

# **IDAHO WASTE SYSTEMS, INC. PRE-AUDIT PACKAGE**

## **SIMCO ROAD REGIONAL LANDFILL**

**Mountain Home, Idaho**



**IDAHO WASTE SYSTEMS INC.**

*Greetings!*

*Thank you for your interest in Idaho Waste Systems, Incorporated (IWS). Our mission is to provide the very best solid waste disposal services for our clients in a cost effective manner. Toward that end, IWS owns and operates a large, Sub Title D landfill in south central Idaho. The site boasts exceptionally favorable hydrologic conditions, easy access and a remote location. The facility is fully lined, permitted and has a commercial siting license ensuring safe and efficient solid waste disposal operations. In fact, our facility and operations meet or exceed all federal, state and local regulatory requirements and our record of environmental compliance is exemplary.*

*We are very proud of the business relationships we have built with numerous public and private entities for solid waste disposal. With a permitted capacity of 210,000,000 tons, IWS is able to accommodate substantial solid waste streams for both the long and short term needs of our clients in an environmentally responsible and cost effective way. As you are certainly aware, this significantly reduces your liability exposure and costs both now and in the future.*

*We appreciate the time and interest you have taken in Idaho Waste Systems, Incorporated and would like to extend a personal invitation to visit our Simco Road Regional Landfill and/or other facilities. We firmly believe you will conclude our facility affords an excellent solution to your solid waste disposal challenge.*

*Please contact me if you are interested in scheduling a facility tour or would like more information concerning how we may be of service to you.*



**IDAHO WASTE SYSTEMS INC.**

**Fred Perez**  
**General Manager**  
**(208) 796-2727**  
**Fax: (208)796-2729**  
**Email: [fperez@idahowaste.com](mailto:fperez@idahowaste.com)**

# Table of Contents

	<u>Page</u>
<b>Section 1. General Information</b>	<b>4</b>
1.1 Facility Information	5
1.2 Regulatory Contact Information	6-7
<b>Section 2. Company Organization</b>	<b>8</b>
2.1 Corporate Status	8-10
<b>Section 3. Site Description</b>	<b>11</b>
3.1 Landfill Location	12
3.2 Land Use –Zoning	12
3.3 Water Right	12
3.4 Landfill Capacity	13
3.4.1 Site Permitted Capacity	13
3.4.2 Design Permitted Capacity	13-14
3.5 Climate	14
3.6 Topography	14
3.7 Geology	15
3.8 Hydrological	14
<b>Section 4. Landfill Construction</b>	<b>15</b>
4.1 Site Grading and Excavation	16
4.2 Landfill Method	16
4.3 Base Composite Liner System	16
4.4 Final Cover Design	16
4.5 Environmental Monitoring Systems	19
<b>Section 5. Financial Assurance/Insurance</b>	<b>21</b>
5.1 Financial Assurance Mechanisms	22
5.2 Insurance Coverage	22
<b>Section 6. Waste Acceptance Program</b>	<b>23</b>
6.1 Waste Characterization Program	24
6.2 Waste Acceptance Summary	25
6.3 Waste Not Accepted	25

**SECTION 1**

**GENERAL INFORMATION**

# GENERAL INFORMATION

## 1.1 Facility Information.

**Facility Name:** Idaho Waste Systems, Inc. - Simco Road Regional Landfill

**Location:** The Landfill Office is located approximately 25 miles southeast of Boise, Idaho. The Landfill is easily accessible from Interstate 84 southeast of Boise off the Simco Road Exit #74.

