State of Oregon
Department of
Environmental
Quality

Application for a

Solid Waste Beneficial Use Determination

DEQ USE ONLY – BUSINESS OFFICE
Date Received: 12/15/2014
Amount Received: $2000.00
Check No.: 252368
Deposit No.: 31053
Forward confirmation of fee payment for:
Eastern Region to DEQ, The Dalles
Northwestern Region to DEQ-NWR, Portland
Western Region to DEQ, Salem

A. REFERENCE INFORMATION *(Please type or print clearly.)*

Oregon Department of Transportation		Oregon Department of Transportation		
Legal name of applicant		Business name of applicant if different		
3500 Stewart Parkway		Roseburg	Oregon	97470
Mailing address		City	State	Zip
541-957-3594	541-430-4916	kenny.l.camp@odot.state.or.us		
Phone	Mobile	E-mail	Fax	

Oregon Department of Transportation				
Generator of solid waste (may be same as applicant)				
100 Antelope Road		White City	Oregon	97503
Mailing address		City	State	Zip
541-957-3594	541-430-4916	kenny.l.camp@odot.state.or.us		
Phone	Mobile	E-mail	Fax	

B. TYPE OF BENEFICIAL USE DETERMINATION REQUESTED

Beneficial Use Determination applications are categorized based on the type of information and potential amount of work required by DEQ staff to review application materials and render a decision. A tiered review and fee system has been established in rule. The tiers are:

Tier 1 For a beneficial use of a solid waste that does not contain hazardous substances significantly exceeding the concentration in a comparable raw material or commercial product and that will be used in a manufactured product;

Tier 2 For a beneficial use of a solid waste that contains hazardous substances significantly exceeding the concentration in a comparable raw material or commercial product, or involves application on the land;

Tier 3 For a beneficial use of a solid waste that requires research, such as a literature review or risk assessment, or for a demonstration project to demonstrate compliance with this rule.

I am applying for a ☐ Tier 1 ☒ Tier 2 ☐ Tier 3 determination.

C. DOES THIS PROPOSED BENEFICIAL USE INVOLVE LAND APPLICATION OF ANY MATERIAL?

☒ Yes ☐ No

D. SIGNATURE

I hereby certify by my signature below that the information contained in this application, and the documents I have attached, are true and correct to the best of my knowledge and belief.

Signature of legally authorized representative	Print name	Title	Date
	RICHARD RANDLEMAN	PROJECT LEADER	12/10/2014

E. REQUIRED ATTACHMENTS TO THIS APPLICATION *(For an application to be complete, it must provide the required information for each listed item of the tier which is being applied for.)*

Tier 1

- ☐ A description of the material, manner of generation, and estimated quantity to be used each year;
- ☐ A description of the proposed use;
- ☐ A comparison of the chemical and physical characteristics of the material proposed for use with the material it will replace;
- ☐ A demonstration of compliance with the performance criteria in OAR 340-093-0280 based on knowledge of the process that generated the material, properties of the finished product, or testing; and
- ☐ Any other information that DEQ may require to evaluate the proposal.

Tier 2

- ☐ The information required for a Tier 1 application;
- ☐ Sampling and analysis that provides chemical, physical, and biological characterization of the material and that identifies potential contaminants in the material or the end product, as applicable;
- ☐ A risk screening comparing the concentration of hazardous substances in the material to existing, DEQ approved, risk-based screening level values, and demonstrating compliance with acceptable risk levels;
- ☐ Location or type of land use where the material will be applied, consistent with the risk scenarios used to evaluate risk;
- ☐ Contact information of property owner(s) if this is a site-specific land application proposal, including name, address, phone number, e-mail, site address and site coordinates (latitude and longitude); and
- ☐ A description of how the material will be managed to minimize potential adverse impacts to public health, safety, welfare, or the environment.

Tier 3

- ☐ The information required for a Tier 1 & 2 application;
- ☐ A discussion of the justification for the proposal;
- ☐ An estimate of the expected length of time that would be required to complete the project, if it is a demonstration; and
- ☐ If it is a demonstration project, the methods proposed to ensure safe and proper management of the material.

F. PERFORMANCE CRITERIA *(For all tiers - An application for a beneficial use determination must demonstrate satisfactory compliance with the following performance criteria.)*

The use is productive, including:

- There is an identified or reasonably likely use for the material that is not speculative;
- The use is a valuable part of a manufacturing process, an effective substitute for a valuable raw material or commercial product, or otherwise authorized by DEQ, and does not constitute disposal; and
- The use is in accordance with applicable engineering standards, commercial standards, and agricultural or horticultural practices.

The use will not create an adverse impact to public health, safety, welfare, or the environment, including:

- The material is not a hazardous waste under ORS 466.005;
- Until the time the material is used in accordance with a beneficial use determination, the material will be managed, including any storage, transportation, or processing, to prevent releases to the environment or nuisance conditions;
- Hazardous substances in the material do not significantly exceed the concentration in a comparable raw material or commercial product, or do not exceed naturally occurring background concentrations, or do not exceed acceptable risk levels, including evaluation of persistence and potential bioaccumulation, when the material is managed according to a beneficial use determination.

The use will not result in the increase of a hazardous substance in a sensitive environment.

The use will not create objectionable odors, dust, unsightliness, fire, or other nuisance conditions.

The use will comply with all applicable federal, state, and local regulations.

G. FEES *(Must accompany the application for it to be considered complete)*

☐	Tier 1 beneficial use determination	$1,000
☒	Tier 2 beneficial use determination	$2,000
☐	Tier 3 beneficial use determination	$5,000

Make checks out to: **Oregon DEQ**

Total fees included: $2000.00

H. APPLICATION PROCEDURE

Step 1
Contact a DEQ staff person for assistance with the preparation of the application. DEQ staff will help with: 1) Determination of the eligibility for a beneficial use determination of a particular waste or process; and, 2) If eligible, establish the tier of beneficial use determination review required and associated fee to submit with the application.

Step 2
Mail the original signed application, all attachments, including the fee payment plus one extra copy to the appropriate regional office (see listing below.) Note that DEQ review work will not begin until a complete application packet is received. Incomplete applications may be returned. DEQ recommends the applicant keep a full copy of all application materials to guard against possible loss in transit.

Step 3
DEQ will contact the applicant, acknowledging receipt of the application, and will identify the staff person assigned to carryout the review. This staff person will contact the applicant if any additional information is needed.

Region	Counties Served	Address & Phone
Eastern Region	Baker, Crook, Deschutes, Gilliam, Grant, Harney, Hood River, Jefferson, Klamath, Lake, Malheur, Morrow, Sherman, Umatilla, Union, Wallowa, Wasco, and Wheeler	Eastern Region Department of Environmental Quality 400 E Scenic Drive, Ste 2.307 The Dalles, OR 97058 (541) 298-7255 ext. 221
Northwest Region	Clatsop, Clackamas, Columbia, Multnomah, Tillamook, and Washington	Northwest Region DEQ Solid Waste Programs 2020 SW Fourth Ave. Ste 400 Portland, OR 97201 (503) 229-5353
Western Region	Benton, Coos, Curry, Douglas, Jackson, Josephine, Lane, Lincoln, Linn, Marion, Polk, and Yamhill	Western Region DEQ Solid Waste Programs 750 Front St. NE Suite 120 Salem, OR 97301 (503) 378-5047

Level 2
Preliminary Site Investigation

OR 62: Corridor Solution Unit 2 Phase 1
Key#13994
Medford, Jackson County

September, 2011

Prepared by: Kenny Camp

Oregon Department of Transportation
Region 3 Environmental Unit
Hazardous Materials Group
3500 Stewart Parkway
Roseburg, OR 97470

Executive Summary

ODOT Geo/Environmental HazMat Group performed a Level 2 Preliminary Site Investigation (PSI) for the Project Site OR 62: Corridor Unit 2 Phase 1. ODOT HazMat concludes the following:

- Petroleum-contaminated soils were encountered along the former Medco Haul Road in probe holes, HM-U2P1-01, HM-U2P1-01B, HM-U2P1-01C, HM-U2P1-02B, HM-U2P1-03, HM-U2P1-05, HM-U2P1-14, HM-U2P1-16, HM-U2P1-25 HM-U2P1-26, HM-U2P1-27, HM-U2P1-30, HM-U2P1-31, HM-U2P1-35, and along Hwy 62 at the south end of the Project in probe hole HM-U2P1-36. See Appendix A, Figure-2 Sheets 1-6 for probe hole locations. In addition low level Pesticides were detected below residential levels in probe hole HM-U2P1-09, and surface sample location HM-U2P1-PB, PC and PD which are located along the proposed Airport Access alignment that crosses through the area of the Medco Road Former Orchard. See Appendix A, Figure 2 Sheet 2 for surface sample locations. Soil samples were collected in these locations at an average depth of 0 to 3 feet below ground surface (bgs). Pesticides were detected below Risk based concentration (RBC's) for residential standards. Chromium samples returned above RBC's for residential standards but below industrial standards. It appears that chromium levels are consistent with regional background levels. Options for excavated soils located along the proposed Airport Access alignment through the Medco Road Former Orchard should include placement of excavated soil in accordance with DEQs general conditions to manage these contaminated soils with a soil management plan on to the existing orchard property and not on to ODOT right of way to prevent future liability.
- Concentrations of petroleum contaminated soils located along the Medco Haul Road if excavated will be required to be disposed of at a permitted landfill, encapsulated within the Project or managed under a Solid Waste Letter of Authorization (SWLA) obtained from DEQ.
- The previous Corridor Study identified materials that will require special handling if disposed of during construction, including treated timbers, PCB light ballasts.

Based on the results of this assessment, ODOT HazMat recommends the following actions:

- Petroleum Contaminated soils excavated from the Medco Haul Road during construction will be required to be land filled at a permitted land fill facility, encapsulated with in the Project or managed under a (SWLA) obtained from DEQ.
- Pesticide contaminated soils encountered along the proposed Airport Access alignment should be placed onto the adjacent former Orchard property in accordance with DEQs general conditions to manage these contaminated soils with a soil management plan to prevent ODOT from future liability.
- Special provisions are required to ensure appropriate management of contaminated soils.

As the scope of the Project changes to include additional excavation or right of way acquisition, Addendums to the Project will be provided.

Table of Contents

Appendices

1 Introduction

The Oregon Department of Transportation (ODOT) Region 3 Environmental HazMat Group has conducted a Level 2 Preliminary Site Investigation (PSI) for the Project:

OR62: Corridor Solution Unit 2 Phase 1 Project
Medford, Jackson County
Key#: 13994

This PSI is intended to confirm the presence or absence of potential contamination identified in the HazMat Corridor Study for this Project. The presence of contamination could affect worker safety, property value, and construction costs.

1.1 Site Description

The Project Corridor consists of construction of Highway 62 Bypass which will extend from Highway 62 at the south end of the Medford/Jackson County International Airport north to Vilas Road along the east side of the airport. The project is located in Medford, Oregon, as indicated on Figure 1. Proposed Project Corridor activities include:

- Property Acquisition
- Construction of the new Bypass highway alignment.

1.2 Previous Assessments

In January, 2008, ODOT conducted a Hazardous Materials Corridor Study of the Project Corridor to identify potential sources of contamination that could impact the Project. Findings of the Corridor Study indicated the following areas of concern:

- A Medco Road Former Orchard is located on tax lot 2500 along the northwest boundary of the Project. Oregon Department of Environmental Quality lists the site as an Environmental Cleanup Site (ECSI). Information in the DEQ data base refers to a 59 acre subsection of tax lot 2500. This does not apply to the other 30 acres. The Medco Road Former Orchard site is a 49 acre industrial property located immediately northwest of the Medford Airport in Medford. The site is currently a vacant grassy field. Historical practices at the orchard included the use of agricultural chemicals including herbicides, pesticides, petroleum products, and fertilizers. In order to evaluate the potential for environmental impact, Agate Engineering, INC. conducted a Phase 1 and Phase 2 Environmental Site Assessment (ESA) in May of 2004. Arsenic was detected above Risk Base Concentrations (RBC's) but below background. Lead (Pb) was detected above background, but below appropriate RBC's. Dieldrin was present in soils above residential but below industrial standards. Therefore, risks at the site are managed with the following general conditions: (1.) No installation of wells on the property; (2.) No residential use of the property; (3.) Soil must be managed in accordance with a soil-management plan.
    - A former Medco Log Pond is located on the north eastern portion of the Project.
    - The former Medco Haul Road is located through out the project site.

Therefore, the HazMat Group recommended collecting subsurface samples at these locations to confirm the presence of contamination and develop associated project cost estimates.

1.3 DEQ File Review

ODOT HazMat conducted a review of DEQ files for select sites which the Corridor Study identified as having the potential to impact the Project Corridor. Details of these file reviews are set forth below:

- Medco Road Former Orchard– DEQ files indicate that this is an ECSI listed site. Agate Engineering, INC. conducted a Phase 1 and Phase 2 Environmental Site Assessment (ESA) in May of 2004. Arsenic was detected above Risk Base Concentrations (RBC's) but below background. Lead (Pb) was detected above background, but below appropriate RBC's. Dieldrin was present in soils above residential but below industrial standards. Therefore, Risks at the site are managed with the following general conditions: (1.) No installation of wells on the property; (2.) No residential use of the property; (3.) Soil must be managed in accordance with a soil-management plan.

2 Preliminary Site Assessment Activities

2.1 Scope of Work

ODOT HazMat prepared a Work Plan dated May 31st 2011 for the PSI activities, which included 2 surface soil samples and 39 probe holes. Appendix C contains the Work Plan which ODOT did not modify in the field.

ODOT prepared a site-specific Health and Safety (HASP) plan, a copy of which is available upon request. ODOT requested utility line marking through Oregon's Call-Before-You-Dig program.

2.2 Field Activities

Kenny Camp, ODOT Region 3 HazMat Coordinator oversaw the PSI assessment activities and collected soil samples from June 6th 2011 through June 8th 2011.

2.2.1 Surface Soil Samples

ODOT HazMat collected 2 surface soil samples in the area located south east of the former scale shack located along the Medco Haul Road at approximately 2 feet bgs, as shown in Appendix A, Figure 2 on sheet 2. Field staff collected the soil samples using a decontaminated steel shovel and screened them using a PID and the sheen method. Soil samples were collected in laboratory-prepared containers, labeled, placed in a cooler with ice and transported under chain-of-custody protocol to Pace Analytical (Pace) in Seattle, Washington for analysis.

2.2.2 Test Pits

ODOT HazMat did not excavate test pits.

2.2.3 Soil Borings

First Strike Environmental (FSE) advanced 39 probe hole borings with a Geo-Probe push probe sampling system and collected soil samples continuously in 3-foot long, disposable acetate liners. See Appendix A, Figure 2 Sheets 1-6 for probe hole locations. ODOT HazMat screened the soil samples using a PID meter, sheen method and emitted odor to select soil samples for laboratory analysis. Soil samples were collected in laboratory-prepared containers, labeled, placed in a cooler with ice and transported under chain-of-custody protocol to Pace Analytical for analysis. Appendix D contains boring logs, including geologic descriptions and field screening results.

2.2.4 Ground water Elevation Measurements

ODOT HazMat did not encounter groundwater in any of the probe hole borings. Therefore, it is assumed that the elevation of groundwater throughout the project area is below the bottom elevation of any one boring at the time of advancement.

2.3 Laboratory Analytical Methods

On 6/10/2011 ODOT submitted 86 soil samples to PACE for the following analyses:

- Gasoline range hydrocarbon quantification by NWTPH-Gx (if detected by NWTPH-HCID)
- Diesel range hydrocarbon quantification by NWTPH-Dx (if detected by NWTPH-HCID)
- Volatile Organic Compounds (VOCs) by EPA Method 8260B (if gasoline range hydrocarbons detected)
- Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8270SIM (if diesel range hydrocarbons detected)
- Total metals by EPA RCRA-8 methods
- Pesticides/Herbicides
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082

On 6/10/2011 ODOT submitted 2 surface soil samples to Pace Analytical for the following analyses:

- Total metals by EPA RCRA-8 methods
- Petroleum hydrocarbon identification by NWTPH-HCID

3 Results

3.1 Geology and Hydrogeology

3.2 Based on the Probe Hole Logs, soils at the project site consist of approximately 1.5 to 12.0 feet of Fill overlying either Bedrock or approximately 1.5 to 10.0 feet of colluvium and/or alluvium. The Fill generally consisted of Gravelly Sand, Sandy

Gravel and Clay. The Colluvium generally consisted of Clay to Sandy Clay. The Alluvium generally consisted of, Gravel, Sandy Gravel, Clayey Sandy Gravel to Sand, Gravelly Sand, Silty Sand and Clayey Sand. Bedrock consisted of Igneous Intrusive Rock, Sandstone or Mudstone. For a more detailed description and thickness of the soil units along with the depth to bedrock see the attached Probe Hole Logs in Appendix D. In areas where fill is present, bedrock was encountered as shallow as 5.5 feet below the ground surface (bgs) and as deep as 14.2 feet bgs. In areas where fill was not present bedrock was encountered as shallow as 1.5 feet bgs to greater than 12 feet bgs. The probe holes encountered refusal as shallow as 2.0 feet bgs and as deep as 14.2 feet bgs. Drilling refusal was either a result of encountering bedrock or dense alluvium. The probe holes did not encounter ground water. However, ground water is expected to vary based on depth to bedrock, proximity to surface water features and the time of year.

3.3 Analytical Data

Where appropriate, analytical results presented in the following sections are compared to appropriate risk levels and regulatory limits for the contaminants and media of concern.

3.3.1 Soil

Laboratory analyses detected petroleum hydrocarbons at concentrations on the former Medco Haul Road which will require soil if excavated to be disposed of at a certified landfill, encapsulated with in the road base or used on the Project under a SWLA obtained from the DEQ. Elevated levels of metals were found through out the Project. However, these levels are within regional background levels. 4,4 DDD, 4.4-DDE, 4,4 DDT and Dieldrin were detected in the Medco Road Former Orchard below RBC's residential standards. Tables 1, 2 and 3 summarize the target compounds detected in soil samples and Appendix E contains the laboratory analytical data packages. Based on the DEQ ECIS and the detection of low level pesticides, on 8/10/2011 ODOT collected 4 additional soil samples which were shipped to Pace Analytical and analyzed for Pesticides 8081 to confirm or denie the presents of pesticides in the Medco Road Former Orchard. Soil samples were collected from 0 to 2 ft bgs returned below RBC's residential levels.

Based on these results the Petroleum soil contamination appears to be limited to Hwy 62, the Medco Haul Road and low level pesticides with in the Medco Road Former Orchard area. Such contaminated soil will require special handling, if excavated during construction.

3.4 Investigation Derived Waste Management

Investigation derived wastes for this PSI included soil cuttings. This material was stored in labeled drums at the point of generation. Based on lab analysis of soil samples, the soil cuttings were transported to FSE for disposal.

4 Conclusions

ODOT Environmental HazMat Group performed a Level 2 Preliminary Site Investigation (PSI) for the Project Site OR 62: Corridor Unit 2 Phase 1. ODOT HazMat concludes the following:

- Petroleum-contaminated soils were encountered along the former Medco Haul Road in probe holes, HM-U2P1-01, HM-U2P1-01B, HM-U2P1-01C, HM-U2P1-02B, HM-U2P1-03, HM-U2P1-05, HM-U2P1-14, HM-U2P1-16, HM-U2P1-25 HM-U2P1-26, HM-U2P1-27, HM-U2P1-30, HM-U2P1-31, HM-U2P1-35, and along Hwy 62 at the south end of the Project in probe hole HM-U2P1-36. See Appendix A, Figure-2 Sheets 1-6 for probe hole locations. In addition low level Pesticides were detected below residential levels in probe hole HM-U2P1-09, and surface sample location HM-U2P1-PB, PC and PD which are located along the proposed Airport Access alignment that crosses through the area of the Medco Road Former Orchard. See Appendix A, Figure 2 Sheet 2 for surface sample locations. Soil samples were collected in these locations at an average depth of 0 to 3 feet below ground surface (bgs). Pesticides were detected below Risk based concentration (RBC's) for residential standards. Chromium samples returned above RBC's for residential standards but below industrial standards. It appears that chromium levels are consistent with regional background levels. Options for excavated soils located along the proposed Airport Access alignment through the Medco Road Former Orchard should include placement of excavated soil in accordance with DEQs general conditions to manage these contaminated soils with a soil management plan on to the existing orchard property and not on to ODOT right of way to prevent future liability.
- Concentrations of petroleum contaminated soils located along the Medco Haul Road if excavated will be required to be disposed of at a permitted landfill, encapsulated within the Project or managed under a Solid Waste Letter of Authorization (SWLA) obtained from DEQ.
- The previous Corridor Study identified materials that will require special handling if disposed of during construction, including treated timbers, PCB light ballasts.

Based on the results of this assessment, ODOT HazMat recommends the following actions:

- Petroleum Contaminated soils excavated during construction will be required to be land filled at a permitted land fill facility, encapsulated with in the Project or managed under a (SWLA) obtained from DEQ.
- Pesticide contaminated soils encountered along the proposed Airport Access alignment located in the Medco Road Former Orchard should be placed onto the adjacent former Orchard property in accordance with DEQ general conditions to manage these contaminated soils with a soil management plan to prevent ODOT from future liability.
- Special provisions are required to ensure appropriate management of contaminated soils.

5 Limitations

The HazMat Group conducted the work for this PSI report according to generally accepted environmental procedures as outlined in the American Association of State Highway and Transportation Officials (AASHTO) "Hazardous Waste Guide for Project Development" (1990) and the American Society for Testing and Materials (ASTM) "Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process (ASTM E1903-00). This assessment is for internal ODOT use only and may not be relied upon by any other entity without the written permission of an authorized ODOT representative. This PSI is based on the ASTM and AASHTO standards; however, no environmental site assessment can eliminate all uncertainty. Any environmental sample (i.e. soil and groundwater samples) collected for analysis may or may not be representative of general Project Site conditions. The observations, findings, and conclusions in this PSI report are based solely on the Project Site conditions at the time of assessment and do not imply a warrantee or guarantee for the Project Site. Nothing in this PSI report constitutes a legal opinion or service and should not be relied on as such. ODOT is not responsible for the accuracy of information provided by third parties, which may be contained in this PSI report.

6 Signatures of Environmental Professionals

Kenny Camp prepared this PSI Report

Signature _____ Date 9/23/11

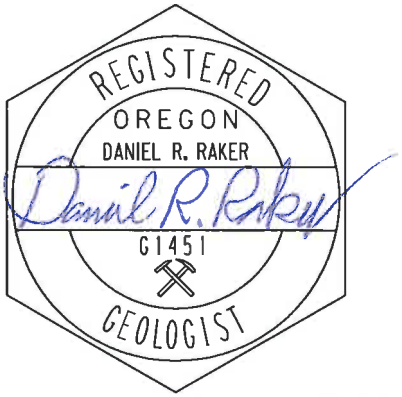
Nicholas Harris conducted a technical review of this PSI Report

Signature _____ Date 9/23/11

Daniel Raker R.G. conducted a corporate review of this PSI Report

Signature _____ Date 9/14/11

Oregon Registered Professional Geologist stamp:

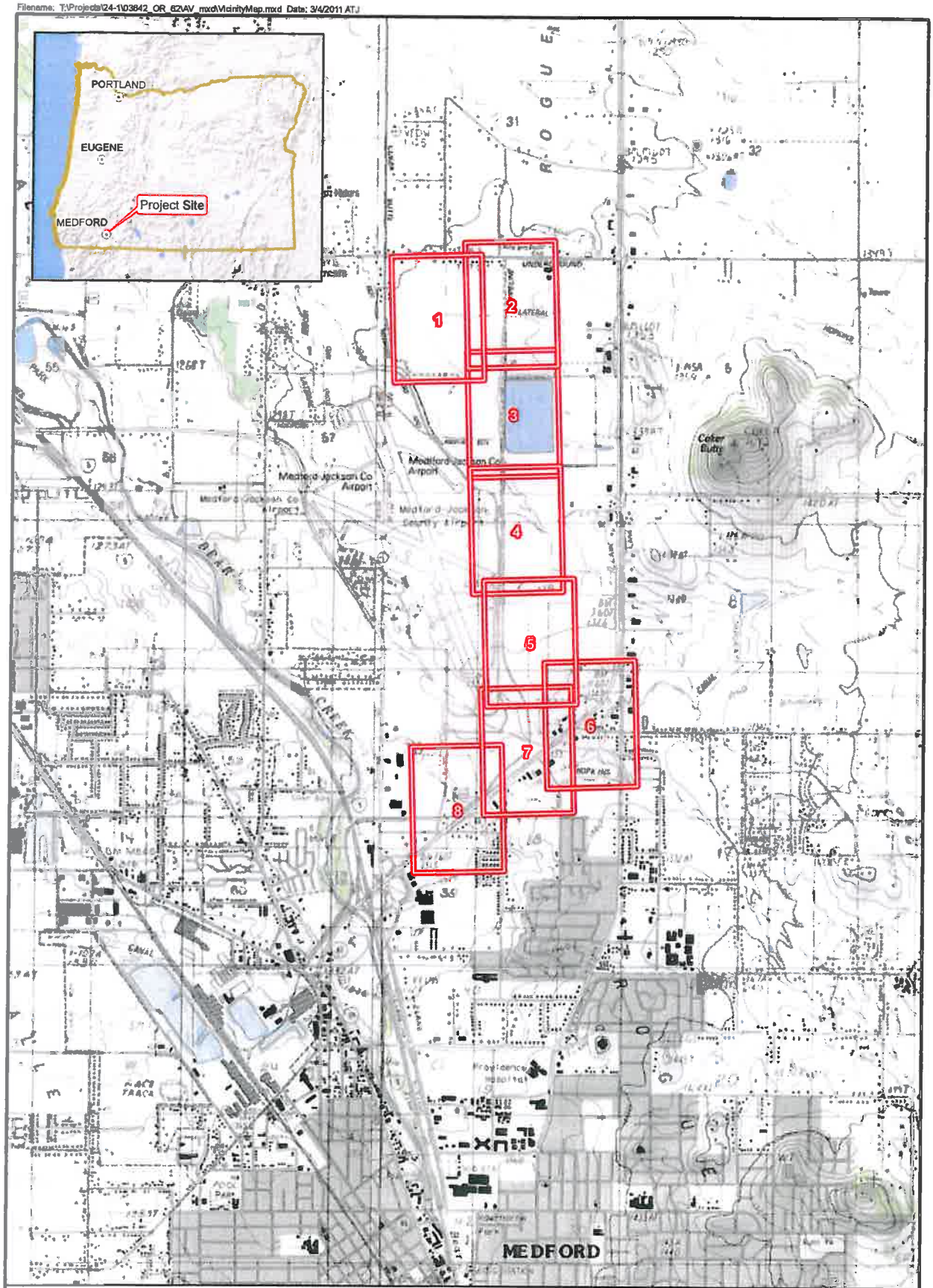


Expires: 6/30/2012

Appendix-A

Figure 1 Project Site Location

Filename: T:\Projects\24-1\03842_OR_62\AV_mxd\VicinityMap.mxd Date: 3/4/2011 ATJ

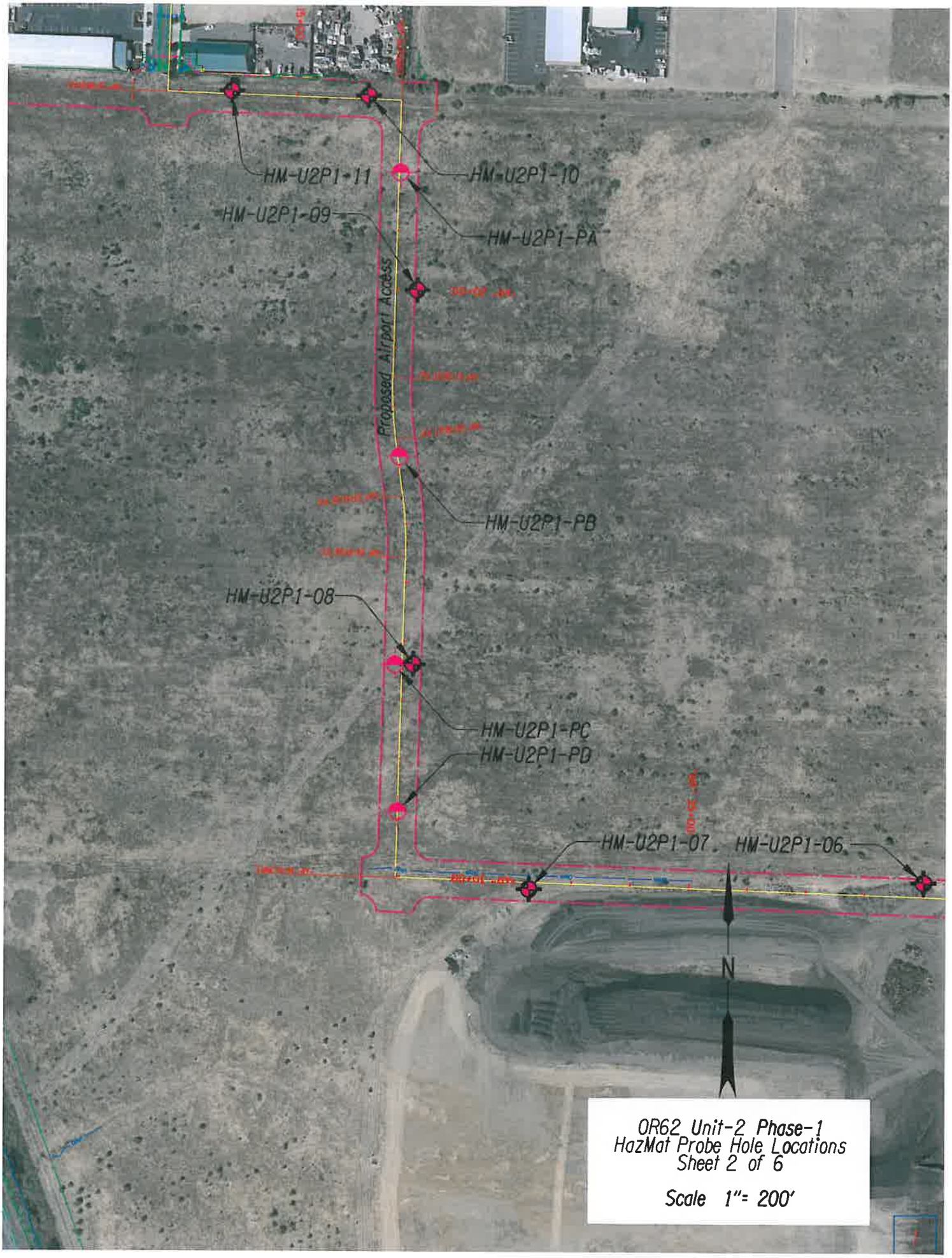


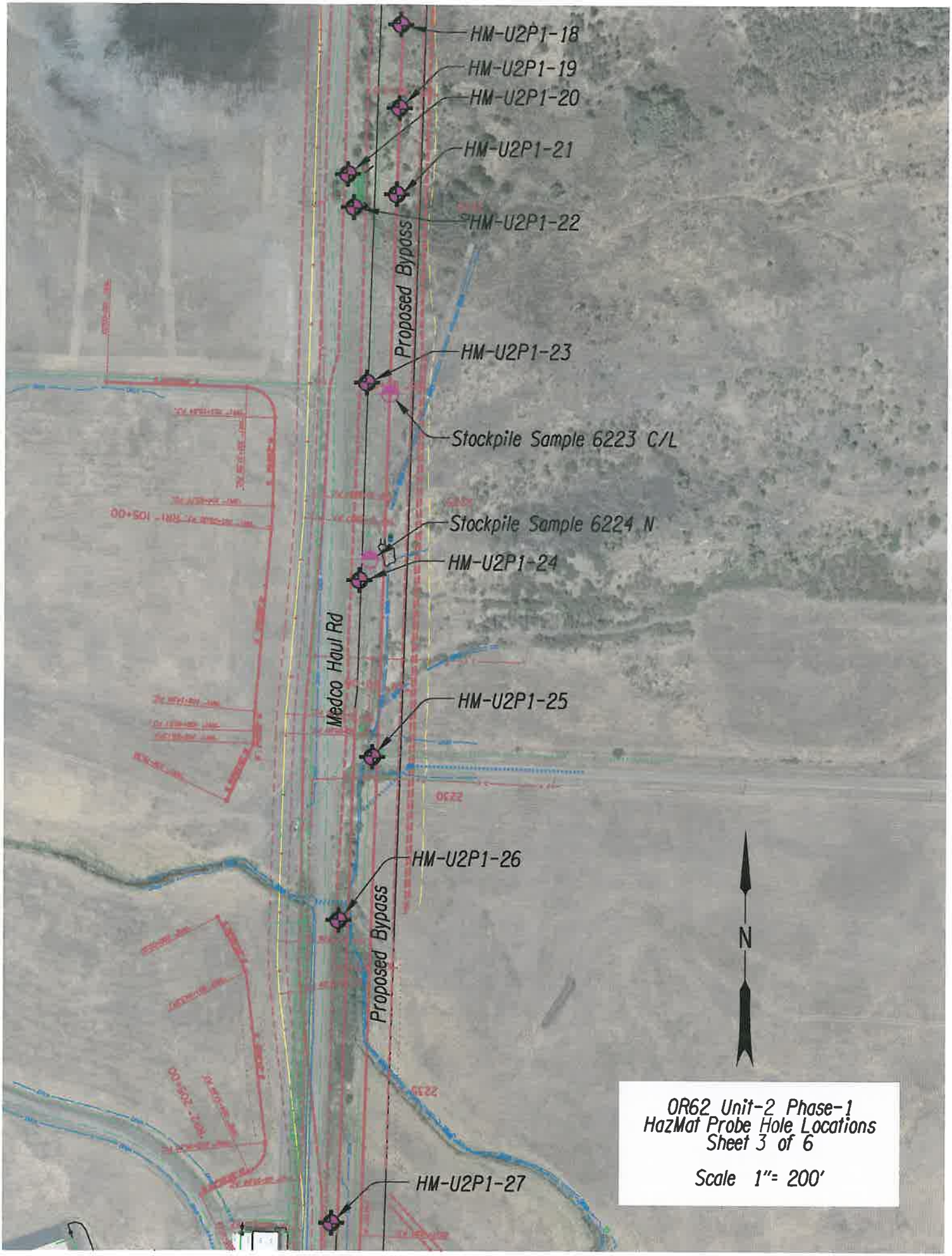
OR 62
Medford, OR

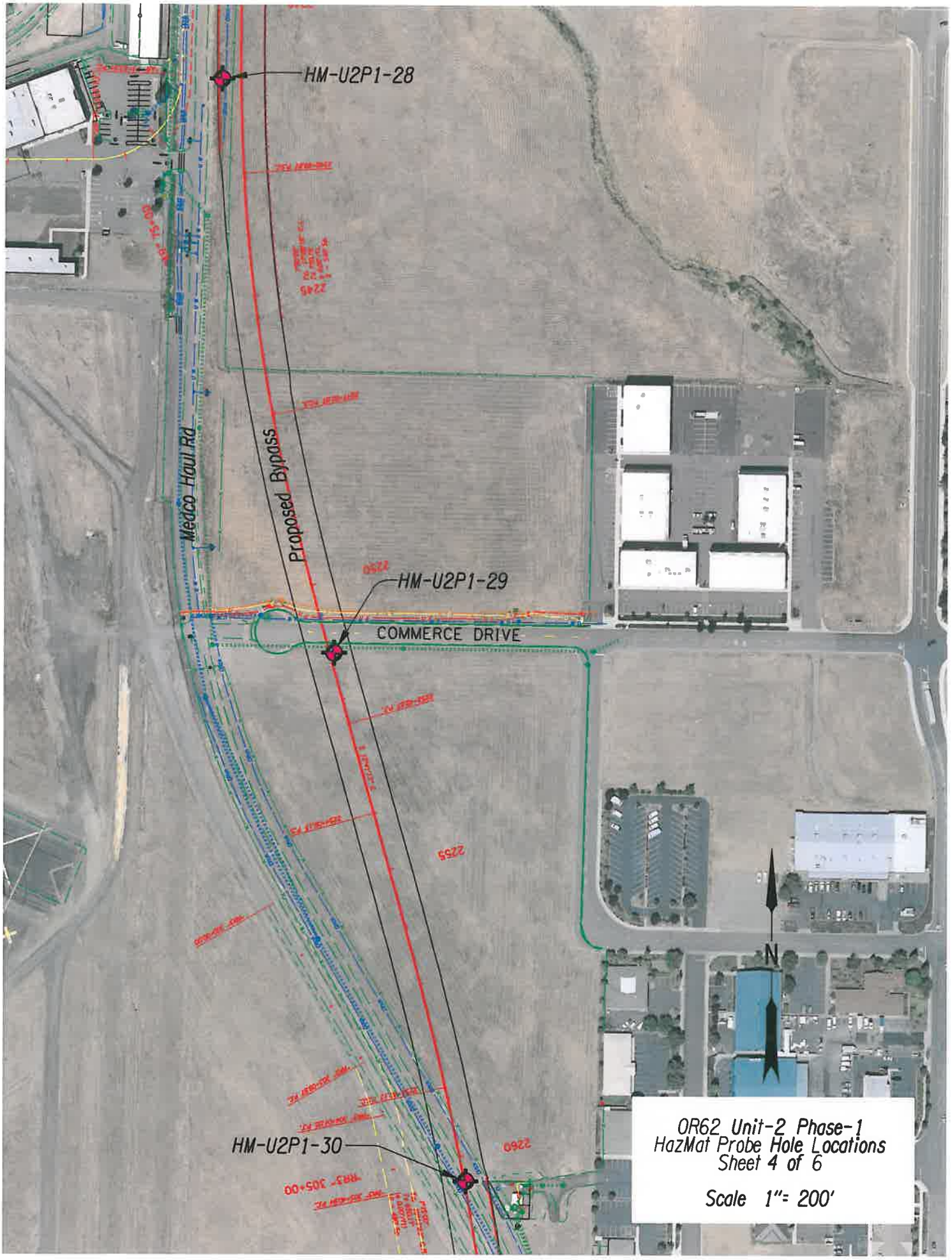
VICINITY MAP

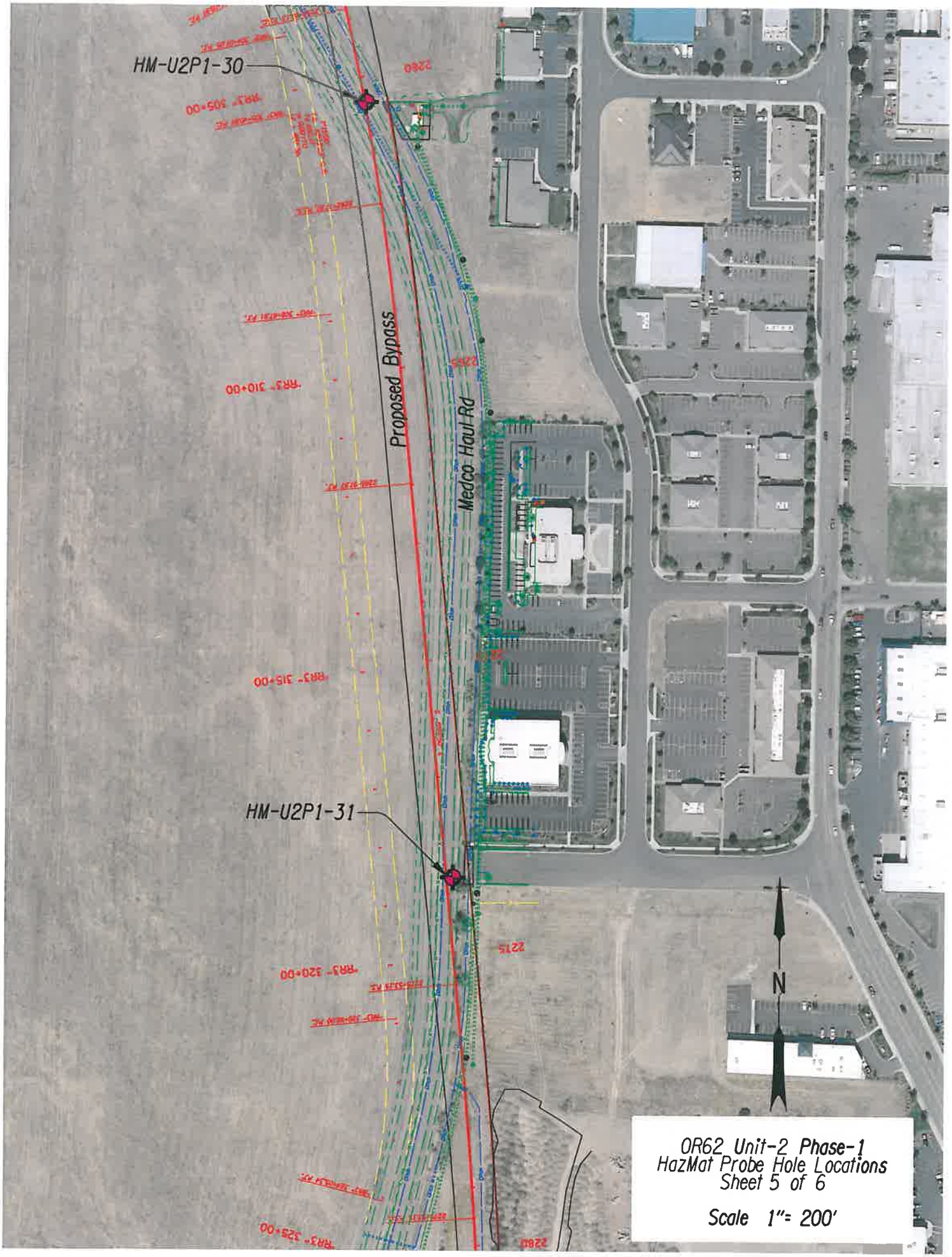
Figure 2 Probe Hole and Sample Location Sheets 1-6

