

Gould Superfund Site  
Groundwater Operable Unit  
Portland, Oregon  
Multnomah County

Record of Decision

September 28, 2000



## **PART 1: THE DECLARATION**

### **Site Name and Location**

The Gould Superfund Site is located in the City of Portland, in Multnomah County, Oregon between NW St. Helen's Road and NW Front Avenue in a heavily industrialized area northwest of downtown Portland known as the Doane Lake area. The site includes a 9.2 acre property currently owned by Gould Inc. that was the location of the former secondary lead smelter and battery recycle facility and areas outside the property where battery casings and other residues from operations on the Gould property were disposed. The Environmental Protection Agency (EPA) identification number is ORD095003687.

The site was divided into 2 operable units for investigation purposes; the Soils Operable Unit and the Groundwater Operable Unit. This Record of Decision (ROD) addresses the Groundwater Operable Unit.

The remedial action required by the 1997 ROD Amendment for the Soils Operable Unit has been completed. The Soils Operable Unit cleanup actions were implemented to address lead-contaminated soil, debris, sediment, and other waste material that posed unacceptable risk to human health and the environment and were potential sources of groundwater contamination.

### **Statement of Basis and Purpose**

This decision document presents the Selected Remedy for the Gould Site Groundwater Operable Unit, which was chosen in accordance with Comprehensive Environmental Response Compensation And Liability Act (CERCLA), as amended, and to the extent practicable, the National Contingency Plan (NCP). This decision is based on the Administrative Record file for this site.

The State of Oregon Department of Environmental Quality concurs with the Selected Remedy.

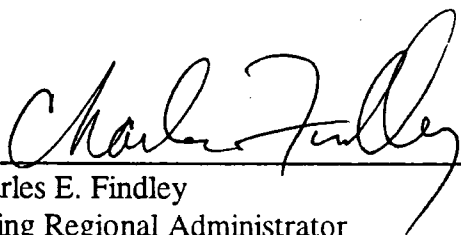
### **Description of Selected Remedy**

The Selected Remedy is no further action for the Gould Site Groundwater Operable Unit. Long-term groundwater monitoring will continue at the site as required by the 1997 ROD Amendment for the Soils Operable Unit to ensure that the remedy remains protective.

### Statutory Determinations

EPA has determined that no remedial action is necessary for the Groundwater Operable Unit. The cleanup actions and exposure controls and monitoring required by the 1997 ROD Amendment have addressed current and potential threats to human health or the environment from contaminants associated with the former lead smelter and battery recycle operations. Groundwater monitoring carried out as part of the cleanup of the Soils Operable Unit has not shown a need for additional cleanup of Gould Site contaminants in groundwater.

Because the remedy for the Soils Operable Unit will result in hazardous substances remaining on-site above levels that allow for unlimited use and unrestricted exposure, a review will be conducted within five years after initiation of remedial action for the Soils Operable Unit to ensure that the remedy continues to provide adequate protection of human health and the environment.

  
\_\_\_\_\_  
Charles E. Findley  
Acting Regional Administrator

9-28-00  
Date

## **PART 2: THE DECISION SUMMARY**

### **1. SITE NAME, LOCATION, AND BRIEF DESCRIPTION**

The Gould Superfund Site is located between NW St. Helen's Road and NW Front Avenue in Portland, Oregon in a heavily industrialized area northwest of downtown Portland known as the Doane Lake area (see Figure 1). The site includes a 9.2 acre property currently owned by Gould Inc. that was the location of the former secondary lead smelter and battery recycle facility and areas outside the property where battery casings and other residues from operations on the Gould property were placed.

A number of other properties in the Doane Lake industrial area are also contaminated from releases associated with various industrial operations. The Oregon Department of Environmental Quality (DEQ) is overseeing investigations and cleanup actions under state authority at several of these sites, including the Rhone-Poulenc site. Rhone-Poulenc is adjacent to the Gould property and is the location of a former pesticide/herbicide manufacturing and formulating facility. The Rhone-Poulenc site is contaminated with herbicide and pesticide wastes and associated chemicals from past operations at the site.

EPA is the lead agency for the Gould Superfund Site and the DEQ is the support agency involved. The cleanup of the Soils Operable Unit was financed and performed by the potentially responsible parties.

### **2. SITE HISTORY AND ENFORCEMENT ACTIVITIES**

#### Site Description and History

Secondary lead smelting operations began at the site in 1949 under the ownership of Morris P. Kirk and Sons, a subsidiary of NL Industries, Inc. (NL). Facility operations included lead-acid battery recycling, lead smelting and refining, and lead oxide production. Gould purchased the property in 1979 and closed the facility in 1981. During facility operations, discarded battery casing materials and other lead smelter wastes were used as fill on the Gould Site and an adjacent property. Acid from batteries was drained to East Doane Lake during several years of operation.

In 1981 and 1982, a joint investigation of contamination at the site was conducted by EPA and the Oregon Department of Environmental Quality (DEQ). EPA included the site on the NPL in 1983 because of documented lead contamination. In 1985 NL and Gould signed an Order on Consent with EPA under which the two companies conducted a Remedial Investigation/ Feasibility Study (RI/FS). The RI/FS was completed in February 1988. The RI/FS



showed there were high levels of lead contamination in soil, waste and debris and in East Doane Lake sediments at the site.

#### Soils Operable Unit Record of Decision

In March 1988, EPA issued a ROD for the Soils Operable Unit that detailed the actions deemed necessary to clean up the contamination. The selected remedy involved removing and recycling lead from battery casings; fixation of contaminated soil; and monitoring air, ground water and surface water quality as described below. The ROD also stated that there was insufficient information to make a decision on the need for groundwater cleanup.

The selected remedy included:

- \* Excavation of battery casing fragments and matte from the Gould property and adjacent properties;
- \* A phased design program to determine the amount of material that can be recycled and to minimize the amount of material that must be RCRA landfilled;
- \* Separation of the battery casing components;
- \* Recycling of those components (or portions of components) that can be recycled, off-site disposal for non-recyclable components that fail the EP toxicity test, and on-site disposal of non-hazardous, non-recyclable components;
- \* Excavation, fixation/stabilization and on-site disposal of the remaining soil, sediment, and matte;
- \* Soil capping and revegetation;
- \* Isolation of surface water runoff to East Doane Lake by site regrading; and
- \* A monitoring program to determine changes in groundwater contamination over time and to ensure that remediation does not adversely impact air quality.

On February 29, 1988, EPA sent Special Notice letters to Gould and NL to negotiate remedial design/remedial action. On June 15, 1989, a Consent Decree was entered into whereby NL agreed to perform predesign studies which evaluated the remedy selected in the ROD. The predesign studies, which included bench scale, pilot scale, and field demonstration testing, were completed in 1990. The studies evaluated several aspects of the cleanup remedy, including the ability of a proposed process to separate, clean and recycle the battery casing components.

Following the review of the Predesign Report (January, 1991) EPA determined that the results met the criteria in the Record of Decision and the Consent Decree. NL Industries agreed to complete the detailed design plans and specifications under a Consent Order with EPA. EPA approved the remedial design on September 30, 1991.

Special Notice Letters were sent to 21 companies requesting that they provide good faith offers to undertake the cleanup of the site. EPA entered into a De Minimis settlement with six of the companies who were smaller contributors to pollution at the Site. The U.S. District Court for the District of Oregon approved entry of the De Minimis settlement in February, 1993. Negotiations between the other companies and EPA did not result in a satisfactory settlement.

EPA issued a Unilateral Administrative Order to seven Gould Site potentially responsible parties (Gould Site PRPs) on January 22, 1992 which required them to perform remedial action at the Gould Superfund Site. The seven companies named include past or present owners, past operators of the facility, and major contributors of waste sent to the site. The companies agreed to comply with the Unilateral Administrative Order.

#### Cleanup Actions Taken under the Soils Operable Unit ROD

Excavation and treatment of contaminated surface soils, battery casing piles, buried battery casings, matte (smelter waste), and other debris began in the summer of 1993. Excavated battery casings were processed through a battery treatment plant to separate materials (lead fines, metallic lead, clean plastic, and clean ebonite) for recycle. Contaminated soil and matte were stabilized to bind contaminants for backfilling on site.

An estimated 24,000 tons of contaminated battery casings were treated through the treatment/separation process, with 244 tons of plastic and 88 tons of coarse lead recycled. An estimated 20,000 blocks (each measuring one cubic yard) of stabilized material was produced. Several hundred tons of contaminated debris were shipped off site for disposal. Approximately 15,000 cubic yards of contaminated material were stockpiled on site.

Several problems with the treatment/recycle process were encountered during the first year of operation. It was difficult to process the highly variable waste feed with consistent results in spite of numerous modifications made to improve the process. Estimated costs to complete the project also increased substantially. EPA subsequently determined that the selected remedy was no longer appropriate based on operating experience and conditions at the site.

In June 1997 EPA issued a ROD Amendment for the Soils Operable Unit that changed the cleanup remedy previously selected at the site. The selected remedy included the following:

- \* Construction of an on-site containment facility (OCF), which has a leachate collection system and allows for implementation of future Rhone-Poulenc cleanup actions, on the

Gould property;

- \* Excavation and denaturing of East Doane Lake sediments contaminated above RCRA characteristic hazardous waste levels;
- \* Excavation of the remaining battery casings on the Gould property;
- \* Treatment (stabilization or fixation) of the lead fines stockpile, the screened Gould excavation stockpile; and other lead contaminated material identified as principal threat waste;
- \* Consolidating contaminated material, including sediments, treated and untreated stockpiled materials, casings, soil and debris in the lined and capped OCF;
- \* Filling the East Doane Lake remnant (EDLR) and the open excavation in the Lake Area of the Rhone-Poulenc property;
- \* Institutional controls, such as deed restrictions or environmental protection easements, which (1) provide EPA access for the purpose of evaluating the remedial action, and (2) limit future use of properties within the site to industrial operations or other uses compatible with the protective level of cleanup achieved after implementation of the selected remedial action, and to uses which do not damage the OCF cap and liner system or cause releases of buried materials;
- \* Performing groundwater monitoring to ensure the effectiveness of the cleanup and that contaminants were not mobilized during its implementation; and
- \* Long-term operation and maintenance requirements and reviews conducted no less often than every five (5) years to ensure the remedy continues to provide adequate protection of human health and the environment.

#### ROD Amendment Remedial Action

Nine Gould Site Potentially Responsible Parties (PRPs) signed an agreement with EPA which required the parties to complete the cleanup alternative selected in the ROD Amendment. The agreement was finalized in a Consent Decree lodged in US District Court in Portland in March, 1998. The PRPs began work in the summer of 1998 with the excavation, dewatering and stockpiling of contaminated sediments from the East Doane Lake remnant. Construction of the on-site containment facility, excavation and treatment of other contaminated materials, placement of the waste in the containment facility, and other cleanup actions required by the ROD Amendment have been completed.

Cleanup actions under the Soils Operable Unit that have been completed include the following:

East Doane Lake Sediments - excavation and stockpiling an estimated 8700 cubic yards of contaminated EDLR sediment and debris was completed in November 1999. In addition, 55 compressed gas cylinders that were buried in the east portion of EDLR sediments were recovered, overacted, and transported to an off-site facility for treatment and disposal.

