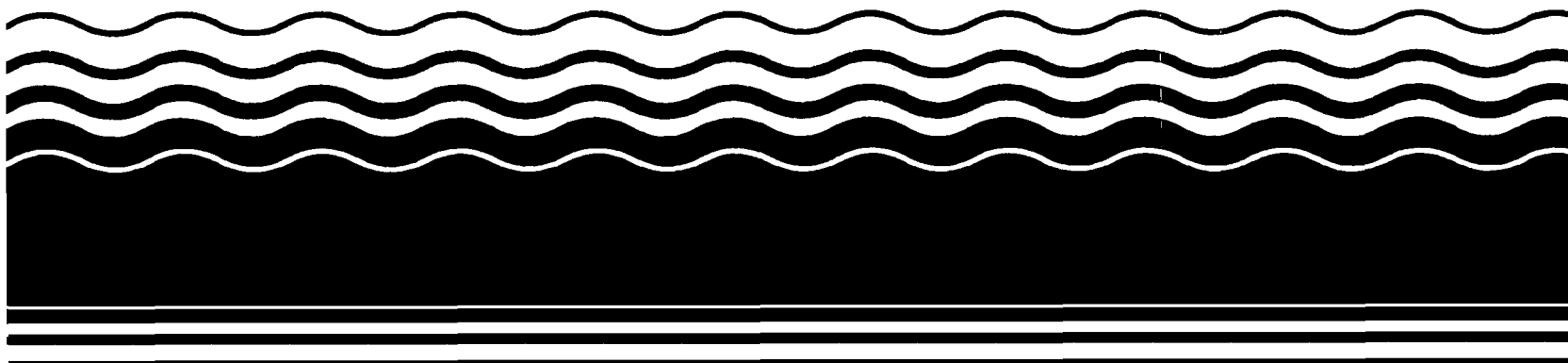


**PB97-964612
EPA/541/R-97/200
April 1998**

**EPA Superfund
Record of Decision:**

**Boomsnub/Airco
Site-Wide Ground Water OU
Vancouver, WA
9/29/1997**



RECORD OF DECISION
FOR
INTERIM REMEDIAL ACTION
BOOMSNUB/AIRCO SUPERFUND SITE
VANCOUVER, WASHINGTON

SEPTEMBER 1997

**RECORD OF DECISION
FOR
INTERIM REMEDIAL ACTION
SITE-WIDE GROUND-WATER OPERABLE UNIT**

**Boomsnub/Airco Superfund Site
Vancouver, Washington**

THE DECLARATION

Site Name and Location

Boomsnub/Airco Superfund Site
Site-Wide Ground-Water Operable Unit
Vancouver, Washington

Statement of Basis and Purpose

This decision document presents the selected interim remedial action for the Boomsnub/Airco Superfund Site (the Site), located north of Vancouver in Hazel Dell, Washington. This remedy was developed in accordance with the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 USC §9601 *et seq.* (CERCLA), as amended by Superfund Amendments and Reauthorization Act of 1986 (SARA), and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR Part 300. This decision is based on the Administrative Record for this Site.

The State of Washington concurs with the selected remedy.

Assessment of the Site

Actual or threatened releases of hazardous substances from the Site, if not addressed by implementing the response actions selected in this Record of Decision (ROD), may present an imminent and substantial endangerment to public health, welfare, or the environment.

Description of the Selected Remedy

This interim action ROD addresses only the Site-Wide Ground-Water Operable Unit (OU) and the ground-water contamination at the Site. A final ROD is planned for the Site to fully address the threats posed by conditions at this OU.

The selected remedy is to continue operation and maintenance of the existing ground-water

for Clark County. The remedy includes the following actions:

- operation and maintenance (O & M) of the existing extraction/treatment system;
- installation of additional monitoring wells near the leading edge of the plume to determine the need for more extraction wells, and connection of additional wells to the extraction network, if necessary;
- upgrading some extraction wells and vaults as necessary to prevent infiltration of water during storm events, and
- acquisition or construction of office and storage space for the extraction/treatment and telemetry systems, new and used resin, as well as for tools, parts and equipment needed for O & M of the system.

Statutory Determination

This interim action is protective of human health and the environment, attains federal and state requirements that are legally applicable or relevant and appropriate for this interim action, and is cost effective. Although this interim action is not intended to address fully the statutory mandate for permanence and treatment to the maximum extent practicable, it does include treatment and thus is in furtherance of that statutory mandate. Because this action does not constitute the final remedy for the Site-Wide Ground-Water OU, the statutory preference for remedies that employ treatment to reduce toxicity, mobility, or volume of waste as a principal element will be addressed fully by the final response action.

Since this interim remedy will result in hazardous substances above health-based levels remaining on-site, a review will be conducted within five years after commencement of remedial action to ensure that the remedy continues to provide adequate protection of human health and the environment. In addition, because this is an interim action ROD, review of this Site and this remedy will be ongoing as EPA continues to develop final remedial alternatives for this OU.

Chuck Clarke
Chuck Clarke

9/29/97
Date

Regional Administrator
United States Environmental Protection Agency
Region 10

RECORD OF DECISION
FOR
INTERIM REMEDIAL ACTION
SITE-WIDE GROUND-WATER OPERABLE UNIT
BOOMSNUB/AIRCO SUPERFUND SITE
VANCOUVER, WASHINGTON

DECISION SUMMARY

SEPTEMBER 1997

**RECORD OF DECISION
BOOMSNUB/AIRCO SUPERFUND SITE
VANCOUVER, WASHINGTON**

DECISION SUMMARY

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1.0 Site Name, Location, and Description	1
1.1 Site Name and Location	1
1.2 Site Description	1
2.0 Site History and Enforcement Activities	1
2.1 Boomsnub Corporation	1
2.1.1 State Enforcement Actions	4
2.1.2 United States Criminal Proceedings	4
2.1.3 EPA Enforcement Actions	5
2.1.4 EPA Removal Actions	5
2.2 BOC Gases	6
2.2.1 State Enforcement Actions	6
2.2.2 EPA Enforcement Actions	6
3.0 Highlights of Community Participation	6
3.1 Ecology Relations Activities	6
3.2 EPA Community Relation Activities	7
4.0 Scope and Role of Operable Unit	8
5.0 Summary of Site Characteristics	9
5.1 Geology/Hydrogeology	9
5.2 Nature and Extent of Contamination	9
5.2.1 Boomsnub Facility	9
5.2.2 BOC Gases Facility	10
5.3 Current Extraction/Treatment System and Site Operations	10
6.0 Risk Assessment	18

7.0	Goals and Objectives of Remedial Action	18
8.0	Description of Remedial Action Alternatives	19
8.1	Alternative 1: No Action	19
8.2	Alternative 2: Operate Existing System and Improve the Extraction/Treatment System and Plant Facilities	19
9.0	Comparative Analysis of Alternatives	20
9.1	Overall Protection of Human Health and the Environment	20
9.2	Compliance with ARARs	20
9.3	Long-Term Effectiveness and Permanence	20
9.4	Reduction in Toxicity, Mobility, or Volume Through Treatment	22
9.5	Short-Term Effectiveness	22
9.6	Implementability	22
9.7	Cost	22
9.8	State Acceptance	23
9.9	Community Acceptance	23
10.0	The Selected Remedy	23
11.0	Statutory Determinations	24
11.1	Protection of Human Health and the Environment	24
11.2	Compliance with Applicable or Relevant and Appropriate Requirements	25
11.3	Utilization of Permanent Solutions and Alternative Treatment Technologies or Resource Recovery Technologies to the Maximum Extent Practical	27
11.4	Cost Effectiveness	27
11.5	Preference for Treatment as a Principal Element	27
12.0	Documentation of Significant Changes	27

List of Figures

1	Site Location Map	2
2	Operable Units	3
3	Site-Wide Groundwater Chromium Concentrations, May 1995	12
4	Site-Wide Groundwater TCE Concentrations, May 1995	13
5	Site-Wide Groundwater Chromium Concentrations, May 1997	14
6	Site-Wide Groundwater TCE Concentrations, May 1997	15
7	Chromium Concentrations in Site Wells	16
6	TCE Concentrations in Site Wells	17

List of Tables

1	Boomsnub/BOC Gases Superfund Site Operable Unit Description	8
2	Evaluation Criteria	21

Appendices

A	Responsiveness Summary
B	Administrative Record Index

ABBREVIATIONS AND ACRONYMS

ARAR	applicāble or relevant and appropriate requirement
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CPU	Clark Public Utilities
CWA	Clean Water Act
EPA	U.S. Environmental Protection Agency
gpm	gallons per minute
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
OU	Operable Unit
ppb	parts per billion
ppm	parts per million
RCRA	Resource Conservation and Recovery Act
RCW	Revised Code of Washington
RAO	remedial action objective
RI/FS	Remedial investigation/feasibility study
ROD	Record of Decision
SARA	Superfund Amendments and Reauthorization Act
WAC	Washington Administrative Code

**RECORD OF DECISION
BOOMSNUB/AIRCO SUPERFUND SITE
VANCOUVER, WASHINGTON**

DECISION SUMMARY

1.0 SITE NAME, LOCATION, AND DESCRIPTION

1.1 Site Name and Location

The Boomsnub/Airco Site (the Site) is located north of Vancouver in Hazel Dell, Washington (see Figure 1). The Site is approximately two miles east of Interstate 5 and one mile west of Interstate 205, near NE 78th Street and NE 47th Avenue. The Site is bordered by a mixture of residential, commercial, and light industrial properties.

1.2 Site Description

The Boomsnub property is approximately 0.75 acres and is located at 7608 NE 47th Avenue (see Figure 2). The property is vacant except for a machine shop building unrelated to Site activities and the ground-water treatment system. The Boomsnub Corporation and its predecessor company, Pioneer Plating, conducted chrome plating operations at this location from 1967 until 1994, when Boomsnub moved its business to its current location at 3611 NE 68th Street.

The BOC Gases facility (formerly known as Airco) is an 11-acre, active gas production facility. It is located across the street (47th) from the Boomsnub property at 4758 NE 78th Street. The company manufactures and distributes compressed and liquefied gas products including nitrogen, oxygen, and argon. The company also stores and distributes other gases such as hydrogen, acetylene, and helium. The BOC Gases plant has been in operation since 1964.

The Site also encompasses a plume of ground-water contamination that emanates from beneath the two facilities and extends in a west/northwest direction to approximately NE 30th Avenue.

There are no known flood plains, endangered species, historical landmarks, or structures with historical significance identified at the Site. Designated wetlands have been identified along the south side of NE 78th Street just west of St. Johns Road, in the vicinity of extraction well MW-19D.

2.0 SITE HISTORY AND ENFORCEMENT ACTIVITIES

2.1 Boomsnub Corporation

The Boomsnub Corporation has been in business since 1952. Pacific Northwest Plating, formerly known as Pioneer Plating Company, is a division of the Boomsnub Corporation. Pacific Northwest Plating operated an industrial hard chrome facility on the Boomsnub property

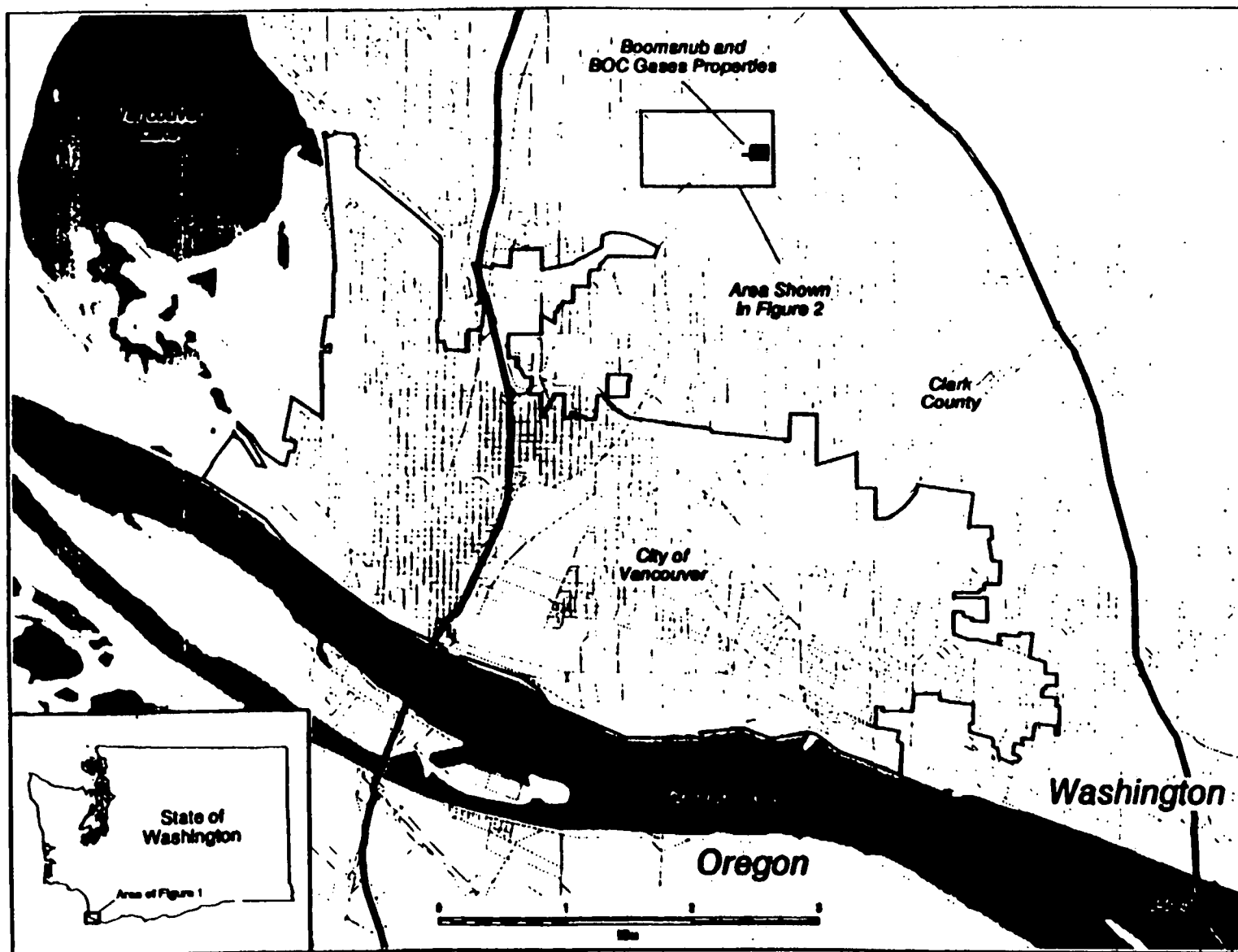


Figure 1
Site Location
Boomsnub/Airco Superfund Site

from 1978 to 1994. Prior to 1978, the Pioneer Plating Company operated on the Site between 1967 and 1978. The electroplating process used by Boomsnub involved the use of a chromic acid solution containing hexavalent chromium.

2.1.1 State Enforcement Actions

In 1982, the Washington State Department of Ecology (Ecology) issued an Administrative Order to the Boomsnub Corporation. The Order required the corporation to line the vault underneath the plating tanks with an acid-proof coating to eliminate leaks and protect the concrete from corrosion. In response, the corporation installed a steel plate liner in the vault beneath the tanks.

In 1987, Ecology required the Boomsnub Corporation to install monitoring wells to detect the presence of chromium in the ground water that might have resulted from leaks, spills, and other practices over the years. Sampling results indicated levels of chromium in the soils and ground water at the facility in the thousands of parts per billion (ppb) range. In March 1990, Boomsnub reported to Ecology a significant (four orders of magnitude) increase in hexavalent chromium levels in one monitoring well at the Site. The company also stated that a break in its drinking water main released approximately 300,000 gallons of water to soil beneath the facility, which may have contributed to this increase. In May 1990, Ecology issued an enforcement order, pursuant to the Model Toxics Control Act (RCW 70.105D), to the Boomsnub Corporation. The Order required the company to extract and treat contaminated ground water, monitor existing on-site wells, and conduct ground-water studies. Boomsnub installed pumping wells and began the extraction and treatment of ground water.

By August 1990, Boomsnub announced that it did not have the financial resources to meet the requirements of the Ecology order. Ecology assumed financial responsibility for operating the extraction/treatment system, expanding and upgrading the system installed by Boomsnub, and for ground-water monitoring. These activities included upgrading the treatment system from reverse osmosis to ion exchange, and expanding the extraction network and treatment system to handle increased volumes of water. Ecology also constructed a pressure sewer line to the City of Vancouver's sanitary sewer system for the discharge of treated ground water. The Boomsnub Corporation provided some in-kind services, such as the treatment plant operator; however, Ecology paid for the majority of the Site work.

In 1993, Ecology requested that EPA list the Site on the National Priorities List (NPL) since Ecology did not have the financial resources to continue the cleanup at the Site. EPA proposed the Site for inclusion on the NPL on January 18, 1994. The Site was listed on the NPL on April 25, 1995 (60 Fed. Reg. 20330).

2.1.2 United States Criminal Proceedings

EPA conducted initial sampling of the Boomsnub property in conjunction with a criminal search warrant in April 1994. This sampling indicated that extremely high levels of chromium were

present at the facility and in the soil on the property. In 1995, a federal grand jury issued a criminal indictment against the Boomsnub Corporation and three of its principal officers for illegal disposal and storage of hazardous waste. In late 1995, the U. S. Attorney entered into a plea agreement with the Boomsnub Corporation in which the company pleaded guilty to knowingly storing and disposing of hazardous waste without a Resource Conservation and Recovery Act (RCRA) permit, and knowingly violating the Clean Water Act by discharging waste water to the City of Vancouver sanitary sewer system without prior authorization. Two officers of the company pleaded guilty to one count each. The Company was sentenced to five years probation and payment of restitution in the amount of \$150,000, to be paid in equal amounts to EPA and Ecology. One officer of the company was sentenced to five years probation, home confinement, and payment of restitution in the amount of \$60,000, in equal amounts of \$30,000 each to EPA and Ecology. The second officer received one year probation, and a fine of \$1,000. Charges were not pursued against a third officer of the company due to his illness.

The criminal settlement is independent of the action EPA is currently taking against the Boomsnub Corporation and its officers to recover the Superfund money spent to investigate and clean up the chromium contamination at the Site.

2.1.3 EPA Administrative Orders

In May 1994, EPA issued a Unilateral Administrative Order (UAO) to the Boomsnub Corporation and two officers of the company requiring the corporation to cease operations and provide EPA with access to perform response actions. The UAO was temporarily extended for a short period during which the company attempted to abate the continuing release of chromium and to document that there were no continuing releases. This action was undertaken while the company was in the process of moving its operations to a new location.

2.1.4 EPA Removal Activities

In June 1994, EPA's Removal Program took over lead-agency activities at the Site. The Boomsnub Corporation ceased operations at the Site shortly thereafter. They reopened several months later at their current location at 3611 SE 68th Street.