**Street Address:** Simco Road Regional Landfill  
4015 Simco Road  
Boise, Idaho 83927  
(208) 796-2727  
(208) 796-2729 (fax)

**Mailing Address:** Idaho Waste Systems, Inc.  
Simco Road Regional Landfill  
P.O. Box 1386  
Mountain Home, Idaho 83647

**Principal Site Contact:** Fred Perez  
208 796-2727  
(208)7962729 Fax  
fperez@idahowaste.com

**Web Site:** [www.idahowaste.com](http://www.idahowaste.com)

**Regional Service Offices:**

**Idaho Region**  
4015 Simco Rd.  
P.O. Box 1368  
Mountain Home, Idaho 83647  
(208) 796-2727  
(208) 796-2729 (fax)

**Central Oregon Region**  
222 SE Salmon  
P.O. Box 670  
Redmond, Oregon 97756  
(541) 923-0900  
(541) 923-1327 (fax)  
Contact: Rhonda Avery

## 1.2 Regulatory Information.

**EPA Identification #:** None

**CERCLA Certification:** CERCLA Off Site Determination in Progress

**Permits/Approvals:**

Site Certification	01/24/95
Operations Plan	07/03/95
Final Design Report	03/05/96
Permit to Construct Permit #: 039-00020	01/28/98
Commercial Siting License	11/2/98
Financial Assurance/ Closure and Post Closure	09/16/99
Construction Quality Assurance Report	11/17/99
Modified Final Design Report	07/26/00

### Regulatory Contacts:

**State:** Joe King, Acting Regional Administrator  
Department of Environmental Quality (“**DEQ**”)  
1445 N. Orchard  
Boise, Idaho 83706  
(208) 373-0550

**Health District:** Tom Turco, Director  
Central District Health Department (“**CDHD**”)  
707 N. Armstrong Pl.  
Boise, Idaho 83704-0825  
(208) 327-7499

(208) 327-8500

Marty Jones, Senior Env. Health Specialist  
Central District Health Department  
520 East 8<sup>th</sup> Street North  
Mountain Home, Idaho 83647  
(208) 587-9225  
(208) 587-3521  
Email: [mjones@phd4.state.id.us](mailto:mjones@phd4.state.id.us)

**Federal:**

US Environmental Protection Quality Agency (“EPA”)  
Region 10  
Richard Albright, Regional Administrator  
Office of Waste and Chemical Management  
1200 6<sup>th</sup> Avenue  
WCM-128  
Seattle, WA 98101  
(206) 553-1602  
(800) 424-4372

**SECTION 2**

**COMPANY ORGANIZATION**

# COMPANY ORGANIZATION

## 2.1 Corporate Status.

**Type of Ownership:** **Corporation** - IWS is a privately held corporation organized under the laws of the State of Idaho.  
File #: C106685 – “C” Corporation  
Incorporated: June 15, 1994

**Shareholders:** **Tri-State Environmental Resources, LLC**  
2622 SW Glacier Place, Suite 150  
Redmond, OR 97756  
(503) 923-0900  
Registry #: 435370-83

**Keeton Riemenschneider, LLC**  
P.O. Box 670  
Redmond, OR 97756  
(503) 923-0900  
Registry #: 544912-88

**Waste-Not, LLC**  
3315 NW Canal Boulevard  
Redmond, OR 97756  
(541) 548-8517

**Board of Directors:** **Arland Keeton, Chairman**  
18159 W. Hwy 126  
Sisters, OR 97759

**Robert L. Riemenschneider**  
895 SW 23<sup>rd</sup> St.  
Redmond, OR 97756

**Officers:** **Robert L. Riemenschneider, President**  
895 SW 23<sup>rd</sup> St.  
Redmond, OR 97756

**Ronald L. Riemenschneider, Secretary/  
Treasurer**  
P.O. Box 677  
4101 West Capitol Ave.  
West Sacramento, CA 95691

**Management:** Fred Perez, General Manager  
Tom Knight, Site Manager

**Employees:** Total Number of Employees = 19  
Professionals= 3  
Administration = 3  
Technical = 1  
Labor= 12

**SECTION 3**  
**SITE DESCRIPTION**

# SITE DESCRIPTION.

## 3.1 Landfill Location.

**Legal Description:** This location is approximately 25 miles southeast of Boise, Idaho. The location of the landfill site access is 5 miles south off the Interstate 84, Simco Road Exit 74. The legal description for the landfill site includes the following sections of land:

**Tract I:**

Township 2 South, Range 5 East, Boise, Meridian, Elmore County, Idaho.