- \* Gould property battery casings - An estimated 3590 cubic yards of battery casings and other waste material were excavated from the south shoreline of EDLR.
- \* Treatment of principle threat/stockpiled material - An estimated 7850 cubic yards of stockpiled material, including the lead fines stockpile, were treated by fixation to pass RCRA characteristic waste levels.
- \* On-site containment facility - Construction of the containment facility subcells was completed and waste placement began in September 1999. The OCF includes a double bottom liner that includes geomembrane and geosynthetic clay composite layers, leachate collection and treatment, a leak detection system. The leachate collection and treatment system are operational. Leachate is pre-treated for metals prior to transport to the Rhone-Poulenc wastewater treatment facility for additional treatment of organics prior to discharge to the Willamette River in accordance with Rhone-Poulenc's NPDES permit.
- \* Consolidating contaminated material in the OCF - An estimated 77,700 cubic yards of contaminated material have been placed in the OCF. The 4.5 acre OCF was capped with a soil/synthetic composite cap following materials placement. The final topsoil cover and seeding were completed in August 2000.
- \* East Doane Lake remnant and the open excavation in the Lake Area of the Rhone-Poulenc property - Backfilling the East Doane Lake remnant and the open excavation in the Lake Area of Rhone-Poulenc with clean material was completed in 1998 following excavation of the contaminated sediments.
- \* Institutional controls - Future use of the property is limited to industrial or other uses compatible with the cleanup under the terms of the Environmental Protection Restrictive Covenant and Easements that were granted by property owners to meet the requirements of the ROD Amendment. EPA will evaluate the institutional controls at least every 5 years as part the 5 year reviews that will be conducted at the site.
- \* Groundwater monitoring - Groundwater monitoring was carried out during remedial action to ensure the effectiveness of the cleanup and that contaminants were not

mobilized during its implementation; and to gather additional information for the groundwater evaluation. Long-term groundwater monitoring will continue as part of the remedial action requirements for the Soils Operable Unit and the operation and maintenance plan for the OCF.

- \* Long-term operation and maintenance requirements and reviews conducted no less often than every five (5) years to ensure the remedy continues to provide adequate protection of human health and the environment.

The footprint of the onsite containment facility is within Gould property boundaries (see Figure 2). A 50-foot buffer area that runs along the south western property line (adjacent to Rhone-Poulenc) was provided to allow access for investigation and potential cleanup of groundwater contamination associated with Rhone-Poulenc operations.

### **3. COMMUNITY PARTICIPATION**

EPA has kept the public aware and updated with respect to cleanup activities and decisions at the site. Community participation in this process has included personal interviews, fact sheets, newspaper notices, and public comment on previous cleanup actions.

The Proposed Plan and other documents for the Gould site were made available to the public in August 2000. They can be found in the Administrative Record file that is maintained at the U.S. EPA records Center on the seventh floor of 1200 Sixth Avenue in Seattle. The notice of the availability of these documents was published in the Oregonian on August 10, 2000. A public comment period was held from August 10 to September 8, 2000. No comments were received during the public comment period. The Responsiveness Summary, which is part of this Record of Decision, provides additional information regarding the public comment period.

### **4. SCOPE AND ROLE OF THE OPERABLE UNIT**

EPA's no action determination for the Groundwater Operable Unit is part of an overall strategy for cleanup of the Gould Superfund Site. The cleanup actions previously completed at this site addressed highly contaminated material (soil, debris and sediments) including sources of potential groundwater contamination. These actions also eliminated the threat of contact with contaminated surface soil by excavating soil above 1,000 ppm lead, consolidating lead-contaminated material in the OCF, and placing clean fill over previously excavated areas.

The ROD issued in 1988 was for the Soils Operable Unit of the Gould Site. Lead contamination was the principal threat addressed in the ROD and the primary contaminant of concern addressed in the 1997 ROD Amendment.

This ROD is consistent with EPA's determination in the 1997 ROD Amendment for the

Soils Operable Unit. In the ROD Amendment, EPA determined that results of previous groundwater monitoring had not confirmed lead contamination in area groundwater. Data collected in 1995 and 1996 indicated that lead contamination was not widespread or significant in groundwater near the site. The ROD Amendment further concluded that although it did not appear there was a need for treatment of groundwater for lead, monitoring would be continued to further evaluate site conditions and provide a basis for future cleanup or no-action decisions for groundwater.

## 5. GROUNDWATER UNIT - SITE CHARACTERISTICS/INVESTIGATIONS

The Gould Site is located on fill that was placed in the flood plain of the Willamette River. The fill overlies alluvial deposits, which in turn overlies the Columbia River Basalt. The fill, which was deposited beginning in the 1930s until the early 1980s, consisted of diverse materials such as dredge spoils, demolition debris, rock quarry spoils, smelter slag and matte, and shredded battery casings. The fill thickness varies from approximately 1 foot to over 32 feet.

The alluvium beneath the fill is a mixture that includes sands, sandy silts, and silty clay and is approximately 40 to 70 feet thick. The Columbia River basalt that underlies the alluvium beneath the site is estimated to be more than 500 feet thick. The fill and alluvial deposits underlying the site form an interconnected, heterogeneous aquifer. Groundwater in the fill water-bearing unit is within a few feet of the ground surface during the winter and spring when precipitation and groundwater levels are highest. Flow is predominantly northward toward the Willamette River.

Groundwater recharge in the area occurs as a result of stormwater infiltration from the site, as well as from upland areas to the south and west.

Concentrations of lead in groundwater exceeded 0.05 mg/l, the maximum contaminant level (MCL) established by the National Interim Primary Drinking Water Regulations and in effect at the time of the 1988 ROD, in a small portion of the fill and a larger portion of the alluvial aquifer. Lead concentrations in the fill and alluvial aquifer appeared to be associated with sulfate and hydrogen ion (measured as pH) concentrations. Elevated concentrations of lead were typically observed with similarly elevated sulfate concentrations and with low pH levels.

After the 1988 ROD for the Soils Operable Unit was issued, EPA sent 104(e) request for information letters to property owners in the Doane Lake area to gather additional information on groundwater contamination. Several industries in the area formed the Doane Lake Industrial Group and agreed to undertake an hydrogeologic investigation under a Consent Order with DEQ in 1990. A final report, *Hydrogeologic Investigation of the Doane Lake Area*, was submitted to DEQ in 1991. The report data indicated that the Rhone-Poulenc site, which is located adjacent to the Gould Site, is a potential source of organic contamination in groundwater. DEQ subsequently decided to focus on individual sites in the area rather than continue to pursue area

wide studies with the industry group.

The Rhone-Poulenc site is the location of a former pesticide/herbicide manufacturing and formulating facility. The Rhone-Poulenc site is contaminated with herbicide and pesticide wastes and associated chemicals from past operations at the site. DEQ is overseeing a RI/FS for the Rhone-Poulenc site under state authority. The RI includes a comprehensive groundwater investigation which will provide information on the nature and extent of groundwater contamination that has resulted from past operations at Rhone-Poulenc. The groundwater investigation includes portions of the Gould Site, and future cleanup of Rhone-Poulenc contaminants may be required at the Gould Site.

Additional groundwater and surface water investigations have been conducted as part of the remedial action for the Soils Operable Unit and further investigation at the Gould Site. Sample results from groundwater monitoring wells located on- and off-site have not shown the need for groundwater cleanup for lead contamination. For example, lead levels in groundwater samples collected from wells located directly downgradient from the site have been below 0.015mg/l, the current action level for lead established by the Safe Drinking Water Act, and most of the results have been non-detect for lead. Additionally, the low pH conditions in groundwater, which coincided with elevated lead levels, have not been observed in recent years. Summary tables of groundwater monitoring data for lead are attached to this document. Monitoring well locations are shown on Figure 3.

Other contaminants that may be associated with past Gould Site operations that have been detected in groundwater include arsenic, cadmium, and chromium. Two rounds of groundwater monitoring conducted in 1995 showed these contaminants were below MCLs except for the results for one well, AL-5s, which exceeded the MCL for arsenic. Monitoring well AL-5s is located on Rhone-Poulenc property. Arsenic is also a contaminant of concern associated with past operations at the Rhone-Poulenc site, and additional sampling of monitoring well AL-5s is being carried out as part of the groundwater investigation for the Rhone-Poulenc RI/FS.

## **6. CURRENT AND POTENTIAL FUTURE SITE AND RESOURCE USES**

The Gould Site is located in the Doane Lake Industrial Area. The area is zoned for heavy industrial use. The site is currently unoccupied, with over 4 acres of the site being taken up by the onsite containment facility. Future use of the property is limited to industrial or other uses compatible with the cleanup under the terms of the Environmental Protection Restrictive Covenant and Easements that were granted to meet the requirements of the Amended ROD for the Soils Operable Unit.

The area surrounding the site is currently served by a municipal water supply system that provides potable water. There are no drinking water supply wells on or down gradient of the Gould Site. There are deep wells located near the Gould Site that have been used to supply water

for industrial uses (non-drinking water) purposes.

## **7. SUMMARY OF SITE RISKS**

EPA evaluated the results of groundwater monitoring conducted at the Gould Site over the past several years to determine if Gould Site contaminants in groundwater present a current or potential risk to human health. Results of groundwater monitoring were compared with the 0.015 mg/l action level for lead established under the Safe Drinking Water Act. The action level, which was established by a Federal rule in 1991 and replaced the 0.050 mg/l maximum contaminant level, is based on measurements that would be taken at the tap, or point of consumption. The action level triggers water systems into taking treatment steps if exceeded in more than 10% of tap water samples. Although there are no current or anticipated uses of groundwater as a drinking water source at the Gould Site, EPA used the action level for screening purposes in order to provide a conservative basis for deciding whether further evaluation of cleanup alternatives is necessary.

Groundwater monitoring results for lead show that only intermittent exceedences of the action level have occurred since 1993, and there have been no exceedences at the wells located on or directly downgradient from the Gould Site for the past three years. Based on these results, evaluating cleanup alternatives through a feasibility study is not necessary.

EPA has not completed an evaluation of contamination or conducted a risk assessment for organic contaminants that are believed to be associated with the adjacent Rhone-Poulenc site. DEQ is currently overseeing a detailed investigation of soil and groundwater at Rhone-Poulenc and surrounding properties. The investigation will include a risk assessment that will be used to determine the need for cleanup of contamination associated with Rhone-Poulenc. EPA's no action determination for the Gould Site will not limit DEQ's ability to require cleanup of groundwater associated with Rhone-Poulenc contamination.

Institutional controls were implemented as part of the remedial action for the Soils Operable Unit. Future use of the property is limited to industrial or other uses compatible with the cleanup under the terms of the Environmental Protection Restrictive Covenant and Easements that were granted to meet the requirements of the ROD Amendment. EPA will evaluate the institutional controls at least every 5 years as part the 5 year reviews that will be conducted at the site. The next 5 year review for the Gould Site is scheduled for 2002.

## **8. DOCUMENTATION OF SIGNIFICANT CHANGES**

EPA's determination that no remedial action is necessary for the Groundwater Operable Unit is consistent with the agency's recommendation in the Proposed Plan.



**Gould Superfund Site  
Groundwater Operable Unit  
Record of Decision**

**Responsiveness Summary**

The 30-day public comment period regarding EPA's proposed cleanup plan for the Gould Site Groundwater Operable Unit was held from August 10, 2000 to September 8, 2000.. No comments were received during the public comment period.

