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Global Specialists in the Environment

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June 22, 2011

Earl Liverman, On-Scene Coordinator  
United States Environmental Protection Agency  
1910 Northwest Blvd, Suite 208  
Coeur D'Alene, Idaho 83814

Re: Contract Number EP-S7-06-02, Technical Direction Document Number 10-09-0008  
2010 Removal Action Report, Orofino Asbestos Site, Orofino, Clearwater County, Idaho

Dear Mr. Liverman:

Enclosed please find the final 2010 removal action report for the Orofino Asbestos Site in Orofino, Clearwater County, Idaho. If you have any questions regarding this submittal, please call me at (206) 920-1739.

Sincerely,

ECOLOGY AND ENVIRONMENT, INC.

Steven G. Hall  
START-3 Project Leader

cc: Dan Heister, OSC, EPA Region 10, Portland, Oregon

## 2010 REMOVAL ACTION REPORT

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**Orofino Asbestos Site**  
**Orofino, Clearwater County, Idaho**  
**TDD: 10-09-0008**



Prepared for:

U.S. Environmental Protection Agency, Region 10  
1910 Northwest Boulevard, Suite 208  
Coeur d'Alene, Idaho 83814

Prepared by:

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720 Third Avenue, Suite 1700  
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June 22, 2011

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## Table of Contents

<b>Executive Summary .....</b>	<b>xi</b>
<b>1 Introduction .....</b>	<b>1-1</b>
<b>2 Site Description and Background.....</b>	<b>2-1</b>
2.1 Site Location and Layout .....	2-1
2.2 Surrounding Land Uses .....	2-2
2.3 Site History, Operations, and Ownership.....	2-2
2.4 Regulatory and Enforcement History.....	2-2
<b>3 Removal Action Description .....</b>	<b>3-1</b>
3.1 Removal Action Objectives .....	3-1
3.2 Changes to the Removal Action Scope during Cleanup .....	3-1
<b>4 Project Organization, Cost, and Schedule.....</b>	<b>4-1</b>
4.1 Key Organizations and Roles .....	4-1
4.2 Project Costs.....	4-1
4.3 Final Project Schedule.....	4-1
<b>5 Removal Activities .....</b>	<b>5-1</b>
5.1 General Cleanup Activities .....	5-1
5.1.1 Mobilization .....	5-1
5.1.2 Impacted Property Identification and Access.....	5-1
5.1.3 Work Zones .....	5-1
5.1.4 Excavation.....	5-2
5.1.5 Best Management Practices .....	5-2
5.1.6 Air Monitoring .....	5-2
5.1.7 Post-Excavation Confirmation Sampling.....	5-2
5.1.8 Backfill, Regrading, and Restoration .....	5-3
5.1.9 Right-of-Way Survey and ACP Recovery .....	5-3
5.1.10 Off-Site Disposal.....	5-3
5.2 Property-Specific Information.....	5-3
<b>6 Post-Removal Site Controls .....</b>	<b>6-1</b>
<b>7 Waste Management, Transportation, and Disposal Activities .....</b>	<b>7-1</b>
<b>8 Sampling and Monitoring Activities .....</b>	<b>8-1</b>
8.1 Bulk Samples.....	8-1
8.2 Air Samples .....	8-1

## Table of Contents (cont.)

Section	Page
8.2.1 Personal Samples by PCM .....	8-2
8.2.2 Perimeter Samples by PCM and TEM .....	8-2
8.3 Dust Monitoring .....	8-3
8.4 Soil Samples .....	8-3
8.5 MicroVac/Dust Samples .....	8-4
<b>9 Quality Assurance/Quality Control .....</b>	<b>9-1</b>
9.1 Satisfaction of Data Quality Objectives .....	9-1
9.2 QA/QC Samples .....	9-1
9.3 Project-Specific Data Quality Objectives .....	9-1
9.3.1 Precision .....	9-2
9.3.2 Accuracy .....	9-2
9.3.3 Completeness .....	9-2
9.3.4 Representativeness .....	9-2
9.3.5 Comparability .....	9-2
9.4 Laboratory QA/QC Parameters .....	9-2
9.4.1 Field Blanks .....	9-2
9.5 QA/QC Summary .....	9-2
<b>10 Community Relations .....</b>	<b>10-1</b>
<b>11 Health and Safety .....</b>	<b>11-1</b>
<b>12 Difficulties Encountered/ Recommendations .....</b>	<b>12-1</b>
<b>13 Summary and Conclusions .....</b>	<b>13-1</b>
<b>14 References .....</b>	<b>14-1</b>
<b>A Photographs .....</b>	<b>A-1</b>
<b>B Individual Property Figures .....</b>	<b>B-1</b>
<b>C Individual Property Reports .....</b>	<b>C-1</b>
<b>D Waste Disposal Records .....</b>	<b>D-1</b>
<b>E Analytical Data Reports .....</b>	<b>E-1</b>
<b>F Local News Articles .....</b>	<b>F-1</b>

## List of Tables

<b>Table</b>		<b>Page</b>
2-1	2010 Removal Action Properties .....	2-3
4-1	Project Costs .....	4-1
4-2	Project Schedule.....	4-2
5-1	Summary of Work Performed, 2010 Removal Action .....	5-5
8-1	Summary of Samples .....	8-5
8-2	Bulk Material Sample Results .....	8-7
8-3	Personal Air Sample Results – Phase Contrast Microscopy.....	8-8
8-4	Perimeter Air Sample Results – Phase Contrast Microscopy .....	8-9
8-5	Perimeter Air Sample Results – Transmission Electron Microscopy.....	8-11
8-6	Soil Sample Results .....	8-12
8-7	MicroVac/Dust Sample Results.....	8-13

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## List of Figures

<b>Figure</b>		<b>Page</b>
2-1	Site Location Map, Beginning of 2010 Removal Action .....	2-4
2-2	Property Status at Conclusion of 2010 Removal Action .....	2-5
2-3	Riverside Water and Sewer District Phase II Water System Improvements, 2008.....	2-7
2-4	Riverside Water and Sewer District Phase III Water System Improvements, 2009.....	2-9
5-1	Site Layout at the Beginning of the 2010 Removal Action .....	5-6

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## List of Abbreviations and Acronyms

<b>Abbreviation</b>	<b>Definition</b>
μm	Micrometer
%	Percent
%R	percent recovery
ACM	asbestos-containing material
ACP	asbestos-cement pipe
AHERA	Asbestos Hazard Emergency Response Act
ASOAC	Administrative Settlement Agreement and Order on Consent
ASTM	American Society for Testing and Materials
BMPs	best management practices
BS	blank spike
CARB	California Air Resources Board
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
District	Riverside Water and Sewer District
DQOs	data quality objectives
E & E	Ecology and Environment, Inc.
EPA	United States Environmental Protection Agency
EQM	Environmental Quality Management, Inc.
ERRS	Emergency and Rapid Response Services
f/cc	fibers per cubic centimeter
Forensic	Forensic Analytical Laboratories, Inc.
H&SP	health and safety plan
HEPA	high efficiency particulate air
ISO	International Organization of Standardization
L/min	liters per minute
MCE	mixed-cellulose ester
McGillivray	McGillivray Environmental
mg/m <sup>3</sup>	milligrams per cubic meter

## List of Abbreviations and Acronyms (cont.)

<b>Abbreviation</b>	<b>Definition</b>
MicroVac	Microvaccum
mm	Millimeter
MS	matrix spike
MSD	matrix spike duplicate
NESHAPs	National Emissions Standards for Hazardous Air Pollutants
NIOSH	National Institute for Occupational Safety and Health
OSC	On-Scene Coordinator
OSHA	Occupational Safety and Health Administration
Owyhee	Owyhee Construction, Inc.
PCM	phase contrast microscopy
PEL	permissible exposure limit
PLM	polarized light microscopy
PPE	personal protective equipment
PRSC	post-removal site controls
QA	quality assurance
QC	quality control
RA	removal action
RP	responsible party
RPD	relative percent difference
RSE	removal site evaluation
RV	recreation vehicle
s/cc	structures per cubic centimeter
SARA	Superfund Amendments and Reauthorization Act
SSSP	site-specific sampling plan
START	Superfund Technical Assessment and Response Team
TDD	Technical Direction Document
TEM	transmission electron microscopy

# Executive Summary

In 2010, the United States Environmental Protection Agency (EPA) performed a removal action (RA) at the Orofino Asbestos Site in Orofino, Clearwater County, Idaho. The RA was performed to mitigate human health risks associated with asbestos-contaminated soil placed as fill material at multiple locations in the City of Orofino or immediately outside the City limits in Clearwater County.

The asbestos-contaminated soil was reportedly placed on the properties during water line improvement projects performed for the Riverside Water and Sewer District (District) in 2008 and 2009. The scope of work for this improvement project was to replace existing water pipes constructed with asbestos and cement (asbestos-cement pipe [ACP]) with new water pipes. During the project, excavated soil containing pieces of ACP was given to several property owners in the area as fill material.

The RA was performed following two EPA investigations of the Site. In June 2010, EPA performed a Site walk at a vacant lot located at 12796 Highway 12. EPA observed many scattered pieces of suspected ACP laying on the ground. The ACP pieces were weathered and had crumbled edges, with potential asbestos fibers visible at the edges. EPA collected three samples of ACP from the property, and laboratory testing results indicated that the pieces contained 8-9 percent (%) chrysotile asbestos, confirming that the ACP was an asbestos-containing material (ACM).

In August 2010, EPA returned to the Site to perform a removal site evaluation (RSE) at six additional locations that reportedly received the asbestos-contaminated soil as fill material. Pieces of ACP were observed at four locations, and a piece of transite siding (cement-asbestos board) siding was observed at a fifth location. EPA collected samples of the suspected ACM and surface soil from impacted areas. Laboratory testing results confirmed that the ACP and transite siding contained greater than 1% asbestos and were ACM. The results also indicated that soil from two of the locations contained detectable amounts of asbestos fibers (0.25% and 0.75% chrysotile).

From October 13 through November 3, 2010, EPA performed a removal action (RA) at the locations that had received asbestos-contaminated soil as fill material. The RA was performed to address the human health hazards to residents and the community from the uncontrolled and friable ACP on the various properties. The RA was performed by the EPA Region 10 Emergency and Rapid Response Services (ERRS) contractor, and the Superfund Technical Assessment and Response Team (START) contractor was also on Site to perform sampling, documentation, and removal support activities.

The RA was performed by excavating the asbestos-contaminated soil, and an additional 6 inches of the native soil underneath, for proper off-Site disposal as asbestos waste. During excavation, any large sections (e.g., 6 inches in length or greater) of ACP that were encountered were segregated for special handling and disposal as ACM. Following excavation, the asbestos-contaminated soil was consolidated at one of the affected properties on Highway 12, where the asbestos-contaminated soil was subsequently loaded into long-distance trucks and trailer “pups”

for off-Site disposal. The asbestos-contaminated soil (2,494 tons) and segregated sections of ACP (11.5 cubic yards) were disposed of at the Graham Road landfill in Medical Lake, Washington.

During removal activities, ERRS used dust control best management practices (BMPs), and START monitored the perimeter of work zones for dust and airborne asbestos fibers to confirm that the dust suppression was working. Following excavation of the asbestos-contaminated soil, confirmation soil samples were collected and analyzed to confirm that the asbestos-contaminated soil had been removed.

During the RA, EPA continued to learn of additional properties that had received the asbestos-contaminated soil as fill material. By the end of the 2010 RA, EPA had identified a total of 22 properties, including the original seven, that had received asbestos-contaminated soil requiring cleanup. EPA also surveyed the public rights-of-way of the streets included in the District water line improvement projects and removed any observed pieces of ACP for proper off-Site disposal.

Because of access and schedule issues, EPA was not able to complete the removal of asbestos-contaminated soil from all 22 properties that had been identified. EPA completed work at 12 properties during the 2010 RA, and the remaining 10 properties were postponed until cleanup activities could be resumed in 2011. For those properties that could not be completed in 2010, EPA assessed the condition of the asbestos-contaminated soil and placed an interim cover of gravel where warranted.

# 1 Introduction

In May 2010, the United States Environmental Protection Agency (EPA) received a complaint regarding the placement of excavated soil containing asbestos-cement pipe (ACP) at a vacant lot in the City of Orofino, Clearwater County, Idaho. The complainant alleged that in 2009, the Riverside Water and Sewer District (District) in the City of Orofino awarded a contract to Owyhee Construction, Inc. (Owyhee) for the construction of water line improvements for the District, and that Owyhee placed excavated soil containing ACP as fill material on a vacant lot in the City.

In response to the complaint, EPA On-Scene Coordinator (OSC) Earl Liverman met with the complainant at the vacant lot on June 25, 2010. OSC Liverman observed many scattered pieces of suspected ACP laying on the ground. The sizes ranged from 2 to 3 inches in length and width to longer than 6 inches and wider than 4 inches. All ACP pieces appeared to be weathered with crumbled edges and potential asbestos fibers visible at the edges. Three samples collected on June 29, 2010, were analyzed using Polarized Light Microscopy (PLM) to determine the type and quantity of asbestos. The data showed asbestos concentrations of 8 percent (%), 9%, and 9% chrysotile mineral fibers (E & E 2011b). Because the ACP contained more than 1% asbestos, they met the definition of asbestos-containing material (ACM) and were therefore subject to federal regulations for handling and disposal.

After the June 2010 Site visit, EPA learned that asbestos-contaminated soil may have been placed as fill material at other locations in and around the City of Orofino. In August 2010, EPA and its Superfund Technical Assessment and Response Team (START) contractor performed a removal site evaluation (RSE) at the Site to determine whether asbestos-contaminated soil was placed as fill material at these other locations. EPA visited six additional locations where excavated soil suspected to contain ACP had been placed as fill material. At four locations, EPA observed broken pieces of suspected ACP lying on the ground surface that were similar to the ACP observed during the June 2010 Site visit. The sizes ranged from small fragments to 2- to 3-foot sections of ACP. All observed pieces of ACP were weathered and the edges were crumbled. At a fifth location, EPA did not observe ACP on the ground where the fill was placed, and at a sixth location, EPA observed several small pieces of suspected transite siding (cement-asbestos board) (E & E 2011a).

START collected four bulk samples of the suspected ACP, one bulk sample of the suspected transite siding, and four surface soil samples from the five locations where the suspected ACM was observed. The samples were submitted to an off-Site analytical laboratory for PLM and transmission electron microscopy (TEM) analyses to determine the type and quantity of asbestos. The data for the four ACP samples indicated chrysotile asbestos concentrations of 7% and 20% by PLM and 16.68% and 16.82% by TEM. The transite siding sample contained 3% chrysotile as determined by PLM. For the four soil samples, the PLM results indicated non-detect for two samples and 0.25% and 0.75% chrysotile for the other two samples (E & E 2011a).

EPA was concerned that, with time and exposure to weather and damaging mechanical forces, the ACP and transite siding could continue to become friable thus releasing asbestos fibers to the environment. In October 2010, EPA began a removal action (RA) at the various locations that

had received asbestos-contaminated soil as fill material. EPA performed the RA to address the human health hazards to residents and the community from the uncontrolled and friable ACP on the multiple properties.

EPA performed the RA under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA). EPA tasked Ecology and Environment, Inc. (E & E), under START-3 contract number EP-S7-06-02, Technical Direction Document (TDD) number 10-09-0008, to provide technical, sampling, and documentation support for the RA.

This report is organized into the following sections: Introduction (Section 1); Site Description and Background (Section 2); Removal Action Description (Section 3); Project Organization, Cost, and Schedule (Section 4); Removal Activities (Section 5); Post-Removal Site Controls (Section 6); Waste Management, Transportation, and Disposal Activities (Section 7); Sampling and Monitoring Activities (Section 8); Quality Assurance/Quality Control (Section 9); Community Relations (Section 10); Health and Safety (Section 11); Difficulties Encountered/Recommendations (Section 12); Summary and Conclusions (Section 13); and References (Section 14). Photographs taken throughout the RA are presented in Appendix A.

## 2 Site Description and Background

### 2.1 Site Location and Layout

<b>Site Name</b>	Orofino Asbestos Site
<b>Owner</b>	Multiple
<b>SSID #</b>	10JN
<b>CERCLIS #</b>	IDN001002885
<b>Location</b>	Orofino, Clearwater County, Idaho
<b>Latitude</b>	46° 28.41' 11" N
<b>Longitude</b>	116° 15.10' 57" W

The Orofino Asbestos Site includes multiple properties located in around the City of Orofino (Figure 2-1). Orofino is a rural community located in the North Central Region of Idaho along Orofino Creek and the Clearwater River. The population is approximately 3,300 and the City is the county seat for Clearwater County.

Prior to beginning the RA, EPA was aware of seven properties that had received asbestos-contaminated soil as fill material. These properties included the property at 12976 Highway 12 that EPA initially investigated in June 2010. The responsible party (i.e., the District contractor who placed the asbestos-contaminated soil on the property) placed a layer of clean gravel over the asbestos-contaminated soil as an interim cover until future cleanup work can be performed. During the August 2010 RSE, EPA identified six additional properties that received asbestos-contaminated soil as fill material, and these six properties were scheduled to be completed during the 2010 RA. Figure 2-1 includes the locations of the seven initial properties identified before the 2010 RA. Information about these properties, including the address and RA status, is included in Table 2-1.

While performing the 2010 RA, EPA learned of and investigated additional properties that had received asbestos-contaminated soil as fill material. The properties that received asbestos-contaminated soil were primarily residential, while other property types included church properties, vacant lots (including one adjacent to a recreation vehicle [RV] park), and the Clearwater County Transfer Station. By the end of the RA, EPA had identified a total of 22 properties, including the original seven, with asbestos-contaminated soil that required cleanup.

Additionally, EPA recovered bulk ACP from another property that had been collected by a community resident. EPA also collected dust samples from two houses that did not report receiving asbestos-contaminated soil, although the property owners reported observing a large quantity of dust from excavation associated with the water line improvement project performed in the right-of-way near their houses.

Table 2-1 lists the 2010 RA properties and indicates the status of each. The locations of these properties are shown on Figure 2-2.

## **2.2 Surrounding Land Uses**

The properties included in the RA are located in mixed neighborhoods composed of commercial, residential, and religious properties. There are no known vulnerable or sensitive populations, habitats, or natural resources or potential historical landmarks and/or structures with historical significance identified where excavated soil containing ACP and transite siding was placed.

## **2.3 Site History, Operations, and Ownership**

The District recently began a multi-year and multi-phase project to upgrade its water storage and water line system. Phase I involved the construction of a new water tower to replace the old water tower at the intersection of Jerome and Diagonal Roads (Figures 2-3 and 2-4). Phase II of the project was completed in 2008 and involved the upgrade of water lines along Jerome Avenue, 123<sup>rd</sup> Street, and Kent Avenue (Figure 2-3). Phase III of the project was completed in 2009 and involved the upgrade of water lines on several other neighborhood streets, including Indio Street, Hartford Avenue, Highway 12, and several cross streets (Figure 2-4).

The contract document for the 2009 phase noted that "Category II, Non-Friable Transite (Asbestos-Cement)" pipe was located on the project, and that the pipe was to be buried in the trench (District 2008). While some of the ACP was buried in the trench as directed, some of the asbestos-contaminated soil was apparently placed as fill material at various locations throughout the community.

## **2.4 Regulatory and Enforcement History**

There are no known regulatory or enforcement actions at the Site prior to EPA's 2010 investigations, which are summarized below.

In June 2010, EPA performed a Site walk at the 12976 Highway 12 property, which is a vacant commercial lot. The activities and results of this Site visit are described in a separate Trip Report (E & E 2011b), and a summary is included in Section 1. Following the Site visit, EPA recommended that the property owner place a gravel cap on the asbestos-contaminated soil until it could be cleaned up.

In August 2010, EPA entered into an Administrative Settlement Agreement and Order on Consent (ASAO) with the property owner and the District contractor (i.e., responsible party) for an interim responsible party-led removal action to control for fugitive dust, construct a temporary fence around the area where asbestos-contaminated soil was placed as fill, and install appropriate signage on the fencing to discourage trespass. This work was completed by the responsible party the week of 30 August 2010 (Liverman 2010).

In August 2010, EPA performed an RSE to investigate six additional properties that received asbestos-contaminated soil as fill material. The results of the RSE are presented in a separate RSE report (E & E 2011a), and a summary is provided in Section 1.

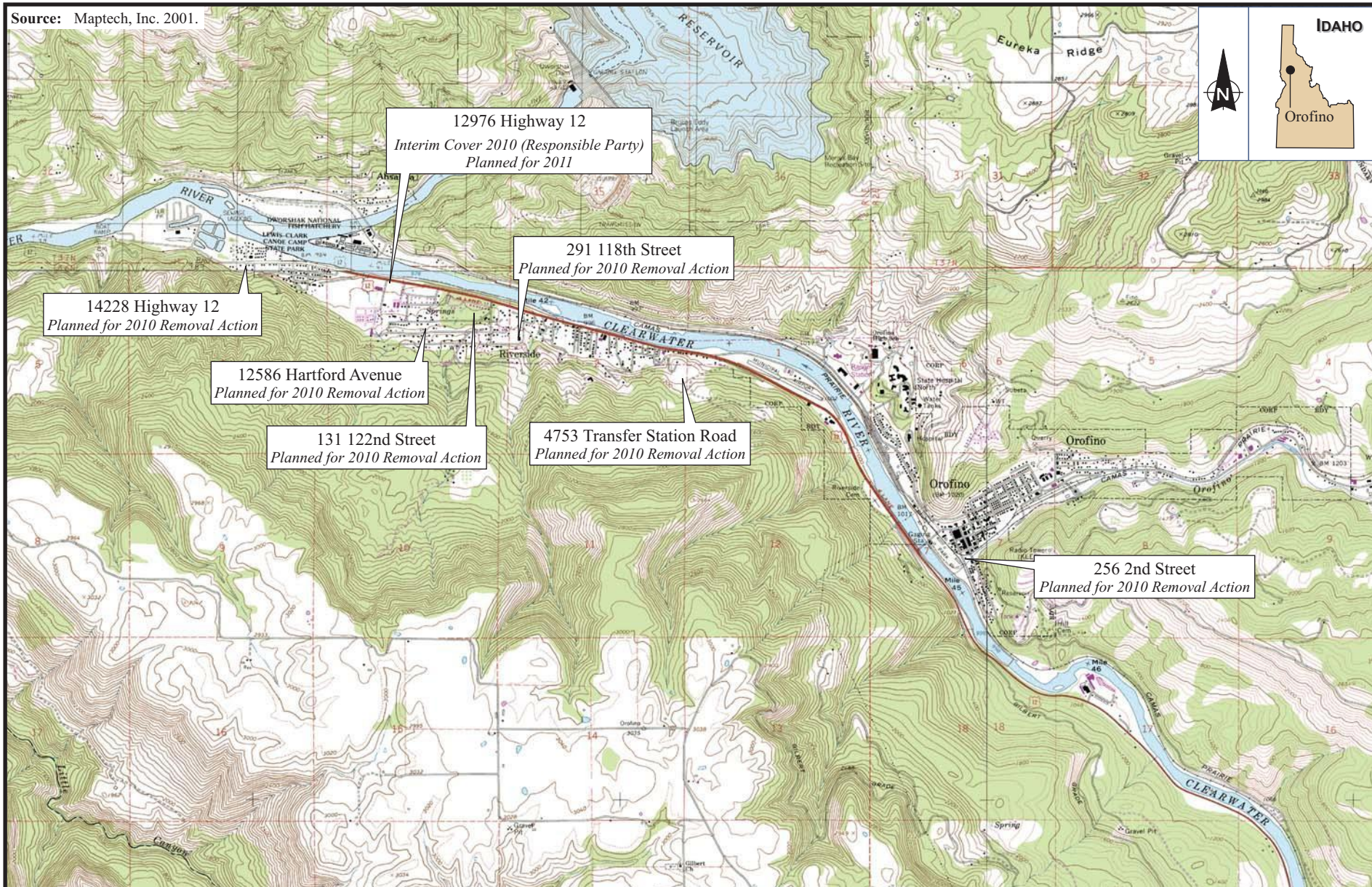
<b>Table 2-1</b>  <b>2010 Removal Action Properties</b> <b>Orofino Asbestos Site</b> <b>Orofino, Idaho</b>		
Property Address		
	2010	2011
<b>Original Action Memorandum Properties (7/22/2010 and 9/30/2010)</b>		
12976 Highway 12 (7/22/2010)	Interim Cover (Responsible Party)	Planned for 2011
12586 Hartford Avenue (9/30/2010)	Asbestos-Contaminated Soil Removed	None Planned
14228 Highway 12 (9/30/2010)	Asbestos-Contaminated Soil Removed	None Planned
256 2nd Street (9/30/2010)	Asbestos-Contaminated Soil Removed	None Planned
131 122nd Street (9/30/2010)	Asbestos-Contaminated Soil Removed	None Planned
291 118th Street (9/30/2010)	Interim Cover (EPA)	Planned for 2011
4753 Transfer Station Road (9/30/2010)	Interim Cover (EPA)	Planned for 2011
<b>Properties Discovered During Fall 2010 Removal Action</b>		
12140 Hartford Avenue	Interim Cover (EPA)	Planned for 2011
12170 Hartford Avenue	None	Planned for 2011
12453 Hartford Avenue	None	Planned for 2011
12517 Hartford Avenue	Interim Cover (EPA)	Planned for 2011
12611 Hartford Avenue	Asbestos-Contaminated Soil Removed	None Planned
12719 Hartford Avenue	None	Planned for 2011
12742 Hartford Avenue	None	Planned for 2011
12154 Indio Avenue	Asbestos-Contaminated Soil Removed	None Planned
12252 Indio Avenue	Asbestos-Contaminated Soil Removed	None Planned
12253 Indio Avenue	Asbestos-Contaminated Soil Removed	None Planned
12474 Indio Avenue	Asbestos-Contaminated Soil Removed	None Planned
12742 Jerome Avenue	Asbestos-Contaminated Soil Removed	None Planned
129 119th Avenue	Asbestos-Contaminated Soil Removed	None Planned
130 122nd Street	None	Planned for 2011
10820 Highway 12	Asbestos-Contaminated Soil Removed	None Planned
<b>ACP Sample Only</b>		
Address Not Available	None	None Planned
<b>Dust Sampling</b>		
12359 Hartford Avenue	Dust Sampling	None Planned
12451 Hartford Avenue	Dust Sampling	None Planned

Key:

ACP = asbestos-cement pipe

EPA = United States Environmental Protection Agency

Source: Maptech, Inc. 2001.



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# OROFINO ASBESTOS SITE Orofino, Idaho

0 2000 4000  
Approximate Scale in Feet

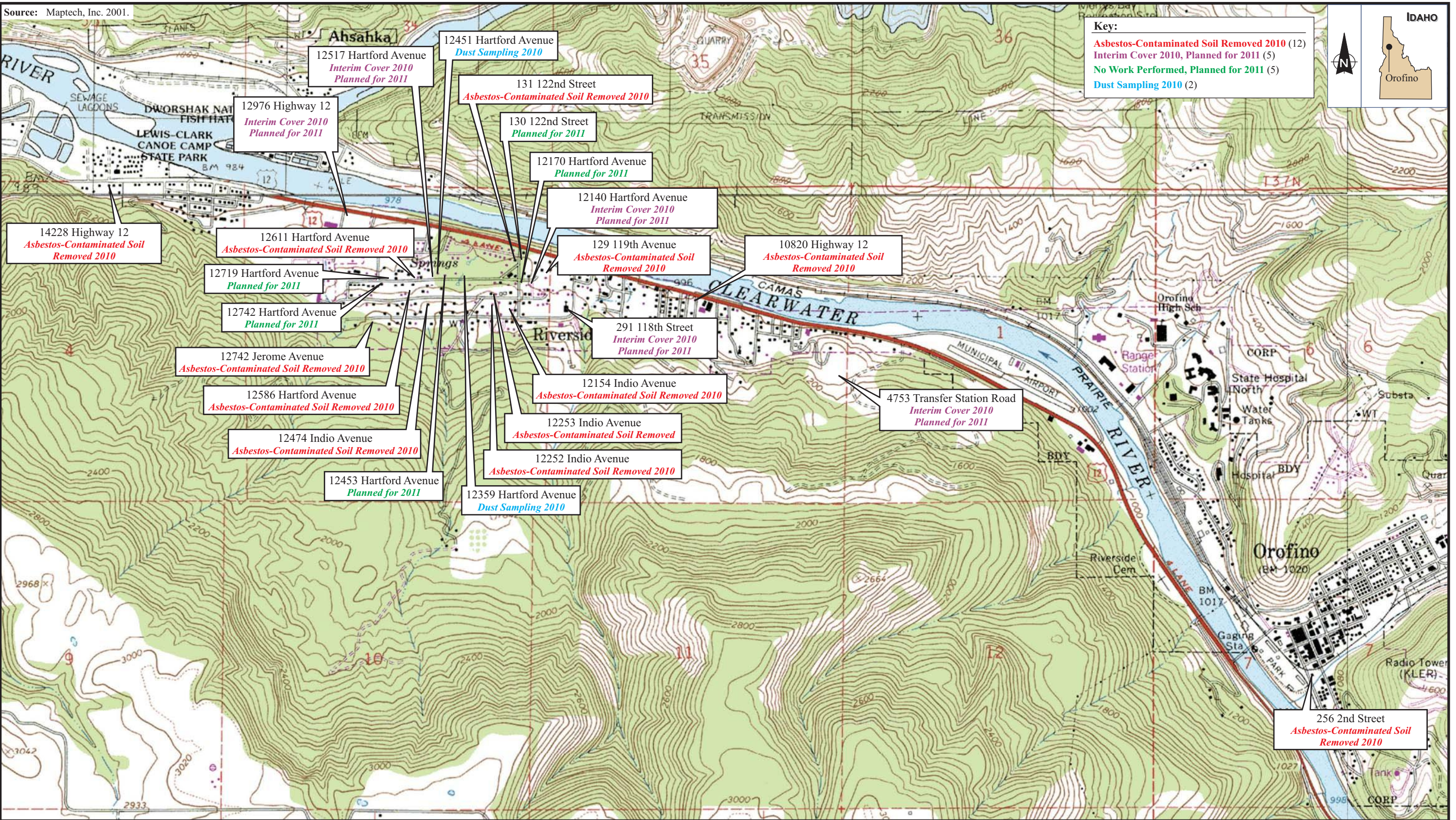
Figure 2-1  
SITE LOCATION MAP  
BEGINNING OF 2010 REMOVAL ACTION

Date:  
4/22/11

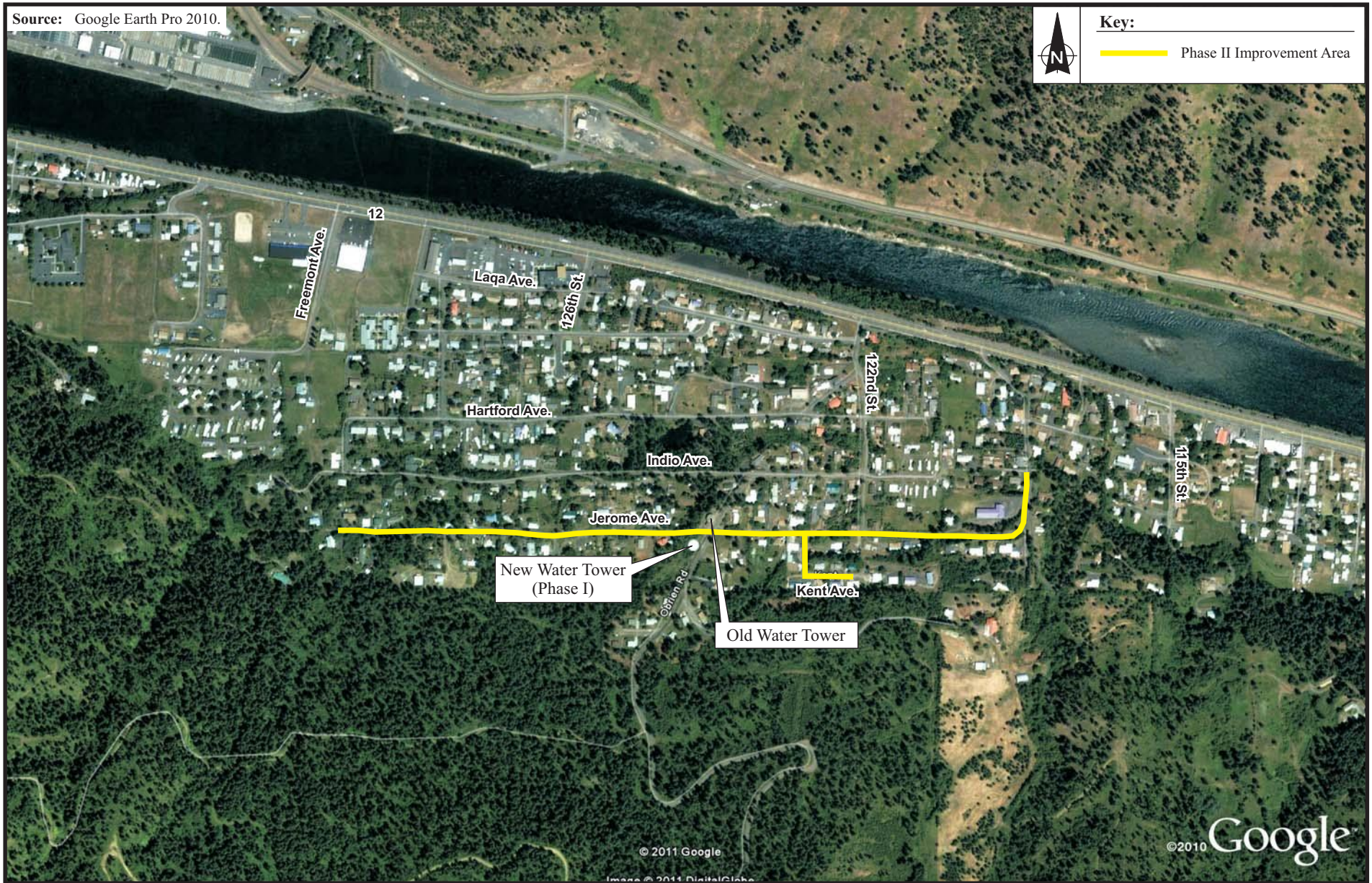
Drawn by:  
AES



10:START-3\10080001\fig 2-1

Source: Maptech, Inc. 2001.