Section 18: NW ¼

Section 7: SE ¼

**Tract II:**

Township 2 South, Range 5 East, Boise, Meridian, Elmore County, Idaho.

Section 18: NE ¼

**Tract III:**

Township 2 South, Range 4 East, Boise, Meridian, Elmore County, Idaho.

Section 12: NE ¼

Township 2 South, Range 4 East, Boise, Meridian, Elmore County, Idaho.

Section 12: SE ¼

Section 7: NW ¼, SW ¼

**3.2 Land Use – Zoning:** Elmore County, Idaho, Prime Agricultural/Grazing (Ag/A). The Landfill is in ideal environmental setting far away from any populated urban areas, collateral traffic area, or any land use conflicts in the surrounding area.

**Conditional Use Permit:** October 2, 1997  
**Modification:** December 28, 1998

**3.3 Water Right:** Idaho Department of Water Quality

**Water Right No:** 61-07306D  
**Diversion Rate:** 1 Cubic Foot Per Second (“CFS”)  
- **Irrigation:** 0.29 CFS  
- **Commercial:** 0.67 CFS  
- **Domestic:** 0.04 CFS

### 3.4 Landfill Capacity:

#### 3.4.1 Site Permitted Capacity: (Landfill Footprint)

Property Area:	1080 acres
Landfill Area:	810 acres
Total Air Space:	396,366,000 cu/yd
Highest Landfill Elevation:	3,715 ft.
Total Final Cover:	5,239,200 cu/yd
Net Waste & Daily Intermediate Soil Cover Capacity:	391,126,800 cu/yd
Estimated Refuse To Daily/Intermediate Soil Cover Ratio:	5:1
Total Daily/ Intermediate Soil Cover:	55,126,800 cu/yd
Net Waste Fill Capacity:	336,000,000 cu/yd
Net Waste Fill Capacity: (Compaction Rate = 1250 lbs per cu/yd)	210,000,000 tons

#### 3.4.2 Design Permitted Capacity: (Phase I)

Property Area:	640 acres
Landfill Area:	298 acres
Total Air Space:	76,689,700 cu/yd.
Highest Landfill Elevation:	3,350 ft.
Total Final Cover Soil:	1,927,500 cu/yd.

<b>Net Waste &amp; Daily Intermediate Soil Cover Capacity:</b>	74,762,200 cu/yd.
<b>Estimated Refuse to Daily/Intermediate Soil Cover Ratio:</b>	5:1
<b>Total Daily/Intermediate Soil Cover:</b>	12,460,400 cu/yd
<b>Net Waste Fill Capacity</b>	62,301,800 cu/yd
<b>Net Waste Fill Capacity: (Compaction Rate = 1250 lbs per cu/yd)</b>	38,938,600 tons

**3.5 Climate:** The Landfill is located in the arid region of southwest Idaho (less than six inches of annual precipitation).

**3.6 Topography:** The site gently slopes (about 1% to 3%) running in a northeast to southwest direction. The maximum slope relief across the site is approximately 44 feet . The vegetation consists of sagebrush, cactus, grasses, and shrubs.

**3.7 Geology:** The landfill is atop an alluvial plain that contains a 350 feet thick layer of basalt. This basalt layer is overlain by a clay and silty/clay layer with an average thickness of 67 feet. The initial top-soil layer and sand/gravel layer provide the sub-grade for the landfill and the excavated materials provide daily cover during operation.

**3.8 Hydrological:** The regional aquifer is more than 450 feet below the ground surface.

**SECTION 4**

**LANDFILL CONSTRUCTION**

# LANDFILL CONSTRUCTION.

## 4.1 Site Grading and Excavation.

<b>Site Grading:</b>	Base excavation grade shall be no flatter than 2%.
<b>Excavation:</b>	Permanent excavated horizontal/vertical side slopes shall be no steeper than 3:1.
<b>Set Back:</b>	Landfill Limit is 200 ft from property line.
<b>Sub-grade Compaction:</b>	At least 90% of maximum compaction

## 4.2 Landfill Method.

**Area Fill Method:** The Landfill is operated using an area fill method of waste placement, which means the waste fill areas are all connected. This method of operation allows the landfill to perform as one large waste management unit and allows sequential development of smaller modules versus a large development area. In addition, it allows the excavation of soils needed for daily cover, intermediate and final cover from the next module without the need for mass excavation.