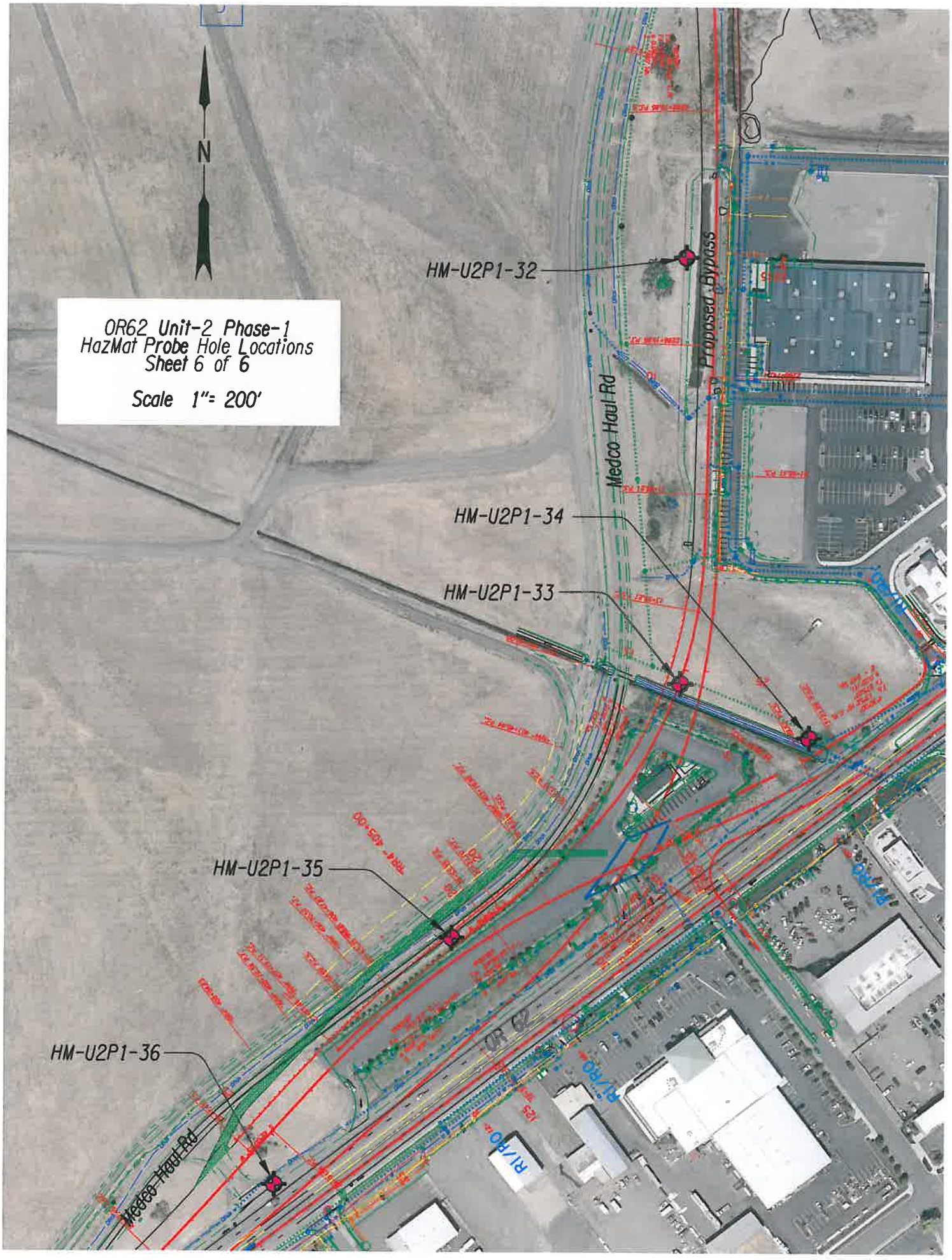

HM-U2P1-01
HM-U2P1-01B
HM-U2P1-01C
HM-U2P1-02
HM-U2P1-02B
HM-U2P1-03
HM-U2P1-04
HM-U2P1-05
HM-U2P1-12
HM-U2P1-13
HM-U2P1-14
HM-U2P1-15
HM-U2P1-16
HM-U2P1-17
Proposed Bypass
Medco Haul Rd
Proposed Bypass
Proposed Airport Access
N
OR62 Unit-2 Phase-1
HazMat Probe Hole Locations
Sheet 1 of 6
Scale 1"= 200'


HM-U2P1-11
HM-U2P1-10
HM-U2P1-09
HM-U2P1-PA
Proposed Airport Access
HM-U2P1-PB
HM-U2P1-08
HM-U2P1-PC
HM-U2P1-PD
HM-U2P1-07
HM-U2P1-06
N
OR62 Unit-2 Phase-1
HazMat Probe Hole Locations
Sheet 2 of 6
Scale 1"= 200'


HM-U2P1-18
HM-U2P1-19
HM-U2P1-20
HM-U2P1-21
HM-U2P1-22
Proposed Bypass
HM-U2P1-23
Stockpile Sample 6223 C/L
Stockpile Sample 6224 N
HM-U2P1-24
Medco Haul Rd
HM-U2P1-25
HM-U2P1-26
Proposed Bypass
N
HM-U2P1-27
OR62 Unit-2 Phase-1
HazMat Probe Hole Locations
Sheet 3 of 6
Scale 1"= 200'


HM-U2P1-28
Medco Haul Rd
Proposed Bypass
HM-U2P1-29
COMMERCE DRIVE
HM-U2P1-30
N
OR62 Unit-2 Phase-1
HazMat Probe Hole Locations
Sheet 4 of 6
Scale 1"= 200'


HM-U2P1-30
HM-U2P1-31
Proposed Bypass
Medco Haul Rd
N
OR62 Unit-2 Phase-1
HazMat Probe Hole Locations
Sheet 5 of 6
Scale 1"= 200'


N
OR62 Unit-2 Phase-1
HazMat Probe Hole Locations
Sheet 6 of 6
Scale 1"= 200'
HM-U2P1-32
HM-U2P1-34
HM-U2P1-33
HM-U2P1-35
HM-U2P1-36
Medco Haul Rd
Proposed Bypass
OR 62
RI/RO
RI/RO
RI/RO
Medco Haul Rd

Appendix-B

Table 1 Soil Analytical Results

Table 1
Soil Analytical Results HCID GX DX
OR 62 Unit-2 Phase-1, Medford

Boring ID#	Depth	NWTPH-HCID			Gx	Dx	
		Gas	Diesel	Oil	Gas	Diesel	Oil
	(Feet bgs)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
6201	0-3	ND	**Detect**	**Detect**	ND	**292**	**849**
6201	3-5.5	ND	ND	ND	NA	NA	NA
6201B	0-3	ND	**Detect**	**Detect**	NA	**256**	**1300**
6201B	4-5	ND	ND	ND	NA	NA	NA
6201B	5-6	ND	ND	ND	NA	NA	NA
6201C	0-3	ND	**Detect**	**Detect**	NA	**546**	**1780**
6202	0-3	ND	ND	ND	NA	NA	NA
6202B	0-3	ND	**Detect**	**Detect**	NA	**243**	**655**
6203	1-2	ND	**Detect**	**Detect**	NA	**181**	**385**
6203	2-3	ND	**Detect**	**Detect**	NA	**129**	**257**
6203	3-6	ND	ND	ND	NA	NA	NA
6203	6-6.5	ND	ND	ND	NA	NA	NA
6205	0-3	ND	**Detect**	**Detect**	NA	**1460**	**2330**
6205	4-5	ND	ND	ND	NA	NA	NA

ND Compound not detected above laboratory detection limit
NA Sample not analyzed for that parameter
Analytes not listed in the table were not detected above the laboratory detection limit

Soil Analytical Results HCID GX DX
OR 62 Unit-2 Phase-1, Medford

Boring ID#	Depth	NWTPH-HCID			Gx	Dx	
		Gas	Diesel	Oil	Gas	Diesel	Oil
	(Feet bgs)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
6205	5-6	ND	ND	ND	NA	NA	NA
6205	8-9	ND	ND	ND	NA	NA	NA
6207	0-2.5	ND	ND	ND	NA	NA	NA
6212	0-3	ND	ND	ND	NA	NA	NA
6213	4-5	ND	ND	ND	NA	NA	NA
6213	5-6	ND	ND	ND	NA	NA	NA
6214	0-3	ND	**Detect**	**Detect**	NA	**324**	**937**
6214	4-5	ND	ND	ND	NA	NA	NA
6214	5-6	ND	ND	ND	NA	NA	NA
6214	8-9	ND	ND	ND	NA	NA	NA
6215	0-3	ND	ND	ND	NA	NA	NA
6216	0-3	ND	**Detect**	**Detect**	NA	**208**	**427**
6216	5-6	ND	ND	ND	NA	NA	NA
6216	7-8	ND	ND	ND	NA	NA	NA
6217	2-3	ND	ND	ND	NA	NA	NA

ND Compound not detected above laboratory detection limit
NA Sample not analyzed for that parameter
Analytes not listed in the table were not detected above the laboratory detection limit

Soil Analytical Results HCID GX DX
OR 62 Unit-2 Phase-1, Medford

Boring ID#	Depth	NWTPH-HCID			Gx	Dx	
		Gas	Diesel	Oil	Gas	Diesel	Oil
	(Feet bgs)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
6217	4-5	ND	ND	ND	NA	NA	NA
6218	7-8	ND	ND	ND	NA	NA	NA
6219	0-3	ND	ND	ND	NA	NA	NA
6219	3-6	ND	ND	ND	NA	NA	NA
6220	5-6	ND	ND	ND	NA	NA	NA
6220	8-9	ND	ND	ND	NA	NA	NA
6222	0-3	ND	ND	ND	NA	NA	NA
6222	4-5	ND	ND	ND	NA	NA	NA
6222	5-6	ND	ND	ND	NA	NA	NA
6223	6-9	ND	ND	ND	NA	NA	NA
6224	3-6	ND	ND	ND	NA	NA	NA
6224	5.5-6.5	ND	ND	ND	NA	NA	NA
6225	0-3	ND	**Detect**	**Detect**	NA	**460**	**1230**
6225	3-5	ND	ND	ND	NA	NA	NA
6226	0-3	ND	**Detect**	**Detect**	NA	**131**	**684**

ND Compound not detected above laboratory detection limit
NA Sample not analyzed for that parameter
Analytes not listed in the table were not detected above the laboratory detection limit

Soil Analytical Results HCID GX DX
OR 62 Unit-2 Phase-1, Medford

Boring ID#	Depth	NWTPH-HCID			Gx	Dx	
		Gas	Diesel	Oil	Gas	Diesel	Oil
	(Feet bgs)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
6226	5-6	ND	ND	ND	NA	NA	NA
6227	0-3	ND	**Detect**	**Detect**	NA	**22.2**	**114**
6227	4-5	ND	ND	ND	NA	NA	NA
6227	5-6	ND	ND	ND	NA	NA	NA
6228	0-3	ND	ND	ND	NA	NA	NA
6228	4-5	ND	ND	ND	NA	NA	NA
6229	4-5	ND	ND	ND	NA	NA	NA
6230	0-3	ND	**Detect**	**Detect**	NA	**151**	**925**
6230	4-5	ND	ND	ND	NA	NA	NA
6231	0-3	ND	**Detect**	**Detect**	NA	**29.3**	**296**
6233	0-3	ND	ND	ND	NA	NA	NA
6234	0-3	ND	ND	ND	NA	NA	NA
6235	0-3	ND	**Detect**	**Detect**	NA	**871**	**1690**
6235	3-6	ND	ND	ND	NA	NA	NA
6235	6-9	ND	ND	ND	NA	NA	NA
6236	0-3	ND	**Detect**	**Detect**	NA	**193**	**2960**

ND Compound not detected above laboratory detection limit
NA Sample not analyzed for that parameter

Table 2
Soil Analytical Results Metals
OR 62 Unit-2 Phase-1, Medford

Boring ID#	Depth	Total RCRA Metals							
		Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
	(Feet bgs)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Stockpile6223 C/L	2	ND	279	ND	56.4	7.4	ND	ND	ND
Stockpile6224 N	2	ND	619	ND	51.3	6.8	ND	ND	ND
6204	0-2	ND	172	ND	143	8.9	ND	ND	ND
6205	8-9	ND	83.7	ND	96.7	23.5	ND	ND	ND
6206	2-3	ND	103	ND	35.6	4.4	ND	ND	ND
6207	0-2.5	ND	272	ND	70.7	16.3	ND	ND	ND
6208	0-3	ND	271	ND	78	11.1	ND	ND	ND
6210	3-4	ND	242	ND	74.3	ND	ND	ND	ND
6211	4-5	ND	95.6	ND	62.3	ND	ND	ND	ND
6212	3-4.3	ND	90	ND	76.9	ND	ND	ND	ND
6216	5-6	ND	82	ND	75.7	ND	ND	ND	ND
6218	3-6	ND	106	ND	93.1	ND	ND	ND	ND
6220	0-3	ND	86.3	ND	31.9	10	ND	ND	ND
6221	3-4.3	ND	313	ND	64	15.2	ND	ND	ND

ND Compound not detected above laboratory detection limit
NA Sample not analyzed for that parameter

Table 2
Soil Analytical Results Metals
OR 62 Unit-2 Phase-1, Medford

Boring ID#	Depth	Total RCRA Metals							
		Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
	(Feet bgs)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
6223	0-3	ND	256	ND	35.7	11.5	ND	ND	ND
6226	5-6	ND	175	ND	82.6	7.6	ND	ND	ND
6229	0-3	ND	137	ND	30.8	5.5	ND	ND	ND
6230	4-5	ND	345	ND	29.6	6.6	ND	ND	ND
6232	3-6	ND	231	ND	36.9	5.3	ND	ND	ND
6234	3-4	ND	98.6	ND	30.7	21.4	ND	ND	ND
6236	4-5	ND	85.2	ND	47.2	4.2	ND	ND	ND
DEQ Residential Direct Contact RBC's		0.39	15,000	18,000	38*	400	NA	390	23
DEQ Construction Worker RBC's		13	60,000	>Max	4,800*	800	NA	1,500	93

ND Compound not detected above laboratory detection limit
NA Sample not analyzed for that parameter
Analytes not listed in the table were not detected above the laboratory detection limit
DEQ RBC's are the Risk Based Concentrations published by DEQ on their web site, current as of the publication date for this report
*RBC provided is for Chromium VI, which is a lower value than the Chromium III RBC.

Table 3
Soil Analytical Results
OR 62 Unit-2 Phase-1, Medford
SVOCs / PAHs

		Polycyclic Aromatic Hydrocarbons								Semi Volatile Organic Compounds
Boring ID#	Depth	2-Methylnapthalen	Chrysene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Phenanthtrene	Pyrene	Fluoranthene	Benzo(a)pyrene	Bis(2-Ethylhexyl)phthalate
	(feet bgs)	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
6201	0-3	ND	ND	ND	ND	ND	ND	ND	ND	**800**
6202B	0-3	**8.5**	**28.5**	**7.7**	**9.1**	**19.4**	**24.7**	ND	ND	ND
6212	0-3	ND	ND	ND	ND	ND	ND	ND	ND	ND
6213	0-3	ND	ND	ND	ND	ND	ND	ND	ND	ND
6215	3-4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
6221	0-3	ND	ND	ND	ND	ND	ND	**12.2**	ND	ND
6222	11-12	ND	ND	ND	ND	ND	ND	ND	ND	ND
6230	0-3	ND	**30.7**	**13.3**	**13.4**	**14.3**	**12.3**	ND	**8.8**	ND
6231	0-3	ND	**23**	**8.4**	**14.5**	ND	**14.5**	ND	**9.4**	ND
6235	0-3	ND	**29.8**	**13.6**	**10.6**	**13.8**	**17.4**	ND	**16.4**	ND
DEQ Residential Direct Contact RBCs		310,000*	15,000	150	NA	NA	1,700,000	2,300,000	15	35,000
DEQ Construction Worker RBCs		4,100,000*	2,100,000	21,000	NA	NA	6,700,000	8,900,000	21,000	1,200,000

ND Compound not detected above laboratory detection limit
NA Sample not analyzed for that parameter
DEQ RBCs are the Risk Based Concentrations published by DEQ on their web site, current as of the publication date for this report (* EPA Preliminary Remediation Goals used where DEQ RBCs were not available).

Table includes only detect results: (for complete analytical results including non detected see analytical results in (Appendix C)

Table 4

Soil Analytical Results Herbicide and Pesticides
OR 62 Unit-2 Phase-1, Medford

Boring # (Lab ID#)	Depth	Chlorinated Herbicides	Organochloride Pesticides (ug/kg)				
	(feet bgs)	ug/kg	Total Pesticide	4,4'-DDE	4,4"-DDD	4,4'-DDT	Dieldrin
6206 (258066020)	1-2	Non Detect	NA	NA	NA	NA	NA
6208 (258066023)	0-3	Non Detect	NA	NA	NA	NA	NA
6208 (258066024)	4-5	Non Detect	NA	NA	NA	NA	NA
6209 (258066025)	0-3	NA	**Detect**	9.46	ND	ND	ND
6209 (258066026)	3-4	Non Detect	NA	NA	NA	NA	NA
6210 (258066027)	0-3	Non Detect	NA	NA	NA	NA	NA
6211 (258066029)	0-3	Non Detect	NA	NA	NA	NA	NA
HM-U2P1-PA	0-2	NA	ND	ND	ND	ND	ND
HM-U2P1-PB	0-2	NA	**Detect**	15.7	ND	ND	ND
HM-U2P1-PC	0-2	NA	**Detect**	302	9.27	9.98	19.5
HM-U2P1-PD	0-2	NA	**Detect**	16.9	ND	ND	ND
DEQ Residential Direct Contact RBCs				1,700	2,400	1,700	30
DEQ Construction Worker RBCs				58,000	83,000	58,000	1,000

ND Compound not detected above laboratory detection limit
NA Sample not analyzed for that parameter
DEQ RBCs are the Risk Based Concentrations published by DEQ on their web site, current as of the publication date for this report
Residential RBCs provide the most conservative value available, Construction Worker RBCs are directly applicable to activities at the site.
Table includes only detect results: (for complete analytical results including non detects see analytical results in (Appendix C)

Table 5
Soil Analytical Results PCBs EPA Method 8082
OR 62 Unit-2 Phase-1, Medford

Boring ID#	Depth	PCB1016	PCB1221	PCB1232	PCB1242	PCB1248	PCB1254	PCB1260
	(Feet-bgs)	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
6205	0-3	ND	ND	ND	ND	ND	ND	ND
6216	0-3	ND	ND	ND	ND	ND	ND	ND
6235	0-3	ND	ND	ND	ND	ND	ND	ND

ND Compound not detected above laboratory detection limit

Appendix C

Work Plan

Oregon Department of Transportation
HazMat Work Plan
OR 62 Unit-2 Phase-1
Medford, Oregon
Key Number: 13994

Prepared by Kenny Camp, on May 31st 2011

1. Introduction

The goal of this work is to identify potential contamination associated with the OR 62 Unit-2 Phase-1 Project. Site Activities
ODOT will conduct subsurface sampling at the locations indicated on the attached Site Plan, as follows:

- Collect 2 surface soil samples from 24 inches below grade and submit them for the analyses listed in Section 3
- Advance 39 soil borings to approximately 9 feet below ground surface (bgs) using a Geo-Probe drill rig.
- Collect subsurface soil samples every 3 feet below grade using 3-foot long vinyl acetate core liners.
- Screen soil samples using a photo-ionization detector (PID) / soil sheening / visual / odor.
- Select soil samples for laboratory analysis based on field screening/ specific depth and submit for analyses listed in Section 3.

Standard operating procedures for these activities are attached to the Generic HASP.

2. Sample Analysis

ODOT will submit soil samples for the following laboratory analyses:

- Herbicides by EPA Method 8181, PCBs by 8082,.
  NWTPH-HCID; NWTPH-Gx and/or –Dx (if HCID positive); PAHs by 8270SIM (if Dx positive); VOCs by 8260B (if Gx positive), RCRA Metals 7000.

3. Personnel Requirements

Proposed Site activities will require a contract drill crew and at least one fully trained ODOT HazMat specialist. A Limited Trained Buddy or additional HazMat Specialist will be required for groundwater sampling.

Appendix D

Boring Logs

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-01**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22** (OR62)	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: On Medco Haul Rd.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1313.6 ft**
Start Date **June 6, 2011**	End Date **June 6, 2011** / Total Depth **6.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil Driving Resistance / Rock Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	50			P- 1 (0.0-3.0) From (0'-0.6') AC. From (0.6'-1.2') Base Rock. From (1.2'-3.0') Sandy CLAY, CL; dark brown, low plasticity, moist. Colluvium. Sample submitted for lab test = 6201 (0'-3')	**0.0 - 0.6** **AC** **0.6 - 1.2** **Base Rock** **1.2 - 3.5** **Sandy CLAY, CL; dark brown, low plasticity, moist; (Colluvium)**		Drilling Method: 1"ID Push Probe (0'-6') (P-1) PID= 0 Sheen= Slight Odor= Yes	
	P2	84			P- 2 (3.0-5.5) From (3.0'-3.5') Sandy CLAY, CL; dark brown, low plasticity. moist. Colluvium. From (3.5'-5.5') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6201 (3'-.5.')	**3.5 - 6.0** **Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		(P-2) PID= 0 Sheen= Yes Odor= Yes ← Bedrock Contact 3.5'	
5	P3	100			P- 3 (5.5-6.0) Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. (6.0) Bottom of hole.			(P-3) PID= 0 Sheen= No Odor= No	
10								Backfilled with; Bentonite Chips (6'-0.5') AC Cold Mix (0.5'-0')	
15									

ODOT DRILL LOG 62-U2-P1-HAZMAT.GPJ ODOT_MAN.GDT 09/03/11

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-01B**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: On Medco Haul Rd.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1313.4 ft**
Start Date **June 6, 2011**	End Date **June 6, 2011** / Total Depth **6.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil: Driving Resistance / Rock: Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	43			P- 1 (0.0-3.0) From (0'-0.5') AC. From (0.5'-1.2') Base Rock. From (1.2'-3.0') Gravelly SAND with some silt, SP-SM; brown, low plasticity, damp. Fill. Sample submitted for lab test = 6201B (0'-3')	**0.0 - 0.5** **AC** **0.5 - 1.2** **Base Rock** **1.2 - 3.0** **Gravelly SAND with some silt, SP-SM; brown, low plasticity, damp; (Fill)**		Drilling Method: 1"ID Push Probe (0'-6') (P-1) PID= 0 Sheen= Yes Odor= Yes	
	P2	100			P- 2 (3.0-6.0) From (3.0'-5.7') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (5.7'-6.0') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6201B (4'-5') Sample submitted for lab test = 6201B (5'-6') (6.0) Bottom of hole.	**3.0 - 5.7** **CLAY, CH; dark brown, medium plasticity, moist; (Colluvium)** **5.7 - 6.0** **Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		(P-2) PID= 0 Sheen= No Odor= Slight Bedrock Contact 5.7' Backfilled with; Bentonite Chips (6'-0.5') AC Cold Mix (0.5'-0')	
5									
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No. **HM-U2P1-01C**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No. **PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No. **17188**
Hole Location Northing:	Easting:	Start Card No.
Equipment **(Geoprobe) Hole Location: On Medco Haul Rd.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev. **1313.3 ft**
Start Date **June 6, 2011**	End Date **June 6, 2011** / Total Depth **5.8 ft**	Tube Height

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type. No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	53			P- 1 (0.0-3.0) From (0'-0.5') AC. From (0.5'-1.5') Base Rock. From (1.5'-3.0') Gravelly SAND with some silt, SP-SM; brown, low plasticity, damp. Fill. Sample submitted for lab test = 6201C (0'-3')	**0.0 - 0.5** **AC** **0.5 - 1.5** **Base Rock** **1.5 - 3.0** **Gravelly SAND with some silt, SP-SM; brown, low plasticity, damp; (Fill)**		Drilling Method: 1"ID Push Probe (0'-5.8') (P-1) PID= 0 Sheen= Yes Odor= Yes	
	P2	14			P- 2 (3.0-5.8) From (3.0'-5.5') No recovery, gravel in tip of shoe. Colluvium. From (5.5'-5.8') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive.	**3.0 - 5.5** **CLAY, CH; (Colluvium)**		Driller notes; soft from (3'-5') Driller notes; hard at 5.5'.	
5								← Bedrock contact 5.5'	
					(5.8) Bottom of hole.	**5.5 - 5.8** **Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		Backfilled with; Bentonite Chip (5.8'-0.5') AC Cold Mix (0.5'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-02**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: In field east of Medco Haul Rd.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1311.5 ft**
Start Date **June 6, 2011** End Date **June 6, 2011**	Total Depth **4.1 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	50			P- 1 (0.0-3.0) CLAY, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6202 (0'-3')	**0.0 - 3.1 CLAY, CH; dark brown, medium plasticity, moist; (Colluvium)**		Drilling Method: 1"ID Push Probe (0'-4.1') (P-1) PID= 0 Sheen= No Odor= No (P-1) PID= 0 Sheen= No Odor= No	
	P2	80			P- 2 (3.0-4.1) From (3.0'-3.1') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (3.1'-4.1') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. (4.1) Bottom of hole.	**3.1 - 4.1 Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		← Bedrock contact 3.1'. Backfilled with; Bentonite Chips (4.3'-0')	
5									
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-02B**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22** (OR62)	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe)** **Hole Location: On Medco Haul Rd.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1314.1 ft**
Start Date **June 6, 2011**	End Date **June 6, 2011** Total Depth **6.4 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	50			P- 1 (0.0-3.0) From (0'-0.5') AC. From (0.5'-1.5') Base Rock. From (1.5'-3.0') Sandy Gravel with some silt, GP; brown, nonplastic, damp. Fill. Sample submitted for lab test = 6202B (0'-3')	**0.0 - 0.5 AC**		Drilling Method: 1"ID Push Probe (0'-6.4') (P-1) PID= 0 Sheen= Yes Odor= Yes	
						0.5 - 1.5 Base Rock			
						1.5 - 3.1 Sandy Gravel with some silt, GP; brown, nonplastic, damp; (Fill)		Driller notes; soft from (3.1'-5.8')	
	P2	10			P- 2 (3.0-6.0) Low Recovery, only gravel from upper fill, gravel in tip of shoe.	**3.1 - 5.8 CLAY, CH; (Colluvium)**		(P-2) PID= 0 Sheen= No Odor= No	
5								Driller notes; hard at 5.8'.	
	P3	100			P- 3 (6.0-6.4) Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. (6.4) Bottom of hole.	**5.8 - 6.4 Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		← Bedrock Contact 5.8'.	
10								Backfilled with; Bentonite Chip (6.4'-0.5') AC Cold Mix (0.5'-0')	
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-03**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: On Medco Haul Rd.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1316.4 ft**
Start Date **June 6, 2011**	End Date **June 6, 2011** Total Depth **6.5 ft**	Tube Height	

Test Type

"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil Driving Resistance / Rock Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	70			P- 1 (0.0-3.0) From (0'-0.5') AC. From (0.5'-1.5') Base Rock. From (1.5'-3.0') Sandy Gravel to Gravelly SAND, GP, SP; brown, nonplastic, damp. Fill. Sample submitted for lab test = 6203 (1'-2') Sample submitted for lab test = 6203 (2'-3')	**0.0 - 0.5 AC** **0.5 - 1.5 Base Rock** **1.5 - 5.0 Sandy Gravel to Gravelly SAND, GP, SP; brown, nonelastic, damp; (Fill)**		Drilling Method: 1"ID Push Probe (0'-6.5') (P-1) PID= 0 Sheen= Yes Odor= Yes	
	P2	60			P- 2 (3.0-6.0) From (3.0'-5.0') Sandy Gravel to Gravelly SAND, GP, SP; brown, nonplastic, damp. Fill. From (5.0'-6.0') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6203 (3'-6')			(P-2) PID= 0 Sheen= No Odor= Slight Driller notes; soft from (5'-6.3')	
5						**5.0 - 6.3 CLAY, CH; dark brown, medium plasticity, moist; (Colluvium)**		(P-3) PID= 0 Sheen= No Odor= No ← Bedrock Contact 6.3'.	
	P3	100			P- 3 (6.0-6.5) From (6.0'-6.3') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (6.3'-6.5') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6203 (6'-6.5') (6.5) Bottom of hole.	**6.3 - 6.5 Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		Backfilled with; Bentonite Chip (6.4'-0.5') AC Cold Mix (0.5'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

			Hole No. **HM-U2P1-04**
Project **OR62 Corridor Solutions Unit-2 Phase-1**		Purpose **Level-2 HazMat Investigation**	E.A. No. **PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**		County **Jackson**	Key No. **17188**
Hole Location Northing:	Easting:		Start Card No.
Equipment **(Geoprobe) Hole Location: In field east of Medco Haul Rd.**		Driller **FSE Wes Harper MW# 10528**	Bridge No.
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**		Recorder **Dan Raker**	Ground Elev. **1312.1 ft**
Start Date **June 6, 2011**	End Date **June 6, 2011**	Total Depth **2.0 ft**	Tube Height

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil Driving Resistance / Rock Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	75			P- 1 (0.0-2.0) From (0'-1.5') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (1.5'-2') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6204 (0'-2') (2.0) Bottom of hole.	**0.0 - 1.5 CLAY, CH; dark brown, medium plasticity, moist; (Colluvium)** **1.5 - 2.0 Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		Drilling Method: 1"ID Push Probe (0'-2') (P-1) PID= 0 Sheen= No Odor= No ← Bedrock Contact 1.5'. Backfilled with; Bentonite Chips (2'-0')	
5									
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-05**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: On Medco Haul Rd.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1320.9 ft**
Start Date **June 6, 2011**	End Date **June 6, 2011** / Total Depth **12.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil: Driving Resistance / Rock: Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Hardness, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	43			P- 1 (0.0-3.0) From (0'-0.5') AC. From (0.5'-1.2') Base Rock. From (1.2'-3.0') Gravelly SAND with some silt, SP-SM; brown, nonplastic, damp. Fill. Sample submitted for lab test = 6205 (0'-3')	**0.0 - 0.5 AC** **0.5 - 1.2 Base Rock** **1.2 - 10.1 Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH; brown to dark brown, nonplastic to medium plasticity, damp to moist; (Fill)**		Drilling Method: 1"ID Push Probe (0'-12') (P-1) PID= 0 Sheen= Yes Odor= Yes	
	P2	100			P- 2 (3.0-6.0) Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH; brown to dark brown, nonplastic to medium plasticity, damp to moist. Fill. Sample submitted for lab test = 6205 (4'-5') Sample submitted for lab test = 6205 (5'-6')			(P-2) PID= 0 Sheen= No Odor= Slight	
5									
	P3	100			P- 3 (6.0-9.0) Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH; brown to dark brown, nonplastic to medium plasticity, damp to moist. Fill. Sample submitted for lab test = 6205 (8'-9')			(P-3) PID= 0 Sheen= Slight Odor= Slight	
	N4	93			N- 4 (9.0-12.0) From (9.0'-10.1 ') Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH; brown to dark brown, nonplastic to medium plasticity, damp to moist. Fill. From (10.1'-12.0') CLAY, CH; dark brown to gray, medium plasticity, moist. Colluvium.	**10.1 - 12.0 CLAY, CH; dark brown to gray, medium plasticity, moist; (Colluvium)**		(P-4) PID= 0 Sheen= No Odor= No	
10									
					(12.0) Bottom of hole.			Backfilled with; Bentonite Chip (12'-0.5') AC Cold Mix (0.5'-0')	
15									

ODOT DRILL LOG 62-U2-P1-HAZMAT.GPJ ODOT_MAN.GDT 09/03/11

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-06**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: On proposed airport access alignment**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1308.3 ft**
Start Date **June 7, 2011** End Date **June 7, 2011**	Total Depth **3.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	73			P- 1 (0.0-3.0) From (0'-2.2') CLAY with trace sand, CH; dark brown, medium plasticity, moist. Colluvium. From (2.2'-3.0') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6206 (1'-2') Sample submitted for lab test = 6206 (2'-3') (3.0) Bottom of hole.	**0.0 - 2.2 CLAY with trace sand, CH; dark brown, medium plasticity, moist; (Colluvium)** **2.2 - 3.0 Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		Drilling Method: 1"ID Push Probe (0'-3') (P-1) PID= 0 Sheen= No Odor= No ← Bedrock Contact 2.2' Backfilled with; Bentonite Chips (3'-0')	
5									
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

			Hole No. **HM-U2P1-07**
Project **OR62 Corridor Solutions Unit-2 Phase-1**		Purpose **Level-2 HazMat Investigation**	E.A. No. **PE001522**
Highway **Crater Lake Hwy No. 22** (OR62)		County **Jackson**	Key No. **17188**
Hole Location Northing:	Easting:		Start Card No.
Equipment **(Geoprobe) Hole Location: On proposed airport access alignment**		Driller **FSE Wes Harper MW# 10528**	Bridge No.
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**		Recorder **Dan Raker**	Ground Elev. **1304.8 ft**
Start Date **June 7, 2011**	End Date **June 7, 2011**	Total Depth **2.5 ft**	Tube Height

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Hardness, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	80			P- 1 (0.0-2.5) From (0'-1.5') CLAY with trace sand and gravel, CH; dark brown, medium plasticity, moist. Colluvium. From (1.5'-2.5') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6207 (0'-2.5') (2.5) Bottom of hole.	**0.0 - 1.5** **CLAY with trace sand and gravel, CH; dark brown, medium plasticity, moist; (Colluvium)** **1.5 - 2.5** **Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		Drilling Method: 1"ID Push Probe (0'-2.5') (P-1) PID= 0 Sheen= No Odor= No ← Bedrock Contact 1.5' Backfilled with; Bentonite Chips (2.5'-0')	
5									
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-08**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22** (OR62)	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: On proposed airport access alignment**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1304.7 ft**
Start Date **June 7, 2011** End Date **June 7, 2011**	Total Depth **6.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil Driving Resistance / Rock Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Hardness, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	33			P- 1 (0.0-3.0) CLAY , CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6208 (0'-3')	**0.0 - 3.8 CLAY , CH; dark brown, medium plasticity, moist; (Colluvium)**		Drilling Method: 1"ID Push Probe (0'-6') (P-1) PID= 0 Sheen= No Odor= No	
	P2	100			P- 2 (3.0-6.0) From (0'-1.5') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (1.5'-2.5') Sandy GRAVEL with some clay, GP; brown, low plasticity, moist, Alluvium. Sample submitted for lab test = 6208 (4'-5')	**3.8 - 6.0 Sandy GRAVEL with some clay, GP; brown, low plasticity, moist; (Alluvium)**		(P-2) PID= 0 Sheen= No Odor= No	
5					(6.0) Bottom of hole.			Backfilled with; Bentonite Chips (6'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-09**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: On proposed airport access alignment**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1305.2 ft**
Start Date **June 7, 2011** End Date **June 7, 2011**	Total Depth **7.8 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type. No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	37			P- 1 (0.0-3.0) CLAY , CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6209 (0'-3')	**0.0 - 4.5 CLAY , CH; dark brown, medium plasticity, moist; (Colluvium)**		Drilling Method: 1"ID Push Probe (0'-7.8') (P-1) PID= 0 Sheen= No Odor= No	
	P2	73			P- 2 (3.0-6.0) From (3.0'-4.5') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (4.5'-6.0') Silty SAND, SM; light brown, low plasticity, moist, Alluvium. Sample submitted for lab test = 6209 (3'-4')			(P-2) PID= 0 Sheen= No Odor= No	
5						**4.5 - 6.8 Silty SAND, SM; light brown, low plasticity, moist; (Alluvium)**			
	P3	100			P- 3 (6.0-7.8) From (6.0'-6.8') Silty SAND, SM; light brown, low plasticity, moist, Alluvium. From (6.8'-7.8') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive.			(P-3) PID= 0 Sheen= No Odor= No ← Bedrock Contact 6.8'.	
					(7.8) Bottom of hole.	**6.8 - 7.8 Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		Backfilled with; Bentonite Chips (7.8'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-10**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: On proposed airport access alignment**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1304.0 ft**
Start Date **June 7, 2011** End Date **June 7, 2011**	Total Depth **6.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type. No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	60			P- 1 (0.0-3.0) CLAY , CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6210 (0'-3') (3.0-6.0) From (3.0'-4.0') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (4.0'-5.4') Silty SAND with trace gravel, SM; light brown, low plasticity, moist, Alluvium. From (5.4'-6.0') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6210 (3'-4') (6.0) Bottom of hole.	**0.0 - 4.0 CLAY , CH; dark brown, medium plasticity, moist; (Colluvium)** **4.0 - 5.4 Silty SAND with trace gravel, SM; light brown, low plasticity, moist; (Alluvium)** **5.4 - 6.0 Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		Drilling Method: 1"ID Push Probe (0'-6') (P-1) PID= 0 Sheen= No Odor= No (P-2) PID= 0 Sheen= No Odor= No Bedrock Contact 5.4'. Backfilled with; Bentonite Chips (6'-0')	
5									
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-11**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: On proposed airport access alignment**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1302.7 ft**
Start Date **June 7, 2011**	End Date **June 7, 2011** Total Depth **6.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	60			P- 1 (0.0-3.0) CLAY with trace sand and gravel , CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6211 (0'-3')	**0.0 - 3.6 CLAY with trace sand and gravel , CH; dark brown, medium plasticity, moist; (Colluvium)**		Drilling Method: 1"ID Push Probe (0'-6') (P-1) PID= 0 Sheen= No Odor= No	
	P2	100			P- 2 (3.0-6.0) From (3.0'-3.6') CLAY with trace sand and gravel , CH; dark brown, medium plasticity, moist, Colluvium. From (3.6'-5.8') SAND with trace gravel some silt, SP-SM; light brown, nonplastic to low plasticity, moist, Alluvium. From (5.8'-6.0') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6211 (4'-5')	**3.6 - 5.8 SAND with trace gravel some silt, SP-SM; light brown, nonplastic to low plasticity, moist; (Alluvium)**		(P-1) PID= 0 Sheen= No Odor= No	
5								← Bedrock Contact 5.8'.	
					(6.0) Bottom of hole.	**5.8 - 6.0 Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		Backfilled with; Bentonite Chips (6'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-12**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22** (OR62)	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: In Medco Log Pond.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1312.2 ft**
Start Date **June 7, 2011** End Date **June 7, 2011**	Total Depth **4.3 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	50			P- 1 (0.0-3.0) From (0'-2.5') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (2.5'-3') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6212 (0'-3')	**0.0 - 2.5** **CLAY, CH; dark brown, medium plasticity, moist;** (Colluvium)		Drilling Method: 1"ID Push Probe (0'-4.3') (P-1) PID= 0 Sheen= No Odor= No	
	P2	100			P- 2 (3.0-4.3) Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6213 (3'-4.3') (4.3) Bottom of hole.	**2.5 - 4.3** **Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		← Bedrock Contact 2.5'. (P-2) PID= 0 Sheen= No Odor= No	
5								Backfilled with; Bentonite Chips (4.3'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-13**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: In Medco Log Pond.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1312.1 ft**
Start Date **June 7, 2011** End Date **June 7, 2011**	Total Depth **6.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	33			P- 1 (0.0-3.0) CLAY, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6213 (0'-3')	**0.0 - 4.5 CLAY, CH; dark brown, medium plasticity, moist; (Colluvium)**		Drilling Method: 1"ID Push Probe (0'-6') (P-1) PID= 0 Sheen= No Odor= No	
	P2	100			P- 2 (3.0-6.0) From (3'-4.5') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (4.5'-6') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6213 (4'-5') Sample submitted for lab test = 6213 (5'-6')			(P-2) PID= 0 Sheen= No Odor= No	
5						**4.5 - 6.0 Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		← Bedrock Contact 4.5'.	
					(6.0) Bottom of hole.			Backfilled with; Bentonite Chips (6'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-14**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22** (OR62)	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: On Medco Haul Rd. (Scale Shack)**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1321.9 ft**
Start Date **June 6, 2011** End Date **June 6, 2011**	Total Depth **12.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type. No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	53			P- 1 (0.0-3.0) From (0'-0.5') AC. From (0.5'-1.2') Base Rock. From (1.2'-3.0') Sandy GRAVEL to Gravelly SAND, GP, SP; brown, nonplastic, damp. Fill. Sample submitted for lab test = 6214 (0'-3')	**0.0 - 0.5 AC**		Drilling Method: 1"ID Push Probe (0'-12') (P-1) PID= 0 Sheen= NA Odor= Yes	
	P2	100			P- 2 (3.0-6.0) Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH; brown to dark brown and gray-green, nonplastic to medium plasticity, damp to moist. Fill. Sample submitted for lab test = 6214 (4'-5') Sample submitted for lab test = 6214 (5'-6')	**0.5 - 1.5 Base Rock**		(P-2) PID= 0 Sheen= NA Odor= Yes	
5						**1.5 - 12.0 Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH; brown to dark brown and gray-green, nonplastic to medium plasticity, damp to moist; (Fill)**			
	P3	100			P- 3 (6.0-9.0) Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH; brown to dark brown and gray-green, nonplastic to medium plasticity, damp to moist. Fill. Sample submitted for lab test = 6214 (8'-9')			(P-3) PID= 0 Sheen= NA Odor= No	
	P4	100			P- 4 (9.0-12.0) Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH; brown to dark brown and gray-green, nonplastic to medium plasticity, damp to moist. Fill.			(P-4) PID= 0 Sheen= NA Odor= No	
10									
					(12.0) Bottom of hole.			Backfilled with; Bentonite Chip (12'-0.5') AC Cold Mix (0.5'-0')	
15									