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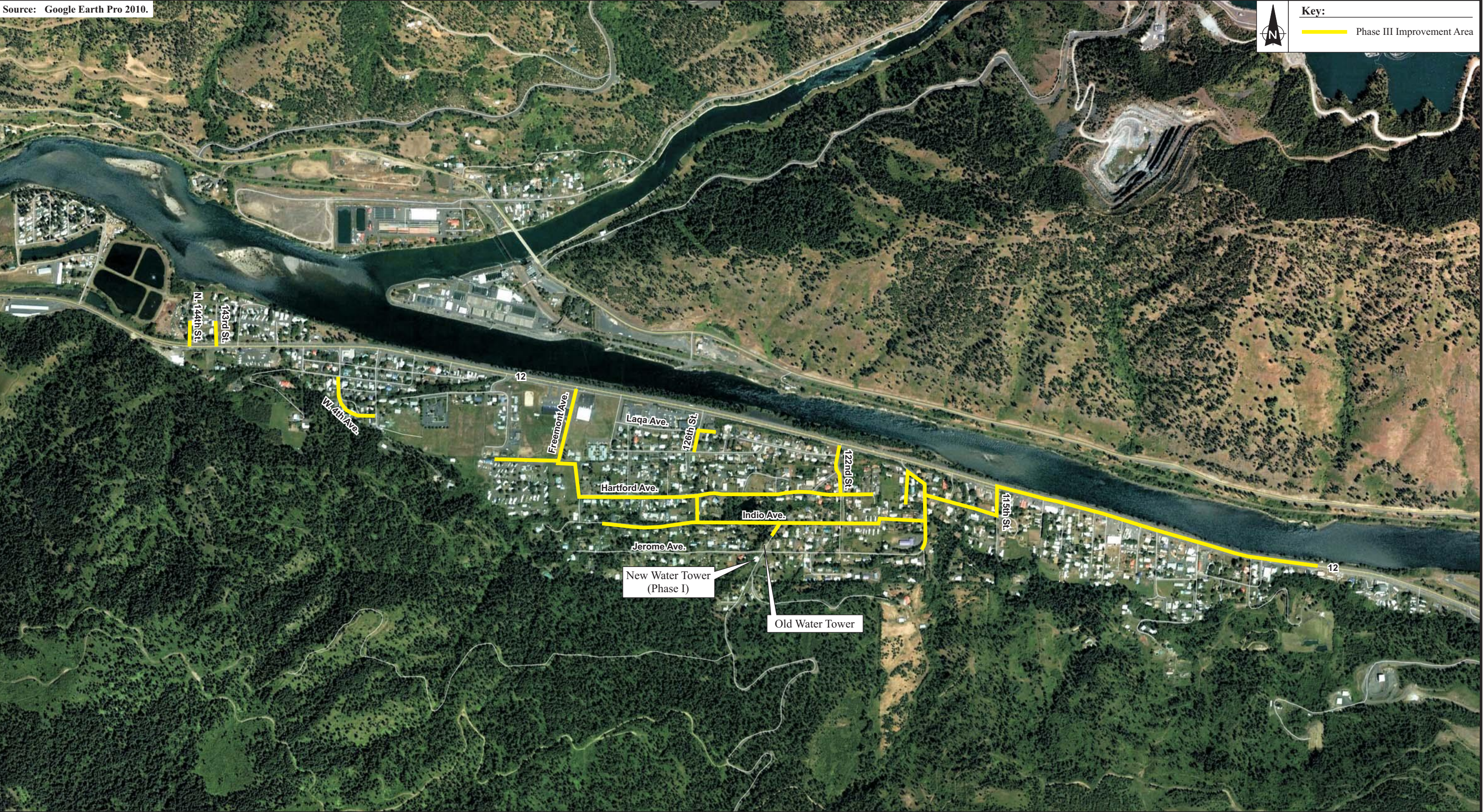
 <b>ecology and environment, inc.</b> Global Specialists in the Environment Seattle, Washington	OROFINO ASBESTOS SITE Orofino, Idaho		Figure 2-3 RIVERSIDE WATER AND SEWER DISTRICT PHASE II WATER SYSTEM IMPROVEMENTS, 2008		
	 Approximate Scale in Feet		Date: 4/22/11	Drawn by: AES	10:START-3\10090008\fig 2-3

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Source: Google Earth Pro 2010.



Key:  
 Phase III Improvement Area



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0 1054 2108  
Approximate Scale in Feet

OROFINO ASBESTOS SITE  
Orofino, Idaho

Figure 2-4  
RIVERSIDE WATER AND SEWER DISTRICT  
PHASE III WATER SYSTEM IMPROVEMENTS, 2009

Date: 4/22/11	Drawn by: AES	10:START-3\10090008\fig 2-4
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# 3 Removal Action Description

In the fall of 2010, EPA performed an RA at the Orofino Asbestos Site to address the potential human health risks from asbestos fibers caused by the placement of asbestos-contaminated soil as fill material at various locations in the community.

## 3.1 Removal Action Objectives

The 2010 RA was performed to mitigate the immediate threat posed by friable ACM to nearby residents, visitors, and workers. Based on the results of the Site visit in June 2010 and the RSE in August 2010, all asbestos-contaminated soil placed as fill material by District contractors as part of the 2008 and 2009 water line improvements was presumed to be contaminated with asbestos and/or friable ACM such as ACP and transite siding. Therefore, the objective of the RA was to remove the asbestos-contaminated soil, where identified, for proper off-Site disposal. Specifically, the following steps were included as the RA objectives:

1. Remove asbestos-contaminated soil containing ACP or transite from six properties (see Section 2.1) where it was known to be located. Specifically, for each affected property, the objective was to:
  - Excavate asbestos-contaminated soil until the underlying native material was observed;
  - Continue to over-excavate an additional 6 inches into the native material to ensure that all asbestos was removed;
  - Dispose of the asbestos-contaminated soil at an approved National Emissions Standards for Hazardous Air Pollutants (NESHAPs) disposal facility;
  - Collect a confirmation soil sample for analysis to confirm the removal of asbestos;
  - Backfill over-excavated areas with clean material such as soil or gravel (only over-excavated native material will be backfilled); and
  - Re-grade disturbed areas to ensure proper surface water drainage, followed by the application of hydroseed or sod where appropriate.
2. Continue to investigate other potential properties in the community that may have received asbestos-contaminated soil.

## 3.2 Changes to the Removal Action Scope during Cleanup

EPA eventually became aware of a number of additional properties that received asbestos-contaminated soil; to date, at least 22 properties have been identified. To the extent possible, EPA included these additional properties in the 2010 RA.

As the RA progressed, it became apparent that EPA would not be able to address all the known contaminated properties within the scope or schedule of the 2010 RA, in part because of limited time before seasonal rain and snow would have prohibited cleanup activities. EPA completed the cleanup of 12 properties, while 10 others were not completed and are scheduled for cleanup in 2011. Included in the properties that were not completed are two of the six properties originally planned for the 2010 RA (i.e., 291 118<sup>th</sup> St. and 4753 Transfer Station Road).

Of the 10 properties not completed in 2010, five were provided with interim protective measures (i.e., temporary gravel or soil layers placed on contaminated areas). EPA provided the interim cover for four of these properties, while the responsible party provided the fifth at 12976 Highway 12 as discussed in Section 2.4. Interim cover was not provided for the other five properties not completed in 2010, because ACP was not specifically observed at the surface of the fill material and/or at the request of the property owner.

A summary of the properties that were either completed in 2010 or that are scheduled for 2011, including those that received an interim cover, is provided in Table 2-1 and Figure 2-2.

Additionally, as noted above, EPA intended only to replace the over-excavated native material with clean material. However, to be responsive to the concerns of the affected residential landowners about the status of their property following cleanup (i.e., collateral improvements to property incidental to placement of the asbestos-contaminated soil), EPA agreed to replace all excavated material (asbestos-contaminated soil and over-excavated native soil) at residential properties only.

## 4 Project Organization, Cost, and Schedule

EPA Region 10 performed the RA in October and November 2010. This section describes the participating organizations and roles and the project costs and schedule.

### 4.1 Key Organizations and Roles

The 2010 RA was performed by EPA and its contractors:

**On-Scene Coordinator:** The RA was performed under the supervision of an EPA OSC.

**Emergency and Rapid Response Services:** RA cleanup work was performed under the EPA Region 10 Emergency and Rapid Response Services (ERRS) contract by Environmental Quality Management, Inc. (EQM) and its subcontractor McGillivray Environmental (McGillivray). ERRS personnel includes an Asbestos Hazard Emergency Response Act (AHERA)-certified asbestos abatement supervisor and worker.

**START:** E & E, under an EPA Region 10 START contract, provided on-Site technical assistance, collected environmental samples, and documented Site activities.

### 4.2 Project Costs

EPA costs for the 2010 RA included ERRS and START. Estimated costs for the RA through June 17, 2011, are summarized below in Table 4-1.

**Table 4-1 Project Costs**

	<b>Cost to Date (\$)</b>	<b>Ceiling Costs (\$)</b>
<b>Extramural Costs</b>		
ERRS	403,000	850,000
START-3	128,000	130,000
<b>Total</b>	<b>\$521,000</b>	<b>\$980,000</b>

### 4.3 Final Project Schedule

Table 4-2 summarizes the project schedule during the 2010 removal activities.

**Table 4-2 Project Schedule**

Activity	Date
EPA, ERRS, and START mobilized to the Site and began cleanup activities.	October 13, 2010
START surveyed Phase II and Phase III project areas for ACM in the right of way.	October 19-21, 2010
2010 RA was completed; EPA, ERRS, and START demobilized from the Site.	November 3, 2010

# **5 Removal Activities**

## **5.1 General Cleanup Activities**

The removal activities performed during the 2010 RA included the removal of asbestos-contaminated soil from multiple properties in and around the City of Orofino. The following subsections describe the general removal activities performed for each property. Site-specific information for each property is discussed in Section 5.2.

### **5.1.1 Mobilization**

EPA, ERRS, and START personnel arrived in Orofino on October 13, 2010. By October 14, 2010, a total of one EPA, two START, and eleven ERRS personnel were in Orofino for the RA. ERRS brought equipment including excavators, a skid steer, several dump trucks, and two water trucks to perform the RA. START brought air monitoring equipment, dust monitors, soil and bulk sampling equipment, a mobile communication truck, and an equipment job trailer.

The asbestos-contaminated soil property at 14228 Highway 12 was located directly adjacent to a commercial RV park (14224 Highway 12). ERRS used the property at 14228 Highway 12 to stage equipment, consolidate asbestos-contaminated soil from other properties, and to load long-range haul trucks for off-Site transportation and disposal. EPA's equipment trailer and mobile communication truck were staged at the RV park next door (14224 Highway 12) as the Site's command post (Figure 5-1).

### **5.1.2 Impacted Property Identification and Access**

EPA was aware of seven properties that had received asbestos-contaminated soil before the beginning of the RA. For one of these properties (12976 Highway 12), the responsible party placed a temporary cover of approximately 4 inches of gravel over the asbestos-contaminated soil and performed other control actions as described in Section 2.4. The remaining six properties were planned for the 2010 RA, although cleanup activities were not completed for all these properties in 2010, as discussed in Section 3.2.

Throughout the course of the 2010 RA, EPA discovered additional properties that had received the asbestos-contaminated soil through community outreach, meetings with local government and District personnel, and meetings with property owners. EPA visited each property to interview the property owner or resident and investigate for the possible presence of asbestos-contaminated soil. If EPA observed ACP or asbestos-contaminated soil, then the property was placed on the list of potential removal properties pending authorization from the property owner. Signed consent for access agreements from the property owners are maintained on file at EPA.

Once access was obtained for properties with asbestos-contaminated soil, EPA identified the specific asbestos-contaminated soil area and then coordinated with the property owner regarding the removal approach, schedule, and any specific property issues.

### **5.1.3 Work Zones**

Based on visual observations and input from the affected property owner, ERRS set up a work zone around the area of asbestos-contaminated soil with a silt fence and an orange construction fence. The silt fence was used to help prevent soil runoff during dust suppression and removal

activities, and the orange construction fence was placed on the outside of the silt fence as a visual barrier to establish the perimeter of the exclusion zone (i.e., the work zone requiring appropriate personal protective equipment [PPE]) and to preclude entry by the public. Additionally, air sampling pumps were set up around the perimeter of the work zone, and DataRAM dust monitors were used to monitor for the potential release of asbestos fibers and particulates.

#### **5.1.4 Excavation**

Once each work zone was established, ERRS excavated the asbestos-contaminated soil into piles with a skid steer and/or mini-excavator. Once the asbestos-contaminated soil was removed, ERRS over-excavated an additional 6 inches to ensure that any additional contaminated soil was removed. ERRS then used an excavator to transfer the asbestos-contaminated soil into dump trucks. The loads were covered by tarps and then transferred to the staging area at 14228 Highway 12.

As the asbestos-contaminated soil was excavated and stockpiled, large pieces of ACP were segregated from the asbestos-contaminated soil for separate handling and disposal.

During excavation activities, workers inside the work zone wore level C PPE, including Tyvek coveralls, rubber boots, nitrile gloves, hard hats, and half mask respirators with high-efficiency particulate air (HEPA) filters.

#### **5.1.5 Best Management Practices**

During excavation, ERRS used best management practices (BMPs) for dust suppression and to minimize other impacts to the community. ERRS operated a water truck to constantly spray water on the soil as it was excavated, overturned, and stockpiled. Other BMPs used during the RA included wetting the excavated soil in the trucks, tarping the beds of the trucks, and inspecting the trucks for any loose material before leaving each property. Any loose material observed on the trucks was washed off before the trucks left the property. These BMPs were performed to prevent dust and asbestos fibers from becoming airborne and potentially migrating off Site.

#### **5.1.6 Air Monitoring**

START performed air monitoring at the perimeter of work zones to ensure that dust suppression methods were working and that the off-Site migration of dust, asbestos, and other fibers was minimized. Workers inside the excavation zone also periodically wore personal air sampling pumps to monitor their potential exposure to asbestos and other fibers. The results of the air monitoring are discussed in Section 8 and indicate that dust control efforts were successful.

#### **5.1.7 Post-Excavation Confirmation Sampling**

Once the asbestos-contaminated soil was removed, the quantity of recovered ACP was measured and recorded, including the length (linear feet) and weight (pounds). START then collected a small sample of the ACP for PLM testing. The remainder of the ACP pieces recovered from each property was then placed in asbestos waste disposal bags for later disposal.

Upon completion of the excavation activities, START collected a 15- to 30-part composite soil sample from the floor of the excavation area for confirmation analysis at the off-Site laboratory.

The results of all confirmation soil samples indicated that no asbestos was detected; for additional details see Section 8.

### **5.1.8 Backfill, Regrading, and Restoration**

Once the soil sample results were obtained indicating that asbestos was not present at the bottom of an excavation area, ERRS personnel backfilled the area with either clean top soil or 1-inch gravel, as selected by the property owner. Backfill was brought in via dump trucks and spread with the skid steer and mini-excavator. For properties that received top soil, hydro-seed was sprayed with a seed truck after the top soil was evenly spread and leveled to the property owner's approval.

EPA assessed the condition of each asbestos-contaminated soil location that could not be completed during the 2010 RA and provided interim protective measures as needed. For properties with visible ACP at the ground surface, EPA generally provided a 4-inch layer of gravel as a temporary cap. For some of these properties no gravel cap was provided, either because there was no visible ACP or the property owner otherwise indicated that a temporary cap was not wanted. Additional property-specific details are provided in Section 5.2.

### **5.1.9 Right-of-Way Survey and ACP Recovery**

On October 19-20, 2010, EPA surveyed the public rights-of-way along the streets included in the Phase II and Phase III water line improvement projects (Figures 2-3 and 2-4). Two START personnel walked along these streets to look for visible pieces of ACP in the rights-of-way that may have been left on the ground surface following the water line improvement work. START was accompanied by the ERRS asbestos supervisor, who picked up the pieces of ACP and placed them in asbestos waste disposal bags for later off-Site disposal.

### **5.1.10 Off-Site Disposal**

Asbestos-contaminated soil from the various properties was consolidated at the 14228 Highway 12 property. This property had also received asbestos-contaminated soil, and it was selected as the staging/loading area because of the property layout and its proximity to Highway 12. As asbestos-contaminated soil was unloaded here from other community properties, an ERRS equipment operator used an excavator to consolidate the asbestos-contaminated soil into stockpiles for efficient off-Site loading. While managing the asbestos-contaminated soil, ERRS also removed and segregated any large pieces of ACP that were uncovered. Throughout these operations, ERRS used a water truck to suppress dust.

The asbestos-contaminated soil was loaded into long-distance haul truck-and-pups for transfer to the Graham Road landfill in Medical Lake, Washington, which is a RCRA Subtitle D landfill that is licensed for asbestos waste. Before the trucks left the Site, the asbestos-contaminated soil was covered with plastic sheeting inside the beds of the trucks and pups, and then the beds were covered with tarps to prevent dust migration during transport.

## **5.2 Property-Specific Information**

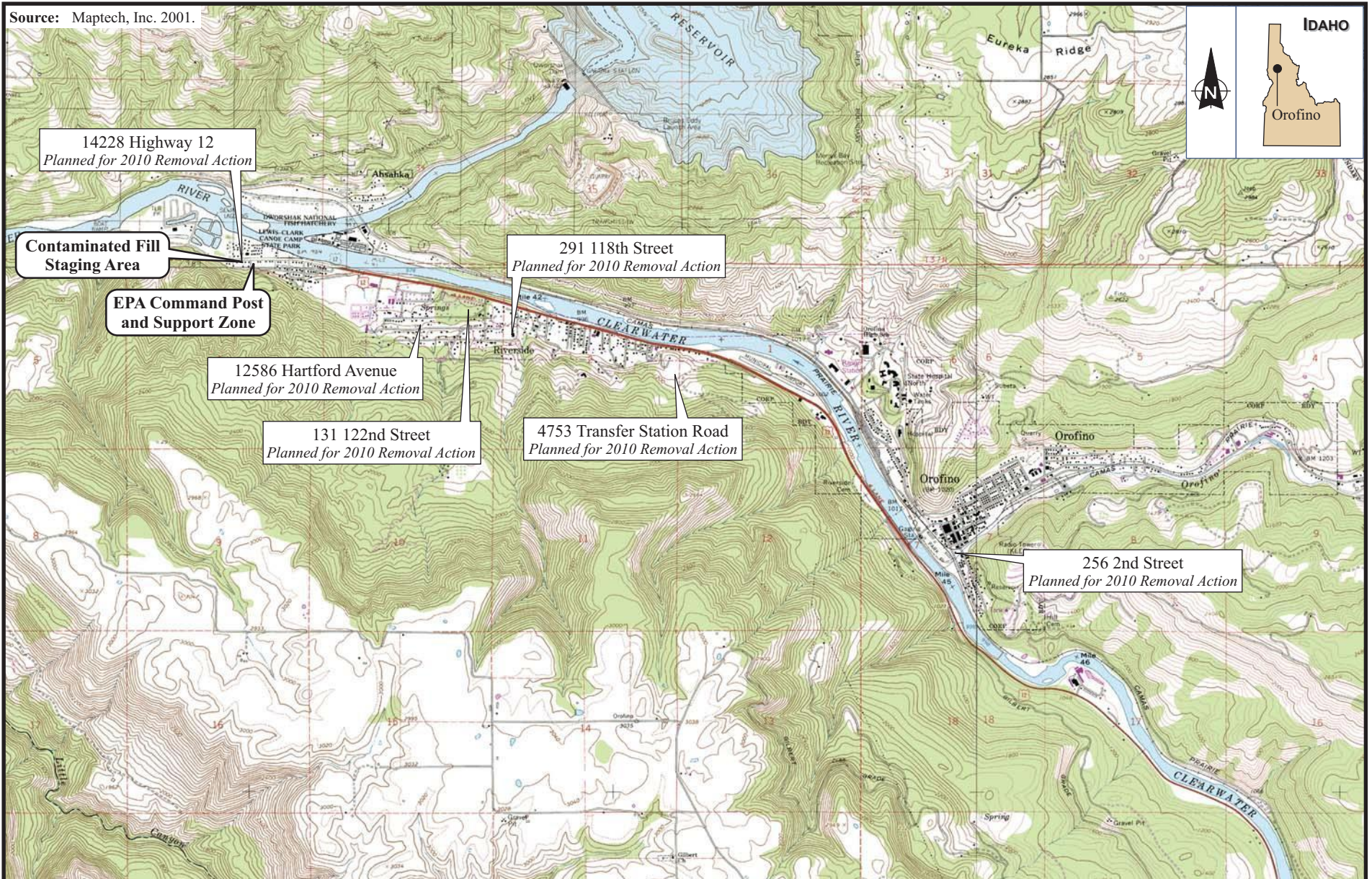
A summary of RA information and data for the individual properties is provided in Table 5-1. This table includes the addresses of the individual properties, a brief description of the work performed, the status at the end of the 2010 RA, the dates that cleanup work was performed, the



volume of asbestos-contaminated soil removed (if applicable), the length and weight of recovered ACP, and the type and quantity of any backfill or interim cover provided (if applicable). Individual property figures with details of the work performed at each property are provided in Appendix B. Information sheets summarizing the removal work and results for each property are provided in Appendix C.

Table 5-1										
Summary of Work Performed, 2010 Removal Action										
Orofino Asbestos Site										
Orofino, Idaho										
Property Address	2010 Removal Work	Individual Property Figure	Dates		Volume Asbestos-Contaminated Soil Removed (cubic yards)	Recovered ACP		Backfill / Interim Cover		Comment
			Start	Finish		Length (linear feet)	Weight (pounds)	Material	Volume (cubic yards)	
Original Action Memorandum Properties										
12976 Highway 12	Interim Cover (Responsible Party)	B-1	–	–	–	–	–	–	–	Planned for 2011 Removal Action
12586 Hartford Avenue	Asbestos-Contaminated Soil Removed	B-2	10/14/2010	10/19/2010	132	46.9	197	1" Gravel	72	
14228 Highway 12	Asbestos-Contaminated Soil Removed	B-3	10/18/2010	11/2/2010	1984	222.2	1069	1" Gravel	360	
256 2nd Street	Asbestos-Contaminated Soil Removed	B-4	10/15/2010	10/15/2010	72	0	< 1	Top Soil	72	
131 122nd Street	Asbestos-Contaminated Soil Removed	B-5	10/18/2010	10/22/2010	144	69.75	387	Top Soil	72	
291 118th Street	Interim Cover (EPA)	B-6	10/26/2010	10/28/2010	–	–	–	1" Gravel	624	Planned for 2011 Removal Action
4753 Transfer Station Road	Interim Cover (EPA)	B-7	10/26/2010	10/28/2010	–	–	–	1" Gravel	204	Planned for 2011 Removal Action
New Properties with Removal Work										
12140 Hartford Avenue	Interim Cover (EPA)	B-8	10/26/2010	11/1/2010	–	–	–	1" Gravel	180	Planned for 2011 Removal Action
12170 Hartford Avenue	None	B-9	–	–	–	–	–	–	–	Planned for 2011 Removal Action
12453 Hartford Avenue	None	B-10	–	–	–	–	–	–	–	Planned for 2011 Removal Action
12517 Hartford Avenue	Interim Cover (EPA)	B-11	10/26/2010	10/29/2010	–	–	–	1" Gravel	90	Planned for 2011 Removal Action
12611 Hartford Avenue	Asbestos-Contaminated Soil Removed	B-12	10/25/2010	10/29/2010	139.5	0	0	Top Soil	12	
12719 Hartford Avenue	None	B-13	–	–	–	–	–	–	–	Planned for 2011 Removal Action
12742 Hartford Avenue	None	B-14	–	–	–	–	–	–	–	Planned for 2011 Removal Action
12154 Indio Avenue	Asbestos-Contaminated Soil Removed	B-15	10/20/2010	10/27/2010	132	24	197	1" Gravel	60	
12252 Indio Avenue	Asbestos-Contaminated Soil Removed	B-16	10/22/2010	10/28/2010	36	5	40	Top Soil	12	
12253 Indio Avenue	Asbestos-Contaminated Soil Removed	B-17	10/20/2010	10/27/2010	36	12	76	1" Gravel	24	
12474 Indio Avenue	Asbestos-Contaminated Soil Removed	B-18	10/21/2010	10/28/2010	48	17	30	Top Soil	48	
12742 Jerome Avenue	Asbestos-Contaminated Soil Removed	B-19	10/22/2010	10/27/2010	24	0	0	Top Soil	18	
129 119th Avenue	Asbestos-Contaminated Soil Removed	B-20	10/25/2010	11/1/2010	168	34	283	1" Gravel	192	
130 122nd Street	None	B-21	–	–	–	–	–	–	–	Planned for 2011 Removal Action
10820 Highway 12	Asbestos-Contaminated Soil Removed	B-22	10/21/2010	10/21/2010	12	4	15	–	–	Asbestos-Contaminated Soil was placed as a pile on gravel/grass; no backfill required.
ACP Sample Only										
Address Not Available	ACP Sample	none	10/22/2010	10/22/2010	–	35.5	285	–	–	
Dust Sampling										
12359 Hartford Avenue	Dust Sampling	none	–	–	–	–	–	–	–	
12451 Hartford Avenue	Dust Sampling	none	–	–	–	–	–	–	–	
2010 Totals					2927.5	470.35	2579			

Key:

- " = inch
- = not applicable
- ACP = asbestos-cement pipe
- EPA = United States Environmental Protection Agency



 <b>ecology and environment, inc.</b> Global Specialists in the Environment Seattle, Washington	<b>OROFINO ASBESTOS SITE</b> Orofino, Idaho	<b>Figure 5-1</b> <b>SITE LAYOUT AT THE BEGINNING</b> <b>OF THE 2010 REMOVAL ACTION</b>		
	 Approximate Scale in Feet	Date: 4/20/11 Drawn by: AES 10:START-3\10080001\fig 5-1		

## **6 Post-Removal Site Controls**

Post-removal site controls (PRSCs) such as administrative or engineered controls are not required at any of the locations where all asbestos-contaminated soil was completely removed during the 2010 RA. The need for PRSCs for the 2011 locations will be determined at the completion of cleanup activities.

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## 7 Waste Management, Transportation, and Disposal Activities

The wastes generated from the 2010 Orofino Asbestos Site RA included asbestos-contaminated soil and ACM debris (ACP pipe and PPE). A summary of these waste streams and final disposition locations is provided below. Copies of applicable waste disposal records are provided in Appendix D.

Waste Stream	Quantity	Disposal Facility
Asbestos-contaminated soil	2,494 tons	Waste Management Graham Road Landfill Medical Lake, Washington
ACM debris, including ACP and PPE	11.5 cubic yards	Waste Management Graham Road Landfill Medical Lake, Washington

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## 8 Sampling and Monitoring Activities

START collected samples of several different matrices, including bulk building materials, air, soil, and dust, throughout the RA to support removal decisions. Summaries of the samples and matrices are provided below:

- Bulk samples were analyzed for asbestos by PLM in accordance with EPA Method 600/R-93-116, Visual Area Estimation;
- Air samples (perimeter and personal monitoring) were analyzed for asbestos and other fibers by phase contrast microscopy (PCM) in accordance with National Institute of Occupational Safety and Health (NIOSH) Method 7400;
- Air samples (perimeter monitoring) were analyzed for asbestos by TEM in accordance with International Organization of Standardization (ISO) Method 10312;
- Soil samples were analyzed for asbestos by PLM in accordance with California Air Resources Board (CARB) Method 435; and
- Dust samples were analyzed for the presence of asbestos fibers by TEM in accordance with American Society for Testing and Materials (ASTM) Method D5755-03.

Table 8-1 describes the samples collected during the RA and includes the location, date collected, matrix, and analytical parameter. Additional details of the presented in the remainder of this section.

Samples were collected and analyzed in accordance with the START Site-specific sampling plan (SSSP) for asbestos (E & E 2010). Off-Site asbestos analyses, including PLM, PCM, and TEM, were performed by Forensic Analytical Laboratories, Inc., (Forensic) of Hayward, California, as a subcontractor to E & E. Analytical data reports and data validation memoranda are presented in Appendix E.

### 8.1 Bulk Samples

During the 2010 RA, bulk ACP samples were collected to confirm that the material contained asbestos. START generally collected at least one bulk sample from each RA property where ACP was recovered during excavation activities. Twelve bulk samples were collected between October 15 and 26, 2010, and were analyzed by PLM.

The results of the PLM analyses performed on bulk samples are summarized in Table 8-2. All 12 bulk samples collected during the RA were positive for asbestos and contained 20% to 30% chrysotile asbestos. Samples 10100309 and 10100326 also contained 5% and 3% crocidolite asbestos, respectively.

### 8.2 Air Samples

Air samples were collected throughout the RA by START personnel to monitor worker exposure (personal samples) and efforts to reduce off-Site dust and asbestos fiber emissions (perimeter samples).

### **8.2.1 Personal Samples by PCM**

A total of eight personal samples were collected and analyzed using PCM. Personal samples were collected from asbestos workers and heavy equipment operators who were working in areas with potential for exposure to asbestos. Regardless of the results of the personal air sampling, Site workers wore Level C PPE (including respirators with HEPA cartridges) while working in ACM-contaminated areas.

Personal samples were collected in accordance with NIOSH method 7400. Personal samples were collected by placing a personal air sampling pump on the worker to be monitored. A mixed cellulose ester (MCE) filter cassette was placed in the worker's breathing zone and attached to the pump with polyethylene tubing. Personal samples were generally collected with 25-millimeter (mm) diameter filter cassettes with a pore size of 0.8 micrometer ( $\mu\text{m}$ ) filter. The pumps were set at flow rates of approximately 2 liters per minute (L/min) and allowed to run for approximately 2 to 5 hours for permissible exposure limit (PEL) samples. The flow rates of the pump were recorded before and after sampling with a flow meter, and the average flow rate for the entire sampling time was calculated. The sample volume was then calculated using the average flow rate and the sample duration.

Table 8-3 summarizes the sample information and PCM results for the personal air samples. PCM results ranged from not detected to 0.007 fibers per cubic centimeter of air (f/cc). All of the PCM results were below the Occupational Safety and Health Administration (OSHA) PEL of 0.1 f/cc. According to NIOSH method 7400, the PCM analysis measures asbestos as well as other fibers; therefore, the PCM results may include non-asbestos fibers.

### **8.2.2 Perimeter Samples by PCM and TEM**

A total of 61 perimeter samples were collected for PCM or TEM analyses, although three could not be analyzed because of damage to the filter or dust overloading. Additionally, eight blank filter cassettes were collected. The samples were collected at the perimeter of the work zone of each property during removal activities to monitor asbestos and fiber concentrations. Fifty-two of the perimeter samples and seven blanks were analyzed by PCM, while six samples and one blank were analyzed by TEM.

Perimeter air samples were collected from stationary sources to determine the airborne concentration of asbestos fibers. The samples were collected using Gast pumps at flow rates of approximately 10 L/min. Generally, samples from PCM testing were collected on 0.8  $\mu\text{m}$  MCE filters, and samples for TEM were collected on 0.45  $\mu\text{m}$  filters. The filter cassettes were hung at approximately 4-6 feet above the ground to represent a person's breathing zone.

Most of the samples were collected and analyzed for PCM because of the quicker turn around times and lower analytical costs. PCM samples were collected daily during RA activities at excavation areas. A smaller subset of the samples was analyzed for asbestos by TEM in accordance with ISO method 10312. While more costly and time consuming, the ISO TEM method has several advantages over PCM, including greater sensitivity, the ability to positively identify asbestos (PCM measures asbestos and other fibers and therefore can not positively identify asbestos), and the ability to differentiate between different asbestos fiber types and sizes.

### **PCM Results**

The results of the PCM analyses performed on the perimeter samples are summarized in Table 8-4. Most of the PCM samples were non-detect, with detection limits ranging from 0.001 to 0.003 f/cc. Only two of the PCM samples had detectable concentrations, both at 0.001 f/cc. No fibers were detected on any of the blank samples. The perimeter monitoring action limit for the RA was 0.01 f/cc, which is the AHERA clearance limit for asbestos projects. None of the 52 PCM field samples exceeded the action level.

### **TEM Results**

The results of TEM analyses are presented in Table 8-5. With the ISO 10312 TEM method, all individual asbestos structures/fibers detected in the sample field are analyzed, and the length, width, aspect ratio (ratio of length to width), and asbestos species (e.g., chrysotile, amosite, etc.) are recorded.

The results indicate that of the six samples analyzed by TEM, only one contained detectable structures. The total asbestos structure concentration for this sample was 0.024 structures per cubic centimeter (s/cc) of chrysotile asbestos, which exceeded the Site action limit. However, this sample did not contain any PCM-equivalent asbestos structures (i.e., those longer than 5  $\mu\text{m}$  with a width greater than or equal to 0.25  $\mu\text{m}$  and less than or equal to 3.0  $\mu\text{m}$ , and an aspect ratio greater than or equal to 3). While the ISO 10312 TEM method can detect a range of asbestos structure and fiber sizes, reporting the results in terms of PCM-equivalent structures allows for a direct comparison to PCM results and to regulatory limits such as the OSHA PEL. The PCM-equivalent result for this sample was non-detect (less than 0.0009 s/cc).

The rest of the other TEM samples were non-detect for both total asbestos structures and PCM-equivalent structures. The detection limits for these samples ranged from 0.0009 to 0.001 s/cc, which are well below the perimeter action level of 0.01 s/cc. Additionally, no asbestos fibers were detected on the TEM blank.

## **8.3 Dust Monitoring**

In addition to the air sampling, START also monitored airborne dust concentrations during Site activities. Dust monitoring was performed with DataRAM 4000 particulate monitors. The action level for airborne particulate was 1 milligram per cubic meter ( $\text{mg}/\text{m}^3$ ), which is less than the OSHA PEL of 5  $\text{mg}/\text{m}^3$  for respirable dust. Daily time-weighted average dust monitoring results were generally well below this action limit.

## **8.4 Soil Samples**

START collected a total of 14 soil samples for asbestos analysis during the RA. Thirteen were post-excavation confirmation samples, with one composite soil sample collected from each excavation area following the removal of the asbestos-contaminated soil. These post-excavation samples were collected to confirm that the asbestos-contaminated soil had been removed from each property where EPA performed removal work.

The 14th soil sample (10100308) was collected as a grab sample from underneath a piece of ACP observed on the ground at the 12517 Hartford Avenue property. EPA was deciding whether

the removal work could be completed at this property during the 2010 RA, and this sample was collected to provide data regarding the condition of the ACP observed on the property.

The soil samples were analyzed for asbestos using PLM following the CARB Method 435 sample preparation method, and the results are summarized in Table 8-6. The results for all soil samples were non-detect with detection limits of 0.25%.

## **8.5 MicroVac/Dust Samples**

During the 2010 RA, EPA interviewed two homeowners who lived on Hartford Avenue along the route of the Phase III project area. Although these homeowners did not receive any asbestos-contaminated soil as fill material, they reported that a large quantity of dust was generated during the ACP excavation work and migrated to their houses. One of the homeowners reported that dust from the ACP excavation work settled inside the property's garage and shed while the doors were open, and the second homeowner reported that a large quantity of dust settled inside the property's open-air carport.

To investigate whether the migrating dust from the ACP excavation work may have contained asbestos, START collected dust samples from these houses. Six samples (sample numbers 10JN-0001 through 10JN-0006) were collected from 12451 Hartford Avenue, and three samples (0JN-0007 through 10JN-0009) were collected from 12359 Hartford Avenue. The dust samples were collected on surfaces such as walls, work benches, and light fixtures that were located in the areas where the homeowners had observed dust settling from the ACP excavation work.

The samples were collected using the microvacuum (MicroVac) sampling technique in accordance with ASTM Method D5755-03, in which dust from a 100 square centimeter area is collected on a 0.45 µm MCE filter cassette using a personal sampling pump. The dust samples were analyzed for asbestos fibers using TEM in accordance with the method. The results are summarized in Table 8-7, and all dust sample results were non-detect, with detection limits ranging between 2,800 and 66,300 structures per square centimeter.