**Construction Sequencing:** The Landfill will be developed in several phases with a total landfill footprint containing 17 cells. The first phase contains 7 cells. Within each cell there are several modules. Modules 1A, 1B, and 1C of Cell 1 have been constructed and constitute an area of approximately 11 acres. The construction of Modules 1A and 1B were completed in November 2000.

## 4.3 Base Composite Liner System.

- Primary Liner:  
(Top to Bottom)**
- 1. Operations Protective Layer** – Thickness 3 feet
  - 2. Geo-Composite Drainage Layer** -10 oz./sq.yd Non-Woven Geo-textile Filter Fabric on top side
  - 3. 80 mil. High Density Polyethylene Liner (HDPE)** - Textured on both sides. The Subtitle D regulations require a composite liner with the upper

component a minimum 60 mil. HDPE liner. The 80 mil HDPE thickness (20 mil thicker than Subtitle D's minimum 60 mil HDPE regulatory requirement) was selected to provide additional environmental protection for the base liner system. The 80 mil HDPE has a higher strength seams, higher puncture resistance, higher tensile stress at yield, and lower permeability in comparison to the Subtitle D 60 mil minimum.

**4. Geo-synthetic Clay Liner (“GCL”).** Federal Subtitle D regulations require a composite liner with a lower component consisting of 2 feet of compacted soil with a hydraulic conductivity of no more than  $1 \times 10^{-7}$  cm/sec. The GCL layer provides is an equivalent to a 2.8-foot layer of clay soil having a hydraulic conductivity less than  $1 \times 10^{-9}$  cm/sec., which exceeds Subtitle D regulations lower component requirements.

**5. 90% Compacted Sub-grade.** 8” (min) moisture conditioned, re-compacted sub grade (compacted to 90% RC).

#### **4.4 Leachate Collection And Removal System. (“LCRS”)**

**LCRS:**

Each landfill cell is equipped with a leachate collection and removal system. Leachate that is produced in the waste fill will seep downward through the waste into a several geo-composite drainage layers. The LCRS includes a series of perforated pipes that supplement the follow capacity for the leachate flowing to the leachate sumps. Currently, the collected leachate flows by gravity into an above ground double containment 5,400 gallon leachate storage tank. Initially, the collected leachate will be evaporated from the leachate storage tanks. After the completion of Cell 1, the leachate will be transferred from the permanent sumps directly into a leachate pond by pumping through a buried double containment piping system. Each sump is equipped with a pump that will be sufficient to handle twice the anticipated leachate production. In addition, each pump is equipped with a pressure sensing motor that automatically activates the pump when sufficient liquid is present in the sump.