ODOT DRILL LOG 62-U2-P1-HAZMAT.GPJ ODOT_MAN.GDT 09/03/11

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No. **HM-U2P1-15**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No. **PE001522**
Highway **Crater Lake Hwy No. 22** (OR62)	County **Jackson**	Key No. **17188**
Hole Location Northing:	Easting:	Start Card No.
Equipment **(Geoprobe) Hole Location: In Medco Log Pond.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev. **1311.8 ft**
Start Date **June 8, 2011** End Date **June 8, 2011**	Total Depth **4.5 ft**	Tube Height

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type. No.	Percent Recovery	Soil Driving Resistance / Rock Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	53			P- 1 (0.0-3.0) CLAY, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6215 (0'-3')	**0.0 - 3.5 CLAY, CH; dark brown, medium plasticity, moist; (Colluvium)**		Drilling Method: 1"ID Push Probe (0'-4.5') (P-1) PID= 0 Sheen= No Odor= No (P-2) PID= 0 Sheen= No Odor= No ← Bedrock Contact 3.5'.	
	P2	100			P- 2 (3.0-4.5) From (3'-3.5') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (3.5'-4.5') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6215 (3'-4.5') (4.5) Bottom of hole.	**3.5 - 4.5 Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**			
5								Backfilled with; Bentonite Chips (4.5'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-16**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: On Medco Haul Rd. (Scale Shack)**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1322.7 ft**
Start Date **June 7, 2011** End Date **June 7, 2011**	Total Depth **12.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	47			P- 1 (0.0-3.0) From (0'-0.5') AC. From (0.5'-1.2') Base Rock. From (1.2'-3.0') Sandy GRAVEL, GP; brown, nonplastic, damp. Fill. Sample submitted for lab test = 6216 (0'-3')	**0.0 - 0.5** **AC** **0.5 - 1.5** **Base Rock** **1.5 - 12.0** **CLAY with some sand and gravel, CH; dark brown to green, medium plasticity, moist; (Fill)**		Drilling Method: 1"ID Push Probe (0'-12') (P-1) PID= 0 Sheen= Yes Odor= Yes	
	P2	100			P- 2 (3.0-6.0) CLAY with some sand and gravel, CH; dark brown, medium plasticity, moist. Fill. Sample submitted for lab test = 6216 (5'-6')			(P-2) PID= 0 Sheen= No Odor= No	
5	P3	100			P- 3 (6.0-9.0) CLAY with some sand and gravel, CH; dark brown to green, medium plasticity, moist. Fill. Sample submitted for lab test = 6216 (7'-8')			(P-3) PID= 0 Sheen= No Odor= No	
	P4	33			P- 4 (9.0-12.0) CLAY with some sand and gravel, CH; dark brown to green, medium plasticity, moist. Fill.			(P-4) PID= 0 Sheen= No Odor= No	
10					(12.0) Bottom of hole.			Backfilled with; Bentonite Chip (12'-0.5') AC Cold Mix (0.5'-0')	
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No. **HM-U2P1-17**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No. **PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No. **17188**
Hole Location Northing:	Easting:	Start Card No.
Equipment **(Geoprobe) Hole Location: In Medco Log Pond.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev. **1311.2 ft**
Start Date **June 8, 2011** End Date **June 8, 2011**	Total Depth **5.0 ft**	Tube Height

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type. No.	Percent Recovery	Soil: Driving Resistance / Rock: Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	50			P- 1 (0.0-3.0) From (0'-2.5') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (2.5'-3.0') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6217 (2'-3')	**0.0 - 2.5 CLAY, CH; dark brown, medium plasticity, moist; (Colluvium)**		Drilling Method: 1"ID Push Probe (0'-5') (P-1) PID= 0 Sheen= No Odor= No	
	P2	50			P- 2 (3.0-5.0) Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6217 (4'-5')	**2.5 - 5.0 Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		← Bedrock Contact 2.5'. (P-2) PID= 0 Sheen= No Odor= No	
5					(5.0) Bottom of hole.			Backfilled with; Bentonite Chips (5'-0')	
10									
15									

ODOT DRILL LOG 62-U2-P1-HAZMAT.GPJ ODOT_MAN.GDT 09/03/11

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-18**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: In Medco Log Pond.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1313.0 ft**
Start Date **June 8, 2011** End Date **June 8, 2011**	Total Depth **9.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type. No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	33			P- 1 (0.0-3.0) From (0'-2.5') CLAY with some sand and gravel, CH; dark brown, low to medium plasticity, moist. Fill. From (2.5'-3.0') CLAY, CH; dark brown, medium plasticity, moist. Colluvium.	**0.0 - 2.5 CLAY with some sand and gravel, CH; dark brown, low to medium plasticity, moist; (Fill)**		Drilling Method: 1"ID Push Probe (0'-9') (P-1) PID= 0 Sheen= No Odor= No	
	P2	93			P- 2 (3.0-6.0) CLAY, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6218 (3'-6')	**2.5 - 7.0 CLAY, CH; dark brown, medium plasticity, moist; (Colluvium)**		(P-2) PID= 0 Sheen= No Odor= No	
5	P3	100			P- 3 (6.0-9.0) From (6.0'-7.0') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (7.0'-9.0') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. Sample submitted for lab test = 6218 (7'-8')	**7.0 - 9.0 Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		(P-3) PID= 0 Sheen= No Odor= No ← Bedrock Contact 7'.	
					(9.0) Bottom of hole.			Backfilled with; Bentonite Chips (9'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-19**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: In Medco Log Pond.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1313.4 ft**
Start Date **June 8, 2011**	End Date **June 8, 2011** Total Depth **6.4 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	60			P- 1 (0.0-3.0) CLAY with some sand and gravel, CH; dark brown, low to medium plasticity, moist. Fill. Sample submitted for lab test = 6219 (0'-3')	**0.0 - 6.3 CLAY with some sand and gravel, CH; dark brown, low to medium plasticity, moist; (Fill)**		Drilling Method: 1"ID Push Probe (0'-6.4') (P-1) PID= 0 Sheen= No Odor= No	
	P2	37			P- 2 (3.0-6.0) CLAY with some sand and gravel, CH; dark brown, low to medium plasticity, moist. Fill. Sample submitted for lab test = 6219 (3'-6')			(P-2) PID= 0 Sheen= No Odor= No	
5								(P-3) PID= 0 Sheen= No Odor= No	
	P3	100			P- 3 (6.0-6.4) From (6.0'-6.3') CLAY with some sand and gravel, CH; dark brown, low to medium plasticity, moist. Fill. From (6.3'-6.4') Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. (6.4) Bottom of hole.	**6.3 - 6.4 Intrusive Rock, brown, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		← Bedrock Contact 6.3'. Backfilled with; Bentonite Chips (6.4'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

			Hole No. **HM-U2P1-20**
Project **OR62 Corridor Solutions Unit-2 Phase-1**		Purpose **Level-2 HazMat Investigation**	E.A. No. **PE001522**
Highway **Crater Lake Hwy No. 22** (OR62)		County **Jackson**	Key No. **17188**
Hole Location Northing:	Easting:		Start Card No.
Equipment **(Geoprobe)** **Hole Location: On Medco Haul Rd. (Log Dump Station)**		Driller **FSE Wes Harper MW# 10528**	Bridge No.
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**		Recorder **Dan Raker**	Ground Elev. **1320.7 ft**
Start Date **June 7, 2011**	End Date **June 7, 2011**	Total Depth **9.0 ft**	Tube Height

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	73			P- 1 (0.0-3.0) Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH; light brown to dark brown, nonplastic to medium plasticity, damp to moist. Fill. Sample submitted for lab test = 6220 (0'-3')	**0.0 - 9.0 Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY with trace gravel, CH; light brown to dark brown, nonplastic to medium plasticity, damp to moist; (Fill)**		Drilling Method: 1"ID Push Probe (0'-12') (P-1) PID= 0 Sheen= No Odor= No	
	P2	100			P- 2 (3.0-6.0) Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH; light brown to dark brown, nonplastic to medium plasticity, damp to moist. Fill. Sample submitted for lab test = 6220 (5'-6')			(P-2) PID= 0 Sheen= No Odor= No	
5									
	P3	100			P- 3 (6.0-9.0) CLAY with trace gravel, CH; dark brown, medium plasticity, damp to moist. Fill. Sample submitted for lab test = 6220 (8'-9')			(P-3) PID= 0 Sheen= No Odor= No	
					(9.0) Bottom of hole.			Backfilled with; Bentonite Chips (9'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No. **HM-U2P1-21**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No. **PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No. **17188**
Hole Location Northing:	Easting:	Start Card No.
Equipment **(Geoprobe) Hole Location: In Medco Log Pond.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev. **1312.2 ft**
Start Date **June 8, 2011** End Date **June 8, 2011**	Total Depth **4.3 ft**	Tube Height

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type. No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	37			P- 1 (0.0-3.0) CLAY with some sand and gravel, CH; light brown to dark brown, low to medium plasticity, moist. Fill. Sample submitted for lab test = 6221 (0'-3')	**0.0 - 4.3 CLAY with some sand and gravel and ORGANIC DEBRIS of wood and bark, CH, PT; light brown to dark brown, low to medium plasticity, moist; (Fill)**		Drilling Method: 1"ID Push Probe (0'-4.3') (P-1) PID= 0 Sheen= No Odor= No	
	P2	92			P- 2 (3.0-4.3) CLAY with some sand and gravel and ORGANIC DEBRIS of wood and bark, CH, PT; light brown to dark brown, low to medium plasticity, moist. Fill. Sample submitted for lab test = 6221 (3'-4.3') (4.3) Bottom of hole.			(P-2) PID= 0 Sheen= No Odor= No Drilling refusal at 4.3' likely woody debris.	
5								Backfilled with; Bentonite Chips (4.3'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No. **HM-U2P1-22**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No. **PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No. **17188**
Hole Location Northing:	Easting:	Start Card No.
Equipment **(Geoprobe) Hole Location: On Medco Haul Rd. (Log Dump Station)**	Driller **FSE Wes Harper MW# 10528**	Bridge No.
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev. **1320.8 ft**
Start Date **June 7, 2011**	End Date **June 7, 2011** / Total Depth **15.3 ft**	Tube Height

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	43			P- 1 (0.0-3.0) Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH; light brown to dark brown, nonplastic to medium plasticity, damp to moist. Fill. Sample submitted for lab test = 6222 (0'-3')	**0.0 - 11.0 Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH; light brown to dark brown and green, nonplastic to medium plasticity, damp to moist; (Fill)**		Drilling Method: 1"ID Push Probe (0'-15.3') (P-1) PID= 0 Sheen= No Odor= No	
	P2	100			P- 2 (3.0-6.0) Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH; light brown to dark brown, nonplastic to medium plasticity, damp to moist. Fill. Sample submitted for lab test = 6222 (4'-5') Sample submitted for lab test = 6222 (5'-6')			(P-2) PID= 0 Sheen= No Odor= No	
5	P3	100			P- 3 (6.0-9.0) Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH; light brown to dark brown, nonplastic to medium plasticity, damp to moist. Fill.			(P-3) PID= 0 Sheen= No Odor= No	
	P4	100			P- 4 (9.0-12.0) From (9.0'-11'0) Sandy GRAVEL to Gravelly SAND, GP, SP and CLAY, CH: light brown to dark brown and green, nonplastic to medium plasticity, damp to moist. Fill. From (11.0'-12.0') CLAY with some gravel, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6222 (11'-12')			(P4) PID= 0 Sheen= No Odor= No	
10	P5	100			P- 5 (12.0-15.0) From (12.0'-14.2') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (14.2'-15.0') Intrusive Rock, green, predominantly decomposed, extremely soft to very soft. Igneous Intrusive.	**11.0 - 14.2 Clay with some gravel, CH; dark brown, medium plasticity, moist; (Colluvium)**		(P5) PID= 0 Sheen= No Odor= No	
15	P6	100			P- 6 (15.0-15.3) Intrusive Rock, green, predominantly decomposed, extremely soft to very soft. Igneous Intrusive. (15.3) Bottom of hole.	**14.2 - 15.3 Intrusive Rock, green, predominantly decomposed, extremely soft to very soft; (Igneous Intrusive)**		Bedrock Contact 14.2'. Backfilled with; Bentonite Chips (15.3'-0')	
17									

ODOT DRILL LOG 62-U2-P1-HAZMAT.GPJ ODOT_MAN.GDT 09/03/11

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-23**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22** (OR62)	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe)** **Hole Location: On Medco Haul Rd. (Adjacent fill piles)**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1319.7 ft**
Start Date **June 7, 2011**	End Date **June 7, 2011** Total Depth **10.5 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Hardness, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	83			P- 1 (0.0-3.0) CLAY with some sand and gravel, CH; dark brown, medium plasticity, moist. Fill. Sample submitted for lab test = 6223 (0'-3')	**0.0 - 8.0 CLAY with some sand and gravel, CH; dark brown, medium plasticity, moist; (Fill)**		Drilling Method: 1"ID Push Probe (0'-10.5') (P-1) PID= 0 Sheen= No Odor= No	
	P2	37			P- 2 (3.0-6.0) CLAY with some sand and gravel, CH; dark brown, medium plasticity, moist. Fill.			(P-1) PID= 0 Sheen= No Odor= No	
5	P3	37			P- 3 (6.0-9.0) From (6.0'-8.0') CLAY with some sand and gravel, CH; dark brown, medium plasticity, moist. Fill. From (8.0'-9.0') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6223 (6'-9')			(P-3) PID= 0 Sheen= No Odor= No	
						8.0 - 10.4 CLAY, CH; dark brown, medium plasticity, moist; (Colluvium)			
10	P4	50			P- 4 (9.0-10.4) From (9.0'-10.4') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (10.4'-10.5') MUDSTONE/SANDSTONE, light brown to gray, moderately weathered, very soft, tuffaceous. (10.4) Bottom of hole.			← Bedrock Contact 10.4'	
						10.4 - 10.5 MUDSTONE/ SANDSTONE, light brown to gray, moderately weathered, very soft, tuffaceous.; (Eocene Sediments)		Backfilled with; Bentonite Chips (10.5'-0')	
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-24**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: On Medco Haul Rd. (Adjacent fill piles)**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1318.3 ft**
Start Date **June 7, 2011** / End Date **June 7, 2011**	Total Depth **7.5 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type. No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	37			P- 1 (0.0-3.0) Sandy GRAVEL to CLAY with some sand and gravel, GP, CH; brown to dark brown, nonplastic to medium plasticity, moist. Fill.	**0.0 - 5.5 Sandy GRAVEL to CLAY with some sand and gravel, GP, CH; brown to dark brown, nonplastic to medium plasticity, moist; (Fill)**		Drilling Method: 1"ID Push Probe (0'-7.5') (P-1) PID= 0 Sheen= No Odor= No	
	P2	100			P- 2 (3.0-6.0) From (3.0'-5.5') Sandy GRAVEL to CLAY with some sand and gravel, GP, CH; brown to dark brown, nonplastic to medium plasticity, moist. Fill. From (5.5'-6.0') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6224 (3'-6')			(P-1) PID= 0 Sheen= No Odor= No	
5						**5.5 - 7.0 CLAY, CH; dark brown, medium plasticity, moist; (Colluvium)**		(P-3) PID= 0 Sheen= No Odor= No	
	P3	100			P- 3 (6.0-7.5) From (6.0'-7.0') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (7.0'-7.5') MUDSTONE/SANDSTONE, light brown to gray, moderately weathered, very soft, tuffaceous. Sample submitted for lab test = 6224 (5.5'-6.5') (7.5) Bottom of hole.	**7.0 - 7.5 MUDSTONE/ SANDSTONE, light brown to gray, moderately weathered, very soft, tuffaceous.; (Eocene Sediments)**		← Bedrock Contact 7'.	
10								Backfilled with; Bentonite Chips (7.5'-0')	
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No. **HM-U2P1-25**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No. **PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No. **17188**
Hole Location Northing:	Easting:	Start Card No.
Equipment **(Geoprobe)** **Hole Location: On Medco Haul Rd. (Coker Butte side Spur Rd.)**	Driller **FSE Wes Harper MW# 10528**	Bridge No.
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev. **1317.2 ft**
Start Date **June 7, 2011** End Date **June 7, 2011**	Total Depth **5.0 ft**	Tube Height

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	60			P- 1 (0.0-3.0) From (0'-0.5') AC. From (0.5'-1.5') Base Rock. From (1.5'-3.0') Sandy GRAVEL, GP; brown, nonplastic, damp. Fill. Sample submitted for lab test = 6225 (0'-3')	**0.0 - 0.5** **AC** **0.5 - 1.5** **Base Rock** **1.5 - 5.0** **Sandy GRAVEL to Gravelly SAND and CLAY, GP, SP, CH; light brown to dark brown, nonplastic to medium plasticity, damp to moist; (Fill)**		Drilling Method: 1"ID Push Probe (0'-5') (P-1) PID= 0 Sheen= No Odor= Slight	
	P2	100			P- 2 (3.0-5.0) Sandy GRAVEL to Gravelly SAND and CLAY, GP, SP, CH; light brown to dark brown, nonplastic to medium plasticity, damp to moist. Fill. Sample submitted for lab test = 6225 (3'-5')			(P-2) PID= 0 Sheen= No Odor= No Driller notes; hard at 4.9' Basalt gravel in shoe.	
5					(5.0) Bottom of hole.			Backfilled with; Bentonite Chip (5'-0.5') AC Cold Mix (0.5'-0')	
10									
15									

ODOT DRILL LOG 62-U2-P1-HAZMAT.GPJ ODOT_MAN.GDT 09/03/11

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-26**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001622**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: East shoulder of Medco Haul Rd.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1312.5 ft**
Start Date **June 7, 2011** End Date **June 7, 2011**	Total Depth **9.1 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil Driving Resistance / Rock Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Hardness, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	4			P- 1 (0.0-3.0) Sandy GRAVEL, GP; brown, nonplastic, damp. Fill. Sample submitted for lab test = 6226 (0'-3')	**0.0 - 3.0 Sandy GRAVEL, GP; brown, nonplastic, damp; (Fill)**		Drilling Method: 1"ID Push Probe (0'-9.1') (P-1) PID= 0 Sheen= No Odor= No	
	P2	100			P- 2 (3.0-6.0) CLAY, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6226 (5'-6')	**3.0 - 9.0 CLAY, CH; dark brown, medium plasticity, moist; (Colluvium)**		(P-2) PID= 0 Sheen= No Odor= No	
5					(6.0-9.0) CLAY, CH; dark brown, medium plasticity, moist. Colluvium.			(P-3) PID= 0 Sheen= No Odor= No	
					(9.0-9.1) MUDSTONE/SANDSTONE, light brown to gray, moderately weathered, very soft, tuffaceous. (9.1) Bottom of hole.	**9.0 - 9.1 MUDSTONE/ SANDSTONE, light brown to gray, moderately weathered, very soft, tuffaceous.; (Eocene Sediments)**		← Bedrock Contact 9'. Backfilled with; Bentonite Chips (9.1'-0')	
10									
15									

ODOT DRILL LOG 62-U2-P1-HAZMAT.GPJ ODOT_MAN.GDT 09/03/11

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-27**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe)** **Hole Location: East shoulder of Medco Haul Rd.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1312.6 ft**
Start Date **June 7, 2011** End Date **June 7, 2011**	Total Depth **6.3 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	50			P- 1 (0.0-3.0) CLAY, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6227 (0'-3')	**0.0 - 6.1 CLAY, CH; dark brown, medium plasticity, moist; (Colluvium)**		Drilling Method: 1"ID Push Probe (0'-6.3') (P-1) PID= 0 Sheen= No Odor= No	
	P2	100			P- 2 (3.0-6.0) CLAY, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6227 (4'-5') Sample submitted for lab test = 6227 (5'-6')			(P-2) PID= 0 Sheen= No Odor= No	
5	P3	100			P- 3 (6.0-6.3) From (6.0'-6.1') CLAY, CH; dark brown, medium plasticity, moist. Colluvium From (6.1'-6.3') SAND, SP; gray-brown, nonplastic, moist. Alluvium. (6.3) Bottom of hole.	**6.1 - 6.3 SAND, SP; gray-brown, nonplastic, moist; (Alluvium)**		Hard Drilling 6.1'. Backfilled with; Bentonite Chips (6.3'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-28**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22** (OR62)	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: East shoulder of Medco Haul Rd.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1312.8 ft**
Start Date **June 6, 2011** End Date **June 6, 2011**	Total Depth **5.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Hardness, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	47			P- 1 (0.0-3.0) CLAY, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6228 (0'-3')	**0.0 - 5.0 CLAY, CH; dark brown, medium plasticity, moist; (Colluvium)**		Drilling Method: 1"ID Push Probe (0'-5') (P-1) PID= 0 Sheen= No Odor= No	
	P2	100			P- 2 (3.0-5.0) CLAY, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6228 (4'-5')			(P-2) PID= 0 Sheen= No Odor= No	
5					(5.0) Bottom of hole.			Backfilled with; Bentonite Chips (5'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-29**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: South shoulder of Commerce Dr.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1317.2 ft**
Start Date **June 6, 2011**	End Date **June 6, 2011** Total Depth **5.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type. No.	Percent Recovery	Soil Driving Resistance / Rock Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Hardness, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	60			P- 1 (0.0-3.0) From (0'-1.7') CLAY with trace sand and gravel, CH; dark brown, medium plasticity, moist. Colluvium. From (1.7'-3') SAND with some gravel and silt, SP-SM; brown, nonplastic, moist. Alluvium. Sample submitted for lab test = 6229 (0'-3')	**0.0 - 1.7 CLAY with trace sand and gravel, CH; dark brown, medium plasticity, moist; (Colluvium)**		Drilling Method: 1"ID Push Probe (0'-5') (P-1) PID= 0 Sheen= No Odor= No	
	P2	66			P- 2 (3.0-5.0) From (3'-3.4') SAND with some gravel and silt, SP-SM; brown, nonplastic, moist. Bench Gravel. From (3.4'-5') Clayey Sandy GRAVEL, GC; gray-brown, low to medium plasticity, moist. Alluvium. Sample submitted for lab test = 6229 (4'-5') (5.0) Bottom of hole.	**1.7 - 3.4 SAND with some gravel and silt, SP-SM; brown, nonplastic, moist; (Alluvium)** **3.4 - 5.0 Clayey Sandy GRAVEL, GC; gray-brown, low to medium plasticity, moist; (Alluvium)**		(P-2) PID= 0 Sheen= No Odor= No	
5								Backfilled with; Bentonite Chips (5'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-30**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22** (OR62)	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe)** **Hole Location: West shoulder of Medco Haul Rd.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1325.1 ft**
Start Date **June 6, 2011**	End Date **June 6, 2011** / Total Depth **6.0 ft**	Tube Height	

Test Type

"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil Driving Resistance / Rock Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	60			P- 1 (0.0-3.0) From (0'-0.3') AC. From (0.3'-3.0') Sandy GRAVEL with some silt, GP-GM; brown, nonplastic, damp. Alluvium. Sample submitted for lab test = 6230 (0'-3')	**0.0 - 0.3** **AC** **0.3 - 5.0** **Sandy GRAVEL with some silt, GP-GM; brown, nonplastic, damp; (Alluvium)**		Drilling Method: 1"ID Push Probe (0'-5') (P-1) PID= 0 Sheen= Slight Odor= No	
	P2	100			P- 2 (3.0-6.0) From (3.0'-5.0') Sandy GRAVEL with some silt, GP-GM; brown, nonplastic, damp. Alluvium. From (5.0'-6.0') MUDSTONE, light brown, slightly weathered, very soft. Eocene Sediments. Sample submitted for lab test = 6230 (4'-5')			(P-2) PID= 0 Sheen= No Odor= No	
5						**5.0 - 6.0** **MUDSTONE, light brown, slightly weathered, very soft; (Hornbrook Fm)**		← Bedrock Contact 5'.	
					(6.0) Bottom of hole.			Backfilled with; Bentonite Chip (5'-0.5') AC Cold Mix (0.5'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-31**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: East shoulder of Medco Haul Rd.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1334.7 ft**
Start Date **June 6, 2011** End Date **June 6, 2011**	Total Depth **3.1 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type. No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P60				P- 60 (0.0-3.0) From (0'-0.4') AC From (0.4'-1.0') Base Rock From (1.0'-2.8') CLAY, CH; dark brown, medium plasticity, moist. Colluvium. From (2.8'-3.0') Sandy GRAVEL with some silt, GP-GM; brown, nonplastic, damp. Alluvium. Sample submitted for lab test = 6231 (0'-3')	**0.0 - 0.4** **AC** **0.4 - 1.0** **Base Rack** **1.0 - 2.8** **CLAY, CH; dark brown, medium plasticity, moist; (Colluvium)**		Drilling Method: 1"ID Push Probe (0'-3.1') (P-1) PID= 0 Sheen= Slight Odor= No	
	P100				P- 100 (3.0-3.1) Sandy GRAVEL with some silt, GP-GM; brown, nonplastic, damp. Alluvium. (3.1) Bottom of hole.	**2.8 - 3.1** **Sandy GRAVEL with some silt, GP-GM; brown, nonplastic, damp; (Alluvium)**		Drilling refusal at 3.1'. Backfilled with; Bentonite Chip (3.1'-0.5') AC Cold Mix (0.5'-0')	
5									
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-32**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: West of Sportsman Warehouse pond.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1341.4 ft**
Start Date **June 6, 2011** End Date **June 6, 2011**	Total Depth **10.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	60			P- 1 (0.0-3.0) Clayey SAND with trace gravel, SC; light brown, low plasticity, moist. Alluvium.	**0.0 - 2.5 Clayey SAND with trace gravel, SC; light brown, low plasticity, moist; (Alluvium)**		Drilling Method: 1"ID Push Probe (0'-10') (P-1) PID= 0 Sheen= No Odor= No	
	P2	40			P- 2 (3.0-6.0) Gravelly SAND with trace silt, SP; light brown, nonplastic. Alluvium. Sample submitted for lab test = 6232 (3'-6')	**2.5 - 5.5 Gravelly SAND with trace silt, SP; light brown, nonplastic; (Alluvium)**		(P-2) PID= 0 Sheen= No Odor= No	
5									
	P3	100			P- 3 (6.0-9.0) CLAY, CL; light gray, low to medium plasticity, moist. Alluvium.	**5.5 - 10.0 CLAY, CL; light gray, low to medium plasticity, moist; (Alluvium)**		(P-3) PID= 0 Sheen= No Odor= No	
	P4	100			P- 4 (9.0-10.0) CLAY, CL; light gray, low to medium plasticity, moist. Alluvium.			(P-4) PID= 0 Sheen= No Odor= No	
10					(10.0) Bottom of hole.			Drilling refusal at 10'	
								Backfilled with; Bentonite Chips (10'-0')	
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-33**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: NW Bank of Lone Pine Cr Canal**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1330.9 ft**
Start Date **June 6, 2011** End Date **June 6, 2011**	Total Depth **4.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type. No.	Percent Recovery	Soil Driving Resistance / Rock Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	60			P- 1 (0.0-3.0) CLAY with some sand, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6233 (0'-3')	**0.0 - 3.4 CLAY with some sand, CH; dark brown, medium plasticity, moist; (Colluvium)**		Drilling Method: 1"ID Push Probe (0'-4') (P-1) PID= 0 Sheen= No Odor= No (P-2) PID= 0 Sheen= No Odor= No	
	P2	100			P- 2 (3.0-4.0) From (3.0'-3.4') CLAY with some sand, CH; dark brown, medium plasticity, moist, Colluvium. From (3.4'-3.7') Quartzite GRAVEL with some sand, light gray to brown, nonplastic, moist, Alluvium. From (3.4'-3.7') MUDSTONE, light brown, slightly weathered, very soft, Hornbrook Formation. (4.0) Bottom of hole.	**3.4 - 3.7 Quartzite GRAVEL with some sand, light gray to brown, nonplastic, moist; (Alluvium)** **3.7 - 4.0 MUDSTONE, light brown, slightly weathered, very soft. (Hornbrook Fm)**		← Bedrock Contact 3.7'. Backfilled with; Bentonite Chips (4'-0')	
5									
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-34**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22** (OR62)	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: NE Bank of Lone Pine Cr Canal**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1331.9 ft**
Start Date **June 6, 2011** End Date **June 6, 2011**	Total Depth **5.3 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type. No.	Percent Recovery	Soil Driving Resistance / Rock Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Hardness, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	93			P- 1 (0.0-3.0) CLAY with some sand, CH; dark brown, medium plasticity, moist. Colluvium. Sample submitted for lab test = 6234 (0'-3')	**0.0 - 3.1 CLAY with some sand, CH; dark brown, medium plasticity, moist; (Colluvium)**		Drilling Method: 1"ID Push Probe (0'-5.3') (P-1) PID= 0 Sheen= No Odor= No (P-2) PID= 0 Sheen= No Odor= No	
	P2	87			P- 2 (3.0-5.3) From (3.0'-3.1') CLAY with some sand, CH; dark brown, medium plasticity, moist. Colluvium. From (3.1'-3.6') Quartzite GRAVEL with some sand, light gray to brown, nonplastic, moist. Alluvium. From (3.6'-5.3') MUDSTONE, light brown, moderately weathered, very soft. Hornbrook Formation.	**3.1 - 3.6 Quartzite GRAVEL with some sand, light gray to brown, nonplastic, moist; (Alluvium)**		← Bedrock Contact 3.6'.	
5					Sample submitted for lab test = 6234 (3'-4') (5.3) Bottom of hole.	**3.6 - 5.3 MUDSTONE, light brown, moderately weathered, very soft; (Hornbrook Fm)**		Backfilled with; Bentonite Chips (5.3'-0')	
10									
15									

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-35**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: On Medco Haul Rd.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1335.0 ft**
Start Date **June 6, 2011** End Date **June 6, 2011**	Total Depth **12.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type. No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	57			P- 1 (0.0-3.0) From (0'-0.2') AC From (0.2'-1.5') Base Rock From (1.5'-3.0') Sandy GRAVEL with some silt, GP; brown, nonplastic, damp. Fill. Sample submitted for lab test = 6235 (0'-3')	**0.0 - 0.2** **AC** **0.2 - 1.5** **Base Rock** **1.5 - 5.0** **Sandy CLAY, CL; brown, medium plasticity, moist; (Alluvium)**		Drilling Method: 1"ID Push Probe (0'-12') (P-1) PID= 0 Sheen= Yes Odor= Yes	
	P2	67			P- 2 (3.0-6.0) Sandy CLAY, CL; brown, medium plasticity, moist. Alluvium. Sample submitted for lab test = 6235 (3'-6')			(P-2) PID= 0 Sheen= No Odor= No	
5						**5.0 - 12.0** **Sandy SILT with trace clay, ML; light brown, low plasticity, moist; (Alluvium)**			
	P3	100			P- 3 (6.0-9.0) Sandy SILT with trace clay, ML; light brown, low plasticity, moist. Alluvium. Sample submitted for lab test = 6235 (6'-9')			(P-3) PID= 0 Sheen= No Odor= No	
	P4	100			P- 4 (9.0-12.0) Sandy SILT with trace clay, ML; light brown, low plasticity, moist. Alluvium.			(P-4) PID= 0 Sheen= No Odor= No	
10									
					(12.0) Bottom of hole.			Backfilled with; Bentonite Chip (12'-0.5') AC Cold Mix (0.5'-0')	
15									

ODOT DRILL LOG 62-U2-P1-HAZMAT.GPJ ODOT_MAN.GDT 09/03/11

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**HM-U2P1-36**
Project **OR62 Corridor Solutions Unit-2 Phase-1**	Purpose **Level-2 HazMat Investigation**	E.A. No.	**PE001522**
Highway **Crater Lake Hwy No. 22 (OR62)**	County **Jackson**	Key No.	**17188**
Hole Location Northing:	Easting:	Start Card No.	
Equipment **(Geoprobe) Hole Location: North shoulder of Hwy 62.**	Driller **FSE Wes Harper MW# 10528**	Bridge No.	
Project Geologist **Kenny Camp Reg-3 HazMat Coordinator**	Recorder **Dan Raker**	Ground Elev.	**1331.8 ft**
Start Date **June 6, 2011**	End Date **June 6, 2011** / Total Depth **8.0 ft**	Tube Height	

Test Type
"A" - Advancer
"X" - Auger
"C" - Core
"N" - Standard Penetration Test
"U" - Undisturbed Sample
"D" - Oversize Split Spoon Sample

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Hardness, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0	P1	50			P- 1 (0.0-3.0) From (0'-0.5') AC From (0.2'-3.0') Base Rock Sample submitted for lab test = 6236 (0'-3')	**0.0 - 0.5** **AC** **0.5 - 3.0** **Base Rock**		Drilling Method: 1"ID Push Probe (0'-8') (P-1) PID= 0 Sheen= No Odor= No	
	P2	100			P- 2 (3.0-6.0) Clayey SAND, SC; tan, low plasticity, moist. Alluvium. Sample submitted for lab test = 6236 (4'-5')	**3.0 - 8.0** **Clayey SAND, SC; tan, low plasticity, moist; (Alluvium)**		(P-2) PID= 0 Sheen= No Odor= No	
5	P3	100			P- 3 (6.0-8.0) Clayey SAND, SC; tan, low plasticity, moist. Alluvium.			(P-3) PID= 0 Sheen= No Odor= No	
					(8.0) Bottom of hole.			Drilling refusal at 8'	
10								Backfilled with; Bentonite Chip (8'-0.5') AC Cold Mix (0.5'-0')	
15									

Appendix E

Laboratory Analytical Data

Page - 1

State of Oregon Sample Chain of Custody

Agency, Authorized Purchaser or Agent: ODOT	**Contract Laboratory Name:** PACE	**Lab Selection Criteria:**	**Turn Around Time:**
Send Lab Report To: ODOT	**Lab Batch #:**	☐ Proximity (if TAT < 72 hrs)	X☐ 10 days (std.)
Address: 3500 Stewart Parkway, Roseburg, Oregon 97470	**Invoice To:**	☐ Prior work on same project	☐ 5 days
	Address: SAME	X☐ Cost (for anticipated analyses)	☐ 72 hours
Tel. #:		☐ Other labs disqualified or unable to perform requested services	☐ 48 hours
E-mail:	Tel. #:	☐ Emergency work	☐ 24 hours
			☐ Other

Project Name: Hwy 62 Phase-1
Project #:
Sampler Name: Kenny Camp

Sample ID#	Collection Date/Time	Matrix	Number of Containers	NWTPH HCID	Total Metals 7000 + 8	SVOC 8270 Full List								Comments
Sample Preservative														
Stock Pile 6223 C/L	8:50 6/7	Soil	1		X									
Stock pile 6224N	8:32 6/7	"	1		X									
6201 0-3 BGL	12:50 6/6	"	1	X		X								
6201 3'-5.5 BGL	12:55 6/6	"	1	X										
6201B 0-3 BGL	1:57 6/6	"	1	X										
6201B 4'-5' BGL	2:02 6/6	"	1	X										
6201B 5'-6' BGL	2:02 6/6	"	1	X										
6201C 0'-3 BGL	2:18 6/6	"	1	X										
6202 0-3 BGL	1:12 6/6	"	1	X										
6202B 0-3 BGL	2:45 6/6	"	1	X		X								
6203 1-2 BGL	3:16 6/6	"	1	X										
6203 2-3' BGL	3:16 6/6	"	1	X										

Notes:

Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

State of Oregon Sample Chain of Custody

Agency, Authorized Purchaser or Agent: ODOT	**Contract Laboratory Name:** PACE	**Lab Selection Criteria:**	**Turn Around Time:**
Send Lab Report To: ODOT Address: 3500 Stewart Parkway, Roseburg, Oregon 97470 Tel. #: E-mail:	**Lab Batch #:** **Invoice To:** Address: SAME Tel. #:	☐ Proximity (if TAT < 72 hrs) ☐ Prior work on same project X☐ Cost (for anticipated analyses) ☐ Other labs disqualified or unable to perform requested services ☐ Emergency work	X☐ 10 days (std.) ☐ 5 days ☐ 72 hours ☐ 48 hours ☐ 24 hours ☐ Other

Project Name: Hwy 62 Phase-1
Project #:
Sampler Name: Kenny Camp

Sample ID#	Collection Date/Time	Matrix	Number of Containers	Sample Preservative	Requested Analyses: NWTPH HCID	Requested Analyses: NWTPH Method + Total Hours	Requested Analyses: SVOC 8270 Full list	Requested Analyses: Herbicides 8151	Requested Analyses: Particulates 8081	Comments
6203 3'-6 BGL	3:21 6/6	Soil	1		X					
6203 6'-6.5 BGL	3:25 6/6	"	1		X					
6204 0'-2 BGL	1:35 6/6	"	1			X				
6205 0'-3' BGL	4:07 6/6	"	1		X					
6205 4'-5' BGL	4:12 6/6	"	1		X					
6205 5'-6' BGL	4:12 6/6	"	1		X					
6205 8'-9 BGL	4:16 6/6	"	1		X	X				
6206 1'-2' BGL	12:38 6/7	"	1					X		
6206 2'-3 BGL	12:28 6/7	"	1			X				
6207 0'-2.5 BGL	12:40 6/7	"	1		X	X				
6208 0'-3' BGL	12:55 6/7	"	1			X		X		
6208 4'-5' BGL	1:01 6/7	"	1			X		X		

Notes:

Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

Version: 4/4/2008

Page - 3

State of Oregon Sample Chain of Custody

Agency, Authorized Purchaser or Agent: ODOT	Contract Laboratory Name: PACE	Lab Selection Criteria:	Turn Around Time:
Send Lab Report To: ODOT Address: 3500 Stewart Parkway, Roseburg, Oregon 97470 Tel. #: E-mail:	Lab Batch #: Invoice To: Address: SAME Tel. #:	☐ Proximity (if TAT < 72 hrs) ☐ Prior work on same project X☐ Cost (for anticipated analyses) ☐ Other labs disqualified or unable to perform requested services ☐ Emergency work	X☐ 10 days (std.) ☐ ~~5 days~~ ☐ 72 hours ☐ 48 hours ☐ 24 hours ☐ Other

Project Name: Hwy 62 Phase-1
Project #:
Sampler Name: Kenny Camp

Sample ID#	Collection Date/Time	Matrix	Number of Contain-ers	NW TPH-HCID	Total Metals RCRA 8	SVOC 8270 Full List	Herbicides 8151	Pesticides 8081						Comments
6209 0-3 BGL	1:19 6/7	Soil	1					X						
6209 3-4' BGL	1:23 6/7	"	1				X							
6210 0-3 BGL	1:49 6/7	"	1				X							
6210 3-4 BGL	1:57 6/7	"	1		X									
6211 0-3 BGL	2:09 6/7	"	1				X							
6211 4'-5' BGL	2:15 6/7	"	1		X									
6212 0-3 BGL	2:49 6/7	"	1	X		X								
6212 3'-4.3 BGL	2:52 6/7	"	1		X									
6213 0-3 BGL	2:39 6/7	"	1			X								
6213 4'-5 BGL	2:36 6/7	"	1	X										
6213 5'-6 BGL	2:36 6/7	"	1	X										

Notes:

Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

Page - 4

State of Oregon Sample Chain of Custody

Agency, Authorized Purchaser or Agent: ODOT	Contract Laboratory Name: PACE	Lab Selection Criteria: ☐ Proximity (if TAT < 72 hrs) ☐ Prior work on same project	Turn Around Time: X☐ 10 days (std.) ☐ 5 days
~~Send Lab Report To: ODOT~~	Lab Batch #:		
Address: 3500 Stewart Parkway, Roseburg, Oregon 97470 Tel. #: E-mail:	Invoice To: Address: SAME Tel. #:	X☐ Cost (for anticipated analyses) ☐ Other labs disqualified or unable to perform requested services ☐ Emergency work	☐ 72 hours ☐ 48 hours ☐ 24 hours ☐ Other
Project Name: Hwy 62 Phase-1 Project #: Sampler Name: Kenny Camp			

Sample ID#	Collection Date/Time	Matrix	Number of Containers	Sample Preservative: NWTPH-HCID	Requested Analyses: NWTPH-HCID	TOTAL METALS AS	SVOC 8270 FULL LIST	Comments
6214 0-3' BGL	4:42 6/6	Soil	1	X				
6214 4-5' BGL	4:44 6/6	"	"	X				
6214 5'-6' BGL	4:44 6/6	"	"	X				
6214 8'-9 BGL	4:49 6/6	"	"	X				
6215 0-3' BGL	7:59 6/8	"	"	X				
6215 3'-4.5 BGL	8:05 6/8	"	"			X		
6216 0-3' BGL	11:13 6/7	"	"	X				
6216 5-6' BGL	11:17 6/7	"	"	X	X			
6216 7'-8' BGL	11:19 6/7	"	"	X				
6217 2'-3 BGL	8:15 6/8	"	"	X				
6217 4-5 BGL	8:18 6/8	"	"	X				
6218 3'6 BGL	8:31 6/8	"	"		X			

Notes:

Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

Version: 4/4/2008

Page - 5

State of Oregon Sample Chain of Custody

Agency, Authorized Purchaser or Agent: ODOT	**Contract Laboratory Name:** PACE	**Lab Selection Criteria:**	**Turn Around Time:**
~~Send Lab Report To: ODOT~~	~~Lab Batch #:~~	☐ Proximity (if TAT < 72 hrs)	X☐ 10 days (std.)
Address: 3500 Stewart Parkway, Roseburg, Oregon 97470	**Invoice To:**	~~☐ Prior work on same project~~	~~☐ 5 days~~
Tel. #:	Address: SAME	X☐ Cost (for anticipated analyses)	☐ 72 hours
E-mail:	Tel. #:	☐ Other labs disqualified or unable to perform requested services	☐ 48 hours
		☐ Emergency work	☐ 24 hours
			☐ Other