TABLE 8-1

**SUMMARY OF SAMPLES  
OROFINO ASBESTOS SITE  
OROFINO, IDAHO**

EPA Sample ID	Location ID	Property Address	Sample Date	Matrix	Sample Matrix and Asbestos Analysis Method					
					Bulk Samples	Air Samples			Soil Samples	MicroVac/Dust Samples
						EPA 600/R- 93-116 PLM	NIOSH 7400 PCM (Personal)	NIOSH 7400 PCM (Perimeter)	ISO 10312 TEM (Perimeter)	
10100101	CC-01	14228 Highway 12	10/14/2010	Air				X		
10100102	CC-02	14228 Highway 12	10/14/2010	Air				X		
10100103	CC-03	14228 Highway 12	10/14/2010	Air				X		
10100104	WA-01	12586 Hartford Avenue	10/14/2010	Air				X		
10100105	WA-02	12586 Hartford Avenue	10/14/2010	Air				X		
10100106	WA-03	12586 Hartford Avenue	10/14/2010	Air					X	
10100107	CC-EO-01	14228 Highway 12	10/14/2010	Air			X			
10100108	CC-AW-01	14228 Highway 12	10/14/2010	Air			X			
10100109	WA-AW-01	12586 Hartford Avenue	10/14/2010	Air			X			
10100110	WA-EO-01	12586 Hartford Avenue	10/14/2010	Air			X			
10100111	CC-01	14228 Highway 12	10/15/2010	Air				X		
10100112	CC-02	14228 Highway 12	10/15/2010	Air				X		
10100113	CC-03	14228 Highway 12	10/15/2010	Air				X		
10100114	WA-01	12586 Hartford Avenue	10/15/2010	Air				X		
10100115	WA-02	12586 Hartford Avenue	10/15/2010	Air				X		
10100116	WA-03	12586 Hartford Avenue	10/15/2010	Air				X		
10100117	NK-01	256 2nd Street	10/15/2010	Air					X	
10100118	NK-02	256 2nd Street	10/15/2010	Air				X		
10100119	NK-03	256 2nd Street	10/15/2010	Air				X		
10100120	BR-01	131 122nd Street	10/18/2010	Air					X	
10100121	BR-02	131 122nd Street	10/18/2010	Air				X		
10100122	BR-03	131 122nd Street	10/18/2010	Air				X		
10100123	CC-03	14228 Highway 12	10/18/2010	Air				X		
10100124	CC-01	14228 Highway 12	10/18/2010	Air				X		
10100125	CC-02	14228 Highway 12	10/18/2010	Air				X		
10100126	CC-EO-02	14228 Highway 12	10/18/2010	Air			X			
10100127	CC-WW-01	14228 Highway 12	10/18/2010	Air			X			
10100128	BR-04	131 122nd Street	10/18/2010	Air				X		
10100129	BR-05	131 122nd Street	10/18/2010	Air				X		
10100130	BR-06	131 122nd Street	10/18/2010	Air				X		
10100131	CC-01	14228 Highway 12	10/19/2010	Air				X		
10100132	CC-02	14228 Highway 12	10/19/2010	Air				X		
10100133	CC-03	14228 Highway 12	10/19/2010	Air				X		
10100134	MA-01	12253 Indio Avenue	10/20/2010	Air				X		
10100135	MA-02	12253 Indio Avenue	10/20/2010	Air				X		
10100136	MA-03	12253 Indio Avenue	10/20/2010	Air				X		
10100137	MB-01	12154 Indio Avenue	10/20/2010	Air				X		
10100138	MB-02	12154 Indio Avenue	10/20/2010	Air				X		
10100139	MB-03	12154 Indio Avenue	10/20/2010	Air				X (Damaged)		
10100140	BL-01	Blank	10/20/2010	Air				X		
10100141	BL-02	Blank	10/20/2010	Air				X		
10100142	BL-03	Blank	10/20/2010	Air				X		
10100143	MB-AW-01	12154 Indio Avenue	10/20/2010	Air			X			
10100144	MB-EO-01	12154 Indio Avenue	10/20/2010	Air			X			
10100145	CC-01	14228 Highway 12	10/20/2010	Air				X		
10100146	CC-02	14228 Highway 12	10/20/2010	Air					X	
10100147	CC-03	14228 Highway 12	10/20/2010	Air				X		
10100148	CC-01	14228 Highway 12	10/21/2010	Air				X		
10100149	CC-02	14228 Highway 12	10/21/2010	Air				X		
10100150	CC-03	14228 Highway 12	10/21/2010	Air				X		
10100151	FI-01	12474 Indio Avenue	10/21/2010	Air					X (Damaged)	
10100152	FI-02	12474 Indio Avenue	10/21/2010	Air				X	X (Performed on PCM Sample)	
10100153	FI-03	12474 Indio Avenue	10/21/2010	Air				X		
10100154	JE-01	12742 Jerome Avenue	10/22/2010	Air				X		
10100155	JE-02	12742 Jerome Avenue	10/22/2010	Air				X (Overloaded)		
10100156	JE-03	12742 Jerome Avenue	10/22/2010	Air				X		
10100157	CC-01	14228 Highway 12	10/22/2010	Air				X		
10100158	CC-02	14228 Highway 12	10/22/2010	Air				X		
10100159	CC-03	14228 Highway 12	10/22/2010	Air				X		
10100160	MC-01	12252 Indio Avenue	10/22/2010	Air					X	
10100161	MC-02	12252 Indio Avenue	10/22/2010	Air				X		
10100162	MC-03	12252 Indio Avenue	10/22/2010	Air				X		
10100163	CB-01	12611 Hartford Avenue	10/25/2010	Air				X		
10100164	CB-02	12611 Hartford Avenue	10/25/2010	Air				X		
10100165	CB-03	12611 Hartford Avenue	10/25/2010	Air				X		
10100166	CC-01	14228 Highway 12	10/25/2010	Air				X		
10100167	CC-02	14228 Highway 12	10/25/2010	Air				X		
10100168	CC-03	14228 Highway 12	10/25/2010	Air				X		
10100169	BL-04	Blank	10/27/2010	Air				X		
10100170	BL-05	Blank	10/27/2010	Air				X		
10100171	BL-06	Blank	10/27/2010	Air				X		
10100172	BL-07	Blank	10/27/2010	Air				X		
10100173	BL-08	Blank	10/27/2010	Air					X	
10100174	CC-01	14228 Highway 12	10/28/2010	Air				X		
10100175	CC-02	14228 Highway 12	10/28/2010	Air				X		
10100176	CC-03	14228 Highway 12	10/28/2010	Air				X		

TABLE 8-1

**SUMMARY OF SAMPLES  
OROFINO ASBESTOS SITE  
OROFINO, IDAHO**

EPA Sample ID	Location ID	Property Address	Sample Date	Matrix	Sample Matrix and Asbestos Analysis Method					
					Bulk Samples	Air Samples			Soil Samples	MicroVac/Dust Samples
						EPA 600/R- 93-116 PLM	NIOSH 7400 PCM (Personal)	NIOSH 7400 PCM (Perimeter)	ISO 10312 TEM (Perimeter)	
10100301	WA-SC-01	12586 Hartford Avenue	10/15/2010	Soil					X	
10100302	WA-BK-01	12586 Hartford Avenue	10/15/2010	Bulk	X					
10100303	NK-SC-01	256 2nd Street	10/15/2010	Soil					X	
10100304	BR-BK-01	131 122nd Street	10/18/2010	Bulk	X					
10100305	BR-SC-01	131 122nd Street	10/18/2010	Soil					X	
10100306	BR-BK02	131 122nd Street	10/18/2010	Bulk	X					
10100307	BR-SC-02	131 122nd Street	10/18/2010	Soil					X	
10100308	CH-01-SS	12517 Hartford Avenue	10/19/2010	Soil					X	
10100309	CH-01-BK	12517 Hartford Avenue	10/19/2010	Bulk	X					
10100310	MA-BK-01	12253 Indio Avenue	10/20/2010	Bulk	X					
10100311	MA-SC-01	12253 Indio Avenue	10/20/2010	Soil					X	
10100312	MB-BK-01	12154 Indio Avenue	10/20/2010	Bulk	X					
10100313	MB-SC-01	12154 Indio Avenue	10/20/2010	Soil					X	
10100314	BA-BK-01	10820 Highway 12	10/21/2010	Bulk	X					
10100315	BA-SC-01	10821 Highway 12	10/21/2010	Soil					X	
10100316	FI-BK-01	12474 Indio Avenue	10/21/2010	Bulk	X					
10100317	FI-SC-01	12474 Indio Avenue	10/21/2010	Soil					X	
10100319	JE-SC-01	12742 Jerome Avenue	10/21/2010	Soil					X	
10100320	MC-BK-01	12252 Indio Avenue	10/21/2010	Bulk	X					
10100321	MC-SC-01	12252 Indio Avenue	10/21/2010	Soil					X	
10100322	HO-BK-01	Not Available	10/21/2010	Bulk	X					
10100324	CB-SC-01	12611 Hartford Avenue	10/25/2010	Soil					X	
10100325	CC-BK-01	14228 Highway 12	10/25/2010	Bulk	X					
10100326	HSC-BK-01	129 119th Avenue	10/26/2010	Bulk	X					
10100327	HSC-SC-01	129 119th Avenue	10/27/2010	Soil					X	
10100328	CC-SC-01	14228 Highway 12	10/29/2010	Soil					X	
10JN-0001	BK-01-MV	12451 Hartford Avenue	10/21/2010	Dust (MicroVac)						X
10JN-0002	BK-02-MV	12451 Hartford Avenue	10/23/2010	Dust (MicroVac)						X
10JN-0003	BK-03-MV	12451 Hartford Avenue	10/23/2010	Dust (MicroVac)						X
10JN-0004	BK-04-MV	12451 Hartford Avenue	10/23/2010	Dust (MicroVac)						X
10JN-0005	BK-05-MV	12451 Hartford Avenue	10/23/2010	Dust (MicroVac)						X
10JN-0006	BK-06-MV	12451 Hartford Avenue	10/23/2010	Dust (MicroVac)						X
10JN-0007	AD-01-MV	12359 Hartford Avenue	10/22/2010	Dust (MicroVac)						X
10JN-0008	AD-02-MV	12359 Hartford Avenue	10/22/2010	Dust (MicroVac)						X
10JN-0009	AD-03-MV	12359 Hartford Avenue	10/22/2010	Dust (MicroVac)						X

Key:

ASTM = American Society for Testing and Materials

BK = Bulk

BL = Blank

CARB = California Air Resources Board

EO = Excavation Operator

EPA = United States Environmental Protection Agency

ID = Identification

ISO = International Organization for Standardization

MV = MicroVac (dust sample)

n/a = Not Applicable

NIOSH = National Institute for Occupational Safety and Health

PCM = Phase Contrast Microscopy

PLM = Polarized Light Microscopy

TEM = Transmission Electron Microscopy

<b>TABLE 8-2</b>  <b>BULK MATERIAL SAMPLE RESULTS</b> <b>OROFINO ASBESTOS SITE</b> <b>OROFINO, IDAHO</b>				
<b>EPA Sample ID</b>	<b>Location ID</b>	<b>Property Address</b>	<b>Sample Date</b>	<b>Asbestos Type and Percentage EPA 600/R-93-116 PLM (%)</b>
10100302	WA-BK-01	12586 Hartford Avenue	10/19/2010	Chrysotile 30%
10100304	BR-BK-01	131 122nd Street	10/20/2010	Chrysotile 30%
10100306	BR-BK-02	131 122nd Street	10/20/2010	Chrysotile 30%
10100309	CH-01-BK	12517 Hartford Avenue	10/19/2010	Chrysotile 25% Crocidolite 5%
10100310	MA-BK-01	12253 Indio Avenue	10/20/2010	Chrysotile 20%
10100312	MB-BK-01	12154 Indio Avenue	10/20/2010	Chrysotile 20%
10100314	BA-BK-01	10820 Highway 12	10/21/2010	Chrysotile 20%
10100316	FI-BK-01	12474 Indio Avenue	10/21/2010	Chrysotile 20%
10100320	MC-BK-01	12252 Indio Avenue	10/21/2010	Chrysotile 20%
10100322	HO-BK-01	Not Available	10/21/2010	Chrysotile 20%
10100325	CC-BK-01	14228 Highway 12	10/25/2010	Chrysotile 20%
10100326	HSC-BK-01	129 119th Avenue	10/26/2010	Chrysotile 20% Crocidolite 3%

Key:

BK = Bulk

EPA = United States Environmental Protection Agency

ID = Identification

PLM = Polarized Light Microscopy

TABLE 8-3

**PERSONAL AIR SAMPLE RESULTS - PHASE CONTRAST MICROSCOPY  
OROFINO ASBESTOS SITE  
OROFINO, IDAHO**

<b>EPA Sample ID</b>	<b>Location ID</b>	<b>Property Address</b>	<b>Sample Date</b>	<b>Asbestos and Other Fibers NIOSH Method 7400 PCM (f/cc)</b>
<b>Action Limit (OSHA PEL)</b>				0.1
10100107	CC-EO-01	14228 Highway 12	10/14/2010	<b>0.005</b>
10100108	CC-AW-01	14228 Highway 12	10/14/2010	<b>0.007</b>
10100109	WA-AW-01	12586 Hartford Avenue	10/14/2010	0.004 U
10100110	WA-EO-01	12586 Hartford Avenue	10/14/2010	0.004 U
10100126	CC-EO-02	14228 Highway 12	10/18/2010	<b>0.005</b>
10100127	CC-WW-01	14228 Highway 12	10/18/2010	0.004 U
10100143	MB-AW-01	12154 Indio Avenue	10/20/2010	0.01 U
10100144	MB-EO-01	12154 Indio Avenue	10/20/2010	0.011 U

Note: A **BOLD** result indicates asbestos and other fibers were detected.

A highlighted cell indicates that the result exceeds the action limit.

Key:

AW = Asbestos Worker

EO = Excavation Operator

EPA = United States Environmental Protection Agency

f/cc = fibers per cubic centimeter

ID = Identification

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

PCM = Phase Contrast Microscopy

PEL = Permissible Exposure Limit

U = The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

WW = Water Truck Operator

<p align="center"><b>TABLE 8-4</b></p> <p align="center"><b>PERIMETER AIR SAMPLE RESULTS - PHASE CONTRAST MICROSCOPY</b></p> <p align="center"><b>OROFINO ASBESTOS SITE</b></p> <p align="center"><b>OROFINO, IDAHO</b></p>				
<b>EPA Sample ID</b>	<b>Location ID</b>	<b>Property Address</b>	<b>Sample Date</b>	<b>Asbestos and Other Fibers NIOSH Method 7400 PCM (f/cc)</b>
<b>Action Limit (Clearance Limit)</b>				0.01
10100101	CC-01	14228 Highway 12	10/14/2010	0.001 U
10100102	CC-02	14228 Highway 12	10/14/2010	0.001 U
10100103	CC-03	14228 Highway 12	10/14/2010	0.001 U
10100104	WA-01	12586 Hartford Avenue	10/14/2010	0.001 U
10100105	WA-02	12586 Hartford Avenue	10/14/2010	0.001 U
10100111	CC-01	14228 Highway 12	10/15/2010	0.001 U
10100112	CC-02	14228 Highway 12	10/15/2010	0.001 U
10100113	CC-03	14228 Highway 12	10/15/2010	0.001 U
10100114	WA-01	12586 Hartford Avenue	10/15/2010	0.002 U
10100115	WA-02	12586 Hartford Avenue	10/15/2010	0.001 U
10100116	WA-03	12586 Hartford Avenue	10/15/2010	0.001 U
10100118	NK-02	256 2nd Street	10/15/2010	0.002 U
10100119	NK-03	256 2nd Street	10/15/2010	0.002 U
10100121	BR-02	131 122nd Street	10/18/2010	0.001 U
10100122	BR-03	131 122nd Street	10/18/2010	0.001 U
10100123	CC-03	14228 Highway 12	10/18/2010	0.001 U
10100124	CC-01	14228 Highway 12	10/18/2010	0.001 U
10100125	CC-02	14228 Highway 12	10/18/2010	0.001 U
10100128	BR-04	131 122nd Street	10/18/2010	0.001 U
10100129	BR-05	131 122nd Street	10/18/2010	0.001 U
10100130	BR-06	131 122nd Street	10/18/2010	0.001 U
10100131	CC-01	14228 Highway 12	10/19/2010	0.001 U
10100132	CC-02	14228 Highway 12	10/19/2010	0.001 U
10100133	CC-03	14228 Highway 12	10/19/2010	<b>0.001</b>
10100134	MA-01	12253 Indio Avenue	10/20/2010	0.002 U
10100135	MA-02	12253 Indio Avenue	10/20/2010	0.002 U
10100136	MA-03	12253 Indio Avenue	10/20/2010	0.002 U
10100137	MB-01	12154 Indio Avenue	10/20/2010	0.001 U
10100138	MB-02	12154 Indio Avenue	10/20/2010	0.001 U
10100139	MB-03	12154 Indio Avenue	10/20/2010	Not Analyzed (Damaged)
10100140	BL-01	Blank	10/20/2010	No Fibers Detected
10100141	BL-02	Blank	10/20/2010	No Fibers Detected
10100142	BL-03	Blank	10/20/2010	No Fibers Detected
10100145	CC-01	14228 Highway 12	10/20/2010	0.001 U
10100147	CC-03	14228 Highway 12	10/20/2010	0.001 U
10100148	CC-01	14228 Highway 12	10/21/2010	0.001 U
10100149	CC-02	14228 Highway 12	10/21/2010	0.001 U
10100150	CC-03	14228 Highway 12	10/21/2010	0.001 U
10100152	FI-02	12474 Indio Avenue	10/21/2010	0.001 U
10100153	FI-03	12474 Indio Avenue	10/21/2010	0.001 U
10100154	JE-01	12742 Jerome Avenue	10/25/2010	0.003 U
10100155	JE-02	12742 Jerome Avenue	10/25/2010	Not Analyzed (Overloaded)

<p align="center"><b>TABLE 8-4</b></p> <p align="center"><b>PERIMETER AIR SAMPLE RESULTS - PHASE CONTRAST MICROSCOPY</b></p> <p align="center"><b>OROFINO ASBESTOS SITE</b></p> <p align="center"><b>OROFINO, IDAHO</b></p>				
<b>EPA Sample ID</b>	<b>Location ID</b>	<b>Property Address</b>	<b>Sample Date</b>	<b>Asbestos and Other Fibers NIOSH Method 7400 PCM (f/cc)</b>
<b>Action Limit (Clearance Limit)</b>				0.01
10100156	JE-03	12742 Jerome Avenue	10/25/2010	0.003 U
10100157	CC-01	14228 Highway 12	10/25/2010	0.001 U
10100158	CC-02	14228 Highway 12	10/25/2010	0.001 U
10100159	CC-03	14228 Highway 12	10/25/2010	0.001 U
10100161	MC-02	12252 Indio Avenue	10/25/2010	0.002 U
10100162	MC-03	12252 Indio Avenue	10/25/2010	0.002 U
10100163	CB-01	12611 Hartford Avenue	10/25/2010	0.001 U
10100164	CB-02	12611 Hartford Avenue	10/25/2010	0.001 U
10100165	CB-03	12611 Hartford Avenue	10/25/2010	0.001 U
10100166	CC-01	14228 Highway 12	10/25/2010	0.001 U
10100167	CC-02	14228 Highway 12	10/25/2010	0.001 U
10100168	CC-03	14228 Highway 12	10/25/2010	<b>0.001</b>
10100169	BL-04	Blank	10/27/2010	No Fibers Detected
10100170	BL-05	Blank	10/27/2010	No Fibers Detected
10100171	BL-06	Blank	10/27/2010	No Fibers Detected
10100172	BL-07	Blank	10/27/2010	No Fibers Detected
10100174	CC-01	14228 Highway 12	10/28/2010	0.001 U
10100175	CC-02	14228 Highway 12	10/28/2010	0.001 U
10100176	CC-03	14228 Highway 12	10/28/2010	0.001 U

Note: A **BOLD** result indicates asbestos and other fibers were detected.

A highlighted cell indicates that the result exceeds the action limit.

Key:

EPA = United States Environmental Protection Agency

f/cc = fibers per cubic centimeter

ID = Identification

n/a = Not Applicable

NIOSH = National Institute for Occupational Safety and Health

PCM = Phase Contrast Microscopy

U = The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

TABLE 8-5					
PERIMETER AIR SAMPLE RESULTS - TRANSMISSION ELECTRON MICROSCOPY					
OROFINO ASBESTOS SITE					
OROFINO, IDAHO					
EPA Sample ID	Location ID	Property Address	Sample Date	Asbestos ISO 10312 TEM Results (s/cc)	
				Total Asbestos Structures	PCM-Equivalent Structures
Action Level (Clearance Limit)				0.01	0.01
10100106	WA-03	12586 Hartford Avenue	10/14/2010	0.024 (Chrysotile)	0.0009 U
10100117	NK-01	256 2nd Street	10/15/2010	0.001 U	0.001 U
10100120	BR-01	131 122nd Street	10/18/2010	0.001 U	0.001 U
10100146	CC-02	14228 Highway 12	10/20/2010	0.0009 U	0.0009 U
10100151	FI-01	12474 Indio Avenue	10/21/2010	Not Analyzed (Damaged)	
10100152	FI-02	12474 Indio Avenue	10/21/2010	0.001 U	0.001 U
10100160	MC-01	12252 Indio Avenue	10/25/2010	0.001 U	0.001 U
10100173	BL-03	Blank	10/27/2010	7.7 U (s/mm <sup>2</sup> )	7.7 U (s/mm <sup>2</sup> )

Note: A **BOLD** result indicates asbestos and other fibers were detected.

A highlighted cell indicates that the result exceeds the action limit.

Key:

AHERA = Asbestos Hazard Emergency Response Act

BL = Blank

EPA = United States Environmental Protection Agency

ID = Identification

ISO = International Organization for Standardization

NA = Not Analyzed

NIOSH = National Institute of Occupational Safety and Health

PCM = Phase Contrast Microscopy

s/cc = structures per cubic centimeter

s/mm<sup>2</sup> = structures per square millimeter

TEM = Transmission Electron Microscopy

U = The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

<b>TABLE 8-6</b>  <b>SOIL SAMPLE RESULTS</b> <b>OROFINO ASBESTOS SITE</b> <b>OROFINO, OREGON</b>					
<b>EPA Sample ID</b>	<b>Location ID</b>	<b>Property Address</b>	<b>Purpose</b>	<b>Sample Date</b>	<b>Asbestos CARB Method 435 PLM Results (%)</b>
10100301	WA-SC-01	12586 Hartford Avenue	Post-Excavation	10/18/2010	0.25 U
10100303	NK-SC-01	256 2nd Street	Post-Excavation	10/15/2010	0.25 U
10100305	BR-SC-01	131 122nd Street	Post-Excavation	10/20/2010	0.25 U
10100307	BR-SC-02	131 122nd Street	Post-Excavation	10/20/2010	0.25 U
10100308	CH-01-SS	12517 Hartford Avenue	Investigation	10/19/2010	0.25 U
10100311	MA-SC-01	12253 Indio Avenue	Post-Excavation	10/20/2010	0.25 U
10100313	MB-SC-01	12154 Indio Avenue	Post-Excavation	10/20/2010	0.25 U
10100315	BA-SC-01	10820 Highway 12	Post-Excavation	10/21/2010	0.25 U
10100317	FI-SC-01	12474 Indio Avenue	Post-Excavation	10/21/2010	0.25 U
10100319	JE-SC-01	12742 Jerome Avenue	Post-Excavation	10/21/2010	0.25 U
10100321	MC-SC-01	12252 Indio Avenue	Post-Excavation	10/21/2010	0.25 U
10100324	CB-SC-01	12611 Hartford Avenue	Post-Excavation	10/25/2010	0.25 U
10100327	HSC-SC-01	129 119th Avenue	Post-Excavation	10/27/2010	0.25 U
10100328	CC-SC-01	14228 Highway 12	Post-Excavation	10/28/2010	0.25 U

A **BOLD** result indicates asbestos was detected.

Key:

CARB = California Air Resources Board

EPA = United States Environmental Protection Agency

ID = Identification

PLM = Polarized Light Microscopy

U = The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

**TABLE 8-7**

**MICROVAC/DUST SAMPLE RESULTS  
OROFINO ASBESTOS SITE  
OROFINO, OREGON**

<b>EPA Sample ID</b>	<b>Location ID</b>	<b>Property Address</b>	<b>Sample Date</b>	<b>Asbestos in Dust ASTM D5755-03 TEM (s/cm<sup>2</sup>)</b>
10JN-0001	BK-01-MV	12451 Hartford Avenue	10/21/2010	2,800 U
10JN-0002	BK-02-MV	12451 Hartford Avenue	10/21/2010	2,800 U
10JN-0003	BK-03-MV	12451 Hartford Avenue	10/21/2010	2,800 U
10JN-0004	BK-04-MV	12451 Hartford Avenue	10/21/2010	2,800 U
10JN-0005	BK-05-MV	12451 Hartford Avenue	10/21/2010	2,800 U
10JN-0006	BK-06-MV	12451 Hartford Avenue	10/21/2010	2,800 U
10JN-0007	AD-01-MV	12359 Hartford Avenue	10/22/2010	66,300 U
10JN-0008	AD-02-MV	12359 Hartford Avenue	10/22/2010	6,600 U
10JN-0009	AD-03-MV	12359 Hartford Avenue	10/22/2010	2,800 U

Note: A **BOLD** result indicates asbestos was detected in the sample

Key:

ASTM = American Society for Testing and Materials

EPA = United States Environmental Protection Agency

ID = Identification

MicroVac = microvacuum

MV = MicroVac

s/cm<sup>2</sup> = structures per cubic centimeter

TEM = Transmission Electron Microscopy

U = The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.

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## 9 Quality Assurance/Quality Control

Quality assurance (QA) / quality control (QC) data are necessary to determine precision and accuracy and to demonstrate the absence of interferences and/or contamination of sampling equipment, glassware and reagents. Specific QC requirements for laboratory analyses are incorporated in the *Contract Laboratory Program Statement of Work for Inorganic Analyses* (EPA 2007). These QC requirements or equivalent requirements found in the analytical methods were followed for analytical work on the project. This section describes the QA/QC measures taken for the project and provides an evaluation of the usability of data presented in this report.

Data from the START-subcontracted commercial laboratory were reviewed and validated by a START chemist. Data qualifiers were applied as necessary according to the following guidance:

- EPA (2010) *Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*.

In the absence of other QC guidance, method- and/or standard operating procedure-specific QC limits were also utilized to apply qualifiers to the data.

### 9.1 Satisfaction of Data Quality Objectives

The following EPA (EPA 2000) guidance document was used to establish data quality objectives (DQOs) for this project:

- *Guidance for the Data Quality Objectives Process* (EPA QA/G-4), EPA/600/R-96/055.

EPA determined that definitive data without error and bias determination would be used for the sampling and analyses conducted during the field activities. The data quality achieved during the field work produced sufficient data that met the DQOs stated in the SSSP (E & E 2010). A detailed discussion of accomplished project objectives is presented in the following sections.

### 9.2 QA/QC Samples

Rinsate blank samples were not required as all samples were collected using dedicated sampling equipment. Eight air blank samples were submitted (approximately one per ten air filter samples) for asbestos analysis. Other QC samples such as spike and laboratory duplicate samples are not required for asbestos analysis.

### 9.3 Project-Specific Data Quality Objectives

The laboratory data were reviewed to ensure that DQOs for the project were met. The following describes the laboratories' abilities to meet project DQOs for precision, accuracy, and completeness and the field team's ability to meet project DQOs for representativeness and comparability. The laboratories and the field team were able to meet DQOs for the project.

### **9.3.1 Precision**

Precision measures the reproducibility of the sampling and analytical methodology. Laboratory and field precision is defined as the relative percent difference (RPD) between duplicate sample analyses. Laboratory duplicate analyses were not performed.

### **9.3.2 Accuracy**

Accuracy indicates the conformity of the measurements to fact. Laboratory accuracy is defined as the surrogate spike percent recovery (%R) or the matrix spike (MS)/MS duplicate (MSD)/blank spike (BS) %Rs for all laboratory analyses. Surrogate, MS, MSD, and BS analyses are not applicable to asbestos analyses.

### **9.3.3 Completeness**

Data completeness is defined as the percentage of usable data (usable data divided by the total possible data). All laboratory data were reviewed for data validation and usability. All sample results were acceptable; therefore, the project DQO for completeness of 90% was met.

### **9.3.4 Representativeness**

Data representativeness expresses the degree to which sample data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point or environmental condition. The number and selection of samples were determined in the field to account accurately for Site variations and sample matrices. The DQO for representativeness was met.

### **9.3.5 Comparability**

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another. Data produced for this Site followed applicable field sampling techniques and specific analytical methodology. The DQO for comparability was met.

## **9.4 Laboratory QA/QC Parameters**

The laboratory data also were reviewed for blank samples. This QA/QC parameter is summarized below.

### **9.4.1 Field Blanks**

The number of blank samples met the frequency criteria. Asbestos fibers were not detected in any of the blank samples.

## **9.5 QA/QC Summary**

No QA/QC issues were identified. The results of the data validation and review indicate the data obtained for the 2010 Orofino Asbestos Site RA achieved EPA and project DQOs.

# 10 Community Relations

Throughout the RA, EPA maintained communications with local government agencies such as the Clearwater County Commissioners, City of Orofino, and the District, along with the public, including residents of affected properties and other members of the community. EPA designated a Community Involvement Coordinator for the Site who engaged with the community regarding the status of the ongoing cleanup activities. EPA accommodated local news media and provided information and interviews when requested. Copies of news articles from the local online news service are included in Appendix F.

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# 11 Health and Safety

The OSC maintained ultimate authority and responsibility for Site safety during the RA. ERRS and START each developed a Site-specific health and safety plan (H&SP). The OSC conducted a general Site safety meeting at the beginning of the 2010 RA to establish the health and safety procedures for the Site. Daily safety meetings were conducted at the beginning of each day of Site work and attended by all personnel present, including the OSC, ERRS, and START. During the daily safety meetings, Site personnel discussed the planned activities for that day and any task-specific health and safety issues. The daily safety meeting also included a review of any health and safety issue from the previous day.

The physical hazards at the Site included uneven terrain and heavy equipment (e.g., skid steers, excavators, water trucks, and trucks). The minimum level of personal protective equipment for the Site was Level D, including safety glasses, hard hat, safety vest, and steel-toed safety shoes.

The chemical hazard associated with the Site was asbestos. EPA established an exclusion zone around each work area in which ACM or asbestos-contaminated soil was handled or disturbed. Site personnel working in this exclusion zone wore Level C personal protective equipment, including respirators with HEPA cartridges. Additionally, ERRS consistently used water from water trucks for dust and airborne asbestos fiber suppression.

The results of air sampling (personal and ambient) and dust monitoring indicated that the Site activities were performed in a manner that was safe for Site personnel, nearby residents, and passers-by.

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# 12 Difficulties Encountered/ Recommendations

Throughout the 2010 Orofino Asbestos Site RA, EPA encountered and overcame the following challenges:

- Proximity to residences and the general public. Almost all of the locations where asbestos-contaminated soil was placed as fill material were on or near residential properties or public areas. EPA performed the removal activities in a manner that was protective of the residents and the general public by the maintenance of strict exclusion zones, close coordination with residents and property owners, and implementation of project-related BMPs.
- Identifying additional asbestos-contaminated soil properties. Before the 2010 RA, EPA did not know how many properties had received the asbestos-contaminated soil as fill material. Thus, one challenge of the RA was identifying new locations while also keeping up with cleanup activities at the known properties. EPA continued to reach out to the community through a variety of ways to identify additional locations where asbestos-contaminated soil was placed as fill material. However, because of access and schedule issues, EPA was not able to complete removal work on all affected properties during the 2010 RA. Thus, EPA began to assess and prioritize individual properties with regard to whether work could be completed in 2010 and whether an interim cover was necessary for those properties scheduled for 2011.
- Waste management from multiple locations. The Orofino Asbestos Site includes multiple work zones with asbestos-contaminated soil. Most of the individual properties were residential with narrow neighborhood streets, and the quantity of waste at each was relatively small. EPA used smaller dump trucks to consolidate the asbestos-contaminated soil from each property at a single staging area at 14228 Highway 12. At this location, the asbestos-contaminated soil was consolidated and then loaded into larger truck-and-pups for transportation to the off-Site landfill. The consolidation point was located on Highway 12 near the outskirts of town, which minimized the need for the larger waste haul trucks to travel through the residential community. Consolidating the waste before transporting off Site also provided more consistent and efficient loads, which reduced shipping costs and time.

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# 13 Summary and Conclusions

From October 13 through and November 3, 2010, EPA performed an RA at the Orofino Asbestos Site in Orofino, Idaho, to mitigate potential human health risks from asbestos exposure. The 2010 RA was performed following EPA investigations in June and August 2010 of asbestos-contaminated soil that had allegedly been placed as fill material at several community properties during water line improvement projects performed for the District in 2008 and 2009.

Cleanup work at each property was performed by excavating the asbestos-contaminated soil and an additional 6 inches of the original soil underneath. The asbestos-contaminated soil and associated pieces of recovered ACP were then sent off Site to the Graham Road landfill in Medical Lake, Washington, which is licensed for asbestos waste. Approximately 2,494 tons of asbestos-contaminated soil and 11.5 cubic yards of ACP were properly disposed off Site.

During removal activities, ERS employed dust control techniques and other BMPs, and START monitored the perimeter of work zones for dust, asbestos, and other fibers to confirm that dust suppression was working. The results of air monitoring and sampling indicated that the dust suppression efforts and BMPs were effective. Following excavation of the asbestos-contaminated soil, confirmation soil samples were collected and analyzed to confirm that the asbestos-contaminated soil had been removed.

EPA had initially identified seven contaminated properties, of which six were planned for the 2010 RA. During the cleanup activities, EPA also continued to investigate the community for properties that had received contaminated material, and a total of 22 affected properties were identified by the end of the 2010 RA. Because of access and schedule issues, EPA could not accommodate all the additional properties during the 2010 RA, so properties that could not be completed were assessed and provided with an interim protective barrier over the asbestos-contaminated soil where warranted. EPA plans to complete the cleanup work in 2011. Of the 22 properties identified, 12 were completed in 2010, while 10 were postponed until 2011. Of these 10 contaminated properties planned for 2011, five received an interim gravel protective barrier.

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# 14 References

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- United States Environmental Protection Agency (EPA), January 2010, *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, OSWER 9240.1-51, EPA 540-R-10-011.
- \_\_\_\_\_, January 2007, *USEPA Contract Laboratory Program Statement of Work for Inorganic Analysis, Multi-Media, Multi-Concentration, ILM05.4*.
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# A Photographs

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OROFINO ASBESTOS SITE - REMOVAL ACTION  
Orofino, Idaho

TDD Number: 10-08-0001

Photographed by: Steve Hall (SH), Rebecca Jarvis (RJ),  
Bryce Robbert (BR), Daniel Wright (DW)



Photo 1 Asbestos-containing pipe (ACP) along Hartford Avenue (right of way).

Direction: Down Date: 10/19/10 Time: 10:02 Taken by: RJ



Photo 2 ACP in vegetation near fill pile.

Direction: Down Date: 10/18/10 Time: 10:32 Taken by: SH



Photo 3 ACP and rocks recovered by property owner from fill pile.

Direction: Down Date: 10/18/10 Time: 10:26 Taken by: SH



Photo 4 Two pieces of ACP on ground at 12252 Indio Avenue.

Direction: Northeast Date: 10/18/10 Time: 10:29 Taken by: SH

OROFINO ASBESTOS SITE - REMOVAL ACTION  
Orofino, Idaho

TDD Number: 10-08-0001

Photographed by: Steve Hall (SH), Rebecca Jarvis (RJ),  
Bryce Robbert (BR), Daniel Wright (DW)



Photo 5 ACP on ground at 131 122nd Street.

Direction: West Date: 10/18/10 Time: 08:12 Taken by: SH



Photo 6 Preparation of work zone around contaminated fill area at 129 119th Avenue.

Direction: West Date: 10/26/10 Time: 07:52 Taken by: DW



Photo 7 12474 Indio Avenue during preparation for removal work.