EPA began a removal operation that included the off-site disposal of more than 400 drums of waste, demolition and removal of buildings and plating tanks, and removal and off-site disposal of more than 6,000 tons of chromium-contaminated soil. The removal action also included converting two monitoring wells (at the leading edge of the ground-water contaminant plume) to extraction wells and connecting them to the extraction network, increasing the pumping rate to 100 gallons per minute (gpm), and upgrading the ion exchange system to improve treatment efficiency and to handle the increased extraction rate. EPA's Remedial Program took over operation of the extraction/treatment system in January 1995, but has continued to rely on removal funding to support the ongoing O & M effort.

2.2 BOC Gases Facility

In 1991, during the course of the cleanup at Boomsnub, Ecology discovered volatile organic compounds (VOCs) in the ground water. The VOCs detected included trichloroethene (TCE), perchloroethene (PCE), 1,1,1-trichloroethane (1,1,1-TCA), and trichlorofluoromethane (Freon-11). Based on the concentrations and types of chemicals found in ground water, Ecology suspected BOC Gases as the source of the contamination. In August 1991, Ecology sent a letter to BOC Gases requesting the company to conduct an investigation. In response to this request, BOC Gases voluntarily conducted a two-phase investigation in 1992 that included subsurface soil borings and installation of monitoring wells along the perimeter of the property. Ground-water sampling results showed the presence of a variety of VOCs at various wells on the property.

2.2.1 State Enforcement Actions

In March 1993, BOC and Ecology signed an Agreed Order under MTCA requiring BOC Gases to install additional ground-water monitoring wells, sample ground water, investigate potential sources of the VOC contamination, and sample sediment and water in two on-site dry wells. Results of this investigation showed extremely high levels of TCE and Freon-11 in the sediment of the south dry well.

In December 1993, Ecology issued an Enforcement Order requiring BOC Gases to install several off-site monitoring wells, further investigate potential sources of the VOC contamination on the BOC Gases property, and remove contaminated sediment from the south dry well. The Order also required BOC Gases to assume responsibility for operating the VOC removal portion (air stripper and carbon adsorption) of the extraction/treatment system. BOC complied with these requirements.

2.2.2 EPA Enforcement Actions

EPA and BOC Gases signed an Administrative Order on Consent (AOC) in January 1997 requiring BOC Gases to conduct a site evaluation at its facility. The purpose of the site evaluation is to determine if a source (or sources) of VOC contamination remains in soil at the Site that warrants a removal action. This investigation is ongoing.

3.0 HIGHLIGHTS OF COMMUNITY PARTICIPATION

This section summarizes the community relations activities performed by Ecology and EPA both prior to and after listing of the Site on the NPL.

3.1 Ecology Community Relations Activities

Ecology prepared a community relations plan in 1990. Under this plan, Ecology published

several fact sheets in 1990 through 1994 that summarized project activities and investigation results. These fact sheets were mailed to approximately 250 interested individuals and companies. Ecology also provided the public with opportunities to comment on Orders issued to both Boomisnub and BOC Gases and held periodic meetings with interested citizens and local officials to provide updates on Site activities.

Ecology also awarded a public participation grant to the Clark County Citizens Hazardous Waste Task Force. The Task Force conducted informational meetings on hazardous waste activities in Clark County that included updates on Site activities.

3.2 EPA Community Relations Activities

EPA prepared an initial community relations plan in 1994 for the removal activities. Several fact sheets were distributed and information meetings were held during the removal action to keep interested citizens apprised of site cleanup activities. A press release on the listing of the Site on the National Priorities List was sent to the news media, including the local newspaper, and a mailing list was compiled using the Ecology data base. The Fort Vancouver Regional Library was established as a local information repository where technical documents and reports were housed for public review. EPA created an Administrative Record file for the removal action and placed this file in the local library as well.

Currently, the mailing list consists of approximately 238 interested citizens, companies, public officials and news media. Periodic fact sheets are distributed to keep the public informed of Site activities. When requested, EPA has provided briefings on Site activities for the Clark County Citizens Hazardous Waste Task Force, and other community groups. Technical documents on current Site investigation plans have been placed in the repository and sent to local officials and interested citizens to provide an opportunity for comment on Site activities. The Community Relations Plan was updated in May 1997 to reflect upcoming investigations and other site activities.

In July 1997, the Proposed Plan for the Interim Action on the Ground-Water OU was published and a fact sheet distributed to the mailing list. An Administrative Record file for the proposed Interim Action was placed in the library in July 1997. A thirty-day public comment period began July 30, 1997 and ended August 29, 1997. EPA published a public notice of the comment period in the local newspaper. Since the interim action is primarily an administrative procedure to secure long-term funding, EPA did not automatically hold a public meeting, but notified the public that one would be held if there was sufficient public interest. Since no calls were received requesting a public meeting, none was held. EPA received one comment on the proposed plan that supported EPA's preferred alternative.

This decision document presents the selected interim remedial action for the Site-Wide Ground-Water OU, chosen in accordance with CERCLA, as amended by SARA, and, to the extent practicable, the NCP. This decision is based on the Administrative Record for the Site.

4.0 SCOPE AND ROLE OF OPERABLE UNIT

For purposes of managing Site activities, EPA has divided the Site into three projects or Operable Units (OUs):

1. The Boomsnub Soil OU
2. The BOC Gases Soil OU
3. The Site-Wide Ground-Water OU

Figure 2 and Table 1 provide further information on the location and description of these OUs.

Table 1
Boomsnub/Airco Gases Superfund Site
Operable Unit Description

OU1- Boomsnub Soil

Includes the Boomsnub property and investigation of the remaining chromium contamination in the soil on the property. Results of the soil investigation will be included in the site-wide remedial investigation/feasibility study (RI/FS).

OU2 - BOC Gases Soil

Includes the investigation of the extent of VOC contamination on BOC Gases Property and installation of ground-water monitoring wells in the Alluvial and Upper Troutdale Aquifers. EPA and BOC Gases have signed an Administrative Order on Consent for the implementation of this work. Results of this work will be summarized in the site-wide RI/FS.

OU3 - Site-Wide Ground-Water

Includes the contaminated ground water beneath both properties and the contamination extending approximately 4,000 feet west/northwest of the properties. Site activities include the operation and maintenance of the existing ground-water extraction/treatment system and enhancements to the system. One RI/FS for both the Boomsnub Soil and Site-Wide Ground-Water OUs will be prepared. A Risk Assessment will be included in this effort.

This interim ROD for the Site-Wide Ground-Water OU is limited in scope and addresses only actions necessary to contain and remove contaminated ground water through the continued operation of the extraction/treatment system. Other activities associated with operation of the extraction/treatment system, such as installation of additional monitoring wells and

improvements to the system, have also been incorporated in this ROD. These interim actions will be consistent with any future actions and will be reviewed and incorporated, to the extent practical, into the final ROD for this OU.

5.0 SUMMARY OF SITE CHARACTERISTICS

5.1 Geology/Hydrogeology

There are two principal hydrogeologic units of concern in the general area of the Site. These are the Pleistocene Alluvial deposits and the Upper Troutdale formation. The Pleistocene Alluvial deposits are the near surface material and overlie the Upper Troutdale formation. The Alluvial deposits consist of an unsaturated zone, an upper permeable aquifer (in which the chromium and VOC contamination extends down gradient approximately 4000 feet) and a lower, low-permeability silty/clayey aquitard. This aquitard separates the Alluvial aquifer from the Upper Troutdale, which is the source of drinking water for approximately 65,000 residents in Clark County. The aquitard varies from approximately 5 to 20 feet in thickness, and there are known breaches in the aquitard in the vicinity of the Site. There are several private wells in the Alluvial aquifer in the general area of the Site. Some of these wells are still used for drinking water. Those residents whose wells have been affected by the ground-water contamination in the Alluvial aquifer or are within the path of the ground-water contaminant plume have been connected to an alternate water supply provided by Clark Public Utilities (CPU). CPU is the local water purveyor for the residents in this area of Clark County. CPU also has several water supply wells in the Upper Troutdale. The closest of these wells is within 2000 feet of the contamination in the Alluvial aquifer.

The ground-water flow direction in the Upper Alluvial aquifer is in a west/northwest direction. The ground-water flow direction in Upper Troutdale may be in a west/southwest direction. This flow direction, however, is in question because it is based on wells of unknown construction: EPA plans to install additional wells in the Upper Troutdale as part of the Boomsnub Soil and Site-Wide Ground-Water RI/FS to confirm the actual flow direction.

5.2 Nature and Extent of Contamination

Several Site studies have been completed since 1987 on behalf of Ecology, EPA, and BOC Gases that provide a partial picture of the extent of contamination at the Site. These studies are summarized below and are included in the Administrative Record for the Site. A complete characterization of the Site, including studies completed by BOC Gases, will be contained in the Site-Wide Ground-Water and Boomsnub Soil RI/FS, scheduled for completion in 1999.

5.2.1 Boomsnub Facility

In 1986, Ecology conducted a site inspection at Boomsnub. Shallow soil samples showed chromium concentrations ranging from 163 to 3,140 parts per million (ppm) chromium. Lead

concentrations ranged from 119 to 2,985 ppm. In 1989, ground-water samples collected from wells on the Boomsnub property showed chromium concentrations ranging from 1,300 to 5,800 ppb.

Ground-water samples collected from 1990 through 1994 at on and off-property monitoring wells in the Alluvial aquifer showed that the highest chromium concentrations ranged from 2,400,000 ppb (at MW-11 on the Boomsnub property, now removed) to 89,000 ppb at MW-19D (located in the field west of St. Johns Road). Sampling results from private wells and CPU monitoring wells during this period showed no chromium in the Upper Troutdale. Low concentrations of TCE were found in one private well and one CPU well, as discussed further below.

In 1994, sampling conducted as part of the EPA removal at the Boomsnub property showed chromium concentrations greater than 9,000 ppm in subsurface soil. While the bulk of this contaminated soil was removed from the property, post-removal sampling indicated that some chromium-contaminated soil remains on the property. Additional sampling will be conducted during the RI/FS to determine whether the volume and areas of remaining contamination warrant further cleanup.

5.2.2 BOC Gases Facility

In response to the discovery of VOCs in ground water in 1991, BOC Gases conducted several limited on-site investigations from 1992 to 1994. Results of the investigations showed low levels of VOCs in a few samples from on-site soils. The highest concentrations of VOCs were found in a sediment sample from the south dry well. The south dry well sample contained TCE at 250,000 ppb, Freon-11 at 800,000 ppb and TCA at 9,900 ppb. Ground-water samples from wells in the Alluvial aquifer showed a variety of VOCs including TCE at concentrations up to 9,200 ppb, 1,1,1-TCA at 390 ppb, PCE at 110 ppb, and Freon -11 at 220 ppb. In addition, sampling results from one private well and one CPU monitoring well in the Upper Troutdale aquifer showed low levels of TCE; however, the construction of the private well is unknown, and the CPU well was not constructed according to state regulations. Therefore, it is unclear whether the TCE has penetrated the aquitard at just these locations due to the well construction, or whether it has migrated down to the Upper Troutdale through another breach in the aquitard in the area. Additional wells and sampling, as discussed further below, will be conducted during the Site-Wide Ground-Water RI/FS to determine the source and pathway of the TCE.

BOC Gases is currently conducting a Site Evaluation on its property to determine if a source (or sources) of the VOC contamination remains in the soil that warrants cleanup. The results of the Site Evaluation will be available in early 1998.

5.3 Current Extraction/Treatment Operations and Site Monitoring

Through its contractor, ICF Kaiser, EPA continues to operate and maintain the ground-water

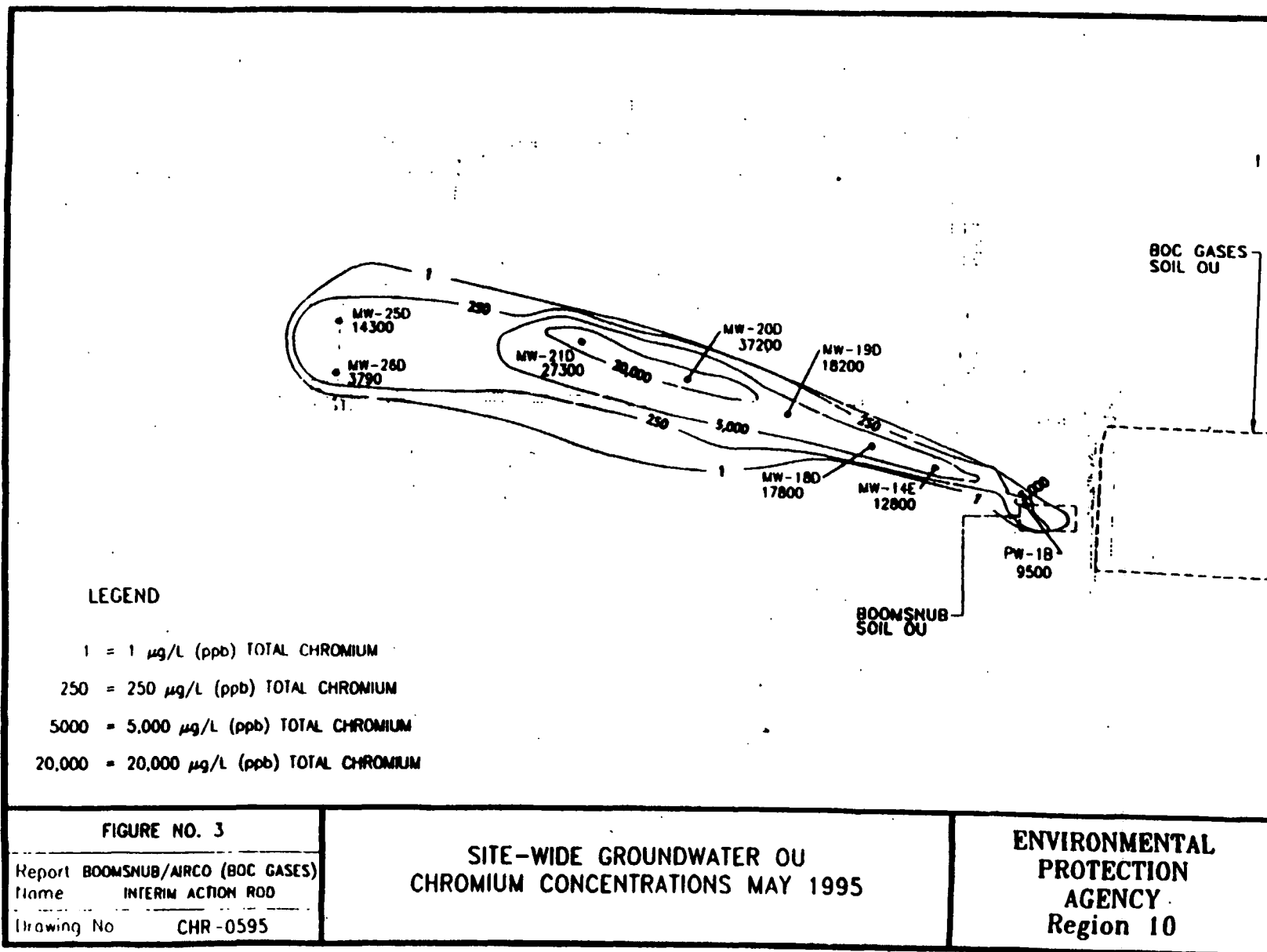
extraction network consisting of fifteen extraction wells. The extraction system is containing most of the chromium and VOC contamination in the ground water, except for an unknown amount at the farthest down gradient (western) edge that has moved beyond the capture zone of the outermost extraction wells. Currently, EPA is extracting water from nine of the fifteen extraction wells in order to optimize the efficient removal of contamination. EPA also operates and maintains the ion exchange system that removes the chromium from the ground water. BOC Gases operates the air stripping portion of the treatment system, which removes the VOCs from the ground water. After the water is treated, it is then discharged to the sanitary sewer, where it is further treated at the City of Vancouver waste water treatment plant.

EPA samples the operating ground-water extraction wells on a monthly basis. EPA also samples the influent and effluent from the treatment plant for compliance with its permit limits for discharge to the sanitary sewer. Twice a year, in the spring and fall, EPA samples selected wells in the ground-water monitoring network. The purpose of this twice-yearly monitoring is to determine the effectiveness of the cleanup in removing ground-water contamination and to assist EPA in deciding whether changes need to be made in operation of the system.

Figures 3 and 4 show the concentrations of chromium and TCE in the ground water when EPA conducted its first major sampling event in April/May of 1995. Figures 5 and 6 show the chromium and TCE concentrations in ground water from the most recent (May 1997) sampling event. These figures show the reduction in the highest chromium concentrations along the centerline of the plume. Figure 7 further illustrates the generally downward trend (with the exception of (MW-14E) in chromium concentrations along the center line of the plume. Figure 8 shows the trends in the TCE data. These data show that some wells, in particular AMW-12A and MW-14E, have increasing TCE concentrations over the last two years.

EPA has determined through its monitoring program that, although the majority of the contamination is being controlled and significant volumes of contaminated water have been extracted and treated, it could take an additional ten to fifteen years to reduce chromium to below the federal drinking water standard (100 parts per billion) at the current pumping rate of approximately 100 gallons per minute (gpm). A similar calculation has not yet been made for removal of the VOCs; however, EPA expects that removal of the VOC contamination will take at least this long at current rates.