Project Name: Hwy 62 Phase-1
Project #:
Sampler Name: Kenny Camp

Sample Preservative / Requested Analyses

Sample ID#	Collection Date/Time	Matrix	Number of Containers	NWTPH-HCID	Total Metals RCRA 8	SVOC 8270 Full list	Comments
6218 7-8' BGL	8:37 6/8	Soil	1	X			
6218 0-3 BGL	8:48 6/8	"	1	X			
6219 3'-6 BGL	8:51 6/8	"	1	X			
6220 0-3 BGL	10:30 6/7	"	1		X		
6220 5'-6 BGL	10:33 6/7	"	1	X			
6220 8-9 BGL	10:35 6/7	"	1	X			
6221 0-3 BGL	9:05 6/8	"	1			X	
6221 3-4.3 BGL	9:08 6/8	"	1		X		
6222 0-3' BGL	9:50 6/7	"	1	X			
6222 4-5 BGL	9:59 6/7	"	1	X			
6222 5'-6 BGL	9:59 6/7	"	1	X			
6222 11'-12' BGL	10:05 6/7	"	1			X	

Notes:

Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

Page – 6

State of Oregon Sample Chain of Custody

Agency, Authorized Purchaser or Agent: ODOT	Contract Laboratory Name: PACE	Lab Selection Criteria:	Turn Around Time:
~~Send Lab Report To: ODOT~~	~~Lab Batch #:~~	☐ Proximity (if TAT < 72 hrs)	X☐ 10 days (std.)
Address: 3500 Stewart Parkway, Roseburg, Oregon 97470	Invoice To:	☐ ~~Prior work on same project~~	☐ ~~5 days~~
Tel. #:	Address: SAME	X☐ Cost (for anticipated analyses)	☐ 72 hours
E-mail:	Tel. #:	☐ Other labs disqualified or unable to perform requested services	☐ 48 hours
		☐ Emergency work	☐ 24 hours
			☐ Other

Project Name: Hwy 62 Phase-1	Sample Preservative: HCl									
Project #:	Requested Analyses: NW TPH-HCID	Total Metals +8								
Sampler Name: Kenny Camp										

Sample ID#	Collection Date/Time	Matrix	Number of Containers										Comments
6223 0-3 BGL	9:16 6/7	S.L	1		X								
6223 6-9 BGL	9:22 6/7	"	1	X									
6224 3'-6 BGL	8:35 6/7	"	1	X									
6224 5.5-6.5 BGL	8:55 6/7	"	1	X									
6225 0-3 BGL	8:07 6/7	"	1	X									
6225 3'-5 BGL	8:14 6/7	"	1	X									
6226 0-3 BGL	7:34 6/7	"	1	X									
6226 5-6 BGL	7:39 6/7	"	1	X	X								
6227 0-3 BGL	7:18 6/7	"	1	X									
6227 4-5 BGL	7:25 6/7	"	1	X									
6227 5-6' BGL	7:20 6/7	"	1	X									

Notes:

Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

Version: 4/4/2008

Page -7

State of Oregon Sample Chain of Custody

Agency, Authorized Purchaser or Agent: ODOT **Send Lab Report To:** ODOT	**Contract Laboratory Name:** PACE **Lab Batch #:**	**Lab Selection Criteria:** ☐ Proximity (if TAT < 72 hrs) ☐ Prior work on same project	**Turn Around Time:** X☐ 10 days (std.) ☐ 5 days
Address: 3500 Stewart Parkway Roseburg, Oregon 97470 Tel. #: E-mail:	**Invoice To:** Address: SAME Tel. #:	X☐ Cost (for anticipated analyses) ☐ Other labs disqualified or unable to perform requested services ☐ Emergency work	☐ 72 hours ☐ 48 hours ☐ 24 hours ☐ Other

Project Name: Hwy 62 Phase-1
Project #:
Sampler Name: Kenny Camp

Sample ID#	Collection Date/Time	Matrix	Number of Containers	NWTPH - HCID	Metals Total RCRA 8	SVOC 8270 Full list								Comments
6228 0-3' BGL	11:04 6/6	Soil	1	X										
6228 4-5 BGL	11:11 6/6	"	1	X										
6229 0-3 BGL	11:25 6/6	"	1		X									
6229 4'5 BGL	11:30 6/6	"	1	X										
6230 0-3 BGL	10:36 6/6	"	1			X								
6230 4'-5 BGL	10:45 6/6	"	1	X	X									
6231 0-3 BGL	9:55 6/6	"	1	X		X								
6232 3-6 BGL	9:18 6/6	"	1		X									
6233 0-3 BGL	8:51 6/6	"	1	X										
6234 0-3 BGL	8:26 6/6	"	1	X										
6234 3-4' BGL	8:30 6/6	"	1		X									
6235 0-3' BGL	7:55 6/6	"	1	X		X								

Sample Preservative: (blank)

Notes:

Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

Page - 8

State of Oregon Sample Chain of Custody

Agency, Authorized Purchaser or Agent: ODOT	**Contract Laboratory Name:** PACE	**Lab Selection Criteria:** ☐ Proximity (if TAT < 72 hrs) ☐ ~~Prior work on same project~~	**Turn Around Time:** X☐ 10 days (std.) ☐ ~~5 days~~
~~**Send Lab Report To:** ODOT~~ Address: 3500 Stewart Parkway, Roseburg, Oregon 97470 Tel. #: E-mail:	~~**Lab Batch #:**~~ **Invoice To:** Address: SAME Tel. #:	X☐ Cost (for anticipated analyses) ☐ Other labs disqualified or unable to perform requested services ☐ Emergency work	☐ 72 hours ☐ 48 hours ☐ 24 hours ☐ Other

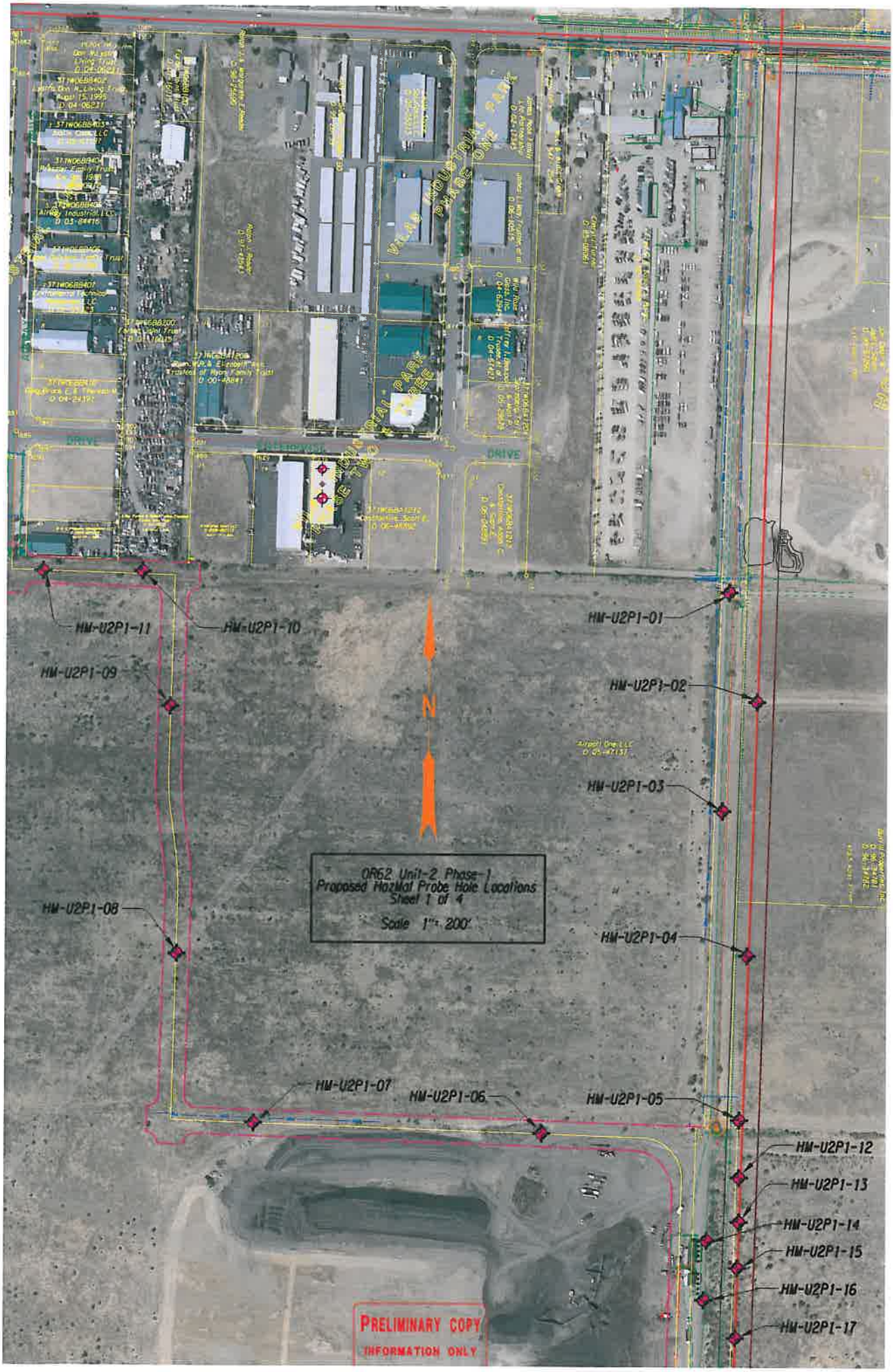
Project Name: Hwy 62 Phase-1
Project #:
Sampler Name: Kenny Camp

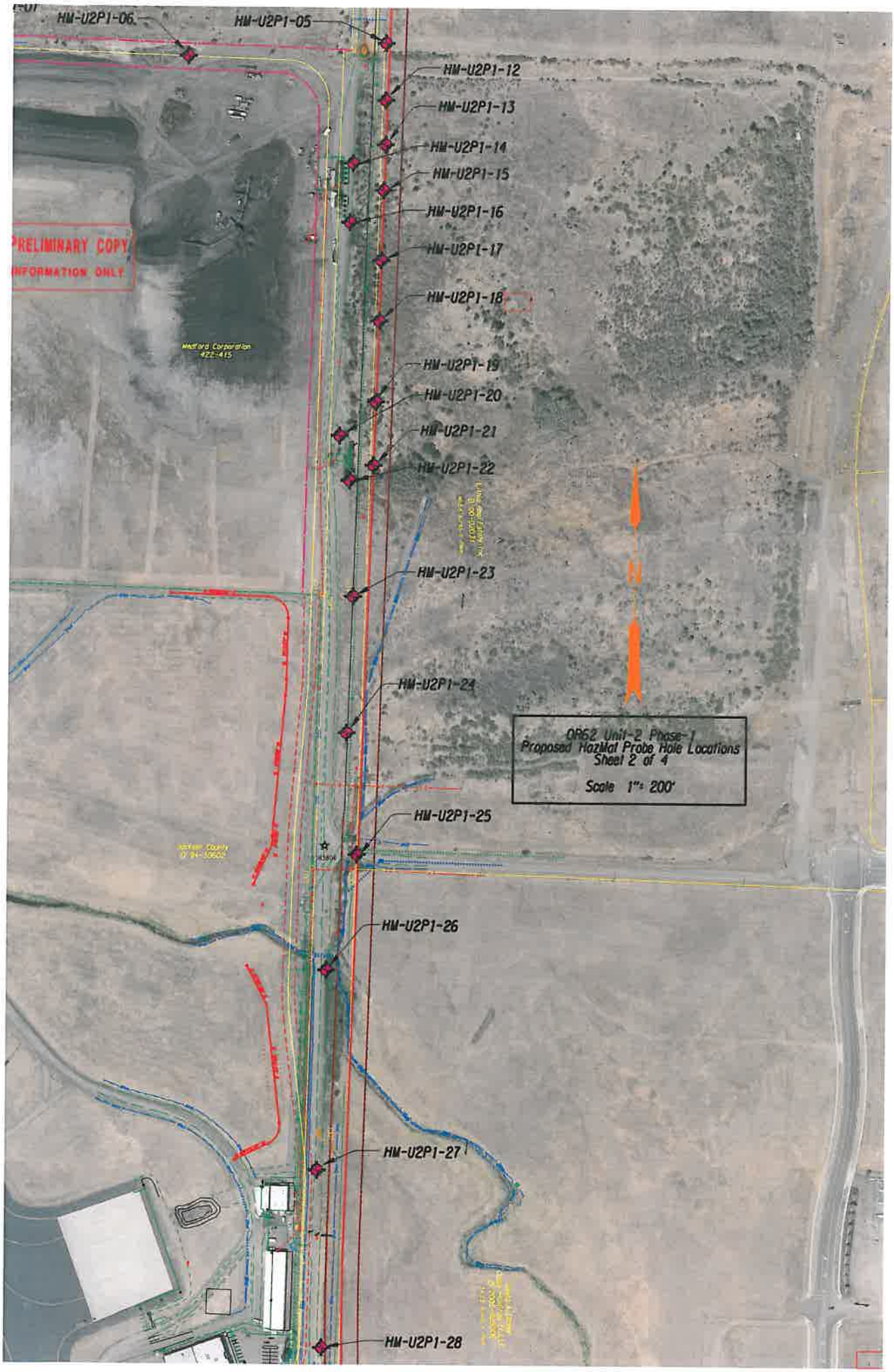
Sample ID#	Collection Date/Time	Matrix	Number of Containers	NWTPH HCID	Metals 8 Total + Tox									Comments
6235 3-6' BGL	7:58 6/6	Soil	1	X										
6235 6-9 BGL	8:03 6/6	"	1	X										
6236 0-3' BGL	7:07 6/6	"	1	X										
6236 4-5 BGL	7:12 6/6	"	1	X	X									

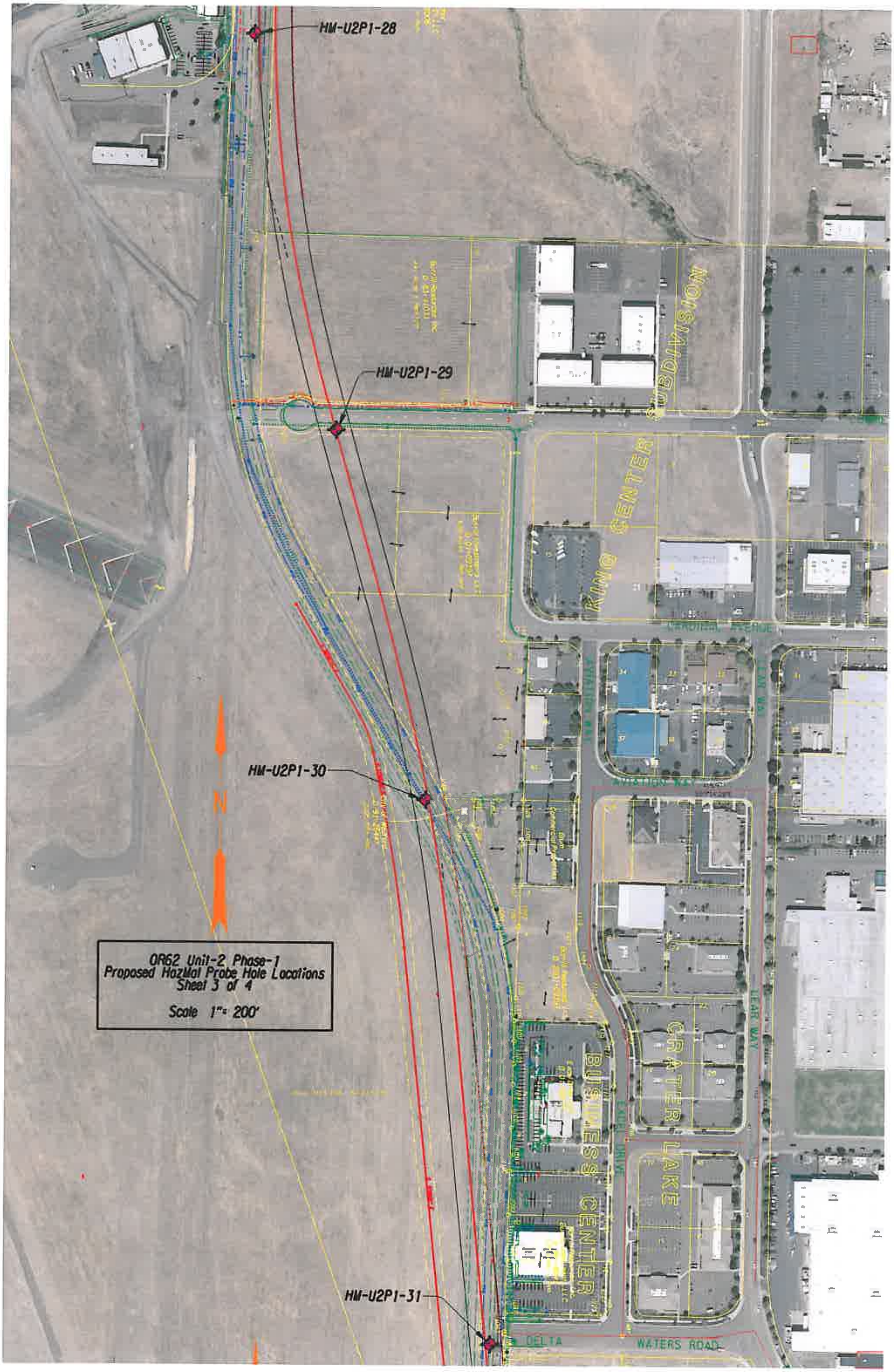
(Sample Preservative: blank)

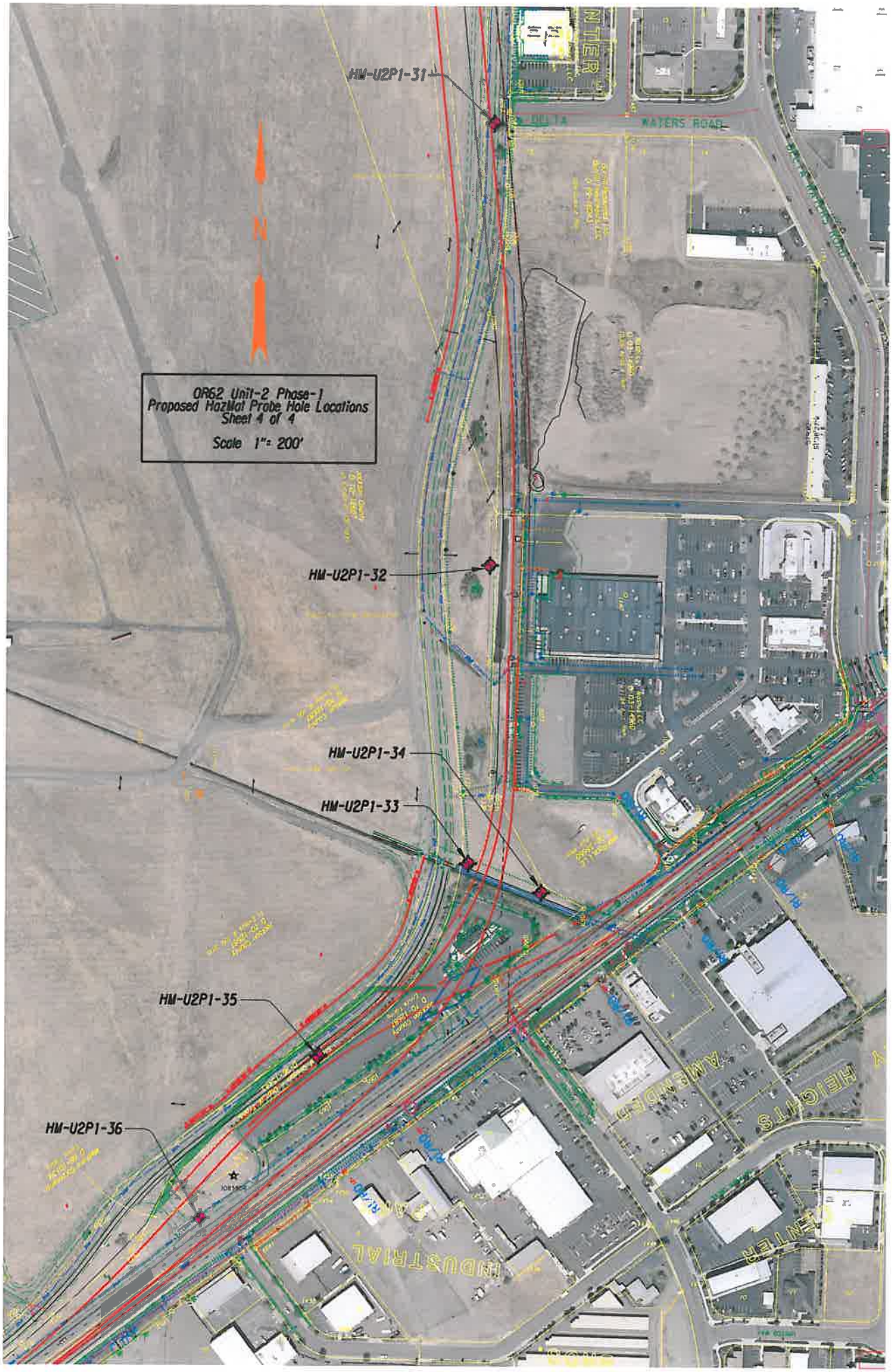
Notes:

Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:


HM-U2P1-01
HM-U2P1-02
HM-U2P1-03
HM-U2P1-04
HM-U2P1-05
HM-U2P1-06
HM-U2P1-07
HM-U2P1-08
HM-U2P1-09
HM-U2P1-10
HM-U2P1-11
HM-U2P1-12
HM-U2P1-13
HM-U2P1-14
HM-U2P1-15
HM-U2P1-16
HM-U2P1-17
N
OR62 Unit-2 Phase-1
Proposed HazMat Probe Hole Locations
Sheet 1 of 4
Scale 1"= 200'
PRELIMINARY COPY
INFORMATION ONLY


HM-U2P1-06
HM-U2P1-05
HM-U2P1-12
HM-U2P1-13
HM-U2P1-14
HM-U2P1-15
HM-U2P1-16
HM-U2P1-17
HM-U2P1-18
HM-U2P1-19
HM-U2P1-20
HM-U2P1-21
HM-U2P1-22
HM-U2P1-23
HM-U2P1-24
HM-U2P1-25
HM-U2P1-26
HM-U2P1-27
HM-U2P1-28
PRELIMINARY COPY
INFORMATION ONLY
QR52 Unit-2 Phase-1
Proposed HazMat Probe Hole Locations
Sheet 2 of 4
Scale 1"= 200'


HM-U2P1-28
HM-U2P1-29
HM-U2P1-30
HM-U2P1-31
KING CENTER SUBDIVISION
CARDINAL AVENUE
AVIATION WAY
LEAR WAY
CRATER LAKE BUSINESS CENTER
DELTA WATERS ROAD
N
OR62 Unit-2 Phase-1
Proposed HazMat Probe Hole Locations
Sheet 3 of 4
Scale 1"= 200'


HW-U2P1-31
HW-U2P1-32
HW-U2P1-34
HW-U2P1-33
HW-U2P1-35
HW-U2P1-36
WATERS ROAD
INDUSTRIAL
HEIGHTS
AMENDED
CENTER
OR62 Unit-2 Phase-1
Proposed HazMat Probe Hole Locations
Sheet 4 of 4
Scale 1"= 200'

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

June 24, 2011

Kenny Camp
ODOT
3500 NW Stewart Pkwy
Roseburg, OR 97470

RE: Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Dear Kenny Camp:
Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Brownfield

Andy Brownfield

andy.brownfield@pacelabs.com
Project Manager

Enclosures

cc: Jennie Armstrong, ODOT

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

CERTIFICATIONS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Washington Certification IDs
940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
Alaska Drinking Water VOC Certification #: WA01230
Alaska Drinking Water Micro Certification #: WA01230
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C1229

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

SAMPLE ANALYTE COUNT

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
258066001	Stockpile 6223 C/L	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066002	Stockpile 6224 N	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066003	6201 0-3 BGL	NWTPH-Dx	AY1	4	PASI-S
		EPA 8270	ERB	72	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066004	6201 3'-5.5 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066005	6201B 0'-3 BGL	NWTPH-Dx	AY1	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066006	6201B 4'-5' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066007	6201B 5'-6' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066008	6201C 0'-3 BGL	NWTPH-Dx	AY1	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066009	6202 0-3 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066010	6202B 0-3 BGL	NWTPH-Dx	AY1	4	PASI-S
		EPA 8270 by SIM	ERB	20	PASI-S
		EPA 8270	ERB	54	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066011	6203 1-2 BGL	NWTPH-Dx	AY1	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066012	6203 2'-3' BGL	NWTPH-Dx	AY1	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066013	6203 3'-6 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066014	6203 6'-6.5 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066015	6204 0'-2 BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066016	6205 0'-3' BGL	EPA 8082	ERB	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066017	6205 4'-5' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066018	6205 5'-6' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066019	6205 8'-9' BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

SAMPLE ANALYTE COUNT

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	KJ1	1	PASI-S
258066020	6206 1'-2' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066021	6206 2'-3' BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066022	6207 0'-2.5 BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066023	6208 0'-3' BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066024	6208 4'-5' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066025	6209 0-3 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066026	6209 3-4' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066027	6210 0-3 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066028	6210 3-4 BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066029	6211 0-3 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066030	6211 4'-5' BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066031	6212 0-3 BGL	EPA 8270 by SIM	ERB	20	PASI-S
		EPA 8270	ERB	54	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066032	6212 3'-4.3 BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066033	6213 0-3 BGL	EPA 8270 by SIM	ERB	20	PASI-S
		EPA 8270	ERB	54	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066034	6213 4'-5 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066035	6213 5'-6 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066036	6214 0-3' BGL	NWTPH-Dx	AY1	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066037	6214 4-5' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066038	6214 5'-6' BGL	ASTM D2974-87	KJ1	1	PASI-S

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

SAMPLE ANALYTE COUNT

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
258066039	6214 8'-9' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066040	6215 0-3' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066041	6215 3'-4.5 BGL	EPA 8270 by SIM	ERB	20	PASI-S
		EPA 8270	ERB	54	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066042	6216 0-3' BGL	EPA 8082	ERB	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066043	6216 5-6' BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066044	6216 7'-8' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066045	6217 2'-3 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066046	6217 4-5 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066047	6218 3'-6 BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066048	6218 7-8' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066049	6219 0-3 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066050	6219 3'-6 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066051	6220 0-3 BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066052	6220 5'-6 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066053	6220 8-9 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066054	6221 0-3 BGL	EPA 8270 by SIM	ERB	20	PASI-S
		EPA 8270	ERB	54	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066055	6221 3-4.3 BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066056	6222 0-3' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066057	6222 4-5 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066058	6222 5'-6 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066059	6222 11'-12' BGL	EPA 8270 by SIM	ERB	20	PASI-S
		EPA 8270	ERB	54	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

SAMPLE ANALYTE COUNT

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
258066060	6223 0-3 BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066061	6223 6-9 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066062	6224 3'-6 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066063	6224 5.5-6.5 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066064	6225 0-3 BGL	NWTPH-Dx	AY1	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066065	6225 3'-5 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066066	6226 0-3 BGL	NWTPH-Dx	AY1	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066067	6226 5-6 BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066068	6227 0-3 BGL	NWTPH-Dx	AY1	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066069	6227 4-5 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066070	6227 5-6 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066071	6228 0-3' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066072	6228 4-5 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066073	6229 0-3 BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066074	6229 4'-5 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066075	6230 0-3 BGL	NWTPH-Dx	AY1	4	PASI-S
		EPA 8270 by SIM	ERB	20	PASI-S
		EPA 8270	ERB	48	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066076	6230 4'-5 BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066077	6231 0-3 BGL	NWTPH-Dx	AY1	4	PASI-S
		EPA 8270 by SIM	ERB	20	PASI-S
		EPA 8270	ERB	54	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066078	6232 3-6 BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

SAMPLE ANALYTE COUNT

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	KJ1	1	PASI-S
258066079	6233 0-3 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066080	6234 0-3 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066081	6234 3-4' BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066082	6235 0-3' BGL	EPA 8082	ERB	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 8270 by SIM	ERB	20	PASI-S
		EPA 8270	ERB	54	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066083	6235 3-6' BGL	ASTM D2974-87	KJ1	1	PASI-S
258066084	6235 6-9 BGL	ASTM D2974-87	KJ1	1	PASI-S
258066085	6236 0-3' BGL	NWTPH-Dx	AY1	4	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S
258066086	6236 4-5 BGL	EPA 6010	BGA	7	PASI-S
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	KJ1	1	PASI-S

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: Stockpile 6223 C/L **Lab ID: 258066001** Collected: 06/07/11 08:50 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	13.1	5	06/16/11 07:52	06/17/11 10:06	7440-38-2	
Barium	**279**	mg/kg	26.2	1	06/16/11 07:52	06/17/11 12:04	7440-39-3	
Cadmium	ND	mg/kg	6.6	5	06/16/11 07:52	06/17/11 10:06	7440-43-9	
Chromium	**56.4**	mg/kg	1.3	1	06/16/11 07:52	06/17/11 12:04	7440-47-3	
Lead	**7.4**	mg/kg	1.3	1	06/16/11 07:52	06/17/11 12:04	7439-92-1	
Selenium	ND	mg/kg	6.6	5	06/16/11 07:52	06/17/11 10:06	7782-49-2	
Silver	ND	mg/kg	6.6	5	06/16/11 07:52	06/17/11 10:06	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.13	1	06/20/11 15:17	06/21/11 11:32	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**27.4**	%	0.10	1		06/13/11 16:19		

Sample: Stockpile 6224 N **Lab ID: 258066002** Collected: 06/07/11 08:32 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	12.5	5	06/16/11 07:52	06/17/11 10:10	7440-38-2	
Barium	**619**	mg/kg	125	5	06/16/11 07:52	06/17/11 10:10	7440-39-3	
Cadmium	ND	mg/kg	6.3	5	06/16/11 07:52	06/17/11 10:10	7440-43-9	
Chromium	**51.3**	mg/kg	1.3	1	06/16/11 07:52	06/17/11 12:13	7440-47-3	
Lead	**6.8**	mg/kg	6.3	5	06/16/11 07:52	06/17/11 10:10	7439-92-1	
Selenium	ND	mg/kg	6.3	5	06/16/11 07:52	06/17/11 10:10	7782-49-2	
Silver	ND	mg/kg	6.3	5	06/16/11 07:52	06/17/11 10:10	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.090	1	06/20/11 15:17	06/21/11 11:34	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**27.4**	%	0.10	1		06/13/11 16:19		

Sample: 6201 0-3 BGL **Lab ID: 258066003** Collected: 06/06/11 12:50 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**292**	mg/kg	78.6	5	06/17/11 10:15	06/18/11 04:20		
Motor Oil Range	**849**	mg/kg	314	5	06/17/11 10:15	06/18/11 04:20	64742-65-0	
n-Octacosane (S)	103	%	50-150	5	06/17/11 10:15	06/18/11 04:20	630-02-4	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6201 0-3 BGL **Lab ID: 258066003** Collected: 06/06/11 12:50 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
o-Terphenyl (S)	104	%	50-150	5	06/17/11 10:15	06/18/11 04:20	84-15-1	
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	83-32-9	
Acenaphthylene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	208-96-8	
Anthracene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	120-12-7	
Benzo(a)anthracene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	56-55-3	
Benzo(a)pyrene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	207-08-9	
Benzoic acid	ND	ug/kg	1720	1	06/14/11 15:15	06/21/11 02:13	65-85-0	
Benzyl alcohol	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	101-55-3	
Butylbenzylphthalate	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	59-50-7	
4-Chloroaniline	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	39638-32-9	
2-Chloronaphthalene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	91-58-7	
2-Chlorophenol	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	7005-72-3	
Chrysene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	53-70-3	
Dibenzofuran	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	120-83-2	
Diethylphthalate	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	105-67-9	
Dimethylphthalate	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	131-11-3	
Di-n-butylphthalate	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	699	1	06/14/11 15:15	06/21/11 02:13	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	606-20-2	
Di-n-octylphthalate	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	117-84-0	
bis(2-Ethylhexyl)phthalate	**800**	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	117-81-7	
Fluoranthene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	206-44-0	
Fluorene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	87-68-3	
Hexachlorobenzene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	77-47-4	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6201 0-3 BGL **Lab ID: 258066003** Collected: 06/06/11 12:50 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Hexachloroethane	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	193-39-5	
Isophorone	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	78-59-1	
1-Methylnaphthalene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	90-12-0	
2-Methylnaphthalene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13		
Naphthalene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	91-20-3	
2-Nitroaniline	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	88-74-4	
3-Nitroaniline	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	99-09-2	
4-Nitroaniline	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	100-01-6	
Nitrobenzene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	98-95-3	
2-Nitrophenol	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	88-75-5	
4-Nitrophenol	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	86-30-6	
Pentachlorophenol	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	87-86-5	
Phenanthrene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	85-01-8	
Phenol	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	108-95-2	
Pyrene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	344	1	06/14/11 15:15	06/21/11 02:13	88-06-2	
Nitrobenzene-d5 (S)	75	%	40-138	1	06/14/11 15:15	06/21/11 02:13	4165-60-0	
2-Fluorobiphenyl (S)	80	%	46-118	1	06/14/11 15:15	06/21/11 02:13	321-60-8	
Terphenyl-d14 (S)	80	%	41-137	1	06/14/11 15:15	06/21/11 02:13	1718-51-0	
Phenol-d6 (S)	78	%	44-120	1	06/14/11 15:15	06/21/11 02:13	13127-88-3	
2-Fluorophenol (S)	77	%	37-117	1	06/14/11 15:15	06/21/11 02:13	367-12-4	
2,4,6-Tribromophenol (S)	80	%	26-135	1	06/14/11 15:15	06/21/11 02:13	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**4.2**	%	0.10	1		06/13/11 16:20		

Sample: 6201 3'-5.5 BGL **Lab ID: 258066004** Collected: 06/06/11 12:55 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.0**	%	0.10	1		06/13/11 16:20		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6201B 0'-3 BGL **Lab ID: 258066005** Collected: 06/06/11 13:57 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**256**	mg/kg	82.9	5	06/17/11 10:15	06/18/11 04:37		
Motor Oil Range	**1300**	mg/kg	332	5	06/17/11 10:15	06/18/11 04:37	64742-65-0	
n-Octacosane (S)	108	%	50-150	5	06/17/11 10:15	06/18/11 04:37	630-02-4	
o-Terphenyl (S)	104	%	50-150	5	06/17/11 10:15	06/18/11 04:37	84-15-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.3**	%	0.10	1		06/13/11 16:21		

Sample: 6201B 4'-5' BGL **Lab ID: 258066006** Collected: 06/06/11 14:02 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**28.6**	%	0.10	1		06/13/11 16:22		

Sample: 6201B 5'-6' BGL **Lab ID: 258066007** Collected: 06/06/11 14:02 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.2**	%	0.10	1		06/13/11 16:22		

Sample: 6201C 0'-3 BGL **Lab ID: 258066008** Collected: 06/06/11 14:18 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**546**	mg/kg	84.4	5	06/17/11 10:15	06/18/11 04:53		
Motor Oil Range	**1780**	mg/kg	337	5	06/17/11 10:15	06/18/11 04:53	64742-65-0	
n-Octacosane (S)	112	%	50-150	5	06/17/11 10:15	06/18/11 04:53	630-02-4	
o-Terphenyl (S)	105	%	50-150	5	06/17/11 10:15	06/18/11 04:53	84-15-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.0**	%	0.10	1		06/13/11 16:23		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6202 0-3 BGL **Lab ID: 258066009** Collected: 06/06/11 13:12 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**31.1**	%	0.10	1		06/13/11 16:24		

Sample: 6202B 0-3 BGL **Lab ID: 258066010** Collected: 06/06/11 14:45 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**243**	mg/kg	79.6	5	06/17/11 10:15	06/18/11 05:25		
Motor Oil Range	**655**	mg/kg	318	5	06/17/11 10:15	06/18/11 05:25	64742-65-0	
n-Octacosane (S)	100	%	50-150	5	06/17/11 10:15	06/18/11 05:25	630-02-4	
o-Terphenyl (S)	102	%	50-150	5	06/17/11 10:15	06/18/11 05:25	84-15-1	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	83-32-9	
Acenaphthylene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	208-96-8	
Anthracene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	50-32-8	
Benzo(b)fluoranthene	**7.7**	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	205-99-2	
Benzo(g,h,i)perylene	**9.1**	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	207-08-9	
Chrysene	**28.5**	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	53-70-3	
Fluoranthene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	206-44-0	
Fluorene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	193-39-5	
1-Methylnaphthalene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	90-12-0	
2-Methylnaphthalene	**8.5**	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	91-57-6	
Naphthalene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	91-20-3	
Phenanthrene	**19.4**	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	85-01-8	
Pyrene	**24.7**	ug/kg	7.2	1	06/14/11 15:15	06/15/11 17:30	129-00-0	
2-Fluorobiphenyl (S)	76	%	31-131	1	06/14/11 15:15	06/15/11 17:30	321-60-8	
Terphenyl-d14 (S)	80	%	30-133	1	06/14/11 15:15	06/15/11 17:30	1718-51-0	
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Benzoic acid	ND	ug/kg	1760	1	06/14/11 15:15	06/21/11 03:20	65-85-0	
Benzyl alcohol	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	101-55-3	
Butylbenzylphthalate	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	59-50-7	
4-Chloroaniline	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	111-44-4	

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6202B 0-3 BGL **Lab ID: 258066010** Collected: 06/06/11 14:45 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
bis(2-Chloroisopropyl) ether	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	39638-32-9	
2-Chloronaphthalene	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	91-58-7	
2-Chlorophenol	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	7005-72-3	
Dibenzofuran	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	120-83-2	
Diethylphthalate	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	105-67-9	
Dimethylphthalate	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	131-11-3	
Di-n-butylphthalate	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	715	1	06/14/11 15:15	06/21/11 03:20	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	606-20-2	
Di-n-octylphthalate	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	87-68-3	
Hexachlorobenzene	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	77-47-4	
Hexachloroethane	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	67-72-1	
Isophorone	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20		
2-Nitroaniline	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	88-74-4	
3-Nitroaniline	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	99-09-2	
4-Nitroaniline	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	100-01-6	
Nitrobenzene	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	98-95-3	
2-Nitrophenol	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	88-75-5	
4-Nitrophenol	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	86-30-6	
Pentachlorophenol	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	87-86-5	
Phenol	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	352	1	06/14/11 15:15	06/21/11 03:20	88-06-2	
Nitrobenzene-d5 (S)	86	%	40-138	1	06/14/11 15:15	06/21/11 03:20	4165-60-0	
2-Fluorobiphenyl (S)	93	%	46-118	1	06/14/11 15:15	06/21/11 03:20	321-60-8	
Terphenyl-d14 (S)	93	%	41-137	1	06/14/11 15:15	06/21/11 03:20	1718-51-0	
Phenol-d6 (S)	88	%	44-120	1	06/14/11 15:15	06/21/11 03:20	13127-88-3	
2-Fluorophenol (S)	87	%	37-117	1	06/14/11 15:15	06/21/11 03:20	367-12-4	
2,4,6-Tribromophenol (S)	97	%	26-135	1	06/14/11 15:15	06/21/11 03:20	118-79-6	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6202B 0-3 BGL **Lab ID: 258066010** Collected: 06/06/11 14:45 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.4**	%	0.10	1		06/13/11 16:24		

Sample: 6203 1-2 BGL **Lab ID: 258066011** Collected: 06/06/11 15:16 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**181**	mg/kg	16.3	1	06/17/11 10:15	06/18/11 05:41		
Motor Oil Range	**385**	mg/kg	65.3	1	06/17/11 10:15	06/18/11 05:41	64742-65-0	
n-Octacosane (S)	108	%	50-150	1	06/17/11 10:15	06/18/11 05:41	630-02-4	
o-Terphenyl (S)	106	%	50-150	1	06/17/11 10:15	06/18/11 05:41	84-15-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**5.8**	%	0.10	1		06/13/11 16:24		

Sample: 6203 2'-3' BGL **Lab ID: 258066012** Collected: 06/06/11 15:16 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**129**	mg/kg	16.0	1	06/17/11 10:15	06/18/11 05:58		
Motor Oil Range	**257**	mg/kg	63.9	1	06/17/11 10:15	06/18/11 05:58	64742-65-0	
n-Octacosane (S)	107	%	50-150	1	06/17/11 10:15	06/18/11 05:58	630-02-4	
o-Terphenyl (S)	101	%	50-150	1	06/17/11 10:15	06/18/11 05:58	84-15-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.6**	%	0.10	1		06/13/11 16:25		

Sample: 6203 3'-6 BGL **Lab ID: 258066013** Collected: 06/06/11 15:21 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.1**	%	0.10	1		06/13/11 16:29		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6203 6'-6.5 BGL **Lab ID: 258066014** Collected: 06/06/11 15:25 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**30.7**	%	0.10	1		06/13/11 16:29		

Sample: 6204 0'-2 BGL **Lab ID: 258066015** Collected: 06/06/11 13:35 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	12.4	5	06/16/11 07:52	06/17/11 10:19	7440-38-2	
Barium	**172**	mg/kg	24.7	1	06/16/11 07:52	06/17/11 12:16	7440-39-3	
Cadmium	ND	mg/kg	6.2	5	06/16/11 07:52	06/17/11 10:19	7440-43-9	
Chromium	**143**	mg/kg	1.2	1	06/16/11 07:52	06/17/11 12:16	7440-47-3	
Lead	**8.9**	mg/kg	6.2	5	06/16/11 07:52	06/17/11 10:19	7439-92-1	
Selenium	ND	mg/kg	6.2	5	06/16/11 07:52	06/17/11 10:19	7782-49-2	
Silver	ND	mg/kg	6.2	5	06/16/11 07:52	06/17/11 10:19	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.083	1	06/20/11 15:17	06/21/11 11:36	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.4**	%	0.10	1		06/13/11 16:30		