**Primary Liner and  
Leachate Collection  
System Liner:  
(Top to Bottom)**

**1. Operations Protective Layer** – Thickness 3 feet

**2. Geo-Composite Drainage Layer** -10 oz./sq.yd  
Non-Woven Geo-textile Filter Fabric on top side

**3. Rock Drainage Layer** -  $\frac{3}{4}$ ' to 1  $\frac{1}{2}$ ' Clean  
Rounded Drain Rock (3.5 to 5 feet thick).

**4. Leachate Collection Pipe** - 18" diameter  
Perforated SDR 7 HDPE.

**5. Second Geo-Composite Drainage Layer** -10  
oz./sq.yd Non-Woven Geo-textile Filter Fabric on  
top side.

**Leak Detection:  
(Top to Bottom)**

**6. Double Layer 80 mil. High Density  
Polyethylene Liner (HDPE)** - Textured on both  
sides.

**7. Geo-synthetic Clay Liner ("GCL").**

**8. Re-compacted Native Sand Backfill.** A  
maximum 3.5 feet thickness of native sand  
compacted to 90% RC.

**9. Third Geo-Composite Drainage Layer** -10  
oz./sq.yd Non-Woven Geo-textile Filter Fabric on  
top side.

**10. Rock Drainage Layer** -  $\frac{3}{4}$ ' to 1  $\frac{1}{2}$ ' Clean  
Rounded Drain Rock (1.5 feet thick).

**11. Early Leak Detection System** – 8" diameter  
perforated SDR 7 HDPE Leak Detection/Lysimeter  
Riser.

**12. Fourth Geo-Composite Drainage Layer** -10  
oz./sq.yd Non-Woven Geo-textile Filter Fabric on  
top side.

**13. 80 mil. High Density Polyethylene Liner  
(HDPE)** - Textured on both sides.

**14. Geo-synthetic Clay Liner.**

**15. 90% Compacted Sub-grade.** 8" (min) moisture conditioned, re-compacted sub grade (compacted to 90% RC).

#### **4.5 Final Cover Design.**

The entire site can be returned to agricultural use once it has been closed.

##### **5 foot Thick final Cover: (Top to Bottom)**

**1. Top Soil Layer** – Thickness 3 feet (Top 6 inch amended with organics to enhance vegetation growth).

**2. Geo-textile Protection Layer** -10 oz./sq.yd Non-Woven Geo-textile Filter Fabric on top side.

**3. 60 mil. High Density Polyethylene Liner (HDPE)** - Textured on both sides.

**4. Geo-synthetic Clay Liner ("GCL").**

**5. Foundation Layer – Thickness 2 feet.** 1 foot of intermediate cover soil, and one foot of compacted native soils.

#### **4.6 Environmental Monitoring Systems.**

An array of environmental monitoring systems have been installed to confirm the environmental security and integrity of the Landfill.

##### **Leachate Monitoring:**

Fluid levels in the LCRS are monitored as part of a Self-Monitoring Program. The liquid level in the LCRS is observed on a daily basis. Leach samples are obtained quarterly for an analysis at a certified laboratory. Analysis are summarized and reported in Leachate Monitoring Reports.

##### **Early Leak Detection:**

A early leak detection system (soil moisture lysimeter unit) is installed underneath the leachate sumps to detect any liner leakage. The leachate sumps is the area in the liner system where liquids have the highest potential for buildup. An 8 inch diameter SDR7 HDPE pipe will be installed along side the 1 inch diameter pipe for future liquid pumping in the unlikely event of liner leakage

occurring and being detected in the leak detection monitoring device.

**Ground Water:  
Monitoring:**

A complete ground water monitoring well system was install in 1995. The ground water monitoring plan provides for a total of 13 monitoring wells for Phase I. Currently, the Ground Monitoring Project for the Landfill operation is being monitored by use of groundwater monitoring wells #1, #4, #5,#6,#7, and #13. Ground Water Sampling Reports ("GWS Report") were conducted quarterly for the first year. Thereafter, GWS Reports will be conducted on a semi-annual basis. The GWS Reports are submitted to the CDHD and DEQ.

**Gas Monitoring:**

Gas Monitoring is conducted at the landfill site on a scheduled basis as required by the applicable permit.

**Radiation Monitoring:**

Radiation scanners shall be installed at the landfill office scale house. All incoming materials will be screened to prevent inadvertent acceptance of radioactive materials.

**SECTION 5**

**FINANCIAL ASSURANCE/  
INSURANCE**

# FINANCIAL ASSURANCE/ INSURANCE.

## 5.1 Financial Assurance

**Financial Assurance Mechanisms For Closure/ Post Closure Care** IWS' financial assurance program exceeds the regulatory requirements under applicable law. To cover the costs associated with closure and post closure care two financial assurance mechanism have been utilized.