Direction: West Date: 10/21/10 Time: 11:42 Taken by: DW



Photo 8 Dust suppression during excavation of contaminated fill.

Direction: South Date: 10/14/10 Time: 14:35 Taken by: DW

OROFINO ASBESTOS SITE - REMOVAL ACTION  
Orofino, Idaho

TDD Number: 10-08-0001  
Photographed by: Steve Hall (SH), Rebecca Jarvis (RJ),  
Bryce Robbert (BR), Daniel Wright (DW)



Photo 9 ERRS prepares contaminated fill stockpile at 14228 Highway 12 and recovers ACP.

Direction: Southwest Date: 10/14/10 Time: 11:32 Taken by: SH



Photo 10 Overview of 14228 Highway 12 staging location; ERRS loads contaminated material into truck and pup.

Direction: Southeast Date: 10/18/10 Time: 09:02 Taken by: SH



Photo 11 Loading truck and pup.

Direction: West Date: 10/18/10 Time: 08:28 Taken by: SH



Photo 12 Dust suppression.

Direction: Southwest Date: 10/26/10 Time: 12:41 Taken by: DW

OROFINO ASBESTOS SITE - REMOVAL ACTION  
Orofino, Idaho



Photo 13 Air sampling location (WA-02) at 12586 Hartford Avenue.

Direction: East Date: 10/14/10 Time: 14:37 Taken by: DW



Photo 15 Loading truck with contaminated fill at 256 2nd Street.

Direction: North Date: 10/15/10 Time: 14:29 Taken by: SH

TDD Number: 10-08-0001

Photographed by: Steve Hall (SH), Rebecca Jarvis (RJ),  
Bryce Robbert (BR), Daniel Wright (DW)



Photo 14 Air sampling location (WA01) at 12586 Hartford Avenue.

Direction: South Date: 10/14/10 Time: 12:05 Taken by: SH



Photo 16 Contaminated material is covered with plastic in truck and pup beds.

Direction: North Date: 10/18/10 Time: 09:50 Taken by: SH

OROFINO ASBESTOS SITE - REMOVAL ACTION  
Orofino, Idaho



Photo 17 START collects soil composite sample following excavation of contaminated fill at 12586 Hartford Avenue.

Direction: West Date: 10/15/10 Time: 10:31 Taken by: DW



Photo 19 Sections of ACP recovered from 14228 Highway 12 on October 19, 21, and 22 (137 ln ft).

Direction: Down Date: 10/22/10 Time: 14:15 Taken by: SH

TDD Number: 10-08-0001

Photographed by: Steve Hall (SH), Rebecca Jarvis (RJ),  
Bryce Robbert (BR), Daniel Wright (DW)



Photo 18 START collects soil composite sample following excavation of contaminated fill at 256 2nd Street.

Direction: West Date: 10/15/10 Time: 15:24 Taken by: DW



Photo 20 ERRS collects a bulk sample from recovered section of ACP.

Direction: Down Date: 10/22/10 Time: 15:55 Taken by: SH

OROFINO ASBESTOS SITE - REMOVAL ACTION  
Orofino, Idaho

TDD Number: 10-08-0001

Photographed by: Steve Hall (SH), Rebecca Jarvis (RJ),  
Bryce Robbert (BR), Daniel Wright (DW)



Photo 21 ERRS places recovered ACP into asbestos waste disposal bags.

Direction: Down Date: 10/22/10 Time: 16:42 Taken by: SH



Photo 22 ACP in asbestos waste disposal bags for off-site disposal.

Direction: Down Date: 10/20/10 Time: 16:14 Taken by: BR



Photo 23 START collects MicroVac dust sample BK-01-MV.

Direction: North Date: 10/21/10 Time: 11:42 Taken by: RJ



Photo 24 MicroVac dust sample location BK-01-MV after sampling.

Direction: East Date: 10/21/10 Time: 11:46 Taken by: RJ

OROFINO ASBESTOS SITE - REMOVAL ACTION  
Orofino, Idaho

TDD Number: 10-08-0001

Photographed by: Steve Hall (SH), Rebecca Jarvis (RJ),  
Bryce Robbert (BR), Daniel Wright (DW)



Photo 25 Interim gravel cover at 291 118th Street.

*Direction: West      Date: 10/26/10      Time: 13:00      Taken by: DW*



Photo 26 Hydroseed over top soil backfill at 131 122nd Street.

*Direction: West      Date: 11/2/10      Time: 13:52      Taken by: DW*



Photo 27 Hydroseed over top soil backfill at 12252 Indio Avenue.

*Direction: South      Date: 11/2/10      Time: 13:53      Taken by: DW*

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## **B Individual Property Figures**

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Source: Google Earth Pro 2011.



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**OROFINO ASBESTOS SITE**  
Orofino, Idaho



**Figure B-1**  
**12976 HIGHWAY 12**  
**INTERIM COVER AREA**

Date:  
5/10/11

Drawn by:  
AES

10:START-3\10080001\fig B-1

Source: Google Earth Pro 2011.



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Orofino, Idaho



**Figure B-2**  
**12586 HARTFORD AVENUE**  
**EXCAVATION/BACKFILL AREA**

Date:  
4/19/11

Drawn by:  
AES

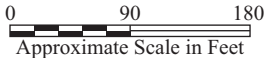
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Source: Google Earth Pro 2011.



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**OROFINO ASBESTOS SITE**  
Orofino, Idaho



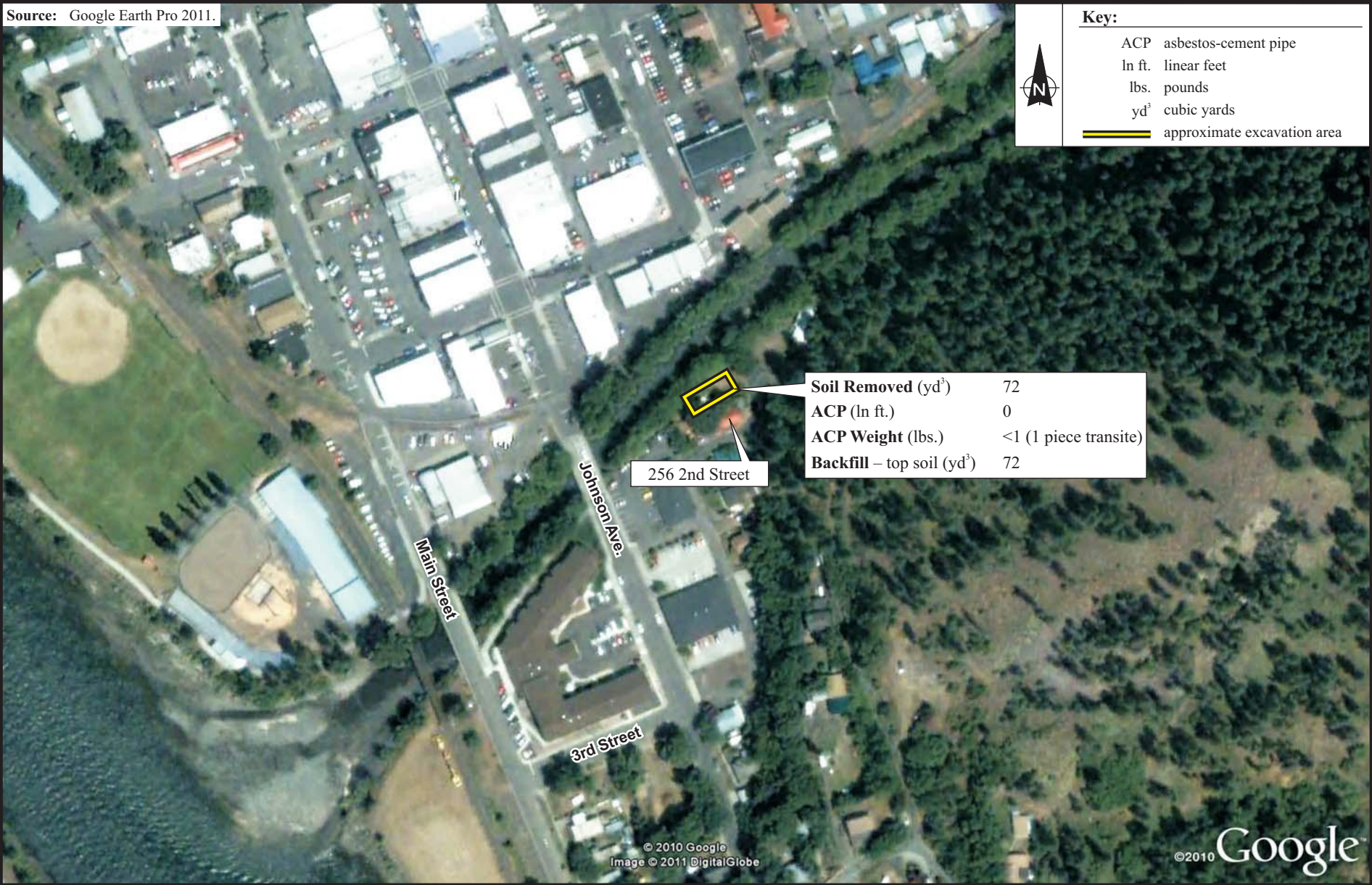
**Figure B-3**  
**14228 HIGHWAY 12**  
**EXCAVATION/BACKFILL AREA**

Date:  
4/18/11

Drawn by:  
AES

10:START-3\10080001\fig B-3

Source: Google Earth Pro 2011.



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Orofino, Idaho



**Figure B-4**  
**256 2nd STREET**  
**EXCAVATION/BACKFILL AREA**

Date:  
4/18/11



Drawn by:  
AES

10:START-3\10080001\fig B-4

Source: Google Earth Pro 2011.



B-7

 <b>ecology and environment, inc.</b> Global Specialists in the Environment Seattle, Washington	<b>OROFINO ASBESTOS SITE</b> Orofino, Idaho		<b>Figure B-5</b> <b>131 122nd STREET</b> <b>EXCAVATION/BACKFILL AREA</b>		
	 Approximate Scale in Feet		Date: 4/18/11	Drawn by: AES	10:START-3\10080001\fig B-5

Source: Google Earth Pro 2011.



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**OROFINO ASBESTOS SITE**  
Orofino, Idaho

0 135 270  
Approximate Scale in Feet

**Figure B-6**  
**291 118th STREET**  
**INTERIM COVER AREA**


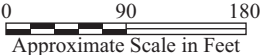
Date:  
5/10/11

Drawn by:  
AES

10:START-3\10080001\fig B-6

Source: Google Earth Pro 2011.



 <b>ecology and environment, inc.</b> Global Specialists in the Environment Seattle, Washington	OROFINO ASBESTOS SITE Orofino, Idaho		Figure B-7 4753 TRANSFER STATION ROAD INTERIM COVER AREA		
	 Approximate Scale in Feet		Date: 5/10/11	Drawn by: AES	10:START-3\10080001\fig B-7

Source: Google Earth Pro 2011.



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Orofino, Idaho

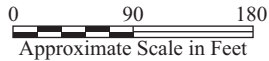


Figure B-8

**12140 HARTFORD AVENUE**  
**INTERIM COVER AREA**

Date:  
5/10/11

Drawn by:  
AES

10:START-3\10080001\fig B-8

Source: Google Earth Pro 2011.



**Key:**

 approximate contaminated fill area



B-11



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0 90 180  
Approximate Scale in Feet

**Figure B-9**

**12170 HARTFORD AVENUE**  
**APPROXIMATE CONTAMINATED FILL AREA**

Date:  
4/18/11

Drawn by:  
AES

10:START-3\10080001\fig B-9

Source: Google Earth Pro 2011.



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0 90 180  
Approximate Scale in Feet

Figure B-10

12453 HARTFORD AVENUE  
APPROXIMATE CONTAMINATED FILL AREA

Date:  
4/18/11

Drawn by:  
AES

10:START-3\10080001\fig B-10

Source: Google Earth Pro 2011.



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**Figure B-11**  
**12517 HARTFORD AVENUE**  
**INTERIM COVER AREA**

Date: 5/10/11	Drawn by: AES	10:START-3\10080001\fig B-11
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Source: Google Earth Pro 2011.



B-14

 <b>ecology and environment, inc.</b> Global Specialists in the Environment Seattle, Washington	<b>OROFINO ASBESTOS SITE</b> Orofino, Idaho	<b>Figure B-12</b> <b>12611 HARTFORD AVENUE</b> <b>EXCAVATION/BACKFILL AREA</b>		
	 Approximate Scale in Feet	Date: 5/10/11	Drawn by: AES	10:START-3\10080001\fig B-12

Source: Google Earth Pro 2011.



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0 90 180  
 Approximate Scale in Feet

Figure B-13

12719 HARTFORD AVENUE  
 APPROXIMATE CONTAMINATED FILL AREA



Date:  
 4/21/11

Drawn by:  
 AES

10:START-3\10080001\fig B-13

Source: Google Earth Pro 2011.



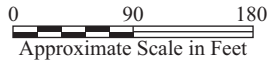
 <b>ecology and environment, inc.</b> Global Specialists in the Environment Seattle, Washington	OROFINO ASBESTOS SITE Orofino, Idaho		Figure B-14 12742 HARTFORD AVENUE APPROXIMATE CONTAMINATED FILL AREA		
	 Approximate Scale in Feet		Date: 4/21/11	Drawn by: AES	10:START-3\10080001\fig B-14

Source: Google Earth Pro 2011.



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**Figure B-15**  
**12154 INDIO AVENUE**  
**EXCAVATION/BACKFILL AREA**

Date:  
4/18/11

Drawn by:  
AES

10:START-3\10080001\fig B-15

Source: Google Earth Pro 2011.



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Orofino, Idaho

0 90 180  
Approximate Scale in Feet

**Figure B-16**  
**12252 INDIO AVENUE**  
**EXCAVATION/BACKFILL AREA**

Date:  
4/18/11


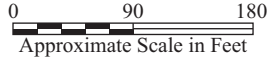
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10:START-3\10080001\fig B-16

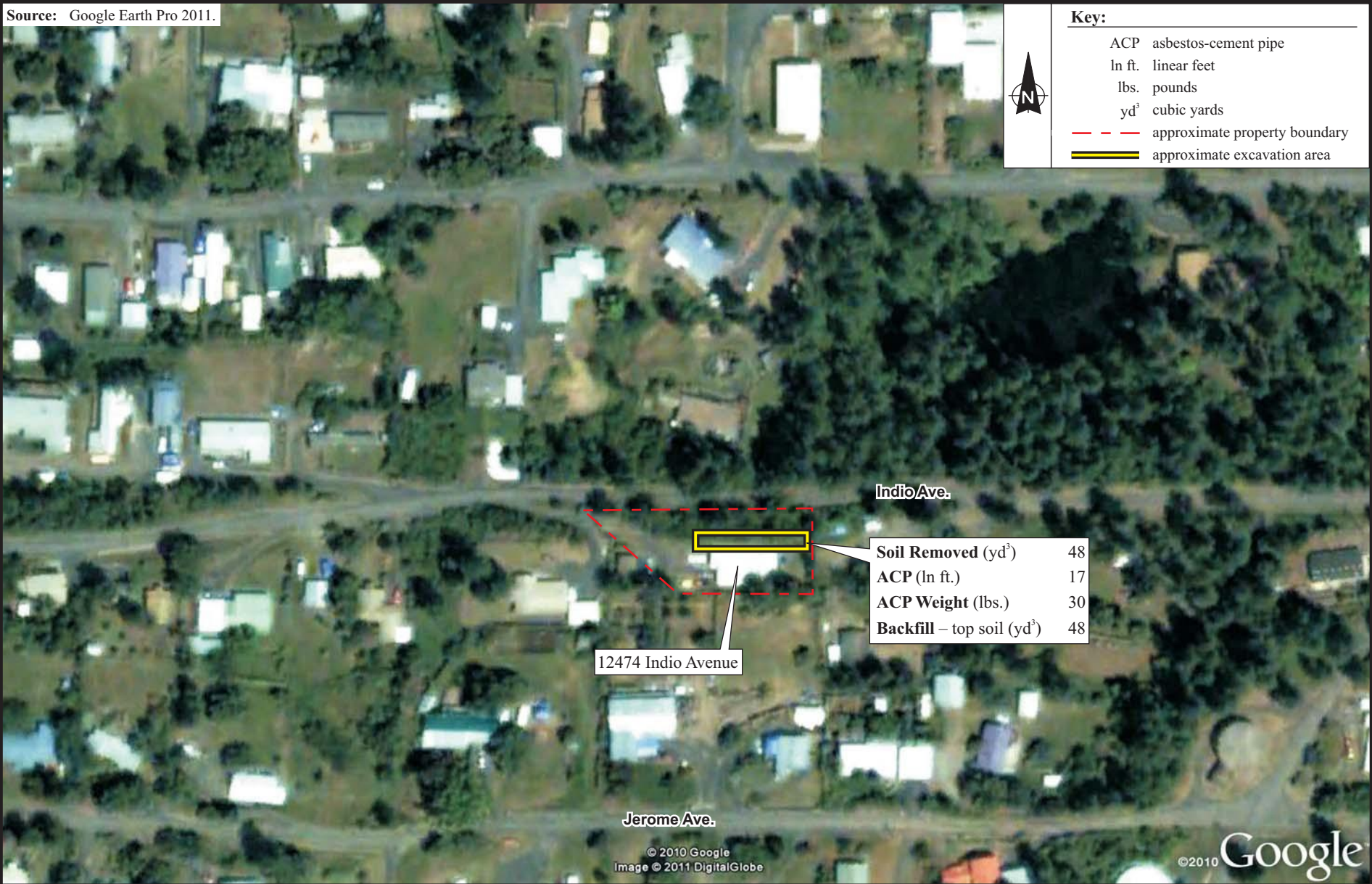
Source: Google Earth Pro 2011.



B-19

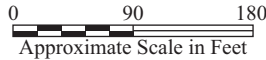
 <b>ecology and environment, inc.</b> Global Specialists in the Environment Seattle, Washington	<b>OROFINO ASBESTOS SITE</b> Orofino, Idaho		<b>Figure B-17</b> <b>12253 INDIO AVENUE</b> <b>EXCAVATION/BACKFILL AREA</b>	
	 Approximate Scale in Feet		Date: 5/10/11	Drawn by: AES
			10:START-3\10080001\fig B-17	

Source: Google Earth Pro 2011.



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**Figure B-18**  
**12474 INDIO AVENUE**  
**EXCAVATION/BACKFILL AREA**

Date:  
4/18/11



Drawn by:  
AES

10:START-3\10080001\fig B-18

Source: Google Earth Pro 2011.



B-21

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	 Approximate Scale in Feet		Date: 4/18/11	Drawn by: AES	10:START-3\10080001\fig B-19

Source: Google Earth Pro 2011.



Key:	
ACP	asbestos-cement pipe
ln ft.	linear feet
lbs.	pounds
yd³	cubic yards
---	approximate property boundary
---	approximate excavation area

Soil Removed (yd³)	168
ACP (ln ft.)	34
ACP Weight (lbs.)	283
Backfill - 1" gravel (yd³)	192



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**OROFINO ASBESTOS SITE**  
Orofino, Idaho



**Figure B-20**  
**129 119th AVENUE**  
**EXCAVATION/BACKFILL AREA**

Date: 4/18/11	Drawn by: AES	10:START-3\10080001\fig B-20
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Source: Google Earth Pro 2011.



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OROFINO ASBESTOS SITE  
Orofino, Idaho

0 90 180  
Approximate Scale in Feet

Figure B-21  
130 122nd STREET  
APPROXIMATE CONTAMINATED FILL AREA

Date:  
5/10/11



Drawn by:  
AES

10:START-3\10080001\fig B-21

Source: Google Earth Pro 2011.



B-24

 <b>ecology and environment, inc.</b> Global Specialists in the Environment Seattle, Washington	<b>OROFINO ASBESTOS SITE</b> Orofino, Idaho		<b>Figure B-22</b> <b>10820 HIGHWAY 12</b> <b>EXCAVATION AREA</b>		
	 Approximate Scale in Feet		Date: 4/21/11	Drawn by: AES	10:START-3\10080001\fig B-22

# **C Individual Property Reports**

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## **Property Data Sheet**

**Property Address:** 12976 Highway 12

**Property Figure:** B-1

**Description:**

The property owner reported receiving approximately 10,000 cubic yards (yd<sup>3</sup>) of the excavated material as fill on this empty lot. Asbestos testing results from pieces of asbestos-containing pipe (ACP) collected from this property indicated 8, 9, and 9% chrysotile asbestos.

An interim cover of clean top soil, approximately 4-6 inches high, was placed over the fill material as interim cover until cleanup activities can resume in 2011. The interim cover was placed over the contaminated fill by the responsible party during the week of August 30, 2010, pursuant to an Administrative Settlement Agreement and Order on Consent with EPA.

Asbestos (percent and asbestiform): 8, 9, and 9% Chrysotile

Length of asbestos-cement pipe recovered: not applicable

Weight of recovered asbestos-cement pipe: not applicable

## **Property Data Sheet**

**Property Address:** 12586 Hartford Avenue

**Property Figure:** B-2

### **Description:**

The property owner reported receiving approximately 150 cubic yards (yd<sup>3</sup>) of the excavated material as fill in his back yard. Asbestos testing results from pieces of asbestos-containing pipe (ACP) collected from this property indicated 16.68% and 30% chrysotile asbestos. A soil sample collected from the contaminated fill was non-detect for asbestos.

Cleanup started on October 14, 2010 and was completed on October 19, 2010. Approximately 132 yd<sup>3</sup> of asbestos contaminated fill material was removed and replaced with 72 yd<sup>3</sup> of 1-inch gravel.

Perimeter air monitoring was conducted during cleanup activities to assess the effectiveness of best management practices. Data from air sampling pumps, including two personal monitoring samples for phase contrast microscopy (PCM) analysis and five perimeter samples for PCM analysis indicated, that asbestos or other fibers were not released to the environment during cleanup activities. One sample for transmission electron microscopy (TEM) analysis contained asbestos fibers but did not contain any PCM-equivalent asbestos fibers, which are directly comparable to the Occupational Safety and Health Administration Permissible Exposure Limit. A soil composite confirmation sample was non-detect for asbestos.

Asbestos (percent and asbestiform): 16.68 and 30% Chrysotile

Length of asbestos-cement pipe recovered: 46.90 feet

Weight of recovered asbestos-cement pipe: 197 pounds

## Property Data Sheet

**Property Address:** 14228 Highway 12

**Property Figure:** B-3

**Description:**

The property owner reported receiving approximately 1,300 cubic yards (yd<sup>3</sup>) of the excavated material to be used as fill. Asbestos testing results from pieces of asbestos-containing pipe (ACP) collected from this property indicated 7 and 20% chrysotile asbestos. A soil sample collected from the contaminated fill was non-detect for asbestos.

14228 Highway 12 was used as a staging location for asbestos-contaminated fill material removed from other properties beginning on October 14, 2010. After consolidation, waste was loaded into truck-and-pups and transported to the off-site disposal site through November 2, 2010. Approximately 1,984 yd<sup>3</sup> of asbestos-contaminated fill material was removed from this property and replaced with 360 yd<sup>3</sup> of 1-inch gravel.

Perimeter air monitoring was conducted during cleanup activities to assess the effectiveness of best management practices. Data from air sampling pumps, including four personal monitoring samples for phase contrast microscopy (PCM) analysis, 26 perimeter samples for PCM analysis, and 1 sample for transmission electron microscopy (TEM) analysis, indicated that asbestos fibers were not released to the environment above regulatory limits during cleanup activities. A soil composite confirmation sample was non-detect for asbestos.

Asbestos (percent and asbestiform): 7 and 20% Chrysotile

Length of asbestos-cement pipe recovered: 222.2 feet

Weight of recovered asbestos-cement pipe: 1069 pounds

## Property Data Sheet

**Property Address:** 256 2<sup>nd</sup> Street

**Property Figure:** B-4

**Description:**

The property owner reported receiving approximately 100 cubic yards (yd<sup>3</sup>) of excavated material in piles in the back yard. Asbestos testing results from a sample of cement-asbestos board (transite) collected from this property indicated 3% chrysotile asbestos.

Cleanup started and was completed on October 15, 2010. Approximately 72 yd<sup>3</sup> of asbestos-contaminated fill material was removed and was replaced with 72 yd<sup>3</sup> of top soil which was hydro-seeded.

Perimeter air monitoring was conducted during cleanup activities to assess the effectiveness of best management practices. Data from air sampling pumps, including two perimeter samples for phase contrast microscopy (PCM) analysis and one sample for transmission electron microscopy (TEM) analysis, indicated that asbestos fibers were not released to the environment during cleanup activities. A soil composite confirmation sample was non-detect for asbestos.

Asbestos (percent and asbestiform): 3% Chrysotile

Length of asbestos-cement pipe recovered: 0 feet

Weight of recovered asbestos-cement pipe: 0 (less than 1 pound transite)

## Property Data Sheet

**Property Address:** 131 122<sup>nd</sup> Street

**Property Figure:** B-5

### **Description:**

The property owner reported receiving the excavated material as fill in the front yard. Asbestos testing results from samples of asbestos-containing pipe (ACP) collected from this property indicated 20, 30, and 30% chrysotile asbestos. A soil sample collected from the fill material contained 0.25% chrysotile asbestos.

Cleanup started on October 18, 2010, and was completed on October 22, 2010. Approximately 144 cubic yards (yd<sup>3</sup>) of asbestos-contaminated fill material was removed and replaced with 72 yd<sup>3</sup> of top soil which was hydro-seeded.

Perimeter air monitoring was conducted during cleanup activities to assess the effectiveness of best management practices. Data from air sampling pumps, including five perimeter samples for phase contrast microscopy (PCM) analysis and 1 sample for transmission electron microscopy (TEM) analysis, indicated that asbestos fibers were not released to the environment during cleanup activities. Two soil composite confirmation samples (one each from two discrete excavation areas) were non-detect for asbestos.

Asbestos (percent and asbestiform): 20, 30, and 30% Chrysotile

Length of asbestos-cement pipe recovered: 69.75 feet

Weight of recovered asbestos-cement pipe: 387 pounds

## Property Data Sheet

**Property Address:** 291 118<sup>th</sup> Street

**Property Figure:** B-6

**Description:**

The property owner reported receiving approximately 10,000 cubic yards (yd<sup>3</sup>) of the excavated material as fill material to extend a parking lot. Asbestos testing results from a piece of asbestos-containing pipe (ACP) collected from this property indicated 16.82% chrysotile asbestos. A soil sample collected from the contaminated fill contained 0.75% chrysotile asbestos.

An interim cover of 1-inch gravel, approximately 6 inches thick, was placed over the fill material until clean up activities resume in 2011. Backfill started October 26, 2010, and was completed on October 28, 2010. Approximately 624 yd<sup>3</sup> of 1-inch gravel was used as the interim cover.

Asbestos (percent and asbestiform): 16.82% Chrysotile

Length of asbestos-cement pipe recovered: not applicable

Weight of recovered asbestos-cement pipe: not applicable

## Property Data Sheet

**Property Address:** 4753 Transfer Station Road

**Property Figure:** B-7

**Description:**

The property owner reported receiving approximately 8,000 cubic yards (yd<sup>3</sup>) of the excavated material as fill. No samples were collected as EPA did not observe any asbestos-containing pipe (ACP) on the ground in the fill area.

An interim cover of 1-inch gravel, approximately 6 inches thick, was placed over the fill material until cleanup activities can resume in 2011. Backfill started October 26, 2010, and was completed on October 28, 2010. Approximately 204 yd<sup>3</sup> of 1-inch gravel was used as the interim cover.

Asbestos (percent and asbestiform): not applicable

Length of asbestos-cement pipe recovered: not applicable

Weight of recovered asbestos-cement pipe: not applicable

## **Property Data Sheet**

**Property Address:** 12140 Hartford Avenue

**Property Figure:** B-8

**Description:**

The property owner reported receiving approximately 200 cubic yards (yd<sup>3</sup>) of the excavated material to be used as fill to extend a parking lot.

An interim cover of 1-inch gravel, approximately 6 inches thick, was placed over the fill material until cleanup activities resume in 2011. Backfilling was started on October 26, 2010, and was completed on November 1, 2010. Approximately 180 yd<sup>3</sup> of 1-inch gravel was used as the interim cover.

Asbestos (percent and asbestiform): none sampled

Length of asbestos-cement pipe recovered: not applicable

Weight of recovered asbestos-cement pipe: not applicable

## **Property Data Sheet**

**Property Address:** 12170 Hartford Avenue

**Property Figure:** B-9

**Description:**

The property owner reported receiving approximately 100 cubic yards (yd<sup>3</sup>) of the excavated material as fill in the front yard.

EPA did not place an interim cover over the fill material as the property owner had already seeded the material. This property is scheduled to be part of the cleanup activities in 2011.

Asbestos (percent and asbestiform): none sampled

Length of asbestos-cement pipe recovered: not applicable

Weight of recovered asbestos-cement pipe: not applicable

## **Property Data Sheet**

**Property Address:** 12453 Hartford Avenue

**Property Figure:** B-10

**Description:**

The owner of this vacant property reported receiving approximately 40 cubic yards (yd<sup>3</sup>) of the excavated material in three large piles on the property.

No interim cover was placed over the fill material, and the property has been scheduled for cleanup activities in 2011.

Asbestos (percent and asbestiform): no sample

Length of asbestos-cement pipe recovered: not applicable

Weight of recovered asbestos-cement pipe: not applicable

## **Property Data Sheet**

**Property Address:** 12517 Hartford Avenue

**Property Figure:** B-11

### **Description:**

The property owner reported receiving approximately 510 cubic yards (yd<sup>3</sup>) of the excavated material as fill to extend a parking lot. Asbestos testing results from a piece of asbestos-containing pipe (ACP) collected from this property indicated 25% chrysotile asbestos and 5% crocidolite asbestos. A soil sample from near the ACP sample was non-detect for asbestos.

An interim cover of 1-inch gravel, approximately 6 inches thick, was placed over the fill material until cleanup activities resume in 2011. Backfill started on October 26, 2010, and was completed on October 29, 2010. Approximately 90 yd<sup>3</sup> of 1-inch gravel was used as the interim cover.

Asbestos (percent and asbestiform): 25% Chrysotile and 5% Crocidolite

Length of asbestos-cement pipe recovered: not applicable

Weight of recovered asbestos-cement pipe: not applicable

## Property Data Sheet

**Property Address:** 12611 Hartford Avenue

**Property Figure:** B-12

**Description:**

The property owners reported receiving the excavated material as fill in the driveway but were not sure of the quantity.

Cleanup started on October 25, 2010, and was completed on October 29, 2010. Approximately 139.5 cubic yards (yd<sup>3</sup>) of asbestos-contaminated fill material was excavated and replaced with 12 yd<sup>3</sup> of top soil which was hydro-seeded.

Perimeter air monitoring was conducted during cleanup activities to assess the effectiveness of best management practices. Data from air sampling pumps, including three perimeter samples for phase contrast microscopy (PCM) analysis, indicated that asbestos fibers were not released to the environment during cleanup activities. A soil composite confirmation sample was non-detect for asbestos.

Asbestos (percent and asbestiform): no sample

Length of asbestos-cement pipe recovered: 0 feet

Weight of recovered asbestos-cement pipe: 0 pounds

## **Property Data Sheet**

**Property Address:** 12719 Hartford Avenue

**Property Figure:** B-13

**Description:**

The property owner reported receiving an unknown amount of the excavated material as fill material on the property.

At this time, no interim cover has been placed over the fill material, and the property has been scheduled for cleanup activities in 2011.

Asbestos (percent and asbestiform): no sample

Length of asbestos-cement pipe recovered: not applicable

Weight of recovered asbestos-cement pipe: not applicable

## **Property Data Sheet**

**Property Address:** 12742 Hartford Avenue

**Property Figure:** B-14

**Description:**

The property owner reported receiving an unknown amount of excavated material which was placed as fill in the front yard.

EPA did not obtain access to perform cleanup work on this property in 2010, and no interim cover was placed over the fill material. This property is scheduled for cleanup in 2011.

Asbestos (percent and asbestiform): no sample

Length of asbestos-cement pipe recovered: not applicable

Weight of recovered asbestos-cement pipe: not applicable

## **Property Data Sheet**

**Property Address:** 12154 Indio Avenue

**Property Figure:** B-15

**Description:**

The property owner reported receiving approximately 230 cubic yards (yd<sup>3</sup>) of excavated material that was placed as fill in the back yard. Asbestos testing results from a piece of asbestos-containing pipe (ACP) collected from this property indicated 20% chrysotile asbestos.

Cleanup started on October 20, 2010, and was completed on October 27, 2010. Approximately 132 yd<sup>3</sup> of asbestos-contaminated fill material was removed and replaced with 60 yd<sup>3</sup> of 1-inch gravel.

Perimeter air monitoring was conducted during cleanup activities to assess the effectiveness of best management practices. Data from air sampling pumps, including two personal monitoring samples for phase contrast microscopy (PCM) analysis and two perimeter samples for PCM analysis, indicated that asbestos fibers were not released to the environment during cleanup activities. A soil composite confirmation sample was non-detect for asbestos.

Asbestos (percent and asbestiform): 20% Chrysotile

Length of asbestos-cement pipe recovered: 24 feet

Weight of recovered asbestos-cement pipe: 197 pounds

## **Property Data Sheet**

**Property Address:** 12252 Indio Avenue

**Property Figure:** B-16

**Description:**

The property owner reported receiving approximately 24 cubic yards (yd<sup>3</sup>) of excavated material that was placed as fill in his front yard. Asbestos testing results from a piece of asbestos-containing pipe (ACP) collected from this property indicated 20% chrysotile asbestos.

Cleanup started on October 22, 2010, and was completed on October 27, 2010. Approximately 36 yd<sup>3</sup> of asbestos-contaminated fill material was removed and replaced with 12 yd<sup>3</sup> of top soil, which was hydro-seeded.

Perimeter air monitoring was conducted during cleanup activities to assess the effectiveness of best management practices. Data from air sampling pumps, including two perimeter samples for phase contrast microscopy (PCM) analysis and one sample for transmission electron microscopy (TEM) analysis, indicated that asbestos fibers were not released to the environment during cleanup activities. A soil composite confirmation sample was non-detect for asbestos.

Asbestos (percent and asbestiform): 20% Chrysotile

Length of asbestos-cement pipe recovered: 5 feet

Weight of recovered asbestos-cement pipe: 40 pounds

## **Property Data Sheet**

**Property Address:** 12253 Indio Avenue

**Property Figure:** B-17

### **Description:**

The property owner reported receiving approximately 40 cubic yards (yd<sup>3</sup>) of excavated material as fill in the front yard. Asbestos testing results from a piece of asbestos-containing pipe (ACP) collected from this property indicated 20% chrysotile asbestos.

Cleanup started on October 20, 2010, and was completed on October 27, 2010. Approximately 36 yd<sup>3</sup> of asbestos-contaminated fill material was removed and replaced with 24 yd<sup>3</sup> of 1-inch gravel.

Perimeter air monitoring was conducted during cleanup activities to assess the effectiveness of best management practices. Data from air sampling pumps, including three perimeter samples for phase contrast microscopy (PCM) analysis, indicated that asbestos fibers were not released to the environment during cleanup activities. A soil composite confirmation sample was non-detect for asbestos.