In 1996, EPA installed additional temporary and permanent monitoring wells near the leading edge of the plume and along NE 30th Street. The purpose of installing these wells was to determine if contaminated ground water had moved beyond the capture zone of the last two extraction wells. Data collected from the wells on NE 30th Avenue in October 1996 indicate that chromium and VOCs have reached these wells, but at levels below drinking water standards. In the May 1997 sampling event, chromium and VOCs were not detected. This may be the result of an unusually high water table caused by heavy rains during the winter of 1996-1997. EPA will sample these wells in October 1997, during the low water table season, to see if contaminant concentrations seen in the October 1996 sampling will be replicated. Additional monitoring



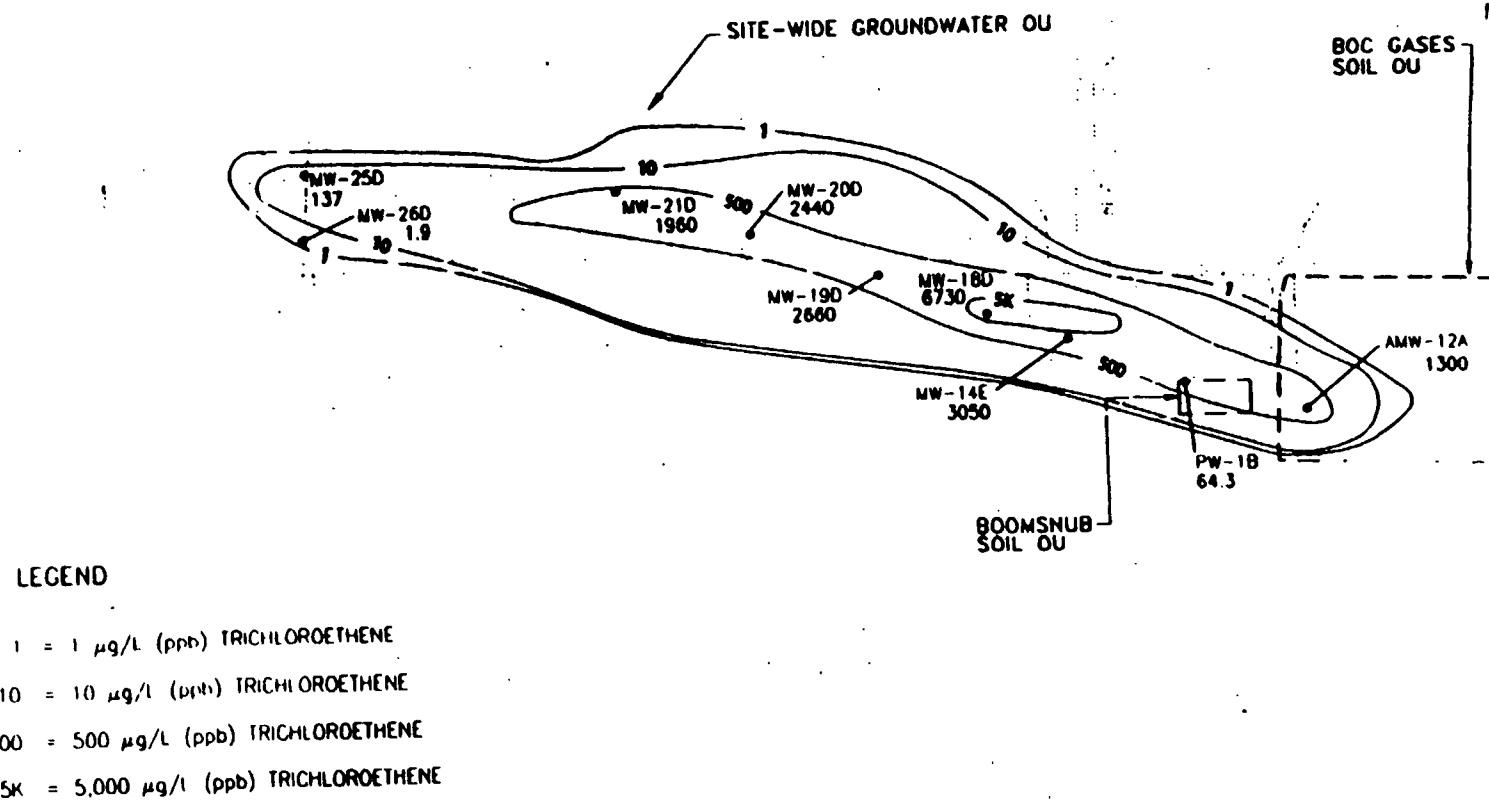
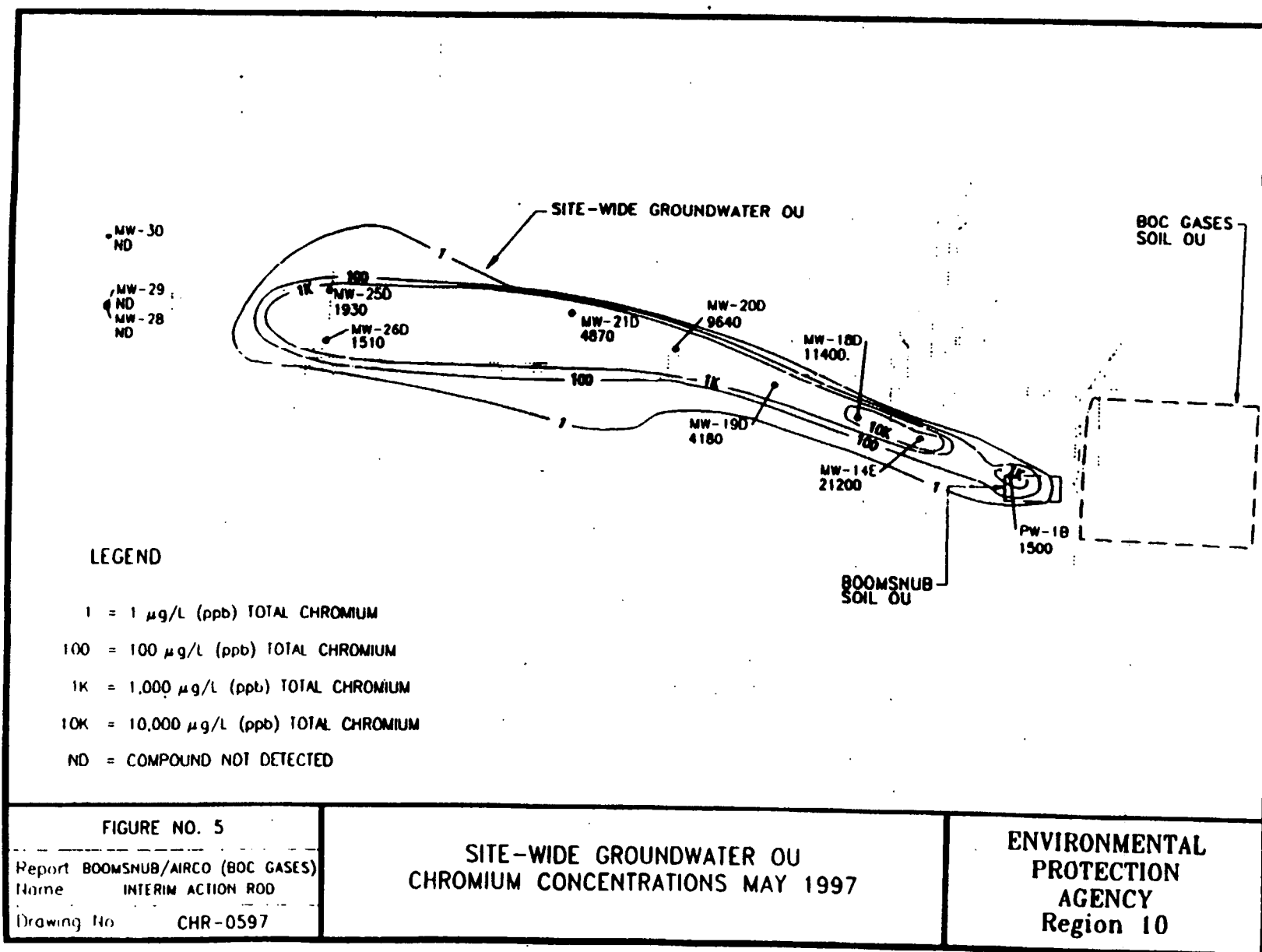


FIGURE NO. 4

Report BOOMSNUB/AIRCO (BOC GASES)
 Name INTERIM ACTION ROD
 Drawing No TCE-0595

SITE-WIDE GROUNDWATER OU
 TRICHLOROETHENE CONCENTRATIONS MAY 1995

ENVIRONMENTAL
 PROTECTION
 AGENCY
 Region 10



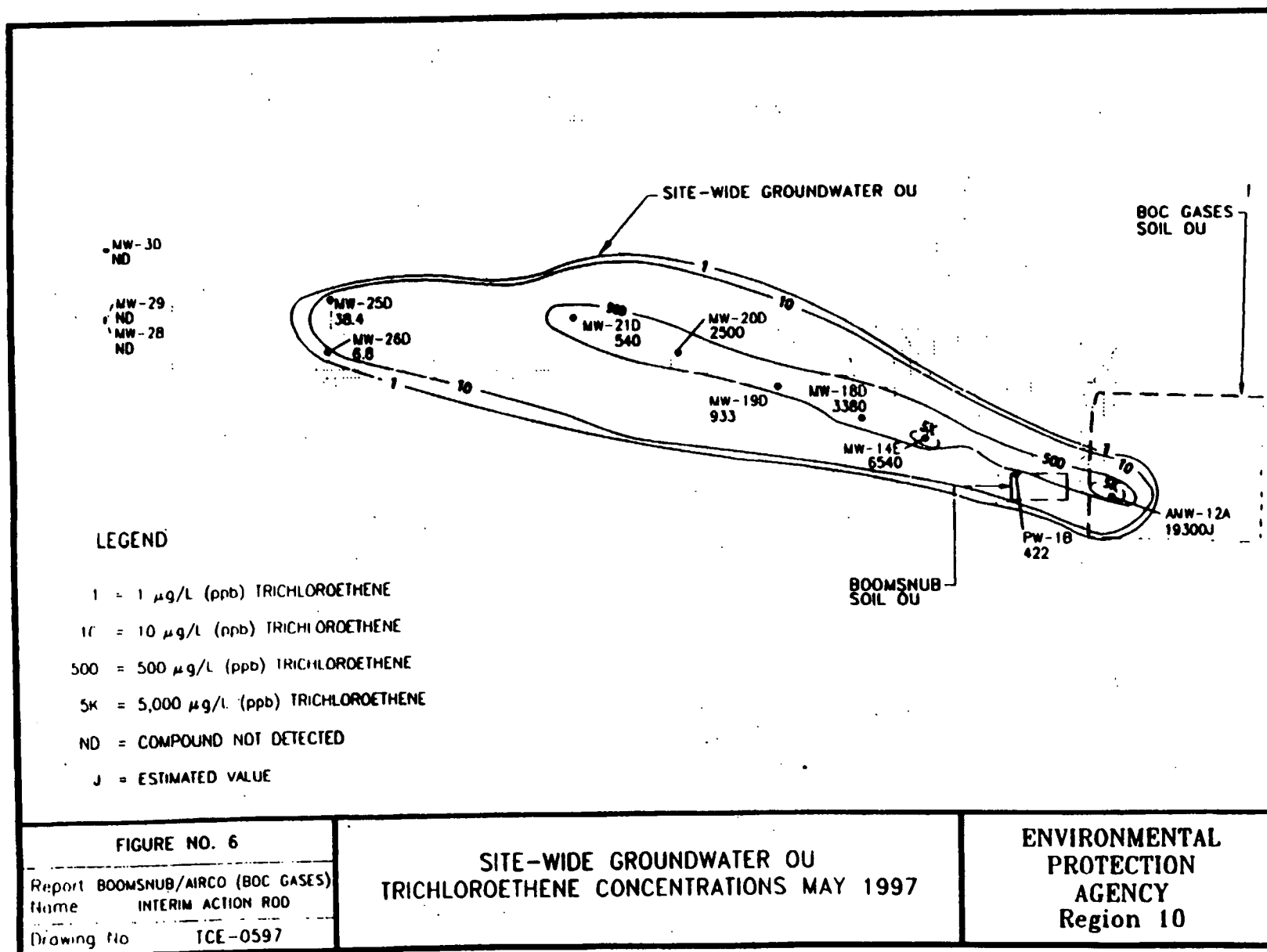


FIGURE 7
CHROMIUM CONCENTRATIONS IN SITE WELLS

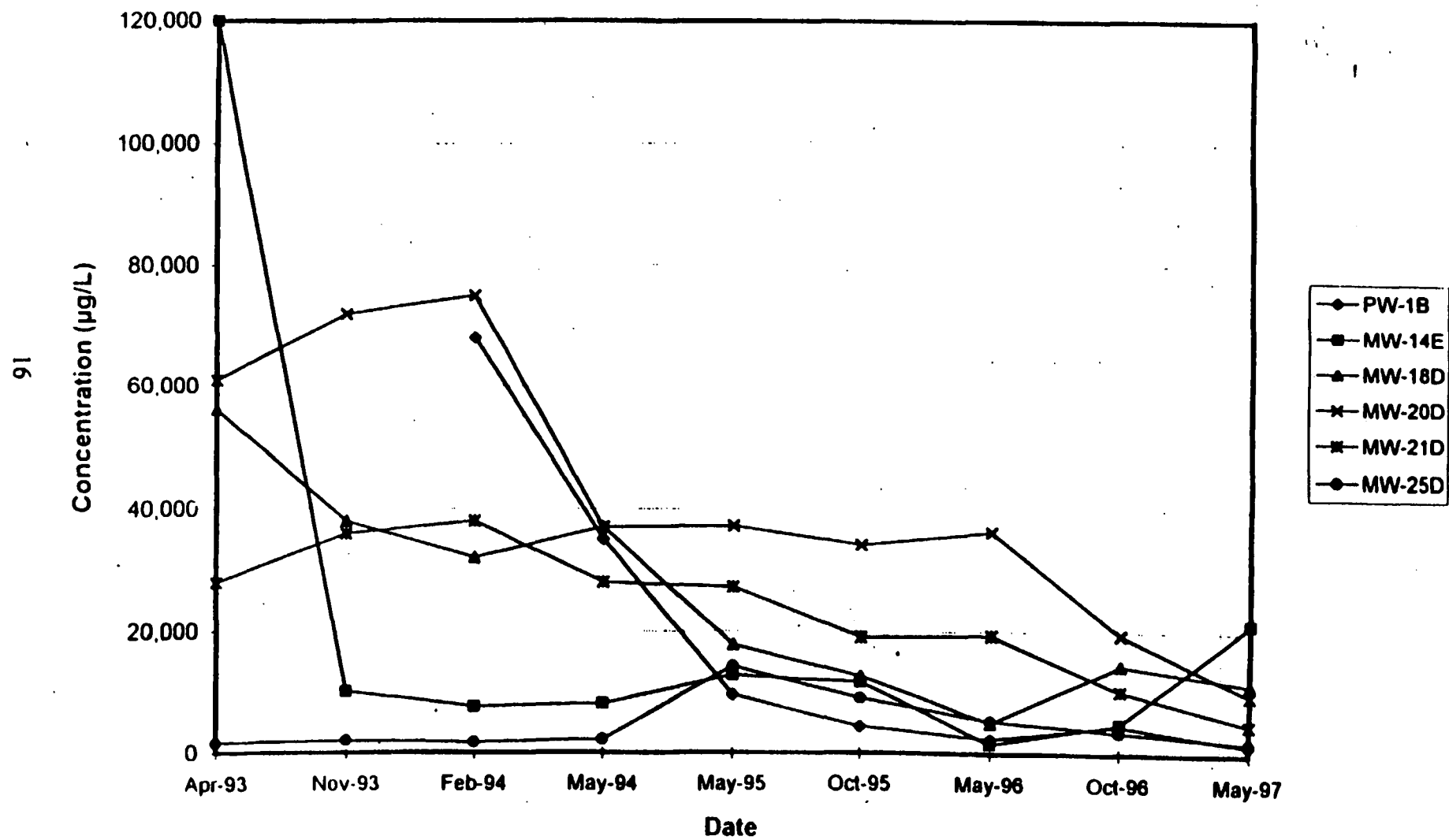
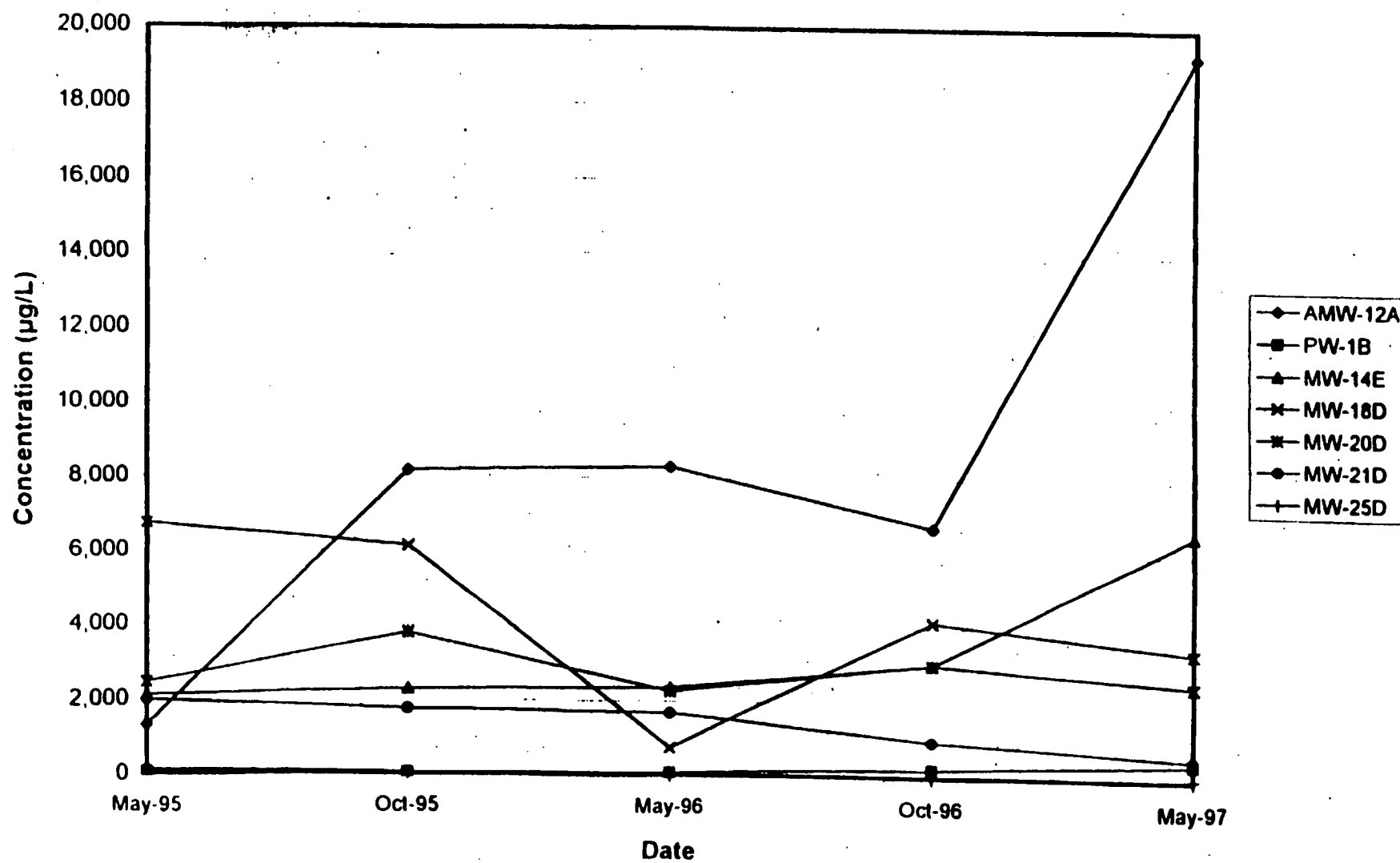


FIGURE 8
TCE CONCENTRATIONS IN SITE WELLS



wells, however, are needed between this last set of monitoring wells and extraction wells MW-25 and MW-26 to determine if this portion of the ground-water contaminant plume warrants extraction and treatment.