The Administrative Record and the Proposed Plan are available for review at the Multnomah County Library in downtown Portland, Oregon and at EPA's offices in Seattle, Washington. Copies of a fact sheet that summarized Proposed Plan were mailed to local citizens and other interest groups that were on a mailing list developed as part of the Community Relations Plan for this Site. A notice was placed in the Oregonian newspaper that announced the public comment period, briefly described EPA's preferred alternative for no-action, and provided information about the review of the Proposed Plan and the Administrative Record. The Oregonian also featured an article in the Metro/Northwest section about the Proposed Plan and opportunity for public comment.

The no-action preferred alternative described in the Proposed Plan has been selected by EPA as the no-action remedy for the Groundwater Operable Unit in the Record of Decision.

**Gould Superfund Site  
Groundwater Operable Unit  
Record of Decision**

**Figures**



Scale 1:24,000



SOURCE: USGS 7.5-MINUTE QUADRANGLE.  
LINNTON AND PORTLAND

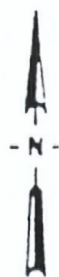


FIGURE 1  
GOULD SITE



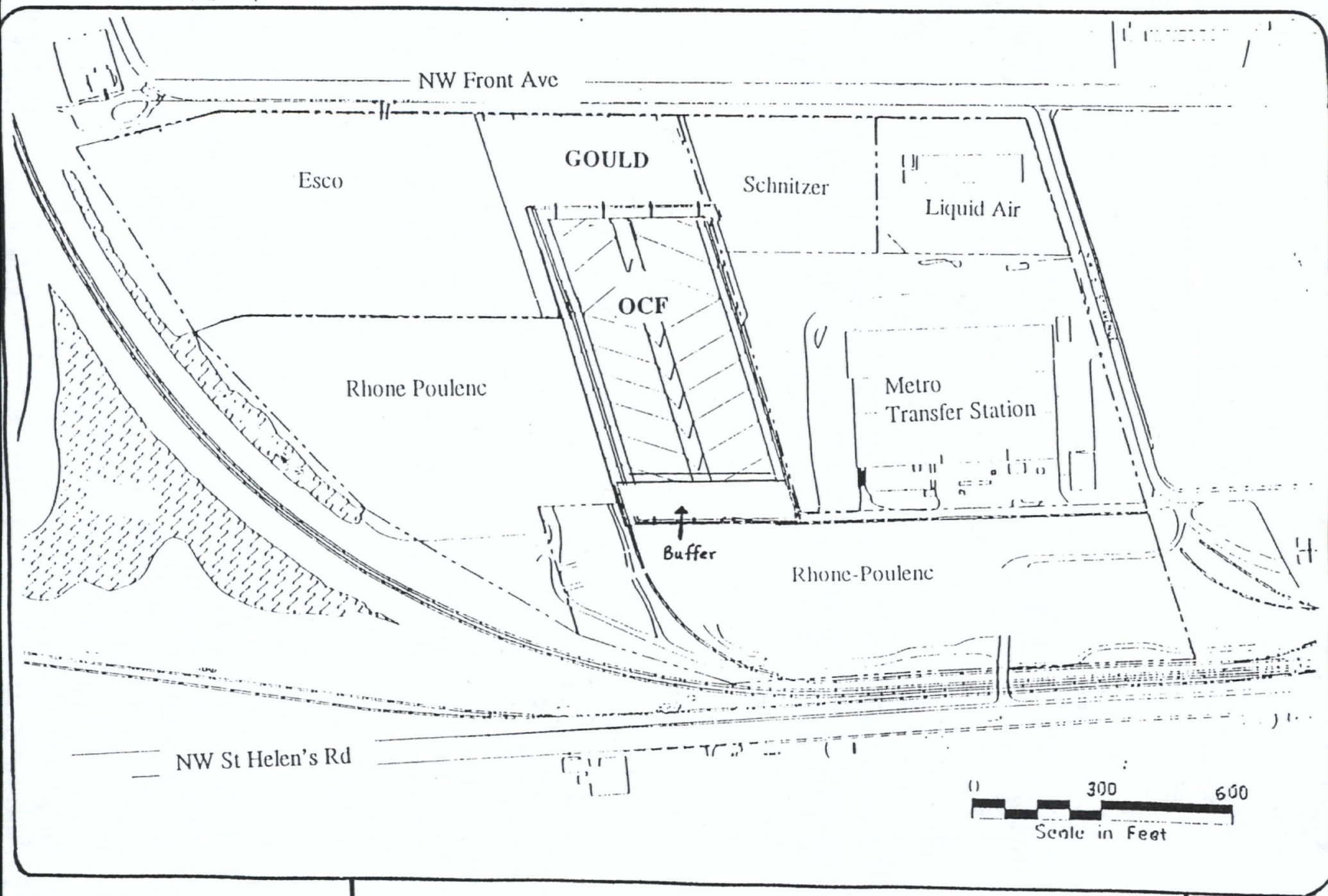


FIGURE 2

GOULD SUPERFUND SITE    ONSITE CONTAINMENT FACILITY (OCF)



**Gould Superfund Site  
Groundwater Operable Unit  
Record of Decision**

**Groundwater Monitoring Data for Lead  
Summary Tables**



Gould Superfund Site  
Portland, Oregon  
Ground Water Sampling  
W-1 Cluster, Gould Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-1i	8/28/86		Lead, dissolved	ND		
W-1i	12/10/86		Lead, dissolved	ND		HT
W-1i	12/10/86		Lead, total	ND		HT
W-1i	12/10/86		Lead, total	ND		HT
W-1s	12/10/86		Lead, total	0.01		HT
W-1s	12/10/86		Lead, total	0.01		HT
W-1s	12/10/86		Lead, dissolved	ND	0.005	HT
W-1i	2/17/87		Lead, dissolved	ND		HT
W-1i	2/17/87		Lead, total	ND		HT
W-1i	2/17/87		Lead, total	ND		HT
W-1s	2/17/87		Lead, total	0.04		HT
W-1s	2/17/87		Lead, total	0.04		HT
W-1s	2/17/87		Lead, dissolved	ND	0.005	HT
W-1s	10/23/92		Lead, dissolved	ND	0.002	HT
W-1s	8/5/93		Lead, total	ND	0.0125	HT/98E
W-1s	8/5/93		Lead, dissolved	ND	0.0125	HT/98E
W-1s	9/23/93		Lead, total	ND	0.0125	HT/98E
W-1s	9/23/93		Lead, total	ND	0.0125	HT/98E
W-1s	9/23/93		Lead, dissolved	ND	0.0125	HT/98E
W-1s	9/23/93	D	Lead, dissolved	ND	0.0125	HT/98E
W-1s	10/25/93		Lead, total	ND	0.0125	HT/98E
W-1s	10/25/93		Lead, dissolved	ND	0.0125	HT/98E
W-1s	11/26/93		Lead, total	ND	0.0125	HT/98E
W-1s	11/26/93		Lead, dissolved	ND	0.0125	HT/98E
W-1s	12/16/93		Lead, total	ND	0.0125	HT/98E
W-1s	12/16/93	D	Lead, total	ND	0.0125	HT/98E
W-1s	12/16/93		Lead, dissolved	ND	0.0125	HT/98E
W-1s	12/16/93	D	Lead, dissolved	ND	0.0125	HT/98E
W-1s	1/26/94		Lead, total	ND	0.0125	HT/98E
W-1s	1/26/94		Lead, dissolved	ND	0.0125	HT/98E
W-1s	2/16/94		Lead, total	ND	0.0125	HT/98E
W-1s	2/16/94		Lead, dissolved	ND	0.0125	HT/98E
W-1s	3/9/94		Lead, total	ND	0.0125	HT/98E
W-1s	3/9/94		Lead, dissolved	ND	0.0125	HT/98E
W-1s	4/4/94		Lead, total	ND	0.0125	HT/98E
W-1s	4/4/94		Lead, dissolved	ND	0.0125	HT/98E
W-1s	5/31/94		Lead, total	ND	0.0125	HT/98E
W-1s	5/31/94		Lead, dissolved	ND	0.0125	HT/98E
W-1s	6/6/94		Lead, total	ND	0.0125	HT/98E
W-1s	6/6/94		Lead, dissolved	ND	0.0125	HT/98E
W-1s	7/5/94		Lead, total	ND	0.0125	HT/98E
W-1s	7/5/94	D	Lead, total	ND	0.0125	HT/98E
W-1s	7/5/94		Lead, dissolved	ND	0.0125	HT/98E
W-1s	7/5/94	D	Lead, dissolved	ND	0.0125	HT/98E
W-1s	8/18/94		Lead, total	ND	0.0125	HT/98E
W-1s	8/18/94		Lead, dissolved	ND	0.0125	HT/98E
W-1s	9/29/94		Lead, total	ND	0.0125	HT/98E
W-1s	9/29/94		Lead, dissolved	ND	0.0125	HT/98E
W-1s	10/31/94		Lead, total	ND	0.0125	HT/98E
W-1s	10/31/94		Lead, dissolved	ND	0.0125	HT/98E
W-1s	11/21/94		Lead, total	ND	0.0125	HT/98E
W-1s	11/21/94		Lead, total	ND	0.0125	HT/98E
W-1s	11/21/94		Lead, dissolved	ND	0.0125	HT/98E
W-1s	11/21/94		Lead, dissolved	ND	0.0125	HT/98E