Asbestos (percent and asbestiform): 20% Chrysotile

Length of asbestos-cement pipe recovered: 12 feet

Weight of recovered asbestos-cement pipe: 76 pounds

## **Property Data Sheet**

**Property Address:** 12474 Indio Avenue

**Property Figure:** B-18

**Description:**

The property owner reported receiving approximately 50 cubic yards (yd<sup>3</sup>) of excavated material as fill in the front yard. Asbestos testing results from a piece of asbestos-containing pipe (ACP) collected from this property indicated 20% chrysotile asbestos.

Cleanup started on October 21, 2010, and was completed on October 28, 2010. Approximately 48 yd<sup>3</sup> of asbestos-contaminated fill material was removed and replaced with 48 yd<sup>3</sup> of top soil which was hydro-seeded.

Perimeter air monitoring was conducted during cleanup activities to assess the effectiveness of best management practices. Data from air sampling pumps, including two perimeter samples for phase contrast microscopy (PCM) analysis and one sample for transmission electron microscopy (TEM) analysis, indicated that asbestos fibers were not released to the environment during cleanup activities. A soil composite confirmation sample was non-detect for asbestos.

Asbestos (percent and asbestiform): 20% Chrysotile

Length of asbestos-cement pipe recovered: 17 feet

Weight of recovered asbestos-cement pipe: 30 pounds

## Property Data Sheet

**Property Address:** 12742 Jerome Avenue

**Property Figure:** B-19

**Description:**

The property owner reported receiving approximately 45 cubic yards (yd<sup>3</sup>) of excavated material as fill in the front yard.

Cleanup started on October 22, 2010, and was completed on October 27, 2010. Approximately 24 yd<sup>3</sup> of asbestos-contaminated fill material was removed and replaced with 18 yd<sup>3</sup> of topsoil, which was hydro-seeded.

Perimeter air monitoring was conducted during cleanup activities to assess the effectiveness of best management practices. Data from air sampling pumps, including two perimeter samples for phase contrast microscopy (PCM) analysis, indicated that asbestos fibers were not released to the environment during cleanup activities. A soil composite confirmation sample was non-detect for asbestos.

Asbestos (percent and asbestiform): no sample

Length of asbestos-cement pipe recovered: 0 feet

Weight of recovered asbestos-cement pipe: 0 pounds

## Property Data Sheet

**Property Address:** 129 119<sup>th</sup> Avenue

**Property Figure:** B-20

**Description:**

The property owner reported receiving approximately 89 cubic yards (yd<sup>3</sup>) of excavated material as fill in the yard. Asbestos testing results from a piece of asbestos-containing pipe (ACP) collected from this property indicated 20% chrysotile asbestos and 3% crocidolite asbestos.

Cleanup started on October 25, 2010, and was completed on November 1, 2010. Approximately 168 yd<sup>3</sup> of asbestos-contaminated fill material was removed and replaced with 192 yd<sup>3</sup> of 1-inch gravel.

Perimeter air monitoring was not conducted during cleanup activities due to rainfall. A soil composite confirmation sample was non-detect for asbestos.

Asbestos (percent and asbestiform): 20% Chrysotile and 3% Crocidolite

Length of asbestos-cement pipe recovered: 34 feet

Weight of recovered asbestos-cement pipe: 283 pounds

### **Property Data Sheet**

**Property Address:** 130 122<sup>nd</sup> Street

**Property Figure:** B-21

**Description:**

An unknown quantity of excavated material was observed in piles on this vacant lot.

EPA was unable to locate the property owners for this property during the 2010 removal action, so no cleanup work was performed. This property is scheduled for cleanup in 2011.

Asbestos (percent and asbestiform): no sample

Length of asbestos-cement pipe recovered: not applicable

Weight of recovered asbestos-cement pipe: not applicable

## **Property Data Sheet**

**Property Address:** 10820 Highway 12

**Property Figure:** B-22

**Description:**

The property owner reported receiving approximately 12 cubic yards (yd<sup>3</sup>) of excavated material in a pile on this property. Asbestos testing results from a piece of asbestos-containing pipe (ACP) collected from this property indicated 20% chrysotile asbestos.

Cleanup started and was completed on October 21, 2010. Approximately 12 yd<sup>3</sup> of asbestos-contaminated fill material was removed. Backfill was not provided as only contaminated fill was removed.

Air monitoring was not conducted during cleanup activities because of the small quantity of contaminated fill. A soil composite confirmation sample was non-detect for asbestos.

Asbestos (percent and asbestiform): 8, 9, and 9% Chrysotile

Length of asbestos-cement pipe recovered: 4 feet

Weight of recovered asbestos-cement pipe: 15 pounds

# D Waste Disposal Records

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Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 366962

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/18/2010 Vehicle# ED Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver ED  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/18/2010 10:45:28	Scale1	JSCHROD1			102200 lb
Out	10/18/2010 11:07:39	Scale1	JSCHROD1		Tare	40140 lb
					Net	62060 lb
Comments					Tons	31.03

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		31.03	Tons	18.00 ✓	20.11	\$558.54	Idaho
2 AF125-Profile Appr 100		1	Each	25.00		\$25.00	Idaho
3 ENVFEE\$2.34-ENV FE 100		31.03	Tons	2.34 ✓		\$72.61	Idaho
4 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Idaho
5 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Idaho

*not  
paying  
not in  
bid*

Total Tax  
Total Ticket \$1600.15

*not in  
bid*

1600.15



Operator's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 366972

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/18/2010 Vehicle# PAT Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver PAT  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/18/2010 11:10:45	Scale1	JSCHRODI			104840 lb
Out	10/18/2010 11:27:56	Scale1	JSCHRODI		Tare	40100 lb
					Net	64740 lb
Comments					Tons	32.37

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dth- 100		32.37	Tons	18.00	20.98	\$582.66	Idaho
2 ENVFEE\$2.34-ENV FE 100		32.37	Tons	2.34		\$75.75	Idaho
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Idaho
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Idaho

Total Tax ~~\$20.98~~  
Total Ticket \$1648.39

1627.41

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 366981

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/18/2010 Vehicle# ANTHONY Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver ANTHONY PEARL  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/18/2010 11:51:54	Scale1	JSCHROD1		104840 lb	
Out	10/18/2010 12:07:32	Scale1	JSCHROD1		38240 lb	
					Net	66600 lb
					Tons	33.30

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		33.30	Tons	18.00	21.58	\$599.40	Idaho
2 ENVFEE\$2.34-ENV FE 100		33.30	Tons	2.34		\$77.92	Idaho
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Idaho
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Idaho

Total Tax ~~\$21.58~~  
Total Ticket \$1567.90

1646.32

Driver's Signature



Graham Road Facility  
1880 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 366989

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/18/2010 Vehicle# JERROD Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JERROD HARWOOD  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/18/2010 12:19:34	Scale1	JSCHROD1		Tare	104500 lb
Out	10/18/2010 12:33:39	Scale1	JSCHROD1		Net	38240 lb
					Tons	66260 lb
						33.13

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LDX	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		33.13	Tons	10.00	21.47	\$596.34	Idaho
2 ENVFEE\$2.34-ENV FE 100		33.13	Tons	2.34		\$77.52	Idaho
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Idaho
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Idaho

Total Tax ~~\$21.47~~  
Total Ticket \$1664.33

1642.86

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 366990

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/18/2010 Vehicle# JOSH Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JOSH GRAY  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/18/2010 12:27:34	Scale1	JSCHROD1		Tare	106340 lb
Out	10/18/2010 12:42:02	Scale1	JSCHROD1		Net	38320 lb
					Tons	68020 lb
						34.01

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		34.01	Tons	18.00	22.04	\$612.18	Idaho
2 ENVFEE\$2.34-ENV FE 100		34.01	Tons	2.34		\$79.58	Idaho
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Idaho
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Idaho

Total Tax  
Total Ticket

~~\$22.04~~  
~~\$1660.76~~

1660.76

Driver's Signature



Graham Road Facility  
1020 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367000

Customer Name ENV QUALITY MGMT Environmental Carrier R TRANSPORT  
Ticket Date 10/18/2010 Vehicle# MARTIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver MARTIN AMADOR  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 162491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/18/2010 13:10:47	Scale1	JSCHROD1		Tare	101880 lb
Out	10/18/2010 13:29:33	Scale1	JSCHROD1		Net	41400 lb
					Tons	50480 lb
Comments						30.24

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		30.24	Tons	18.00	19.50	\$544.32	Idaho
2 ENVFEE\$2.34-ENV FE 100		30.24	Tons	2.34		\$70.76	Idaho
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Idaho
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Idaho

Total Tax  
Total Ticket

~~\$19.50~~  
~~\$1503.68~~

1584.08

DRIVER'S SIGNATURE



Graham Road Facility  
1620 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367010

Customer Name ENV QUALITY MGMT Environmenta Carrier MRC CONSTRUCTION MRC CONSTRUCTION  
Ticket Date 10/18/2010 Vehicle# DAN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver DAN SCHLICK  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
RD 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/18/2010 13:55:51	Scale1	JSCHROD1		Tare	38060 lb
Out	10/18/2010 14:20:36	Scale1	JSCHROD1		Net	59950 lb
					Tons	29.98

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		29.98	Tons	18.00	19.43	\$539.64	Idaho
2 ENVFEE\$2.34-ENV FE 100		29.98	Tons	2.34		\$70.15	Idaho
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Idaho
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Idaho

Total Tax  
Total Ticket

~~\$19.43~~  
~~\$1578.22~~

1578.79

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367025

Customer Name ENV QUALITY MGMT Environmental Carrier CELORIE  
Ticket Date 10/18/2010 Vehicle# KEVIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver KEVIN HORN  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/18/2010 15:07:53	Scale1	JSCHRODI			104220 lb
Out	10/18/2010 15:46:33	Scale1	JSCHRODI		Tare	40820 lb
					Net	63400 lb
					Tons	31.70

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		31.70	Tons	18.00	20.54	\$570.60	Clearwater
2 ENVFEE\$2.34-ENV FE 100		31.70	Tons	2.34		\$74.18	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$28.04~~  
~~\$1604.82~~

1613.78

Ⓢ

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367026

Customer Name ENV DUALITY MGMT Environmental Carrier SINES SINES  
Ticket Date 10/18/2010 Vehicle# CHRIS Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver CHRIS SINES  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFINO ID US EPA REGION 10 DROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/18/2010 15:10:41	Scale1	JSCHROD1		Tare	99420 lb
Out	10/18/2010 15:03:24	Scale1	JSCHROD1		Net	40560 lb
					Tons	58040 lb
						29.42

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		29.42	Tons	18.00	19.06	\$529.56	Clearwater
2 ENVFEE\$2.34-ENV FE 100		29.42	Tons	2.34		\$68.84	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$15.85~~  
~~\$1586.40~~  
**1567.40**

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367028

Customer Name ENV QUALITY MSMT Environments Carrier CELDRIE  
Ticket Date 10/18/2010 Vehicle# D0UG Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver D0UG WARNER  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/18/2010 15:13:58	Scale1	JSCHROD1			99140 lb
Out	10/18/2010 16:05:15	Scale1	JSCHROD1			38560 lb
					Net	60560 lb
					Tons	30.28

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		30.28	Tons	18.00	19.62	\$545.04	Clearwater
2 ENVFEE\$2.34-ENV FE 100		30.28	Tons	2.34		\$70.86	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

*Doug Warner*

Total Tax ~~\$10.62~~  
Total Ticket ~~\$1624.52~~

1584.90



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367043

Customer Name ENV QUALITY MGMT Environmental Carrier R TRANSPORT  
Ticket Date 10/19/2010 Vehicle# MARTIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver MARTIN AMADOR  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/19/2010 07:04:43	Scale1	J5CHROD1			103480 lb
					Tare	42020 lb
Out	10/19/2010 07:22:50	Scale1	J5CHROD1		Net	61460 lb
					Tons	30.73

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		30.73	Tons	18.00	19.91	\$553.14	Clearwater
2 ENVFEE\$2.34-ENV FE 100		30.73	Tons	2.34		\$71.91	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$19.91~~  
\$1613.96

1594.05 €

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367044

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/19/2010 Vehicle# ED Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver ED  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
ID 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/19/2010 07:06:04	Scale1	JSCHROD1		Tare	105440 lb
Out	10/19/2010 07:25:08	Scale1	JSCHROD1		Net	40200 lb
					Tons	65240 lb
						32.62

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.62	Tons	18.00	21.14	\$587.16	Clearwater
2 ENVFEE\$2.34-ENV FE 100		32.62	Tons	2.34		\$75.33	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax ~~\$21.14~~  
Total Ticket ~~\$1632.49~~

1632.49 6



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367045

Customer Name ENV QUALITY MGMT Environments Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/19/2010 Vehicle# PAT Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver PAT  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAND

	Time	Scale	Operator	Inbound	Gross	
In	10/19/2010 07:07:13	Scale1	JSCHROD1			103920 lb
Out	10/19/2010 07:26:41	Scale1	JSCHROD1			40220 lb
					Net	63700 lb
					Tons	31.85

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		31.85	Tons	18.00	20.64	\$573.30	Clearwater
2 ENVFEE\$2.34-ENV FE 100		31.85	Tons	2.34		\$74.53	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$20.64~~  
~~\$1637.47~~

1616.83

Private Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367046

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/12/2010 Vehicle# ANTHONY Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver ANTHONY PEARL  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @ Grid  
Destination  
PG 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHD

	Time	Scale	Operator	Inbound	Gross	
In	10/19/2010 07:08:37	Scale1	JSCHROD1		Tare	104460 lb
Out	10/19/2010 07:30:44	Scale1	JSCHROD1		Net	38220 lb
					Tons	66240 lb
						33.12

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		33.12	Tons	18.00	21.46	\$596.16	Clearwater
2 ENVFEE\$2.34-ENV FE 100		33.12	Tons	2.34		\$77.50	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax ~~\$21.46~~  
Total Ticket ~~\$1054.12~~

1642.66

DRIVER'S SIGNATURE



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367049

Customer Name	ENV QUALITY MGMT Environmental	Carrier	KISS KISSLER ENTERPRISES
Ticket Date	10/19/2010	Vehicle#	JOSH
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	JOSH GRAY
Hauling Ticket#		Check#	
Route		Billing #	0001231
State Waste Code		Gen EPA ID	N/A
Manifest	0		
Destination		Grid	
DD	17015		
Profile	102491WA (SOIL WITH LESS THAN 1% ASBESTOS)		
Generator	WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAND		

	Time	Scale	Operator	Inbound	Gross	
In	10/19/2010 07:11:43	Scale1	JSCHROD1		Tare	105250 lb
Out	10/19/2010 07:35:14	Scale1	JSCHROD1		Net	38360 lb
					Tons	66900 lb
						33.45

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		33.45	Tons	18.00	21.68	\$602.10	Clearwater
2 ENVFEE\$2.34-ENV FE 100		33.45	Tons	2.34		\$78.27	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$21.68~~  
~~\$1571.05~~

1649.37



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367050

Customer Name ENV QUALITY MGMT Environmental Carrier MRC CONSTRUCTION MRC CONSTRUCTION  
Ticket Date 10/19/2010 Vehicle# DAN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver DAN SCHLICK  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PU 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/19/2010 07:13:02	Scale1	JSCHROD1			103020 lb
Out	10/19/2010 07:33:42	Scale1	JSCHROD1			37920 lb
					Net	65100 lb
					Tons	32.55

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WBR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.55	Tons	18.00	21.09	\$585.90	Clearwater
2 ENVFEE#2.34-ENV FE 100		32.55	Tons	2.34		\$76.17	Clearwater
3 TRANSFEE#924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER#45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$21.09~~  
~~\$122.16~~

1631.07



DRIVER'S SIGNATURE



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99222  
Ph: (509)244-0151

Original  
Ticket# 367095

Customer Name ENV QUALITY MGMT Environmental Carrier CELDRIE  
Ticket Date 10/19/2010 Vehicle# DOUG Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver DOUG WARNER  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
ID 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/19/2010 10:48:52	Scale1	JSCHROD1		Tare	106200 lb
Out	10/19/2010 11:11:57	Scale1	JSCHROD1		Net	38680 lb
					Tons	67520 lb
						33.76

Comments

NY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		33.76	Tons	18.00	21.88	\$607.68	Clearwater
2 ENVFEE\$2.34-ENV FE 100		33.76	Tons	2.34		\$79.00	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

*Doug Warner*

Total Tax  
Total Ticket

~~421.88~~  
~~11677.56~~

1655.68



Graham Road Facility  
1020 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0131

Original  
Ticket# 367097

Customer Name ENV QUALITY MGMT Environmental Carrier CELDRIE  
Ticket Date 10/19/2010 Vehicle# KEVIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver KEVIN HORN  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
DO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFINO ID US EPA REGION 10 DROFINO IDAHO

Time	Scale	Operator	Inbound	Gross	105340 lb
In 10/19/2010 10:54:24	Scale1	JSCHROD1		Tare	40860 lb
Out 10/19/2010 11:15:05	Scale1	JSCHROD1		Net	64480 lb
				Tons	32.24

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.24	Tons	18.00	20.89	\$580.32	Clearwater
2 ENVFEE\$2.34-ENV FC 100		32.24	Tons	2.34		\$75.44	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BDX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~420.89~~  
~~\$1545.85~~

11624.76 €

DRIVER'S Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367102

Customer Name ENV QUALITY MGMT Environmental Carrier SINES SINES  
Ticket Date 10/19/2010 Vehicle# CHRIS Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver CHRIS SINES  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFINO ID US EPA REGION 10 DROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/19/2010 11:05:22	Scale1	JSCHROD1		Tare	101560 lb
Out	10/19/2010 11:27:12	Scale1	JSCHROD1		Net	40700 lb
					Tons	60860 lb
						30.43

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		30.43	Tons	18.00	19.72	\$547.74	Clearwater
2 ENVFEE\$2.34-ENV FE 100		30.43	Tons	2.34		\$71.21	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~115.72~~  
~~\$1007.87~~

1587.95



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367136

Customer Name ENV QUALITY MGMT Environmental Carrier R TRANSPORT  
Ticket Date 10/19/2010 Vehicle# MARTIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver MARTIN AMADOR  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
ID 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
To	10/19/2010 13:39:41	Scale1	JSCHROD1		Tare	103850 lb
Out	10/19/2010 14:00:20	Scale1	JSCHROD1		Net	41360 lb
					Tons	62300 lb
						31.15

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		31.15	Tons	18.00	20.19	\$560.70	Clearwater
2 ENVFEE\$2.34-ENV FE 100		31.15	Tons	2.34		\$72.89	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~120.19~~  
~~\$1602.78~~

1602.59



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367139

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/19/2010 Vehicle# ANTHONY Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver ANTHONY PEARL  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
00 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFINO ID US EPA REGION 10 DROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/19/2010 13:56:29	Scale1	JSCHROD1			103260 lb
Out	10/19/2010 14:08:37	Scale1	JSCHROD1		Tare	37700 lb
					Net	65560 lb
					Tons	32.78

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dth-	100	32.78	Tons	18.00	21.24	\$590.04	Clearwater
2 ENVFEE\$2.34-ENV FE	100	32.78	Tons	2.34		\$76.71	Clearwater
3 TRANSFEE\$924.00-TR	100	1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER	100	1	Each	45.00		\$45.00	Clearwater

Total Tax ~~\$21.24~~  
Total Ticket ~~\$1650.99~~

1635.75



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367148

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/19/2010 Vehicle# ED Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver ED  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
QD 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAND

	Time	Scale	Operator	Inbound	Gross	
In	10/19/2010 14:30:54	Scale1	JSCHROD1			104620 lb
Out	10/19/2010 14:46:37	Scale1	JSCHROD1			40240 lb
					Net	64380 lb
					Tons	32.19

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.19	Tons	18.00	20.86	\$579.42	Clearwater
2 ENVFEE\$2.34-ENV FE 100		32.19	Tons	2.34		\$75.32	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$22.86~~  
~~\$1244.60~~

1623.74 6



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367150

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/19/2010 Vehicle# PAT Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver PAT  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/19/2010 14:40:34	Scale1	JSCHROD1		Tare	103440 lb
Out	10/19/2010 14:52:38	Scale1	JSCHROD1		Net	40220 lb
					Tons	63220 lb
						31.61

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dth- 100		31.61	Tons	10.00	20.48	\$568.96	Clearwater
2 ENVFEE\$2.34-ENV FE 100		31.61	Tons	2.34		\$73.97	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$20.48~~  
~~\$1522.43~~

1611.95 €



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367153

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/19/2010 Vehicle# JOSH Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JOSH GRAY  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0 Grid  
Destination  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/19/2010 15:28:43	Scale1	JSCHROD1			104480 lb
Out	10/19/2010 15:43:30	Scale1	JSCHROD1			38420 lb
					Net	66060 lb
					Tons	33.03

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		33.03	Tons	18.00	21.40	\$594.54	Clearwater
2 ENVFEE\$2.34-ENV FE 100		33.03	Tons	2.34		\$77.29	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~121.40~~  
~~1162.23~~

1640.83

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 357159

Customer Name	ENV QUALITY MGMT Environmental	Carrier	MRC CONSTRUCTION	MRC CONSTRUCTION
Ticket Date	10/20/2010	Vehicle#	DAM	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver	DAN SCHLICK	
Hauling Ticket#		Check#		
Route		Billing #	0001231	
State Waste Code		Gen EPA ID	N/A	
Manifest	0			
Destination		Grid		
PO	17015			
Profile	102491WA (SOIL WITH LESS THAN 1% ASBESTOS)			
Generator	WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO			

	Time	Scale	Operator	Inbound	Gross	
In	10/20/2010 07:01:17	Scale1	JSCHROD1			99660 lb
Out	10/20/2010 07:22:02	Scale1	JSCHROD1		Tare	37360 lb
					Net	62300 lb
					Tons	31.15

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		31.15	Tons	18.00	20.19	\$560.70	Clearwater
2 ENVFEE\$2.34-ENV FE 100		31.15	Tons	2.34		\$72.89	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax ~~\$20.19~~  
Total Ticket ~~\$1622.78~~

1602.59

DRIVER'S SIGNATURE



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 357172

Customer Name ENV QUALITY MGMT Environmental Carrier SINES SINES  
Ticket Date 10/20/2010 Vehicle# CHRIS  
Payment Type Credit Account Container Volume  
Manual Ticket#  
Hauling Ticket# Driver CHRIS SINES  
Route Check#  
State Waste Code Billing # 0001231  
Manifest 0 Gen EPA ID N/A  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/20/2010 07:03:53	Scale1	JSCHROD1			97720 lb
Out	10/20/2010 07:23:21	Scale1	JSCHROD1			40800 lb
					Net	56920 lb
Comments					Tons	28.46

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT; PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		28.46	Tons	18.00	18.44	\$512.28	Clearwater
2 ENVFEE\$2.34-ENV FE 100		28.46	Tons	2.34		\$66.60	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$18.44~~  
~~\$1566.32~~

1,547.88





Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 357174

Customer Name ENV QUALITY MGMT Environmental Carrier CELDRIE  
Ticket Date 10/20/2010 Vehicle# KEVIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver KEVIN HORN  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
ID 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

Time	Scale	Operator	Inbound	Gross	103240 lb
In 10/20/2010 07:05:23	Scale1	JSCHRODI		Tare	40900 lb
Out 10/20/2010 07:24:36	Scale1	JSCHRODI		Net	62340 lb
				Tons	31.17

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		31.17	Tons	18.00	20.20	\$561.06	Clearwater
2 ENVFEE\$2.34-ENV FE 100		31.17	Tons	2.34		\$72.94	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax ~~420.20~~  
Total Ticket ~~\$1623.20~~

1603.00



Graham Road Facility  
1920 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367176

Customer Name ENV QUALITY MGMT Environmental Carrier CELORIE  
Ticket Date 10/20/2010 Vehicle# DOUG Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver DOUG WARNER  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
RD 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/20/2010 07:07:18	Scale1	JSCHROD1		102360 lb	
Out	10/20/2010 07:26:48	Scale1	JSCHROD1		38640 lb	
					Net	63720 lb
					Tons	31.86

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dth- 100		31.86	Tons	18.00	20.65	\$573.48	Clearwater
2 ENVFEE\$2.34-ENV FE 100		31.86	Tons	2.34		\$74.55	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

*Doug Warner*

Total Tax ~~\$20.65~~  
Total Ticket ~~\$1627.68~~

1617.03



Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367177

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/20/2010 Vehicle# PAT Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver PAT  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
ID 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFINO ID US EPA REGION 10 DROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/20/2010 07:08:39	Scale1	JSCHROD1			101800 lb
Out	10/20/2010 07:29:32	Scale1	JSCHROD1			40300 lb
					Net	61500 lb
					Tons	30.75

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
Spwaste Solid Dth- 100		30.75	Tons	18.00	19.93	\$553.50	Clearwater
ENVFEE\$2.34-ENV FE 100		30.75	Tons	2.34		\$71.95	Clearwater
TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$19.93~~  
~~\$1814.38~~

1594.45



Waste Management Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367178

Customer Name ENV QUALITY MGMT Environments Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/20/2010 Vehicle# ANTHONY Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver ANTHONY PEARL  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAND

	Time	Scale	Operator	Inbound	Gross	
In	10/20/2010 07:10:54	Scale1	JSCHROD1		102960 lb	
Out	10/20/2010 07:31:41	Scale1	JSCHROD1		37720 lb	
					Net	65240 lb
					Tons	32.62

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dth- 100		32.62	Tons	18.00	21.14	\$587.16	Clearwater
2 ENVFEE\$2.34-ENV FE 100		32.62	Tons	2.34		\$76.33	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax ~~\$21.14~~  
Total Ticket ~~\$1553.53~~

1632.49



403WM

Driver's Signature



Graham Road Facility  
1020 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367196

Customer Name ENV QUALITY MGMT Environmental Carrier R TRANSPORT  
Ticket Date 10/20/2010 Vehicle# MARTIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver MARTIN AMADOR  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
AO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/20/2010 08:21:01	Scale1	JSCHROD1		Tare	105920 lb
Out	10/20/2010 08:45:10	Scale1	JSCHROD1		Net	41580 lb
					Tons	64340 lb
						32.17

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.17	Tons	10.00	20.85	\$579.06	Clearwater
2 ENVFEE\$2.34-ENV FE 100		32.17	Tons	2.34		\$75.29	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$20.85~~  
~~\$1644.19~~

11623.34

6



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367231

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/20/2010 Vehicle# JOSH Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JOSH GRAY  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/20/2010 10:25:14	Scale1	JSCHROD1			103600 lb
Out	10/20/2010 10:36:32	Scale1	JSCHROD1			36540 lb
					Net	67060 lb
					Tons	32.53

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dth- 100		32.53	Tons	18.00	21.08	\$585.54	Clearwater
2 ENVFEE\$2.34-ENV FE 100		32.53	Tons	2.34		\$76.12	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax \$21.08  
Total Ticket \$1630.66

1,630.66

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367275

Customer Name	ENV QUALITY MGMT Environmental	Carrier	SINES SINES
Ticket Date	10/20/2010	Vehicle#	CHRIS
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	CHRIS SINES
Hauling Ticket#		Check#	
Route		Billing #	0001231
State Waste Code		Gen EPA ID	N/A
Manifest	0		
Destination		Grid	
PO	17015		
Profile	102491WA (SOIL WITH LESS THAN 1% ASBESTOS)		
Generator	WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO		

Time	Scale	Operator	Inbound	Gross	101560 lb
In 10/20/2010 13:55:04	Scale1	JSCHROD1		Tare	40860 lb
Out 10/20/2010 14:17:09	Scale1	JSCHROD1		Net	60700 lb
Comments				Tons	30.35

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		30.35	Tons	18.00	19.67	\$546.30	Clearwater
2 ENVFEE\$2.34-ENV FE 100		30.35	Tons	2.34		\$71.02	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax ~~\$19.67~~  
Total Ticket ~~\$1586.32~~

1,586.32

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367287

Customer Name ENV QUALITY MGMT Environmental Carrier CELORIE  
Ticket Date 10/20/2010 Vehicle# DOUG Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver DOUG WARNER  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/20/2010 14:33:49	Scale1	JSCHRODI			105820 lb
Out	10/20/2010 14:48:12	Scale1	JSCHRODI			38600 lb
					Net	67220 lb
					Tons	33.61

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		33.61	Tons	18.00	21.78	\$604.98	Clearwater
2 ENVFEE\$2.34-ENV FE 100		33.61	Tons	2.34		\$78.65	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

*Doug Warner*

Total Tax ~~\$21.78~~  
Total Ticket ~~\$1674.41~~

1652.63



Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367290

Customer Name ENV QUALITY MGMT Environmenta Carrier MRC CONSTRUCTION MRC CONSTRUCTION  
Ticket Date 10/20/2010 Vehicle# DAN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver DAN SCHLICK  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0 Grid  
Destination  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFINO ID US EPA REGION 10 DROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/20/2010 14:45:35	Scale1	JSCHROD1			106800 lb
Out	10/20/2010 15:03:08	Scale1	JSCHROD1		Tare	37420 lb
					Net	68580 lb
					Tons	34.29

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		34.29	Tons	18.00	22.22	\$617.22	Clearwater
2 ENVFEE\$2.34-ENV FE 100		34.29	Tons	2.34		\$80.24	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$11.22~~  
~~\$1000.52~~

1,666.46





Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367292

Customer Name ENV QUALITY MGMT Environmental Carrier CELORIE  
Ticket Date 10/20/2010 Vehicle# KEVIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver KEVIN HORN  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
DD 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 ORDFINO ID US EPA REGION 10 ORDFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/20/2010 14:56:22	Scale1	JSCHROD1			101820 lb
Out	10/20/2010 15:09:54	Scale1	JSCHROD1		Tare	40380 lb
					Net	61440 lb
					Tons	30.72

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		30.72	Tons	18.00	19.91	\$552.96	Clearwater
2 ENVFEE\$2.34-ENV FE 100		30.72	Tons	2.34		\$71.88	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	\$924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$10.31~~  
~~\$1213.73~~

1,593.84 ©

Driver Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367297

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/20/2010 Vehicle# PAT Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver PAT  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/20/2010 15:20:33	Scale1	JSCHROD1			104600 lb
Out	10/20/2010 15:53:52	Scale1	JSCHROD1			40480 lb
					Net	64120 lb
					Tons	32.06

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dth- 100		32.06	Tons	18.00	20.77	\$577.08	Clearwater
2 ENVFEE\$2.34-ENV FE 100		32.06	Tons	2.34		\$75.02	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$20.77~~  
~~\$164.07~~

1621.10



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367300

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/20/2010 Vehicle# ANTHONY Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver ANTHONY PEARL  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
TO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/20/2010 15:28:19	Scale1	JSCHROD1			104160 lb
Out	10/20/2010 15:56:03	Scale1	JSCHROD1		Tare	37820 lb
					Net	66340 lb
					Tons	33.17

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		33.17	Tons	18.00	<del>21.49</del>	\$597.06	Clearwater
2 ENVFEE\$2.34-ENV FE 100		33.17	Tons	2.34		\$77.62	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$21.49~~  
~~\$1553.17~~

10243.68

Driver's Signature



Graham Road Facility  
1020 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367307

Customer Name	ENV DUALITY MGMT Environmental	Carrier	R TRANSPORT
Ticket Date	10/20/2010	Vehicle#	MARTIN
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	MARTIN AMADOR
Hauling Ticket#		Check#	
Route		Billing #	0001231
State Waste Code		Gen EPA ID	N/A
Manifest	0		
Destination		Grid	
PO	17015		
Profile	102491WA (SOIL WITH LESS THAN 1% ASBESTOS)		
Generator	WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO		

Time	Scale	Operator	Inbound	Gross	105940 lb*
In 10/20/2010 16:17:58	Scale1	JSCHROD1		Tare	41720 lb
Out 10/20/2010 16:27:20	Scale1	JSCHROD1		Net	64220 lb
		* Manual Weight		Tons	32.11

Comments

*Replaces 367306*

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/NSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.11	Tons	16.00	<del>20.81</del>	\$577.98	Clearwater
2 ENVFEE\$2.34-ENV FE 100		32.11	Tons	2.34		\$75.14	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

*[Signature]*

Total Tax ~~\$20.81~~  
Total Ticket ~~\$1642.93~~

1622.12



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367308

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/21/2010 Vehicle# JOSH Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JOSH GRAY  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
PD 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 07:00:22	Scale1	JSCHROD1			105500 lb
Out	10/21/2010 07:10:49	Scale1	JSCHROD1			38680 lb
					Net	66820 lb
					Tons	33.41

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WGR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		33.41	Tons	18.00	21.65	\$601.38	Clearwater
2 ENVFEE\$2.34-ENV FE 100		33.41	Tons	2.34		\$78.18	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$21.65~~  
\$1648.56

1648.56

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367310

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/21/2010 Vehicle# JERROD Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JERROD HARWOOD  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 07:06:33	Scale1	JSCHROD1		Tare	102300 lb
Out	10/21/2010 07:14:46	Scale1	JSCHROD1		Net	38250 lb
					Tons	64040 lb
						32.02

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/MSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.02	Tons	18.00	20.75	\$576.36	Clearwater
2 ENVFEE\$2.34-ENV FE 100		32.02	Tons	2.34		\$74.93	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax \$20.75  
Total Ticket \$1541.04

1,620.29

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367309

Customer Name	ENV QUALITY MGMT Environmental	Carrier	CELORIE
Ticket Date	10/21/2010	Vehicle#	DOUG
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	DOUG WARNER
Hauling Ticket#		Check#	
Route		Billing #	0001231
State Waste Code		Gen EPA ID	N/A
Manifest	0		
Destination		Grid	
PO	17015		
Profile	102491WA (SOIL WITH LESS THAN 1% ASBESTOS)		
Generator	WA-US EPA REGION 10 DROFINO ID US EPA REGION 10 DROFINO IDAHO		

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 07:04:35	Scale1	JSCHROD1		Tare	91200 lb
Out	10/21/2010 07:25:13	Scale1	JSCHROD1		Net	45440 lb
					Tons	45760 lb
						22.88

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		22.88	Tons	18.00	14.83	\$411.84	Clearwater
2 ENVFEE\$2.34-ENV FE 100		22.88	Tons	2.34		\$53.54	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

*Doug Warner*

Total Tax ~~14.83~~  
Total Ticket ~~\$1449.21~~

1,434.38



Graham Road Facility  
1020 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367311

Customer Name ENV QUALITY MGMT Environmental Carrier SINES SINES  
Ticket Date 10/21/2010 Vehicle# CHRIS Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver CHRIS SINES  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid

PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 CROFIND ID US EPA REGION 10 CROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 07:07:55	Scale1	JSCHRODI		111920 lb	
Out	10/21/2010 07:26:54	Scale1	JSCHRODI		40820 lb	
					Net	71100 lb
					Tons	35.55

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dth- 100		35.55	Tons	10.00	23.04	\$639.90	Clearwater
2 ENVFEE\$2.34-ENV FE 100		35.55	Tons	2.34		\$83.19	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax ~~\$23.04~~  
Total Ticket ~~\$1710.13~~

1692.09

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367316

Customer Name ENV QUALITY MGMT Environmental Carrier CELORIE  
Ticket Date 10/21/2010 Vehicle# KEVIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver KEVIN HORN  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 ORCINO ID US EPA REGION 10 ORCINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 07:21:57	Scaled	JSCHROD1			100720 lb
Out	10/21/2010 07:32:34	Scaled	JSCHROD1		Tare	40840 lb
					Net	59880 lb
					Tons	29.94

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		29.94	Tons	18.00	19.40	\$538.92	Clearwater
2 ENVFEE\$2.34-ENV FE 100		29.94	Tons	2.34		\$70.06	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