6.0 RISK ASSESSMENT

Since a Risk Assessment has not yet been completed for this Site, EPA is unable to characterize the combined risk from the contaminants in soil and ground water at this time. As part of the Site Evaluation at the BOC Gases Soil OU, BOC Gases will complete a streamlined risk evaluation. Data collected during the Site Evaluation will be combined with data collected during the RI for the Boomsnub Soil and Site-Wide Ground-Water OUs and used to prepare a site-wide baseline Risk Assessment.

The most recent (May 1997) monitoring data show that average concentrations of chromium and TCE are far in excess of the federal drinking water standard of 100 ppb and 5 ppb, respectively. The average chromium concentration in the untreated ground water entering the treatment plant is 4,360 ppb. The average TCE concentration is 2,020 ppb.

Actual or threatened releases of hazardous substances from the Site, if not addressed by implementing the response actions selected in this Record of Decision (ROD), may present an imminent and substantial endangerment to public health, welfare, or the environment.

7.0 GOALS AND OBJECTIVES OF THE INTERIM ACTION

The goal of the interim action is to contain contaminated ground water in the Alluvial aquifer and prevent its spread into the Upper Troutdale aquifer, the regional water supply, which lies below the Alluvial aquifer. The nearest public water supply well for CPU, the local water purveyor in the area, is in the Upper Troutdale aquifer and is within 2,000 feet of the leading edge of the contaminant plume. CPU provides water to more than 60,000 customers. Even though the contamination to date is found in the Alluvial aquifer, which is not the regional water supply, there are known breaches in the aquitard separating the two aquifers, and TCE has been found in at least one private well and one monitoring well in the Upper Troutdale aquifer.

This action is an administrative procedure needed to secure long-term funding, called Remedial Action Funds, for site cleanup. For the past two and one half years, EPA has used funds from its Removal Program to pay for the operation and maintenance of the ground-water extraction/treatment system. Since operation of the system will continue for a number of years, EPA believes it is appropriate to secure long-term funding for operation of the system and discontinue using Removal Program funds. The interim action ROD will allow EPA to access a more appropriate source of cleanup money called Remedial Action funds. In order to obtain these funds, EPA must document the decision to continue treating ground water in an interim action ROD.

8.0 DESCRIPTION OF REMEDIAL ACTION ALTERNATIVES

This section describes alternatives only for the interim action for the Ground-Water OU at the Site. This is the only OU being addressed in this interim action.

Two alternatives were under consideration: (1) no action, and (2) operate the current ground-water extraction/treatment system and make improvements to the extraction and monitoring network to more efficiently clean up the contaminated ground water.

8.1 Alternative 1: No Action

EPA is required to consider the "no-action" alternative to compare risks and benefits of other cleanup approaches. Under this alternative, both the treatment plant and the ground-water extraction system would be abandoned, and treatment of contaminated ground water would cease. This action has no capital or operations and maintenance costs, but would have some shut down costs.

This action, however, has significant environmental costs. Abandonment of the system would result in the plume migrating unchecked with the potential to reach the Upper Troutdale aquifer, the regional water supply, and the CPU well field.

8.2 Alternative 2: Operate Existing System and Improve the Extraction/Treatment System and Plant Facilities

Under this alternative, EPA would keep the existing ground-water extraction/treatment plant in operation and make routine repairs as needed. EPA would also make improvements to the extraction and monitoring network and plant facilities. These improvements would include installing additional monitoring wells near the leading edge of the plume to determine the need for more extraction wells, and connection of the wells to the extraction network, if necessary. In addition, some extraction wells and vaults would be upgraded as necessary to prevent infiltration of water during storm events. Finally, additional space would be built or acquired for office use and for storage of new and used resin, tools, parts and equipment, the telemetry system, and other O & M items.

The approximate cost of Alternative 2 is shown below.

O & M of Existing System: \$800,000/year

Improvements to the System: \$300,000

It is expected that this interim action would operate for two to three years until implementation of the final remedial action for the Site.

9.0 COMPARATIVE ANALYSIS OF ALTERNATIVES

Each remedial alternative under consideration must be evaluated according to specific criteria. The purpose of this evaluation is to promote consistent identification of the relative advantages and disadvantages of each alternative. There are nine criteria by which feasible remedial alternatives are evaluated. Although all nine criteria are important, they are weighted differently in the decision-making process. The nine criteria are summarized in Table 2. The following is EPA's evaluation of the alternatives.

9.1 Overall Protection of Human Health and the Environment

Alternative 2 is protective of public health and the environment. Operation of the extraction/treatment system will ensure that contamination is contained. Installation of additional monitoring wells will assist EPA to determine the concentration of contaminants in the portion of the ground-water plume that has moved beyond the capture zone of the extraction system, and extract and treat this water, if necessary. Other system improvements will allow EPA to operate and maintain the extraction/treatment system with lower costs and fewer shutdowns.

The No-Action alternative is not protective. It would allow the contaminant plume to advance and potentially reach the CPU water supply wells in the Upper Troutdale aquifer.

9.2 Compliance with ARARs

Implementation of Alternative 2 is an interim action that will achieve the objective of controlling the migration of contaminated ground water in the Alluvial aquifer. The alternative proposed is an interim measure and will become part of the final cleanup action that will attain the "applicable or relevant and appropriate requirements" (ARARs). ARARs relating to the wastes generated from the operation of the ground-water extraction/treatment system apply while this interim action is implemented. These ARARs will be met during operation of this alternative. Final ARAR-compliant actions will be identified as part of the site-wide RI/FS and final Record of Decision.

The No-Action alternative does not comply with state ARARs for protection of ground water.

9.3 Long-Term Effectiveness and Permanence

Alternative 2 provides the greatest potential for minimizing risks from contaminated ground water over the long term. The ground-water extraction/treatment system will continue to operate, which will control and clean up the contaminant plume, thus protecting the Upper Troutdale aquifer. The improvements to the existing extraction and monitoring network will allow EPA to optimize the operation of the system and better understand and control the movement of ground-water contamination. Installation of additional monitoring wells will assist EPA in determining

Table 2
Evaluation Criteria

EPA uses nine criteria to evaluate and compare alternatives for a given site. With the exception of the no-action alternative, all alternatives must meet the first two "threshold" criteria. EPA uses the next five criteria as "balancing" criteria for comparing alternatives and selecting a preferred alternative. After public comment, EPA may alter its preference on the basis of the last two "modifying" criteria.

Threshold Criteria

- 1. Overall Protection of Human Health and the Environment** - How well does the alternative protect human health and the environment?
- 2. Compliance with Regulations** - Does the alternative meet all applicable or relevant and appropriate state and federal environmental laws (ARARs), or if not, is a waiver justified?

Balancing Criteria

- 3. Long-term Effectiveness and Permanence** - How well does the alternative protect human health and the environment after cleanup goals have been reached? What, if any, risks will remain at the site? What is the adequacy and reliability of controls?
- 4. Reduction of Toxicity, Mobility, or Volume** - Is the toxicity, mobility, and volume of the hazardous substance significantly reduced through treatment? What are the type and quantity of residuals?
- 5. Short-term Effectiveness** - Are there potential adverse effects to either the community, site workers, or the environment during construction or implementation of the alternative? How fast does the alternative reach the cleanup goal?
- 6. Implementability** - Is the alternative both technically and administratively feasible? Has the technology been used successfully on other similar sites?

Modifying Criteria

- 7. Cost** - What are the estimated present worth costs of the alternative?
- 8. State Acceptance** - What are the state's comments or concerns about the alternatives considered and about the preferred alternative? Does the state support or oppose the preferred alternative?
- 9. Community Acceptance** - What are the community's comments or concerns about the alternatives considered and about the preferred alternative? Does the community generally support or oppose the preferred alternative?

the concentration of contaminants in the portion of the ground-water plume that has moved beyond the capture of the extraction network. These wells could then be converted to extract this water, if necessary. Other improvements will allow EPA to operate and maintain the extraction/treatment system with lower costs and fewer shutdowns.

The No-Action alternative would not minimize risks from contaminated ground water. It would result in the contamination moving unchecked, potentially reaching the CPU water supply wells in the Upper Troutdale aquifer.

9.4 Reduction in Toxicity, Mobility, or Volume Through Treatment

Alternative 2 is designed to reduce the toxicity, mobility, or volume of contaminants in the ground water. It would also address the potential problems associated with the portion of the plume that has moved beyond the capture of the existing system. The No-Action alternative would not reduce the toxicity, mobility, or volume of contamination.

9.5 Short-Term Effectiveness

Alternative 2 provides the most protectiveness in the short term. Control of the ground-water contamination would continue through extraction and treatment of contaminated ground water. Installation of additional monitoring and/or extraction wells under this alternative would cause some short-term disruptions and inconvenience during construction.

The No-Action alternative falls short of achieving the goals established for this interim action (containment of ground-water contamination), causing potentially adverse effects in the short term. If no action is taken, ground-water contamination will move unchecked until a final action is taken at the Site.

9.6 Implementability

Both alternatives considered can be completed successfully with varying degrees of difficulty. Alternative 2 is more difficult to implement because, in addition to current Site activities and planned improvements, it requires negotiation with land owners for access for construction activities. The No-Action Alternative is less difficult to implement since it would result in shut down of the extraction/treatment system.

9.7 Cost

The estimated costs for the two alternatives are summarized below:

Alternative 1 No Action

No capital or O & M costs

Alternative 2 Operate and Make Improvements to the Existing System

\$300,000 capital costs and \$800,000 annual O & M costs

Alternative 2 is the more costly of the two to implement. System improvements would cost approximately \$300,000 and annual O & M costs are approximately \$800,000. O & M costs are projected only for the next two to three years until a final remedy for the Site is selected and implemented.

The No-Action alternative is the less costly alternative. This "no cost," however, ignores the larger environmental impact that would be potentially absorbed by the local community if the contamination reaches the Upper Troutdale aquifer and contaminates the well fields operated by CPU. Likewise, it does not include the loss of any private water supply wells that could be impacted by this action.

9.8 State Acceptance

The Washington State Department of Ecology evaluated the alternatives presented in the proposed plan, supported the preferred alternative identified by EPA, and concurs with the selected remedy for this interim action.

9.9 Community Acceptance

EPA received one comment on the proposed plan. This comment was in support of EPA's preferred alternative to continue extraction/treatment at the Site, and is discussed in the attached responsiveness summary.

10.0 THE SELECTED REMEDY

Based upon the evaluation of the above alternatives, EPA's selected remedy is Alternative 2. This remedy meets the threshold criteria of protecting human health and the environment and meets ARARs. It also achieves optimum compliance with the five balancing criteria: long-term effectiveness, short-term effectiveness, implementability, reduction in toxicity, mobility, or volume through treatment, and cost. It also best satisfies the modifying criteria of state and community acceptance. The selected remedy includes the following actions:

- operation and maintenance of the existing extraction/treatment system;
- installation of additional monitoring wells near the leading edge of the plume to determine the need for more extraction wells, and connection of additional wells to the extraction network, if necessary;
- upgrading some extraction wells and vaults as necessary to prevent infiltration of water during storm events, and

acquisition or construction of office and storage space for the extraction/treatment and telemetry systems, new and used resin, as well as for tools, parts and equipment needed for O & M of the system.

EPA will continue to operate and maintain the existing treatment plant pending the final remedial action at the Site. The repairs and improvements to the extraction system and plant facilities should reduce long term O & M costs and periodic shutdowns of the system. Off-site disposal of hazardous waste from this remedial action (e.g., the resin used to remove chromium from ground water) will go to a facility acceptable under EPA's Off-Site Disposal Rule.

EPA will routinely sample selected ground-water extraction and monitoring wells and conduct other studies to optimize the efficient extraction of contaminated ground water. The ongoing operation and maintenance of the extraction/treatment system will be conducted in conjunction with the RI/FS for the Boomsnub Soil and Site-Wide Ground-Water OUs, and the Site Evaluation at the BOC Gases Soil OU. Data collected during ongoing activities will be used in the development of the RI/FS and the final remedial action at the Site.

EPA believes that additional monitoring and/or extraction wells are needed to reduce the potential risk from that portion of the ground-water contamination that has migrated beyond the current capture zone of the leading edge extraction wells. At the time these wells were connected to the extraction network (December 1994), significant chromium contamination was immediately detected in them. EPA increased the pumping rate of these wells to create a hydraulic barrier and prevent the majority of the contamination from advancing. However, modeling indicates, and monitoring verifies, that an unknown quantity of contamination has moved beyond the capture of the two furthestmost extraction wells and is migrating in a west/northwest direction. Additional wells are needed between EPA's monitoring wells (MW-28, MW-29, and MW-30) and the last line of extraction wells (MW-25 and MW-26, as depicted in Figure 2). The new monitoring wells will be used to determine the concentration of contamination in the portion of the plume that has moved beyond the capture of the outermost extraction wells. The data collected will assist EPA to determine whether the contaminant concentrations warrant extraction and treatment. The new monitoring wells will be sized for conversion to extraction wells, should conversion become necessary.

The cost (+50 to -30%) of the selected remedy is approximately \$300,000 in capital costs for monitoring and extraction well installation and other system improvements and \$800,000 in annual O & M costs.

11.0 STATUTORY DETERMINATIONS

11.1 Protection of Human Health and the Environment

The selected interim action protects human health and the environment. The No-Action alternative does not ensure long-term protection of human health or the environment because it does not contain the contaminated ground water. Protection of human health and the environment is obtained by containing, extracting and treating contaminated ground water.

Long-term operation and maintenance will be required for the selected remedy. The effectiveness of the interim remedy will be evaluated as part of the final RI/FS for the Site to determine if additional source control and/or ground-water treatment actions are required.

11.2 Compliance with Applicable or Relevant and Appropriate Requirements

The selected remedy will be designed and implemented to attain all action specific, chemical specific, and location specific ARARs identified in this section. Because this is an interim remedial action, ground-water cleanup standards are not being established in the ROD.

Clean Air Act, 42 U.S.C. §§ 7412, 7661(a); General Regulations for Air Pollution Sources, WAC 173-400; Emission Standards and Controls for Emitting Volatile Organic Compounds, WAC 173-490; Southwest Washington Air Pollution Control Agency Regulations I, II & III

The VOCs in the contaminated ground water are removed by an air stripper. Air stripping removes the VOCs from ground water and transfers them to the air in a gaseous state. The air is treated using carbon adsorption to remove the VOCs. BOC Gases operates and maintains this portion of the treatment system. BOC Gases obtained a permit from the Southwest Washington Air Pollution Control Agency to operate the air stripper prior to the Site being listed on the NPL. Operation of this portion of the treatment system does and will continue to comply with the substantive requirements of the WAC 173-400 as implemented by SWAPCA. Further, Washington Emission Standards and Controls for Emitting Volatile Organic Compounds (WAC Chapter 173-490) establishes standards for specific VOC source emissions. These standards establishing emission standards for the air stripping system and the granular activated carbon unit are incorporated into the permit being met at the Site.

Clean Water Act, 33 U.S.C. § 1311; 40 CFR 403.5; Water Pollution Control Act, RCW 90.48; Water Resources Act, RCW 90.54; Grant of Authority Sewerage Systems, WAC 173-208

These regulations apply to the off-site disposal of the treated ground water and technically are not an ARAR at this site. ARARs apply to those actions which occur on-site. Since this is an off-site disposal action, EPA has a permit for its discharge to the City of Vancouver's wastewater treatment system and will meet the requirements set forth in the permit. EPA will also meet the requirements of 40 CFR 403.5, that prohibit dischargers into publicly owned treatment works from introducing pollutants that pass through the facility without treatment or that interfere with the treatment works.

Resource Conservation and Recovery Act, 42 U.S.C. §§ 6921-22; 40 CFR Part 262 Subparts A, B, C, and D; 40 CFR Part 265, Subparts I, AA, BB, and CC; Washington State Dangerous Waste Regulations, WAC 173-303-070, 173-303-170 to -200, 173-303-630.

The hazardous waste generated by the operation of the groundwater treatment system includes the chromium-contaminated resin used to remove chromium from the ground water. This waste is characterized and stored temporarily prior to off-site shipment for disposal at a permitted

facility. EPA has installed a storage area to meet the substantive requirements of these regulations for the proper on-site storage of hazardous waste prior to off-site disposal. EPA will meet the federal and state regulations requiring identification of hazardous wastes and proper handling of these wastes prior to disposal.

Executive Order 11990, Executive Order for Protection of Wetlands

This Executive Order requires EPA to avoid long- and short-term adverse impacts associated with the destruction or modification of wetlands and avoid direct or indirect support of new construction in wetlands whenever there is a practicable alternative.

Some of the extraction system's wells and vaults are either within or adjacent to designated wetlands. This interim action includes the continued operation of these wells and modification to some extraction wells and vaults to prevent infiltration of water during storm events. Operation of and improvements to the extraction system are necessary to maintain control of and clean up the ground-water contamination at the Site. While there is no practical alternative to these actions, care will be taken to minimize damage to these wetlands during construction activities.

Solid Waste Management-Reduction & Recycling Act, RCW 70.95; Minimum Functional Standards for Solid Waste Handling, WAC 173-304.

These requirements apply to the disposal of non-hazardous waste. All non-hazardous waste generated will be disposed off-site in accordance with these regulations. Since disposal occurs off-site, this law and regulations technically are not ARARs. Operation of the extraction/treatment system will comply with these regulations.

Pollution Disclosure Act of 1971, RCW 90.52.040.

This law requires that wastes are to be provided with all known, available, and reasonable methods of treatment prior to their discharge or entry into waters of the state, and apply to the disposal of the treated ground water generated by the extraction/treatment system.

The contaminated ground water will be treated, using ion exchange and air stripping, prior to discharge to the City of Vancouver sanitary sewer. This treatment of ground water prior to discharge will comply with the requirements of this Act.

Water Well Construction Act, RCW 18.104; Minimum Standards for Construction and Maintenance of Wells, WAC 173-160- 500 to -560

These regulations are applicable to the construction of additional monitoring and extraction wells at the Site. The construction of new monitoring and extraction wells will meet the standards set for proper construction of resource protection wells.

11.3 Utilization of Permanent Solutions and Alternative Treatment Technologies or Resource Recovery Technologies to the Maximum Extent Practical

Extracting and treating ground water to remove contaminants is a permanent solution. Overall, the interim actions selected represent the best balance of alternatives with respect to the selection criteria, given the limited scope of the action.

11.4 Cost Effectiveness

The continued operation of the ground-water extraction/treatment system provides overall effectiveness proportionate to its costs, such that it represents a reasonable value for the money to be spent.

11.5 Preference for Treatment as a Principal Element

The objective of the selected interim remedy includes containing the migration of the contamination. It is achieved through extraction and treatment of contaminated ground water. The selected remedy meets the statutory preference for using treatment as a principal element.

12.0 DOCUMENTATION OF SIGNIFICANT CHANGES

The selected remedy does not contain any significant changes from the preferred alternative originally presented in the Proposed Plan.