Sample: 6205 0'-3' BGL **Lab ID: 258066016** Collected: 06/06/11 16:07 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB S	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	17.8	1	06/20/11 10:20	06/22/11 14:19	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	17.8	1	06/20/11 10:20	06/22/11 14:19	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	17.8	1	06/20/11 10:20	06/22/11 14:19	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	17.8	1	06/20/11 10:20	06/22/11 14:19	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	17.8	1	06/20/11 10:20	06/22/11 14:19	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	17.8	1	06/20/11 10:20	06/22/11 14:19	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	17.8	1	06/20/11 10:20	06/22/11 14:19	11096-82-5	
Tetrachloro-m-xylene (S)	68	%	29-128	1	06/20/11 10:20	06/22/11 14:19	877-09-8	
Decachlorobiphenyl (S)	64	%	23-129	1	06/20/11 10:20	06/22/11 14:19	2051-24-3	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**1460**	mg/kg	82.4	5	06/17/11 10:15	06/18/11 06:14		
Motor Oil Range	**2330**	mg/kg	330	5	06/17/11 10:15	06/18/11 06:14	64742-65-0	
n-Octacosane (S)	112	%	50-150	5	06/17/11 10:15	06/18/11 06:14	630-02-4	
o-Terphenyl (S)	113	%	50-150	5	06/17/11 10:15	06/18/11 06:14	84-15-1	

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6205 0'-3' BGL **Lab ID: 258066016** Collected: 06/06/11 16:07 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**5.7**	%	0.10	1		06/13/11 16:30		

Sample: 6205 4'-5' BGL **Lab ID: 258066017** Collected: 06/06/11 16:12 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**25.8**	%	0.10	1		06/13/11 16:31		

Sample: 6205 5'-6' BGL **Lab ID: 258066018** Collected: 06/06/11 16:12 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.4**	%	0.10	1		06/13/11 16:32		

Sample: 6205 8'-9' BGL **Lab ID: 258066019** Collected: 06/06/11 16:16 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	10.8	5	06/16/11 07:52	06/17/11 10:22	7440-38-2	
Barium	**83.7**	mg/kg	21.7	1	06/16/11 07:52	06/17/11 12:20	7440-39-3	
Cadmium	ND	mg/kg	5.4	5	06/16/11 07:52	06/17/11 10:22	7440-43-9	
Chromium	**96.7**	mg/kg	1.1	1	06/16/11 07:52	06/17/11 12:20	7440-47-3	
Lead	**23.5**	mg/kg	5.4	5	06/16/11 07:52	06/17/11 10:22	7439-92-1	
Selenium	ND	mg/kg	5.4	5	06/16/11 07:52	06/17/11 10:22	7782-49-2	
Silver	ND	mg/kg	5.4	5	06/16/11 07:52	06/17/11 10:22	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.097	1	06/20/11 15:17	06/21/11 11:43	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.1**	%	0.10	1		06/13/11 16:33		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6206 1'-2' BGL **Lab ID: 258066020** Collected: 06/07/11 12:28 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**27.0**	%	0.10	1		06/13/11 16:34		

Sample: 6206 2'-3' BGL **Lab ID: 258066021** Collected: 06/07/11 12:28 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	8.2	5	06/16/11 07:52	06/17/11 10:25	7440-38-2	
Barium	**103**	mg/kg	16.4	1	06/16/11 07:52	06/17/11 12:23	7440-39-3	
Cadmium	ND	mg/kg	4.1	5	06/16/11 07:52	06/17/11 10:25	7440-43-9	
Chromium	**35.6**	mg/kg	0.82	1	06/16/11 07:52	06/17/11 12:23	7440-47-3	
Lead	**4.4**	mg/kg	4.1	5	06/16/11 07:52	06/17/11 10:25	7439-92-1	
Selenium	ND	mg/kg	4.1	5	06/16/11 07:52	06/17/11 10:25	7782-49-2	
Silver	ND	mg/kg	4.1	5	06/16/11 07:52	06/17/11 10:25	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.094	1	06/20/11 15:17	06/21/11 10:32	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.4**	%	0.10	1		06/13/11 16:34		

Sample: 6207 0'-2.5 BGL **Lab ID: 258066022** Collected: 06/07/11 12:40 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	11.3	5	06/16/11 07:52	06/17/11 10:29	7440-38-2	
Barium	**272**	mg/kg	22.6	1	06/16/11 07:52	06/17/11 12:26	7440-39-3	
Cadmium	ND	mg/kg	5.7	5	06/16/11 07:52	06/17/11 10:29	7440-43-9	
Chromium	**70.7**	mg/kg	1.1	1	06/16/11 07:52	06/17/11 12:26	7440-47-3	
Lead	**16.3**	mg/kg	5.7	5	06/16/11 07:52	06/17/11 10:29	7439-92-1	
Selenium	ND	mg/kg	5.7	5	06/16/11 07:52	06/17/11 10:29	7782-49-2	
Silver	ND	mg/kg	5.7	5	06/16/11 07:52	06/17/11 10:29	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.10	1	06/20/11 15:17	06/21/11 11:45	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.0**	%	0.10	1		06/13/11 16:35		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6208 0'-3' BGL **Lab ID: 258066023** Collected: 06/07/11 12:55 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	9.5	5	06/16/11 07:52	06/17/11 10:32	7440-38-2	
Barium	**271**	mg/kg	94.9	5	06/16/11 07:52	06/17/11 10:32	7440-39-3	
Cadmium	ND	mg/kg	4.7	5	06/16/11 07:52	06/17/11 10:32	7440-43-9	
Chromium	**78.0**	mg/kg	0.95	1	06/16/11 07:52	06/17/11 12:30	7440-47-3	
Lead	**11.1**	mg/kg	4.7	5	06/16/11 07:52	06/17/11 10:32	7439-92-1	
Selenium	ND	mg/kg	4.7	5	06/16/11 07:52	06/17/11 10:32	7782-49-2	
Silver	ND	mg/kg	4.7	5	06/16/11 07:52	06/17/11 10:32	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.12	1	06/20/11 15:17	06/21/11 11:47	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.8**	%	0.10	1		06/13/11 16:35		

Sample: 6208 4'-5' BGL **Lab ID: 258066024** Collected: 06/07/11 13:01 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**27.6**	%	0.10	1		06/14/11 16:01		

Sample: 6209 0-3 BGL **Lab ID: 258066025** Collected: 06/07/11 13:19 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**27.6**	%	0.10	1		06/14/11 16:01		

Sample: 6209 3-4' BGL **Lab ID: 258066026** Collected: 06/07/11 13:23 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.4**	%	0.10	1		06/14/11 16:02		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6210 0-3 BGL **Lab ID: 258066027** Collected: 06/07/11 13:49 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**30.6**	%	0.10	1		06/14/11 16:03		

Sample: 6210 3-4 BGL **Lab ID: 258066028** Collected: 06/07/11 13:57 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	11.2	5	06/16/11 07:52	06/17/11 10:35	7440-38-2	
Barium	**242**	mg/kg	22.5	1	06/16/11 07:52	06/17/11 12:33	7440-39-3	
Cadmium	ND	mg/kg	5.6	5	06/16/11 07:52	06/17/11 10:35	7440-43-9	
Chromium	**74.3**	mg/kg	1.1	1	06/16/11 07:52	06/17/11 12:33	7440-47-3	
Lead	ND	mg/kg	5.6	5	06/16/11 07:52	06/17/11 10:35	7439-92-1	
Selenium	ND	mg/kg	5.6	5	06/16/11 07:52	06/17/11 10:35	7782-49-2	
Silver	ND	mg/kg	5.6	5	06/16/11 07:52	06/17/11 10:35	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.099	1	06/20/11 15:17	06/21/11 11:49	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.1**	%	0.10	1		06/14/11 16:03		

Sample: 6211 0-3 BGL **Lab ID: 258066029** Collected: 06/07/11 14:09 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.9**	%	0.10	1		06/14/11 16:04		

Sample: 6211 4'-5' BGL **Lab ID: 258066030** Collected: 06/07/11 14:15 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	10.9	5	06/16/11 07:52	06/17/11 10:38	7440-38-2	
Barium	**95.6**	mg/kg	21.8	1	06/16/11 07:52	06/17/11 12:36	7440-39-3	
Cadmium	ND	mg/kg	5.4	5	06/16/11 07:52	06/17/11 10:38	7440-43-9	
Chromium	**62.3**	mg/kg	1.1	1	06/16/11 07:52	06/17/11 12:36	7440-47-3	
Lead	ND	mg/kg	5.4	5	06/16/11 07:52	06/17/11 10:38	7439-92-1	
Selenium	ND	mg/kg	5.4	5	06/16/11 07:52	06/17/11 10:38	7782-49-2	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6211 4'-5' BGL **Lab ID: 258066030** Collected: 06/07/11 14:15 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Silver	ND	mg/kg	5.4	5	06/16/11 07:52	06/17/11 10:38	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.095	1	06/20/11 15:17	06/21/11 10:41	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.4**	%	0.10	1		06/14/11 16:04		

Sample: 6212 0-3 BGL **Lab ID: 258066031** Collected: 06/07/11 14:49 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	83-32-9	
Acenaphthylene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	208-96-8	
Anthracene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	120-12-7	
Benzo(a)anthracene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	56-55-3	
Benzo(a)pyrene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	207-08-9	
Chrysene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	53-70-3	
Fluoranthene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	206-44-0	
Fluorene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	193-39-5	
1-Methylnaphthalene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	90-12-0	
2-Methylnaphthalene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	91-57-6	
Naphthalene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	91-20-3	
Phenanthrene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	85-01-8	
Pyrene	ND	ug/kg	9.6	1	06/14/11 15:15	06/15/11 17:47	129-00-0	
2-Fluorobiphenyl (S)	81	%	31-131	1	06/14/11 15:15	06/15/11 17:47	321-60-8	
Terphenyl-d14 (S)	73	%	30-133	1	06/14/11 15:15	06/15/11 17:47	1718-51-0	
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Benzoic acid	ND	ug/kg	2380	1	06/14/11 15:15	06/21/11 00:22	65-85-0	
Benzyl alcohol	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	101-55-3	
Butylbenzylphthalate	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	59-50-7	
4-Chloroaniline	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	111-44-4	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6212 0-3 BGL **Lab ID: 258066031** Collected: 06/07/11 14:49 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
bis(2-Chloroisopropyl) ether	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	39638-32-9	
2-Chloronaphthalene	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	91-58-7	
2-Chlorophenol	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	7005-72-3	
Dibenzofuran	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	120-83-2	
Diethylphthalate	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	105-67-9	
Dimethylphthalate	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	131-11-3	
Di-n-butylphthalate	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	967	1	06/14/11 15:15	06/21/11 00:22	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	606-20-2	
Di-n-octylphthalate	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	87-68-3	
Hexachlorobenzene	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	77-47-4	
Hexachloroethane	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	67-72-1	
Isophorone	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22		
2-Nitroaniline	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	88-74-4	
3-Nitroaniline	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	99-09-2	
4-Nitroaniline	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	100-01-6	
Nitrobenzene	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	98-95-3	
2-Nitrophenol	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	88-75-5	
4-Nitrophenol	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	86-30-6	
Pentachlorophenol	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	87-86-5	
Phenol	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	476	1	06/14/11 15:15	06/21/11 00:22	88-06-2	
Nitrobenzene-d5 (S)	83	%	40-138	1	06/14/11 15:15	06/21/11 00:22	4165-60-0	
2-Fluorobiphenyl (S)	84	%	46-118	1	06/14/11 15:15	06/21/11 00:22	321-60-8	
Terphenyl-d14 (S)	88	%	41-137	1	06/14/11 15:15	06/21/11 00:22	1718-51-0	
Phenol-d6 (S)	77	%	44-120	1	06/14/11 15:15	06/21/11 00:22	13127-88-3	
2-Fluorophenol (S)	74	%	37-117	1	06/14/11 15:15	06/21/11 00:22	367-12-4	
2,4,6-Tribromophenol (S)	85	%	26-135	1	06/14/11 15:15	06/21/11 00:22	118-79-6	

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6212 0-3 BGL **Lab ID: 258066031** Collected: 06/07/11 14:49 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**31.0**	%	0.10	1		06/14/11 16:05		

Sample: 6212 3'-4.3 BGL **Lab ID: 258066032** Collected: 06/07/11 14:52 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	10.2	5	06/16/11 07:52	06/17/11 10:41	7440-38-2	
Barium	**90.0**	mg/kg	20.5	1	06/16/11 07:52	06/17/11 12:39	7440-39-3	
Cadmium	ND	mg/kg	5.1	5	06/16/11 07:52	06/17/11 10:41	7440-43-9	
Chromium	**76.9**	mg/kg	1.0	1	06/16/11 07:52	06/17/11 12:39	7440-47-3	
Lead	ND	mg/kg	5.1	5	06/16/11 07:52	06/17/11 10:41	7439-92-1	
Selenium	ND	mg/kg	5.1	5	06/16/11 07:52	06/17/11 10:41	7782-49-2	
Silver	ND	mg/kg	5.1	5	06/16/11 07:52	06/17/11 10:41	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.096	1	06/20/11 15:17	06/21/11 11:52	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.7**	%	0.10	1		06/14/11 16:06		

Sample: 6213 0-3 BGL **Lab ID: 258066033** Collected: 06/07/11 14:39 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	83-32-9	
Acenaphthylene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	208-96-8	
Anthracene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	120-12-7	
Benzo(a)anthracene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	56-55-3	
Benzo(a)pyrene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	207-08-9	
Chrysene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	53-70-3	
Fluoranthene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	206-44-0	
Fluorene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	193-39-5	
1-Methylnaphthalene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	90-12-0	
2-Methylnaphthalene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	91-57-6	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6213 0-3 BGL **Lab ID: 258066033** Collected: 06/07/11 14:39 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Naphthalene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	91-20-3	
Phenanthrene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	85-01-8	
Pyrene	ND	ug/kg	9.5	1	06/14/11 15:15	06/15/11 18:03	129-00-0	
2-Fluorobiphenyl (S)	82	%	31-131	1	06/14/11 15:15	06/15/11 18:03	321-60-8	
Terphenyl-d14 (S)	79	%	30-133	1	06/14/11 15:15	06/15/11 18:03	1718-51-0	
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Benzoic acid	ND	ug/kg	2360	1	06/14/11 15:15	06/21/11 00:45	65-85-0	
Benzyl alcohol	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	101-55-3	
Butylbenzylphthalate	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	59-50-7	
4-Chloroaniline	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	39638-32-9	
2-Chloronaphthalene	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	91-58-7	
2-Chlorophenol	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	7005-72-3	
Dibenzofuran	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	120-83-2	
Diethylphthalate	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	105-67-9	
Dimethylphthalate	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	131-11-3	
Di-n-butylphthalate	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	959	1	06/14/11 15:15	06/21/11 00:45	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	606-20-2	
Di-n-octylphthalate	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	87-68-3	
Hexachlorobenzene	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	77-47-4	
Hexachloroethane	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	67-72-1	
Isophorone	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45		
2-Nitroaniline	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	88-74-4	
3-Nitroaniline	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	99-09-2	
4-Nitroaniline	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	100-01-6	
Nitrobenzene	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	98-95-3	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6213 0-3 BGL **Lab ID: 258066033** Collected: 06/07/11 14:39 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2-Nitrophenol	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	88-75-5	
4-Nitrophenol	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	86-30-6	
Pentachlorophenol	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	87-86-5	
Phenol	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	472	1	06/14/11 15:15	06/21/11 00:45	88-06-2	
Nitrobenzene-d5 (S)	82	%	40-138	1	06/14/11 15:15	06/21/11 00:45	4165-60-0	
2-Fluorobiphenyl (S)	78	%	46-118	1	06/14/11 15:15	06/21/11 00:45	321-60-8	
Terphenyl-d14 (S)	79	%	41-137	1	06/14/11 15:15	06/21/11 00:45	1718-51-0	
Phenol-d6 (S)	82	%	44-120	1	06/14/11 15:15	06/21/11 00:45	13127-88-3	
2-Fluorophenol (S)	81	%	37-117	1	06/14/11 15:15	06/21/11 00:45	367-12-4	
2,4,6-Tribromophenol (S)	84	%	26-135	1	06/14/11 15:15	06/21/11 00:45	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**30.2**	%	0.10	1		06/14/11 16:06		

Sample: 6213 4'-5 BGL **Lab ID: 258066034** Collected: 06/07/11 14:36 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.6**	%	0.10	1		06/13/11 16:36		

Sample: 6213 5'-6 BGL **Lab ID: 258066035** Collected: 06/07/11 14:36 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.5**	%	0.10	1		06/13/11 16:36		

Sample: 6214 0-3' BGL **Lab ID: 258066036** Collected: 06/06/11 16:42 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**324**	mg/kg	87.3	5	06/17/11 10:15	06/18/11 06:30		
Motor Oil Range	**937**	mg/kg	349	5	06/17/11 10:15	06/18/11 06:30	64742-65-0	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6214 0-3' BGL **Lab ID: 258066036** Collected: 06/06/11 16:42 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
n-Octacosane (S)	117	%	50-150	5	06/17/11 10:15	06/18/11 06:30	630-02-4	
o-Terphenyl (S)	109	%	50-150	5	06/17/11 10:15	06/18/11 06:30	84-15-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.7**	%	0.10	1		06/14/11 16:07		

Sample: 6214 4-5' BGL **Lab ID: 258066037** Collected: 06/06/11 16:44 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.6**	%	0.10	1		06/14/11 16:07		

Sample: 6214 5'-6' BGL **Lab ID: 258066038** Collected: 06/06/11 16:44 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.7**	%	0.10	1		06/14/11 16:08		

Sample: 6214 8'-9' BGL **Lab ID: 258066039** Collected: 06/06/11 16:49 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**27.5**	%	0.10	1		06/14/11 16:09		

Sample: 6215 0-3' BGL **Lab ID: 258066040** Collected: 06/08/11 07:59 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**27.4**	%	0.10	1		06/14/11 16:09		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6215 3'-4.5 BGL **Lab ID: 258066041** Collected: 06/08/11 08:05 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	83-32-9	
Acenaphthylene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	208-96-8	
Anthracene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	207-08-9	
Chrysene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	53-70-3	
Fluoranthene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	206-44-0	
Fluorene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	193-39-5	
1-Methylnaphthalene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	90-12-0	
2-Methylnaphthalene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	91-57-6	
Naphthalene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	91-20-3	
Phenanthrene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	85-01-8	
Pyrene	ND	ug/kg	7.9	1	06/14/11 15:15	06/16/11 16:33	129-00-0	
2-Fluorobiphenyl (S)	86	%	31-131	1	06/14/11 15:15	06/16/11 16:33	321-60-8	
Terphenyl-d14 (S)	87	%	30-133	1	06/14/11 15:15	06/16/11 16:33	1718-51-0	
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Benzoic acid	ND	ug/kg	1970	1	06/14/11 15:15	06/21/11 01:07	65-85-0	
Benzyl alcohol	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	101-55-3	
Butylbenzylphthalate	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	59-50-7	
4-Chloroaniline	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	39638-32-9	
2-Chloronaphthalene	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	91-58-7	
2-Chlorophenol	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	7005-72-3	
Dibenzofuran	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	120-83-2	
Diethylphthalate	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	105-67-9	
Dimethylphthalate	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	131-11-3	
Di-n-butylphthalate	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	800	1	06/14/11 15:15	06/21/11 01:07	51-28-5	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6215 3'-4.5 BGL **Lab ID: 258066041** Collected: 06/08/11 08:05 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrotoluene	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	606-20-2	
Di-n-octylphthalate	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	87-68-3	
Hexachlorobenzene	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	77-47-4	
Hexachloroethane	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	67-72-1	
Isophorone	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07		
2-Nitroaniline	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	88-74-4	
3-Nitroaniline	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	99-09-2	
4-Nitroaniline	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	100-01-6	
Nitrobenzene	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	98-95-3	
2-Nitrophenol	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	88-75-5	
4-Nitrophenol	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	86-30-6	
Pentachlorophenol	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	87-86-5	
Phenol	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	394	1	06/14/11 15:15	06/21/11 01:07	88-06-2	
Nitrobenzene-d5 (S)	82	%	40-138	1	06/14/11 15:15	06/21/11 01:07	4165-60-0	
2-Fluorobiphenyl (S)	82	%	46-118	1	06/14/11 15:15	06/21/11 01:07	321-60-8	
Terphenyl-d14 (S)	85	%	41-137	1	06/14/11 15:15	06/21/11 01:07	1718-51-0	
Phenol-d6 (S)	82	%	44-120	1	06/14/11 15:15	06/21/11 01:07	13127-88-3	
2-Fluorophenol (S)	83	%	37-117	1	06/14/11 15:15	06/21/11 01:07	367-12-4	
2,4,6-Tribromophenol (S)	85	%	26-135	1	06/14/11 15:15	06/21/11 01:07	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.2**	%	0.10	1		06/14/11 16:10		

Sample: 6216 0-3' BGL **Lab ID: 258066042** Collected: 06/07/11 11:13 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB S	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	18.0	1	06/20/11 10:20	06/22/11 14:39	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	18.0	1	06/20/11 10:20	06/22/11 14:39	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	18.0	1	06/20/11 10:20	06/22/11 14:39	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	18.0	1	06/20/11 10:20	06/22/11 14:39	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	18.0	1	06/20/11 10:20	06/22/11 14:39	12672-29-6	

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6216 0-3' BGL **Lab ID: 258066042** Collected: 06/07/11 11:13 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB S	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1254 (Aroclor 1254)	ND	ug/kg	18.0	1	06/20/11 10:20	06/22/11 14:39	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	18.0	1	06/20/11 10:20	06/22/11 14:39	11096-82-5	
Tetrachloro-m-xylene (S)	69	%	29-128	1	06/20/11 10:20	06/22/11 14:39	877-09-8	
Decachlorobiphenyl (S)	66	%	23-129	1	06/20/11 10:20	06/22/11 14:39	2051-24-3	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**208**	mg/kg	16.6	1	06/17/11 10:15	06/18/11 07:18		
Motor Oil Range	**427**	mg/kg	66.3	1	06/17/11 10:15	06/18/11 07:18	64742-65-0	
n-Octacosane (S)	104	%	50-150	1	06/17/11 10:15	06/18/11 07:18	630-02-4	
o-Terphenyl (S)	105	%	50-150	1	06/17/11 10:15	06/18/11 07:18	84-15-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.2**	%	0.10	1		06/14/11 16:10		

Sample: 6216 5-6' BGL **Lab ID: 258066043** Collected: 06/07/11 11:17 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	10.8	5	06/16/11 07:52	06/17/11 11:04	7440-38-2	
Barium	**82.0**	mg/kg	21.7	1	06/16/11 07:52	06/17/11 12:43	7440-39-3	
Cadmium	ND	mg/kg	5.4	5	06/16/11 07:52	06/17/11 11:04	7440-43-9	
Chromium	**75.7**	mg/kg	1.1	1	06/16/11 07:52	06/17/11 12:43	7440-47-3	
Lead	ND	mg/kg	5.4	5	06/16/11 07:52	06/17/11 11:04	7439-92-1	
Selenium	ND	mg/kg	5.4	5	06/16/11 07:52	06/17/11 11:04	7782-49-2	
Silver	ND	mg/kg	5.4	5	06/16/11 07:52	06/17/11 11:04	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.10	1	06/20/11 15:17	06/21/11 10:59	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.2**	%	0.10	1		06/14/11 16:11		

Sample: 6216 7'-8' BGL **Lab ID: 258066044** Collected: 06/07/11 11:19 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.9**	%	0.10	1		06/14/11 16:14		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6217 2'-3 BGL **Lab ID: 258066045** Collected: 06/08/11 08:15 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.6**	%	0.10	1		06/14/11 16:15		

Sample: 6217 4-5 BGL **Lab ID: 258066046** Collected: 06/08/11 08:18 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.4**	%	0.10	1		06/14/11 16:16		

Sample: 6218 3'-6 BGL **Lab ID: 258066047** Collected: 06/08/11 08:31 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	11.2	5	06/16/11 07:52	06/17/11 11:13	7440-38-2	
Barium	**106**	mg/kg	22.4	1	06/16/11 07:52	06/17/11 12:59	7440-39-3	
Cadmium	ND	mg/kg	5.6	5	06/16/11 07:52	06/17/11 11:13	7440-43-9	
Chromium	**93.1**	mg/kg	1.1	1	06/16/11 07:52	06/17/11 12:59	7440-47-3	
Lead	ND	mg/kg	5.6	5	06/16/11 07:52	06/17/11 11:13	7439-92-1	
Selenium	ND	mg/kg	5.6	5	06/16/11 07:52	06/17/11 11:13	7782-49-2	
Silver	ND	mg/kg	5.6	5	06/16/11 07:52	06/17/11 11:13	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.11	1	06/20/11 15:17	06/21/11 11:05	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**23.1**	%	0.10	1		06/14/11 16:16		

Sample: 6218 7-8' BGL **Lab ID: 258066048** Collected: 06/08/11 08:37 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**13.1**	%	0.10	1		06/14/11 16:17		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6219 0-3 BGL **Lab ID: 258066049** Collected: 06/08/11 08:48 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.1**	%	0.10	1		06/14/11 16:17		

Sample: 6219 3'-6 BGL **Lab ID: 258066050** Collected: 06/08/11 08:51 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.8**	%	0.10	1		06/14/11 16:18		

Sample: 6220 0-3 BGL **Lab ID: 258066051** Collected: 06/07/11 10:30 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	8.7	5	06/16/11 07:52	06/17/11 11:16	7440-38-2	
Barium	**86.3**	mg/kg	17.4	1	06/16/11 07:52	06/17/11 13:02	7440-39-3	
Cadmium	ND	mg/kg	4.3	5	06/16/11 07:52	06/17/11 11:16	7440-43-9	
Chromium	**31.9**	mg/kg	0.87	1	06/16/11 07:52	06/17/11 13:02	7440-47-3	
Lead	**10.0**	mg/kg	4.3	5	06/16/11 07:52	06/17/11 11:16	7439-92-1	
Selenium	ND	mg/kg	4.3	5	06/16/11 07:52	06/17/11 11:16	7782-49-2	
Silver	ND	mg/kg	4.3	5	06/16/11 07:52	06/17/11 11:16	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.081	1	06/20/11 15:17	06/21/11 11:08	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**13.6**	%	0.10	1		06/14/11 16:18		

Sample: 6220 5'-6 BGL **Lab ID: 258066052** Collected: 06/07/11 10:33 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.8**	%	0.10	1		06/14/11 16:18		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6220 8-9 BGL **Lab ID: 258066053** Collected: 06/07/11 10:35 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.1**	%	0.10	1		06/14/11 16:19		

Sample: 6221 0-3 BGL **Lab ID: 258066054** Collected: 06/08/11 09:05 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	83-32-9	
Acenaphthylene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	208-96-8	
Anthracene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	207-08-9	
Chrysene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	53-70-3	
Fluoranthene	**12.2**	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	206-44-0	
Fluorene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	193-39-5	
1-Methylnaphthalene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	90-12-0	
2-Methylnaphthalene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	91-57-6	
Naphthalene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	91-20-3	
Phenanthrene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	85-01-8	
Pyrene	ND	ug/kg	8.8	1	06/14/11 15:15	06/15/11 18:37	129-00-0	
2-Fluorobiphenyl (S)	73	%	31-131	1	06/14/11 15:15	06/15/11 18:37	321-60-8	
Terphenyl-d14 (S)	79	%	30-133	1	06/14/11 15:15	06/15/11 18:37	1718-51-0	
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Benzoic acid	ND	ug/kg	2160	1	06/14/11 15:15	06/21/11 01:29	65-85-0	
Benzyl alcohol	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	101-55-3	
Butylbenzylphthalate	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	59-50-7	
4-Chloroaniline	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	39638-32-9	
2-Chloronaphthalene	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	91-58-7	
2-Chlorophenol	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	7005-72-3	
Dibenzofuran	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	541-73-1	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6221 0-3 BGL **Lab ID: 258066054** Collected: 06/08/11 09:05 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
1,4-Dichlorobenzene	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	120-83-2	
Diethylphthalate	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	105-67-9	
Dimethylphthalate	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	131-11-3	
Di-n-butylphthalate	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	876	1	06/14/11 15:15	06/21/11 01:29	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	606-20-2	
Di-n-octylphthalate	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	87-68-3	
Hexachlorobenzene	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	77-47-4	
Hexachloroethane	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	67-72-1	
Isophorone	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29		
2-Nitroaniline	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	88-74-4	
3-Nitroaniline	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	99-09-2	
4-Nitroaniline	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	100-01-6	
Nitrobenzene	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	98-95-3	
2-Nitrophenol	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	88-75-5	
4-Nitrophenol	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	86-30-6	
Pentachlorophenol	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	87-86-5	
Phenol	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	431	1	06/14/11 15:15	06/21/11 01:29	88-06-2	
Nitrobenzene-d5 (S)	73	%	40-138	1	06/14/11 15:15	06/21/11 01:29	4165-60-0	
2-Fluorobiphenyl (S)	73	%	46-118	1	06/14/11 15:15	06/21/11 01:29	321-60-8	
Terphenyl-d14 (S)	75	%	41-137	1	06/14/11 15:15	06/21/11 01:29	1718-51-0	
Phenol-d6 (S)	72	%	44-120	1	06/14/11 15:15	06/21/11 01:29	13127-88-3	
2-Fluorophenol (S)	71	%	37-117	1	06/14/11 15:15	06/21/11 01:29	367-12-4	
2,4,6-Tribromophenol (S)	76	%	26-135	1	06/14/11 15:15	06/21/11 01:29	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**24.0**	%	0.10	1		06/14/11 16:19		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6221 3-4.3 BGL **Lab ID: 258066055** Collected: 06/08/11 09:08 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	13.6	5	06/16/11 07:52	06/17/11 11:19	7440-38-2	
Barium	**313**	mg/kg	27.2	1	06/16/11 07:52	06/17/11 13:05	7440-39-3	
Cadmium	ND	mg/kg	6.8	5	06/16/11 07:52	06/17/11 11:19	7440-43-9	
Chromium	**64.0**	mg/kg	1.4	1	06/16/11 07:52	06/17/11 13:05	7440-47-3	
Lead	**15.2**	mg/kg	6.8	5	06/16/11 07:52	06/17/11 11:19	7439-92-1	
Selenium	ND	mg/kg	6.8	5	06/16/11 07:52	06/17/11 11:19	7782-49-2	
Silver	ND	mg/kg	6.8	5	06/16/11 07:52	06/17/11 11:19	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.14	1	06/20/11 15:17	06/21/11 11:10	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**46.3**	%	0.10	1		06/14/11 16:20		

Sample: 6222 0-3' BGL **Lab ID: 258066056** Collected: 06/07/11 09:50 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.8**	%	0.10	1		06/14/11 16:20		

Sample: 6222 4-5 BGL **Lab ID: 258066057** Collected: 06/07/11 09:59 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.6**	%	0.10	1		06/14/11 16:21		

Sample: 6222 5'-6 BGL **Lab ID: 258066058** Collected: 06/07/11 09:59 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.4**	%	0.10	1		06/14/11 16:22		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6222 11'-12' BGL **Lab ID: 258066059** Collected: 06/07/11 10:05 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	83-32-9	
Acenaphthylene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	208-96-8	
Anthracene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	207-08-9	
Chrysene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	53-70-3	
Fluoranthene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	206-44-0	
Fluorene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	193-39-5	
1-Methylnaphthalene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	90-12-0	
2-Methylnaphthalene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	91-57-6	
Naphthalene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	91-20-3	
Phenanthrene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	85-01-8	
Pyrene	ND	ug/kg	8.2	1	06/14/11 15:15	06/15/11 18:53	129-00-0	
2-Fluorobiphenyl (S)	77	%	31-131	1	06/14/11 15:15	06/15/11 18:53	321-60-8	
Terphenyl-d14 (S)	74	%	30-133	1	06/14/11 15:15	06/15/11 18:53	1718-51-0	
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Benzoic acid	ND	ug/kg	2040	1	06/14/11 15:15	06/21/11 01:51	65-85-0	
Benzyl alcohol	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	101-55-3	
Butylbenzylphthalate	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	59-50-7	
4-Chloroaniline	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	39638-32-9	
2-Chloronaphthalene	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	91-58-7	
2-Chlorophenol	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	7005-72-3	
Dibenzofuran	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	120-83-2	
Diethylphthalate	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	105-67-9	
Dimethylphthalate	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	131-11-3	
Di-n-butylphthalate	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	829	1	06/14/11 15:15	06/21/11 01:51	51-28-5	

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6222 11'-12' BGL **Lab ID: 258066059** Collected: 06/07/11 10:05 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrotoluene	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	606-20-2	
Di-n-octylphthalate	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	87-68-3	
Hexachlorobenzene	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	77-47-4	
Hexachloroethane	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	67-72-1	
Isophorone	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51		
2-Nitroaniline	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	88-74-4	
3-Nitroaniline	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	99-09-2	
4-Nitroaniline	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	100-01-6	
Nitrobenzene	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	98-95-3	
2-Nitrophenol	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	88-75-5	
4-Nitrophenol	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	86-30-6	
Pentachlorophenol	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	87-86-5	
Phenol	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	408	1	06/14/11 15:15	06/21/11 01:51	88-06-2	
Nitrobenzene-d5 (S)	73	%	40-138	1	06/14/11 15:15	06/21/11 01:51	4165-60-0	
2-Fluorobiphenyl (S)	85	%	46-118	1	06/14/11 15:15	06/21/11 01:51	321-60-8	
Terphenyl-d14 (S)	88	%	41-137	1	06/14/11 15:15	06/21/11 01:51	1718-51-0	
Phenol-d6 (S)	87	%	44-120	1	06/14/11 15:15	06/21/11 01:51	13127-88-3	
2-Fluorophenol (S)	87	%	37-117	1	06/14/11 15:15	06/21/11 01:51	367-12-4	
2,4,6-Tribromophenol (S)	94	%	26-135	1	06/14/11 15:15	06/21/11 01:51	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.1**	%	0.10	1		06/14/11 16:22		

Sample: 6223 0-3 BGL **Lab ID: 258066060** Collected: 06/07/11 09:16 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	7.9	5	06/16/11 07:52	06/17/11 11:22	7440-38-2	
Barium	**256**	mg/kg	79.0	5	06/16/11 07:52	06/17/11 11:22	7440-39-3	
Cadmium	ND	mg/kg	3.9	5	06/16/11 07:52	06/17/11 11:22	7440-43-9	
Chromium	**35.7**	mg/kg	0.79	1	06/16/11 07:52	06/17/11 13:08	7440-47-3	
Lead	**11.5**	mg/kg	0.79	1	06/16/11 07:52	06/17/11 13:08	7439-92-1	

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6223 0-3 BGL **Lab ID: 258066060** Collected: 06/07/11 09:16 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Selenium	ND	mg/kg	3.9	5	06/16/11 07:52	06/17/11 11:22	7782-49-2	
Silver	ND	mg/kg	3.9	5	06/16/11 07:52	06/17/11 11:22	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.075	1	06/20/11 15:17	06/21/11 11:12	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.8**	%	0.10	1		06/14/11 16:23		

Sample: 6223 6-9 BGL **Lab ID: 258066061** Collected: 06/07/11 09:22 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.3**	%	0.10	1		06/14/11 16:24		

Sample: 6224 3'-6 BGL **Lab ID: 258066062** Collected: 06/07/11 08:35 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.0**	%	0.10	1		06/14/11 16:25		

Sample: 6224 5.5-6.5 BGL **Lab ID: 258066063** Collected: 06/07/11 08:55 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.8**	%	0.10	1		06/14/11 16:26		

Sample: 6225 0-3 BGL **Lab ID: 258066064** Collected: 06/07/11 08:07 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**460**	mg/kg	80.3	5	06/17/11 10:15	06/18/11 07:34		
Motor Oil Range	**1230**	mg/kg	321	5	06/17/11 10:15	06/18/11 07:34	64742-65-0	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6225 0-3 BGL **Lab ID: 258066064** Collected: 06/07/11 08:07 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
n-Octacosane (S)	108	%	50-150	5	06/17/11 10:15	06/18/11 07:34	630-02-4	
o-Terphenyl (S)	107	%	50-150	5	06/17/11 10:15	06/18/11 07:34	84-15-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**6.2**	%	0.10	1		06/14/11 16:31		

Sample: 6225 3'-5 BGL **Lab ID: 258066065** Collected: 06/07/11 08:14 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.9**	%	0.10	1		06/14/11 16:32		

Sample: 6226 0-3 BGL **Lab ID: 258066066** Collected: 06/07/11 07:36 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**131**	mg/kg	86.5	5	06/17/11 10:15	06/18/11 07:50		
Motor Oil Range	**684**	mg/kg	346	5	06/17/11 10:15	06/18/11 07:50	64742-65-0	
n-Octacosane (S)	110	%	50-150	5	06/17/11 10:15	06/18/11 07:50	630-02-4	
o-Terphenyl (S)	112	%	50-150	5	06/17/11 10:15	06/18/11 07:50	84-15-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.5**	%	0.10	1		06/14/11 16:32		

Sample: 6226 5-6 BGL **Lab ID: 258066067** Collected: 06/07/11 07:39 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	11.9	5	06/16/11 07:52	06/17/11 11:26	7440-38-2	
Barium	**175**	mg/kg	23.7	1	06/16/11 07:52	06/17/11 13:12	7440-39-3	
Cadmium	ND	mg/kg	5.9	5	06/16/11 07:52	06/17/11 11:26	7440-43-9	
Chromium	**82.6**	mg/kg	1.2	1	06/16/11 07:52	06/17/11 13:12	7440-47-3	
Lead	**7.6**	mg/kg	1.2	1	06/16/11 07:52	06/17/11 13:12	7439-92-1	
Selenium	ND	mg/kg	5.9	5	06/16/11 07:52	06/17/11 11:26	7782-49-2	
Silver	ND	mg/kg	5.9	5	06/16/11 07:52	06/17/11 11:26	7440-22-4	D3

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6226 5-6 BGL **Lab ID: 258066067** Collected: 06/07/11 07:39 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.093	1	06/20/11 15:17	06/21/11 11:19	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.0**	%	0.10	1		06/14/11 16:33		

Sample: 6227 0-3 BGL **Lab ID: 258066068** Collected: 06/07/11 07:18 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**22.2**	mg/kg	18.9	1	06/17/11 10:15	06/18/11 08:06		
Motor Oil Range	**114**	mg/kg	75.6	1	06/17/11 10:15	06/18/11 08:06	64742-65-0	
n-Octacosane (S)	93	%	50-150	1	06/17/11 10:15	06/18/11 08:06	630-02-4	
o-Terphenyl (S)	93	%	50-150	1	06/17/11 10:15	06/18/11 08:06	84-15-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.8**	%	0.10	1		06/14/11 16:34		

Sample: 6227 4-5 BGL **Lab ID: 258066069** Collected: 06/07/11 07:25 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**22.3**	%	0.10	1		06/14/11 16:34		

Sample: 6227 5-6 BGL **Lab ID: 258066070** Collected: 06/07/11 07:20 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.7**	%	0.10	1		06/14/11 16:35		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6228 0-3' BGL **Lab ID: 258066071** Collected: 06/06/11 11:04 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.5**	%	0.10	1		06/14/11 16:36		

Sample: 6228 4-5 BGL **Lab ID: 258066072** Collected: 06/06/11 11:11 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.6**	%	0.10	1		06/14/11 16:36		

Sample: 6229 0-3 BGL **Lab ID: 258066073** Collected: 06/06/11 11:25 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	9.5	5	06/16/11 07:52	06/17/11 11:35	7440-38-2	
Barium	**137**	mg/kg	19.1	1	06/16/11 07:52	06/17/11 13:15	7440-39-3	
Cadmium	ND	mg/kg	4.8	5	06/16/11 07:52	06/17/11 11:35	7440-43-9	
Chromium	**30.8**	mg/kg	0.95	1	06/16/11 07:52	06/17/11 13:15	7440-47-3	
Lead	**5.5**	mg/kg	0.95	1	06/16/11 07:52	06/17/11 13:15	7439-92-1	
Selenium	ND	mg/kg	4.8	5	06/16/11 07:52	06/17/11 11:35	7782-49-2	
Silver	ND	mg/kg	4.8	5	06/16/11 07:52	06/17/11 11:35	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.094	1	06/20/11 15:17	06/21/11 11:21	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.1**	%	0.10	1		06/14/11 16:37		