~~\$117.40~~  
~~\$1557.38~~  
**1577.98**



Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 357318

Customer Name ENV QUALITY MGMT Environmental Carrier CELORIE  
Ticket Date 10/21/2010 Vehicle# DOUG Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver DOUG WARNER  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 07:40:58	Scale1	JSCHROD1		Tare	45420 lb
Out	10/21/2010 07:51:36	Scale1	JSCHROD1		Net	38620 lb
					Tons	6800 lb
						3.40

Comments TRUCK DID NOT EMPTY COMPLETELY---REDUMP

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WAR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth- 100		3.40	Tons	18.00	2.20	\$61.20	Clearwater

*Doug Warner*

Total Tax  
Total Ticket

~~\$2.20~~  
~~\$63.40~~

61.20

Operator's Signature



Graham Road Facility  
1620 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367343

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/21/2010 Vehicle# PAT Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver PAT  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 10:40:09	Scale1	DBROOKS		Tare	105540 lb
Out	10/21/2010 10:53:43	Scale1	DBROOKS		Net	40500 lb
					Tons	55040 lb
						32.52

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dth- 100		32.52	Tons	18.00	21.27	\$585.36	Clearwater
2 ENVFEE\$2.34-ENV FE 100		32.52	Tons	2.34		\$75.10	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax \$21.07  
Total Ticket \$1630.53

1630.46

Driver Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367346

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/21/2010 Vehicle# ANTHONY Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver ANTHONY PEARL  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491W0 (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFINO ID US EPA REGION 10 DROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 10:57:50	Scale1	DBROOKS		Tare	104380 lb
Out	10/21/2010 11:08:21	Scale1	DBROOKS		Net	37900 lb
					Tons	56400 lb
						33.20

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LDX	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dth- 100		33.20	Tons	18.00	21.51	\$597.60	Clearwater
2 ENVFEE\$2.34-ENV FE 100		33.20	Tons	2.34		\$77.65	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

1644.29  
\$21.51  
~~\$1644.29~~

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367352

Customer Name ENV QUALITY NGMT Environmental Carrier MRC CONSTRUCTION MRC CONSTRUCTION  
Ticket Date 10/21/2010 Vehicle# DAN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver DAN SCHLICK  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
EQ 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFIND ID US EPA REGION 10 OROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 11:14:48	Scale1	DBROOKS			107850 lb
Out	10/21/2010 11:50:39	Scale1	JSCHROD1		Tare	37400 lb
					Net	70450 lb
					Tons	35.23

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WER

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dth- 100		35.23	Tons	18.00	22.83	\$634.14	Clearwater
2 ENVFEE#2.34-ENV FE 100		35.23	Tons	2.34		\$82.44	Clearwater
3 TRANSFEE#924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER#45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

1,685.58

Total Tax \$45.83  
Total Ticket \$1,731.41

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367357

Customer Name ENV QUALITY MGMT Environmental Carrier R TRANSPORT  
Ticket Date 10/21/2010 Vehicle# MARTIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver MARTIN AMADOR  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
00 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 11:28:44	Scale1	DBROOKS		Tare	104440 lb
Out	10/21/2010 12:19:33	Scale1	JSCHROD1		Net	41680 lb
					Tons	62760 lb
						31.38

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		31.38	Tons	10.00	20.33	\$564.84	Clearwater
2 ENVFEE\$2.34-ENV FE 100		31.38	Tons	2.34		\$73.43	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

1,607.27  
~~\$20.33~~  
~~\$1587.50~~

Driver's Signature



Graham Road Facility  
1020 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 387360

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/21/2010 Vehicle# ED Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver ED  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 11:52:17	Scale1	JSCHROD1		Tare	103920 lb
Out	10/21/2010 12:27:24	Scale1	JSCHROD1		Net	39950 lb
					Tons	63940 lb
Comments						31.97

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/MER

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dth- 100		31.97	Tons	18.00	20.72	\$575.46	Clearwater
2 ENVFEE\$2.34-ENV FE 100		31.97	Tons	2.34		\$74.81	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

161927

Total Tax \$20.72  
Total Ticket \$1659.99

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 357375

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/21/2010 Vehicle# JERROD Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JERROD HARWOOD  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 13:10:17	Scale1	JSCHROD1		Tare	104580 lb
Out	10/21/2010 13:19:37	Scale1	JSCHROD1		Net	37760 lb
					Tons	66820 lb
						33.41

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		33.41	Tons	15.00	<del>21.55</del>	\$501.38	Clearwater
2 ENVFEE\$2.34-ENV FE 100		33.41	Tons	2.34		\$78.18	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax ~~\$21.55~~  
Total Ticket \$1570.21

1648.56

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367380

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/21/2010 Vehicle# JOSH Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JOSH GRAY  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAND

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 13:28:49	Scale1	JSCHROD1		Tare	104340 lb
Out	10/21/2010 13:41:47	Scale1	JSCHROD1		Net	38200 lb
					Tons	66140 lb
						33.07

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LDX	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dtn- 100		33.07	Tons	16.00	21.43	\$595.26	Clearwater
2 ENVFEE\$2.34-ENV FE 100		33.07	Tons	2.34		\$77.38	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BDX LINER 100		1	Each	45.00		\$45.00	Clearwater

*Josh Gray*

Total Tax  
Total Ticket

1641.64  
~~\$21.43~~  
~~\$1620.21~~

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367382

Customer Name ENV QUALITY MGMT Environments Carrier CELORIE  
Ticket Date 10/21/2010 Vehicle# KEVIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver KEVIN HORN  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 13:51:51	Scale1	JSCHROD1		Tare	101280 lb
Out	10/21/2010 14:11:06	Scale1	JSCHROD1		Net	40360 lb
					Tons	60920 lb
Comments						30.46

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		30.46	Tons	18.00	<del>12.74</del>	\$548.28	Clearwater
2 ENVFEE\$2.34-ENV FE 100		30.46	Tons	2.34		\$71.28	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

1588.56  
~~\$12.74~~  
~~\$1616.56~~

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 357390

Customer Name ENV QUALITY MGMT Environmental Carrier SINES SINES  
Ticket Date 10/21/2010 Vehicle# CHRIS Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver CHRIS SINES  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAMO

Time	Scale	Operator	Inbound	Gross	101700 lb
In 10/21/2010 14:33:10	Scale1	JSCHROD1		Tare	40400 lb
Out 10/21/2010 14:53:28	Scale1	JSCHROD1		Net	61300 lb
				Tons	30.65

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Oth- 100		30.65	Tons	18.00		\$551.70	Clearwater
ENVFEE\$2.34-ENV FE 100		30.65	Tons	2.34		\$71.72	Clearwater
TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

1592.42  
~~1592.42~~

DRIVER'S SIGNATURE



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367393

Customer Name ENV QUALITY NGMT Environmental Carrier CELORIE  
Ticket Date 10/21/2010 Vehicle# DOUG Volume  
Payment Type Credit Account Container#  
Manual Ticket# Driver DOUG WARNER  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 GROFIND ID US EPA REGION 10 GROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/21/2010 14:47:54	Scale1	JSCHROD1		Tare	38560 lb
Out	10/21/2010 15:04:29	Scale1	JSCHROD1		Net	60000 lb
					Tons	30.00

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		30.00	Tons	18.00		\$540.00	Clearwater
2 ENVFEE\$2.34-ENV FE 100		30.00	Tons	2.34		\$70.20	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

*Doug Warner*

Total Tax  
Total Ticket \$1579.20

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367423

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/22/2010 Vehicle# ED Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver ED  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest #  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/22/2010 08:39:27	Scale1	JSCHROD1		Tare	102740 lb
Out	10/22/2010 08:57:23	Scale1	JSCHROD1		Net	40260 lb
					Tons	62480 lb
						31.24

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		31.24	Tons	18.00	20.24	\$562.32	Clearwater
2 ENVFEE\$2.34-ENV FE 100		31.24	Tons	2.34		\$73.10	Clearwater
3 TRANSFEE\$24.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax \$20.24  
Total Ticket \$1604.42

1604.42

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367401

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/22/2010 Vehicle# ANTHONY Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver ANTHONY PEARL  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAND

	Time	Scale	Operator	Inbound	Gross	
In	10/22/2010 07:05:09	Scale1	JSCHROD1		Tare	106840 lb
Out	10/22/2010 07:20:12	Scale1	JSCHROD1		Net	38180 lb
					Tons	68660 lb
						34.33

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		34.33	Tons	18.00	22.25	\$617.94	Clearwater
2 ENVFEE\$2.34-ENV FE 100		34.33	Tons	2.34		\$80.33	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax \$22.25  
Total Ticket \$1667.52

1667.52



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367402

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/22/2010 Vehicle# JOSH Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JOSH GRAY  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
OO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFIND ID US EPA REGION 10 OROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/22/2010 07:06:08	Scale1	JSCHROD1			103800 lb
Out	10/22/2010 07:23:35	Scale1	JSCHROD1		Tare	38380 lb
					Net	65420 lb
Comments					Tons	32.71

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED-- W/WSR

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.71	Tons	18.00	21.20	\$588.78	Clearwater
2 ENVFEE\$2.34-ENV FE 100		32.71	Tons	2.34		\$76.54	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax ~~\$21.20~~  
Total Ticket ~~\$1553.52~~

1634.32

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367400

Customer Name ENV QUALITY MGMT Environmental Carrier MRC CONSTRUCTION MRC CONSTRUCTION  
Ticket Date 10/22/2010 Vehicle# DAN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver DAN SCHLICK  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
EQ 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAND

	Time	Scale	Operator	Inbound	Gross	
In	10/22/2010 07:01:15	Scale1	JSCHROD1		Tare	98080 lb
Out	10/22/2010 07:25:48	Scale1	JSCHROD1		Net	37420 lb
					Tons	50660 lb
						30.33

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT PROPER PACKAGED- W/WSR

Product	LDW	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		30.33	Tons	18.00	19.65	\$545.94	Clearwater
2 ENVFEE\$2.34-ENV FE 100		30.33	Tons	2.34		\$70.97	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

1585.91

Total Tax \$19.65  
Total Ticket \$1585.91

DRIVER'S SIGNATURE



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367405

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/22/2010 Vehicle# JERROD Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JERROD HARWOOD  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
SO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFINO ID US EPA REGION 10 DROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/22/2010 07:17:56	Scale1	JSCHROD1		Tare	103320 lb
Out	10/22/2010 07:28:35	Scale1	JSCHROD1		Net	38000 lb
					Tons	69320 lb
						32.66

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.66	Tons	18.00	21.16	\$587.88	Clearwater
2 ENVFEE\$2.34-ENV FE 100		32.66	Tons	2.34		\$75.42	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

1633.30

Total Tax \$21.16  
Total Ticket \$1633.30



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367409

Customer Name ENV QUALITY MGMT Environments Carrier R TRANSPORT  
Ticket Date 10/22/2010 Vehicle# MARTIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver MARTIN AMADOR  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Sen EPA ID N/A  
Manifest 0  
Destination Grid  
CO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 GROFIND ID US EPA REGION 10 GROFIND IDAND

	Time	Scale	Operator	Inbound	Gross	
In	10/22/2010 07:38:49	Scale1	JSCHROD1		103060 lb	
Out	10/22/2010 07:55:19	Scale1	JSCHROD1		41860 lb	
					Net	61200 lb
					Tons	30.60

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDW	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		30.60	Tons	18.00	19.83	\$550.80	Clearwater
2 ENVFEE\$2.34-ENV FE 100		30.60	Tons	2.34		\$71.60	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

1591.40  
~~\$15.65~~  
~~\$1611.25~~

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367424

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/22/2010 Vehicle# PAT Volume  
Payment Type Credit Account Container#  
Manual Ticket# Driver PAT  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/22/2010 08:40:43	Scale1	JSCHROD1		Tare	103240 lb
Out	10/22/2010 08:55:36	Scale1	JSCHROD1		Net	39960 lb
					Tons	63200 lb
						31.64

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		31.64	Tons	18.00	20.50	\$569.52	Clearwater
2 ENVFEE\$2.34-ENV FE 100		31.64	Tons	2.34		\$74.04	Clearwater
3 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
4 LINER\$45-BOX LINER 100		1	Each	45.00		\$45.00	Clearwater

Total Tax  
Total Ticket

1612.56  
420.56  
\$1633.04

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367570

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/25/2010 Vehicle# JERROD Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JERROD HARNOOD  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/25/2010 11:23:49	Scale1	dbrooks			102980 lb
Out	10/25/2010 11:44:54	Scale1	dbrooks		Tare	37740 lb
					Net	65240 lb
					Tons	32.62

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.62	Tons	18.00		\$587.16	Clearwater
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
3 ENVFEE\$2.34-ENV FE 100		32.62	Tons	2.34		\$76.33	Clearwater

Total Tax  
Total Ticket \$1587.49 OK

Printer's Markings



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 357571

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/25/2010 Vehicle# JAY Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JAY DELOSREYES  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFINO ID US EPA REGION 10 DROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/25/2010 11:27:00	Scale1	dbrooks		Tare	94550 1b
Out	10/25/2010 11:48:20	Scale1	dbrooks		Net	38320 1b
					Tons	56240 1b
						28.12

Comments:

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/MSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		28.12	Tons	18.00		\$506.16	Clearwater
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
3 ENVFEE\$2.34-ENV FE 100		28.12	Tons	2.34		\$65.80	Clearwater

Total Tax  
Total Ticket \$1495.96

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367634

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/26/2010 Vehicle# JERROD Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JERROD HARWOOD  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/26/2010 07:02:55	Scale1	JESCHROD1		Tare	123400 lb
Out	10/26/2010 07:13:45	Scale1	dbrooks		Net	36640 lb
					Tons	65240 lb
						32.62

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.62	Tons	18.00		\$587.16	Clearwater
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
3 ENVFEE\$2.34-ENV FE 100		32.62	Tons	2.34		\$76.33	Clearwater

Total Tax  
Total Ticket \$1597.49





Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367635

Customer Name ENV QUALITY NGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/26/2010 Vehicle# JAY Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JAY DELOSREYES  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/26/2010 07:09:00	Scale1	JSCHROD1		Tare	105580 lb
Out	10/26/2010 07:24:41	Scale1	dbrooks		Net	39200 lb
					Tons	66380 lb
						33.19

Comments

NY SIGNATURE CERTIFIED NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/MSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		33.19	Tons	18.00		\$597.42	Clearwater
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
3 ENVFEE\$2.34-ENV FE 100		33.19	Tons	2.34		\$77.66	Clearwater

Total Tax  
Total Ticket \$1599.08

Bagged pieces of Asbestos pipe that Pat Walters took to Graham Facility. Came from all sites #17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 and 34.

THAT WALTER SIGNATURE



Graham Road Facility  
1020 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367639

Customer Name ENV QUALITY MGMT Environmental Carrier EQM  
Ticket Date 10/26/2010 Vehicle# PAT Volume  
Payment Type Credit Account Container  
Manifest Ticket# Driver PAT WALTERS  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID  
Manifest  
Destination  
PO 1200 6TH AVE  
Profile ()  
Generator

Time  
In 10/26/2010 07:53:22 S  
Out 10/26/2010 07:53:22

Comments BROFINO

MY SIGNATURE CERT

Questioning  
Tail  
out of HD

und Gross 9560  
Tare 7360  
Net 2200  
Tons 1.1

IPER PACKAGED- W/WSR

Product	LD%	Amount	Origin
1 ASB-ASBESTOS	100	11	Clearwater
2 FUEL-Fuel Surcharg	100		
3 EVF-L-Standard Env	100		
4 WEI-WEIGH ONLY	100		
		4.66	
	1 Load	10.00	
	1 Each	12.00	

287.82

Total Tax ~~18.11~~  
Total Ticket \$296.93

# GRAHAM ROAD RECYCLING & DISPOSAL FACILITY

1820 South Graham Road \* Medical Lake, WA 99022 \* 509-244-0151 \* Fax 509-244-0207

## WASTE SHIPMENT RECORD

1. Work site name & mailing address: **ORO FINO Acm SITE**  
 Owner's name: **US EPA**  
 Telephone No.: **1200 6TH AVE, SUITE 900 (ECL 116)**  
**SEATTLE, WA 98101**

County: **CLEARWATER**

2. Operator's name and address: **EQM 6325 216TH ST SW, SUITE 3 LYNNWOOD, WA**  
 Telephone No.: **425-673-2900**

3. Disposal site name: **Graham Road Recycling & Disposal Facility**  
 Mailing address: **1820 South Graham Road, Medical Lake, WA 99022**  
 Physical site address: **Same**  
 Telephone No.: **(509) 244-0151** Fax No.: **(509) 244-0207**

4. Name and address of responsible agency: **Spokane County Air Pollution Control Authority**  
**1101 West College Avenue, Spokane, WA 99201**  
 Telephone No.: **(509) 456-4727**

5. Description of Materials: **CAF (CONCRETE ASBESTOS PIPE)**  
 6. Containers: **PLASTIC BAGS** 7. Total Quantity  
 No.: **70** Type: **PLASTIC BAG** Cubic Yards: **10.1 c/y**

8. Special handling instructions and additional information:

9. Operators Certification: I hereby certify that the above listed material(s), is (are) not hazardous waste as defined by 40 CFR part 261 or any applicable state law. I hereby declare that the contents of this consignment are full and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for Transport by highway according to applicable international and government regulations.

Printed/typed name & title:

Signature: **James D. Hunter for EQM**

Date: **10/25/10**

10. Transporter 1 (Acknowledgment of receipt of materials)

Printed/typed name & title: **MCGILLWRAY ENVIRONMENTAL, LLC**  
**PAT WALTERS**

Address & Telephone No.: **PO BOX 1041, OSCORW, ID 83849**  
**PH. 208-556-6384**

Signature: **[Signature]**

Date: **10/25/10**

11. Transporter 2 (Acknowledgment of receipt of materials)

Printed/typed name & title:

Address & Telephone No.:

Signature:

Date: **/ /**

12. Discrepancy indication space:

13. Disposal site owner or operator: Certification of receipt of asbestos materials covered by this manifest except as noted in item 12.

Printed/typed name & title: **EIR Zrebs**

Signature: **[Signature]**

Date: **10/26/10**

WASTE MANAGEMENT



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 357714

Customer Name ENV QUALITY MSMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/26/2010 Vehicle# JERROD Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JERROD HARWOOD  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/26/2010 13:15:55	Scale1	JSCHRODI			102940 lb
Out	10/26/2010 13:26:11	Scale1	JSCHRODI			37920 lb
					Net	65020 lb
					Tons	32.51

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.51	Tons	18.00		\$585.18	Clearwater
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
3 ENVFEE12.34-ENV FE 100		32.51	Tons	2.34		\$76.07	Clearwater

Total Tax  
Total Ticket \$1505.25



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367730

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/26/2010 Vehicle# JAY Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JAY DELOSREYES  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

Time	Scale	Operator	Inbound	Gross	106020 lb
10/26/2010 14:14:55	Scale1	DEROOKS		Tare	38380 lb
10/26/2010 14:50:23	Scale1	DEROOKS		Net	67640 lb
				Tons	33.82

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WER

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Gth- 100		33.82	Tons	10.00			
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$600.75	Clearwater
3 ENVFEE\$2.34-ENV FE 100		33.82	Tons	2.34		\$924.00	Clearwater
						\$79.14	Clearwater

Total Tax  
Total Ticket \$1511.90

OFFICE SIGNATURE



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367752

Customer Name ENV QUALITY MGMT Environments Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/27/2010 Vehicle# JAY Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JAY DELOSREYES  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND TO US EPA REGION 10 DROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	104520 lb
In	10/27/2010 07:02:49	Scales	JSCHROD1		Tare	39060 lb
Out	10/27/2010 07:19:11	Scales	JSCHROD1		Net	65460 lb
					Tons	32.73

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dth- 100		32.73	Tons	18.00		\$589.14	Clearwater
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
3 ENUFEE\$2.34-ENV FE 100		32.73	Tons	2.34		\$76.59	Clearwater

Total Tax  
Total Ticket \$1589.73

DRIVER: JERROD



Graham Road Facility  
1020 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367755

Customer Name	ENV QUALITY MGMT Environmental	Carrier	KIES KISSLER ENTERPRISES
Ticket Date	10/27/2010	Vehicle#	JERROD
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	JERROD HARWOOD
Hauling Ticket#		Check#	
Route		Billing #	0001231
State Waste Code		Gen EPA ID	N/A
Manifest	0		
Destination		Grid	
PO	17015		
Profile	102491WA (SOIL WITH LESS THAN 1% ASBESTOS)		
Generator	WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO		

	Time	Scale	Operator	Inbound	Gross	
In	10/27/2010 07:08:42	Scale1	JSCHROD1		Tare	103900 lb
Out	10/27/2010 07:21:27	Scale1	JSCHROD1		Net	38360 lb
					Tons	55620 lb
						32.81

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/MSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.81	Tons	18.00		\$590.58	Clearwater
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
3 ENVFEE\$2.34-ENV FE 100		32.81	Tons	2.34		\$76.78	Clearwater

Total Tax  
Total Ticket \$1391.36



Graham Road Facility  
 1820 S. Graham Road  
 Medical Lake, WA, 99022  
 Ph: (509)244-0151

Original  
 Ticket# 367829

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
 Ticket Date 10/27/2010 Vehicle# JAY Volume  
 Payment Type Credit Account Container  
 Manual Ticket# Driver JAY DELOSREYES  
 Hauling Ticket# Check#  
 Route Billing # 0001231  
 State Waste Code Gen EPA ID N/A  
 Manifest @  
 Destination Grid  
 PO 17015  
 Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
 Generator WA-US EPA REGION 10 OROFINO ID US EPA REGION 10 OROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/27/2010 13:31:57	Scale1	dbrooks		102560 lb	
Out	10/27/2010 13:48:12	Scale1	dbrooks		38420 lb	
					Net	64440 lb
					Tons	32.22

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/MSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.22	Tons	18.00		\$579.96	Clearwater
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
3 ENVFEE\$2.34-ENV FE 100		32.22	Tons	2.34		\$75.39	Clearwater

Total Tax  
 Total Ticket \$1579.35

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367832

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/27/2010 Vehicle# JERROD Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JERROD HARWOOD  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @ Grid  
Destination  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 GROFIND ID US EPA REGION 10 GROFIND IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/27/2010 13:50:57	Scale1	dbrooks		Tare	106540 lb
Out	10/27/2010 14:00:05	Scale1	dbrooks		Net	38260 lb
					Tons	68280 lb
						34.14

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		34.14	Tons	18.00		\$614.52	Clearwater
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
3 ENVFEE\$2.34-ENV FE 100		34.14	Tons	2.34		\$79.89	Clearwater

Total Tax  
Total Ticket \$1618.41

DRIVER'S SIGNATURE



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367856

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/28/2010 Vehicle# JAY Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JAY DELOSREYES  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 GROFIND ID US EPA REGION 10 GROFIND IDAHO

Time	Scale	Operator	Inbound	Gross	
In 10/28/2010 07:12:27	Scale1	dbrooks		103120	1b
Out 10/28/2010 07:23:04	Scale1	dbrooks		30320	1b
				Net	64800 1b
				Tons	32.40

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT PROPER PACKAGED- W/WSR

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.40	Tons	15.00		\$486.00	Clearwater
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
3 ENVFEE\$2.34-ENV FE 100		32.40	Tons	2.34		\$75.82	Clearwater

Total Tax  
Total Ticket \$1583.02



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367857

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/28/2010 Vehicle# JERROD Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JERROD HARWOOD  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFING ID US EPA REGION 10 DROFING IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/28/2010 07:14:13	Scale1	dbrooks		103140 lb	
Out	10/28/2010 07:27:23	Scale1	dbrooks		38200 lb	
					Net	64940 lb
					Tons	32.47

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED-- N/A/R

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
Spwaste Solid Dth- 100		32.47	Tons	18.00		\$584.46	Clearwater
TRANSFEE\$524.00-TR 100		1	Load	\$24.00		\$24.00	Clearwater
ENVFEE\$2.34-ENV FE 100		32.47	Tons	2.34		\$75.98	Clearwater

Total Tax  
Total Ticket \$1584.44

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367945

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/28/2010 Vehicle# JAY Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JAY DELOSREYES  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest @  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 ORDFINO ID US EPA REGION 10 ORDFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/28/2010 13:42:19	Scale1	JSCHROD1		Tare	104360 lb
Out	10/28/2010 13:59:00	Scale1	JSCHROD1		Net	38460 lb
					Tons	65900 lb
						32.95

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.95	Tons	18.00		\$593.10	Clearwater
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
3 ENVFEE\$2.34-ENV FE 100		32.95	Tons	2.34		\$77.10	Clearwater

Total Tax  
Total Ticket \$1594.20



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367978

Customer Name ENV QUALITY MGMT Environmental Carrier KISS KISSLER ENTERPRISES

Ticket Date 10/29/2010

Payment Type Credit Account

Manual Ticket#

Hauling Ticket#

Route

State Waste Code

Manifest 0

Destination

PO 17015

Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)

Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAND

Vehicle# JAY

Container

Driver JAY DELOSREYES

Check#

Billing # 0001231

Gen EPA ID N/A

Grid

Volume

Environmental Quality Mgmt Inc  
Received

NOV 1 2010

Seattle

	Time	Scale	Operator	Inbound	Gross	
In	10/29/2010 07:50:05	Scale1	JSCHROD1		102300 lb	
Out	10/29/2010 08:02:05	Scale1	JSCHROD1		30340 lb	
					Net	63960 lb
					Tons	31.98

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LDX	Qty	UDM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		31.98	Tons	18.00		\$575.64	Clearwater
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
ENVFEE\$2.34-ENV FE 100		31.98	Tons	2.34		\$74.83	Clearwater

Total Tax  
Total Ticket \$1574.47

D-80

10-29-10:02:00PM



Graham Road Facility  
1020 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 360022

Customer Name ENV QUALITY NGMT Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/29/2010 Vehicle# JERROD  
Payment Type Credit Account Container  
Manual Ticket# Driver JERROD HARWOOD Environmental Quality Mgmt Inc  
Hauling Ticket# Check# Received  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAHO

NOV 1 2010

Seattle

Time	Scale	Operator	Inbound	Gross	
In 10/29/2010 11:13:29	Scale1	dbrooks		103840 lb	
Out 10/29/2010 11:20:40	Scale1	dbrooks		38040 lb	
				Net 65800 lb	
				Tons 32.90	

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DERRIS/EXCEPT; PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth-	100	32.90	Tons	18.00		\$592.20	Clearwater
2 TRANSFEE\$924.00-TR	100	1	Load	924.00		\$924.00	Clearwater
3 ENVFEE\$2.34-ENV FE	100	32.90	Tons	2.34		\$76.99	Clearwater

Please send to Pam

Total Tax  
Total Ticket \$1593.19

D-81

10-29-10:02:00PM



# 1/ 3

Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 369048

Customer Name ENV QUALITY MBMT Environmental Carrier KISS KISSLER ENTERPRISES

Ticket Date 10/29/2010

Vehicle# JAY

Volume

Payment Type Credit Account

Container

Manual Ticket#

Driver JAY DELOSREYES

Environmental Quality Mgmt Inc  
Received

Hauling Ticket#

Check#

Route

Billing # 0001231

State Waste Code

Gen EPA ID N/A

NOV 1 2010

Manifest 0

Destination

Grid

PO 17015

Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)

Seattle

Generator WA-US EPA REGION 10 DROFINO ID US EPA REGION 10 DROFINO IDAHO

	Time	Scale	Operator	Inbound	Gross	
In	10/29/2010 14:37:51	Scale1	DBROOKS			101620 lb
Out	10/29/2010 14:54:23	Scale1	DBROOKS		Tare	47440 lb
					Net	54180 lb
					Tons	27.09

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Dth- 100		27.09	Tons	18.00		\$487.62	Clearwater
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
3 ENVFEE\$2.34-ENV FE 100		27.09	Tons	2.34		\$63.39	Clearwater

Total Tax  
Total Ticket \$1475.01

D-82

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 367948

Customer Name ENV QUALITY MGMT. Environmental Carrier KISS KISSLER ENTERPRISES  
Ticket Date 10/28/2010 Vehicle# JERROD Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver JERROD HARWOOD Environmental Quality Mgmt Inc  
Hauling Ticket# Check# Received  
Route Billing # 0001231  
State Waste Code Gen EPA ID N/A  
Manifest 0  
Destination Grid  
PO 17015  
Profile 102491WA (SOIL WITH LESS THAN 1% ASBESTOS)  
Generator WA-US EPA REGION 10 DROFIND ID US EPA REGION 10 DROFIND IDAND

NOV 1 2010

Seattle

	Time	Scale	Operator	Inbound	Gross	
In	10/28/2010 14:01:32	Scale1	JSCHROD1		103580 lb	
Out	10/28/2010 14:12:10	Scale1	JSCHROD1		37880 lb	
					Net	65700 lb
					Tons	32.85

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT: PROPER PACKAGED- W/WSR

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Spwaste Solid Oth- 100		32.85	Tons	18.00		\$591.30	Clearwater
2 TRANSFEE\$924.00-TR 100		1	Load	924.00		\$924.00	Clearwater
3 ENVFEE\$2.34-ENV FE 100		32.85	Tons	2.34		\$76.87	Clearwater

Total Tax  
Total Ticket \$1592.17

Driver's Signature



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 358064

Customer Name ENV QUALITY MGMT Environmental Carrier EDM  
Ticket Date 11/01/2010 Vehicle# PAT Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver PAT WALTERS  
Hauling Ticket# Check#  
Route Billing # 0001231  
State Waste Code Gen EPA ID  
Manifest  
Destination Grid  
PO DROFIND ACM SITE  
Profile ()  
Generator

	Time	Scale	Operator	Inbound	Gross
In	11/01/2010 07:57:52	Scale1	DBROOKS		Tare
Out	11/01/2010 07:57:52		DBROOKS		Net
					Tons

8740  
8420  
320  
116

Comments

MY SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

Product	LD%	Qty	UDM	Rate	Tax	Amount	Origin
1 ASB-ASBESTOS	100	1.50	Yards	25.30	1.37	\$37.95	Clearwater
2 FUEL-Fuel Surcharg	100		%	4.66		\$2.56	
3 EVF-S-Standard Env	100	1	Load	5.00		\$5.00	
4 WEI-WEIGH ONLY	100	1	Each	12.00		\$12.00	

Total Tax \$1.37  
Total Ticket \$58.88

ture



Graham Road Facility  
1820 S. Graham Road  
Medical Lake, WA, 99022  
Ph: (509)244-0151

Original  
Ticket# 368305

ENV QUALITY MGMT Environmental Carrier EQM  
11/03/2010 Vehicle# PAT Volume  
Credit Account Container  
# Driver PAT WALTERS  
# Check#  
Billing # 0001231  
Gen EPA ID

DROFIND ACMSITE  
( )

Grid

	Scale	Operator	Inbound	Gross
.0 14:19:01	Scale1	dbrooks		Tare
.0 14:19:01		dbrooks		Net
				Tons

SIGNATURE CERTIFIES NON-ASBESTOS DEBRIS/EXCEPT:PROPER PACKAGED- W/WSR

	LD%	Qty	UOM	Rate	Tax	Amount	Origin
STOS	100	0.30	Yards	25.30	0.91	\$25.30	Clearwater
Surcharg	100		%	4.66		\$1.41	
Standard Env	100	1	Load	5.00		\$5.00	

Total Tax \$0.91  
Total Ticket \$32.62

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# **E Analytical Data Reports**

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# ecology and environment, inc.

International Specialists in the Environment

720 Third Avenue, Suite 1700, Seattle, WA 98104

Tel: (206) 624-9537, Fax: (206) 621-9832

## MEMORANDUM

DATE: December 8, 2010

TO: Daniel Wright, START-3 Project Manager, E & E, Seattle, WA

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, WA *MW*

SUBJ: **Data Quality Assurance Review, Orofino Asbestos Site,  
Orofino, Idaho**

REF: TDD: 10-09-0008

PAN: 002233.0603.01RZ

The data quality assurance review of 111 samples collected from the Orofino Asbestos site in Orofino, Idaho, has been completed. Phase contrast microscopy (PCM; NIOSH Method 7400), transmission electron microscopy (TEM; ISO Method 10312 or ASM Method D 5755-03), and polarized light microscopy (PLM; EPA-600/R-93/116 or CARB 435 methods) asbestos analyses were performed by Forensic Analytical Laboratories, Inc., Hayward, California.

The samples were numbered:

10100101	10100102	10100103	10100104	10100105
10100106	10100107	10100108	10100109	10100110
10100111	10100112	10100113	10100114	10100115
10100116	10100117	10100118	10100119	10100120
10100121	10100122	10100123	10100124	10100125
10100126	10100127	10100128	10100129	10100130
10100131	10100132	10100133	10100134	10100135
10100136	10100137	10100138	10100139	10100140
10100141	10100142	10100143	10100144	10100145
10100146	10100147	10100148	10100149	10100150
10100151	10100152	10100153	10100154	10100155
10100156	10100157	10100158	10100159	10100160
10100161	10100162	10100163	10100164	10100165
10100166	10100167	10100168	10100169	10100170
10100171	10100172	10100173	10100174	10100175
10100176				

10100301	10100302	10100303	10100304	10100305
10100306	10100307	10100308	10100309	10100310
10100311	10100312	10100313	10100314	10100315
10100316	10100317	10100319	10100320	10100321
10100322	10100324	10100325	10100326	10100327
10100328				

10JN-0001	10JN-0002	10JN-0003	10JN-0004	10JN-0005
10JN-0006	10JN-0007	10JN-0008	10JN-0009	

#### Data Qualifications:

The samples were collected between October 8 and 29, 2010, were received at the laboratory between October 18 and November 1, 2010, and were analyzed by November 11, 2010. The following items were noted in the laboratory case narrative:

Samples 10100139, 10100151, and 10100155 were received damaged at the laboratory and couldn't be analyzed; sample 10100151 was selected by the START project manager to replace sample 10100152.

The filters for samples 10100118 and 10100119 were loaded with particulates which may affect the sample results; no actions were taken based on these issues.

The results for samples 10100140 through 10100142 and 10100169 through 10100172 were used to blank-correct other sample results.

Sample 10100314 and 10100315 were inadvertently listed on the chain-of-custody forms for two separate sample delivery groups; no actions were taken based on these issues.

The overall usefulness of the data is based on the criteria outlined in the Site-Specific Sampling Plan and/or Sampling and Quality Assurance Plan, the OSWER Guidance Document "Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan, and Data Validation Procedures" (EPA/540/G-90/004) and the analytical methods. Based upon the information provided, the data are acceptable for use with the above stated data qualifications.

#### Data Qualifiers and Definitions

- J - The associated numerical value is an estimated quantity because the reported concentrations were less than the sample detection limits but greater than the instrument detection limits or because quality control criteria limits were not met.
- U - The material was analyzed for but was not detected. The associated numerical value is the sample quantitation limit.
- UJ - The material was analyzed for, but not detected. The reported detection limit is estimated because quality control criteria were not met.



# Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Ecology & Environment, Inc.  
Steve Hall  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: B140852  
Date Received: 10/16/10  
Date Analyzed: 10/19/10  
Date Printed: 12/03/10  
First Reported: 10/19/10

Job ID/Site: No. 10-101510-095115-001/10JN

FALI Job ID: L1227-3

Date(s) Collected: 10/15/2010

Total Samples Submitted: 1

Total Samples Analyzed: 1

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
10100302	11041353	Chrysotile	30 %				
Layer: Grey Semi-Fibrous Material							
Total Composite Values of Fibrous Components:		Asbestos (30%)					
Cellulose (Trace)							

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



# Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: B141025  
Date Received: 10/20/10  
Date Analyzed: 11/03/10  
Date Printed: 11/03/10  
First Reported: 11/03/10

Job ID/Site: No. 10-101910-073325-0003 - 10JN

FALI Job ID: L1227-3

Date(s) Collected: 10/18/2010

Total Samples Submitted: 2

Total Samples Analyzed: 2

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
10100304	11043004	Chrysotile	30 %				
Layer: Grey Semi-Fibrous Material							
Total Composite Values of Fibrous Components:		Asbestos (30%)					
Cellulose (Trace)							
10100306	11043005	Chrysotile	30 %				
Layer: Grey Semi-Fibrous Material							
Total Composite Values of Fibrous Components:		Asbestos (30%)					
Cellulose (Trace)							

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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# Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: B141058  
Date Received: 10/21/10  
Date Analyzed: 11/04/10  
Date Printed: 12/03/10  
First Reported: 11/04/10

Job ID/Site: No. 10-102010-073012-004/10JN

FALI Job ID: L1227-3

Date(s) Collected: 10/19/2010

Total Samples Submitted: 1

Total Samples Analyzed: 1

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
10100309	11043355						
Layer: Grey Semi-Fibrous Material		Chrysotile	25 %	Crocidolite	5 %		
Total Composite Values of Fibrous Components:		Asbestos (30%)					
Cellulose (Trace)							

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%, 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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# Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Ecology & Environment, Inc.  
Steve Hall  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: B141273  
Date Received: 10/22/10  
Date Analyzed: 11/05/10  
Date Printed: 12/03/10  
First Reported: 11/05/10

Job ID/Site: 10-102110-073027-005/10JN

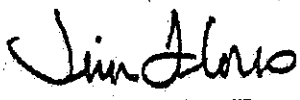
FALI Job ID: L1227-3

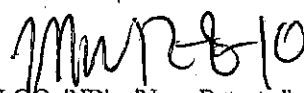
Date(s) Collected: 10/20/2010

Total Samples Submitted: 2

Total Samples Analyzed: 2

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
10100310	11045575						
Layer: Grey Semi-Fibrous Material		Chrysotile	20 %				
Total Composite Values of Fibrous Components:		Asbestos (20%)					
Cellulose (Trace)							
10100312	11045576						
Layer: Grey Semi-Fibrous Material		Chrysotile	20 %				
Total Composite Values of Fibrous Components:		Asbestos (20%)					
Cellulose (Trace)							

  
James Flores, Laboratory Supervisor, Hayward Laboratory



Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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# Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: B141139  
Date Received: 10/23/10  
Date Analyzed: 11/05/10  
Date Printed: 12/03/10  
First Reported: 11/05/10

Job ID/Site: 10-102210-075058-0006/10JN

FALI Job ID: L1227-3

Date(s) Collected: 10/21/2010

Total Samples Submitted: 1

Total Samples Analyzed: 1

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
10100316	11044180						
Layer: Grey Semi-Fibrous Material		Chrysotile	20 %				
Total Composite Values of Fibrous Components:		Asbestos (20%)					
Cellulose (Trace)							

*Jim Flores*  
James Flores, Laboratory Supervisor, Hayward Laboratory

*MW 12810*

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



# Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Ecology & Environment, Inc.  
Steve Hall  
720 3rd Ave., Suite 1700

Seattle, WA 98104

Client ID: L1227  
Report Number: B141173  
Date Received: 10/25/10  
Date Analyzed: 11/08/10  
Date Printed: 12/03/10  
First Reported: 11/08/10

Job ID/Site: 10-102210-171231-0007/10JN


FALI Job ID: L1227-3

Date(s) Collected:

Total Samples Submitted: 3

Total Samples Analyzed: 3

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
10100314	11044436	Chrysotile	20 %				
Layer: Grey Semi-Fibrous Material							
Total Composite Values of Fibrous Components:		Asbestos (20%)					
Cellulose (Trace)							
10100320	11044437	Chrysotile	20 %				
Layer: Grey Semi-Fibrous Material							
Total Composite Values of Fibrous Components:		Asbestos (20%)					
Cellulose (Trace)							
10100322	11044438	Chrysotile	20 %				
Layer: Grey Semi-Fibrous Material							
Total Composite Values of Fibrous Components:		Asbestos (20%)					
Cellulose (Trace)							

  
James Flores, Laboratory Supervisor, Hayward Laboratory



Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



# Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: B141365  
Date Received: 10/27/10  
Date Analyzed: 11/11/10  
Date Printed: 12/03/10  
First Reported: 11/11/10

Job ID/Site: 10-102610-071726-0008/10JN

FALI Job ID: L1227-3

Date(s) Collected: 10/25/2010

Total Samples Submitted: 1

Total Samples Analyzed: 1

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
10100325	11046549	Chrysotile	20 %				
Layer: Grey Semi-Fibrous Material							
Total Composite Values of Fibrous Components:		Asbestos (20%)					
Cellulose (Trace)							

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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# Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700

Seattle, WA 98104

Client ID: L1227  
Report Number: B141367  
Date Received: 10/28/10  
Date Analyzed: 11/11/10  
Date Printed: 12/03/10  
First Reported: 11/11/10

Job ID/Site: 10-102710-085015-009/10JN

FALI Job ID: L1227-3

Date(s) Collected: 10/26/10, 10/27/10

Total Samples Submitted: 2

Total Samples Analyzed: 1

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
10100326	11046559	Chrysotile	20 %	Crocidolite	3 %		
Layer: Grey Semi-Fibrous Material							
Total Composite Values of Fibrous Components:		Asbestos (23%)					
Cellulose (Trace)							

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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# Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Ecology & Environment, Inc.  
Steve Hall  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: A117094  
Date Received: 10/17/10  
Date Analyzed: 10/18/10  
Date Printed: 12/03/10  
First Reported: 10/18/10

Job ID/Site: No. 10-101510-095115-0001/10JN

FALI Job ID: L1227-3  
Total Samples Submitted: 12  
Total Samples Analyzed: 12

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	95% UCL	Fibers/cc
10100101	11041358	10/14/10	4431.7	0.0	100	0.001	0.002	< 0.001
10100102	11041359	10/14/10	4527.6	2.5	100	0.001	0.002	< 0.001
10100103	11041360	10/14/10	4354.4	2.5	100	0.001	0.002	< 0.001
10100104	11041361	10/14/10	4526.5	2.5	100	0.001	0.002	< 0.001
10100105	11041362	10/14/10	4551.3	4.0	100	0.001	0.002	< 0.001
10100107	11041364	10/14/10	676.5	7.5	100	0.004	0.020	0.005
10100108	11041365	10/14/10	687.7	10.5	100	0.004	0.027	0.007
10100109	11041366	10/14/10	713.2	4.0	100	0.004	0.015	< 0.004
10100110	11041367	10/14/10	680.1	1.5	100	0.004	0.016	< 0.004
10100114	11041368	10/14/10	1783.6	0.0	100	0.002	0.006	< 0.002
10100115	11041369	10/14/10	1930.3	2.5	100	0.001	0.006	< 0.001
10100116	11041370	10/14/10	1895.2	2.0	100	0.001	0.006	< 0.001

mw 12-8-10

1 of 2



# Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Ecology & Environment, Inc.  
Steve Hall  
720 3rd Ave., Suite 1700  
  
Seattle, WA 98104

Client ID: L1227  
Report Number: A117094  
Date Received: 10/17/10  
Date Analyzed: 10/18/10  
Date Printed: 12/03/10  
First Reported: 10/18/10

Job ID/Site: No. 10-101510-095115-0001/10JN

FALI Job ID: L1227-3  
Total Samples Submitted: 12  
Total Samples Analyzed: 12

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	95% UCL	Fibers/cc
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James Flores, Laboratory Supervisor, Hayward Laboratory

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2 of 2



## Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Ecology & Environment, Inc.  
Steve Hall  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: A117140  
Date Received: 10/19/10  
Date Analyzed: 10/20/10  
Date Printed: 10/20/10  
First Reported: 10/20/10

Job ID/Site: No: 10-101810-094928-0002 - Site # 10JN

FALI Job ID: L1227-3  
Total Samples Submitted: 5  
Total Samples Analyzed: 5

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	95% UCL	Fibers/cc
10100111	11041932	10/15/10	5562.7	4.5	100	<0.001	0.002	<0.001
10100112	11041933	10/15/10	5276.0	1.5	100	0.001	0.002	<0.001
10100113	11041934	10/15/10	5223.5	1.0	100	0.001	0.002	<0.001
10100118	11041935	10/15/10	1752.1	0.0	100	0.002	0.006	<0.002
Comments:	Filter loaded with particulate which may affect analytical result.							
10100119	11041936	10/15/10	1745.1	0.5	100	0.002	0.006	<0.002

Comments: Filter loaded with particulate which may affect analytical result.

James Flores, Laboratory Supervisor, Hayward Laboratory

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# Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
  
Seattle, WA 98104

Client ID: L1227  
Report Number: A117179  
Date Received: 10/20/10  
Date Analyzed: 10/20/10  
Date Printed: 10/20/10  
First Reported: 10/20/10

Job ID/Site: No. 10-101910-073325-0003 - 10JN

FALI Job ID: L1227-3  
Total Samples Submitted: 10  
Total Samples Analyzed: 10

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	95% UCL	Fibers/cc
10100121	11042760	10/18/10	2117.9	0.0	100	0.001	0.005	< 0.001
10100122	11042761	10/18/10	2124.4	1.0	100	0.001	0.005	< 0.001
10100123	11042762	10/18/10	6749.5	1.5	100	<0.001	0.002	<0.001
10100124	11042763	10/18/10	6547.9	2.5	100	<0.001	0.002	<0.001
10100125	11042764	10/18/10	6672.2	0.0	100	<0.001	0.002	<0.001
10100126	11042765	10/18/10	722.7	8.0	100	0.004	0.020	0.005
10100127	11042766	10/18/10	691.9	5.0	100	0.004	0.015	< 0.004
10100128	11042767	10/18/10	1913.7	2.0	100	0.001	0.006	< 0.001
10100129	11042768	10/18/10	1900.0	0.5	100	0.001	0.006	< 0.001
10100130	11042769	10/18/10	1926.8	0.0	100	0.001	0.006	< 0.001

*James Flores*  
James Flores, Laboratory Supervisor, Hayward Laboratory

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1 of 1



# Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: A117207  
Date Received: 10/21/10  
Date Analyzed: 10/22/10  
Date Printed: 12/03/10  
First Reported: 10/22/10

Job ID/Site: No. 10-102010-073012-0004/10JN

FALI Job ID: L1227-3  
Total Samples Submitted: 3  
Total Samples Analyzed: 3

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	95% UCL	Fibers/cc
10100131	11043264	10/19/10	6638.8	2.5	100	<0.001	0.002	<0.001
10100132	11043265	10/19/10	6337.8	1.0	100	<0.001	0.002	<0.001
10100133	11043266	10/19/10	6705.1	7.0	100	<0.001	0.002	0.001

*Jim Flores*  
James Flores, Laboratory Supervisor, Hayward Laboratory

*mm 12/8/10*

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1 of 1



# Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
  
Seattle, WA 98104

Client ID: L1227  
Report Number: A117265  
Date Received: 10/22/10  
Date Analyzed: 10/25/10  
Date Printed: 10/25/10  
First Reported: 10/25/10

Job ID/Site: No. 10-102110-073027-0005/ Site 10JN

FALI Job ID: L1227-4  
Total Samples Submitted: 9  
Total Samples Analyzed: 8

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	95% UCL	Fibers/cc
10100134	11043930	10/20/10	1502.4	0.5	100	0.002	0.007	< 0.002
10100135	11043931	10/20/10	1536.8	0.0	100	0.002	0.007	< 0.002
10100136	11043932	10/20/10	1501.9	0.0	100	0.002	0.007	< 0.002
10100137	11043933	10/20/10	2904.5	0.0	100	0.001	0.004	< 0.001
10100138	11043934	10/20/10	2982.7	3.0	100	0.001	0.004	< 0.001
10100139	11043935	10/20/10	0.0	0.0	100	NA	NA	NA

Comments: Not suitable for analysis. Filter absent/mutilated or found underneath support pad.

10100140	11043936	10/20/10	0.0	0.0	100	NA	NA	NA
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Comments: This result was used to blank correct the other samples on this report. Blank filters are reported only as number of fibers and fields counted.

10100141	11043937	10/20/10	0.0	0.0	100	NA	NA	NA
----------	----------	----------	-----	-----	-----	----	----	----

Comments: This result was used to blank correct the other samples on this report. Blank filters are reported only as number of fibers and fields counted.

10100142	11043938	10/20/10	0.0	0.0	100	NA	NA	NA
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Comments: This result was used to blank correct the other samples on this report. Blank filters are reported only as number of fibers and fields counted.

*Handwritten signature and date:*  
12/8/10



# Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
  
Seattle, WA 98104

Client ID: L1227  
Report Number: A117265  
Date Received: 10/22/10  
Date Analyzed: 10/25/10  
Date Printed: 10/25/10  
First Reported: 10/25/10

Job ID/Site: No. 10-102110-073027-0005/ Site 10JN

FALI Job ID: L1227-4  
Total Samples Submitted: 9  
Total Samples Analyzed: 8

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	95% UCL	Fibers/cc
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James Flores, Laboratory Supervisor, Hayward Laboratory

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2 of 2



# Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Ecology & Environment, Inc.  
Steve Hall  
720 3rd Ave., Suite 1700  
  
Seattle, WA 98104

Client ID: L1227  
Report Number: A117266  
Date Received: 10/22/10  
Date Analyzed: 10/25/10  
Date Printed: 10/25/10  
First Reported: 10/25/10

Job ID/Site: No. 10-102110-073027-0005/ Site# 10JN

FALI Job ID: L1227-4  
Total Samples Submitted: 4  
Total Samples Analyzed: 4

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	95% UCL	Fibers/cc
10100143	11043964	10/21/10	257.9	5.0	100	0.010	0.041	< 0.010
10100144	11043965	10/21/10	254.5	3.5	100	0.011	0.042	< 0.011
10100145	11043966	10/21/10	6873.1	2.0	100	<0.001	0.002	<0.001
10100147	11043967	10/21/10	7060.6	1.5	100	<0.001	0.002	<0.001

James Flores, Laboratory Supervisor, Hayward Laboratory

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1 of 1



## Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'


Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
  
Seattle, WA 98104

Client ID: L1227  
Report Number: A117281  
Date Received: 10/23/10  
Date Analyzed: 10/26/10  
Date Printed: 10/26/10  
First Reported: 10/26/10

Job ID/Site: 10-102210-075058-0006 - #10JN

FALI Job ID: L1227-5  
Total Samples Submitted: 5  
Total Samples Analyzed: 5

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	95% UCL	Fibers/cc
10100148	11044193	10/21/10	6106.2	1.0	100	<0.001	0.002	<0.001
10100149	11044194	10/21/10	6293.7	0.5	100	<0.001	0.002	<0.001
10100150	11044195	10/21/10	6653.4	0.0	100	<0.001	0.002	<0.001
10100152	11044196	10/21/10	2314.7	2.0	100	0.001	0.005	< 0.001
10100153	11044197	10/21/10	2366.6	0.5	100	0.001	0.005	< 0.001

  
James Flores, Laboratory Supervisor, Hayward Laboratory

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1 of 1



## Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
  
Seattle, WA 98104

Client ID: L1227  
Report Number: A117308  
Date Received: 10/25/10  
Date Analyzed: 10/26/10  
Date Printed: 12/03/10  
First Reported: 10/26/10

Job ID/Site: 10-102210-171231-0007/10JN

FALI Job ID: L1227-3  
Total Samples Submitted: 8  
Total Samples Analyzed: 7

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	95% UCL	Fibers/cc
10100154	11044428	10/22/10	999.5	1.0	100	0.003	0.011	< 0.003
10100155	11044429	10/22/10	0.0	0.0	100	NA	NA	NA
Comments: Not suitable for analysis. Sample overloaded with particulate.								
10100156	11044430	10/22/10	984.8	0.0	100	0.003	0.011	< 0.003
10100157	11044431	10/22/10	6035.6	0.5	100	<0.001	0.002	<0.001
10100158	11044432	10/22/10	5884.4	2.0	100	<0.001	0.002	<0.001
10100159	11044433	10/22/10	5913.2	2.0	100	<0.001	0.002	<0.001
10100161	11044434	10/22/10	1318.1	1.0	100	0.002	0.008	< 0.002
10100162	11044435	10/22/10	1393.1	1.0	100	0.002	0.008	< 0.002

*Jim Flores*  
James Flores, Laboratory Supervisor, Hayward Laboratory

*MW 12-8-10*

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1 of 1



# Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'


Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
  
Seattle, WA 98104

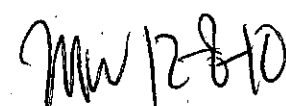
Client ID: L1227  
Report Number: A117371  
Date Received: 10/27/10  
Date Analyzed: 10/28/10  
Date Printed: 12/03/10  
First Reported: 10/28/10

Job ID/Site: 10-102610-071726-0008/10JN

FALI Job ID: L1227-3  
Total Samples Submitted: 6  
Total Samples Analyzed: 6

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	95% UCL	Fibers/cc
10100163	11045410	10/25/10	2142.5	0.0	100	0.001	0.005	< 0.001
10100164	11045411	10/25/10	2195.3	0.0	100	0.001	0.005	< 0.001
10100165	11045412	10/25/10	2196.3	0.0	100	0.001	0.005	< 0.001
10100166	11045413	10/25/10	4420.3	5.5	100	0.001	0.002	< 0.001
10100167	11045414	10/25/10	4384.5	0.5	100	0.001	0.002	< 0.001
10100168	11045415	10/25/10	4412.2	12.0	100	0.001	0.005	0.001

  
James Flores, Laboratory Supervisor, Hayward Laboratory



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1 of 1



# Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2; 15 August 1994, counting rules 'A'

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700

Seattle, WA 98104

Client ID: L1227  
Report Number: A117398  
Date Received: 10/28/10  
Date Analyzed: 10/29/10  
Date Printed: 12/03/10  
First Reported: 10/29/10

Job ID/Site: 10-102710-131009-0010/10JN

FALI Job ID: L1227-3  
Total Samples Submitted: 4  
Total Samples Analyzed: 4

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	95% UCL	Fibers/cc
10100169	11045993	10/27/10	0.0	0.0	100	NA	NA	NA

Comments: This result was used to blank correct the other samples on this report. Blank filters are reported only as number of fibers and fields counted.

10100170	11045994	10/27/10	0.0	0.0	100	NA	NA	NA
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Comments: This result was used to blank correct the other samples on this report. Blank filters are reported only as number of fibers and fields counted.

10100171	11045995	10/27/10	0.0	0.0	100	NA	NA	NA
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Comments: This result was used to blank correct the other samples on this report. Blank filters are reported only as number of fibers and fields counted.

10100172	11045996	10/27/10	0.0	0.0	100	NA	NA	NA
----------	----------	----------	-----	-----	-----	----	----	----

Comments: This result was used to blank correct the other samples on this report. Blank filters are reported only as number of fibers and fields counted.

James Flores, Laboratory Supervisor, Hayward Laboratory

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1 of 1



# Airborne Fiber Analysis

NIOSH 7400 Method, Issue 2, 15 August 1994, counting rules 'A'

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: A117505  
Date Received: 11/01/10  
Date Analyzed: 11/02/10  
Date Printed: 12/03/10  
First Reported: 11/02/10

Job ID/Site: 10-102910-120433-0011/10JN

FALI Job ID: L1227-3  
Total Samples Submitted: 3  
Total Samples Analyzed: 3

Sample ID	Lab Number	Date Collected	Volume (L)	Fibers	Fields	LOD F/cc	95% UCL	Fibers/cc
10100174	11047216	10/28/10	3750.5	0.5	100	0.001	0.003	< 0.001 V
10100175	11047217	10/28/10	3773.8	1.0	100	0.001	0.003	< 0.001 V
10100176	11047218	10/28/10	3707.8	1.0	100	0.001	0.003	< 0.001 V

James Flores, Laboratory Supervisor, Hayward Laboratory

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1 of 1



**Method:** ISO 10312

Client Number: L1227  
Report Number: T019179  
Date Received: 10/18/10  
Date Reported: 10/25/10

Page: 1 of 2

Site: 10JN

**Mark Floyd, Analytical Microscopy Supervisor**

\* Asbestos types: CH=chrysotile; AM=amosite; CR=crocidolite; TR=tremolite; AC=actinolite; AN=anthophyllite; ND=none detected

3777 Depot Road, Suite 409, Hayward, California 94545 Telephone: 510-887-8828 Fax: 510-887-4218 [www.forensica.com](http://www.forensica.com)

MW  
12810

**Detailed Asbestos Analysis Report**  
**Transmission Electron Microscopy**

Method: ISO 10312

Client:  
Ecology & Environment Inc  
Steve Hall  
720 3rd Ave, Suite 1700  
Seattle WA 98104

Page: 2 of 2  
Client Number: L1227  
Report Number: T019179  
Date Received: 10/18/2010  
Date Reported: 10/25/2010

Date Collected: 10/14/10

Site: 10JN

Location:

P.O. Number:

Job ID:

Filter size/Medium: 25mm MCEF

Filter Pore size,  $\mu\text{m}$ : 0.45**Detailed Analytical Results**

Lab Sample Number:	20078878				
<b>Analytical Parameters</b>					
Air Volume Sampled, liters:	4598.76				
Filter Area, $\text{mm}^2$ :	385				
Grid Opening Area, $\text{mm}^2$ :	0.013				
Grid Openings Analyzed:	7				
Area Analyzed, $\text{mm}^2$ :	0.091				
Analytical Sensitivity, str/cc:	0.0009				
<b>Structure Type &amp; Size Dist'n</b>					
Fibers Counted, $<5\mu\text{m}$					
Fibers Counted, $>5\mu\text{m}$					
Fibers Counted, Total					
Structures Counted, $<5\mu\text{m}$ :	23				
Structures Counted, $>5\mu\text{m}$ :					
Structures Counted, Total:	23				
Asbestos Type(s) Observed*:	CH				
<b>Asbestos Concentration:</b>					
Fibers per cubic centimeter:	$<0.0009$ U				
Structures per cubic centimeter:	0.0212				
Structures per $\text{mm}^2$ :	252.7				
Comments**:					

\* Asbestos types: CH=chrysotile, AM=amosite, CR=crocidolite, TR=tremolite, AC=actinolite, AN=anthophyllite,  
ND=none detected.

\*\*Comments: BL=Blank sample; only fibers, structures and asbestos type(s) are reported; NC=Sample not prepared or analyzed;  
OV=Sample prepared but not analyzed due to overloading; PF=Sample prepared but not analyzed.

mw 128/10

National Asbestos Data Entry Spreadsheet (NADES) for Air & Dust Analysis by Superfund TEM  
ANALYTICAL REPORT

SAMPLE/ANALYSIS INFORMATION				ANALYSIS PARAMETERS	
Field Sample Number	10100106	Lab Sample Number	20078878	Effective filter area (mm <sup>2</sup> )	385
Media	Air	Preparation	Direct	F-factor	1.00E+00
Sample Type	Field Sample	Sample Status	Analyzed	Grid opening area (mm <sup>2</sup> )	0.0130
Air Volume (L)	4598.8	Analysis Date	#####	# GOs counted	7
QA Sample Type	Nol QC	Method SOP	EPASM (v1)	Sensitivity (1/cc)	9.2E-04
Stopping Rule(s): GO = 10, Structures = 100, Sensitivity = 1.00E-03					

Desired Confidence Interval (%): 90

Number of Structures with Fatal Data Entry Errors: 0  
(Structures with fatal errors are excluded from calculations below)

Mineral Class	Number of Structures (a)	Loading on Filter (b) (s/mm <sup>2</sup> )	Air Conc (c) (s/cc)	90% Confidence Interval	
<b>Total TEM-EPASM Structures</b>					<b>Binning Rule Description:</b>
Total Asbestos	26	2.9E+02	2.4E-02	1.7E-02 - 3.3E-02	Apply to fibers (F) only: L ≥ 0.5µm, AR ≥ 3  No restrictions for other structure types.
Total Chrysotile (CH)	26	2.9E+02	2.4E-02	1.7E-02 - 3.3E-02	
Total Amphibole	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
actinolite (AC)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
amosite (AM)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
anthophyllite (AN)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
crocidolite (CR)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
tremolite (TR)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
Libby amphibole (LA)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
other amphibole (OA)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
other mineral class (OM)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
Solid Soln: Amosite	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
Solid Soln: Trem-Acl	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
<b>PCM Equivalent Structures (PCME)</b>					<b>Binning Rule Description:</b>
Total Asbestos	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	Apply to all structures where Total column > 0:  L > 5µm, W ≥ 0.25µm and W ≤ 3µm, AR ≥ 3
Total Chrysotile (CH)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
Total Amphibole	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
actinolite (AC)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
amosite (AM)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
anthophyllite (AN)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
crocidolite (CR)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
tremolite (TR)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
Libby amphibole (LA)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
other amphibole (OA)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
other mineral class (OM)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
Solid Soln: Amosite	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
Solid Soln: Trem-Acl	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
<b>AHERA (d) Structures</b>					<b>Binning Rule Description:</b>
Total Asbestos	23	2.5E+02	2.1E-02	1.4E-02 - 3.0E-02	Apply to fibers (F) only: L ≥ 0.5µm, AR ≥ 5  No restrictions for other structure types.  Most "secondary" structures (structures that are part of a primary complex structure) are excluded.
Total Chrysotile (CH)	23	2.5E+02	2.1E-02	1.4E-02 - 3.0E-02	
Total Amphibole	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
actinolite (AC)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
amosite (AM)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
anthophyllite (AN)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
crocidolite (CR)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
tremolite (TR)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
Libby amphibole (LA)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
other amphibole (OA)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
other mineral class (OM)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
Solid Soln: Amosite	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
Solid Soln: Trem-Acl	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
<b>Berman Crump (2003) Structures</b>					<b>Binning Rule Description:</b>
Total Asbestos	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	Apply to all structures where Total column > 0: L > 10µm, W ≤ 0.4µm
Total Chrysotile (CH)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
Total Amphibole	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
actinolite (AC)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
amosite (AM)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
anthophyllite (AN)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
crocidolite (CR)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
tremolite (TR)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
Libby amphibole (LA)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
other amphibole (OA)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
other mineral class (OM)	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
Solid Soln: Amosite	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	
Solid Soln: Trem-Acl	0	0.0E+00	0.0E+00	0.0E+00 - 2.8E-03	

(a) Based on countable structures only

(b) Loading on Filter (s/mm<sup>2</sup>) = N structures / (GOs Counted \* GO Area)

(c) Air Concentration (s/cc) = (N structures \* EFA) / (GOs Counted \* GO Area \* F-factor \* Air Volume \* 1000)

Dust Loading (s/cm<sup>2</sup>) = (N structures \* EFA) / (GOs Counted \* GO Area \* F-factor \* Dust Collection Area)

(d) Yarnale results are expected to be similar to AHERA, but use of AHERA for Yarnale may be biased low due to the exclusion of structures &lt;0.5µm.

mw12-810



**Method:** ISO 10312

Client Number: L1227  
Report Number: T019184  
Date Received: 10/19/10  
Date Reported: 11/1/10

Page: 1 of 2

**Mark Floyd, Analytical Microscopy Supervisor**

\* Asbestos types: CH=chrysotile; AM=amosite; CR=crocidolite; TR=tremolite; AC=actinolite; AN=anthophyllite; ND=none detected

E-29



**Detailed Asbestos Analysis Report**  
**Transmission Electron Microscopy**  
Method: ISO 10312

Client:  
Ecology & Environment Inc  
Steve Hall  
720 3rd Ave, Suite 1700  
Seattle WA 98104

Page: 2 of 2  
Client Number: L1227  
Report Number: T019184  
Date Received: 10/19/2010  
Date Reported: 11/1/2010

Date Collected: 10/15/10  
Site: 10JN (START-3 Region X Subcontract)  
Location: 10-101810-094928-0002  
P.O. Number: 10-08-0001  
Project No: 002233.0603.01RZ

Filter size/Medium: 25mm MCEF  
Filter Pore size,  $\mu\text{m}$ : 0.45

Detailed Analytical Results					
Lab Sample Number:	20078891				
<b>Analytical Parameters</b>					
Air Volume Sampled, liters:	1717.1				
Filter Area, $\text{mm}^2$ :	385				
Grid Opening Area, $\text{mm}^2$ :	0.013				
Grid Openings Analyzed:	18				
Area Analyzed, $\text{mm}^2$ :	0.234				
Analytical Sensitivity, str/cc:	0.0010				
<b>Structure Type &amp; Size Dist'n</b>					
Fibers Counted, $<5\mu\text{m}$					
Fibers Counted, $>5\mu\text{m}$					
Fibers Counted, Total					
Structures Counted, $<5\mu\text{m}$ :					
Structures Counted, $>5\mu\text{m}$ :					
Structures Counted, Total:					
Asbestos Type(s) Observed*:	ND				
<b>Asbestos Concentration:</b>					
Fibers per cubic centimeter:	$<0.001$				
Structures per cubic centimeter:	$<0.001$				
Structures per $\text{mm}^2$ :	$<4.3$				
Comments**:					

\* Asbestos types: CH=chrysotile, AM=amosite, CR=crocidolite, TR=tremolite, AC=actinolite, AN=anthophyllite,  
ND=none detected.

\*\*Comments: BL=Blank sample; only fibers, structures and asbestos type(s) are reported; NC=Sample not prepared or analyzed;  
OV=Sample prepared but not analyzed due to overloading; PF=Sample prepared but not analyzed.

*Handwritten signature: JMW 12-8-10*



**Detailed Asbestos Analysis Report**  
**Transmission Electron Microscopy**

Method: ISO 10312

Client:  
Ecology & Environment Inc  
Steve Hall  
720 3rd Ave, Suite 1700  
Seattle WA 98104

Page: 2 of 2  
Client Number: L1227  
Report Number: T019185  
Date Received: 10/20/2010  
Date Reported: 11/3/2010

Date Collected: 10/18/10  
Site: 10JN, BR01  
Location:

P.O. Number: 10-08-0001 / 002233.0603.01RZ  
Job ID: 10-101910-073325-0003

Filter size/Medium: 25mm MCEF  
Filter Pore size,  $\mu\text{m}$ : 0.8

**Detailed Analytical Results**

Lab Sample Number:	20078892				
<b>Analytical Parameters</b>					
Air Volume Sampled, liters:	2219				
Filter Area, $\text{mm}^2$ :	385				
Grid Opening Area, $\text{mm}^2$ :	0.013				
Grid Openings Analyzed:	14				
Area Analyzed, $\text{mm}^2$ :	0.182				
Analytical Sensitivity, str/cc:	0.0010				
<b>Structure Type &amp; Size Dist'n</b>					
Fibers Counted, $<5\mu\text{m}$					
Fibers Counted, $>5\mu\text{m}$					
Fibers Counted, Total					
Structures Counted, $<5\mu\text{m}$ :					
Structures Counted, $>5\mu\text{m}$ :					
Structures Counted, Total:					
Asbestos Type(s) Observed*:	ND				
<b>Asbestos Concentration:</b>					
Fibers per cubic centimeter:	$<0.001$				
Structures per cubic centimeter:	$<0.001$				
Structures per $\text{mm}^2$ :	$<5.5$				
Comments**:					

\* Asbestos types: CH=chrysotile, AM=amosite, CR=crocidolite, TR=tremolite, AC=actinolite, AN=anthophyllite,  
ND=none detected.

\*\*Comments: BL=Blank sample; only fibers, structures and asbestos type(s) are reported; NC=Sample not prepared or analyzed;  
OV=Sample prepared but not analyzed due to overloading; PF=Sample prepared but not analyzed.



# ANALYTICAL REPORT

## Transmission Electron Microscopy

### Airborne Asbestos Analysis Summary

**Method:** ISO 10312

Ecology & Environment Inc  
Steve Hall  
720 3rd Ave, Suite 1700  
Seattle WA 98104

Client Number: L1227  
Report Number: T019201  
Date Received: 10/22/10  
Date Reported: 11/5/10

TDD No: 10-08-0001  
Project #: 002233.0603.01RZ  
Site: 10JN (START-3 Region X Subcontract)  
COC No: 10-102110-073027-0005

Page: 1 of 2

*[Signature]*

**Mark Floyd, Analytical Microscopy Supervisor**

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\* Asbestos types: CH=chrysotile; AM=amosite; CR=crocidolite; TR=tremolite; AC=actinolite; AN=anthophyllite; ND=none detected

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Mr 12810

**Detailed Asbestos Analysis Report**  
**Transmission Electron Microscopy**

Method: ISO 10312

Client:  
Ecology & Environment Inc  
Steve Hall  
720 3rd Ave, Suite 1700  
Seattle WA 98104

Page: 2 of 2  
Client Number: L1227  
Report Number: T019201  
Date Received: 10/22/2010  
Date Reported: 11/5/2010

Date Collected: 10/20/10  
Site: 10JN (START-3 Region X Subcontract)  
Location: 10-102110-073027-0005  
P.O. Number: 10-08-0001  
Project No: 002233.0603.01RZ

Filter size/Medium: 25mm MCEF  
Filter Pore size,  $\mu\text{m}$ : 0.45

**Detailed Analytical Results**

Detailed Analytical Results					
Lab Sample Number:		20078956			
<b>Analytical Parameters</b>					
Air Volume Sampled, liters:		6343			
Filter Area, $\text{mm}^2$ :		385			
Grid Opening Area, $\text{mm}^2$ :		0.013			
Grid Openings Analyzed:		5			
Area Analyzed, $\text{mm}^2$ :		0.065			
Analytical Sensitivity, str/cc:		0.0009			
<b>Structure Type &amp; Size Dist'n</b>					
Fibers Counted, $<5\mu\text{m}$					
Fibers Counted, $>5\mu\text{m}$					
Fibers Counted, Total					
Structures Counted, $<5\mu\text{m}$ :					
Structures Counted, $>5\mu\text{m}$ :					
Structures Counted, Total:					
Asbestos Type(s) Observed*:		ND			
<b>Asbestos Concentration:</b>					
Fibers per cubic centimeter:		$<0.0009$			
Structures per cubic centimeter:		$<0.0009$			
Structures per $\text{mm}^2$ :		$<15.4$			
Comments**:					

\* Asbestos types: CH=chrysotile, AM=amosite, CR=crocidolite, TR=tremolite, AC=actinolite, AN=anthophyllite,  
ND=none detected.

\*\*Comments: BL=Blank sample; only fibers, structures and asbestos type(s) are reported; NC=Sample not prepared or analyzed;  
OV=Sample prepared but not analyzed due to overloading; PF=Sample prepared but not analyzed.