Appendix

- A Responsiveness Summary**
- B Administrative Record Index**

APPENDIX A
RESPONSIVENESS SUMMARY

RESPONSIVENESS SUMMARY

Introduction

The purpose of this responsiveness summary is to summarize and respond to public comments submitted on the Proposed Plan for Interim Action at the Boomsnub/Airco Superfund Site. In the Proposed Plan, issued July 28, 1997, the U.S. Environmental Protection Agency (EPA) described alternatives considered for the cleanup of the ground water at the Site. These alternatives were based on information in the Administrative Record. The public comment period for the Proposed Plan was held from July 30, 1997 to August 29, 1997. This responsiveness summary meets the requirements of Section 117 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA).

Since the interim action is primarily an administrative procedure to secure long-term funding, EPA did not automatically hold a public meeting, but notified the public that one would be held if there was sufficient public interest. Since no calls were received requesting a public meeting, none was held. EPA received one written comment on the proposed plan.

Response to Comments Received During the Public Comment Period

Comment: EPA received one comment on the proposed plan, from the N.E. Hazel Dell Neighborhood Association. The Neighborhood Association supported EPA's preferred alternative to continue extraction/treatment of the contaminated ground water and make improvements to the system.

Response: EPA is appreciative of the Neighborhood Association's support and thanks them for their comment.

APPENDIX B
ADMINISTRATIVE RECORD INDEX

TABLE OF CONTENTS
BOOM.SNUB/AIRCO - INTERIM ACTION ADMIN. RECORD (BIAAR)

September 23, 1997

- 0. 0 TABLE OF CONTENTS/INDEX**
- 1. 0 SITE IDENTIFICATION**
 - 1. 1 Correspondence**
 - 1. 2 Preliminary Assessment**
 - 1. 3 Site Inspection Report**
 - 1. 4 RCRA Compliance Evaluation Inspection**
 - 1. 5 Sampling & Well Log Data**
 - 1. 6 NPL Documentation**
 - 1. 7 Treatment Technology Alternatives Evaluation**
 - 1. 8 Groundwater Monitoring Reports**
 - 1. 9 State of Washington Reports**
 - 1. 9. 1 Hydrogeologic Investigations**
 - 1. 9. 2 Interim Actions & Work Plans**
 - 1. 9. 3 Groundwater Well Installation**
 - 1. 11 Removal Activities**
 - 1. 11. 2 Action Memoranda**
 - 1. 11. 3 Operation Observations/Sump Lining Reports**
 - 1. 11. 6 Sampling Activities (3 Volumes)**
 - 1. 11. 9 OSC Report**
- 2. 0 REMEDIAL INVESTIGATION/FEASIBILITY STUDY (R/FS)**
 - 2. 2 R/FS Scoping**
 - 2. 2. 1 Correspondence**
 - 2. 2. 2 Meetings/Agenda**
 - 2. 3 Sampling and Analysis Plans**
 - 2. 4 Sampling Data (3 Volumes)**

TABLE OF CONTENTS
BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD (BIAAR)

September 23, 1997

- 2. 4. 1 Notice of Improper Sample Submittal**
- 3. 0 RECORD OF DECISION (ROD)**
 - 3. 1 Record of Decision**
 - 3. 2 Proposed Plan for Interim Action**
 - 3. 3 Memos Relating to ROD**
- 4. 0 AIRCO/(BOC GASES) SITE EVALUATION**
 - 4. 1 Correspondence**
 - 4. 2 Reports - Pre-EE/CA (6 Volumes)**
- 6. 0 REMEDIAL ACTION**
 - 6. 1 Correspondence**
 - 6. 2 Sampling Data (7 Volumes)**
 - 6. 2. 1 Sampling & Analysis Plans**
 - 6. 2. 2 Monthly Monitoring Reports**
 - 6. 2. 3 QA Completeness Check**
 - 6. 2. 4 Geoprobe/Data Validation**
 - 6. 3 Step Drawdown Test**
 - 6. 4 Operation and Maintenance**
 - 6. 4. 1 Systems Operation Report**
 - 6. 4. 2 Emergency Actions**
 - 6. 5 Disposal Information**
 - 6. 6 Extraction System Modeling**
- 8. 0 STATE INVOLVEMENT/COORDINATION**
 - 8. 1 Correspondence**
 - 8. 1. 1 Formal Correspondence**
 - 8. 1. 2 Handwritten Correspondence**

TABLE OF CONTENTS
BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD (BIAAR)

September 23, 1997

9. 0 MUNICIPAL/LOCAL GOVERNMENT INVOLVEMENT

9. 1 Correspondence

9. 2 Discharge Permits

9. 3 PGG Report

13. 0 HEALTH ASSESSMENTS

13. 1 Correspondence

13. 2 ATSDR Health Assessment

14. 0 NATURAL RESOURCE TRUSTEES

14. 1 Correspondence

16. 0 PUBLIC PARTICIPATION

16. 2 Community Relations Plan

16. 3 Public Notices

16. 5 Fact Sheets/Press Releases

16. 8 Newspaper Articles

16. 10 Comments on Interim Action Proposed Plan

18. 0 GUIDANCE/REFERENCE MATERIAL

18. 3 Technical Reference Material

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

HEADING: 0. 0. . . TABLE OF CONTENTS/INDEX

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

HEADING: 1. 0. . . SITE IDENTIFICATION

SUB-HEAD: 1. 1. . . Vol. 1 - Correspondence

1. 1. . . Vol. 1 - 1037001 DOC ID: 40843 IMAGED
DATE: PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Unknown Unknown
DESCRIPTION: Historical description of site.

1. 1. . . Vol. 1 - 1037002 DOC ID: 40844 IMAGED
DATE: 5/12/81 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Southwest Air Pollution Control Authority State of Washington Dept. of Ecology
DESCRIPTION: Complaint form.

1. 1. . . Vol. 1 - 1037003 DOC ID: 40845 IMAGED
DATE: 6/10/82 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Howard Steeley/State of Washington State of Washington Dept. of Ecology
DESCRIPTION: Recommendation for Enforcement Action.

1. 1. . . Vol. 1 - 1037004 DOC ID: 40846 IMAGED
DATE: 6/11/82 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Jon Neel/State of Washington Dept. of Ecology Gail Keyes/State of Washington
DESCRIPTION: Memo regarding Recommendation for Enforcement Action.

1. 1. . . Vol. 1 - 1037005 DOC ID: 35164 IMAGED
DATE: 6/18/82 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Jon Neel/State of Washington Dept. of Ecology Gail Keyes/State of Washington
DESCRIPTION: Memo clarifying 6/11/82 memo regarding enforcement action.

1. 1. . . Vol. 1 - 1037006 DOC ID: 35165 IMAGED
DATE: 6/24/82 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Bruce A. Cameron/State of Washington Jason Niblett/Boomsnub Corp.
DESCRIPTION: Order Docket No. DE82-375 ordering Boomsnub to take appropriate action.

1. 1. . . Vol. 1 - 1037007 DOC ID: 35166 IMAGED
DATE: 6/24/82 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Gail Keyes/State of Washington Jason Niblett/Boomsnub Corp.
DESCRIPTION: Letter regarding Docket No. DE 82-375 and response letter from attorney.

1. 1. . . Vol. 1 - 1037008 DOC ID: 35167 IMAGED
DATE: 8/25/82 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Howard Zenier/Zenier & Associates Ed Taktch/Pacific Northwest Plating
DESCRIPTION: Letter suggesting ideas for dealing with groundwater pollution abatement order from Dept. of Ecology.

1. 1. . . Vol. 1 - 1037009 DOC ID: 35168 IMAGED
DATE: 8/27/82 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Edward Taktch/Pacific NW Plating Gail Keyes/State of Washington

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Letter describing engineering plans and specifications for complying with Dept. of Ecology's order on wastewater containment.

1. 1. . . . Vol. 1 - 1037010 DOC ID: 35169 IMAGED
DATE: 12/15/82 PAGES: 2

AUTHOR(S): Jonathan Neel/State of Washington Dept. of Ecology
ADDRESSEE(S): Edward Takitch/Pacific NW Plating

DESCRIPTION: Letter outlining Dept. of Ecology's concerns about wastewater engineering plans and specifications.

1. 1. . . . Vol. 1 - 1037011 DOC ID: 35170 IMAGED
DATE: 12/23/82 PAGES: 2

AUTHOR(S): Jason Niblett/Pacific NW Plating
ADDRESSEE(S): Jonathan Neel/Washington State Department of Ecology

DESCRIPTION: Letter requesting more time to comply with Dept. of Ecology's requests.

1. 1. . . . Vol. 1 - 1037012 DOC ID: 35171 IMAGED
DATE: 1/12/83 PAGES: 1

AUTHOR(S): WDOE
ADDRESSEE(S): Washington State Department of Ecology

DESCRIPTION: Phone conversation record of conversation with Ed Takitch and Jason Niblett regarding plating tanks.

1. 1. . . . Vol. 1 - 1037013 DOC ID: 35172 IMAGED
DATE: 1/31/83 PAGES: 2

AUTHOR(S): Jason Niblett/Pacific NW Plating
ADDRESSEE(S): Jon Neel/Washington State Department of Ecology

DESCRIPTION: Submittal of wastewater plans and specifications.

1. 1. . . . Vol. 1 - 1037014 DOC ID: 35173 IMAGED
DATE: 2/25/83 PAGES: 1

AUTHOR(S): Jonathan Neel/State of Washington Dept. of Ecology
ADDRESSEE(S): Jason Niblett/Pacific NW Plating

DESCRIPTION: Letter allowing two months to complete installation of wastewater collection system, and request for submittal of a revised plan.

1. 1. . . . Vol. 1 - 1037015 DOC ID: 35174 IMAGED
DATE: 3/9/83 PAGES: 2

AUTHOR(S): Jason Niblett/Pacific NW Plating
ADDRESSEE(S): Jon Neel/Washington State Department of Ecology

DESCRIPTION: Submittal of revisions to wastewater treatment plans.

1. 1. . . . Vol. 1 - 1037016 DOC ID: 35175 IMAGED
DATE: 3/11/83 PAGES: 2

AUTHOR(S): Ed Takitch/Pacific Northwest Plating
ADDRESSEE(S): Jon Neel/State of Washington Dept. of Ecology

DESCRIPTION: Submittal of Spill Prevention Control and Counter Measure plans.

1. 1. . . . Vol. 1 - 1037018 DOC ID: 35176 IMAGED
DATE: 4/25/85 PAGES: 1

AUTHOR(S): M. A. Olczak/Science Applications International Corporation
ADDRESSEE(S): Unknown

DESCRIPTION: Phone contact report of call to Assessor's office regarding ownership/taxpayer of Pacific NW Plating property.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

1. 1. . . Vol. 1 - 1037019 DOC ID: 35177 IMAGED
DATE: 4/25/85 PAGES: 1
AUTHOR(S): M. A. Olczak/Science Applications International ADDRESSEE(S): Unknown
Corporation
DESCRIPTION: Phone contact report of conversation with Howard Steeley of Dept. of Ecology about site inspection.

1. 1. . . Vol. 1 - 1037020 DOC ID: 35178 IMAGED
DATE: 4/27/85 PAGES: 1
AUTHOR(S): M. A. Olczak/Science Applications International ADDRESSEE(S): Unknown
Corporation
DESCRIPTION: Phone contact report of conversation with Gary Bickett of Clark County Environmental Health Dept.

1. 1. . . Vol. 1 - 1037021 DOC ID: 35179 IMAGED
DATE: 5/23/88 PAGES: 1
AUTHOR(S): Mark A. Ader/Ecology & Environment, Inc. ADDRESSEE(S): John Osborn/EPA
DESCRIPTION: Memo stating that a Preliminary Assessment was not necessary as Dept. of Ecology had already completed a site inspection.

1. 1. . . Vol. 1 - 1037022 DOC ID: 35180 IMAGED
DATE: 7/20/88 PAGES: 1
AUTHOR(S): Barrett Tookey/Ecology & Environment, Inc. ADDRESSEE(S): Unknown
DESCRIPTION: Contact report with Paul Curtis at Pacific NW Plating stating that well sampling was completed 4/88.

1. 1. . . Vol. 1 - 1037023 DOC ID: 35181 IMAGED
DATE: 7/22/88 PAGES: 1
AUTHOR(S): Barrett Tookey/Ecology & Environment, Inc. ADDRESSEE(S): Unknown
DESCRIPTION: Contact report with Beth Roland at Dept. of Ecology regarding monitoring well samples.

1. 1. . . Vol. 1 - 1037024 DOC ID: 35182 IMAGED
DATE: 8/ 9/88 PAGES: 1
AUTHOR(S): Barrett Tookey/Ecology & Environment, Inc. ADDRESSEE(S): Unknown
DESCRIPTION: Contact report with Paul Stash at Dept. of Ecology regarding condition of site.

1. 1. . . Vol. 1 - 1037025 DOC ID: 35183 IMAGED
DATE: 8/ 9/88 PAGES: 1
AUTHOR(S): Barrett Tookey/Ecology & Environment, Inc. ADDRESSEE(S): Unknown
DESCRIPTION: Contact report with Ed Taktch at Pacific NW Plating regarding hiring Riedel Environmental to conduct well sampling.

1. 1. . . Vol. 1 - 1037026 DOC ID: 35184 IMAGED
DATE: 12/20/88 PAGES: 8
AUTHOR(S): Thomas Eaton/State of Washington ADDRESSEE(S): Boomsnub Corp.
DESCRIPTION: Letter and Order No. DE 88-S238 advising Boomsnub to take appropriate action regarding dangerous wastes.

1. 1. . . Vol. 1 - 1037027 DOC ID: 35185 IMAGED
DATE: 12/20/88 PAGES: 7
AUTHOR(S): ADDRESSEE(S):

Thomas Eaton/State of Washington	Boomsnub Corp.
DESCRIPTION: Letter and Order No. DE 88-S239 notice of Penalty Incurred and Due.	

1. 1. . . Vol. 1 - 1037029 DOC ID: 35187 IMAGED
DATE: 1/13/93 PAGES: 10
AUTHOR(S): Unknown ADDRESSEE(S): Unknown
DESCRIPTION: Group of worksheets describing sampling events done at Boomsnub.

1. 2. . . Vol. 1 - 1037044 DOC ID: 35194 IMAGED
DATE: PAGES: 2
AUTHOR(S): ADDRESSSEE(S):
Shapiro & Associates JRB Associates
DESCRIPTION: Attachment B, RCRA Section 3012 Preliminary Assessment Program Land Use and Demography.

1. 2. . . Vol. 1 - 1037048 DOC ID: 35198 IMAGED
DATE: PAGES: 1
AUTHOR(S): Engineering Technician Services ADDRESSEE(S): Unknown
DESCRIPTION: Well grid map.

1. 2. . . Vol. 1 - 1037048 DOC ID: 35198 IMAGED
DATE: 3/19/81 PAGES: 2
AUTHOR(S): State of Washington Dept. of Ecology ADDRESSEE(S): Brett Unknown/Unknown
DESCRIPTION: Inspection Report.

5

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

1. 2. . . Vol. 1 - 1037050 DOC ID: 35200 IMAGED
DATE: 6/22/81 PAGES: 1
AUTHOR(S): ADDRESSSEE(S):
Brett Betts/State of Washington Unknown
DESCRIPTION: Photo looking east at back of PNW Plating building.

1. 2. . . Vol. 1 - 1037051 DOC ID: 35201 IMAGED
DATE: 4/28/82 PAGES: 1
AUTHOR(S): ADDRESSSEE(S):
Eric Egbers/Washington State Department of Ecology Jim Unknown/Unknown
DESCRIPTION: Inspection Report.

1. 2. . . Vol. 1 - 1037052 DOC ID: 35202 IMAGED
DATE: 6/7/82 PAGES: 4
AUTHOR(S): ADDRESSSEE(S):
Eric Egbers/Washington State Department of Ecology Unknown
DESCRIPTION: Inspection Report with attached Environmental Laboratory Data Summary reports.

1. 2. . . Vol. 1 - 1037053 DOC ID: 35203 IMAGED
DATE: 9/1/83 PAGES: 2
AUTHOR(S): ADDRESSSEE(S):
Eric Egbers/Washington State Department of Ecology Frank Unknown/Unknown
DESCRIPTION: Inspection Report.

1. 2. . . Vol. 1 - 1037039 DOC ID: 35189 IMAGED
DATE: 5/24/85 PAGES: 1
AUTHOR(S): ADDRESSSEE(S):
EPA Unknown
DESCRIPTION: Potential Hazardous Waste Site Preliminary Assessment Summary Memorandum.

1. 2. . . Vol. 1 - 1037040 DOC ID: 35190 IMAGED
DATE: 5/24/85 PAGES: 1
AUTHOR(S): ADDRESSSEE(S):
EPA Unknown
DESCRIPTION: Potential Hazardous Waste Site Preliminary Assessment Part 1 - Site Information and Assessment.

1. 2. . . Vol. 1 - 1037041 DOC ID: 35191 IMAGED
DATE: 5/24/85 PAGES: 1
AUTHOR(S): ADDRESSSEE(S):
EPA Unknown
DESCRIPTION: Potential Hazardous Waste Site Preliminary Assessment Part 2 - Waste Information.

1. 2. . . Vol. 1 - 1037042 DOC ID: 35192 IMAGED
DATE: 5/24/85 PAGES: 2
AUTHOR(S): ADDRESSSEE(S):
EPA Unknown
DESCRIPTION: Potential Hazardous Waste Site Preliminary Assessment Part 3 - Description of Hazardous Conditions & Incidents.

1. 2. . . Vol. 1 - 1037043 DOC ID: 35193 IMAGED
DATE: 5/24/85 PAGES: 1
AUTHOR(S): ADDRESSSEE(S):
Unknown Unknown
DESCRIPTION: USGS quadrant map of site assessment area.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

1. 2. . . . Vol. 1 - 1037038 DOC ID: 35188 IMAGED

DATE: 8/9/85 PAGES: 2

AUTHOR(S): ADDRESSEE(S):

Robert E. Kievit/EPA EPA

DESCRIPTION: Potential Hazardous Waste Site disposition form assigning medium priority to sampling soil and groundwater.

SUB-HEAD: 1. 3. . . . Vol. 1 - Site Inspection Report

1. 3. . . . Vol. 1 - 1037055 DOC ID: 35204 IMAGED

DATE: 3/1/87 PAGES: 127

AUTHOR(S): ADDRESSEE(S):

Michael J. Spencer/WDOE Unknown

DESCRIPTION: Phase I & II Site Inspection Report; contains material indexed in Sections 1.1 and 1.2

1. 3. . . . Vol. 1 - 1037348 DOC ID: 35721 IMAGED

DATE: 4/1/94 PAGES: 47

AUTHOR(S): ADDRESSEE(S):

Ann Williamson/EPA Chris Field/EPA

DESCRIPTION: Quality Assurance Sampling Plan.

1. 3. . . . Vol. 1 - 1030276 DOC ID: 67471 IMAGED

DATE: 11/30/95 PAGES: 379

AUTHOR(S): ADDRESSEE(S):

William L. Carberry/Ecology & Environment, Inc. Chris D. Field/EPA

DESCRIPTION: Site Assessment Report.