Sample: 6229 4'-5 BGL **Lab ID: 258066074** Collected: 06/06/11 11:30 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.3**	%	0.10	1		06/14/11 16:37		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6230 0-3 BGL **Lab ID: 258066075** Collected: 06/06/11 10:36 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**151**	mg/kg	84.8	5	06/17/11 10:15	06/18/11 08:54		
Motor Oil Range	**925**	mg/kg	339	5	06/17/11 10:15	06/18/11 08:54	64742-65-0	
n-Octacosane (S)	102	%	50-150	5	06/17/11 10:15	06/18/11 08:54	630-02-4	
o-Terphenyl (S)	97	%	50-150	5	06/17/11 10:15	06/18/11 08:54	84-15-1	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	83-32-9	
Acenaphthylene	ND	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	208-96-8	
Anthracene	ND	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	56-55-3	
Benzo(a)pyrene	**8.8**	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	50-32-8	
Benzo(b)fluoranthene	**13.3**	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	205-99-2	
Benzo(g,h,i)perylene	**13.4**	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	207-08-9	
Chrysene	**30.7**	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	53-70-3	
Fluoranthene	ND	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	206-44-0	
Fluorene	ND	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	193-39-5	
1-Methylnaphthalene	ND	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	90-12-0	
2-Methylnaphthalene	ND	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	91-57-6	
Naphthalene	ND	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	91-20-3	
Phenanthrene	**14.3**	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	85-01-8	
Pyrene	**12.3**	ug/kg	7.7	1	06/14/11 15:15	06/15/11 19:10	129-00-0	
2-Fluorobiphenyl (S)	66	%	31-131	1	06/14/11 15:15	06/15/11 19:10	321-60-8	
Terphenyl-d14 (S)	66	%	30-133	1	06/14/11 15:15	06/15/11 19:10	1718-51-0	
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Benzoic acid	ND	ug/kg	1910	1	06/14/11 15:15	06/21/11 03:42	65-85-0	
Benzyl alcohol	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	101-55-3	
Butylbenzylphthalate	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	59-50-7	
4-Chloroaniline	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	39638-32-9	
2-Chloronaphthalene	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	91-58-7	
2-Chlorophenol	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	7005-72-3	
Dibenzofuran	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	91-94-1	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6230 0-3 BGL **Lab ID: 258066075** Collected: 06/06/11 10:36 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dichlorophenol	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	120-83-2	
Diethylphthalate	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	105-67-9	
Dimethylphthalate	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	131-11-3	
Di-n-butylphthalate	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	775	1	06/14/11 15:15	06/21/11 03:42	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	606-20-2	
Di-n-octylphthalate	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	87-68-3	
Hexachlorobenzene	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	77-47-4	
Hexachloroethane	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	67-72-1	
Isophorone	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42		
2-Nitroaniline	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	88-74-4	
3-Nitroaniline	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	99-09-2	
4-Nitroaniline	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	100-01-6	
Nitrobenzene	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	98-95-3	
2-Nitrophenol	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	88-75-5	
4-Nitrophenol	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	86-30-6	
Pentachlorophenol	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	87-86-5	
Phenol	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	382	1	06/14/11 15:15	06/21/11 03:42	88-06-2	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**13.9**	%	0.10	1		06/14/11 16:38		

Sample: 6230 4'-5 BGL **Lab ID: 258066076** Collected: 06/06/11 10:45 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	8.2	5	06/16/11 07:52	06/17/11 11:38	7440-38-2	
Barium	**345**	mg/kg	82.1	5	06/16/11 07:52	06/17/11 11:38	7440-39-3	
Cadmium	ND	mg/kg	4.1	5	06/16/11 07:52	06/17/11 11:38	7440-43-9	
Chromium	**29.6**	mg/kg	0.82	1	06/16/11 07:52	06/17/11 13:18	7440-47-3	

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6230 4'-5 BGL **Lab ID: 258066076** Collected: 06/06/11 10:45 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**6.6**	mg/kg	4.1	5	06/16/11 07:52	06/17/11 11:38	7439-92-1	
Selenium	ND	mg/kg	4.1	5	06/16/11 07:52	06/17/11 11:38	7782-49-2	
Silver	ND	mg/kg	4.1	5	06/16/11 07:52	06/17/11 11:38	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.091	1	06/20/11 15:17	06/21/11 11:23	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.1**	%	0.10	1		06/14/11 16:38		

Sample: 6231 0-3 BGL **Lab ID: 258066077** Collected: 06/06/11 09:55 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**29.3**	mg/kg	16.4	1	06/17/11 10:15	06/18/11 08:22		
Motor Oil Range	**296**	mg/kg	65.5	1	06/17/11 10:15	06/18/11 08:22	64742-65-0	
n-Octacosane (S)	110	%	50-150	1	06/17/11 10:15	06/18/11 08:22	630-02-4	
o-Terphenyl (S)	106	%	50-150	1	06/17/11 10:15	06/18/11 08:22	84-15-1	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	83-32-9	
Acenaphthylene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	208-96-8	
Anthracene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	56-55-3	
Benzo(a)pyrene	**9.4**	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	50-32-8	
Benzo(b)fluoranthene	**8.4**	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	205-99-2	
Benzo(g,h,i)perylene	**14.5**	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	207-08-9	
Chrysene	**23.0**	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	53-70-3	
Fluoranthene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	206-44-0	
Fluorene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	193-39-5	
1-Methylnaphthalene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	90-12-0	
2-Methylnaphthalene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	91-57-6	
Naphthalene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	91-20-3	
Phenanthrene	ND	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	85-01-8	
Pyrene	**14.5**	ug/kg	7.2	1	06/14/11 15:15	06/15/11 19:27	129-00-0	
2-Fluorobiphenyl (S)	71	%	31-131	1	06/14/11 15:15	06/15/11 19:27	321-60-8	
Terphenyl-d14 (S)	69	%	30-133	1	06/14/11 15:15	06/15/11 19:27	1718-51-0	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6231 0-3 BGL **Lab ID: 258066077** Collected: 06/06/11 09:55 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Benzoic acid	ND	ug/kg	1770	1	06/14/11 15:15	06/21/11 04:04	65-85-0	
Benzyl alcohol	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	101-55-3	
Butylbenzylphthalate	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	59-50-7	
4-Chloroaniline	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	39638-32-9	
2-Chloronaphthalene	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	91-58-7	
2-Chlorophenol	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	7005-72-3	
Dibenzofuran	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	120-83-2	
Diethylphthalate	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	105-67-9	
Dimethylphthalate	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	131-11-3	
Di-n-butylphthalate	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	720	1	06/14/11 15:15	06/21/11 04:04	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	606-20-2	
Di-n-octylphthalate	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	87-68-3	
Hexachlorobenzene	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	77-47-4	
Hexachloroethane	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	67-72-1	
Isophorone	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04		
2-Nitroaniline	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	88-74-4	
3-Nitroaniline	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	99-09-2	
4-Nitroaniline	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	100-01-6	
Nitrobenzene	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	98-95-3	
2-Nitrophenol	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	88-75-5	
4-Nitrophenol	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	86-30-6	
Pentachlorophenol	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	87-86-5	
Phenol	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	120-82-1	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6231 0-3 BGL **Lab ID: 258066077** Collected: 06/06/11 09:55 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4,5-Trichlorophenol	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	355	1	06/14/11 15:15	06/21/11 04:04	88-06-2	
Nitrobenzene-d5 (S)	72	%	40-138	1	06/14/11 15:15	06/21/11 04:04	4165-60-0	
2-Fluorobiphenyl (S)	83	%	46-118	1	06/14/11 15:15	06/21/11 04:04	321-60-8	
Terphenyl-d14 (S)	81	%	41-137	1	06/14/11 15:15	06/21/11 04:04	1718-51-0	
Phenol-d6 (S)	77	%	44-120	1	06/14/11 15:15	06/21/11 04:04	13127-88-3	
2-Fluorophenol (S)	74	%	37-117	1	06/14/11 15:15	06/21/11 04:04	367-12-4	
2,4,6-Tribromophenol (S)	77	%	26-135	1	06/14/11 15:15	06/21/11 04:04	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.1**	%	0.10	1		06/14/11 16:39		

Sample: 6232 3-6 BGL **Lab ID: 258066078** Collected: 06/06/11 09:18 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	10.6	5	06/16/11 07:52	06/17/11 11:41	7440-38-2	
Barium	**231**	mg/kg	21.1	1	06/16/11 07:52	06/17/11 13:21	7440-39-3	
Cadmium	ND	mg/kg	5.3	5	06/16/11 07:52	06/17/11 11:41	7440-43-9	
Chromium	**36.9**	mg/kg	1.1	1	06/16/11 07:52	06/17/11 13:21	7440-47-3	
Lead	**5.3**	mg/kg	1.1	1	06/16/11 07:52	06/17/11 13:21	7439-92-1	
Selenium	ND	mg/kg	5.3	5	06/16/11 07:52	06/17/11 11:41	7782-49-2	
Silver	ND	mg/kg	5.3	5	06/16/11 07:52	06/17/11 11:41	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.081	1	06/20/11 15:17	06/21/11 11:25	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.3**	%	0.10	1		06/14/11 16:40		

Sample: 6233 0-3 BGL **Lab ID: 258066079** Collected: 06/06/11 08:51 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.8**	%	0.10	1		06/14/11 16:41		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6234 0-3 BGL **Lab ID: 258066080** Collected: 06/06/11 08:26 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.6**	%	0.10	1		06/14/11 16:41		

Sample: 6234 3-4' BGL **Lab ID: 258066081** Collected: 06/06/11 08:30 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	8.4	5	06/16/11 07:52	06/17/11 11:45	7440-38-2	
Barium	**98.6**	mg/kg	16.7	1	06/16/11 07:52	06/17/11 13:31	7440-39-3	
Cadmium	ND	mg/kg	4.2	5	06/16/11 07:52	06/17/11 11:45	7440-43-9	
Chromium	**30.7**	mg/kg	0.84	1	06/16/11 07:52	06/17/11 13:31	7440-47-3	
Lead	**21.4**	mg/kg	4.2	5	06/16/11 07:52	06/17/11 11:45	7439-92-1	
Selenium	ND	mg/kg	4.2	5	06/16/11 07:52	06/17/11 11:45	7782-49-2	
Silver	ND	mg/kg	4.2	5	06/16/11 07:52	06/17/11 11:45	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.10	1	06/20/11 15:17	06/21/11 11:27	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.5**	%	0.10	1		06/14/11 16:42		

Sample: 6235 0-3' BGL **Lab ID: 258066082** Collected: 06/06/11 07:55 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB S	Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	18.6	1	06/20/11 10:20	06/22/11 15:37	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	18.6	1	06/20/11 10:20	06/22/11 15:37	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	18.6	1	06/20/11 10:20	06/22/11 15:37	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	18.6	1	06/20/11 10:20	06/22/11 15:37	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	18.6	1	06/20/11 10:20	06/22/11 15:37	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	18.6	1	06/20/11 10:20	06/22/11 15:37	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	18.6	1	06/20/11 10:20	06/22/11 15:37	11096-82-5	
Tetrachloro-m-xylene (S)	70	%	29-128	1	06/20/11 10:20	06/22/11 15:37	877-09-8	
Decachlorobiphenyl (S)	63	%	23-129	1	06/20/11 10:20	06/22/11 15:37	2051-24-3	
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**871**	mg/kg	89.1	5	06/17/11 10:15	06/18/11 08:38		
Motor Oil Range	**1690**	mg/kg	357	5	06/17/11 10:15	06/18/11 08:38	64742-65-0	
n-Octacosane (S)	109	%	50-150	5	06/17/11 10:15	06/18/11 08:38	630-02-4	
o-Terphenyl (S)	108	%	50-150	5	06/17/11 10:15	06/18/11 08:38	84-15-1	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6235 0-3' BGL **Lab ID: 258066082** Collected: 06/06/11 07:55 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	83-32-9	
Acenaphthylene	ND	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	208-96-8	
Anthracene	ND	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	56-55-3	
Benzo(a)pyrene	**16.4**	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	50-32-8	
Benzo(b)fluoranthene	**13.6**	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	205-99-2	
Benzo(g,h,i)perylene	**10.6**	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	207-08-9	
Chrysene	**29.8**	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	53-70-3	
Fluoranthene	ND	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	206-44-0	
Fluorene	ND	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	193-39-5	
1-Methylnaphthalene	ND	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	90-12-0	
2-Methylnaphthalene	ND	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	91-57-6	
Naphthalene	ND	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	91-20-3	
Phenanthrene	**13.8**	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	85-01-8	
Pyrene	**17.4**	ug/kg	7.4	1	06/14/11 15:15	06/15/11 19:43	129-00-0	
2-Fluorobiphenyl (S)	68	%	31-131	1	06/14/11 15:15	06/15/11 19:43	321-60-8	
Terphenyl-d14 (S)	65	%	30-133	1	06/14/11 15:15	06/15/11 19:43	1718-51-0	
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Benzoic acid	ND	ug/kg	1840	1	06/14/11 15:15	06/21/11 04:26	65-85-0	
Benzyl alcohol	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	101-55-3	
Butylbenzylphthalate	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	59-50-7	
4-Chloroaniline	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	39638-32-9	
2-Chloronaphthalene	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	91-58-7	
2-Chlorophenol	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	7005-72-3	
Dibenzofuran	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	120-83-2	
Diethylphthalate	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	105-67-9	
Dimethylphthalate	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	131-11-3	
Di-n-butylphthalate	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	748	1	06/14/11 15:15	06/21/11 04:26	51-28-5	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6235 0-3' BGL **Lab ID: 258066082** Collected: 06/06/11 07:55 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatiles	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
2,4-Dinitrotoluene	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	606-20-2	
Di-n-octylphthalate	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	117-81-7	
Hexachloro-1,3-butadiene	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	87-68-3	
Hexachlorobenzene	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	77-47-4	
Hexachloroethane	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	67-72-1	
Isophorone	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	78-59-1	
2-Methylphenol(o-Cresol)	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26		
2-Nitroaniline	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	88-74-4	
3-Nitroaniline	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	99-09-2	
4-Nitroaniline	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	100-01-6	
Nitrobenzene	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	98-95-3	
2-Nitrophenol	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	88-75-5	
4-Nitrophenol	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	86-30-6	
Pentachlorophenol	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	87-86-5	
Phenol	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	368	1	06/14/11 15:15	06/21/11 04:26	88-06-2	
Nitrobenzene-d5 (S)	77	%	40-138	1	06/14/11 15:15	06/21/11 04:26	4165-60-0	
2-Fluorobiphenyl (S)	88	%	46-118	1	06/14/11 15:15	06/21/11 04:26	321-60-8	
Terphenyl-d14 (S)	88	%	41-137	1	06/14/11 15:15	06/21/11 04:26	1718-51-0	
Phenol-d6 (S)	82	%	44-120	1	06/14/11 15:15	06/21/11 04:26	13127-88-3	
2-Fluorophenol (S)	81	%	37-117	1	06/14/11 15:15	06/21/11 04:26	367-12-4	
2,4,6-Tribromophenol (S)	85	%	26-135	1	06/14/11 15:15	06/21/11 04:26	118-79-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.2**	%	0.10	1		06/14/11 16:43		

Sample: 6235 3-6' BGL **Lab ID: 258066083** Collected: 06/06/11 07:58 Received: 06/10/11 09:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**16.8**	%	0.10	1		06/14/11 16:43		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Sample: 6235 6-9 BGL **Lab ID: 258066084** Collected: 06/06/11 08:03 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**34.3**	%	0.10	1		06/14/11 16:45		

Sample: 6236 0-3' BGL **Lab ID: 258066085** Collected: 06/06/11 07:07 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS	Analytical Method: NWTPH-Dx Preparation Method: EPA 3546							
Diesel Range	**193**	mg/kg	81.7	5	06/17/11 10:15	06/18/11 09:10		
Motor Oil Range	**2960**	mg/kg	327	5	06/17/11 10:15	06/18/11 09:10	64742-65-0	
n-Octacosane (S)	108	%	50-150	5	06/17/11 10:15	06/18/11 09:10	630-02-4	
o-Terphenyl (S)	104	%	50-150	5	06/17/11 10:15	06/18/11 09:10	84-15-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**4.7**	%	0.10	1		06/14/11 16:46		

Sample: 6236 4-5 BGL **Lab ID: 258066086** Collected: 06/06/11 07:12 Received: 06/10/11 09:50 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	ND	mg/kg	10.4	5	06/16/11 07:52	06/17/11 11:48	7440-38-2	
Barium	**85.2**	mg/kg	20.7	1	06/16/11 07:52	06/17/11 13:34	7440-39-3	
Cadmium	ND	mg/kg	5.2	5	06/16/11 07:52	06/17/11 11:48	7440-43-9	
Chromium	**47.2**	mg/kg	1.0	1	06/16/11 07:52	06/17/11 13:34	7440-47-3	
Lead	**4.2**	mg/kg	1.0	1	06/16/11 07:52	06/17/11 13:34	7439-92-1	
Selenium	ND	mg/kg	5.2	5	06/16/11 07:52	06/17/11 11:48	7782-49-2	
Silver	ND	mg/kg	5.2	5	06/16/11 07:52	06/17/11 11:48	7440-22-4	D3
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	ND	mg/kg	0.10	1	06/20/11 15:17	06/21/11 11:30	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.6**	%	0.10	1		06/14/11 16:47		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

QC Batch: OEXT/3901 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 258066016, 258066042, 258066082

METHOD BLANK: 74902 Matrix: Solid
Associated Lab Samples: 258066016, 258066042, 258066082

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	17.0	06/22/11 13:41	
PCB-1221 (Aroclor 1221)	ug/kg	ND	17.0	06/22/11 13:41	
PCB-1232 (Aroclor 1232)	ug/kg	ND	17.0	06/22/11 13:41	
PCB-1242 (Aroclor 1242)	ug/kg	ND	17.0	06/22/11 13:41	
PCB-1248 (Aroclor 1248)	ug/kg	ND	17.0	06/22/11 13:41	
PCB-1254 (Aroclor 1254)	ug/kg	ND	17.0	06/22/11 13:41	
PCB-1260 (Aroclor 1260)	ug/kg	ND	17.0	06/22/11 13:41	
Decachlorobiphenyl (S)	%	105	23-129	06/22/11 13:41	
Tetrachloro-m-xylene (S)	%	96	29-128	06/22/11 13:41	

LABORATORY CONTROL SAMPLE: 74903

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	147	88	51-120	
PCB-1260 (Aroclor 1260)	ug/kg	167	161	97	63-120	
Decachlorobiphenyl (S)	%			105	23-129	
Tetrachloro-m-xylene (S)	%			96	29-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 74904 74905

Parameter	Units	258066042 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND	179	179	111	116	62	65	27-121	4	
PCB-1260 (Aroclor 1260)	ug/kg	ND	179	179	122	128	69	72	23-127	5	
Decachlorobiphenyl (S)	%						67	70	23-129		
Tetrachloro-m-xylene (S)	%						71	75	29-128		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

QC Batch: OEXT/3887 Analysis Method: NWTPH-Dx
QC Batch Method: EPA 3546 Analysis Description: NWTPH-Dx GCS
Associated Lab Samples: 258066003, 258066005, 258066008, 258066010, 258066011, 258066012, 258066016, 258066036, 258066042, 258066064, 258066066, 258066068, 258066075, 258066077, 258066082, 258066085

METHOD BLANK: 74705 Matrix: Solid
Associated Lab Samples: 258066003, 258066005, 258066008, 258066010, 258066011, 258066012, 258066016, 258066036, 258066042, 258066064, 258066066, 258066068, 258066075, 258066077, 258066082, 258066085

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range	mg/kg	ND	16.0	06/18/11 02:27	
Motor Oil Range	mg/kg	ND	64.0	06/18/11 02:27	
n-Octacosane (S)	%	100	50-150	06/18/11 02:27	
o-Terphenyl (S)	%	97	50-150	06/18/11 02:27	

LABORATORY CONTROL SAMPLE: 74706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range	mg/kg	500	465	93	56-124	
Motor Oil Range	mg/kg	500	499	100	50-150	
n-Octacosane (S)	%			108	50-150	
o-Terphenyl (S)	%			100	50-150	

SAMPLE DUPLICATE: 74707

Parameter	Units	258066008 Result	Dup Result	RPD	Qualifiers
Diesel Range	mg/kg	546	638	16	
Motor Oil Range	mg/kg	1780	1860	4	
n-Octacosane (S)	%	112	108	5	
o-Terphenyl (S)	%	105	105	2	

SAMPLE DUPLICATE: 74708

Parameter	Units	258131023 Result	Dup Result	RPD	Qualifiers
Diesel Range	mg/kg	11.7J	14.4J		
Motor Oil Range	mg/kg	193	215	11	
n-Octacosane (S)	%	92	96	4	
o-Terphenyl (S)	%	96	97	1	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

QC Batch: MPRP/2282 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 258066001, 258066002, 258066015, 258066019, 258066021, 258066022, 258066023, 258066028, 258066030, 258066032

METHOD BLANK: 74422 Matrix: Solid
Associated Lab Samples: 258066001, 258066002, 258066015, 258066019, 258066021, 258066022, 258066023, 258066028, 258066030, 258066032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.0	06/17/11 09:48	
Barium	mg/kg	ND	20.0	06/17/11 09:48	
Cadmium	mg/kg	ND	1.0	06/17/11 09:48	
Chromium	mg/kg	ND	1.0	06/17/11 09:48	
Lead	mg/kg	ND	1.0	06/17/11 09:48	
Selenium	mg/kg	ND	1.0	06/17/11 09:48	
Silver	mg/kg	ND	1.0	06/17/11 09:48	

LABORATORY CONTROL SAMPLE: 74423

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	25	25.7	103	80-120	
Barium	mg/kg	25	26.2	105	80-120	
Cadmium	mg/kg	25	25.3	101	80-120	
Chromium	mg/kg	25	25.6	102	80-120	
Lead	mg/kg	25	25.4	102	80-120	
Selenium	mg/kg	25	25.2	101	80-120	
Silver	mg/kg	12.5	12.7	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 74424 74425

Parameter	Units	258061003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	mg/kg	ND	30.9	31.3	39.6	45.0	101	117	75-125	13	
Barium	mg/kg	378	30.9	31.3	411	442	105	206	75-125	7	M1
Cadmium	mg/kg	ND	30.9	31.3	35.3	39.2	106	117	75-125	11	
Chromium	mg/kg	64.5	30.9	31.3	101	99.3	119	111	75-125	2	
Lead	mg/kg	108	30.9	31.3	135	139	89	100	75-125	3	
Selenium	mg/kg	ND	30.9	31.3	32.6	36.7	101	113	75-125	12	
Silver	mg/kg	ND	15.4	15.7	16.1	17.7	105	113	75-125	9	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

QC Batch: MPRP/2283 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 258066043, 258066047, 258066051, 258066055, 258066060, 258066067, 258066073, 258066076, 258066078, 258066081, 258066086

METHOD BLANK: 74426 Matrix: Solid
Associated Lab Samples: 258066043, 258066047, 258066051, 258066055, 258066060, 258066067, 258066073, 258066076, 258066078, 258066081, 258066086

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	2.0	06/17/11 10:44	
Barium	mg/kg	ND	20.0	06/17/11 10:44	
Cadmium	mg/kg	ND	1.0	06/17/11 10:44	
Chromium	mg/kg	ND	1.0	06/17/11 10:44	
Lead	mg/kg	ND	1.0	06/17/11 10:44	
Selenium	mg/kg	ND	1.0	06/17/11 10:44	
Silver	mg/kg	ND	1.0	06/17/11 10:44	

LABORATORY CONTROL SAMPLE: 74427

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	25	26.6	106	80-120	
Barium	mg/kg	25	27.1	108	80-120	
Cadmium	mg/kg	25	26.6	107	80-120	
Chromium	mg/kg	25	27.0	108	80-120	
Lead	mg/kg	25	27.4	110	80-120	
Selenium	mg/kg	25	26.6	106	80-120	
Silver	mg/kg	12.5	13.4	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 74428 74429

Parameter	Units	258066043 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	mg/kg	ND	25.8	26.1	28.8	32.2	108	120	75-125	11	
Barium	mg/kg	82.0	25.8	26.1	108	106	101	94	75-125	2	
Cadmium	mg/kg	ND	25.8	26.1	28.1	31.1	109	119	75-125	10	
Chromium	mg/kg	75.7	25.8	26.1	108	106	123	116	75-125	1	
Lead	mg/kg	ND	25.8	26.1	32.0	34.6	113	122	75-125	8	
Selenium	mg/kg	ND	25.8	26.1	28.9	31.7	107	116	75-125	9	
Silver	mg/kg	ND	13	13.1	14.9	16.9	115	129	75-125	12	M1

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

QC Batch: MERP/1456 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 258066001, 258066002, 258066015, 258066019, 258066021, 258066022, 258066023, 258066028, 258066030, 258066032

METHOD BLANK: 74430 Matrix: Solid
Associated Lab Samples: 258066001, 258066002, 258066015, 258066019, 258066021, 258066022, 258066023, 258066028, 258066030, 258066032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.10	06/21/11 10:06	

LABORATORY CONTROL SAMPLE: 74431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.51	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 74432 74433

Parameter	Units	258061003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	mg/kg	ND	.78	.76	0.86	0.83	101	100	80-120	4	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

QC Batch: MERP/1457 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 258066043, 258066047, 258066051, 258066055, 258066060, 258066067, 258066073, 258066076, 258066078, 258066081, 258066086

METHOD BLANK: 74434 Matrix: Solid
Associated Lab Samples: 258066043, 258066047, 258066051, 258066055, 258066060, 258066067, 258066073, 258066076, 258066078, 258066081, 258066086

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.10	06/21/11 10:54	

LABORATORY CONTROL SAMPLE: 74435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.50	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 74436 74437

Parameter	Units	258066043 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	mg/kg	ND	.38	.38	0.39	0.40	105	106	80-120	3	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

QC Batch: OEXT/3858 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 258066010, 258066031, 258066033, 258066041, 258066054, 258066059, 258066075, 258066077, 258066082

METHOD BLANK: 74206 Matrix: Solid
Associated Lab Samples: 258066010, 258066031, 258066033, 258066041, 258066054, 258066059, 258066075, 258066077, 258066082

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	6.7	06/15/11 15:50	
2-Methylnaphthalene	ug/kg	ND	6.7	06/15/11 15:50	
Acenaphthene	ug/kg	ND	6.7	06/15/11 15:50	
Acenaphthylene	ug/kg	ND	6.7	06/15/11 15:50	
Anthracene	ug/kg	ND	6.7	06/15/11 15:50	
Benzo(a)anthracene	ug/kg	ND	6.7	06/15/11 15:50	
Benzo(a)pyrene	ug/kg	ND	6.7	06/15/11 15:50	
Benzo(b)fluoranthene	ug/kg	ND	6.7	06/15/11 15:50	
Benzo(g,h,i)perylene	ug/kg	ND	6.7	06/15/11 15:50	
Benzo(k)fluoranthene	ug/kg	ND	6.7	06/15/11 15:50	
Chrysene	ug/kg	ND	6.7	06/15/11 15:50	
Dibenz(a,h)anthracene	ug/kg	ND	6.7	06/15/11 15:50	
Fluoranthene	ug/kg	ND	6.7	06/15/11 15:50	
Fluorene	ug/kg	ND	6.7	06/15/11 15:50	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	6.7	06/15/11 15:50	
Naphthalene	ug/kg	ND	6.7	06/15/11 15:50	
Phenanthrene	ug/kg	ND	6.7	06/15/11 15:50	
Pyrene	ug/kg	ND	6.7	06/15/11 15:50	
2-Fluorobiphenyl (S)	%	84	31-131	06/15/11 15:50	
Terphenyl-d14 (S)	%	91	30-133	06/15/11 15:50	

LABORATORY CONTROL SAMPLE: 74207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	133	106	79	37-121	
2-Methylnaphthalene	ug/kg	133	112	84	33-132	
Acenaphthene	ug/kg	133	112	84	32-127	
Acenaphthylene	ug/kg	133	116	87	31-134	
Anthracene	ug/kg	133	120	90	42-135	
Benzo(a)anthracene	ug/kg	133	132	99	43-139	
Benzo(a)pyrene	ug/kg	133	132	99	44-144	
Benzo(b)fluoranthene	ug/kg	133	131	98	42-144	
Benzo(g,h,i)perylene	ug/kg	133	117	88	46-136	
Benzo(k)fluoranthene	ug/kg	133	123	92	45-147	
Chrysene	ug/kg	133	118	89	42-144	
Dibenz(a,h)anthracene	ug/kg	133	121	91	48-142	
Fluoranthene	ug/kg	133	121	91	44-143	
Fluorene	ug/kg	133	116	87	32-146	
Indeno(1,2,3-cd)pyrene	ug/kg	133	121	90	47-140	
Naphthalene	ug/kg	133	108	81	35-118	
Phenanthrene	ug/kg	133	118	88	42-131	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

LABORATORY CONTROL SAMPLE: 74207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	133	120	90	47-136	
2-Fluorobiphenyl (S)	%			87	31-131	
Terphenyl-d14 (S)	%			95	30-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 74208 74209

Parameter	Units	258066002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1-Methylnaphthalene	ug/kg				150	146				2	
2-Methylnaphthalene	ug/kg				154	151				2	
Acenaphthene	ug/kg				155	152				2	
Acenaphthylene	ug/kg				160	159				.8	
Anthracene	ug/kg				156	147				6	
Benzo(a)anthracene	ug/kg				162	144				12	
Benzo(a)pyrene	ug/kg				154	135				13	
Benzo(b)fluoranthene	ug/kg				149	129				14	
Benzo(g,h,i)perylene	ug/kg				135	115				16	
Benzo(k)fluoranthene	ug/kg				138	122				13	
Chrysene	ug/kg				143	129				10	
Dibenz(a,h)anthracene	ug/kg				137	122				12	
Fluoranthene	ug/kg				156	142				9	
Fluorene	ug/kg				160	158				2	
Indeno(1,2,3-cd)pyrene	ug/kg				135	117				14	
Naphthalene	ug/kg				150	153				2	
Phenanthrene	ug/kg				158	148				6	
Pyrene	ug/kg				155	143				8	
2-Fluorobiphenyl (S)	%						82	79	31-131		
Terphenyl-d14 (S)	%						80	76	30-133		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

QC Batch: OEXT/3859 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 258066003, 258066010, 258066031, 258066033, 258066041, 258066054, 258066059, 258066075, 258066077, 258066082

METHOD BLANK: 74210 Matrix: Solid
Associated Lab Samples: 258066003, 258066010, 258066031, 258066033, 258066041, 258066054, 258066059, 258066075, 258066077, 258066082

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	330	06/20/11 23:38	
1,2-Dichlorobenzene	ug/kg	ND	330	06/20/11 23:38	
1,3-Dichlorobenzene	ug/kg	ND	330	06/20/11 23:38	
1,4-Dichlorobenzene	ug/kg	ND	330	06/20/11 23:38	
2,4,5-Trichlorophenol	ug/kg	ND	330	06/20/11 23:38	
2,4,6-Trichlorophenol	ug/kg	ND	330	06/20/11 23:38	
2,4-Dichlorophenol	ug/kg	ND	330	06/20/11 23:38	
2,4-Dimethylphenol	ug/kg	ND	330	06/20/11 23:38	
2,4-Dinitrophenol	ug/kg	ND	670	06/20/11 23:38	
2,4-Dinitrotoluene	ug/kg	ND	330	06/20/11 23:38	
2,6-Dinitrotoluene	ug/kg	ND	330	06/20/11 23:38	
2-Chloronaphthalene	ug/kg	ND	330	06/20/11 23:38	
2-Chlorophenol	ug/kg	ND	330	06/20/11 23:38	
2-Methylnaphthalene	ug/kg	ND	330	06/20/11 23:38	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	06/20/11 23:38	
2-Nitroaniline	ug/kg	ND	330	06/20/11 23:38	
2-Nitrophenol	ug/kg	ND	330	06/20/11 23:38	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	330	06/20/11 23:38	
3,3'-Dichlorobenzidine	ug/kg	ND	330	06/20/11 23:38	
3-Nitroaniline	ug/kg	ND	330	06/20/11 23:38	
4,6-Dinitro-2-methylphenol	ug/kg	ND	330	06/20/11 23:38	
4-Bromophenylphenyl ether	ug/kg	ND	330	06/20/11 23:38	
4-Chloro-3-methylphenol	ug/kg	ND	330	06/20/11 23:38	
4-Chloroaniline	ug/kg	ND	330	06/20/11 23:38	
4-Chlorophenylphenyl ether	ug/kg	ND	330	06/20/11 23:38	
4-Nitroaniline	ug/kg	ND	330	06/20/11 23:38	
4-Nitrophenol	ug/kg	ND	330	06/20/11 23:38	
Acenaphthene	ug/kg	ND	330	06/20/11 23:38	
Acenaphthylene	ug/kg	ND	330	06/20/11 23:38	
Anthracene	ug/kg	ND	330	06/20/11 23:38	
Benzo(a)anthracene	ug/kg	ND	330	06/20/11 23:38	
Benzo(a)pyrene	ug/kg	ND	330	06/20/11 23:38	
Benzo(b)fluoranthene	ug/kg	ND	330	06/20/11 23:38	
Benzo(g,h,i)perylene	ug/kg	ND	330	06/20/11 23:38	
Benzo(k)fluoranthene	ug/kg	ND	330	06/20/11 23:38	
Benzoic acid	ug/kg	ND	1650	06/20/11 23:38	
Benzyl alcohol	ug/kg	ND	330	06/20/11 23:38	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	06/20/11 23:38	
bis(2-Chloroethyl) ether	ug/kg	ND	330	06/20/11 23:38	
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	06/20/11 23:38	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	06/20/11 23:38	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

METHOD BLANK: 74210 Matrix: Solid

Associated Lab Samples: 258066003, 258066010, 258066031, 258066033, 258066041, 258066054, 258066059, 258066075, 258066077, 258066082

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/kg	ND	330	06/20/11 23:38	
Chrysene	ug/kg	ND	330	06/20/11 23:38	
Di-n-butylphthalate	ug/kg	ND	330	06/20/11 23:38	
Di-n-octylphthalate	ug/kg	ND	330	06/20/11 23:38	
Dibenz(a,h)anthracene	ug/kg	ND	330	06/20/11 23:38	
Dibenzofuran	ug/kg	ND	330	06/20/11 23:38	
Diethylphthalate	ug/kg	ND	330	06/20/11 23:38	
Dimethylphthalate	ug/kg	ND	330	06/20/11 23:38	
Fluoranthene	ug/kg	ND	330	06/20/11 23:38	
Fluorene	ug/kg	ND	330	06/20/11 23:38	
Hexachloro-1,3-butadiene	ug/kg	ND	330	06/20/11 23:38	
Hexachlorobenzene	ug/kg	ND	330	06/20/11 23:38	
Hexachlorocyclopentadiene	ug/kg	ND	330	06/20/11 23:38	
Hexachloroethane	ug/kg	ND	330	06/20/11 23:38	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	06/20/11 23:38	
Isophorone	ug/kg	ND	330	06/20/11 23:38	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	06/20/11 23:38	
N-Nitrosodiphenylamine	ug/kg	ND	330	06/20/11 23:38	
Naphthalene	ug/kg	ND	330	06/20/11 23:38	
Nitrobenzene	ug/kg	ND	330	06/20/11 23:38	
Pentachlorophenol	ug/kg	ND	330	06/20/11 23:38	
Phenanthrene	ug/kg	ND	330	06/20/11 23:38	
Phenol	ug/kg	ND	330	06/20/11 23:38	
Pyrene	ug/kg	ND	330	06/20/11 23:38	
2,4,6-Tribromophenol (S)	%	70	26-135	06/20/11 23:38	
2-Fluorobiphenyl (S)	%	80	46-118	06/20/11 23:38	
2-Fluorophenol (S)	%	74	37-117	06/20/11 23:38	
Nitrobenzene-d5 (S)	%	79	40-138	06/20/11 23:38	
Phenol-d6 (S)	%	79	44-120	06/20/11 23:38	
Terphenyl-d14 (S)	%	82	41-137	06/20/11 23:38	

LABORATORY CONTROL SAMPLE: 74211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	1330	1090	82	56-120	
1,4-Dichlorobenzene	ug/kg	1330	1020	77	51-105	
2,4-Dinitrotoluene	ug/kg	1330	991	74	43-114	
2-Chlorophenol	ug/kg	1330	1100	82	54-106	
2-Methylnaphthalene	ug/kg	1330	1100	82	47-124	
4-Chloro-3-methylphenol	ug/kg	1330	1170	88	57-122	
4-Nitrophenol	ug/kg	1330	1210	91	25-122	
Acenaphthene	ug/kg	1330	1170	88	48-117	
Acenaphthylene	ug/kg	1330	1120	84	43-118	
Anthracene	ug/kg	1330	1200	90	53-117	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

LABORATORY CONTROL SAMPLE: 74211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzo(a)anthracene	ug/kg	1330	1210	91	52-124	
Benzo(a)pyrene	ug/kg	1330	1230	93	51-113	
Benzo(b)fluoranthene	ug/kg	1330	1230	92	49-119	
Benzo(g,h,i)perylene	ug/kg	1330	1110	83	52-117	
Benzo(k)fluoranthene	ug/kg	1330	1150	86	54-117	
Chrysene	ug/kg	1330	1170	88	53-124	
Dibenz(a,h)anthracene	ug/kg	1330	1110	83	51-123	
Fluoranthene	ug/kg	1330	1250	94	54-118	
Fluorene	ug/kg	1330	1170	88	47-123	
Indeno(1,2,3-cd)pyrene	ug/kg	1330	1150	86	50-122	
N-Nitroso-di-n-propylamine	ug/kg	1330	1130	85	52-123	
Naphthalene	ug/kg	1330	1130	85	48-131	
Pentachlorophenol	ug/kg	1330	846	63	20-89	
Phenanthrene	ug/kg	1330	1190	89	56-117	
Phenol	ug/kg	1330	1140	86	56-104	
Pyrene	ug/kg	1330	1170	88	54-118	
2,4,6-Tribromophenol (S)	%			82	26-135	
2-Fluorobiphenyl (S)	%			88	46-118	
2-Fluorophenol (S)	%			82	37-117	
Nitrobenzene-d5 (S)	%			88	40-138	
Phenol-d6 (S)	%			85	44-120	
Terphenyl-d14 (S)	%			91	41-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 74212 74213

Parameter	Units	258066003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2,4-Trichlorobenzene	ug/kg	ND	1390	1380	964	1190	69	87	35-137	21	D6
1,4-Dichlorobenzene	ug/kg	ND	1390	1380	935	1060	67	77	29-118	12	
2,4-Dinitrotoluene	ug/kg	ND	1390	1380	827	978	60	71	16-123	17	
2-Chlorophenol	ug/kg	ND	1390	1380	1110	1370	80	99	39-119	21	D6
2-Methylnaphthalene	ug/kg	ND	1390	1380	1010	1260	71	90	38-139	22	
4-Chloro-3-methylphenol	ug/kg	ND	1390	1380	1120	1380	80	100	33-155	21	
4-Nitrophenol	ug/kg	ND	1390	1380	1060	1260	77	92	10-146	17	
Acenaphthene	ug/kg	ND	1390	1380	1070	1340	77	98	37-129	23	R1
Acenaphthylene	ug/kg	ND	1390	1380	1070	1330	77	97	23-145	22	R1
Anthracene	ug/kg	ND	1390	1380	1110	1450	80	105	12-152	26	R1
Benzo(a)anthracene	ug/kg	ND	1390	1380	1110	1370	80	99	32-140	21	
Benzo(a)pyrene	ug/kg	ND	1390	1380	1130	1420	81	103	22-136	23	R1
Benzo(b)fluoranthene	ug/kg	ND	1390	1380	1190	1400	86	102	21-137	16	
Benzo(g,h,i)perylene	ug/kg	ND	1390	1380	749	939	54	68	31-127	22	
Benzo(k)fluoranthene	ug/kg	ND	1390	1380	1060	1460	76	106	29-126	32	R1
Chrysene	ug/kg	ND	1390	1380	1080	1300	78	95	21-144	18	
Dibenz(a,h)anthracene	ug/kg	ND	1390	1380	814	1040	59	76	28-146	24	R1
Fluoranthene	ug/kg	ND	1390	1380	1140	1420	82	103	10-155	22	R1
Fluorene	ug/kg	ND	1390	1380	1090	1330	78	97	32-141	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	1390	1380	812	1030	59	75	30-132	23	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 74212 74213

Parameter	Units	258066003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
N-Nitroso-di-n-propylamine	ug/kg	ND	1390	1380	1080	1270	78	92	36-136	16	
Naphthalene	ug/kg	ND	1390	1380	1010	1250	73	90	36-145	21	R1
Pentachlorophenol	ug/kg	ND	1390	1380	970	1280	70	93	10-143	28	
Phenanthrene	ug/kg	ND	1390	1380	1150	1480	79	104	37-129	25	
Phenol	ug/kg	ND	1390	1380	1250	1520	81	102	36-127	20	D6
Pyrene	ug/kg	ND	1390	1380	1170	1420	81	100	12-148	19	
2,4,6-Tribromophenol (S)	%						84	103	26-135		
2-Fluorobiphenyl (S)	%						76	95	46-118		
2-Fluorophenol (S)	%						76	92	37-117		
Nitrobenzene-d5 (S)	%						74	90	40-138		
Phenol-d6 (S)	%						79	97	44-120		
Terphenyl-d14 (S)	%						84	101	41-137		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

QC Batch: PMST/1703 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 258066001, 258066002, 258066003, 258066004, 258066005, 258066006, 258066007, 258066008, 258066009, 258066010, 258066011, 258066012

SAMPLE DUPLICATE: 74135

Parameter	Units	258074001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	21.6	21.9	1	

SAMPLE DUPLICATE: 74136

Parameter	Units	258066012 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	7.6	7.6	.2	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

QC Batch: PMST/1704 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 258066013, 258066014, 258066015, 258066016, 258066017, 258066018, 258066019, 258066020, 258066021, 258066022, 258066023, 258066034, 258066035

SAMPLE DUPLICATE: 74137

Parameter	Units	258066016 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	5.7	7.0	21	

SAMPLE DUPLICATE: 74138

Parameter	Units	258066035 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	16.5	14.9	10	

Pace Analytical Services, Inc.
940 South Hamey
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

QC Batch: PMST/1705 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 258066024, 258066025, 258066026, 258066027, 258066028, 258066029, 258066030, 258066031, 258066032, 258066033, 258066036, 258066037, 258066038, 258066039, 258066040, 258066041, 258066042, 258066043

SAMPLE DUPLICATE: 74277

Parameter	Units	258079001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	26.6	26.5	.2	

SAMPLE DUPLICATE: 74278

Parameter	Units	258066042 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	7.2	7.7	8	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

QC Batch: PMST/1706 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 258066044, 258066045, 258066046, 258066047, 258066048, 258066049, 258066050, 258066051, 258066052, 258066053, 258066054, 258066055, 258066056, 258066057, 258066058, 258066059, 258066060, 258066061, 258066062, 258066063

SAMPLE DUPLICATE: 74281

Parameter	Units	258066045 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	15.6	14.3	8	

SAMPLE DUPLICATE: 74282

Parameter	Units	258066063 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	7.8	7.9	1	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