**Source Key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Catalogue

Gould Superfund Site  
Portland, Oregon  
Ground Water Sampling  
W-1 Cluster, Gould Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-1s	12/20/94		Lead, total	ND	0.0125	HT
W-1s	12/20/94		Lead, dissolved	ND	0.0125	HT
W-1s	1/25/95		Lead, total	ND	0.0125	HT
W-1s	1/25/95		Lead, dissolved	ND	0.0125	HT
W-1s	3/1/95		Lead, total	ND	0.0125	HT
W-1s	3/1/95	D	Lead, total	ND	0.0125	HT
W-1s	3/1/95		Lead, dissolved	ND	0.0125	HT
W-1s	3/1/95		Lead, dissolved	ND	0.0125	HT
W-1s	3/31/95		Lead, total	ND	0.0125	HT
W-1s	3/31/95	D	Lead, total	ND	0.0125	HT
W-1s	3/31/95		Lead, dissolved	ND	0.0125	HT
W-1s	3/31/95		Lead, dissolved	ND	0.0125	HT
W-1s	5/1/95		Lead, total	ND	0.0125	98E
W-1s	5/1/95		Lead, total	ND	0.0125	HT
W-1s	5/1/95		Lead, dissolved	ND	0.0125	98E
W-1s	5/1/95		Lead, dissolved	ND	0.0125	HT
W-1s	5/24/95		Lead, total	0.025		98E
W-1s	5/24/95		Lead, total	0.025		HT
W-1s	5/24/95		Lead, dissolved	ND	0.0125	98E
W-1s	5/24/95		Lead, dissolved	ND	0.0125	HT
W-1s	6/23/95		Lead, total	ND	0.0125	98E
W-1s	6/23/95		Lead, total	ND	0.0125	98E
W-1s	6/23/95		Lead, total	ND	0.0125	98E
W-1s	6/23/95		Lead, dissolved	ND	0.0125	98E
W-1s	6/23/95		Lead, dissolved	ND	0.0125	HT
W-1s	6/23/95		Lead, dissolved	ND	0.0125	HT
W-1s	7/31/95		Lead, total	ND	0.0005	98E
W-1s	7/31/95		Lead, total	ND	0.0005	HT
W-1s	7/31/95		Lead, total	ND	0.0005	HT
W-1s	7/31/95		Lead, dissolved	0.0015		98E
W-1s	7/31/95		Lead, dissolved	0.0015		HT
W-1s	7/31/95		Lead, dissolved	0.0015		HT
W-1s	8/31/95		Lead, total	ND	0.0125	98E
W-1s	8/31/95		Lead, total	ND	0.0125	HT
W-1s	8/31/95		Lead, dissolved	ND	0.0125	98E
W-1s	8/31/95		Lead, dissolved	ND	0.0125	HT
W-1s	9/29/95		Lead, total	ND	0.025	HT/98E
W-1s	9/29/95		Lead, dissolved	ND	0.025	HT/98E
W-1s	10/26/95		Lead, total	ND	0.025	HT/98E
W-1s	10/26/95		Lead, dissolved	ND	0.025	HT/98E
W-1s	11/29/95		Lead, total	ND	0.025	HT/98E
W-1s	11/29/95		Lead, dissolved	ND	0.025	HT/98E
W-1s	12/18/95		Lead, total	ND	0.025	HT/98E
W-1s	12/18/95		Lead, dissolved	ND	0.025	HT/98E
W-1s	1/18/96		Lead, total	ND	0.025	HT/98E
W-1s	1/18/96		Lead, dissolved	ND	0.025	HT/98E
W-1s	2/26/96		Lead, total	ND	0.002	HT/98E
W-1s	2/26/96		Lead, dissolved	ND	0.002	HT/98E
W-1s	3/20/96		Lead, total	ND	0.002	HT/98E
W-1s	3/20/96		Lead, dissolved	ND	0.002	HT/98E
W-1s	4/30/96		Lead, total	ND	0.002	HT/98E
W-1s	4/30/96		Lead, dissolved	ND	0.002	HT/98E
W-1s	5/14/96		Lead, total	ND	0.002	HT/98E
W-1s	5/14/96		Lead, dissolved	ND	0.002	HT/98E
W-1s	6/20/96		Lead, total	ND	0.002	HT/98E

**Source Key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database



Gould Superfund Site  
Portland, Oregon  
Ground Water Sampling  
W-1 Cluster, Gould Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-1s	6/20/96		Lead, dissolved	ND	0.002	HT/98E
W-1s	7/23/96		Lead, total	ND	0.002	HT/98E
W-1s	7/23/96		Lead, dissolved	ND	0.002	HT/98E
W-1s	8/22/96	D	Lead, total	ND	0.002	HT/98E
W-1s	8/22/96		Lead, total	ND	0.002	HT/98E
W-1s	8/22/96	D	Lead, dissolved	ND	0.002	HT/98E
W-1s	8/22/96		Lead, dissolved	ND	0.002	HT/98E
W-1s	9/13/96		Lead, total	ND	0.002	HT/98E
W-1s	9/13/96		Lead, dissolved	ND	0.002	HT/98E
W-1s	10/24/96		Lead, total	ND	0.002	HT/98E
W-1s	10/24/96		Lead, dissolved	ND	0.002	HT/98E
W-1s	11/23/96		Lead, total	ND	0.002	HT/98E
W-1s	11/23/96		Lead, dissolved	ND	0.002	HT/98E
W-1s	12/18/96		Lead, total	ND	0.002	HT/98E
W-1s	12/18/96		Lead, dissolved	ND	0.002	HT/98E
W-1s	1/22/97		Lead, total	ND	0.002	HT/98E
W-1s	1/22/97		Lead, dissolved	ND	0.002	HT/98E
W-1s	2/24/97		Lead, total	ND	0.002	HT/98E
W-1s	2/24/97		Lead, dissolved	ND	0.002	HT/98E
W-1s	3/27/97		Lead, total	ND	0.0020	HT/98E
W-1s	3/27/97		Lead, dissolved	ND	0.002	HT/98E
W-1s	4/24/97		Lead, total	0.0047		HT/98E
W-1s	4/24/97		Lead, dissolved	ND	0.002	HT/98E
W-1s	5/29/97		Lead, total	ND	0.0020	HT/98E
W-1s	5/29/97		Lead, dissolved	ND	0.002	HT/98E
W-1s	6/24/97		Lead, total	ND	0.0020	HT/98E
W-1s	6/24/97		Lead, dissolved	ND	0.002	HT/98E
W-1s	7/28/97		Lead, total	ND	0.0020	HT/98E
W-1s	7/28/97		Lead, dissolved	ND	0.002	HT/98E
W-1s	8/13/97		Lead, total	ND	0.0020	HT/98E
W-1s	8/13/97		Lead, dissolved	ND	0.002	HT/98E
W-1s	9/18/97		Lead, total	ND	0.0020	HT/98E
W-1s	9/18/97		Lead, dissolved	ND	0.002	HT/98E
W-1s	10/13/97		Lead, total	ND	0.0010	HT/98E
W-1s	10/13/97		Lead, dissolved	ND	0.001	HT/98E
W-1s	11/24/97		Lead, total	ND	0.0010	HT/98E
W-1s	11/24/97	D	Lead, total	ND	0.0010	HT/98E
W-1s	11/24/97		Lead, dissolved	ND	0.001	HT/98E
W-1s	11/24/97	D	Lead, dissolved	ND	0.001	HT/98E
W-1s	12/10/97		Lead, total	ND	0.0020	HT/98E
W-1s	12/10/97		Lead, dissolved	ND	0.002	HT/98E
W-1s	1/20/98		Lead, total	0.0039	0.0020	HT/98E
W-1s	1/20/98		Lead, dissolved	ND	0.002	HT/98E
W-1s	8/27/98		Lead, total	0.0022	0.0020	HT/98E
W-1s	8/27/98	D	Lead, total	ND	0.0020	HT/98E
W-1s	8/27/98		Lead, dissolved	ND	0.002	HT/98E
W-1s	8/27/98	D	Lead, dissolved	ND	0.002	HT/98E
W-1s	10/12/98		Lead, total	0.0036	0.0020	HT/98E
W-1s	10/12/98		Lead, dissolved	ND	0.002	HT/98E
W-1s	1/14/99		Lead, total	0.0032	0.002	AGC
W-1s	1/14/99		Lead, dissolved	0.0035	0.002	AGC
W-1s	1/14/99		Lead, total	ND	0.002	AGC
W-1s	1/14/99		Lead, dissolved	ND	0.002	AGC

DL = Detection Limit  
D = Duplicate Sample

**Source Key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

PB-Summary.xls W-1

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
W-2 Cluster

Well(1)	Date	Qualifier	Analyte	Result (mg/L)	DL	Source
W-2-i	8/28/86		Lead, dissolved	0.21		MB
W-2-i	12/19/86		Lead, dissolved	0.03		MB
W-2-i	12/19/86		Lead, total	1.7		MB
W-2-i	2/26/87		Lead, dissolved	0.05		MB
W-2-i	2/26/87	D	Lead, dissolved	0.03		MB
W-2-i	2/26/87		Lead, total	0.5		MB
W-2-i	2/26/87	D	Lead, total	0.49		MB
W-2-s	12/22/86		Lead, total	0.27		MB
W-2-s	12/22/86		Lead, dissolved	ND	0.005	MB
W-2-s	2/17/87		Lead, total	0.21		MB
W-2-s	2/17/87	D	Lead, total	0.4		MB
W-2-s	2/17/87		Lead, dissolved	ND	0.005	MB
W-2-s	2/17/87	D	Lead, dissolved	ND	0.005	MB

DL = Detection Limit  
D = Duplicate Sample

Source key =

HT - Historic Tables maintained by Environ  
95E - Environ, Feb 95 - Aug 95  
98E - Environ Report  
AGC - 1999 Sampling  
MB - McKenna Bates Database  
PB-Summanes.xls W-2

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
W-3 Cluster, Gould Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-3s	1/1/82		Lead, total	ND	0.0025	MB
W-3d	8/27/86		Lead, dissolved	0.03		HT
W-3d	12/17/86		Lead, dissolved	0.03		HT
W-3d	12/17/86		Lead, total	0.02		HT
W-3d	12/17/86		Lead, total	0.02		HT
W-3d	12/21/86		Lead, dissolved	ND	0.005	HT
W-3d	12/21/86		Lead, total	ND	0.005	HT
W-3d	12/21/86		Lead, total	ND	0.005	HT
W-3s	12/29/86		Lead, dissolved	ND	0.005	HT
W-3s	12/29/86		Lead, total	ND	0.005	HT
W-3s	12/29/86		Lead, total	ND	0.005	HT
W-3d	2/19/87		Lead, dissolved	0.02		HT
W-3d	2/19/87		Lead, total	0.02		HT
W-3d	2/19/87		Lead, total	0.02		HT
W-3s	2/19/87		Lead, dissolved	ND	0.005	HT
W-3s	2/19/87		Lead, total	ND	0.005	HT
W-3s	2/19/87		Lead, total	ND	0.005	HT
W-3d	12/21/87		Lead, dissolved	0.01		HT
W-3d	12/21/87		Lead, total	0.05		HT
W-3d	12/21/87		Lead, total	0.04		HT
W-3s	8/5/93		Lead, total	ND	0.025	HT/98E
W-3s	8/5/93		Lead, dissolved	ND	0.025	HT/98E
W-3s	9/23/93	D	Lead, total	ND	0.025	HT/98E
W-3s	9/23/93		Lead, total	ND	0.025	HT/98E
W-3s	9/23/93	D	Lead, dissolved	ND	0.025	HT/98E
W-3s	9/23/93		Lead, dissolved	ND	0.025	HT/98E
W-3s	10/25/93		Lead, total	ND	0.025	HT/98E
W-3s	10/25/93		Lead, dissolved	ND	0.025	HT/98E
W-3s	11/26/93		Lead, total	ND	0.025	HT/98E
W-3s	11/26/93		Lead, dissolved	ND	0.025	HT/98E
W-3s	12/17/93	D	Lead, total	ND	0.025	HT/98E
W-3s	12/17/93		Lead, total	ND	0.025	HT/98E
W-3s	1/28/94		Lead, total	ND	0.025	HT/98E
W-3s	1/28/94		Lead, dissolved	ND	0.025	HT/98E
W-3s	2/17/94		Lead, total	ND	0.025	HT/98E
W-3s	2/17/94		Lead, dissolved	ND	0.025	HT/98E
W-3s	3/15/94		Lead, total	ND	0.025	HT/98E
W-3s	3/15/94		Lead, dissolved	ND	0.025	HT/98E
W-3s	4/6/94		Lead, total	ND	0.025	HT/98E
W-3s	4/6/94		Lead, dissolved	ND	0.025	HT/98E
W-3s	5/26/94		Lead, total	ND	0.025	HT/98E
W-3s	5/26/94		Lead, dissolved	ND	0.025	HT/98E
W-3s	6/22/94	D	Lead, total	ND	0.025	HT/98E
W-3s	6/22/94		Lead, total	ND	0.025	HT/98E
W-3s	6/22/94	D	Lead, dissolved	ND	0.025	HT/98E
W-3s	6/22/94		Lead, dissolved	ND	0.025	HT/98E
W-3s	7/13/94	D	Lead, total	ND	0.025	HT/98E
W-3s	7/13/94		Lead, total	ND	0.025	HT/98E
W-3s	7/13/94	D	Lead, dissolved	ND	0.025	HT/98E
W-3s	7/13/94		Lead, dissolved	ND	0.025	HT/98E
W-3s	8/19/94		Lead, total	ND	0.025	HT/98E