SUB-HEAD: 1. 4. . . . Vol. 1 - RCRA Compliance Evaluation Inspection

1. 4. . . . Vol. 1 - 1037054 DOC ID: 35205 IMAGED

DATE: 12/1/88 PAGES: 115

AUTHOR(S): ADDRESSEE(S):

Jacobs Engineering EPA

DESCRIPTION: Final Report; RCRA Compliance Evaluation Inspection.

NOTE: Document is located in Boomsnub Removal Administrative Record, Section 1.2.

SUB-HEAD: 1. 5. . . . Vol. 1 - Sampling & Well Log Data

1. 5. . . . Vol. 1 - 1037056 DOC ID: 35206 IMAGED

DATE: PAGES: 13

AUTHOR(S): ADDRESSEE(S):

Washington Department of Conservation Unknown

DESCRIPTION: Well logs dated 1939 through 10/7/68.

1. 5. . . . Vol. 1 - 1037057 DOC ID: 35207 IMAGED

DATE: PAGES: 30

AUTHOR(S): ADDRESSEE(S):

State of Washington Unknown

DESCRIPTION: Water well reports dated 2/10/71 through 8/13/82.

1. 5. . . . Vol. 1 - 1037058 DOC ID: 35208 IMAGED

DATE: 2/9/83 PAGES: 2

AUTHOR(S): ADDRESSEE(S):

State of Washington Dept. of Ecology Unknown

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Olympia Environmental Laboratory Data Summary Report.

1. 5. . . . Vol. 1 - 1037059 DOC ID: 35209 IMAGED
DATE: 3/20/85 PAGES: 4
AUTHOR(S): - ADDRESSEE(S):
State of Washington Unknown
DESCRIPTION: Public Water Supply System Listing.

1. 5. . . . Vol. 1 - 1037062 DOC ID: 35212 IMAGED
DATE: 1/1/87 PAGES: 1
AUTHOR(S): Riedel Environmental Services ADDRESSEE(S):
Unknown
DESCRIPTION: Table 2 "Total Chromium in Soil."

1. 5. . . . Vol. 1 - 1037060 DOC ID: 35210 IMAGED
DATE: 7/10/87 PAGES: 44
AUTHOR(S): Riedel Environmental Services ADDRESSEE(S):
Unknown
DESCRIPTION: Field Investigation Report for Pacific Northwest Plating.

NOTE: Document is located in Boomsnub Removal Administrative Record, Section 1.2.

1. 5. . . . Vol. 1 - 1037061 DOC ID: 35211 IMAGED
DATE: 5/2/88 PAGES: 4
AUTHOR(S): Ecology & Environment, Inc. ADDRESSEE(S):
Unknown
DESCRIPTION: Logbook of phone conversations regarding site.

1. 5. . . . Vol. 1 - 1037063 DOC ID: 35213 IMAGED
DATE: 1/30/90 PAGES: 11
AUTHOR(S): Dames & Moore ADDRESSEE(S):
Unknown
DESCRIPTION: Report: Installation and Sampling of Monitoring Well MW-5.

1. 5. . . . Vol. 1 - 1037064 DOC ID: 35214 IMAGED
DATE: 8/10/90 PAGES: 12
AUTHOR(S): Dames & Moore ADDRESSEE(S):
Unknown
DESCRIPTION: Report: Installation and Sampling of Monitoring Well MW-5B.

1. 5. . . . Vol. 1 - 1037066 DOC ID: 35216 IMAGED
DATE: 5/31/91 PAGES: 2
AUTHOR(S): PTI Environmental Services ADDRESSEE(S):
Unknown
DESCRIPTION: Table 15 Soil Analysis Summary.

1. 5. . . . Vol. 1 - 1037065 DOC ID: 35215 IMAGED
DATE: 7/11/91 PAGES: 1
AUTHOR(S): PTI Environmental Services ADDRESSEE(S):
Unknown
DESCRIPTION: Figure 3: Total chromium.

1. 5. . . . Vol. 1 - 1037067 DOC ID: 35217 IMAGED
DATE: 1/1/92 PAGES: 1
AUTHOR(S): Science Applications International Corporation ADDRESSEE(S):
Unknown

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Table 4-2 Summary of Soil Sampling Analytical Results.

1. 5. . . . Vol. 1 - 1037068 DOC ID: 35218 IMAGED
DATE: 1/1/93 PAGES: 2
AUTHOR(S): Science Applications International Corporation ADDRESSEE(S): Unknown

DESCRIPTION: Table 3 Total Chromium Concentrations in Soil Samples Collected During Drilling.

1. 5. . . . Vol. 1 - 1037069 DOC ID: 35219 IMAGED
DATE: 1/20/95 PAGES: 4
AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Harold Anderson/Unknown

DESCRIPTION: Letter regarding results of testing of well water for Chromium and VOCs.

SUB-HEAD: 1. 6. . . . Vol. 1 - NPL Documentation

1. 6. . . . Vol. 1 - 1037070 DOC ID: 35220 IMAGED
DATE: 1/1/94 PAGES: 6
AUTHOR(S): EPA ADDRESSEE(S): Unknown

DESCRIPTION: National Priorities List, letters requesting addition of Boomsnub to NPL, and Fact Sheet on Boomsnub.

1. 6. . . . Vol. 1 - 1037071 DOC ID: 35222 IMAGED
DATE: 1/18/94 PAGES: 7
AUTHOR(S): EPA ADDRESSEE(S): Unknown

DESCRIPTION: Federal Register Vol. 59, No. 11: National Priorities List for Uncontrolled Hazardous Waste Sites, Proposed Rule No. 16.

1. 6. . . . Vol. 1 - 1037072 DOC ID: 35223 IMAGED
DATE: 3/17/94 PAGES: 10
AUTHOR(S): James Merriam/Airco Gases ADDRESSEE(S): EPA

DESCRIPTION: Letter to EPA Docket Office requesting that Airco and Boomsnub be considered separately on the NPL listing.

1. 6. . . . Vol. 1 - 1037073 DOC ID: 35224 IMAGED
DATE: 5/9/94 PAGES: 3
AUTHOR(S): David B. Jansen/State of Washington Dept. of Ecology ADDRESSEE(S): EPA

DESCRIPTION: Letter to EPA Docket Office disagreeing with Airco's letter and stating why it should be included on the NPL listing.

1. 6. . . . Vol. 1 - 1037074 DOC ID: 35225 IMAGED
DATE: 4/1/95 PAGES: 1
AUTHOR(S): EPA ADDRESSEE(S): Unknown

DESCRIPTION: NPL listing for Boomsnub/Airco.

1. 6. . . . Vol. 1 - 1037075 DOC ID: 35227 IMAGED
DATE: 4/1/95 PAGES: 17
AUTHOR(S): EPA ADDRESSEE(S): Unknown

DESCRIPTION: Support Document for the Revised National Priorities List Final Rule.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

1. 6. . . Vol. 1 - 1037076 DOC ID: 35230 IMAGED
DATE: 4/17/95 PAGES: 1
AUTHOR(S): Mike Lowry/State of Washington ADDRESSEE(S): Carol Browner/EPA
DESCRIPTION: Letter supporting NPL listing for Boomsnub/Airco.

1. 6. . . Vol. 1 - 1037077 DOC ID: 35231 IMAGED
DATE: 4/25/95 PAGES: 25
AUTHOR(S): EPA ADDRESSEE(S): Unknown
DESCRIPTION: Federal Register: National Priorities List for Uncontrolled Hazardous Waste Sites - Final Rule.

SUB-HEAD: 1. 7. . . Vol. 1 - Treatment Technology Alternatives Evaluation

1. 7. . . Vol. 1 - 1037078 DOC ID: 35232 IMAGED
DATE: 5/1/94 PAGES: 22
AUTHOR(S): Ecology & Environment, Inc. ADDRESSEE(S): Chris D. Field/EPA
DESCRIPTION: Report: Evaluation of Treatment Technology Alternatives for the Removal/Remediation of Chromium Contaminated Soil.

1. 7. . . Vol. 1 - 1037097 DOC ID: 35251 IMAGED
DATE: 5/20/94 PAGES: 1
AUTHOR(S): William L. Carberry/Ecology & Environment, Inc. ADDRESSEE(S): Chris D. Field/EPA
DESCRIPTION: Letter regarding Treatment Technologies Evaluation Report for treatment of contaminated soils.

1. 7. . . Vol. 1 - 1037099 DOC ID: 35253 IMAGED
DATE: 7/20/94 PAGES: 3
AUTHOR(S): Sherwood T. Cutler/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Pros and cons of water treatment options.

1. 7. . . Vol. 1 - 1037100 DOC ID: 35254 IMAGED
DATE: 7/21/94 PAGES: 3
AUTHOR(S): Sherwood T. Cutler/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Cost Estimates for water treatment options.

1. 7. . . Vol. 1 - 1037101 DOC ID: 35255 IMAGED
DATE: 7/25/94 PAGES: 21
AUTHOR(S): Rick Roehl/Ecology & Environment, Inc. ADDRESSEE(S): Chris D. Field/EPA
DESCRIPTION: Report: Evaluation of Treatment Alternatives for Removal of Hexvalent Chromium and Volatile Organic Compounds from Groundwater at the Boomsnub Site.

1. 7. . . Vol. 1 - 1037102 DOC ID: 35256 IMAGED
DATE: 7/28/94 PAGES: 13
AUTHOR(S): CET Environmental Services ADDRESSEE(S): Thor Cutler/EPA
DESCRIPTION: Report: Design Development, 100 GPM Ion Exchange System for Removal of Hexvalent Chrome from Groundwater at the Boomsnub Site.

1. 7. . . Vol. 1 - 1030133 DOC ID: 42607 IMAGED
DATE: 8/1/94 PAGES: 23
AUTHOR(S): William L. Carberry/Ecology & Environment, Inc. ADDRESSEE(S): Chris D. Field/EPA

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Cover letter and Engineering Evaluation and Cost Analysis of Boomsnub Groundwater Treatment System.

1. 7. . . . Vol. 1 - 1037103 DOC ID: 35257 IMAGED

DATE: 8/31/94 - PAGES: 11

AUTHOR(S): **ADDRESSEE(S):**

Rick Roehl/Ecology & Environment, Inc. Unknown

DESCRIPTION: Memorandum regarding Boomsnub treatability studies and attached sampling results from Andco Environmental Processes, Inc.

1. 7. . . . Vol. 1 - 1037098 DOC ID: 35252 IMAGED

DATE: 10/14/94 PAGES: 7

AUTHOR(S): **ADDRESSEE(S):**

Ecology & Environment, Inc. Unknown

DESCRIPTION: Proposed plans and Cost Analysis, Groundwater Extraction Network Expansion.

SUB-HEAD: 1. 8. . . . Vol. 1 - Groundwater Monitoring Reports

1. 8. . . . Vol. 1 - 1037597 DOC ID: 40507 IMAGED

DATE: 4/1/92 PAGES: 19

AUTHOR(S): **ADDRESSEE(S):**

Science Applications International Corporation State of Washington Dept. of Ecology

DESCRIPTION: 4/92 Groundwater Monitoring Report.

NOTE: Document is located in Boomsnub Removal Administrative Record, Section 1.3

1. 8. . . . Vol. 1 - 1037598 DOC ID: 40508 IMAGED

DATE: 3/16/94 PAGES: 53

AUTHOR(S): **ADDRESSEE(S):**

Science Applications International Corporation State of Washington Dept. of Ecology

DESCRIPTION: 1/94 Groundwater Monitoring Report.

1. 8. . . . Vol. 1 - 1037599 DOC ID: 40509 IMAGED

DATE: 4/7/94 PAGES: 51

AUTHOR(S): **ADDRESSEE(S):**

Science Applications International Corporation State of Washington Dept. of Ecology

DESCRIPTION: 2/94 Groundwater Monitoring Report.

NOTE: Document is located in Boomsnub Removal Administrative Record, Section 1.3.

1. 8. . . . Vol. 1 - 1037600 DOC ID: 40510 IMAGED

DATE: 4/28/94 PAGES: 59

AUTHOR(S): **ADDRESSEE(S):**

Science Applications International Corporation State of Washington Dept. of Ecology

DESCRIPTION: 3/94 Groundwater Monitoring Report.

1. 8. . . . Vol. 1 - 1037601 DOC ID: 40511 IMAGED

DATE: 6/22/94 PAGES: 47

AUTHOR(S): **ADDRESSEE(S):**

Science Applications International Corporation State of Washington Dept. of Ecology

DESCRIPTION: 4/94 Groundwater Monitoring Report.

1. 8. . . . Vol. 1 - 1037602 DOC ID: 40512 IMAGED

DATE: 8/5/94 PAGES: 38

AUTHOR(S): **ADDRESSEE(S):**

Science Applications International Corporation State of Washington Dept. of Ecology

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: 6/94 Groundwater Monitoring Report.

1. 8. . . Vol. 1 - 1037603 DOC ID: 40513 IMAGED
DATE: 9/12/94 PAGES: 27

AUTHOR(S): - ADDRESSEE(S):
Science Applications International Corporation State of Washington Dept. of Ecology
DESCRIPTION: 7/94 Groundwater Monitoring Report.

1. 8. . . Vol. 1 - 1037604 DOC ID: 40514 IMAGED
DATE: 10/10/94 PAGES: 49

AUTHOR(S): Science Applications International Corporation ADDRESSEE(S):
State of Washington Dept. of Ecology
DESCRIPTION: 8/94 Groundwater Monitoring Report.

1. 8. . . Vol. 1 - 1037605 DOC ID: 41051 IMAGED
DATE: 11/ 1/94 PAGES: 27

AUTHOR(S): SAIC, Inc. ADDRESSEE(S):
EPA
DESCRIPTION: 9/10 Groundwater Monitoring Report.

1. 8. . . Vol. 1 - 1037606 DOC ID: 40516 IMAGED
DATE: 12/ 5/94 PAGES: 51

AUTHOR(S): Science Applications International Corporation ADDRESSEE(S):
State of Washington Dept. of Ecology
DESCRIPTION: 10/94 Groundwater Monitoring Report.

1. 8. . . Vol. 1 - 1037607 DOC ID: 40517 IMAGED
DATE: 1/ 1/95 PAGES: 26

AUTHOR(S): Science Applications International Corporation ADDRESSEE(S):
State of Washington Dept. of Ecology
DESCRIPTION: 11/94 Groundwater Monitoring Report.

1. 8. . . Vol. 1 - 1037608 DOC ID: 40518 IMAGED
DATE: 2/21/95 PAGES: 27

AUTHOR(S): Science Applications International Corporation ADDRESSEE(S):
State of Washington Dept. of Ecology
DESCRIPTION: 12/94 Groundwater Monitoring Report.

SUB-HEAD: 1. 9. . . Vol. 1 - State of Washington Reports

SUB-HEAD: 1. 9. 1. . Vol. 1 - Hydrogeologic Investigations

1. 9. 1. . Vol. 1 - 1037610 DOC ID: 40519 IMAGED
DATE: 4/ 1/91 PAGES: 71

AUTHOR(S): ICF Technology, Inc. ADDRESSEE(S):
State of Washington Dept. of Ecology
DESCRIPTION: Recommended Expedited Interim Actions.

NOTE: Document is located in Boomsnub Removal Administrative Record, Section 1.2.

SUB-HEAD: 1. 9. 2. . Vol. 1 - Interim Actions & Work Plans

1. 9. 2. . Vol. 1 - 1037612 DOC ID: 40520 IMAGED
DATE: 4/ 1/91 PAGES: 88

AUTHOR(S): ICF Technology, Inc. ADDRESSEE(S):
State of Washington Dept. of Ecology

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Results of Hydrogeologic Investigations, Vol. 1 of 2.

NOTE: Document is located in Boomsnub Removal Administrative Record, Section 1.2.

1. 9. 2. . Vol. 1 - -1037613 DOC ID: 40521 IMAGED
DATE: 5/1/91 PAGES: 30
AUTHOR(S): ICF Technology, Inc. **ADDRESSEE(S):** State of Washington Dept. of Ecology.
DESCRIPTION: Performance Specifications and Statement of Work for Packed Tower Air Stripper with Vapor-phase Carbon Unit and Air Delivery System.

NOTE: Document is located in Boomsnub Removal Administrative Record, Section 1.2.

1. 9. 2. . Vol. 1 - 1037611 DOC ID: 40522 IMAGED
DATE: 7/14/92 PAGES: 153
AUTHOR(S): Science Applications International Corporation **ADDRESSEE(S):** State of Washington Dept. of Ecology
DESCRIPTION: Final Project Report on Interim Action on Monitoring Well Installation.

NOTE: Document is located in Boomsnub Removal Administrative Record, Section 1.3.

1. 9. 2. . Vol. 1 - 1037614 DOC ID: 40523 IMAGED
DATE: 1/18/94 PAGES: 4
AUTHOR(S): Unknown **ADDRESSEE(S):** Unknown
DESCRIPTION: Scope of Work for Continuation of Groundwater Monitoring.

1. 9. 2. . Vol. 1 - 1037615 DOC ID: 40524 IMAGED
DATE: 2/22/94 PAGES: 24
AUTHOR(S): Science Applications International Corporation **ADDRESSEE(S):** State of Washington Dept. of Ecology
DESCRIPTION: Final Work Plan for Soil Boring Installations.

1. 9. 2. . Vol. 1 - 1037503 DOC ID: 40227 IMAGED
DATE: 6/27/94 PAGES: 10
AUTHOR(S): State of Washington Dept. of Ecology **ADDRESSEE(S):** City of Vancouver
DESCRIPTION: Boomsnub Ground Water Treatment System Engineering Report.

SUB-HEAD: 1. 9. 3. . Vol. 1 - Groundwater Well Installation

1. 9. 3. . Vol. 1 - 1037616 DOC ID: 40525 IMAGED
DATE: 3/1/93 PAGES: 107
AUTHOR(S): Science Applications International Corporation **ADDRESSEE(S):** State of Washington Dept. of Ecology
DESCRIPTION: Draft Three-Dimensional Groundwater Flow Modeling to Optimize Extraction System Efficiency Report.

1. 9. 3. . Vol. 1 - 1037617 DOC ID: 40526 IMAGED
DATE: 5/14/93 PAGES: 619
AUTHOR(S): Science Applications International Corporation **ADDRESSEE(S):** State of Washington Dept. of Ecology
DESCRIPTION: Summary Report on Groundwater Monitoring Well Installations.

NOTE: Document is located in Boomsnub Removal Administrative Record, Section 1.3.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

1. 9. 3. . Vol. 1 - 1037618 DOC ID: 40527 IMAGED
DATE: 11/5/93 PAGES: 227
AUTHOR(S): Science Applications International Corporation ADDRESSEE(S): State of Washington Dept. of Ecology
DESCRIPTION: Summary Report on Groundwater Monitoring Well Installations.