*mm*  
*10-8-10*



**Method:** ISO 10312

Client Number; L1227  
Report Number; T019208  
Date Received: 10/23/10  
Date Reported: 10/25/10

Page: 1 of 2

**Mark Floyd, Analytical Microscopy Supervisor**

\* Asbestos types: CH=chrysotile; AM=amosile; CR=crocidolite; TR=tremolite; AC=actinolite; AN=anthophyllite; ND=none detected

12810



**Method:** ISO 10312

Client Number: L1227  
Report Number: T019220  
Date Received: 10/23/10  
Date Reported: 11/17/10

Page: 1 of 2

Wick

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Mr. R. D. To



## Detailed Asbestos Analysis Report

## Transmission Electron Microscopy

Method: ISO 10312

Client:  
Ecology & Environment Inc  
Steve Hall  
720 3rd Ave, Suite 1700  
Seattle WA 98104

Page: 2 of 2  
Client Number: L1227  
Report Number: T019220  
Date Received: 10/23/2010  
Date Reported: 11/17/2010

Date Collected: 10/21/10  
Site: 10JN  
Location: 10-102210-075058-0006  
P.O. Number: 10-08-0001  
Project No: 002233.0603.01RZ

Filter size/Medium: 25mm MCEF  
Filter Pore size,  $\mu\text{m}$ : 0.8

## Detailed Analytical Results

Lab Sample Number:	20079116				
<b>Analytical Parameters</b>					
Air Volume Sampled, liters:	2358.6				
Filter Area, $\text{mm}^2$ :	385				
Grid Opening Area, $\text{mm}^2$ :	0.013				
Grid Openings Analyzed:	13				
Area Analyzed, $\text{mm}^2$ :	0.169				
Analytical Sensitivity, str/cc:	0.0010				
<b>Structure Type &amp; Size Dist'n</b>					
Fibers Counted, $<5\mu\text{m}$					
Fibers Counted, $>5\mu\text{m}$					
Fibers Counted, Total					
Structures Counted, $<5\mu\text{m}$ :					
Structures Counted, $>5\mu\text{m}$ :					
Structures Counted, Total:					
Asbestos Type(s) Observed*:	ND				
<b>Asbestos Concentration:</b>					
Fibers per cubic centimeter:	$<0.001$				
Structures per cubic centimeter:	$<0.001$				
Structures per $\text{mm}^2$ :	$<5.9$ U				
Comments**:					

\* Asbestos types: CH=chrysotile, AM=amosite, CR=crocidolite, TR=tremolite, AC=actinolite, AN=anthophyllite,  
ND=none detected.

\*\*Comments: BL=Blank sample; only fibers, structures and asbestos type(s) are reported; NC=Sample not prepared or analyzed;  
OV=Sample prepared but not analyzed due to overloading; PF=Sample prepared but not analyzed.

MW  
12-8-10



**Method:** ISO 10312

Client Number: L1227  
Report Number: T019210  
Date Received: 10/25/10  
Date Reported: 11/8/10

TDD No: 10-08-0001  
Project #: 002233.0603.01RZ  
Site: 10JN (START-3 Region X Subcontract)  
COC No: 10-102210-171231-0007

Page: 1 of 2

Wick

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Mr. R. R. R.



**Detailed Asbestos Analysis Report**  
**Transmission Electron Microscopy**  
Method: ISO 10312

Client:  
Ecology & Environment Inc  
Steve Hall  
720 3rd Ave, Suite 1700  
Seattle WA 98104

Page: 2 of 2  
Client Number: L1227  
Report Number: T019210  
Date Received: 10/25/2010  
Date Reported: 11/8/2010

Date Collected: 10/22/10  
Site: 10JN (START-3 Region X Subcontract)  
Location: 10-102210-171231-0007  
P.O. Number: 10-08-0001  
Project No: 002233.0603.01RZ

Filter size/Medium: 25mm MCEF  
Filter Pore size,  $\mu\text{m}$ : 0.45

Detailed Analytical Results					
Lab Sample Number:	20079088				
<b>Analytical Parameters</b>					
Air Volume Sampled, liters:	1302.6				
Filter Area, $\text{mm}^2$ :	385				
Grid Opening Area, $\text{mm}^2$ :	0.013				
Grid Openings Analyzed:	23				
Area Analyzed, $\text{mm}^2$ :	0.299				
Analytical Sensitivity, str/cc:	0.0010				
<b>Structure Type &amp; Size Dist'n</b>					
Fibers Counted, $<5\mu\text{m}$					
Fibers Counted, $>5\mu\text{m}$					
Fibers Counted, Total					
Structures Counted, $<5\mu\text{m}$ :					
Structures Counted, $>5\mu\text{m}$ :					
Structures Counted, Total:					
Asbestos Type(s) Observed*:	ND				
<b>Asbestos Concentration:</b>					
Fibers per cubic centimeter:	$<0.001$				
Structures per cubic centimeter:	$<0.001$				
Structures per $\text{mm}^2$ :	$<3.3$				
Comments**:					

\* Asbestos types: CH=chrysotile, AM=amosite, CR=crocidolite, TR=tremolite, AC=actinolite, AN=anthophyllite,  
ND=none detected.

\*\*Comments: BL=Blank sample; only fibers, structures and asbestos type(s) are reported; NC=Sample not prepared or analyzed;  
OV=Sample prepared but not analyzed due to overloading; PF=Sample prepared but not analyzed.

*MW*  
*12-8-10*



**Method:** ISO 10312

Client Number: L1227  
Report Number: T019230  
Date Received: 10/28/10  
Date Reported: 11/11/10

TDD No: 10-08-0001  
Project #: 002233.0603.01RZ  
Site: 10JN (START-3 Region X Subcontract)  
COC No: 10-102710-131009-0010

Page: 1 of 2

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**Mark Floyd, Analytical Microscopy Supervisor**

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\* Asbestos types: CH=chrysotile; AM=amosite; CR=crocidolite; TR=tremolite; AC=actinolite; AN=anthophyllite; ND=none detected

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Mr 12-8-10



## Detailed Asbestos Analysis Report

## Transmission Electron Microscopy

Method: ISO 10312

Client:  
Ecology & Environment Inc  
Daniel Wright  
720 3rd Ave, Suite 1700  
Seattle WA 98104

Page: 2 of 2  
Client Number: L1227  
Report Number: T019230  
Date Received: 10/28/2010  
Date Reported: 11/11/2010

Date Collected: 10/27/10  
Site: 10JN (START-3 Region X Subcontract)  
Location: 10-102710-131009-0010  
P.O. Number: 10-08-0001  
Project No: 002233.0603.01RZ

Filter size/Medium: 25mm MCEF  
Filter Pore size,  $\mu\text{m}$ : 0.45

Detailed Analytical Results					
Lab Sample Number:	20079170				
<b>Analytical Parameters</b>					
Air Volume Sampled, liters:					
Filter Area, $\text{mm}^2$ :	385				
Grid Opening Area, $\text{mm}^2$ :	0.013				
Grid Openings Analyzed:	10				
Area Analyzed, $\text{mm}^2$ :	0.13				
Analytical Sensitivity, str/cc:	#DIV/0!				
<b>Structure Type &amp; Size Dist'n</b>					
Fibers Counted, $<5\mu\text{m}$					
Fibers Counted, $>5\mu\text{m}$					
Fibers Counted, Total					
Structures Counted, $<5\mu\text{m}$ :					
Structures Counted, $>5\mu\text{m}$ :					
Structures Counted, Total:					
Asbestos Type(s) Observed*:	ND				
<b>Asbestos Concentration:</b>					
Fibers per cubic centimeter:	#DIV/0!				
Structures per cubic centimeter:	#DIV/0!				
Structures per $\text{mm}^2$ :	$<7.7$ U				
Comments**:					

\* Asbestos types: CH=chrysotile, AM=amosite, CR=crocidolite, TR=tremolite, AC=actinolite, AN=anthophyllite,  
ND=none detected.

\*\*Comments: BL=Blank sample; only fibers, structures and asbestos type(s) are reported; NC=Sample not prepared or analyzed;  
OV=Sample prepared but not analyzed due to overloading; PF=Sample prepared but not analyzed.

MW  
12/10



# Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Ecology & Environment, Inc.  
Steve Hall  
720 3rd Ave., Suite 1700  
  
Seattle, WA 98104

Client ID: L1227  
Report Number: N003051  
Date Received: 10/16/10  
Date Analyzed: 10/18/10  
Date Printed: 12/03/10

Job ID/Site: No. 10-101510-095115-0001/10JN

FALI Job ID: L1227-3  
Total Samples Submitted:  
Total Samples Analyzed:

## Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description
10100301	11041354	Brown Soil

### Visual Estimation Results:

Matrix percentage of entire sample: 100  
Visual estimation percentage: None Detected  
Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 0.25%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

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# Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Ecology & Environment, Inc.  
Katy Miller  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: N003058  
Date Received: 10/19/10  
Date Analyzed: 10/20/10  
Date Printed: 10/20/10

Job ID/Site: No:10-101810-094928-0002 - Site # 10JN

FALI Job ID: L1227-3  
Total Samples Submitted: 1  
Total Samples Analyzed: 1

## Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description
10100303	11041937	Brown Soil

### Visual Estimation Results:

Matrix percentage of entire	100
Visual estimation percentage:	None Detected
Asbestos type(s) detected:	None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 0.25%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

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# Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: N003062  
Date Received: 10/20/10  
Date Analyzed: 10/21/10  
Date Printed: 10/21/10

Job ID/Site: No. 10-101910-073325-0003 - 10JN

FALI Job ID: L1227-3  
Total Samples Submitted: 2  
Total Samples Analyzed: 2

## Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description
-----------	------------	-------------------

10100305	11042669	Brown Soil
----------	----------	------------

### Visual Estimation Results:

Matrix percentage of entire sample: 100  
Visual estimation percentage: None Detected  
Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

10100307	11042670	Brown Soil
----------	----------	------------

### Visual Estimation Results:

Matrix percentage of entire sample: 100  
Visual estimation percentage: None Detected  
Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 0.25%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

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# Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
  
Seattle, WA 98104

Client ID: L1227  
Report Number: N003064  
Date Received: 10/21/10  
Date Analyzed: 10/22/10  
Date Printed: 12/03/10

Job ID/Site: No. 10-102010-073012-004/10JN

FALI Job ID: L1227-3  
Total Samples Submitted:  
Total Samples Analyzed:

**Sample Preparation and Analysis:**

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description
10100308	11043263	Brown Soil

*Visual Estimation Results:*

Matrix percentage of entire sample: 100  
Visual estimation percentage: None Detected  
Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 0.25%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

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# Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: N003071  
Date Received: 10/22/10  
Date Analyzed: 10/25/10  
Date Printed: 12/03/10

Job ID/Site: No. 10-102110-073027-005/10JN

FALI Job ID: L1227-3  
Total Samples Submitted:  
Total Samples Analyzed:

## Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description
10100311	11043797	Brown Soil

### Visual Estimation Results:

Matrix percentage of entire sample: 100  
Visual estimation percentage: None Detected  
Asbestos type(s) detected: None Detected

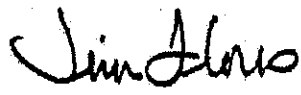
Comment: This result meets the requirements of Exception I as defined by the 435 Method.

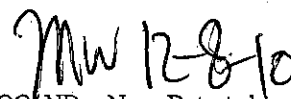
10100313	11043798	Brown Soil
----------	----------	------------

### Visual Estimation Results:

Matrix percentage of entire sample: 100  
Visual estimation percentage: None Detected  
Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

  
James Flores, Laboratory Supervisor, Hayward Laboratory



Note: Limit of Quantification (LOQ) = 0.25%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

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# Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
  
Seattle, WA 98104

Client ID: L1227  
Report Number: N003073  
Date Received: 10/23/10  
Date Analyzed: 10/26/10  
Date Printed: 12/03/10

Job ID/Site: 10-102210-075058-0006/10JN

FALI Job ID: L1227-3  
Total Samples Submitted:  
Total Samples Analyzed:

**Sample Preparation and Analysis:**

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description
10100317	11044177	Brown Soil

*Visual Estimation Results:*

Matrix percentage of entire sample: 100  
Visual estimation percentage: None Detected  
Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 0.25%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

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# Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
  
Seattle, WA 98104

Client ID: L1227  
Report Number: N003074  
Date Received: 10/25/10  
Date Analyzed: 10/26/10  
Date Printed: 10/26/10

Job ID/Site: 10-102210-171231-0007 - 10JN

FALI Job ID: L1227-6  
Total Samples Submitted: 3  
Total Samples Analyzed: 3

**Sample Preparation and Analysis:**

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description
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10100315	11044254	Brown Soil
----------	----------	------------

*Visual Estimation Results:*

Matrix percentage of entire	100
Visual estimation percentage:	None Detected
Asbestos type(s) detected:	None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

10100319	11044255	Brown Soil
----------	----------	------------

*Visual Estimation Results:*

Matrix percentage of entire	100
Visual estimation percentage:	None Detected
Asbestos type(s) detected:	None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

10100321	11044256	Brown Soil
----------	----------	------------

*Visual Estimation Results:*

Matrix percentage of entire	100
Visual estimation percentage:	None Detected
Asbestos type(s) detected:	None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.



# Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700

Seattle, WA 98104

Client ID: L1227  
Report Number: N003074  
Date Received: 10/25/10  
Date Analyzed: 10/26/10  
Date Printed: 10/26/10


Job ID/Site: 10-102210-171231-0007 - 10JN

FALI Job ID: L1227-6  
Total Samples Submitted: 3  
Total Samples Analyzed: 3

## Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description
-----------	------------	-------------------

  
James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 0.25%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

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# Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: N003082  
Date Received: 10/27/10  
Date Analyzed: 10/28/10  
Date Printed: 12/03/10

Job ID/Site: 10-102610-071726-0008/10JN

FALI Job ID: L1227-3  
Total Samples Submitted:  
Total Samples Analyzed:

## Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description
10100324	11045379	Brown Soil

### Visual Estimation Results:

Matrix percentage of entire sample: 100  
Visual estimation percentage: None Detected  
Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 0.25%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

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# Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
Seattle, WA 98104

Client ID: L1227  
Report Number: N003086  
Date Received: 10/28/10  
Date Analyzed: 10/29/10  
Date Printed: 12/03/10

Job ID/Site: 10-102710-085015-0009/10JN

FALI Job ID: L1227-3  
Total Samples Submitted:  
Total Samples Analyzed:

**Sample Preparation and Analysis:**

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description
10100327	11045972	Brown Soil

*Visual Estimation Results:*

Matrix percentage of entire sample: 100  
Visual estimation percentage: None Detected  
Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 0.25%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

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# Bulk Asbestos Material Analysis

(Air Resources Board Method 435, June 6, 1991)

Ecology & Environment, Inc.  
Project Manager  
720 3rd Ave., Suite 1700  
  
Seattle, WA 98104

Client ID: L1227  
Report Number: N003093  
Date Received: 10/30/10  
Date Analyzed: 11/01/10  
Date Printed: 12/03/10

Job ID/Site: 10-102910-120433-0011/10JN

FALI Job ID: L1227-3  
Total Samples Submitted:  
Total Samples Analyzed:

## Sample Preparation and Analysis:

Samples were analyzed by the Air Resources Board's Method 435, Determination of Asbestos Content of Serpentine Aggregate. Samples were ground to 200 particle size in the laboratory. Approximately 1 pint was retained for analysis. Samples were prepared for observation according to the guidelines of Exception I and Exception II as defined by the 435 Method. Samples which contained less than 10% asbestos were prepared for observation according to the point count technique as defined by the 435 Method. This analysis was performed with a standard cross-hair reticle.

Sample ID	Lab Number	Layer Description
10100328	11047159	Brown Soil

### Visual Estimation Results:

Matrix percentage of entire sample: 100  
Visual estimation percentage: None Detected  
Asbestos type(s) detected: None Detected

Comment: This result meets the requirements of Exception I as defined by the 435 Method.

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 0.25%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

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# ANALYSIS REPORT

## ASBESTOS IN DUST (MICROVACS)

### Transmission Electron Microscopy\*

Client: Ecology & Environment  
Contact: Steve Hall  
Street: 720 3rd Ave, Suite 1700  
City/state/zip: Seattle WA 98104

Page: 1  
Total Pages: 2  
Client Number: L1227  
Report Number: T019209  
Date Received: 10/23/10

Site: 10JN  
TDD/Project #: 10-08-0001 / 002233.0603.01RZ  
COC#: 10-102210-075058-0006  
Date collected: 10/21/10

Analyst(s): MF  
Date Analyzed: 10/27/10  
Date Reported: 10/27/10

### ANALYTICAL PARAMETERS AND RESULTS

Client Sample Number	10JN-0001	10JN-0002	10JN-0003	10JN-0004	10JN-0005
Location:	BK01MV	BK02MV	BK03MV	BK04MV	BK05MV
Lab Sample Number	20079082	20079083	20079084	20079085	20079086
Area sampled, cm <sup>2</sup>	100	100	100	100	100
Total rinse volume, ml	100	100	100	100	100
Rinse volume filtered, ml	6.0	6.0	6.0	6.0	6.0
Filter area, mm <sup>2</sup>	190	190	190	190	190
Grid opening area, mm <sup>2</sup>	0.0086	0.0086	0.0086	0.0086	0.0086
No. GOs analyzed	4	4	4	4	4
No. asbestos structures	0	0	0	0	0
Analytical sensitivity (AS), str/cm <sup>2</sup>	920	920	920	920	920
Limit of detection (LOD), str/cm <sup>2</sup>	2,800 U	2,800 U	2,800 U	2,800 U	2,800 U
Asbestos concentration, structures/cm <sup>2</sup>	<LOD	<LOD	<LOD	<LOD	<LOD
Asbestos Type(s) Detected**	ND	ND	ND	ND	ND

AS or LOD are the results calculated when the number of asbestos structures counted is 1 or 3, respectively.

Mark Floyd, Analytical Microscopy Supervisor

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\* ASTM Method D5755-03.

\*\* Asbestos types: CH=chrysotile; AM=amosite; CR=crocidolite; AC=actinolite; TR=tremolite; AN=anthophyllite; ND=none detected.

n/a: not analyzed



**ANALYSIS REPORT**  
**ASBESTOS IN DUST (MICROVACS)**  
**Transmission Electron Microscopy\***

Client: Ecology & Environment  
Contact: Steve Hall  
Street: 720 3rd Ave, Suite 1700  
City/state/zip: Seattle WA 98104

Page: 2  
Total Pages: 2  
Client Number: L1227  
Report Number: T019209  
Date Received: 10/23/10

Site: 10JN  
TDD/Project #: 10-08-0001 / 002233.0603.01RZ  
COC#: 10-102210-075058-0006  
Date collected: 10/21/10

Analyst(s): MF  
Date Analyzed: 10/27/10  
Date Reported: 10/27/10

ANALYTICAL PARAMETERS AND RESULTS					
Client Sample Number	10JN-0006				
Location:	BK06MV				
Lab Sample Number	20079087				
Area sampled, cm <sup>2</sup>	100				
Total rinse volume, ml	100				
Rinse volume filtered, ml	6.0				
Filter area, mm <sup>2</sup>	190				
Grid opening area, mm <sup>2</sup>	0.0086				
No. GOs analyzed	4				
No. asbestos structures	0				
Analytical sensitivity (AS), str/cm <sup>2</sup>	920				
Limit of detection (LOD), str/cm <sup>2</sup>	2,800 U				
Asbestos concentration, structures/cm <sup>2</sup>	<LOD				
Asbestos Type(s) Detected**	ND				

AS or LOD are the results calculated when the number of asbestos structures counted is 1 or 3, respectively.

\* ASTM Method D5755-03.

\*\* Asbestos types: CH=chrysotile; AM=amosite; CR=crocidolite; AC=actinolite; TR=tremolite; AN=anthophyllite; ND=none detected.

n/a: not analyzed

3777 Depot Road, Suite 409, Hayward, California 94545 Telephone: 510-887-8828 Fax: 510-887-4218 www.forensica.com



## ANALYSIS REPORT ASBESTOS IN DUST (MICROVACS) Transmission Electron Microscopy\*

Client: Ecology & Environment  
Contact: Steve Hall  
Street: 720 3rd Ave, Suite 1700  
City/state/zip: Seattle WA 98104

Page: 1  
Total Pages: 1  
Client Number: L1227  
Report Number: T019211  
Date Received: 10/25/10

Site: 10JN  
TDD/Project #: 10-08-0001 / 002233.0603.01RZ  
COC#: 10-102210-071231-0007  
Date collected: 10/22/10

Analyst(s): MF  
Date Analyzed: 10/27/10  
Date Reported: 10/27/10

ANALYTICAL PARAMETERS AND RESULTS					
Client Sample Number	10JN-0007	10JN-0008	10JN-0009		
Location:	AD-01MV	AD-02MV	AD-03MV		
Lab Sample Number	20079089	20079090	20079091		
Area sampled, cm <sup>2</sup>	100	100	100		
Total rinse volume, ml	100	100	100		
Rinse volume filtered, ml	0.1	1.0	6.0		
Filter area, mm <sup>2</sup>	190	190	190		
Grid opening area, mm <sup>2</sup>	0.0086	0.0086	0.0086		
No. GCs analyzed	10	10	4		
No. asbestos structures	0	0	1		
Analytical sensitivity (AS), str/cm <sup>2</sup>	22,100	2,200	920		
Limit of detection (LOD), str/cm <sup>2</sup>	66,300 U	6,600 U	2,800 U		
Asbestos concentration, structures/cm <sup>2</sup>	<LOD	<LOD	<LOD		
Asbestos Type(s) Detected**	ND	ND	CH		

AS or LOD are the results calculated when the number of asbestos structures counted is 1 or 3, respectively.

Mark Floyd, Analytical Microscopy Supervisor

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\* ASTM Method D5755-03.

\*\* Asbestos types: CH=chrysotile; AM=amosite; CR=crocidolite; AC=actinolite; TR=tremolite; AN=anthophyllite; ND=none detected, n/a: not analyzed

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# **F Local News Articles**

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## EPA finds asbestos in fill material around Orofino

The Environmental Protection Agency (EPA) has found asbestos in seven sites around Orofino where material was taken during the replacement of pipes for the Riverside Water and Sewer District, according to Suzanne Skadowski, Community Involvement Coordinator for Region 10.

The Riverside Water & Sewer District replaced certain water mains last year. Some of the replaced pipe was asbestos cement pipe (ACP) which is a mixture of Portland cement and asbestos fibers, and as long as the cement remains intact and in good condition, the mineral does not present a serious threat. ACP was often used because it is corrosion resistant and does not rust or rot.

Responding to a citizen complaint, EPA is evaluating concerns about whether the ACP was properly handled and disposed during the course of the district's pipe replacement project. In late June, EPA collected several samples of suspected ACP from a property in Orofino where excavated soil containing suspected ACP had been placed as fill material.

Lab analysis later revealed that samples collected from this event showed elevated concentrations of Chrysotile asbestos. EPA returned in early August and collected additional suspected ACP and soil samples from other properties in Orofino. Those samples also showed elevated concentrations of Chrysotile asbestos.

As more information becomes available, EPA will ensure that potentially affected property owners and the local community are informed, Skadowski said.

Below are some questions she answered by email:

### Is there a concern about asbestos in the material?

Yes, EPA is concerned because asbestos is a hazardous substance. However, asbestos is not always an immediate hazard. In fact, if asbestos can be maintained in good condition, it is recommended that it be left alone. It is only when asbestos containing materials are disturbed or the materials become damaged that it becomes a hazard. When the materials become damaged, the asbestos fibers separate and may become airborne and breathed into the lungs.

### What are the plans for clean up?

Right now, we are focused on quickly gathering data to determine where excavated soil containing ACP has been placed as fill material, and are laying the groundwork to work quickly with affected landowners to cleanup asbestos containing materials wherever they are found.

### How many and what locations are involved?

*Window on the Clearwater*  
P.O. Box 2444  
Orofino, ID 83544

Telephone:  
Orofino 476-0733  
Lewiston 208-503-7107  
Toll Free 1-866-376-9810  
Fax: Toll Free  
1-866-376-9810

[Email](#)

So far, we have identified seven sites in Orofino that may have received the ACP fill material.

#### **How hazardous is the asbestos involved?**

Asbestos is a hazardous substance which poses a health hazard if asbestos fibers are inhaled. Since pieces of ACP have been observed on the surface during our site visits, we know that the material is there and subject to weathering. When this material weathers, it releases fibers to the air so it is considered a health risk. What is not clear presently is how long it will be before such release occurs. The ACP has been at these seven sites for only about a year, so there has been limited weathering and very little fiber released. At these seven disposal sites, as long as the ACP remains intact, undisturbed and in good condition, the asbestos likely does not present a serious threat.

#### **What prompted the investigation into the situation?**

We responded to a citizen complaint.

#### **What are the symptoms of exposure to the asbestos?**

Diseases that can be caused by long-term exposure to high levels of asbestos include lung cancer, mesothelioma and asbestosis. Symptoms would be those associated with these diseases, which may not occur until 20 or more years after exposure.

#### **Who will pay the costs for clean up and will there be fines, etc.?**

Since EPA's information gathering and assessment is still underway, those details have not yet been determined. It is, however, EPA's policy to make polluters pay for cleanup costs.

#### **What next?**

If a property owner believes that they may have received excavated soil/fill material containing suspected ACP, they should leave the suspected material alone and notify EPA immediately by calling 208-664-4858.

# Window on the Clearwater<sup>®</sup>

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## RWSD working with EPA regarding asbestos found in fill dirt

by Nancy Jennings, District Administrator

The Riverside Water & Sewer District was notified by the Environmental Protection Agency (EPA) in early July that the agency had received a call from a concerned citizen regarding the disposal of asbestos-cement pipe, known as ACP, on a large private lot west of the District office.

EPA collected samples from this lot in June and after lab analysis, found elevated concentrations of Chrysotile asbestos. After further investigation, EPA and the District found seven sites that received fill material from the project. EPA along with District staff visited all seven sites early in August. EPA obtained samples for lab analysis from those sites and the lab analysis has revealed that the samples collected on the fill sites revealed elevated concentrations of Chrysotile asbestos.

For the third phase of its waterline improvements project, the District contracted with a company to replace certain water mains within the District boundaries. The contract provided that during this project, existing ACP would be encountered and must be buried in the trench where new line would be placed consistent with federal requirements. The contract further provided that the company was responsible to meet all AHERA (Asbestos Hazard Emergency Response Act) requirements for working with ACP.

The District will continue to work with EPA as investigation and cleanup efforts continue. Any questions regarding this matter may be directed to Suzanne Skadowski, the Community Involvement Coordinator for EPA Region 10 at 206-553-6689.



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[Businesses](#)
[Art Matters](#)
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[Classified Ads](#)
[Weather](#)
[Submissions](#)
[Archives](#)
[Directory](#)
[Clearwater Creations](#)
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## Clean up beginning on asbestos from water system fill

The Environmental Protection Agency and contractors mobilized in Orofino Wednesday to begin the clean up of properties that they have determined have fill material containing remnants of asbestos pipe replaced during the water system improvements of the Riverside Water Sewer District.



Crews are working on this site along U.S. Highway 12 to remove fill that is contaminated with asbestos fibers.



Earl Liverman, EPA Federal On-Site Coordinator, said they are currently working on two sites, one next to Canoe Camp RV Park on U.S. Highway 12 and a residence. The site on Highway 12 is being used as a staging area where the fill from other sites such as the residence which have less fill is being brought and prepared to be loaded on large tractor trailers to be hauled to the Graham Rd. facility near Medical Lake, WA.

Liverman said he anticipates they will be working on the nine identified sites in and around Orofino for four to six weeks, unless additional sites are identified. Anyone who had the fill placed on their property and has not been contacted should call Riverside Water and Sewer District at 476-3613 so their property can be evaluated. He said the sites may have as little as two to three loads of the fill up to thousands of loads. The estimate a total of 21,000 to 23,000 cubic yards is involved.

To begin the work, EPA is meeting with elected officials and landowners to discuss the options to make the properties safe and then going

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[REDACTED] forward with the process the landowner requests. In the case of the two properties where they are currently working, the property owners asked that the fill be removed. He said that in some cases, the property owner can also opt to have the fill covered with asphalt, cement, gravel or two feet of dirt that will provide a barrier to the asbestos becoming airborne. That barrier needs to be maintained. Asbestos poses a health hazard if the fibers are inhaled.

In the case of the lot on Highway 12 next to King's of Orofino, a barrier of four inches of clean dirt has been put on top. That provides a temporary barrier and the site will be taken care of next year. Liverman estimated that there were between 10,000 and 12,000 loads at the site.

Ecology and Environment, based in Seattle, is providing the technical and scientific support and McGillivray Environmental from Kellogg is doing the work. Liverman anticipates the cost of the clean up will be about \$1.2 million, unless other sites are found. EPA is paying those costs up front, the responsible parties will be charged with the costs.

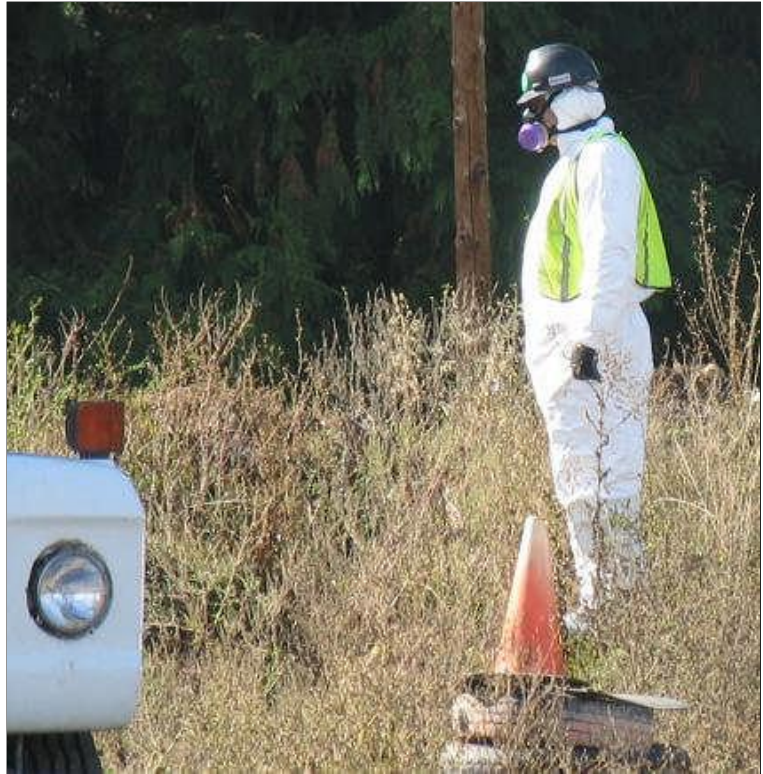
Just last week, they began finding exposed cement asbestos pipe in an area where Phase II of the project was done. They had thought there were only concerns with fill from Phase III. That may mean there are additional contractors and engineers involved.

At each of the sites as they are being cleaned up, the area will be fenced and air monitors installed to be sure the asbestos is being properly contained.

They also install black silk fencing as needed. If the air monitors were to show that the asbestos was drifting, they would change the procedure. At this point they are dry decontaminating, they could also do wet decontamination.

In their meetings with landowners, they also ask about subsurface features such as utilities, springs, areas special to the landowner or anything else they need to know ahead of time. After they have excavated to the level of natural surface, they over excavate about six inches and then test in three to five places. All of those but one are mixed. The mixture is compared against the single sample in a lab to make sure all the asbestos has been removed. If fibers are found more fill is excavated. When the area is cleared, it receives six inches of back fill and can be hydro or hand seeded or graveled.

Crews work in Level C suits including Tyvec coveralls, hard hats and half face respirators with asbestos cartridges. This protects them while they are in close proximity to the fibers. Whenever the crews are working on removing the fill, water is put on the dirt to suppress the dust. There are also individual air monitors for the workers.





**Photos: Second--Signs are posted to warn people about the hazard. Third--Works wear special protective gear. Fourth--Water is sprayed on the area to suppress dust that may carry the fibers as they are excavated.**

Liverman said they have been welcomed into the community by landowners and elected officials. They are committed to making sure the sites are taken care of and the public health protected.

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## Work continues to clean up asbestos contaminated fill

Work continues at several sites around Orofino to clean-up and restore property where asbestos pipe fill was placed during construction of new water lines for Riverside Water and Sewer District.

According to Dan Heister, Environmental Protection Agency, the number of sites has grown to 26 at this point. Of those, 14 have been excavated and tested to make sure that contaminated materials have been removed. The other 12 properties will be taken care of next year. Some of them have had gravel barriers put on top to keep the asbestos pipe from further deteriorating and the fibers from getting into the air.

The tests that have come back on some of the excavated properties have not detected any more asbestos. Tests from the other properties are still being completed. When the properties are found clear then six inches of clean dirt will be put on top of the base.



**This trailer contains bagged asbestos cement pipe from the clean up. The pipe is weighed and laid out to determine linear feet of the pipe that has been found to better document the work.**

Several decades ago when the pipes were installed for the water district, it was common to put asbestos in the cement. Later as the problems with asbestos fibers became known, procedures were developed for safe handling when new pipes were laid. According to RWSD, contractors on the project were instructed to follow those procedures and bury the pipe below the new pipe.

However, earlier this year, following report by a concerned citizen EPA investigated and found that the pipe was included in fill material dumped at several locations in and around Orofino.



**Air monitors on the excavation sites record whether asbestos fibers are being found in the air. The monitor pulls air through it with the pump seen in the bottom of the photo.**

The asbestos cement pipe that was found in the ditches earlier this month has all be picked up. According to Earl Liverman, EPA they found a surprising amount of material from both Phase II and III of the water project.

The danger from the asbestos fibers is when they become airborne and are breathed. That can cause long term health problems.

In addition to the areas where the asbestos contaminated material is being excavated, dust in areas that might have contaminates was tested, particularly inside an open shed, to see if the fibers may have drifted. Those came back clear, Heister said.

Heister said they anticipate that crews will be in Orofino for about another week before they demobilize until next year.

Anyone who received fill material during the water system improvements and has not already contacted Riverside Water Sewer District is asked to call the office at 476-3613.

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A truck driver and excavation site worker double cover the semi trailer before it heads out to deliver the load to a landfill between Medical Lake and Spokane, WA.

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## Asbestos clean up crews demobilize

Crews from McGillivray Environmental and representatives of the Environmental Protection Agency and Ecology and Environment demobilized Tuesday and left Orofino Wednesday following several weeks work cleaning up properties where asbestos fill material was placed.



**Crews from McGillivray Environmental demobilized Tuesday after cleaning up 14 of the sites where asbestos contaminated fill material been placed.**

The asbestos was in decades old pipe dug up during Phase II and III of Riverside Water Sewer District's water system improvements the last few years. According to RWSD, companies working on the improvements were under contract to bury the asbestos and cement pipe below the new pipes which is the approved procedure. As long as the pipe is stable and not exposed to the air, it does not present a health risk. Airborne asbestos fibers are a health concern if they are breathed and as the pipe deteriorated in exposed area it would put residents at risk.

Earlier this year, the EPA was alerted by a local citizen that the asbestos pipe was not buried, but had been hauled and dumped at several locations around Orofino as fill. There were originally less than 10 sites identified, but as the crews worked in the area, more people reported having had the material placed on their properties. The total grew to 26 sites over the few weeks crews were here.

Fourteen of the sites have had the fill material excavated back to the original level. After testing to make sure the asbestos was gone, the sites were covered with six inches of clean dirt or gravel.

The excavated material and pipe were hauled to a landfill site in Washington between Spokane and Medical Lake. Crews working on the sites wore protective clothing including breathing apparatus. Some exposed pipe was also found in ditches where the work done. It has also been cleaned up.

All the remaining known sites have been stabilized with a barrier layer so they do not present a

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health hazard over the winter, according to Daniel Wright of Ecology and Environment. The majority of those sites are larger than those excavated this fall including parking areas at two churches, the lot at the corner of U.S. Highway 12 and 128th St. and an area at the Transfer Station. Those sites will be taken care of next year.

Dust in two locations was also tested due to concerns that the asbestos fibers might have gotten distributed around the particular area. Those came back negative for asbestos fibers.

Wright said over 500 linear feet of pipe were recovered this year.

Clean up costs were earlier estimated at \$1.2 million and Earl Liverman, EPA, said that agency is paying those costs up front, the responsible parties will be charged with the costs.

Kip McGillivray said he and his crews appreciate the way they have been welcomed with open arms. They have tried to put back into the community by buying locally and eating at local restaurants.

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