**Source Key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

PR - Summaries 4/5 W-3

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
W-3 Cluster, Gould Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-3s	8/19/94		Lead, dissolved	ND	0.025	HT/98E
W-3s	9/29/94		Lead, total	ND	0.025	HT/98E
W-3s	9/29/94		Lead, dissolved	ND	0.025	HT/98E
W-3s	10/31/94		Lead, total	ND	0.025	HT/98E
W-3s	10/31/94		Lead, dissolved	ND	0.025	HT/98E
W-3s	11/21/94	D	Lead, total	ND	0.025	HT/98E
W-3s	11/21/94		Lead, total	ND	0.025	HT/98E
W-3s	11/21/94	D	Lead, dissolved	ND	0.025	HT/98E
W-3s	11/21/94		Lead, dissolved	ND	0.025	HT/98E
W-3s	12/21/94		Lead, total	0.036	0.025	HT/98E
W-3s	12/21/94		Lead, dissolved	ND	0.025	HT/98E
W-3s	1/25/95		Lead, total	ND	0.025	HT/98E
W-3s	1/25/95		Lead, dissolved	ND	0.025	HT/98E
W-3s	3/1/95		Lead, total	ND	0.025	HT/98E
W-3s	3/1/95		Lead, dissolved	ND	0.025	HT/98E
W-3s	3/21/95		Lead, total	0.009		MB
W-3s	3/21/95		Lead, dissolved	ND	0.0025	MB
W-3i	3/21/95		Lead, dissolved	ND	0.0025	MB
W-3i	3/21/95		Lead, total	ND	0.0025	MB
W-3d	3/22/95		Lead, dissolved	ND	0.0025	MB
W-3d	3/22/95		Lead, total	ND	0.0025	MB
W-3i	3/30/95		Lead, dissolved	ND	0.0025	MB
W-3i	3/30/95		Lead, total	ND	0.0025	MB
W-3s	3/31/95	D	Lead, total	0.041	0.025	HT/98E
W-3s	3/31/95		Lead, total	0.036	0.025	HT/98E
W-3s	3/31/95	D	Lead, dissolved	ND	0.025	HT/98E
W-3s	3/31/95		Lead, dissolved	ND	0.025	HT/98E
W-3s	5/1/95		Lead, total	0.06		HT/98E
W-3s	5/1/95		Lead, dissolved	ND	0.0125	HT/98E
W-3s	5/1/95		Lead, total	0.060	0.025	HT/98E
W-3s	5/1/95		Lead, dissolved	ND	0.025	HT/98E
W-3d	5/3/95		Lead, total	0.0027		HT
W-3d	5/3/95		Lead, dissolved	ND	0.0005	HT
W-3i	5/3/95		Lead, dissolved	ND	0.005	HT
W-3i	5/3/95		Lead, total	ND	0.005	HT
W-3s	5/3/95		Lead, total	0.0082	0.001	HT/98E
W-3s	5/3/95		Lead, dissolved	ND	0.0010	HT/98E
W-3s	5/24/95		Lead, total	ND	0.025	HT/98E
W-3s	5/24/95		Lead, dissolved	ND	0.025	HT/98E
W-3s	6/23/95		Lead, total	ND	0.025	HT/98E
W-3s	6/23/95		Lead, dissolved	ND	0.025	HT/98E
W-3i	7/31/95		Lead, dissolved	ND	0.005	HT/98E
W-3i	7/31/95		Lead, dissolved	ND	0.005	HT/98E
W-3i	7/31/95		Lead, total	ND	0.005	HT/98E
W-3s	7/31/95		Lead, total	ND	0.025	HT
W-3s	7/31/95		Lead, dissolved	ND	0.0010	HT
W-3d	8/10/95		Lead, dissolved	ND	0.0005	HT
W-3d	8/10/95		Lead, dissolved	ND	0.0005	HT
W-3d	8/10/95		Lead, total	ND	0.0005	HT
W-3d	8/10/95		Lead, total	ND	0.0005	HT
W-3s	8/31/95		Lead, dissolved	ND	0.0125	HT

**Source Key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
W-3 Cluster, Gould Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-3s	8/31/95		Lead, total	ND	0.0125	HT
W-3s	8/31/95		Lead, total	ND	0.025	HT/98E
W-3s	8/31/95		Lead, dissolved	ND	0.025	HT/98E
W-3s	9/29/95		Lead, total	ND	0.025	HT/98E
W-3s	9/29/95		Lead, dissolved	ND	0.025	HT/98E
W-3s	10/26/95		Lead, total	ND	0.025	HT/98E
W-3s	10/26/95		Lead, dissolved	ND	0.025	HT/98E
W-3s	11/29/95		Lead, total	ND	0.025	HT/98E
W-3s	11/29/95		Lead, dissolved	ND	0.025	HT/98E
W-3s	12/18/95		Lead, total	ND	0.025	HT/98E
W-3s	12/18/95		Lead, dissolved	ND	0.025	HT/98E
W-3s	1/19/96		Lead, total	ND	0.025	HT/98E
W-3s	1/19/96		Lead, dissolved	ND	0.025	HT/98E
W-3s	2/27/96		Lead, total	ND	0.002	HT/98E
W-3s	2/27/96		Lead, dissolved	ND	0.002	HT/98E
W-3s	3/21/96		Lead, total	ND	0.002	HT/98E
W-3s	3/21/96		Lead, dissolved	ND	0.002	HT/98E
W-3s	4/30/96		Lead, total	ND	0.002	HT/98E
W-3s	4/30/96		Lead, dissolved	ND	0.002	HT/98E
W-3s	5/15/96	D	Lead, total	ND	0.025	HT/98E
W-3s	5/15/96		Lead, total	0.0021	0.002	HT/98E
W-3s	5/15/96	D	Lead, dissolved	ND	0.025	HT/98E
W-3s	5/15/96		Lead, dissolved	ND	0.002	HT/98E
W-3s	6/19/96		Lead, total	ND	0.002	HT/98E
W-3s	6/19/96		Lead, dissolved	ND	0.002	HT/98E
W-3s	7/24/96		Lead, total	ND	0.002	HT/98E
W-3s	7/24/96		Lead, dissolved	ND	0.002	HT/98E
W-3s	8/22/96		Lead, total	ND	0.002	HT/98E
W-3s	8/22/96		Lead, dissolved	ND	0.002	HT/98E
W-3s	9/12/96		Lead, total	ND	0.002	HT/98E
W-3s	9/12/96		Lead, dissolved	ND	0.002	HT/98E
W-3s	10/25/96		Lead, total	ND	0.002	HT/98E
W-3s	10/25/96		Lead, dissolved	ND	0.002	HT/98E
W-3s	11/25/96	D	Lead, total	ND	0.025	HT/98E
W-3s	11/25/96	D	Lead, total	ND	0.002	HT/98E
W-3s	11/25/96	D	Lead, dissolved	ND	0.025	HT/98E
W-3s	11/25/96	D	Lead, dissolved	ND	0.002	HT/98E
W-3d	12/11/96		Lead, total	ND	0.005	HT
W-3d	12/11/96	D	Lead, total	ND	0.005	HT
W-3i	12/12/96		Lead, total	ND	0.005	HT
W-3s	12/12/96		Lead, total	0.0062	0.002	98E
W-3s	12/12/96		Lead, dissolved	ND	0.002	98E
W-3s	1/23/97		Lead, total	ND	0.002	98E
W-3s	1/23/97		Lead, dissolved	ND	0.002	98E
W-3s	2/25/97		Lead, total	ND	0.002	98E
W-3s	2/25/97		Lead, dissolved	ND	0.002	98E
W-3s	3/28/97		Lead, total	0.0028	0.002	98E
W-3s	3/28/97		Lead, dissolved	ND	0.002	98E
W-3s	4/25/97		Lead, total	ND	0.002	98E
W-3s	4/25/97		Lead, dissolved	ND	0.002	98E
W-3s	5/30/97		Lead, total	ND	0.002	98E

Source Key =

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

98 Summary, 98-10-1

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
W-3 Cluster, Gould Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-3s	5/30/97		Lead, dissolved	ND	0.002	98E
W-3s	6/26/97		Lead, total	ND	0.002	98E
W-3s	6/26/97		Lead, dissolved	ND	0.002	98E
W-3s	7/29/97		Lead, total	ND	0.002	98E
W-3s	7/29/97	D	Lead, total	ND	0.002	98E
W-3s	7/29/97		Lead, dissolved	ND	0.002	98E
W-3s	7/29/97	D	Lead, dissolved	ND	0.002	98E
W-3s	8/14/97		Lead, total	ND	0.002	98E
W-3s	8/14/97		Lead, dissolved	ND	0.002	98E
W-3s	9/19/97		Lead, total	ND	0.002	98E
W-3s	9/19/97		Lead, dissolved	ND	0.002	98E
W-3s	10/14/97		Lead, total	ND	0.0010	98E
W-3s	10/14/97		Lead, dissolved	ND	0.0010	98E
W-3s	11/25/97		Lead, total	0.0014	0.0010	98E
W-3s	11/25/97		Lead, dissolved	ND	0.0010	98E
W-3s	12/11/97		Lead, total	ND	0.0020	98E
W-3s	12/11/97		Lead, dissolved	ND	0.0020	98E
W-3s	1/21/98		Lead, total	ND	0.0020	98E
W-3s	1/21/98		Lead, dissolved	ND	0.0020	98E
W-3s	8/27/98		Lead, total	0.0031	0.0020	98E
W-3s	8/27/98		Lead, dissolved	ND	0.0020	98E
W-3s	10/12/98		Lead, total	0.0021	0.0020	98E
W-3s	10/12/98	D	Lead, total	0.0027	0.0020	98E
W-3s	10/12/98		Lead, dissolved	ND	0.0020	98E
W-3s	10/12/98	D	Lead, dissolved	ND	0.0020	98E
W-3s	1/14/99		Lead, dissolved	ND	0.002	AGC
W-3s	1/14/99		Lead, total	0.0026	0.002	AGC
W-3s	5/28/99		Lead, dissolved	ND	0.002	AGC
W-3s	5/28/99		Lead, total	ND	0.002	AGC
W-3s	7/30/99		Lead, dissolved	ND	0.002	AGC
W-3s	7/30/99		Lead, total	0.008	0.002	AGC
W-3s	9/30/99		Lead, dissolved	ND	0.002	AGC
W-3s	12/3/99		Lead, dissolved	ND	0.002	AGC
W-3s	12/3/99		Lead, total	0.011	0.002	AGC

DL = Detection Limit  
D = Duplicate Sample

Note: MW-3-27 assumed as W-3s; MW-3-49  
as W-3i and MW-3-68.3 as W-3d.