QC Batch: PMST/1707 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 258066064, 258066065, 258066066, 258066067, 258066068, 258066069, 258066070, 258066071, 258066072, 258066073, 258066074, 258066075, 258066076, 258066077, 258066078, 258066079, 258066080, 258066081, 258066082, 258066083

SAMPLE DUPLICATE: 74285

Parameter	Units	258066064 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	6.2	6.3	2	

SAMPLE DUPLICATE: 74286

Parameter	Units	258066081 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	11.5	11.2	2	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

QC Batch: PMST/1708 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 258066084, 258066085, 258066086

SAMPLE DUPLICATE: 74287

Parameter	Units	258066084 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	34.3	34.5	.6	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALIFIERS

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel Clean-Up

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-S	Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
258066016	6205 0'-3' BGL	EPA 3546	OEXT/3901	EPA 8082	GCSV/2617
258066042	6216 0-3' BGL	EPA 3546	OEXT/3901	EPA 8082	GCSV/2617
258066082	6235 0-3' BGL	EPA 3546	OEXT/3901	EPA 8082	GCSV/2617
258066003	6201 0-3 BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066005	6201B 0'-3 BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066008	6201C 0'-3 BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066010	6202B 0-3 BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066011	6203 1-2 BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066012	6203 2'-3' BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066016	6205 0'-3' BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066036	6214 0-3' BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066042	6216 0-3' BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066064	6225 0-3 BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066066	6226 0-3 BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066068	6227 0-3 BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066075	6230 0-3 BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066077	6231 0-3 BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066082	6235 0-3' BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066085	6236 0-3' BGL	EPA 3546	OEXT/3887	NWTPH-Dx	GCSV/2609
258066001	Stockpile 6223 C/L	EPA 3050	MPRP/2282	EPA 6010	ICP/2185
258066002	Stockpile 6224 N	EPA 3050	MPRP/2282	EPA 6010	ICP/2185
258066015	6204 0'-2 BGL	EPA 3050	MPRP/2282	EPA 6010	ICP/2185
258066019	6205 8'-9' BGL	EPA 3050	MPRP/2282	EPA 6010	ICP/2185
258066021	6206 2'-3' BGL	EPA 3050	MPRP/2282	EPA 6010	ICP/2185
258066022	6207 0'-2.5 BGL	EPA 3050	MPRP/2282	EPA 6010	ICP/2185
258066023	6208 0'-3' BGL	EPA 3050	MPRP/2282	EPA 6010	ICP/2185
258066028	6210 3-4 BGL	EPA 3050	MPRP/2282	EPA 6010	ICP/2185
258066030	6211 4'-5' BGL	EPA 3050	MPRP/2282	EPA 6010	ICP/2185
258066032	6212 3'-4.3 BGL	EPA 3050	MPRP/2282	EPA 6010	ICP/2185
258066043	6216 5-6' BGL	EPA 3050	MPRP/2283	EPA 6010	ICP/2186
258066047	6218 3'-6 BGL	EPA 3050	MPRP/2283	EPA 6010	ICP/2186
258066051	6220 0-3 BGL	EPA 3050	MPRP/2283	EPA 6010	ICP/2186
258066055	6221 3-4.3 BGL	EPA 3050	MPRP/2283	EPA 6010	ICP/2186
258066060	6223 0-3 BGL	EPA 3050	MPRP/2283	EPA 6010	ICP/2186
258066067	6226 5-6 BGL	EPA 3050	MPRP/2283	EPA 6010	ICP/2186
258066073	6229 0-3 BGL	EPA 3050	MPRP/2283	EPA 6010	ICP/2186
258066076	6230 4'-5 BGL	EPA 3050	MPRP/2283	EPA 6010	ICP/2186
258066078	6232 3-6 BGL	EPA 3050	MPRP/2283	EPA 6010	ICP/2186
258066081	6234 3-4' BGL	EPA 3050	MPRP/2283	EPA 6010	ICP/2186
258066086	6236 4-5 BGL	EPA 3050	MPRP/2283	EPA 6010	ICP/2186
258066001	Stockpile 6223 C/L	EPA 7471	MERP/1456	EPA 7471	MERC/1470
258066002	Stockpile 6224 N	EPA 7471	MERP/1456	EPA 7471	MERC/1470
258066015	6204 0'-2 BGL	EPA 7471	MERP/1456	EPA 7471	MERC/1470
258066019	6205 8'-9' BGL	EPA 7471	MERP/1456	EPA 7471	MERC/1470
258066021	6206 2'-3' BGL	EPA 7471	MERP/1456	EPA 7471	MERC/1470
258066022	6207 0'-2.5 BGL	EPA 7471	MERP/1456	EPA 7471	MERC/1470
258066023	6208 0'-3' BGL	EPA 7471	MERP/1456	EPA 7471	MERC/1470

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
258066028	6210 3-4 BGL	EPA 7471	MERP/1456	EPA 7471	MERC/1470
258066030	6211 4'-5' BGL	EPA 7471	MERP/1456	EPA 7471	MERC/1470
258066032	6212 3'-4.3 BGL	EPA 7471	MERP/1456	EPA 7471	MERC/1470
258066043	6216 5-6' BGL	EPA 7471	MERP/1457	EPA 7471	MERC/1471
258066047	6218 3'-6 BGL	EPA 7471	MERP/1457	EPA 7471	MERC/1471
258066051	6220 0-3 BGL	EPA 7471	MERP/1457	EPA 7471	MERC/1471
258066055	6221 3-4.3 BGL	EPA 7471	MERP/1457	EPA 7471	MERC/1471
258066060	6223 0-3 BGL	EPA 7471	MERP/1457	EPA 7471	MERC/1471
258066067	6226 5-6 BGL	EPA 7471	MERP/1457	EPA 7471	MERC/1471
258066073	6229 0-3 BGL	EPA 7471	MERP/1457	EPA 7471	MERC/1471
258066076	6230 4'-5 BGL	EPA 7471	MERP/1457	EPA 7471	MERC/1471
258066078	6232 3-6 BGL	EPA 7471	MERP/1457	EPA 7471	MERC/1471
258066081	6234 3-4' BGL	EPA 7471	MERP/1457	EPA 7471	MERC/1471
258066086	6236 4-5 BGL	EPA 7471	MERP/1457	EPA 7471	MERC/1471
258066010	6202B 0-3 BGL	EPA 3546	OEXT/3858	EPA 8270 by SIM	MSSV/1656
258066031	6212 0-3 BGL	EPA 3546	OEXT/3858	EPA 8270 by SIM	MSSV/1656
258066033	6213 0-3 BGL	EPA 3546	OEXT/3858	EPA 8270 by SIM	MSSV/1656
258066041	6215 3'-4.5 BGL	EPA 3546	OEXT/3858	EPA 8270 by SIM	MSSV/1656
258066054	6221 0-3 BGL	EPA 3546	OEXT/3858	EPA 8270 by SIM	MSSV/1656
258066059	6222 11'-12' BGL	EPA 3546	OEXT/3858	EPA 8270 by SIM	MSSV/1656
258066075	6230 0-3 BGL	EPA 3546	OEXT/3858	EPA 8270 by SIM	MSSV/1656
258066077	6231 0-3 BGL	EPA 3546	OEXT/3858	EPA 8270 by SIM	MSSV/1656
258066082	6235 0-3' BGL	EPA 3546	OEXT/3858	EPA 8270 by SIM	MSSV/1656
258066003	6201 0-3 BGL	EPA 3546	OEXT/3859	EPA 8270	MSSV/1659
258066010	6202B 0-3 BGL	EPA 3546	OEXT/3859	EPA 8270	MSSV/1659
258066031	6212 0-3 BGL	EPA 3546	OEXT/3859	EPA 8270	MSSV/1659
258066033	6213 0-3 BGL	EPA 3546	OEXT/3859	EPA 8270	MSSV/1659
258066041	6215 3'-4.5 BGL	EPA 3546	OEXT/3859	EPA 8270	MSSV/1659
258066054	6221 0-3 BGL	EPA 3546	OEXT/3859	EPA 8270	MSSV/1659
258066059	6222 11'-12' BGL	EPA 3546	OEXT/3859	EPA 8270	MSSV/1659
258066075	6230 0-3 BGL	EPA 3546	OEXT/3859	EPA 8270	MSSV/1659
258066077	6231 0-3 BGL	EPA 3546	OEXT/3859	EPA 8270	MSSV/1659
258066082	6235 0-3' BGL	EPA 3546	OEXT/3859	EPA 8270	MSSV/1659
258066001	Stockpile 6223 C/L	ASTM D2974-87	PMST/1703		
258066002	Stockpile 6224 N	ASTM D2974-87	PMST/1703		
258066003	6201 0-3 BGL	ASTM D2974-87	PMST/1703		
258066004	6201 3'-5.5 BGL	ASTM D2974-87	PMST/1703		
258066005	6201B 0'-3 BGL	ASTM D2974-87	PMST/1703		
258066006	6201B 4'-5' BGL	ASTM D2974-87	PMST/1703		
258066007	6201B 5'-6' BGL	ASTM D2974-87	PMST/1703		
258066008	6201C 0'-3 BGL	ASTM D2974-87	PMST/1703		
258066009	6202 0-3 BGL	ASTM D2974-87	PMST/1703		
258066010	6202B 0-3 BGL	ASTM D2974-87	PMST/1703		
258066011	6203 1-2 BGL	ASTM D2974-87	PMST/1703		
258066012	6203 2'-3' BGL	ASTM D2974-87	PMST/1703		
258066013	6203 3'-6 BGL	ASTM D2974-87	PMST/1704		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
258066014	6203 6'-6.5 BGL	ASTM D2974-87	PMST/1704		
258066015	6204 0'-2 BGL	ASTM D2974-87	PMST/1704		
258066016	6205 0'-3' BGL	ASTM D2974-87	PMST/1704		
258066017	6205 4'-5' BGL	ASTM D2974-87	PMST/1704		
258066018	6205 5'-6' BGL	ASTM D2974-87	PMST/1704		
258066019	6205 8'-9' BGL	ASTM D2974-87	PMST/1704		
258066020	6206 1'-2' BGL	ASTM D2974-87	PMST/1704		
258066021	6206 2'-3' BGL	ASTM D2974-87	PMST/1704		
258066022	6207 0'-2.5 BGL	ASTM D2974-87	PMST/1704		
258066023	6208 0'-3' BGL	ASTM D2974-87	PMST/1704		
258066024	6208 4'-5' BGL	ASTM D2974-87	PMST/1705		
258066025	6209 0-3 BGL	ASTM D2974-87	PMST/1705		
258066026	6209 3-4' BGL	ASTM D2974-87	PMST/1705		
258066027	6210 0-3 BGL	ASTM D2974-87	PMST/1705		
258066028	6210 3-4 BGL	ASTM D2974-87	PMST/1705		
258066029	6211 0-3 BGL	ASTM D2974-87	PMST/1705		
258066030	6211 4'-5' BGL	ASTM D2974-87	PMST/1705		
258066031	6212 0-3 BGL	ASTM D2974-87	PMST/1705		
258066032	6212 3'-4.3 BGL	ASTM D2974-87	PMST/1705		
258066033	6213 0-3 BGL	ASTM D2974-87	PMST/1705		
258066034	6213 4'-5 BGL	ASTM D2974-87	PMST/1704		
258066035	6213 5'-6 BGL	ASTM D2974-87	PMST/1704		
258066036	6214 0-3' BGL	ASTM D2974-87	PMST/1705		
258066037	6214 4-5' BGL	ASTM D2974-87	PMST/1705		
258066038	6214 5'-6' BGL	ASTM D2974-87	PMST/1705		
258066039	6214 8'-9' BGL	ASTM D2974-87	PMST/1705		
258066040	6215 0-3' BGL	ASTM D2974-87	PMST/1705		
258066041	6215 3'-4.5 BGL	ASTM D2974-87	PMST/1705		
258066042	6216 0-3' BGL	ASTM D2974-87	PMST/1705		
258066043	6216 5-6' BGL	ASTM D2974-87	PMST/1705		
258066044	6216 7'-8' BGL	ASTM D2974-87	PMST/1706		
258066045	6217 2'-3 BGL	ASTM D2974-87	PMST/1706		
258066046	6217 4-5 BGL	ASTM D2974-87	PMST/1706		
258066047	6218 3'-6 BGL	ASTM D2974-87	PMST/1706		
258066048	6218 7-8' BGL	ASTM D2974-87	PMST/1706		
258066049	6219 0-3 BGL	ASTM D2974-87	PMST/1706		
258066050	6219 3'-6 BGL	ASTM D2974-87	PMST/1706		
258066051	6220 0-3 BGL	ASTM D2974-87	PMST/1706		
258066052	6220 5'-6 BGL	ASTM D2974-87	PMST/1706		
258066053	6220 8-9 BGL	ASTM D2974-87	PMST/1706		
258066054	6221 0-3 BGL	ASTM D2974-87	PMST/1706		
258066055	6221 3-4.3 BGL	ASTM D2974-87	PMST/1706		
258066056	6222 0-3' BGL	ASTM D2974-87	PMST/1706		
258066057	6222 4-5 BGL	ASTM D2974-87	PMST/1706		
258066058	6222 5'-6 BGL	ASTM D2974-87	PMST/1706		
258066059	6222 11'-12' BGL	ASTM D2974-87	PMST/1706		
258066060	6223 0-3 BGL	ASTM D2974-87	PMST/1706		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hwy 62 Phase - 1
Pace Project No.: 258066

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
258066061	6223 6-9 BGL	ASTM D2974-87	PMST/1706		
258066062	6224 3'-6 BGL	ASTM D2974-87	PMST/1706		
258066063	6224 5.5-6.5 BGL	ASTM D2974-87	PMST/1706		
258066064	6225 0-3 BGL	ASTM D2974-87	PMST/1707		
258066065	6225 3'-5 BGL	ASTM D2974-87	PMST/1707		
258066066	6226 0-3 BGL	ASTM D2974-87	PMST/1707		
258066067	6226 5-6 BGL	ASTM D2974-87	PMST/1707		
258066068	6227 0-3 BGL	ASTM D2974-87	PMST/1707		
258066069	6227 4-5 BGL	ASTM D2974-87	PMST/1707		
258066070	6227 5-6 BGL	ASTM D2974-87	PMST/1707		
258066071	6228 0-3' BGL	ASTM D2974-87	PMST/1707		
258066072	6228 4-5 BGL	ASTM D2974-87	PMST/1707		
258066073	6229 0-3 BGL	ASTM D2974-87	PMST/1707		
258066074	6229 4'-5 BGL	ASTM D2974-87	PMST/1707		
258066075	6230 0-3 BGL	ASTM D2974-87	PMST/1707		
258066076	6230 4'-5 BGL	ASTM D2974-87	PMST/1707		
258066077	6231 0-3 BGL	ASTM D2974-87	PMST/1707		
258066078	6232 3-6 BGL	ASTM D2974-87	PMST/1707		
258066079	6233 0-3 BGL	ASTM D2974-87	PMST/1707		
258066080	6234 0-3 BGL	ASTM D2974-87	PMST/1707		
258066081	6234 3-4' BGL	ASTM D2974-87	PMST/1707		
258066082	6235 0-3' BGL	ASTM D2974-87	PMST/1707		
258066083	6235 3-6' BGL	ASTM D2974-87	PMST/1707		
258066084	6235 6-9 BGL	ASTM D2974-87	PMST/1708		
258066085	6236 0-3' BGL	ASTM D2974-87	PMST/1708		
258066086	6236 4-5 BGL	ASTM D2974-87	PMST/1708		

State of Oregon Sample Chain of Custody

258066

Agency, Authorized Purchaser or Agent: ODOT	**Contract Laboratory Name:** PACE	**Lab Selection Criteria:**	**Turn Around Time:**
Send Lab Report To: ODOT	**Lab Batch #:**	☐ Proximity (if TAT < 72 hrs)	X☐ 10 days (std.)
Address: 3500 Stewart Parkway, Roseburg, Oregon 97470	**Invoice To:**	☐ Prior work on same project	☐ 5 days
	Address: SAME	X☐ Cost (for anticipated analyses)	☐ 72 hours
Tel. #:		☐ Other labs disqualified or unable to perform requested services	☐ 48 hours
E-mail:	Tel. #:	☐ Emergency work	☐ 24 hours
			☐ Other

Project Name: Hwy 62 Phase-1
Project #:
Sampler Name: Kenny Camp

Sample Preservative

258066

#	Sample ID#	Collection Date/Time	Matrix	Number of Containers	NWTPH HCID	Total Metals RCRA 8	SVOC 8270 Full list	Comments
1	Stock Pile 6223 C/L	8:50 6/7	Soil	1		X		
2	Stockpile 6224N	8:32 6/7	"	1		X		
3	6201 0-3 BGL	12:50 6/6	"	1	X		X	
4	6201 3'-5.5 BGL	12:55 6/6	"	1	X			
5	6201B 0'-3 BGL	1:57 6/6	"	1	X			
6	6201B 4'-5' BGL	2:02 6/6	"	1	X			
7	6201B 5'-6' BGL	2:02 6/6	"	1	X			
8	6201C 0'-3 BGL	2:18 6/6	"	1	X			
9	6202 0-3 BGL	1:12 6/6	"	1	X			
10	6202B 0-3 BGL	2:45 6/6	"	1	X		X	
11	6203 1-2 BGL	3:16 6/6	"	1	X			
12	6203 2'-3' BGL	3:16 6/6	"	1	X			

Notes: If oil is detected in sample contact me for possible PCB Testing. KC

Relinquished By:	Agency/Agent: Fedex	Received By: Jyothi Sway	Agency/Agent: PACE
Signature:	Time & Date: 6/10/11 0950	Signature: [signature]	Time & Date: 6/10/11 0950
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

Received with ice at 1.1°C, 2.9°C, 0.6°C

258066 Page-2

State of Oregon Sample Chain of Custody

Agency, Authorized Purchaser or Agent: ODOT	**Contract Laboratory Name:** PACE	**Lab Selection Criteria:**	**Turn Around Time:**
Send Lab Report To: ODOT Address: 3500 Stewart Parkway, Roseburg, Oregon 97470 Tel. #: E-mail:	**Lab Batch #:** **Invoice To:** Address: SAME Tel. #:	☐ Proximity (if TAT < 72 hrs) ☐ Prior work on same project X☐ Cost (for anticipated analyses) ☐ Other labs disqualified or unable to perform requested services ☐ Emergency work	X☐ 10 days (std.) ☐ 5 days ☐ 72 hours ☐ 48 hours ☐ 24 hours ☐ Other

Project Name: Hwy 62 Phase-1
Project #:
Sampler Name: Kenny Camp

258066

Sample Preservative / Requested Analyses

	Sample ID#	Collection Date/Time	Matrix	Number of Contain-ers	NWTPH HCID	Total Metal Tox + 8	SVOC 8270	Full list Herbicides 8151	Pesticides 8081						Comments
13	6203 3'-6 BGL	3:21 6/6	Soil	1	X										
14	6203 6'-6.5 BGL	3:25 6/6	"	1	X										
15	6204 0'-2 BGL	1:35 6/6	"	1		X									
16	6205 0'-3' BGL	4:07 6/6	"	1	X										
17	6205 4'-5' BGL	4:12 6/6	"	1	X										
18	6205 5'-6' BGL	4:12 6/6	"	1	X										
19	6205 8'-9 BGL	4:16 6/6	"	1	X	X									
20	6206 1'-2' BGL	12:38 6/7	"	1				X							
21	6206 2'-3 BGL	12:28 6/7	"	1		X									
22	6207 0'-2.5 BGL	12:40 6/7	"	1	X	X									
23	6208 0'-3' BGL	12:55 6/7	"	1		X		X							
24	6208 4'-5' BGL	1:01 6/7	"	1		[illegible]		X							

Notes:

Relinquished By:	Agency/Agent: Fedex	Received By: Jyothi Sway	Agency/Agent: PACE
Signature:	Time & Date: 6/10/11 0950	Signature: [signature]	Time & Date: 6/10/11 0950
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

1.1°C, 2.9°C, 1.6°C

Version: 4/4/2008

Page - 3

State of Oregon Sample Chain of Custody 258066

Agency, Authorized Purchaser or Agent: ODOT	**Contract Laboratory Name:** PACE
Send Lab Report To: ODOT	**Lab Batch #:**
Address: 3500 Stewart Parkway, Roseburg, Oregon 97470	**Invoice To:**
Tel. #:	Address: SAME
E-mail:	Tel. #:

Lab Selection Criteria:
- ☐ Proximity (if TAT < 72 hrs)
- ☐ Prior work on same project
- X☐ Cost (for anticipated analyses)
- ☐ Other labs disqualified or unable to perform requested services
- ☐ Emergency work

Turn Around Time:
- X☐ 10 days (std.)
- ☐ 5 days
- ☐ 72 hours
- ☐ 48 hours
- ☐ 24 hours
- ☐ Other

Project Name: Hwy 62 Phase-1
Project #:
Sampler Name: Kenny Camp

Sample Preservative / Requested Analyses — 258066

	Sample ID#	Collection Date/Time	Matrix	Number of Containers	NW TPH-HCID	Total RCRA Metals 8	SVOC 8270 Full List	Herbicides 8151	Pesticides 8081	Comments
25	6209 0-3 BGL	1:19 6/7	Soil	1					X	
26	6209 3-4' BGL	1:23 6/7	"	1				X		
27	6210 0-3 BGL	1:49 6/7	"	1				X		
28	6210 3-4 BGL	1:57 6/7	"	1		X				
29	6211 0-3 BGL	2:09 6/7	"	1				X		
30	6211 4'-5' BGL	2:15 6/7	"	1		X				
31	6212 0-3 BGL	2:49 6/7	"	1	X		X			
32	6212 3'-4.3 BGL	2:32 6/7	"	1		X				
33	6213 0-3 BGL	2:39 6/7	"	1			X			
34	6213 4'-5 BGL	2:36 6/7	"	1	X					
35	6213 5-6 BGL	2:36 6/7	"	1	X					

Notes:

Relinquished By:	Agency/Agent: Fedx	Received By: Jyothi Swamy	Agency/Agent: PACE
Signature:	Time & Date: 6/10/11 0950	Signature:	Time & Date: 6/10/11 0950
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

1.1°C, 2.9°C, 0.6°C

Page - 4

State of Oregon Sample Chain of Custody

Agency, Authorized Purchaser or Agent: ODOT	**Contract Laboratory Name:** PACE **Lab Batch #:**	**Lab Selection Criteria:** ☐ Proximity (if TAT < 72 hrs) ☐ Prior work on same project X☐ Cost (for anticipated analyses) ☐ Other labs disqualified or unable to perform requested services ☐ Emergency work	**Turn Around Time:** X☐ 10 days (std.) ☐ 5 days ☐ 72 hours ☐ 48 hours ☐ 24 hours ☐ Other
Send Lab Report To: ODOT Address: 3500 Stewart Parkway, Roseburg, Oregon 97470 Tel. #: E-mail:	**Invoice To:** Address: SAME Tel. #:		
Project Name: Hwy 62 Phase-1 Project #: Sampler Name: Kenny Camp			258066

	Sample ID#	Collection Date/Time	Matrix	Number of Containers	Sample Preservative: HCl	Sample Preservative: Methanol	Requested Analyses: NWTPH-Hcid	Requested Analyses: Total Metals ARA + Sb	Requested Analyses: SVOC 8270 Full List	Comments
36	6214 0-3' BGL	4:42 6/6	Soil	1			X			
37	6214 4-5' BGL	4:44 6/6	"	"			X			
38	6214 5'-6' BGL	4:44 6/6	"	"			X			
39	6214 8'-9 BGL	4:45 6/6	"	"			X			
40	6215 0-3' BGL	7:59 6/8	"	"			X			
41	6215 3'-4.5 BGL	8:05 6/8	"	"					X	
42	6216 0-3' BGL	11:13 6/7	"	"			X			
43	6216 5-6' BGL	11:17 6/7	"	"			X	X		
44	6216 7'-8' BGL	11:19 6/7	"	"			X			
45	6217 2'-3 BGL	8:15 6/8	"	"			X			
46	6217 4'-5 BGL	8:18 6/8	"	"			X			
47	6218 3'6 BGL	8:31 6/8	"	"				X		

Notes:

Relinquished By:	Agency/Agent: Fedex	Received By: Tyotha Swag	Agency/Agent: PACE
Signature:	Time & Date: 6/10/11 0930	Signature:	Time & Date: 6/10/11 0952
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

1.1°C, 2.9°C, ~~0.0°C~~ NDS 6/10 0.6°C.

Version: 4/4/2008

Page - 5

State of Oregon Sample Chain of Custody

Agency, Authorized Purchaser or Agent:	Contract Laboratory Name:	Lab Selection Criteria:	Turn Around Time:
ODOT	**PACE**	☐ Proximity (if TAT < 72 hrs)	X☐ 10 days (std.)
Send Lab Report To: ODOT	**Lab Batch #:**	☐ Prior work on same project	☐ 5 days
Address: 3500 Stewart Parkway Roseburg, Oregon 97470	**Invoice To:**	X☐ Cost (for anticipated analyses)	☐ 72 hours
	Address: SAME	☐ Other labs disqualified or unable to perform requested services	☐ 48 hours
Tel. #:			☐ 24 hours
E-mail:	Tel. #:	☐ Emergency work	☐ Other

Project Name: Hwy 62 Phase-1
Project #:
Sampler Name: Kenny Camp

Sample Preservative / Requested Analyses

258066

	Sample ID#	Collection Date/Time	Matrix	Number of Contain-ers	NWTPH-HCID	Total Metal RCRA#8	SVOC 8270 Full list								Comments
48	6218 7-8' BGL	8:37 6/8	Soil	1	X										
49	6218 0-3 BGL	8:48 6/8	〃	1	X										
50	6219 3'-6 BGL	8:51 6/8	〃	1	X										
51	6820 0-3 BGL	10:30 6/7	〃	1		X									
52	6220 5'-6 BGL	10:33 6/7	〃	1	X										
53	6220 8-9 BGL	10:35 6/7	〃	1	X										
54	6221 0-3 BGL	9:05 6/8	〃	1			X								
55	6221 3-4.3 BGL	9:08 6/8	〃	1		X									
56	6222 0-3' BGL	9:50 6/7	〃	1	X										
57	6222 4-5 BGL	9:59 6/7	〃	1	X										
58	6222 5'-6 BGL	9:59 6/7	〃	1	X										
59	6222 11'-12' BGL	10:05 6/7	〃	1			X								

Notes:

Relinquished By:	Agency/Agent: Fedex	Received By: Jyoti Sway	Agency/Agent: PACE
Signature:	Time & Date: 6/10/11 0950	Signature: [signature]	Time & Date: 6/10/11 0950
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

1.1°C, 2.9°C, 0.6°C.

Version: 4/4/2008

Page - 6

State of Oregon Sample Chain of Custody

Agency, Authorized Purchaser or Agent: ODOT	**Contract Laboratory Name:** PACE **Lab Batch #:**	**Lab Selection Criteria:** ☐ Proximity (if TAT < 72 hrs) ☐ Prior work on same project X☐ Cost (for anticipated analyses) ☐ Other labs disqualified or unable to perform requested services ☐ Emergency work	**Turn Around Time:** X☐ 10 days (std.) ☐ 5 days ☐ 72 hours ☐ 48 hours ☐ 24 hours ☐ Other
Send Lab Report To: ODOT Address: 3500 Stewart Parkway, Roseburg, Oregon 97470 Tel. #: E-mail:	**Invoice To:** Address: SAME Tel. #: Tom		
Project Name: Hwy 62 Phase-1 Project #: Sampler Name: Kenny Camp			258066

	Sample ID#	Collection Date/Time	Matrix	Number of Containers	Sample Preservative: HCl	Sample Preservative: Methyl	Requested Analyses: NW TPH	Requested Analyses: Total +8	Comments
60	6223 0-3 BGL	9:16 6/7	Soil	1		X			
61	6223 6-9 BGL	9:22 6/7	"	1	X				
62	6224 3'-4 BGL	8:35 6/7	"	1	X				
63	6224 5.5-6.5 BGL	8:55 6/7	"	1	X				
64	6225 0-3 BGL	8:07 6/7	"	1	X				
65	6225 3'-5 BGL	8:14 6/7	"	1	X				
66	6226 0-3 BGL	7:36 6/7	"	1	X				
67	6226 5-6 BGL	7:39 6/7	"	1	X	X			
68	6227 0-3 BGL	7:18 6/7	"	1	X				
69	6227 4-5 BGL	7:25 6/7	"	1	X				
70	6227 5-6' BGL	7:20 6/7	"	1	X				

Notes:

Relinquished By:	Agency/Agent: Fedex	Received By: Jyothi Swamy	Agency/Agent: PACE
Signature:	Time & Date: 6/10/11 0950	Signature:	Time & Date: 6/10/11 0750
Relinquished By:	Agency/Agent: /	Received By:	Agency/Agent: /
Signature:	Time & Date:	Signature:	Time & Date:

1-1, 2.9, 0.6°C.

Version: 4/4/2008

Page -7

State of Oregon Sample Chain of Custody

Agency, Authorized Purchaser or Agent: ODOT

Send Lab Report To: ODOT
Address: 3500 Stewart Parkway
Roseburg, Oregon 97470
Tel. #:
E-mail:

Contract Laboratory Name: PACE
Lab Batch #:
Invoice To:
Address: SAME
Tel. #:

Lab Selection Criteria:
- ☐ Proximity (if TAT < 72 hrs)
- ☐ Prior work on same project
- X☐ Cost (for anticipated analyses)
- ☐ Other labs disqualified or unable to perform requested services
- ☐ Emergency work

Turn Around Time:
- X☐ 10 days (std.)
- ☐ 5 days
- ☐ 72 hours
- ☐ 48 hours
- ☐ 24 hours
- ☐ Other

Project Name: Hwy 62 Phase-1
Project #:
Sampler Name: Kenny Camp

258066

	Sample ID#		Collection Date/Time	Matrix	Number of Contain-ers	NWTPH-HCID	Metals 7 Total 8 RCRA	SVOC 8270 Full list								Comments
71	6228	0-3' BGL	11:04 6/6	Soil	1	X										
72	6228	4-5 BGL	11:11 6/6	"	1	X										
73	6229	0-3 BGL	11:25 6/6	"	1		X									
74	6229	4'5 BGL	11:30 6/6	"	1	X										
75	6230	0-3 BGL	10:36 6/6	"	1	X		X								
76	6230	4'-5 BGL	10:45 6/6	"	1	X	X									
77	6231	0-3 BGL	9:55 6/6	"	1	X		X								
78	6232	3-6 BGL	9:18 6/6	"	1		X									
79	6233	0-3 BGL	8:51 6/6	"	1	X										
80	6234	0-3 BGL	8:26 6/6	"	1	X										
81	6234	3-4' BGL	8:30 6/6	"	1		X									
82	6235	0-3' BGL	7:55 6/6	"	1	X		X								

Notes:

Relinquished By:	Agency/Agent: Fedex	Received By: Jyothi Swamy	Agency/Agent: PACE
Signature:	Time & Date: 6/10/11 0950	Signature: [signature]	Time & Date: 6/10/11 0950
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

1.1°C, 2.9°C, 0.6°C.

Version: 4/4/2008

Page - 8

State of Oregon Sample Chain of Custody

Agency, Authorized Purchaser or Agent: ODOT

Send Lab Report To: ODOT
Address: 3500 Stewart Parkway
Roseburg, Oregon 97470
Tel. #:
E-mail:

Contract Laboratory Name: PACE
Lab Batch #:
Invoice To:
Address: SAME
Tel. #:

Lab Selection Criteria:
- ☐ Proximity (if TAT < 72 hrs)
- ☐ Prior work on same project
- X☐ Cost (for anticipated analyses)
- ☐ Other labs disqualified or unable to perform requested services
- ☐ Emergency work

Turn Around Time:
- X☐ 10 days (std.)
- ☐ 5 days
- ☐ 72 hours
- ☐ 48 hours
- ☐ 24 hours
- ☐ Other

Project Name: Hwy 62 Phase-1
Project #:
Sampler Name: Kenny Camp

2 5 8 0 6 6

	Sample ID#	Collection Date/Time	Matrix	Number of Containers	NWTPH HCID	Metals + Total Lead									Comments
83	6235 3-6' BGL	7:58 6/6	Soil	1	X										
84	6235 6-9 BGL	8:03 6/6	"	1	X										
85	6236 0-3' BGL	7:07 6/6	"	1	X										
86	6236 4-5 BGL	7:12 6/6	"	1		X									

Notes:

Relinquished By:	Agency/Agent: Fedex	Received By: Jyothi Siva	Agency/Agent: PACE
Signature:	Time & Date: 6/10/11 0950	Signature:	Time & Date: 6/10/11 0950
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

1.1°C, 2.9°C, 0.6°C.

2 5 8 0 6 6

Sample Container Count

Pace Analytical™
www.pacelabs.com

CLIENT: ODOT

COC PAGE 1 of 8

COC ID# ____

~~2 5 8 0 6 6~~ 6/10

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU	Sleeve			Comments
1											1				
2											1				
3												1			
4												↓			
5												↓			
6												↓			
7												↓			
8												↓			
9												↓			
10												↓			
11												↓			
12												↓			Trip Blank? No

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic	JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic	R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac	U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic	VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic	VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic	VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial	VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial	WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial	WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial	ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial		
BP2O	500mL NaOH plastic		I	Wipe/Swab		

Sample Container Count

258066

CLIENT: ODOT

COC PAGE 2 of 8

COC ID# —

Pace Analytical
www.pacelabs.com

~~258066~~ 16

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU	Sleeve			Comments
1												1			
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12												↓			Trip Blank? No

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic	JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic	R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac	U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic	VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic	VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic	VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial	VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial	WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial	WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial	ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial		
BP2O	500mL NaOH plastic		I	Wipe/Swab		

Sample Container Count

CLIENT: ODOT

Pace Analytical www.pacelabs.com

258066

COC PAGE 3 of 8

COC ID# _____

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU	sleeve			Comments
1												1			
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															Trip Blank? No

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic	JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic	R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac	U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic	VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic	VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic	VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial	VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial	WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial	WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial	ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial		
BP2O	500mL NaOH plastic		I	Wipe/Swab		

Sample Container Count

258066

CLIENT: ODOT

COC PAGE 4 of 8

COC ID# —

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU	sleeve			Comments
1												1			
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															Trip Blank? No

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic		JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic		R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac		U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic		VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic		VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic		VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic		VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial		VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial		WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial		WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial		ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial			
BP2O	500mL NaOH plastic		I	Wipe/Swab			

Sample Container Count

258066

CLIENT: ODOT

COC PAGE 5 of 8

COC ID# _____

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU	sleeve			Comments
1												1			
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															Trip Blank? No

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic		JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic		R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac		U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic		VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic		VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic		VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic		VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial		VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial		WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial		WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial		ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial			
BP2O	500mL NaOH plastic		I	Wipe/Swab			

Sample Container Count

258066

CLIENT: ODOT

COC PAGE 6 of 8

COC ID# _____

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU	sleeve			Comments
1												1			
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															Trip Blank? No

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic		JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic		R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac		U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic		VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic		VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic		VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic		VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial		VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial		WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial		WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial		ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial			
BP2O	500mL NaOH plastic		I	Wipe/Swab			

Sample Container Count

258066

CLIENT: ODOT

Pace Analytical

COC PAGE 7 of 8

COC ID# —

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU	sleeve			Comments
1												1			
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															Trip Blank? No

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic	JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic	R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac	U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic	VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic	VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic	VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial	VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial	WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial	WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial	ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial		
BP2O	500mL NaOH plastic		I	Wipe/Swab		

Sample Container Count

258066

CLIENT: ODOT

Pace Analytical

COC PAGE 8 of 8

COC ID# ____

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU	sleeve			Comments
1												1			
2												1			
3												1			
4												1			
5															
6															
7															
8															
9															
10															
11															
12															Trip Blank? No

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic		JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic		R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac		U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic		VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic		VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic		VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic		VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial		VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial		WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial		WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial		ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial			
BP2O	500mL NaOH plastic		I	Wipe/Swab			

Sample Condition Upon Receipt

Pace Analytical

Client Name: ODOT Project # 258066

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8157 9428 9404

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____ Temp. Blank Yes (No)

Thermometer Used 132013 or 101731962 or 226093 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.1°C, 2.9°, 0.6°C Biological Tissue is Frozen: Yes No

Temp should be above freezing ≤ 6°C

Comments:

Date and Initials of person examining contents: NJS 6/10/11

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☐Yes	☑No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☐No	☐N/A	6. Sampling began 6/6/11.
Rush Turn Around Time Requested:	☑Yes	☑No	☐N/A	7. HCID.
Follow Up / Hold Analysis Requested:	☑Yes	☐No	☐N/A	8.
Sufficient Volume:	☑Yes	☐No	☐N/A	9.
Correct Containers Used:	☑Yes	☐No	☐N/A	10. Sleeves.
-Pace Containers Used:	☐Yes	☑No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	11.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	12.
Sample Labels match COC:	☑Yes	☐No	☐N/A	13. On sleeve it reads '6209 3-4-5' on COC ✓ it reads '6209 3-4'
-Includes date/time/ID/Analysis Matrix: Soil				
All containers needing preservation have been checked	☐Yes	☐No	☑N/A	14. Sleeve reads "HCID" for 6230 0-3, on COC, tested for 8270.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
Exceptions: VOA, coliform, TOC, O&G				Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	15.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blanks Present:	☐Yes	☑No	☐N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Kenny Camp Date/Time: 6/13/11 0853

Comments/ Resolution: Called Client regarding above ID and analysis discrepancies. Per client, use old 6209 3-4 as on COC. Also for 6230 0-3 schedule for both 8270 and HCID

* HCID on WO 258062 -

Project Manager Review: QR3 Date: 6/13/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp. incorrect containers)

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

June 28, 2011

Andy Brownfield
PASI Seattle
940 South Harney
Seattle, WA 98108

RE: Project 20124332
Project ID: 258066/ODOT

Dear Andy Brownfield:

Enclosed are the analytical results for sample(s) received by the laboratory on June 14, 2011. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Karen Brown
karen.brown@pacelabs.com

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

Cover 6/28/2011 14:54:58

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Laboratory Certifications

Project: 20124332

Client: PASI Seattle

Project ID: 258066/ODOT

Washington Department of Ecology C2078

Oregon Environmental Laboratory Accreditation - LA200001

U.S. Dept. of Agriculture Foreign Soil Import P330-10-00119

Pennsylvania Dept. of Env Protection (NELAC) 68-04202

Texas Commission on Env. Quality (NELAC) T104704405-09-TX

Kansas Department of Health and Environment (NELAC) E-10266

Florida Department of Health (NELAC) E87595

Louisiana Dept. of Environmental Quality (NELAC/LELAP) 02006

ACCREDITED IN ACCORDANCE WITH nelac

REPORT OF LABORATORY ANALYSIS

Pace Analytical™

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Sample Cross Reference

Project: 20124332

Client: PASI Seattle

Project ID: 258066/ODOT

Client Sample ID	Lab ID	Matrix	Collection Date/Time	Received Date/Time
258066020	20893631	Soil	07-Jun-11 12:28	14-Jun-11 10:10
258066023	20893632	Soil	07-Jun-11 12:55	14-Jun-11 10:10
258066024	20893633	Soil	07-Jun-11 13:01	14-Jun-11 10:10
258066025	20893634	Soil	07-Jun-11 13:19	14-Jun-11 10:10
258066026	20893635	Soil	07-Jun-11 13:23	14-Jun-11 10:10
258066027	20893636	Soil	07-Jun-11 13:49	14-Jun-11 10:10
258066029	20893637	Soil	07-Jun-11 14:09	14-Jun-11 10:10

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Project Narrative

Project: 20124332

Sample Receipt Condition:

All samples were received in accordance with EPA protocol.

Holding Times (Qualified):

These holding times were exceeded due to sample receipt or re-extraction after the holding time had expired.

See the previous page for a detailed explanation:

Sample 20893632 analysis 35468151 8151 Soil MWave Herbs

Blanks:

All blank results were below reporting limits.

Laboratory Control Samples:

All LCS recoveries were within QC limits.

Matrix Spikes and Duplicates:

MS or MSD recoveries outside of QC limits are qualified in the Report of Quality Control section.

Surrogates:

Surrogate recoveries outside of QC limits are qualified in the surrogate results section.

Pace Analytical™

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

QC Cross Reference

Project: 20124332

Analytical Method	Batch	Sample used for QC
EPA 8151	163057	Project sample 258066020
EPA 8081	163070	Project sample 258066025
EPA 8151	163715	Project sample 258066023
Dry Weight Moisture	163087	Batch sample from another client

For the sample used as the original for the DUP or MS/MSD for the batch:

Project sample means a sample from this project was used.
Client sample means a sample from the same client but in a different project was used.
Batch sample means a sample from a different client was used.