NOTE: Document is located in Boomsnub Removal Administrative Record, Section 1.3.

1. 9. 3. . Vol. 1 - 1037619 DOC ID: 40528 IMAGED
DATE: 2/11/94 PAGES: 205
AUTHOR(S): Science Applications International Corporation ADDRESSEE(S): State of Washington Dept. of Ecology
DESCRIPTION: Groundwater Treatment System Engineering Report and Operation Manual.

1. 9. 3. . Vol. 1 - 1037620 DOC ID: 40529 IMAGED
DATE: 9/28/94 PAGES: 9
AUTHOR(S): Dan Alexanian/WDOE ADDRESSEE(S): Thor Cutler/EPA
DESCRIPTION: Draft proposal for suggested pump rates for network wells.

1. 9. 3. . Vol. 1 - 1037621 DOC ID: 40530 IMAGED
DATE: 9/30/94 PAGES: 7
AUTHOR(S): Bruce Wilson/Ecology & Environment ADDRESSEE(S): John Roland/Ecology & Environment, Inc.
DESCRIPTION: Analytical flow models.

1. 9. 3. . Vol. 1 - 1037622 DOC ID: 40531 IMAGED
DATE: 9/30/94 PAGES: 10
AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Thor Cutler/EPA
DESCRIPTION: Letter and three pumping scenarios and associated capture plots.

1. 9. 3. . Vol. 1 - 1037623 DOC ID: 40532 IMAGED
DATE: 9/30/94 PAGES: 6
AUTHOR(S): Bruce Wilson/Ecology & Environment ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.
DESCRIPTION: Revised well models.

SUB-HEAD: 1. 11. . . Vol. 1 - Removal Activities

SUB-HEAD: 1. 11. 2. . Vol. 1 - Action Memoranda

1. 11. 2. . Vol. 1 - 1037156 DOC ID: 35313 IMAGED
DATE: 5/13/94 PAGES: 51
AUTHOR(S): Sherwood T. Cutler/EPA ADDRESSEE(S): Chuck Clarke/EPA
DESCRIPTION: Action Memorandum requesting approval for a proposed removal action and exemption from the 2 million dollar statutory limit.

1. 11. 2. . Vol. 1 - 1037157 DOC ID: 35314 IMAGED
DATE: 9/9/94 PAGES: 17
AUTHOR(S): Sherwood T. Cutler/EPA ADDRESSEE(S): Randall F. Smith/EPA
DESCRIPTION: Action memorandum requesting a ceiling increase and exemption to the 2 million dollar limit.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

1. 11. 2. . Vol. 1 - 1030631 DOC ID: 70601 IMAGED
DATE: 9/14/94 PAGES: 2
AUTHOR(S): Mary B. Hayes/Washington Dept. of Ecology ADDRESSEE(S): Thor Cutler/EPA
DESCRIPTION: Comments regarding Draft CET Report - Boomsnub Treatment System Evaluation.

1. 11. 2. . Vol. 1 - 1037158 DOC ID: 35315 IMAGED
DATE: 9/22/94 PAGES: 16
AUTHOR(S): Sherwood T. Cutler/EPA ADDRESSEE(S): Chuck Clarke/EPA
DESCRIPTION: Action memorandum requesting a ceiling increase and exemption to the 2 million dollar limit.

1. 11. 2. . Vol. 1 - 1037159 DOC ID: 35316 IMAGED
DATE: 8/7/95 PAGES: 17
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S): Chuck Clarke/EPA
DESCRIPTION: Action memorandum requesting a combined ceiling increase and 12-month limit extension.

SUB-HEAD: 1. 11. 3. . Vol. 1 - Operation Observations/Sump Lining Reports

1. 11. 3. . Vol. 1 - 1037160 DOC ID: 35317 IMAGED
DATE: 6/5/94 PAGES: 1
AUTHOR(S): Michael A. Stanaszek/Landau Associates, Inc. ADDRESSEE(S): Unknown
DESCRIPTION: Sump lining hydrotest report.

1. 11. 3. . Vol. 1 - 1037161 DOC ID: 35318 IMAGED
DATE: 6/7/94 PAGES: 2
AUTHOR(S): Michael A. Stanaszek/Landau Associates, Inc. ADDRESSEE(S): Unknown
DESCRIPTION: Sump lining hydrotest report.

1. 11. 3. . Vol. 1 - 1037162 DOC ID: 35319 IMAGED
DATE: 6/13/94 PAGES: 4
AUTHOR(S): Kris Hendrickson/Landau Associates, Inc. ADDRESSEE(S): Thor Cutler/EPA
DESCRIPTION: Operations Observation Reports for sump lining project.

1. 11. 3. . Vol. 1 - 1037163 DOC ID: 35320 IMAGED
DATE: 6/17/94 PAGES: 2
AUTHOR(S): Todd J. Keithahn/Landau Associates, Inc. ADDRESSEE(S): Thor Cutler/EPA
DESCRIPTION: Operations Observation Reports for sump lining project.

1. 11. 3. . Vol. 1 - 1037164 DOC ID: 35321 IMAGED
DATE: 6/21/94 PAGES: 2
AUTHOR(S): Kris Hendrickson/Landau Associates, Inc. ADDRESSEE(S): Thor Cutler/EPA
DESCRIPTION: Operations Observation Reports for sump lining project.

1. 11. 3. . Vol. 1 - 1037165 DOC ID: 35322 IMAGED
DATE: 6/22/94 PAGES: 2
AUTHOR(S): Kris Hendrickson/Landau Associates, Inc. ADDRESSEE(S): Thor Cutler/EPA

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: PVC Pipeline and Fitting Observation Report.

1. 11. 3. . Vol. 1 - 1037166 DOC ID: 35323 IMAGED
DATE: 6/22/94 PAGES: 2
AUTHOR(S): - ADDRESSEE(S):
Kris Hendrickson/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Reports for sump lining project.

1. 11. 3. . Vol. 1 - 1037167 DOC ID: 35325 IMAGED
DATE: 6/23/94 PAGES: 2
AUTHOR(S): - ADDRESSEE(S):
Kris Hendrickson/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037168 DOC ID: 35326 IMAGED
DATE: 6/24/94 PAGES: 2
AUTHOR(S): - ADDRESSEE(S):
Kris Hendrickson/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037169 DOC ID: 35327 IMAGED
DATE: 6/27/94 PAGES: 3
AUTHOR(S): - ADDRESSEE(S):
Mike Stanaszek/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037170 DOC ID: 35328 IMAGED
DATE: 6/28/94 PAGES: 2
AUTHOR(S): - ADDRESSEE(S):
Kris Hendrickson/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037171 DOC ID: 35329 IMAGED
DATE: 6/29/94 PAGES: 2
AUTHOR(S): - ADDRESSEE(S):
Kris Hendrickson/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037172 DOC ID: 35330 IMAGED
DATE: 6/30/94 PAGES: 2
AUTHOR(S): - ADDRESSEE(S):
Kris Hendrickson/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037173 DOC ID: 35331 IMAGED
DATE: 7/1/94 PAGES: 2
AUTHOR(S): - ADDRESSEE(S):
Kris Hendrickson/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037174 DOC ID: 35332 IMAGED
DATE: 7/6/94 PAGES: 2
AUTHOR(S): - ADDRESSEE(S):
Kris Hendrickson/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. .	Vol. 1 -	1037175	DOC ID:	35333	IMAGED
DATE:	7/7/94		PAGES:	2	
AUTHOR(S):			ADDRESSEE(S):		
Kris Hendrickson/Landau Associates, Inc.			Thor Cutler/EPA		
DESCRIPTION: Operations Observation Report for sump lining project.					
1. 11. 3. .	Vol. 1 -	1037176	DOC ID:	35334	IMAGED
DATE:	7/8/94		PAGES:	3	
AUTHOR(S):			ADDRESSEE(S):		
Kris Hendrickson/Landau Associates, Inc.			Thor Cutler/EPA		
DESCRIPTION: Operations Observation Report for sump lining project.					
1. 11. 3. .	Vol. 1 -	1037177	DOC ID:	35335	IMAGED
DATE:	7/11/94		PAGES:	3	
AUTHOR(S):			ADDRESSEE(S):		
Kris Hendrickson/Landau Associates, Inc.			Thor Cutler/EPA		
DESCRIPTION: Operations Observation Report for sump lining project.					
1. 11. 3. .	Vol. 1 -	1037178	DOC ID:	35336	IMAGED
DATE:	7/12/94		PAGES:	2	
AUTHOR(S):			ADDRESSEE(S):		
Kris Hendrickson/Landau Associates, Inc.			Thor Cutler/EPA		
DESCRIPTION: Operations Observation Report for sump lining project.					
1. 11. 3. .	Vol. 1 -	1037179	DOC ID:	35337	IMAGED
DATE:	7/13/94		PAGES:	2	
AUTHOR(S):			ADDRESSEE(S):		
Mike Stanaszek/Landau Associates, Inc.			Thor Cutler/EPA		
DESCRIPTION: Operations Observation Report for sump lining project.					
1. 11. 3. .	Vol. 1 -	1037180	DOC ID:	35338	IMAGED
DATE:	7/14/94		PAGES:	2	
AUTHOR(S):			ADDRESSEE(S):		
Mike Stanaszek/Landau Associates, Inc.			Thor Cutler/EPA		
DESCRIPTION: Operations Observation Report for sump lining project.					
1. 11. 3. .	Vol. 1 -	1037181	DOC ID:	35339	IMAGED
DATE:	7/14/94		PAGES:	2	
AUTHOR(S):			ADDRESSEE(S):		
Mike Stanaszek/Landau Associates, Inc.			Thor Cutler/EPA		
DESCRIPTION: Operations Observation Report for sump lining project.					
1. 11. 3. .	Vol. 1 -	1037182	DOC ID:	35340	IMAGED
DATE:	7/15/94		PAGES:	2	
AUTHOR(S):			ADDRESSEE(S):		
Mike Stanaszek/Landau Associates, Inc.			Thor Cutler/EPA		
DESCRIPTION: Operations Observation Report for sump lining project.					
1. 11. 3. .	Vol. 1 -	1037183	DOC ID:	35341	IMAGED
DATE:	7/18/94		PAGES:	3	
AUTHOR(S):			ADDRESSEE(S):		
Mike Stanaszek/Landau Associates, Inc.			Thor Cutler/EPA		
DESCRIPTION: Operations Observation Report for sump lining project.					
1. 11. 3. .	Vol. 1 -	1037184	DOC ID:	35342	IMAGED
DATE:	7/19/94		PAGES:	2	
AUTHOR(S):			ADDRESSEE(S):		

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

Mike Stanaszek/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037185 DOC ID: 35343 IMAGED
DATE: 7/20/94 - PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Mike Stanaszek/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037186 DOC ID: 35344 IMAGED
DATE: 7/21/94 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Mike Stanaszek/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037187 DOC ID: 35345 IMAGED
DATE: 7/22/94 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Mike Stanaszek/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037188 DOC ID: 35346 IMAGED
DATE: 7/25/94 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Mike Stanaszek/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037189 DOC ID: 35347 IMAGED
DATE: 7/25/94 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Mike Stanaszek/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037190 DOC ID: 35348 IMAGED
DATE: 7/27/94 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Mike Stanaszek/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037191 DOC ID: 35349 IMAGED
DATE: 7/28/94 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Mike Stanaszek/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1037192 DOC ID: 35350 IMAGED
DATE: 7/29/94 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Mike Stanaszek/Landau Associates, Inc. Thor Cutler/EPA
DESCRIPTION: Operations Observation Report for sump lining project.

1. 11. 3. . Vol. 1 - 1030297 DOC ID: 41039 IMAGED
DATE: 4/24/95 PAGES: 3
AUTHOR(S): ADDRESSEE(S):
M. T. DeBettencourt/U. S. Coast Guard Thor Cutler/EPA

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Incident Summary Report Case # 024-94 carried out by Pacific Strike Team.

SUB-HEAD: 1. 11. 6. . Vol. 1 - Sampling Activities

1. 11. 6. . Vol. 1 - 4030194 DOC ID: 42790 IMAGED
DATE: 3/31/94 PAGES: 16

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Lila A. Transue/Sound Analytical Services

DESCRIPTION: Transmittal forms for information regarding TAT sampling and costs.

1. 11. 6. . Vol. 1 - 1037320 DOC ID: 35551 IMAGED
DATE: 4/28/94 PAGES: 17

AUTHOR(S): William L. Carberry/Ecology & Environment ADDRESSEE(S): Chris Field/EPA

DESCRIPTION: Draft maps and preliminary data tables to assist in preparing removal action memorandum.
NOTE: A/R includes first two pages only (cover letter and document list). Maps and tables are with document #35313, Section 1.11.2.

1. 11. 6. . Vol. 1 - 1030594 DOC ID: 70352 IMAGED
DATE: 5/17/94 PAGES: 8

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD #10-9403-009, Inorganic Data Quality Assurance Review of 1 water and 5 soil samples.

1. 11. 6. . Vol. 1 - 1030595 DOC ID: 70353 IMAGED
DATE: 5/17/94 PAGES: 18

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD #10-9403-009, Organic Data Quality Assurance Review of 1 water and 6 soil samples.

1. 11. 6. . Vol. 1 - 1030596 DOC ID: 70354 IMAGED
DATE: 5/27/94 PAGES: 53

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD #10-9403-009, Organic Data Quality Assurance Review of 1 water and 24 soil samples.

1. 11. 6. . Vol. 1 - 1030597 DOC ID: 70355 IMAGED
DATE: 5/31/94 PAGES: 17

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD #10-9403-009, Inorganic Data Quality Assurance Review of 1 sludge and 6 product samples.

1. 11. 6. . Vol. 1 - 1030598 DOC ID: 70356 IMAGED
DATE: 6/2/94 PAGES: 16

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD #10-9403-009, Inorganic Data Quality Assurance Review of 7 acid and 12 soil samples.

1. 11. 6. . Vol. 1 - 1030599 DOC ID: 70357 IMAGED
DATE: 6/8/94 PAGES: 163

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD #10-9403-009, Inorganic Data Quality Assurance Review of 3 water and 77 soil samples.

1. 11. 6. . Vol. 1 - 1030600 DOC ID: 70358 IMAGED

DATE: 6/ 8/94 PAGES: 21

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD #10-9403-009, Inorganic Data Quality Assurance Review of 1 water and 18 soil samples.

1. 11. 6. . Vol. 1 - 1030601 DOC ID: 70359 IMAGED

DATE: 6/ 8/94 PAGES: 42

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD #10-9403-009, Organic Data Quality Assurance Review of 1 water and 18 soil samples.

1. 11. 6. . Vol. 1 - 1037349 DOC ID: 35722 IMAGED

DATE: 6/16/94 PAGES: 46

AUTHOR(S):

William Carberry/Ecology & Environment

ADDRESSEE(S):

Chris Field/EPA

DESCRIPTION: Quality Assurance Sampling Plan.

1. 11. 6. . Vol. 1 - 1030527 DOC ID: 70277 IMAGED

DATE: 7/29/94 PAGES: 8

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008 Organic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 1 - 1030528 DOC ID: 70278 IMAGED

DATE: 8/ 1/94 PAGES: 3

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008 Organic Data Quality Assurance Review of 1 water sample.

1. 11. 6. . Vol. 1 - 1030529 DOC ID: 70279 IMAGED

DATE: 8/ 1/94 PAGES: 15

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Organic Data Quality Assurance Review of 6 soil samples.

1. 11. 6. . Vol. 1 - 1030530 DOC ID: 70280 IMAGED

DATE: 8/ 1/94 PAGES: 4

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 1 - 1030531 DOC ID: 70281 IMAGED

DATE: 8/ 1/94 PAGES: 4

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Inorganic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 1 - 1030532 DOC ID: 70282 IMAGED

DATE: 8/11/94 - PAGES: 7

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 1 - 1030533 DOC ID: 70283 IMAGED

DATE: 8/11/94 PAGES: 5

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Inorganic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 1 - 1030534 DOC ID: 70284 IMAGED

DATE: 8/11/94 PAGES: 9

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Inorganic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 1 - 1030535 DOC ID: 70285 IMAGED

DATE: 9/2/94 PAGES: 4

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-001, Inorganic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 1 - 1030536 DOC ID: 70286 IMAGED

DATE: 9/6/94 PAGES: 3

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-001, Inorganic Data Quality Assurance Review of 1 water sample.

1. 11. 6. . Vol. 1 - 1030537 DOC ID: 70287 IMAGED

DATE: 9/12/94 PAGES: 4

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Inorganic Data Quality Assurance Review of 1 water sample.

1. 11. 6. . Vol. 1 - 1030538 DOC ID: 70288 IMAGED

DATE: 9/22/94 PAGES: 11

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Inorganic Data Quality Assurance Review of 9 filter samples.

1. 11. 6. . Vol. 1 - 1030539 DOC ID: 70289 IMAGED

DATE: 9/22/94 PAGES: 10

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Inorganic Data Quality Assurance Review of 8 filter samples.

1. 11. 6. . Vol. 1 - 1030540 DOC ID: 70290 IMAGED
DATE: 9/22/94 PAGES: 11

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Inorganic Data Quality Assurance Review of 9 filter samples.

1. 11. 6. . Vol. 1 - 1030541 DOC ID: 70291 IMAGED
DATE: 9/22/94 PAGES: 11

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Inorganic Data Quality Assurance Review of 9 filter samples.

1. 11. 6. . Vol. 1 - 1030542 DOC ID: 70292 IMAGED
DATE: 9/22/94 PAGES: 11

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Inorganic Data Quality Assurance Review of 9 filter samples.

1. 11. 6. . Vol. 1 - 1030543 DOC ID: 70294 IMAGED
DATE: 9/22/94 PAGES: 11

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Inorganic Data Quality Assurance Review of 9 filter samples.

1. 11. 6. . Vol. 1 - 1030544 DOC ID: 70295 IMAGED
DATE: 9/23/94 PAGES: 3

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Inorganic Data Quality Assurance Review of 1 water sample.

1. 11. 6. . Vol. 1 - 1030545 DOC ID: 70296 IMAGED
DATE: 9/23/94 PAGES: 5

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Organic Data Quality Assurance Review of 1 water sample.

1. 11. 6. . Vol. 1 - 1030546 DOC ID: 70297 IMAGED
DATE: 9/28/94 PAGES: 6

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Inorganic Data Quality Assurance Review of 4 filter samples.

1. 11. 6. . Vol. 1 - 1030547 DOC ID: 70299 IMAGED
DATE: 9/28/94 PAGES: 4

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Inorganic Data Quality Assurance Review of 2 filter samples.

1. 11. 6. . Vol. 1 - 1030548 DOC ID: 70300 IMAGED
DATE: 9/30/94 PAGES: 8

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 1 - 1030549 DOC ID: 70301 IMAGED
DATE: 9/30/94 PAGES: 5

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9406-008, Inorganic Data Quality Assurance Review of 3 water samples.