1. Surety Payment Performance Bond – \$2,000,000 – Safeco Insurance Company of America, dated September 7, 1999. Bond No. 6017045
2. Standby Trust Fund Agreement - which shall be paid into a Standby Trust Fund Agreement, with Wells Fargo Bank, N.A., dated September 10, 1999. IWS may fund the Trust Fund in the amount of \$2,000,000, at a rate of \$.50 contribution per ton of waste disposed.

## 5.1 Insurance Coverage

**Pollution Legal Liability:** American International Specialty Lines Insurance Company, Policy No: PLS 2679817  
Policy Period: September 3, 1999 to September 3, 2004.  
Coverage Limits: \$1,000,000 Per Incident  
\$2,000,000 Aggregate

**Commercial General Liability:** American International Specialty Lines Insurance Company, Policy No: 4178409  
Coverage Limits: \$1,000,000 Per Occurrence  
\$2,000,000 Aggregate  
Effective: September 3, 1999

**Umbrella Liability:** American International Specialty Lines Insurance Company, Policy No: 6062801  
Coverage Limits: \$1,000,000  
Effective: September 3, 1999

**SECTION 8**

**WASTES ACCEPTANCE  
PROGRAM**

# WASTE ACCEPTANCE PROGRAM.

## 7.1 Waste Characterization/Profile.

**Waste Characterization:** Characteristic Testing should be conducted using method 1311 – Toxicity Characteristics Leaching Procedure (TCLP) described in 40 CFR 261.24.

**Toxicity Limits:** The Landfill may accept wastes that contain certain toxic materials at concentrations lower than the limits listed in 40 CFR 261.

## 7.2 Waste Acceptance Summary.

**General Summary:** The landfill is permitted to accept any RCRA non-hazardous residential, commercial and industrial waste streams including municipal solid waste, construction and demolition materials, wood wastes, special wastes, non-hazardous industrial wastes, non-hazardous industrial process wastes, asbestos, de-watered sludge(s), petroleum-contaminated soils and tires. The following is a summary of those solid wastes that are permitted for disposal at the Simco Road Regional Landfill and are not classified as hazardous wastes. 40 CFR 261.4(b)

**Household Wastes:** Residential Wastes

**Resource Recovery Ash:** Ash from a resource recovery facility that receives and burns household wastes and solid wastes from commercial and industrial sources that does not contain hazardous wastes.

**Ash and Slag:** Fly ash, bottom ash, slag, and flue gas emission control waste from combustion of coal or other fossil fuels.

**Petroleum Exploration And Production Wastes** Drilling fluids, produced waters, or other wastes associated with the exploration, development, or production of crude oil, natural gas, or geothermal energy.

**Chromium Wastes:** Failing toxicity test due only to chromium content, if only Cr +3.

Please refer to 40 CFR 261.4(b)(3)(6) for exact exemptions.

<b>Mining Wastes:</b>	Wastes from extraction and processing of ores and minerals (including coal, phosphate, overburden from uranium). Please refer to 40 CFR 261.4(b)(7) for exact exemptions.
<b>Cement Kiln Dust:</b>	Excepted as provided by 40 CFR 266.112
<b>Treated Wood Waste:</b>	Failing toxicity test due only to arsenic content and if the waste is generated by a user of the arsenical-treated wood products. Please refer to 40 CFR 261.4(b)(9).
<b>Petroleum Contaminated Soils:</b>	Failing toxicity test for Hazardous Waste codes D018 through D043 only subject to corrective action regulations of Underground Storage Tanks. Please refer to 40 CFR 280.

### 7.3 Wastes Not Accepted.

<b>General</b>	<p>IWS does not accept regulated hazardous wastes or dangerous wastes as defined by 40 CFR Part 261 or defined as TSCA regulated by 40 CFR Part 761, including but not limited to:</p> <ul style="list-style-type: none"><li>- PCBs greater than 50 ppm</li><li>- Regulated radioactive material</li><li>- Non-stabilized free liquids</li><li>- RCRA Hazardous Wastes</li><li>- Explosives</li><li>- Batteries</li><li>- Appliances</li></ul> <p>(Note: IWS has solidification services for stable liquids)</p>
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