Pace Analytical™

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Sample Results

Client: PASI Seattle

Client ID: 258066020
Project ID: 258066/ODOT
Lab ID: 20893631
Description: None
Method: EPA 8151
8151 Herbs Low Soil

Project: 20124332
Site: None
Matrix: Soil
Prep Level: Soil
% Moisture: 26.7 Corrected
Batch: 163057

Collected: 07-Jun-11
Received: 14-Jun-11
Prepared: 15-Jun-11

Units: ug/kg

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis	
94-75-7	2,4-D	1	ND		90.9		23-Jun-11 23:31	SLF
93-76-5	2,4,5-T	1	ND		90.9		23-Jun-11 23:31	SLF
93-72-1	2,4,5-TP (Silvex)	1	ND		90.9		23-Jun-11 23:31	SLF

3 compound(s) reported

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Protocol 6/28/2011 14:55:39
Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical™

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Sample Results

Client: PASI Seattle

Client ID: 258066023
Project ID: 258066/ODOT
Lab ID: 20893632
Description: None
Method: EPA 8151
8151 Herbs Low Soil

Project: 20124332
Site: None
Matrix: Soil
Prep Level: Soil
% Moisture: 46.3 Corrected
Batch: 163057
Collected: 07-Jun-11
Received: 14-Jun-11
Prepared: 15-Jun-11

Units: ug/kg

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis	
94-75-7	2,4-D	1	ND	M1,N	117.		24-Jun-11 00:40	SLF
93-76-5	2,4,5-T	1	ND	M1,N	117.		24-Jun-11 00:40	SLF
93-72-1	2,4,5-TP (Silvex)	1	ND	M1,N	117.		24-Jun-11 00:40	SLF

3 compound(s) reported

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Protocol 6/28/2011 14:55:39
Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical™

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Sample Results

Client: PASI Seattle

Client ID: 258066023
Project ID: 258066/ODOT
Lab ID: 20893632RE1
Description: None
Method: EPA 8151
8151 Herbs Low Soil

Project: 20124332
Site: None
Matrix: Soil
Prep Level: Soil
% Moisture: 46.3 Corrected
Batch: 163715
Collected: 07-Jun-11
Received: 14-Jun-11
Prepared: 24-Jun-11

Units: ug/kg

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis
94-75-7	2,4-D	1	ND	M1,N	122.		28-Jun-11 10:36 SPP1
93-76-5	2,4,5-T	1	ND	M1,N	122.		28-Jun-11 10:36 SPP1
93-72-1	2,4,5-TP (Silvex)	1	ND	M1,N	122.		28-Jun-11 10:36 SPP1

3 compound(s) reported

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Protocol 6/28/2011 14:55:39
Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical™

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Sample Results

Client: PASI Seattle

Client ID: 258066024
Project ID: 258066/ODOT
Lab ID: 20893633
Description: None
Method: EPA 8151
8151 Herbs Low Soil

Project: 20124332
Site: None
Matrix: Soil
Prep Level: Soil
Collected: 07-Jun-11
Prepared: 15-Jun-11

% Moisture: 31.2 Corrected
Batch: 163057
Received: 14-Jun-11

Units: ug/kg

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis	
94-75-7	2,4-D	1	ND		92.0		24-Jun-11 01:03	SLF
93-76-5	2,4,5-T	1	ND		92.0		24-Jun-11 01:03	SLF
93-72-1	2,4,5-TP (Silvex)	1	ND		92.0		24-Jun-11 01:03	SLF

3 compound(s) reported

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Protocol 6/28/2011 14:55:39
Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical™

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Sample Results

Client: PASI Seattle

Client ID: 258066025
Project ID: 258066/ODOT
Lab ID: 20893634
Description: None
Method: EPA 8081
8081 Pests Low Soil

Project: 20124332
Site: None
Matrix: Soil
Prep Level: Soil
% Moisture: 28 Corrected
Batch: 163070

Collected: 07-Jun-11
Received: 14-Jun-11
Prepared: 15-Jun-11

Units: ug/kg

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis	
309-00-2	Aldrin	1	ND		2.28		17-Jun-11 13:21	TWB
319-84-6	alpha-BHC	1	ND		2.28		17-Jun-11 13:21	TWB
319-85-7	beta-BHC	1	ND		2.28		17-Jun-11 13:21	TWB
319-86-8	delta-BHC	1	ND		2.28		17-Jun-11 13:21	TWB
58-89-9	gamma-BHC (Lindane)	1	ND		2.28		17-Jun-11 13:21	TWB
5103-71-9	alpha-Chlordane	1	ND		2.28		17-Jun-11 13:21	TWB
5103-74-2	gamma-Chlordane	1	ND		2.28		17-Jun-11 13:21	TWB
72-54-8	4,4'-DDD	1	ND		4.46		17-Jun-11 13:21	TWB
72-55-9	4,4'-DDE	1	9.46		4.46		17-Jun-11 13:21	TWB
50-29-3	4,4'-DDT	1	ND		4.46		17-Jun-11 13:21	TWB
60-57-1	Dieldrin	1	ND		4.46		17-Jun-11 13:21	TWB
959-98-8	Endosulfan I	1	ND		2.28		17-Jun-11 13:21	TWB
33213-65-9	Endosulfan II	1	ND		4.46		17-Jun-11 13:21	TWB
1031-07-8	Endosulfan sulfate	1	ND		4.46		17-Jun-11 13:21	TWB
72-20-8	Endrin	1	ND		4.46		17-Jun-11 13:21	TWB
7421-93-4	Endrin aldehyde	1	ND		4.46		17-Jun-11 13:21	TWB
53494-70-5	Endrin ketone	1	ND		4.46		17-Jun-11 13:21	TWB
76-44-8	Heptachlor	1	ND		2.28		17-Jun-11 13:21	TWB
1024-57-3	Heptachlor epoxide	1	ND		2.28		17-Jun-11 13:21	TWB
72-43-5	Methoxychlor	1	ND		22.4		17-Jun-11 13:21	TWB
8001-35-2	Toxaphene	1	ND		89.3		17-Jun-11 13:21	TWB

21 compound(s) reported

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Protocol 6/28/2011 14:55:39
Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical™

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Sample Results

Client: PASI Seattle

Client ID: 258066026
Project ID: 258066/ODOT
Lab ID: 20893635
Description: None
Method: EPA 8151
8151 Herbs Low Soil

Project: 20124332
Site: None
Matrix: Soil
Prep Level: Soil
Collected: 07-Jun-11
Prepared: 15-Jun-11

% Moisture: 29.3 Corrected
Batch: 163057
Received: 14-Jun-11

Units: ug/kg

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis	
94-75-7	2,4-D	1	ND		91.6		24-Jun-11 01:26	SLF
93-76-5	2,4,5-T	1	ND		91.6		24-Jun-11 01:26	SLF
93-72-1	2,4,5-TP (Silvex)	1	ND		91.6		24-Jun-11 01:26	SLF

3 compound(s) reported

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Protocol 6/28/2011 14:55:39
Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical™

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Sample Results

Client: PASI Seattle

Client ID: 258066027
Project ID: 258066/ODOT
Lab ID: 20893636
Description: None
Method: EPA 8151
8151 Herbs Low Soil

Project: 20124332
Site: None
Matrix: Soil
Prep Level: Soil
Collected: 07-Jun-11
Prepared: 15-Jun-11

% Moisture: 26.9 Corrected
Batch: 163057
Received: 14-Jun-11

Units: ug/kg

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis	
94-75-7	2,4-D	1	ND		90.3		24-Jun-11 01:49	SLF
93-76-5	2,4,5-T	1	ND		90.3		24-Jun-11 01:49	SLF
93-72-1	2,4,5-TP (Silvex)	1	ND		90.3		24-Jun-11 01:49	SLF

3 compound(s) reported

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Protocol 6/28/2011 14:55:39
Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical™

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Sample Results

Client: PASI Seattle

Client ID: 258066029
Project ID: 258066/ODOT
Lab ID: 20893637
Description: None
Method: EPA 8151
8151 Herbs Low Soil

Project: 20124332
Site: None
Matrix: Soil
Prep Level: Soil
% Moisture: 27.6 Corrected
Batch: 163057
Collected: 07-Jun-11
Received: 14-Jun-11
Prepared: 15-Jun-11

Units: ug/kg

CAS No.	Analyte	Dilution	Result	Qu	Reporting Limit	Reg Limit	Analysis	
94-75-7	2,4-D	1	ND		86.7		24-Jun-11 02:12	SLF
93-76-5	2,4,5-T	1	ND		86.7		24-Jun-11 02:12	SLF
93-72-1	2,4,5-TP (Silvex)	1	ND		86.7		24-Jun-11 02:12	SLF

3 compound(s) reported

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Protocol 6/28/2011 14:55:39
Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical™

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Surrogate Recovery

Batch: 163057 **Project:** 20124332

Method: Soil GC Semivolatile Organics

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20893752	163057 BLANK 1		99	93						
20893753	163057 LCS 1		102	102						
20893631	258066020		48	46						
20893754	258066020 MS 1		103	92						
20893755	258066020 MSD 1		120	107						
20893632	258066023	N	10	9 *						
20893633	258066024		49	47						
20893635	258066026		21	19						
20893636	258066027		51	52						
20893637	258066029		23	20						
	QC limits:		10-169	10-161						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

Surrogates 6/28/2011 14:55:40

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Surrogate Recovery

Batch: 163070 **Project:** 20124332

Method: Soil GC Semivolatile Organics

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20893810	163070 BLANK 1		95	88	88	81				
20893811	163070 LCS 1		100	94	97	92				
20893634	258066025		82	74	91	84				
20893808	258066025 MS 1		89	80	96	89				
20893809	258066025 MSD 1		96	88	94	87				
	QC limits:		15-179	15-177	10-144	10-178				

Sur 1: Decachlorobiphenyl (Conf)(S)
Sur 2: Decachlorobiphenyl (S)
Sur 3: Tetrachloro-m-xylene (Conf)(S)
Sur 4: Tetrachloro-m-xylene (S)

*** denotes surrogate recovery outside of QC limits.**

D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

Surrogates 6/28/2011 14:55:40

Pace Analytical™

Surrogate Recovery

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Batch: 163715 **Project:** 20124332

Method: Soil GC Semivolatile Organics

Lab ID	Sample ID	Qu	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
20896836	163715 BLANK 1		62	60						
20896837	163715 LCS 1		105	99						
20893632	258066023	N	3 *	2 *						
20896838	258066023 MS 1		90	77						
20896839	258066023 MSD 1		92	84						
	QC limits:		10-169	10-161						

Sur 1: 2,4-DCPA (Conf)(S)
Sur 2: 2,4-DCPA (S)

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Batch: 163070 **Project:** 20124332 **LCS:** 20893811 17-Jun-11 10:56

Method: Soil GC Semivolatile Organics **MS:** 20893808 17-Jun-11 13:37

Units: ug/kg **MSD:** 20893809 17-Jun-11 13:53

Original for MS: Client Sample 20893634

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
Aldrin	16.0	12.4	78	21.9		19.0	19.3	87	84	2	28-135	10-167	22	
alpha-BHC	16.0	12.5	78	21.9		19.9	19.6	91	85	1	27-135	10-175	20	
beta-BHC	16.0	12.9	81	21.9		20.1	19.9	92	86	1	30-136	10-188	24	
delta-BHC	16.0	12.0	75	21.9		18.8	18.7	86	82	0	20-147	10-182	22	
gamma-BHC (Lindane)	16.0	12.5	78	21.9		19.8	19.7	91	86	1	29-136	10-181	21	
alpha-Chlordane	16.0	13.5	84	21.9		20.8	21.2	95	92	2	31-139	10-180	20	
gamma-Chlordane	16.0	12.8	80	21.9		19.8	20.1	91	87	2	32-138	10-176	20	
4,4'-DDD	16.0	13.3	83	21.9		20.6	21.0	94	91	2	31-145	10-188	20	
4,4'-DDE	16.0	13.2	82	21.9	9.46	38.9	50.6	135	179	26 *	32-142	10-182	20	
4,4'-DDT	16.0	12.9	81	21.9	1.29	21.5	24.3	92	100	12	29-136	10-181	20	
Dieldrin	16.0	12.9	81	21.9	1.35	23.2	23.8	100	98	3	32-137	10-170	20	
Endosulfan I	16.0	9.52	60	21.9		15.2	15.2	69	66	0	10-121	10-160	24	
Endosulfan II	16.0	10.2	64	21.9		16.4	16.3	75	71	1	10-123	10-175	20	
Endosulfan sulfate	16.0	13.7	86	21.9		20.6	20.5	94	89	0	28-146	10-171	20	
Endrin	16.0	12.1	76	21.9		19.7	21.3	90	93	8	31-168	10-204	20	
Endrin aldehyde	16.0	12.8	80	21.9		18.7	18.7	86	81	0	20-143	10-176	22	
Endrin ketone	16.0	14.4	90	21.9		22.1	21.5	101	94	2	25-145	10-184	21	
Heptachlor	16.0	13.3	83	21.9		20.6	20.8	94	91	1	31-135	10-161	25	
Heptachlor epoxide	16.0	13.1	82	21.9		21.1	21.2	97	92	0	26-133	10-177	23	
Methoxychlor	16.0	15.0	94	21.9		26.3	27.9	120	121	6	27-155	10-207	23	

20 compound(s) reported

* denotes recovery outside of QC limits.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

QC Protocol 6/28/2011 14:55:41

Pace Analytical™

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Quality Control

Batch: 163057 **Project:** 20124332 **LCS:** 20893753 23-Jun-11 23:08

Method: Soil GC Semivolatile Organics **MS:** 20893754 23-Jun-11 23:54

Units: ug/kg **MSD:** 20893755 24-Jun-11 0:17

Original for MS: Client Sample 20893631

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
2,4-D	667.	700.	105	900.	15.3	304.	1110	32	121	114 *	10-189	10-165	35	
2,4,5-T	66.7	69.9	105	90.0		49.7	148.	55	163	99 *	20-193	10-178	34	
2,4,5-TP (Silvex)	66.7	69.3	104	90.0		73.6	115.	82	127	44 *	34-188	10-184	34	

3 compound(s) reported

* denotes recovery outside of QC limits.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

QC Protocol 6/28/2011 14:55:41

Pace Analytical™

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Quality Control

Batch: 163715 **Project:** 20124332 **LCS:** 20896837 28-Jun-11 10:13

Method: Soil GC Semivolatile Organics **MS:** 20896838 28-Jun-11 10:59

Units: ug/kg **MSD:** 20896839 28-Jun-11 11:21

Original for MS: Client Sample 20893632

Parameter Name	LCS Spike	LCS Found	LCS %Rec	MS Spike	Sample Found	MS Found	MSD Found	MS %Rec	MSD %Rec	RPD	QC Limits LCS	QC Limits MS/MSD	Max RPD	Qu
2,4-D	667.	636.	95	1220		692.	845.	57	69	20	10-189	10-165	35	
2,4,5-T	66.7	69.6	104	122.		85.3	99.7	70	81	16	20-193	10-178	34	
2,4,5-TP (Silvex)	66.7	57.8	87	122.		86.8	105.	71	86	19	34-188	10-184	34	

3 compound(s) reported

* denotes recovery outside of QC limits.
MS/MSD RPD is calculated via SW-846 rules on the basis of spiked sample concentrations rather than spike recoveries.

QC Protocol 6/28/2011 14:55:41

Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Blank ID: 163057 BLANK 1 **Project:** 20124332

Lab ID: 20893752

Prep Level: Soil **Batch:** 163057

Method: Soil GC Semivolatile Organics

Prepared: 15-Jun-11

Units: ug/kg

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	Analysis
94-75-7	2,4-D	1	ND		66.7	23-Jun-11 22:45 SLF
93-76-5	2,4,5-T	1	ND		66.7	23-Jun-11 22:45 SLF
93-72-1	2,4,5-TP (Silvex)	1	ND		66.7	23-Jun-11 22:45 SLF

3 compound(s) reported

Protocol Blank 6/28/2011 14:55:4

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical™

Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Blank ID: 163070 BLANK 1 **Project:** 20124332

Lab ID: 20893810

Prep Level: Soil **Batch:** 163070

Method: Soil GC Semivolatile Organics

Prepared: 15-Jun-11

Units: ug/kg

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	Analysis
309-00-2	Aldrin	1	ND		1.63	17-Jun-11 10:40 TWB
319-84-6	alpha-BHC	1	ND		1.63	17-Jun-11 10:40 TWB
319-85-7	beta-BHC	1	ND		1.63	17-Jun-11 10:40 TWB
319-86-8	delta-BHC	1	ND		1.63	17-Jun-11 10:40 TWB
58-89-9	gamma-BHC (Lindane)	1	ND		1.63	17-Jun-11 10:40 TWB
5103-71-9	alpha-Chlordane	1	ND		1.63	17-Jun-11 10:40 TWB
5103-74-2	gamma-Chlordane	1	ND		1.63	17-Jun-11 10:40 TWB
72-54-8	4,4'-DDD	1	ND		3.20	17-Jun-11 10:40 TWB
72-55-9	4,4'-DDE	1	ND		3.20	17-Jun-11 10:40 TWB
50-29-3	4,4'-DDT	1	ND		3.20	17-Jun-11 10:40 TWB
60-57-1	Dieldrin	1	ND		3.20	17-Jun-11 10:40 TWB
959-98-8	Endosulfan I	1	ND		1.63	17-Jun-11 10:40 TWB
33213-65-9	Endosulfan II	1	ND		3.20	17-Jun-11 10:40 TWB
1031-07-8	Endosulfan sulfate	1	ND		3.20	17-Jun-11 10:40 TWB
72-20-8	Endrin	1	ND		3.20	17-Jun-11 10:40 TWB
7421-93-4	Endrin aldehyde	1	ND		3.20	17-Jun-11 10:40 TWB
53494-70-5	Endrin ketone	1	ND		3.20	17-Jun-11 10:40 TWB
76-44-8	Heptachlor	1	ND		1.63	17-Jun-11 10:40 TWB
1024-57-3	Heptachlor epoxide	1	ND		1.63	17-Jun-11 10:40 TWB
72-43-5	Methoxychlor	1	ND		16.0	17-Jun-11 10:40 TWB
8001-35-2	Toxaphene	1	ND		64.0	17-Jun-11 10:40 TWB

21 compound(s) reported

Protocol Blank 6/28/2011 14:55:4

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Blank Results

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Blank ID: 163715 BLANK 1 **Project:** 20124332

Lab ID: 20896836

Prep Level: Soil **Batch:** 163715

Method: Soil GC Semivolatile Organics

Prepared: 24-Jun-11

Units: ug/kg

CAS Numb	Analyte	Dilution	Result	Qu	Reporting Limit	Analysis
94-75-7	2,4-D	1	ND		66.7	28-Jun-11 09:50 SPP1
93-76-5	2,4,5-T	1	ND		66.7	28-Jun-11 09:50 SPP1
93-72-1	2,4,5-TP (Silvex)	1	ND		66.7	28-Jun-11 09:50 SPP1

3 compound(s) reported

Protocol Blank 6/28/2011 14:55:4

ND denotes the analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.

Limits are corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
Regulatory limit may denote an actual regulatory limit or a client-requested notification limit.

Pace Analytical™

Pace Analytical Services, Inc.
1000 Riverbend Blvd. Suite F
St. Rose, LA 70087
(504) 469-0333

Definitions/Qualifiers

Project: 20124332

Value	Description
M1	The sample required reextraction and/or reanalysis due to surrogate recoveries outside the QC limits. Reanalysis yielded similar results, indicating a sample matrix effect. The results reported are from the original analysis.
N	See narrative for a detailed explanation.
J	This estimated value for the analyte is below the adjusted reporting limit but above the instrument reporting limit.
U	The analyte was analyzed for but not detected at the reporting limit or method detection limit indicated.
B	This analyte was detected in the method blank.
E	The sample concentration is above the linear calibrated range of the analysis.
LCS	Laboratory Control Sample.
MS(D)	Matrix Spike (Duplicate).
DUP	Sample Duplicate.
RPD	Relative Percent Difference.

Pace Analytical Services, In
1000 Riverbend Blvd. Suite F
St. Rose, LA 7008
(504) 469-033

Chains of Custody

20124332 PASI-SEAT

Chain of Custody

20124332

Pace Analytical®
www.pacelabs.com

Workorder: 258066 **Workorder Name:** Hwy 62 Phase - 1 **Owner Received Date:** 6/10/2011 **Results Requested By:** 6/24/2011

Report to	Subcontract to
Andy Brownfield Pace Analytical Services, Inc. 940 South Harney Seattle WA 98108 Phone (206)767-5060 Fax (206)767-5063	Pace Analytical New Orleans 1000 Riverbend Blvd Suite F St. Rose, LA 70087 Phone (504)469-0333

Item	Sample ID	Sample Type	Collected Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: 6/7/11 NSS	Herbicides 8151	Pesticides 8081	LAB USE ONLY
1	6206 1'-2' BGL	PS	6/7/2011 12:28	258066020	Solid	1	X	4		20893631
2	6208 0'-3' BGL	PS	6/7/2011 12:55	258066023	Solid	1	X	4		632
3	6208 4'-5' BGL	PS	6/7/2011 13:01	258066024	Solid	1	X	4		633
4	6209 0-3 BGL	PS	6/7/2011 13:19	258066025	Solid	1	X		4	634
5	6209 3-4' BGL	PS	6/7/2011 13:23	258066026	Solid	1	X	4		635
6	6210 0-3 BGL	PS	6/7/2011 13:49	258066027	Solid	1	X	4		636
7	6211 0-3 BGL	PS	6/7/2011 14:09	258066029	Solid	1	X	4		637

Transfers	Released By	Date/Time	Received By	Date/Time
1	Jyothi Swaroop	6/13/11 1:30		
2	FedEx	6/14/11 10:10	J Mueller	6-14-11
3				

Comments: 1010

Cooler Temperature on Receipt 2.0°C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) or N

20124332 PASI-SEAT

Pace Analytical

1000 Riverbend. Blvd., Suite F
St. Rose, LA 70087

Sample Conditi

Project #: 20

Courier: ☐ Pace Courier ☐ Hackbarth ☑ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC] **Custody Seals Intact:** ☑Yes ☐No

Therometer Used: ☑ Therm Fisher IR 1 ☐ Therm Fisher IR 2 ☐ Therm Fisher IR 4

Type of Ice: (Wet) Blue None Samples on ice: [see COC]

Cooler Temperature: [see COC] Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6-14-11 JZ

Temp must be measured from Temperature blank when present

					Comments:
Temperature Blank Present"?	☐Yes	☑No	☐N/A	1	
Chain of Custody Present:	☑Yes	☐No	☐N/A	2	
Chain of Custody Complete:	☑Yes	☐No	☐N/A	3	
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	4	
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	5	
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	6	
Sufficient Volume:	☑Yes	☐No	☐N/A	7	
Correct Containers Used:	☑Yes	☐No	☐N/A	8	
Filtered vol. Rec. for Diss. tests	☐Yes	☑No	☐N/A	9	
Sample Labels match COC:	☑Yes	☐No	☐N/A	10	
All containers received within manufacture's precautionary and/or expiration dates.	☑Yes	☐No	☐N/A	11	
All containers needing preservation have been checked (except VOA, coliform, & O&G).	☐Yes	☐No	☑N/A	12	
All containers preservation checked found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	13	If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	14	
Trip Blank Present:	☐Yes	☐No	☑N/A	16	
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	17	
Pace Trip Blank Lot # (if purchased): N/A				18	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

ALLC003rev.06, 28Jul2010 - mod

Appendix F

Supporting Documentation

Oregon DEQ Facility Profiler 2.0

[Help] [Close Window]

Facility Summary Report

Return to Site Listing Print Report

Maps

Facility / Site Information for Location 89006

Facility/Site Name:	MEDCO ROAD FORMER ORCHARD	**Latitude:**	42° 23' 2.8"
Address:	T27S, R1W, SEC 6, TL 2500	**Longitude:**	-122° 52' 8.4"
City State Zip:	MEDFORD OR 97502	**Location Accuracy:**	HIGH
		Last Updated:	6/16/2005 2:33:06 PM

Aliases

Medco Road Former Orchard	ECSI

Geographic Features

Township:	T37S-R1W-S6	**Congress Dist:**	2	**Forest Type:**	
County:	JACKSON	**OR Senate Dist:**	02	**Vegetation:**	Urban and industrial
Watershed:	MIDDLE ROGUE	**OR House Dist:**	04	**Agricultural Land:**	N/A
Drinking Water Source:		CITY OF GOLD HILL			

Oregon DEQ Program Information

Environmental Cleanup (ECSI)

Operation ID	Start Date	NFA Date	Permit Type	Permit SubType	Status	Detail Information[1]	EPA Number
4435	04/01/2005		Contaminated Site		Listed on CRL or Inventory	ECSI Site Report	

[1] Linked reports may be unavailable from 9:00pm to 7:00am PST due to system maintenance.
[2] DEQ does not maintain air discharge permit information for Lane County.

More Information on this location

Oregon DEQ Neighborhood Info (by region/county)
See wells in the same Township Range Section from the Oregon Water Resources Department Well logs Application
See county's scanned assessor maps through ORMAP

[DEQ's Privacy Notice] [Contact DEQ] [Application Feedback]

Land Quality

Environmental Cleanup

Environmental Cleanup Site Information (ECSI) Database
Site Summary Report - Details for Site ID 4435, Medco Road Former Orchard

This report shows data entered as of September 9, 2011 at 8:54:59 AM

This report contains site details, organized into the following sections: 1) Site Photos (appears only if the site has photos); 2) General Site Information; 3) Site Characteristics; 4) Substance Contamination Information; 5) Investigative, Remedial and Administrative Actions; and 6) Site Environmental Controls (i.e., institutional or engineering controls; appears only if DEQ has applied one or more such controls to the site). A key to certain acronyms and terms used in the report appears at the bottom of the page.

Go to DEQ's Facility Profiler to see a site map as well is information on what other DEQ programs may be active at this site.

General Site Information

Site ID: 4435	Site Name: Medco Road Former Orchard		CERCLIS No:	
Address:	37S/1W/S6 Medford 97504			
	County: Jackson		Region: Western	
Other location information:				
Investigation Status:	Listed on CRL or Inventory			
	Brownfield Site: No	NPL Site: No	Orphan Site: No	Study Area: No
Property:	Twnshp/Range/Sect: 37S , 1W , 6		Tax Lots: 2500	
	Latitude: 42.3841 deg.	Longitude: -122.869 deg.	Site Size: 59 acres	
Other Site Names:				

Site Characteristics

General Site Description:	The information in this database refers to a 59 acre subsection of tax lot 2500. This does not apply to the other 30 acres.
Site History:	The Medco Road former orchard site is a 49 acre industrial property located immediately northwest of the Medford Airport in Medford, Oregon. The site was used historically a fruit orchard from some time prior to 1939 until the early 1990s. The site is currently a vacant grassy field.

Contamination Information:	The subject property was used as an orchard from sometime prior to 1939 until around 1993, after which it was cleared and sat undeveloped. Historical practices at orchard sites included the use of agricultural chemicals including herbicides, pesticides, petroleum products, and fertilizers. In order to evaluate the potential for environmental impact based on historical use at the site, Agate Engineering, Inc. (Agate) conducted a Phase I and Phase II ESA in May of 2004. As has been detected above RBCs, but below background. Pb has been detected above background, but below appropriate RBCs. Dieldrin is present in soils above residential but below undustrial standards.
Manner and Time of Release:	
Hazardous Substances/Waste Types:	
Pathways:	
Environmental/Health Threats:	Risks at the site may be managed by establishing an Equitable Easement and Servitude with the following general conditions: 1. No installation of wells on the property; 2. No residential use of the property; 3. Soil must be managed in accordance with a soil-management plan (which the site owner will need to develop and provide to DEQ).
Status of Investigative or Remedial Action:	Conditional no further action issued May 2005, based on the implementation of institutional controls.
Data Sources:	• August 20, 1996,No Further Action Letter, LUST 15-92-0098, DEQ • April 28, 2004, Cursory Summary of On-Going Work Regarding the Environmental Site Assessment Jurisdictional Wetlands, and FAA Issues Concerning Property Identified as Taxlot 2500 Located in Section 6 Of Township 37 South, Range 1 West of the Willamette Meridian in Medford, Oregon, Agate Engineering, Inc. • May 14, 2004, Phase I Environmental Site Assessment, Agate Engineering, Inc. • May 26, 2004, Medco/International Road Property: Addendum No. 1 to Phase 1 ESA Report, Agate Engineering, Inc. • May 28, 2004, Environmental Review for Industrial Lands Initiative, DEQ • December 2, 2004, Email from Mike Wolf to Geoff Brown, FW: Medco Site, Options for NFA Status, DEQ • March 9, 2005, Letter Re: Pete Naumes Description of Rogue Valley Cultivation Practices, William R. Bagley • April 11, 2005, Email from Bill Mason to Geoff Brown, Subject: Medco Rd/Airport East TL 2500 Property, DEQ

Substance Contamination Information

Substance	Media Contaminated	Concentration Level	Date Recorded

No information is available

Investigative, Remedial and Administrative Actions

Action	Start Date	Compl.	Resp. Staff	Lead

		Date		Pgm
No Further Action (Conditional)	(Primary Action)	09/22/2005	09/22/2005 Geoffrey Brown	VCS

View Full Report Showing Action History

Site Environmental Controls

Control Description	Begin Date	End Date	Last Reviewed By	Last Review Date
Easement Equitable Servitude	05/31/2005		Geoff Brown, DEQ	05/31/2005

Comments: Risks at the site are managed by an Easement and Equitable Servitude, with the following general conditions: 1. No installation of wells on the property; 2. No residential use of the property; 3. Soil must be managed in accordance with a soil-management plan (which the site owner will need to develop and provide to DEQ).

Key to Certain Acronyms and Terms in this Report:

CERCLIS No.: The U.S. EPA's Hazardous Waste Site identification number, shown only if EPA has been involved at the site.
Region: DEQ divides the state into three regions, Eastern, Northwest, and Western; the regional office shown is responsible for site investigation/cleanup.
NPL Site: Is this site on EPA's National Priority List (i.e., a federal Superfund site)? (Y/N).
Orphan Site: Has DEQ's Orphan Program been active at this site? (Y/N). The Orphan Program uses state funds to clean up high-priority sites where owners and operators responsible for the contamination are absent, or are unable or unwilling to use their own resources for cleanup.
Study Area: Is this site a Study Area? (Y/N). Study Areas are groupings of individual ECSI sites that may be contributing to a larger, area-wide problem. ECSI assigns unique Site ID numbers to both individual sites and to Study Areas.
Pathways: A description of human or environmental resources that site contamination could affect.
Lead Pgm: This column refers to the Cleanup Program affiliation of the DEQ employee responsible for the action shown. SAS or SAP = Site Assessment; VCS or VCP = Voluntary Cleanup; ICP = Independent Cleanup; SRS or SRP = Site Response (enforcement cleanup); ORP = Orphan Program.

You may be able to obtain more information about this site by contacting Geoffrey Brown at the Western regional office or via email at brown.geoff@deq.state.or.us. If this does not work, you may contact Gil Wistar at (503) 229-5512, or via email at wistar.gil@deq.state.or.us or contact the Western regional office.

[print version]

For more information about **ECSI** call Gil Wistar at 503-229-5512 or email.

For more information about **DEQ's Land Quality Division and its programs**, see the contact page.

Oregon Department of Environmental Quality
Headquarters: 811 SW Sixth Ave., Portland, OR 97204-1390
Phone: 503-229-5696 or toll free in Oregon 1-800-452-4011
Oregon Telecommunications Relay Service: 1-800-735-2900 FAX: 503-229-6124

The Oregon Department of Environmental Quality is a regulatory agency authorized to protect Oregon's environment by the State of Oregon and the Environmental Protection Agency.

Oregon
Theodore Kulongoski, Governor

Department of Environmental Quality
Western Region Eugene Office
1102 Lincoln Street, Suite 210
Eugene, OR 97401
(541) 686-7838
FAX (541) 686-7551
TTY (541) 687-5603

STAFF MEMORANDUM
BASIS AND REQUIREMENTS FOR NO FURTHER ACTION DETERMINATION
MEDCO ROAD/AIRPORT EAST INDUSTRIAL LANDS ACT SITE

Site Name: Medco Road/Airport East

ECSI #: Geoff-there is none - enter into ECSI once agreement on this approach has been reached.

Site Location T37S, R1W, Section 6, Tax Lot 2500
Lat.: 42.3841 Long.: -122.869

Prepared by: Geoff Brown, R.G.
DEQ Western Region Project Manager

Reviewed by: Max Rosenberg, R.G.
Western Region Site Assessment Lead Worker

Date: April 19, 2005

INTRODUCTION

The Medco Road/Airport East site is a 49 acre industrial property located immediately northwest of the Medford Airport in Medford, Oregon. The site was used historically a fruit orchard from some time prior to 1939 until the early 1990s. The site is currently a vacant grassy field.

As a requirement of the Industrial Lands Act initiative, the site owners hired Agate Engineering to conduct a Phase I Environmental Site Assessment (ESA) on the site. Soil sampling data during the ESA and follow up work indicate elevated concentrations dieldrin and arsenic are present in on-site soils at concentrations above DEQ screening levels.

In reaching a conclusion that conditions at the site are sufficiently protective of human health and the environment to warrant site closure, the DEQ reviewed this report and other information contained in the file including the following:

- August 20, 1996,*No Further Action Letter, LUST 15-92-0098,* DEQ
- April 28, 2004, *Cursory Summary of On-Going Work Regarding the Environmental Site Assessment Jurisdictional Wetlands, and FAA Issues Concerning Property Identified as Taxlot 2500 Located in Section 6 Of Township 37 South, Range 1 West of the Willamette Meridian in Medford, Oregon,* Agate Engineering, Inc.
- May 14, 2004, Phase I Environmental Site Assessment, Agate Engineering, Inc.

- May 26, 2004, Medco/International Road Property: Addendum No. 1 to Phase 1 ESA Report, Agate Engineering, Inc.
- May 28, 2004, *Environmental Review for Industrial Lands Initiative,* DEQ
- December 2, 2004, *Email from Mike Wolf to Geoff Brown, FW: Medco Site, Options for NFA Status,* DEQ
- March 9, 2005, *Letter Re: Pete Naumes Description of Rogue Valley Cultivation Practices,* William R. Bagley
- April 11, 2005, *Email from Bill Mason to Geoff Brown, Subject: Medco Rd/Airport East TL 2500 Property,* DEQ

BACKGROUND AND ENVIRONMENTAL CONCERNS

The subject property was used as an orchard from sometime prior to 1939 until around 1993, after which it was cleared and sat undeveloped. Historical practices at orchard sites included the use of agricultural chemicals including herbicides, pesticides, petroleum products, and fertilizers. In order to evaluate the potential for environmental impact based on historical use at the site, Agate Engineering, Inc. (Agate) conducted a Phase I and Phase II ESA in May of 2004.

Issues associated with the site include:

Underground Storage Tank

A leaking underground storage tank was removed from the site in 1992. No impact to groundwater was noted with respect to the UST release. On-site soil treatment was successfully conducted under a DEQ permit. After the cleanup and soil treatment was complete, DEQ issued a Letter of No Further Action for the UST release in 1996.

Surface Soil Sampling

In May 2004 Agate collected six shallow composite samples from the site and had them analyzed for lead, arsenic, organochlorine pesticides, and chlorinatd herbicides. The samples were collected from surficial soils at a depth of around six inches. Lead, arsenic, Dieldrin, DDT, and DDT breakdown products were detected in all soil samples.

Lead

Lead was present in all soil samples at concentrations below EPA Region 9 Preliminary Remediation Goals (PRG)s. DEQ screens samples against the PRGs to estimate whether contaminants detected in a sample are likely to pose a risk to people. The residential PRG for lead is 400 mg/kg. For industrial properties it is 750 mg/kg. The highest lead concentration detected at the site was 291 mg/kg. The concentrations are below the PRGs and DEQ has concluded lead does not pose a risk to future site workers or residents.

Arsenic

The PRG for arsenic in soil is 0.39 mg/kg for residential receptors and 1.6 mg/kg for occupational/industrial receptors. Arsenic was detected in every composite sample collected at the site at concentrations ranging from 2 to 7 mg/kg. The default background concentration for naturally occurring arsenic in Oregon soil is 7 mg/kg. No samples from the site exceeded the

default background concentration for arsenic. Site specific background concentrations are always preferred over default background values, however the DEQ can use default background values during the screening phase of an investigation. The use of default background values is justified in this case because the site is a former orchard surrounded by former orchards, and collecting background samples from similar areas outside of the same types of agricultural influences as the site would be problematic.

Dieldrin

Dieldrin was present in all six composite samples at concentrations in excess of residential PRGs but below industrial PRGs. DEQ considers conditions at the site protective of industrial use. However, the presence of soils exceeding residential PRGs precludes future residential use of the site and will require a deed restriction preventing residential use. The deed restriction will also require proper handling and disposal of dieldrin-containing soils during site development activities.

The full horizontal and vertical extent of Dieldrin impact to soil is not known. However, since dieldrin was detected in all samples, it is likely that Dieldrin is present on all portions of the site. The relatively low and consistent concentrations of dieldrin detected in site soils indicate it is the result of pesticide application, not a spill or improper disposal. Since the site is surrounded by other former orchards that may have used similar pesticides, delineation of the extent of dieldrin beyond the property boundaries is considered by DEQ to be both impractical and unnecessary to assure the safe industrial development of the Medco Road/Airport East site.

Since chemical detected in groundwater exceed DEQ screening levels for drinking water near the north end of the property, potential drinking water impact was a concern at the site. Therefore, DEQ conducted an analysis of the potential fate and transport of the contaminants. The conclusion of the analysis is that off-site impact to shallow-groundwater users is not reasonably likely for the following reasons:

- Bedrock is very shallow, from 13-17 feet below ground surface, limiting the potential for vertical migration of contaminants;
- Water supply wells in the section (none closer than 2,500 feet from the site) Section 6 are completed in bedrock at depths ranging from 110-300 feet, with the top of shallowest screened interval at 50 feet below ground surface;
- "First water" was significantly deeper than corresponding static water levels on all water well reports for nearby wells, confirming that the bedrock aquifer(s) are confined and are therefore less vulnerable to surficial contaminants;
- Shallow soils at the site are classified as "Coleman Loam" (Jackson County Soil Survey), a low permeability soil consisting primarily of clay loam, which limits the potential for significan off-site migration of contaminants in any perched groundwater zones near the site ; and
- The primary contaminants of concern are heavy PAHs, which have a low water solubility, are strongly sorbed to soil, and are not likely to travel far in higher-clay-content soils.

The site specific soil and aquifer characteristics limit the maximum potential extent of shallow groundwater to the area immediately north of the site, certainly not extending to areas in which groundwater wells are present or likely to be constructed in the future. Therefore DEQ has determined that PAHs do not pose a risk to nearby residents via groundwater.

Ecological Risks
The site, a former orchard, consists of filled and disturbed soils with no significant ecological habitat.

CONCLUSIONS AND RECOMMENDATIONS

The site is suitable for industrial development provided potential risks from dieldrin are managed by establishing a DEQ-approved Easement and Equitable Servitude (EE&S) with the following general conditions:

1. No installation of wells on the property;
2. No residential use of the property;
3. Soil, including any soil taken off the site, is managed in accordance with a DEQ-approved soil management plan (which the site owner will need to develop and provide to DEQ prior to development).

Placing an EE&S on the property deed, and abiding by the conditions, will meet the standards set forth under 340-122-040 and will be protective of present and future public health, safety, welfare, and the environment.

DEQ will provide public notification of the proposed institutional control in the Secretary of State's Bulletin and the Medford Mail Tribune. The notification will summarize the proposed institutional control and allow the public a 30 day public comment period.

Upon closure of the public comment period, after any substantive public comments have been addressed, and the Equitable Easement and Servitude has been recorded, DEQ will issue a Letter of No Further Action (NFA) for the site.

DEQ will update the ECSI database to reflect the changes in site status.

Enc.

Figure 1 Site Location
Figure 2 Site Plan
April 11, 2005, *Email from Bill Mason to Geoff Brown, Subject: Medco Rd/Airport East TL 2500 Property,* DEQ

		Date		Pgm
No Further Action (Conditional) (Primary Action)		09/22/2005 09/22/2005	Geoffrey Brown	VCS

View Full Report Showing Action History

Site Environmental Controls

Control Description	Begin Date	End Date	Last Reviewed By	Last Review Date
Easement Equitable Servitude	05/31/2005		Geoff Brown, DEQ	05/31/2005

Comments: Risks at the site are managed by an Easement and Equitable Servitude, with the following general conditions: 1. No installation of wells on the property; 2. No residential use of the property; 3. Soil must be managed in accordance with a soil-management plan (which the site owner will need to develop and provide to DEQ).

Key to Certain Acronyms and Terms in this Report:

CERCLIS No.: The U.S. EPA's Hazardous Waste Site identification number, shown only if EPA has been involved at the site.
Region: DEQ divides the state into three regions, Eastern, Northwest, and Western; the regional office shown is responsible for site investigation/cleanup.
NPL Site: Is this site on EPA's National Priority List (i.e., a federal Superfund site)? (Y/N).
Orphan Site: Has DEQ's Orphan Program been active at this site? (Y/N). The Orphan Program uses state funds to clean up high-priority sites where owners and operators responsible for the contamination are absent, or are unable or unwilling to use their own resources for cleanup.
Study Area: Is this site a Study Area? (Y/N). Study Areas are groupings of individual ECSI sites that may be contributing to a larger, area-wide problem. ECSI assigns unique Site ID numbers to both individual sites and to Study Areas.
Pathways: A description of human or environmental resources that site contamination could affect.
Lead Pgm: This column refers to the Cleanup Program affiliation of the DEQ employee responsible for the action shown. SAS or SAP = Site Assessment; VCS or VCP = Voluntary Cleanup; ICP = Independent Cleanup; SRS or SRP = Site Response (enforcement cleanup); ORP = Orphan Program.

You may be able to obtain more information about this site by contacting Geoffrey Brown at the Western regional office or via email at brown.geoff@deq.state.or.us. If this does not work, you may contact Gil Wistar at (503) 229-5512, or via email at wistar.gil@deq.state.or.us or contact the Western regional office.

[print version]

For more information about **ECSI** call Gil Wistar at 503-229-5512 or email.

For more information about **DEQ's Land Quality Division and its programs**, see the contact page.

Oregon Department of Environmental Quality
Headquarters: 811 SW Sixth Ave., Portland, OR 97204-1390
Phone: 503-229-5696 or toll free in Oregon 1-800-452-4011
Oregon Telecommunications Relay Service: 1-800-735-2900 FAX: 503-229-6124