**Source Key =**

HT - Historic Tables maintained by Environ  
95E - Environ, Feb 95 - Aug 95  
98E - Environ Report  
AGC - 1999 Sampling  
MB - McKenna Bates Database

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
W-4 Cluster, Gould Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-4i	8/27/86		Lead, dissolved	0.0300	0.010	HT
W-4i	8/27/86		Lead, dissolved	0.03		HT
W-4i	12/11/86		Lead, total	0.0200	0.010	HT/98E
W-4i	12/11/86		Lead, dissolved	ND	0.010	HT/98E
W-4i	12/11/86		Lead, total	0.02		HT/98E
W-4i	12/11/86	D	Lead, total	0.02		HT/98E
W-4i	12/11/86		Lead, dissolved	ND	0.005	HT/98E
W-4s	12/11/86		Lead, total	0.0900	0.010	HT
W-4s	12/11/86		Lead, dissolved	ND	0.010	HT
W-4i	2/21/87		Lead, total	0.0200	0.010	HT/98E
W-4i	2/21/87	D	Lead, total	0.0300	0.010	HT/98E
W-4i	2/21/87		Lead, dissolved	0.0100	0.010	HT/98E
W-4i	2/21/87	D	Lead, dissolved	0.0100	0.010	HT/98E
W-4i	2/21/87		Lead, dissolved	0.01		HT/98E
W-4i	2/21/87		Lead, dissolved	0.01		HT/98E
W-4i	2/21/87		Lead, total	0.03		HT/98E
W-4i	2/21/87		Lead, total	0.02		HT/98E
W-4i	2/21/87		Lead, total	0.02		HT
W-4i	2/21/87		Lead, total	0.02		HT
W-4s	2/21/87		Lead, total	0.0300	0.010	HT
W-4s	2/21/87		Lead, dissolved	ND	0.010	HT
W-4s	8/5/93		Lead, total	ND	0.025	HT/98E
W-4s	8/5/93		Lead, dissolved	ND	0.025	HT/98E
W-4s	9/23/93		Lead, total	ND	0.025	HT/98E
W-4s	9/23/93	D	Lead, total	ND	0.025	HT/98E
W-4s	9/23/93		Lead, dissolved	ND	0.025	HT/98E
W-4s	9/23/93	D	Lead, dissolved	ND	0.025	HT/98E
W-4s	10/25/93		Lead, total	ND	0.025	HT/98E
W-4s	10/25/93		Lead, dissolved	ND	0.025	HT/98E
W-4s	11/26/93		Lead, total	ND	0.025	HT/98E
W-4s	11/26/93		Lead, dissolved	ND	0.025	HT/98E
W-4s	12/15/93		Lead, total	ND	0.025	HT/98E
W-4s	12/15/93	D	Lead, total	ND	0.025	HT/98E
W-4s	12/15/93		Lead, dissolved	ND	0.025	HT/98E
W-4s	12/15/93	D	Lead, dissolved	ND	0.025	HT/98E
W-4s	1/28/94		Lead, total	ND	0.025	HT/98E
W-4s	1/28/94		Lead, dissolved	ND	0.025	HT/98E
W-4s	2/17/94		Lead, total	ND	0.025	HT/98E
W-4s	2/17/94		Lead, dissolved	ND	0.025	HT/98E
W-4s	5/26/94		Lead, total	ND	0.025	HT/98E
W-4s	5/26/94		Lead, dissolved	ND	0.025	HT/98E
W-4s	6/28/94		Lead, total	ND	0.025	HT/98E
W-4s	6/28/94	D	Lead, total	ND	0.025	HT/98E
W-4s	6/28/94		Lead, dissolved	ND	0.025	HT/98E
W-4s	6/28/94	D	Lead, dissolved	ND	0.025	HT/98E
W-4s	7/11/94		Lead, total	ND	0.025	HT/98E
W-4s	7/11/94	D	Lead, total	ND	0.025	HT/98E
W-4s	7/11/94		Lead, dissolved	ND	0.025	HT/98E
W-4s	7/11/94	D	Lead, dissolved	ND	0.025	HT/98E
W-4s	8/31/94		Lead, total	ND	0.025	HT/98E
W-4s	8/31/94		Lead, dissolved	ND	0.025	HT/98E

**Source Key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
W-4 Cluster, Gould Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-4s	9/29/94		Lead, total	ND	0.025	HT/98E
W-4s	9/29/94		Lead, dissolved	ND	0.025	HT/98E
W-4s	10/31/94		Lead, total	ND	0.025	HT/98E
W-4s	10/31/94		Lead, dissolved	ND	0.025	HT/98E
W-4s	11/21/94		Lead, total	ND	0.025	HT/98E
W-4s	11/21/94	D	Lead, total	ND	0.025	HT/98E
W-4s	11/21/94		Lead, dissolved	ND	0.025	HT/98E
W-4s	11/21/94	D	Lead, dissolved	ND	0.025	HT/98E
W-4s	12/21/94		Lead, total	0.0350	0.025	HT/98E
W-4s	12/21/94		Lead, dissolved	ND	0.025	HT/98E
W-4s	3/1/95		Lead, total	ND	0.025	HT/98E
W-4s	3/1/95		Lead, dissolved	ND	0.025	HT/98E
W-4s	3/31/95		Lead, total	0.0058		
W-4s	3/31/95		Lead, dissolved	ND	0.0025	
W-4i	3/31/95		Lead, dissolved	0.026		
W-4i	3/31/95		Lead, total	ND	0.0025	
W-4d	3/31/95		Lead, total	0.0068		
W-4d	3/31/95		Lead, dissolved	ND	0.0025	
W-4s	3/31/95		Lead, total	ND	0.025	HT/98E
W-4s	3/31/95		Lead, dissolved	ND	0.025	HT/98E
W-4s	5/1/95		Lead, dissolved	ND	0.0125	HT/98E
W-4s	5/1/95		Lead, total	ND	0.0125	HT/98E
W-4s	5/1/95		Lead, total	ND	0.025	HT
W-4s	5/1/95		Lead, dissolved	ND	0.025	HT
W-4i	5/4/95		Lead, total	0.0054	0.025	98E
W-4i	5/4/95		Lead, dissolved	ND	0.001	98E
W-4s	5/4/95		Lead, total	0.0040	0.025	HT/98E
W-4s	5/4/95		Lead, dissolved	ND	0.001	HT/98E
W-4i	5/5/95		Lead, total	0.0054		HT
W-4i	5/5/95		Lead, dissolved	ND	0.0005	HT
W-4s	5/24/95		Lead, total	ND	0.025	HT/98E
W-4s	5/24/95		Lead, dissolved	ND	0.025	HT/98E
W-4s	6/23/95		Lead, total	ND	0.025	HT/98E
W-4s	6/23/95		Lead, dissolved	ND	0.025	HT/98E
W-4i	7/31/95	J	Lead, total	ND	0.0100	HT/98E
W-4i	7/31/95	J	Lead, dissolved	ND	0.01	HT/98E
W-4i	7/31/95		Lead, dissolved	ND	0.005	98E
W-4i	7/31/95	D	Lead, dissolved	ND	0.005	98E
W-4i	7/31/95		Lead, total	ND	0.005	98E
W-4s	7/31/95		Lead, total	ND	0.0010	HT
W-4s	7/31/95		Lead, dissolved	ND	0.001	HT
W-4s	8/31/95		Lead, dissolved	ND	0.0125	HT
W-4s	8/31/95		Lead, total	ND	0.0125	HT
W-4s	8/31/95		Lead, total	ND	0.025	98E
W-4s	8/31/95		Lead, dissolved	ND	0.025	98E
W-4s	9/29/95		Lead, total	ND	0.025	HT/98E
W-4s	9/29/95		Lead, dissolved	ND	0.025	HT/98E
W-4s	10/26/95		Lead, total	ND	0.025	HT/98E
W-4s	10/26/95		Lead, dissolved	ND	0.025	HT/98E
W-4s	11/29/95		Lead, total	ND	0.025	HT/98E
W-4s	11/29/95		Lead, dissolved	ND	0.025	HT/98E

**Source Key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database



Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
W-4 Cluster, Gould Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-4s	12/18/95		Lead, total	ND	0.025	HT/98E
W-4s	12/18/95		Lead, dissolved	ND	0.025	HT/98E
W-4s	1/23/96		Lead, total	ND	0.025	HT/98E
W-4s	1/23/96		Lead, dissolved	ND	0.025	HT/98E
W-4s	2/26/96		Lead, total	ND	0.002	HT/98E
W-4s	2/26/96		Lead, dissolved	ND	0.002	HT/98E
W-4s	3/20/96		Lead, total	ND	0.002	HT/98E
W-4s	3/20/96		Lead, dissolved	ND	0.002	HT/98E
W-4s	4/29/96		Lead, total	ND	0.002	HT/98E
W-4s	4/29/96		Lead, dissolved	ND	0.002	HT/98E
W-4s	5/14/96		Lead, total	ND	0.002	HT/98E
W-4s	5/14/96		Lead, dissolved	ND	0.002	HT/98E
W-4s	6/20/96		Lead, total	ND	0.002	HT/98E
W-4s	6/20/96		Lead, dissolved	ND	0.002	HT/98E
W-4s	7/23/96		Lead, total	0.0021	0.002	HT/98E
W-4s	7/23/96		Lead, dissolved	0.0020	0.002	HT/98E
W-4s	8/22/96		Lead, total	ND	0.002	HT/98E
W-4s	8/22/96		Lead, dissolved	ND	0.002	HT/98E
W-4s	9/12/96		Lead, total	0.0025	0.002	HT/98E
W-4s	9/12/96		Lead, dissolved	ND	0.002	HT/98E
W-4s	10/25/96		Lead, total	ND	0.002	HT/98E
W-4s	10/25/96		Lead, dissolved	ND	0.002	HT/98E
W-4s	11/25/96		Lead, total	ND	0.002	HT/98E
W-4s	11/25/96		Lead, dissolved	ND	0.002	HT/98E
W-4i	12/12/96		Lead, total	0.0052	0.002	HT/98E
W-4s	12/12/96		Lead, total	0.0050	0.002	HT/98E
W-4s	12/12/96		Lead, dissolved	ND	0.002	HT/98E
W-4s	1/23/97		Lead, total	0.0022	0.002	98E
W-4s	1/23/97		Lead, dissolved	ND	0.002	98E
W-4s	2/25/97		Lead, total	ND	0.002	98E
W-4s	2/25/97		Lead, dissolved	ND	0.002	98E
W-4s	3/29/97		Lead, total	0.0036	0.002	98E
W-4s	3/29/97	D	Lead, total	0.0024	0.002	98E
W-4s	3/29/97		Lead, dissolved	ND	0.002	98E
W-4s	3/29/97	D	Lead, dissolved	ND	0.002	98E
W-4s	4/25/97		Lead, total	ND	0.002	98E
W-4s	4/25/97		Lead, dissolved	ND	0.002	98E
W-4s	5/30/97		Lead, total	ND	0.002	98E
W-4s	5/30/97		Lead, dissolved	ND	0.002	98E
W-4s	6/25/97		Lead, total	ND	0.002	98E
W-4s	6/25/97		Lead, dissolved	ND	0.002	98E
W-4s	7/29/97		Lead, total	ND	0.002	98E
W-4s	7/29/97		Lead, dissolved	ND	0.002	98E
W-4s	8/14/97		Lead, total	0.0020	0.002	98E
W-4s	8/14/97		Lead, dissolved	ND	0.002	98E
W-4s	9/19/97		Lead, total	ND	0.002	98E
W-4s	9/19/97		Lead, dissolved	ND	0.002	98E
W-4s	10/14/97		Lead, total	0.0014	0.002	98E
W-4s	10/14/97		Lead, dissolved	ND	0.001	98E
W-4s	11/25/97		Lead, total	0.0031	0.002	98E
W-4s	11/25/97		Lead, dissolved	0.0013	0.002	98E

**Source Key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bales Database

PB-Summanes.xls W-4

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
W-4 Cluster, Gould Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-4s	12/11/97		Lead, total	0.0022	0.002	98E
W-4s	12/11/97		Lead, dissolved	ND	0.002	98E
W-4s	1/21/98		Lead, total	ND	0.002	98E
W-4s	1/21/98		Lead, dissolved	ND	0.002	98E
W-4s	8/27/98		Lead, total	0.0046	0.002	98E
W-4s	8/27/98		Lead, dissolved	ND	0.002	98E
W-4s	10/12/98		Lead, total	0.0038	0.002	98E
W-4s	10/12/98		Lead, dissolved	ND	0.002	98E
W-4s	1/14/99		Lead, dissolved	ND	0.002	AGC
W-4s	1/14/99		Lead, total	0.0142	0.002	AGC
W-4s	5/28/99		Lead, dissolved	ND	0.002	AGC
W-4s	5/28/99		Lead, total	ND	0.002	AGC
W-4s	7/30/99		Lead, dissolved	ND	0.002	AGC
W-4s	7/30/99		Lead, total	0.0065	0.002	AGC
W-4s	9/30/99		Lead, dissolved	ND	0.002	AGC
W-4s	9/30/99		Lead, total	0.0029	0.002	AGC
W-4s	12/3/99		Lead, dissolved	ND	0.002	AGC
W-4s	12/3/99		Lead, total	0.0026	0.002	AGC

DL = Detection Limit

D = Duplicate Sample

J = Concentration approximate

Note: MW-4-27 assumed as W-4s; MW-4-47 as  
as W-4i; and MW-4-63.3 as W-4d.

**Source Key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
W-12 Cluster, ESCO Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-12-d	1/21/87		Lead, total	0.04	0.005	HT
W-12-d	1/21/87		Lead, dissolved	ND	0.005	HT
W-12-d	1/21/87		Lead, total	ND	0.005	HT
W-12-i	1/21/87		Lead, dissolved	ND	0.005	HT
W-12-i	1/21/87		Lead, total	ND	0.005	HT
W-12-i	1/21/87		Lead, total	ND	0.005	HT
W-12-d	2/23/87		Lead, total	0.06		HT
W-12-d	2/23/87	D	Lead, total	0.03		HT
W-12-d	2/23/87		Lead, dissolved	ND	0.005	HT
W-12-d	2/23/87	D	Lead, dissolved	ND	0.005	HT
W-12-d	2/23/87		Lead, total	ND	0.005	HT
W-12-d	2/23/87		Lead, total	ND	0.005	HT
W-12-i	2/23/87		Lead, total	0.21		HT
W-12-i	2/23/87	D	Lead, total	0.2		HT
W-12-i	2/23/87		Lead, dissolved	ND	0.005	HT
W-12d	10/19/90		Lead, dissolved	ND	0.003	HT
W-12i	10/19/90		Lead, dissolved	ND	0.003	HT
W-12s	10/19/90		Lead, dissolved	ND	0.003	HT
W-12-d	4/4/95		Lead, dissolved	ND	0.0025	MB
W-12-d	4/4/95		Lead, total	ND	0.0025	MB
W-12-i	4/4/95		Lead, total	0.027		MB
W-12-i	4/4/95		Lead, dissolved	ND	0.0025	MB
W-12-d	5/8/95		Lead, dissolved	ND	0.0005	HT
W-12-d	5/8/95		Lead, total	ND	0.0005	HT
W-12-i	5/8/95		Lead, total	0.0078		HT
W-12-i	5/8/95		Lead, dissolved	ND	0.0005	HT
W-12-s	5/8/95		Lead, dissolved	ND	0.0005	HT
W-12-s	5/8/95		Lead, total	ND	0.0005	HT
W-12-d	8/3/95		Lead, dissolved	0.0014		HT
W-12-d	8/3/95		Lead, dissolved	ND	0.0005	HT
W-12-d	8/3/95	D	Lead, dissolved	ND	0.0005	HT
W-12-d	8/3/95		Lead, total	ND	0.0005	HT
W-12-d	8/3/95	D	Lead, total	ND	0.0005	HT
W-12-d	8/3/95		Lead, total	ND	0.0005	HT
W-12-s	8/3/95		Lead, dissolved	0.0017		HT
W-12-s	8/3/95		Lead, total	ND	0.0005	HT
W-12-i	8/10/95		Lead, dissolved	ND	0.0005	HT
W-12-i	8/10/95	D	Lead, dissolved	ND	0.0005	HT
W-12-i	8/10/95		Lead, total	ND	0.0005	HT
W-12-i	8/10/95	D	Lead, total	ND	0.0005	HT
W-12-s	5/28/99		Lead, dissolved	ND	0.002	AGC
W-12-s	5/28/99		Lead, total	ND	0.002	AGC
W-12-s	7/30/99		Lead, dissolved	ND	0.002	AGC
W-12-s	7/30/99		Lead, total	ND	0.002	AGC
W-12-s	9/30/99		Lead, dissolved	ND	0.002	AGC
W-12-s	9/30/99		Lead, total	ND	0.002	AGC
W-12-s	12/3/99		Lead, dissolved	ND	0.002	AGC
W-12-s	12/3/99		Lead, total	ND	0.002	AGC

DL = Detection Limit

D = Duplicate Sample

**Source Key =**

HT - historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
W-15 Cluster, Metro Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-15-d	9/17/86		Lead, dissolved	0.01		HT
W-15-i	9/17/86		Lead, dissolved	0.02		HT
W-15-i	9/17/86		Lead, dissolved	0.02		HT
W-15-s	9/17/86		Lead, dissolved	0.02		HT
W-15-d	12/14/86		Lead, total	0.01		HT
W-15-d	12/14/86		Lead, dissolved	ND	0.005	HT
W-15-d	12/14/86		Lead, total	ND	0.005	HT
W-15-i	12/14/86		Lead, dissolved	0.02		HT
W-15-i	12/14/86		Lead, total	0.02		HT
W-15-i	12/14/86		Lead, total	ND	0.005	HT
W-15-s	12/17/86		Lead, total	0.01		HT
W-15-s	12/17/86		Lead, total	0.01		HT
W-15-s	12/17/86		Lead, dissolved	ND	0.005	HT
W-15-d	2/19/87		Lead, total	0.01		HT
W-15-d	2/19/87		Lead, dissolved	ND	0.005	HT
W-15-d	2/19/87		Lead, total	ND	0.005	HT
W-15-i	2/19/87		Lead, dissolved	0.01		HT
W-15-i	2/19/87		Lead, total	0.02		HT
W-15-i	2/19/87	D	Lead, total	0.02		HT
W-15-s	2/19/87		Lead, total	0.27		HT
W-15-s	2/19/87	D	Lead, total	0.23		HT
W-15-s	2/19/87		Lead, total	0.26		HT
W-15-s	2/19/87	D	Lead, total	0.2		HT
W-15-s	2/19/87		Lead, dissolved	ND	0.005	HT
W-15-s	2/19/87		Lead, dissolved	ND	0.005	HT
W-15d	3/2/90		Lead, total	0.0040	0.0010	HT
W-15d	3/2/90		Lead, dissolved	ND	0.0010	HT
W-15i	3/2/90		Lead, total	ND	0.0010	HT
W-15i	3/2/90		Lead, dissolved	ND	0.0010	HT
W-15s	3/2/90		Lead, total	0.0140	0.0010	HT
W-15s	3/2/90		Lead, dissolved	ND	0.0010	HT
W-15d	9/2/91		Lead, total	ND	0.0300	HT
W-15d	9/2/91		Lead, dissolved	ND	0.0300	HT
W-15i	9/2/91		Lead, total	ND	0.3000	HT
W-15i	9/2/91		Lead, dissolved	ND	0.3000	HT
W-15s	9/2/91		Lead, total	ND	0.0300	HT
W-15s	9/2/91		Lead, dissolved	ND	0.0300	HT
W-15d	10/24/90	J	Lead, total	ND	0.0030	HT
W-15d	10/24/90	J	Lead, dissolved	ND	0.0030	HT
W-15i	10/24/90	J	Lead, total	ND	0.0030	HT
W-15i	10/24/90	J	Lead, dissolved	ND	0.0030	HT
W-15s	10/24/90	J	Lead, total	ND	0.0030	HT
W-15s	10/24/90	J	Lead, dissolved	ND	0.0030	HT
W-15-d	4/27/95		Lead, total	0.002		HT
W-15-d	4/27/95		Lead, dissolved	ND	0.0005	HT
W-15-i	4/27/95	D	Lead, dissolved	ND	0.005	HT
W-15-i	4/27/95		Lead, total	ND	0.0075	HT
W-15-s	4/27/95	D	Lead, total	0.0012		HT

Source Key =

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
W-15 Cluster, Metro Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-15-s	4/27/95		Lead, dissolved	ND	0.0005	HT
W-15-d	8/4/95		Lead, dissolved	0.0149		HT
W-15-d	8/4/95		Lead, dissolved	0.0149		HT
W-15-d	8/4/95		Lead, total	ND	0.0005	HT
W-15-d	8/4/95		Lead, total	ND	0.0005	HT
W-15-i	8/4/95		Lead, total	0.01		HT
W-15-i	8/4/95	D	Lead, total	0.01		HT
W-15-i	8/4/95		Lead, dissolved	ND	0.005	HT
W-15-i	8/4/95	D	Lead, dissolved	ND	0.005	HT
W-15-s	8/4/95		Lead, dissolved	ND	0.0005	HT
W-15-s	8/4/95		Lead, dissolved	ND	0.0005	HT
W-15-s	8/4/95		Lead, dissolved	ND	0.0005	HT
W-15-s	8/4/95		Lead, dissolved	ND	0.0005	HT
W-15-s	8/4/95		Lead, total	ND	0.0005	HT
W-15-s	8/4/95		Lead, total	ND	0.0005	HT
W-15-s	8/4/95		Lead, total	ND	0.0005	HT
W-15-s	8/4/95		Lead, total	ND	0.0005	HT

DL = Detection Limit

D = Duplicate Sample

J = Concentration Approximate

**Source Key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

PB - Summaries vs W-15

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
W-16 Cluster, Schnitzer Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
W-16-d	12/30/86		Lead, dissolved	ND	0.005	HT
W-16-d	12/30/86		Lead, total	ND	0.005	HT
W-16-d	12/30/86	D	Lead, total	ND	0.005	HT
W-16-i	12/30/86		Lead, dissolved	0.02		HT
W-16-i	12/30/86		Lead, total	0.01		HT
W-16-i	12/30/86	D	Lead, total	ND	0.005	HT
W-16-s	12/30/86		Lead, total	0.01		HT
W-16-s	12/30/86		Lead, dissolved	ND	0.005	HT
W-16-d	2/18/87		Lead, dissolved	ND	0.005	HT
W-16-d	2/18/87		Lead, total	ND	0.005	HT
W-16-d	2/18/87		Lead, total	ND	0.005	HT
W-16-i	2/18/87		Lead, total	0.01		HT
W-16-i	2/18/87		Lead, dissolved	ND	0.005	HT
W-16-i	2/18/87		Lead, total	ND	0.005	HT
W-16-s	2/18/87		Lead, dissolved	0.02		HT
W-16-s	2/18/87		Lead, total	3.2		HT
W-16-s	2/18/87	D	Lead, total	3		HT
W-16-d	4/5/95		Lead, dissolved	ND	0.0025	HT
W-16-d	4/5/95		Lead, total	ND	0.0025	HT
W-16-i	4/5/95		Lead, dissolved	ND	0.0025	HT
W-16-i	4/5/95		Lead, total	ND	0.0025	HT
W-16-s	4/5/95		Lead, total	0.054		HT
W-16-s	4/5/95		Lead, dissolved	ND	0.0025	HT
W-16-d	4/28/95		Lead, dissolved	ND	0.0005	HT
W-16-d	4/28/95		Lead, total	ND	0.0005	HT
W-16-i	4/28/95		Lead, dissolved	ND	0.0005	HT
W-16-i	4/28/95		Lead, total	ND	0.0005	HT
W-16-s	4/28/95		Lead, dissolved	0.0027		HT
W-16-s	4/28/95	D	Lead, dissolved	0.0022		HT
W-16-s	4/28/95		Lead, total	0.0035		HT
W-16-s	4/28/95	D	Lead, total	0.0034		HT
W-16-d	8/3/95		Lead, dissolved	0.0015		HT
W-16-d	8/3/95	D	Lead, dissolved	0.0015		HT
W-16-d	8/3/95		Lead, total	ND	0.0005	HT
W-16-d	8/3/95	D	Lead, total	ND	0.0005	HT
W-16-i	8/3/95		Lead, dissolved	ND	0.0005	HT
W-16-i	8/3/95	D	Lead, dissolved	ND	0.0005	HT
W-16-i	8/3/95		Lead, total	ND	0.0005	HT
W-16-i	8/3/95	D	Lead, total	ND	0.0005	HT
W-16-s	8/3/95		Lead, total	0.0027		HT
W-16-s	8/3/95	D	Lead, total	0.0027		HT
W-16-s	8/3/95		Lead, dissolved	ND	0.0005	HT
W-16-s	8/3/95	D	Lead, dissolved	ND	0.0005	HT
W-16-d	12/19/96		Lead, total	ND	0.002	HT
W-16-d	12/19/96		Lead, dissolved	ND	0.005	HT
W-16-i	12/19/96		Lead total	ND	0.002	HT
W-16-i	12/19/96		Lead, dissolved	ND	0.005	HT
W-16-s	12/19/96		Lead, total	0.0052	0.005	HT
W-16-s	12/19/96	D	Lead, total	0.0059		HT
W-16-s	12/19/96		Lead, dissolved	ND	0.005	HT

DL = Detection Limit

D = Duplicate Sample

**Source Key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
AL-1 Cluster, Gould Property

Well#	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
AL-1-15	3/28/95		Lead, total	0.025		MB
AL-1-15	3/28/95		Lead, dissolved	ND	0.0025	MB
AL-1-69.3	3/28/95		Lead, total	0.02		MB
AL-1-69.3	3/28/95		Lead, dissolved	ND	0.0025	MB
AL-1-45	3/29/95		Lead, total	0.022		MB
AL-1-45	3/29/95		Lead, dissolved	ND	0.0025	MB
AL-1-15	5/2/95		Lead, dissolved	ND	0.0005	HT
AL-1-15	5/2/95	D	Lead, dissolved	ND	0.0005	HT
AL-1-15	5/2/95		Lead, total	ND	0.0005	HT
AL-1-15	5/2/95	D	Lead, total	ND	0.0005	HT
AL-1-45	5/2/95		Lead, total	0.012		HT
AL-1-45	5/2/95		Lead, dissolved	ND	0.0005	HT
AL-1-69.3	5/2/95		Lead, total	0.0022		HT
AL-1-69.3	5/2/95		Lead, dissolved	ND	0.0005	HT
AL-1-15	8/2/95		Lead, total	0.0015		HT
AL-1-15	8/2/95	D	Lead, total	0.0036		HT
AL-1-15	8/2/95		Lead, dissolved	ND	0.0005	HT
AL-1-15	8/2/95	D	Lead, dissolved	ND	0.0005	HT
AL-1-45	8/2/95		Lead, total	0.003	0.0005	HT
AL-1-45	8/2/95		Lead, dissolved	ND	0.0005	HT
AL-1-69.3	8/2/95		Lead, total	0.0025	0.0005	HT
AL-1-69.3	8/2/95		Lead, dissolved	ND		HT
AL-1-15	6/1/99		Lead, dissolved	ND	0.0005	HT
AL-1-15	6/1/99		Lead, total	0.002	0.0005	HT
AL-1-45	6/1/99		Lead, dissolved	ND	0.002	HT
AL-1-45	6/1/99		Lead, total	0.0055	0.002	HT
AL-1-69.3	6/1/99		Lead, dissolved	0.002	0.002	HT
AL-1-69.3	6/1/99		Lead, total	0.0083	0.002	HT

DL = Detection Limit

D = Duplicate Sample

**Source key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

PB-Summaries.xls AL-1

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
AL-2 Cluster, Lake Area

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
AL-2-17	3/29/95		Lead, total	0.3		MB
AL-2-17	3/29/95		Lead, dissolved	ND	0.0025	MB
AL-2-46	3/29/95		Lead, total	0.013		MB
AL-2-46	3/29/95		Lead, dissolved	ND	0.0025	MB
AL-2-32.5	3/30/95		Lead, dissolved	ND	0.0025	MB
AL-2-32.5	3/30/95		Lead, total	ND	0.0025	MB
AL-2-17	4/26/95		Lead, dissolved	0.0015		HT
AL-2-17	4/26/95		Lead, total	0.0316		HT
AL-2-32.5	4/26/95		Lead, dissolved	ND	0.0005	HT
AL-2-32.5	4/26/95		Lead, total	ND	0.0005	HT
AL-2-46	4/26/95		Lead, dissolved	ND	0.0005	HT
AL-2-46	4/26/95		Lead, total	ND	0.0005	HT
AL-2-17	8/2/95		Lead, dissolved	0.0024		HT
AL-2-17	8/2/95		Lead, total	0.0068		HT
AL-2-32.5	8/2/95		Lead, dissolved	0.0021		HT
AL-2-32.5	8/2/95		Lead, total	ND	0.0005	HT
AL-2-46	8/2/95		Lead, dissolved	ND	0.0005	HT
AL-2-46	8/2/95		Lead, total	ND	0.0005	HT

DL = Detection Limit

D = Duplicate Sample

**Source key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

PB-Summanes.xls AL-2



Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
AL-4 and BST-3

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
AL-4-46.8	3/24/95		Lead, dissolved	ND	0.0025	MB
AL-4-46.8	3/24/95		Lead, total	ND	0.0025	MB
BST-3-26	12/1/94		Lead, dissolved	0.027		MB
BST-3-38	12/2/94		Lead, dissolved	ND	0.0025	MB

DL = Detection Limit

D = Duplicate Sample

Note: Location unknown

Source key =

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

PB-Summanes.xls AL-4

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
AL-5 Cluster, Lake Area

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
AL-5-19	4/3/95		Lead, total	0.11		MB
AL-5-19	4/3/95		Lead, dissolved	ND	0.0025	MB
AL-5-35	4/3/95		Lead, total	0.057		MB
AL-5-35	4/3/95		Lead, dissolved	ND	0.0025	MB
AL-5-62	4/3/95		Lead, total	0.04		MB
AL-5-62	4/3/95		Lead, dissolved	ND	0.0025	MB
AL-5-19	5/1/95		Lead, dissolved	0.0023		HT
AL-5-19	5/1/95		Lead, total	0.0154		HT
AL-5-35	5/1/95		Lead, total	0.0048		HT
AL-5-35	5/1/95		Lead, dissolved	ND	0.0005	HT
AL-5-62	5/1/95		Lead, total	0.0181		HT
AL-5-62	5/1/95		Lead, dissolved	ND	0.0005	HT
AL-5-19	8/1/95		Lead, total	0.005		HT
AL-5-19	8/1/95		Lead, dissolved	ND	0.0005	HT
AL-5-35	8/1/95		Lead, dissolved	0.0017		HT
AL-5-35	8/1/95		Lead, total	0.0014		HT
AL-5-62	8/1/95		Lead, dissolved	0.0071		HT
AL-5-62	8/1/95		Lead, total	0.0014		HT

DL = Detection Limit

D = Duplicate Sample

**Source key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

PB-Summanes.xls AL-5

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
ASW-4 and ASW-6, Metro Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
ASW-4	5/28/99		Lead, dissolved	ND	0.002	AGC
ASW-4	5/28/99		Lead, total	ND	0.002	AGC
ASW-6	7/30/99		Lead, dissolved	ND	0.002	AGC
ASW-6	7/30/99		Lead, total	0.0027	0.002	AGC
ASW-6	9/30/99		Lead, dissolved	ND	0.002	AGC
ASW-6	9/30/99		Lead, total	ND	0.002	AGC
ASW-6	12/3/99		Lead, dissolved	ND	0.002	AGC
ASW-6	12/3/99		Lead, total	ND	0.002	AGC

DL = Detection Limit

D = Duplicate Sample

Source key =

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

PB-Summanes.xls ASW-6

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
BST-1, Gould Property

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
BST-1-88	3/28/95		Lead, total	0.014		MB
BST-1-88	3/28/95		Lead, dissolved	ND	0.0025	MB
BST-1-88	5/2/95		Lead, dissolved	ND	0.0005	HT
BST-1-88	5/2/95		Lead, total	ND	0.0005	HT
BST-1-88	8/2/95		Lead, dissolved	ND	0.0005	HT
BST-1-88	8/2/95	D	Lead, dissolved	ND	0.0005	HT
BST-1-88	8/2/95		Lead, total	ND	0.0005	HT
BST-1-88	8/2/95	D	Lead, total	ND	0.0005	HT
BST-1-88	6/2/99		Lead, dissolved	ND	0.002	AGC
BST-1-88	6/2/99		Lead, total	0.0038	0.002	AGC

DL = Detection Limit

D = Duplicate Sample

**Source key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

P8-Summaries.xls BST-1

Gould Superfund Site  
Portland, Oregon  
Groundwater Sampling  
BST-2, Lake Area

Well #	Date Sampled	Qualifier	Analyte	Result (mg/L)	DL	Source
BST-2-61	3/30/95		Lead, total	0.011		MB
BST-2-61	3/30/95		Lead, dissolved	ND	0.0025	MB
BST-2-61	4/26/95		Lead, dissolved	ND	0.0005	HT
BST-2-61	4/26/95		Lead, total	ND	0.0005	HT
BST-2-61	8/2/95		Lead, dissolved	ND	0.0005	HT
BST-2-61	8/2/95	D	Lead, dissolved	ND	0.0005	HT
BST-2-61	8/2/95		Lead, total	ND	0.0005	HT
BST-2-61	8/2/95	D	Lead, total	ND	0.0005	HT

DL = Detection Limit

D = Duplicate Sample

**Source key =**

HT - Historic Tables maintained by Environ

95E - Environ, Feb 95 - Aug 95

98E - Environ Report

AGC - 1999 Sampling

MB - McKenna Bates Database

PB-Summanes.xls BST-2