SUB-HEAD: 1. 11. 6. . Vol. 2 - Sampling Activities

1. 11. 6. . Vol. 2 - 1030456 DOC ID: 70190 IMAGED
DATE: 10/17/94 PAGES: 3

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review.

1. 11. 6. . Vol. 2 - 1030457 DOC ID: 70191 IMAGED
DATE: 10/17/94 PAGES: 5

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-4910-022, Inorganic Data Quality Assurance Review of 3 soil samples.

1. 11. 6. . Vol. 2 - 1030458 DOC ID: 70192 IMAGED
DATE: 10/17/94 PAGES: 5

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 3 solid samples.

1. 11. 6. . Vol. 2 - 1030459 DOC ID: 70202 IMAGED
DATE: 10/17/94 PAGES: 9

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 5 filter samples.

1. 11. 6. . Vol. 2 - 1030460 DOC ID: 70205 IMAGED
DATE: 10/17/94 PAGES: 14

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 6 filter and 4 soil samples.

1. 11. 6. . Vol. 2 - 1030461 DOC ID: 70207 IMAGED
DATE: 10/17/94 PAGES: 7

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 2 - 1030550 DOC ID: 70303 IMAGED
DATE: 10/17/94 PAGES: 4

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 2 liquid samples.

1. 11. 6. . Vol. 2 - 1030551 DOC ID: 70304 IMAGED
DATE: 10/17/94 PAGES: 4

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 2 - 1030552 DOC ID: 70305 IMAGED
DATE: 10/17/94 PAGES: 4

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 2 - 1030553 DOC ID: 70306 IMAGED
DATE: 10/17/94 PAGES: 9

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 2 - 1030554 DOC ID: 70307 IMAGED
DATE: 10/17/94 PAGES: 13

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 2 liquid and 6 filter samples.

1. 11. 6. . Vol. 2 - 1030555 DOC ID: 70308 IMAGED
DATE: 10/18/94 PAGES: 6

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 2 - 1030556 DOC ID: 70309 IMAGED
DATE: 10/19/94 PAGES: 6

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 1 water and 3 soil samples.

1. 11. 6. . Vol. 2 - 1030557 DOC ID: 70310 IMAGED
DATE: 10/19/94 PAGES: 3

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 1 water sample.

1. 11. 6. . Vol. 2 - 1030462 DOC ID: 70209 IMAGED
DATE: 10/20/94 PAGES: 8

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 2 - 1030558 DOC ID: 70311 IMAGED
DATE: 10/20/94 PAGES: 4

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 2 - 1030559 DOC ID: 70312 IMAGED
DATE: 10/20/94 PAGES: 8

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9408-008, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 2 - 1030463 DOC ID: 70210 IMAGED
DATE: 10/24/94 PAGES: 15

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 2 soil and 8 filter samples.

1. 11. 6. . Vol. 2 - 1030560 DOC ID: 70313 IMAGED
DATE: 10/24/94 PAGES: 7

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 2 - 1030484 DOC ID: 70211 IMAGED
DATE: 10/26/94 PAGES: 5

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 2 - 1030485 DOC ID: 70212 IMAGED
DATE: 11/1/94 PAGES: 10

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 2 - 1030466 DOC ID: 70213 IMAGED
DATE: 11/1/94 PAGES: 7

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 2 - 1030561 DOC ID: 70314 IMAGED
DATE: 11/ 1/94 PAGES: 8

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 6 soil samples.

1. 11. 6. . Vol. 2 - 1030562 DOC ID: 70315 IMAGED
DATE: 11/ 1/94 PAGES: 11

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 4 air filter samples.

1. 11. 6. . Vol. 2 - 1030563 DOC ID: 70316 IMAGED
DATE: 11/ 1/94 PAGES: 5

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 2 - 1030564 DOC ID: 70317 IMAGED
DATE: 11/ 1/94 PAGES: 4

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 2 soil samples.

1. 11. 6. . Vol. 2 - 1030565 DOC ID: 70318 IMAGED
DATE: 11/ 1/94 PAGES: 12

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 9 air filter samples.

1. 11. 6. . Vol. 2 - 1030566 DOC ID: 70319 IMAGED
DATE: 11/ 1/94 PAGES: 4

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 2 - 1030567 DOC ID: 70320 IMAGED
DATE: 11/ 1/94 PAGES: 5

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 2 - 1030568 DOC ID: 70321 IMAGED
DATE: 11/ 1/94 PAGES: 14

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 9 air filter samples.

1. 11. 6. . Vol. 2 - 1030467 DOC ID: 70214 IMAGED
DATE: 11/2/94 PAGES: 3

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 1 filter sample.

1. 11. 6. . Vol. 2 - 1030468 DOC ID: 70215 IMAGED
DATE: 11/2/94 PAGES: 5

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 2 - 1030469 DOC ID: 70216 IMAGED
DATE: 11/2/94 PAGES: 7

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 2 - 1030714 DOC ID: 70322 IMAGED
DATE: 11/2/94 PAGES: 17

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 4 air filter samples.

1. 11. 6. . Vol. 2 - 1030569 DOC ID: 70323 IMAGED
DATE: 11/2/94 PAGES: 8

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 1 soil and 2 water samples.

1. 11. 6. . Vol. 2 - 1030570 DOC ID: 70324 IMAGED
DATE: 11/2/94 PAGES: 22

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 10 soil and 5 water samples.

1. 11. 6. . Vol. 2 - 1030571 DOC ID: 70325 IMAGED
DATE: 11/2/94 PAGES: 10

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 8 filter samples.

1. 11. 6. . Vol. 2 - 1030572 DOC ID: 70326 IMAGED
DATE: 11/2/94 PAGES: 5

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 2 - 1030470 DOC ID: 70217 IMAGED

DATE: 11/4/94 - PAGES: 8

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 6 sediment samples.

1. 11. 6. . Vol. 2 - 1030573 DOC ID: 70327 IMAGED

DATE: 11/4/94 PAGES: 5

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 2 - 1030574 DOC ID: 70328 IMAGED

DATE: 11/4/94 PAGES: 13

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 1 water and 10 soil samples.

1. 11. 6. . Vol. 2 - 1030575 DOC ID: 70329 IMAGED

DATE: 11/4/94 PAGES: 34

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 4 concrete and 28 soil samples.

1. 11. 6. . Vol. 2 - 1030576 DOC ID: 70330 IMAGED

DATE: 11/4/94 PAGES: 12

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 10 concrete samples.

1. 11. 6. . Vol. 2 - 1030577 DOC ID: 70331 IMAGED

DATE: 11/4/94 PAGES: 7

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 5 water samples.

1. 11. 6. . Vol. 2 - 1030471 DOC ID: 70218 IMAGED

DATE: 11/6/94 PAGES: 14

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 9 air filter samples.

1. 11. 6. . Vol. 2 - 1030472 DOC ID: 70219 IMAGED

DATE: 11/6/94 PAGES: 14

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 9 air filter samples.

1. 11. 6. . Vol. 2 - 1030473 DOC ID: 70220 IMAGED
DATE: 11/6/94 PAGES: 17

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 1 water, 7 air filter and 5 solid/soil/sediment samples.

1. 11. 6. . Vol. 2 - 1030578 DOC ID: 70333 IMAGED
DATE: 11/6/94 PAGES: 6

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 sorbent tube samples.

1. 11. 6. . Vol. 2 - 1030579 DOC ID: 70334 IMAGED
DATE: 11/6/94 PAGES: 16

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 7 air filter and 4 soil samples.

1. 11. 6. . Vol. 2 - 1030580 DOC ID: 70335 IMAGED
DATE: 11/6/94 PAGES: 10

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 8 air filter samples.

1. 11. 6. . Vol. 2 - 1030581 DOC ID: 70337 IMAGED
DATE: 11/16/94 PAGES: 14

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 9 filter and 3 water samples.

1. 11. 6. . Vol. 2 - 1030582 DOC ID: 70339 IMAGED
DATE: 11/16/94 PAGES: 16

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 9 air filter samples.

1. 11. 6. . Vol. 2 - 1030583 DOC ID: 70340 IMAGED
DATE: 11/16/94 PAGES: 17

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 9 air filter samples.

1. 11. 6. . Vol. 2 - 1030474 DOC ID: 70221 IMAGED
DATE: 11/17/94 PAGES: 4

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 2 - 1030475 DOC ID: 70222 IMAGED
DATE: 11/21/94 - PAGES: 12

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 10 soil samples.

1. 11. 6. . Vol. 2 - 1030476 DOC ID: 70223 IMAGED
DATE: 11/21/94 PAGES: 4

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 1 water sample.

1. 11. 6. . Vol. 2 - 1030477 DOC ID: 70224 IMAGED
DATE: 11/21/94 PAGES: 5

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 3 air filter samples.

1. 11. 6. . Vol. 2 - 1030478 DOC ID: 70225 IMAGED
DATE: 11/21/94 PAGES: 19

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 8 soil samples.

1. 11. 6. . Vol. 2 - 1030479 DOC ID: 70226 IMAGED
DATE: 11/21/94 PAGES: 11

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 8 soil samples.

1. 11. 6. . Vol. 2 - 1030480 DOC ID: 70227 IMAGED
DATE: 11/21/94 PAGES: 19

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 8 soil samples.

1. 11. 6. . Vol. 2 - 1030481 DOC ID: 70228 IMAGED
DATE: 11/21/94 PAGES: 19

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 8 soil samples.

1. 11. 6. . Vol. 2 - 1030482 DOC ID: 70229 IMAGED
DATE: 12/ 8/94 PAGES: 24

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 8 filter, 6 soil and 3 water samples.

1. 11. 6. . Vol. 2 - 1030584 DOC ID: 70342 IMAGED
DATE: 12/ 8/94 PAGES: 6

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 soil samples.

1. 11. 6. . Vol. 2 - 1030585 DOC ID: 70343 IMAGED
DATE: 12/ 8/94 PAGES: 6

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 soil samples.

1. 11. 6. . Vol. 2 - 1030586 DOC ID: 70344 IMAGED
DATE: 12/ 8/94 PAGES: 7

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 1 filter and 2 water samples.

1. 11. 6. . Vol. 2 - 1030587 DOC ID: 70345 IMAGED
DATE: 12/ 8/94 PAGES: 6

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 1 water and 2 soil samples.

1. 11. 6. . Vol. 2 - 1030588 DOC ID: 70346 IMAGED
DATE: 12/ 8/94 PAGES: 7

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 water and 3 air filter samples.

1. 11. 6. . Vol. 2 - 1030589 DOC ID: 70347 IMAGED
DATE: 12/ 8/94 PAGES: 9

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 1 soil and 2 water samples.

1. 11. 6. . Vol. 2 - 1030590 DOC ID: 70348 IMAGED
DATE: 12/ 8/94 PAGES: 13

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 9 filter samples.

1. 11. 6. . Vol. 2 - 1030591 DOC ID: 70349 IMAGED
DATE: 12/12/94 PAGES: 19

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 3 air filter and 12 soil samples.

SUB-HEAD: 1. 11. 6. . Vol. 3 - Sampling Activities

1. 11. 6. . Vol. 3 - 1030483 DOC ID: 70230 IMAGED
DATE: 12/16/94 PAGES: 4

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 3 - 1030484 DOC ID: 70231 IMAGED
DATE: 12/16/94 PAGES: 8

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 5 water samples.

1. 11. 6. . Vol. 3 - 1030485 DOC ID: 70232 IMAGED
DATE: 12/16/94 PAGES: 6

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 3 - 1030486 DOC ID: 70233 IMAGED
DATE: 12/16/94 PAGES: 4

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 1 water sample.

1. 11. 6. . Vol. 3 - 1030487 DOC ID: 70234 IMAGED
DATE: 12/16/94 PAGES: 4

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 1 water sample.

1. 11. 6. . Vol. 3 - 1030488 DOC ID: 70235 IMAGED
DATE: 12/16/94 PAGES: 4

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 3 - 1030489 DOC ID: 70236 IMAGED
DATE: 12/16/94 PAGES: 7

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 3 - 1030490 DOC ID: 70237 IMAGED
DATE: 12/20/94 PAGES: 15

AUTHOR(S): ADDRESSEE(S):

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

Mark Woodke/Ecology & Environment, Inc.

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 8 soil and 3 water samples.

1. 11. 6. . Vol. 3 - 1030491 DOC ID: 70238 IMAGED

DATE: 12/20/94 PAGES: 12

AUTHOR(S):

ADDRESSEE(S):

Mark Woodke/Ecology & Environment, Inc.

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 4 soil and 4 filter samples.

1. 11. 6. . Vol. 3 - 1030492 DOC ID: 70239 IMAGED

DATE: 12/20/94 PAGES: 4

AUTHOR(S):

ADDRESSEE(S):

Mark Woodke/Ecology & Environment, Inc.

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 3 - 1030493 DOC ID: 70240 IMAGED

DATE: 12/22/94 PAGES: 6

AUTHOR(S):

ADDRESSEE(S):

Mark Woodke/Ecology & Environment, Inc.

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 4 wipe samples.

1. 11. 6. . Vol. 3 - 1030494 DOC ID: 70241 IMAGED

DATE: 12/22/94 PAGES: 6

AUTHOR(S):

ADDRESSEE(S):

Mark Woodke/Ecology & Environment, Inc.

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review.

1. 11. 6. . Vol. 3 - 1030495 DOC ID: 70242 IMAGED

DATE: 12/27/94 PAGES: 11

AUTHOR(S):

ADDRESSEE(S):

Mark Woodke/Ecology & Environment, Inc.

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 9 filter samples.

1. 11. 6. . Vol. 3 - 1030496 DOC ID: 70243 IMAGED

DATE: 12/27/94 PAGES: 5

AUTHOR(S):

ADDRESSEE(S):

Mark Woodke/Ecology & Environment, Inc.

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, General Chemistry Data Quality Assurance Review of 4 hi-vol filter samples.

1. 11. 6. . Vol. 3 - 1030497 DOC ID: 70244 IMAGED

DATE: 12/27/94 PAGES: 12

AUTHOR(S):

ADDRESSEE(S):

Mark Woodke/Ecology & Environment, Inc.

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 1 water and 3 soil samples.

1. 11. 6. . Vol. 3 - 1030498 DOC ID: 70245 IMAGED

DATE: 12/27/94 PAGES: 9

AUTHOR(S):

ADDRESSEE(S):

Mark Woodke/Ecology & Environment, Inc.

Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 3 soil samples.

1. 11. 6. . Vol. 3 - 1030499 DOC ID: 70246 IMAGED
DATE: 12/27/94 PAGES: 8
AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.
DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 3 soil samples.

1. 11. 6. . Vol. 3 - 1030500 DOC ID: 70247 IMAGED
DATE: 12/27/94 PAGES: 6
AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.
DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 3 soil samples.

1. 11. 6. . Vol. 3 - 1030501 DOC ID: 70248 IMAGED
DATE: 12/29/94 PAGES: 9
AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.
DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 5 soil samples.

1. 11. 6. . Vol. 3 - 1030502 DOC ID: 70249 IMAGED
DATE: 1/ 9/95 PAGES: 3
AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.
DESCRIPTION: Memorandum regarding TDD 10-9410-022, General Chemistry Data Quality Assurance Review of 1 water sample.

1. 11. 6. . Vol. 3 - 1030503 DOC ID: 70250 IMAGED
DATE: 1/ 9/95 PAGES: 7
AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.
DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 4 water samples.

1. 11. 6. . Vol. 3 - 1030504 DOC ID: 70251 IMAGED
DATE: 1/10/95 PAGES: 9
AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.
DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 4 water and 2 soil samples.

1. 11. 6. . Vol. 3 - 1030505 DOC ID: 70252 IMAGED
DATE: 1/10/95 PAGES: 6
AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.
DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 3 - 1030506 DOC ID: 70253 IMAGED
DATE: 1/10/95 PAGES: 9
AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. **ADDRESSEE(S):** Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 3 - 1030592 DOC ID: 70350 IMAGED
DATE: 1/10/95 PAGES: 8

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 3 - 1030514 DOC ID: 70264 IMAGED
DATE: 2/16/95 PAGES: 22

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 20 water samples.

1. 11. 6. . Vol. 3 - 1030515 DOC ID: 70265 IMAGED
DATE: 2/16/95 PAGES: 45

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 21 water samples.

1. 11. 6. . Vol. 3 - 1030516 DOC ID: 70268 IMAGED
DATE: 2/22/95 PAGES: 8

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 2 water samples and three charcoal tube samples.

1. 11. 6. . Vol. 3 - 1030507 DOC ID: 70254 IMAGED
DATE: 2/27/95 PAGES: 21

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 8 soil samples.

1. 11. 6. . Vol. 3 - 1030508 DOC ID: 70255 IMAGED
DATE: 2/27/95 PAGES: 22

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 18 water samples.

1. 11. 6. . Vol. 3 - 1030517 DOC ID: 70267 IMAGED
DATE: 2/28/95 PAGES: 13

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 3 water samples and 6 soil samples.

1. 11. 6. . Vol. 3 - 1030511 DOC ID: 70258 IMAGED
DATE: 3/1/95 PAGES: 13

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 5 air filter samples.

1. 11. 6. . Vol. 3 - 1030509 DOC ID: 70256 IMAGED
DATE: 3/2/95 PAGES: 6

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 3 - 1030518 DOC ID: 70268 IMAGED
DATE: 3/2/95 PAGES: 23

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 20 water samples.

1. 11. 6. . Vol. 3 - 1030593 DOC ID: 70351 IMAGED
DATE: 3/2/95 PAGES: 4

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD #10-9410-022B, Organic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 3 - 1030512 DOC ID: 70259 IMAGED
DATE: 3/3/95 PAGES: 41

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 18 water samples.

1. 11. 6. . Vol. 3 - 1030519 DOC ID: 70269 IMAGED
DATE: 3/3/95 PAGES: 19

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 17 water samples.

1. 11. 6. . Vol. 3 - 1030510 DOC ID: 70257 IMAGED
DATE: 3/13/95 PAGES: 3

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 1 soil samples.

1. 11. 6. . Vol. 3 - 1030606 DOC ID: 70407 IMAGED
DATE: 3/13/95 PAGES: 13

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 3 filter and 2 soil samples.

1. 11. 6. . Vol. 3 - 1030520 DOC ID: 70270 IMAGED
DATE: 3/15/95 PAGES: 7

AUTHOR(S): Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 3 - 1030521 DOC ID: 70271 IMAGED
DATE: 3/15/95 PAGES: 5

AUTHOR(S):
Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S):
Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 2 water samples.

1. 11. 6. . Vol. 3 - 1030524 DOC ID: 70274 IMAGED
DATE: 3/15/95 PAGES: 11

AUTHOR(S):
Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S):
Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 3 - 1030513 DOC ID: 70260 IMAGED
DATE: 3/16/95 PAGES: 13

AUTHOR(S):
Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S):
Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Total Petroleum Hydrocarbons Data Quality Assurance Review.

1. 11. 6. . Vol. 3 - 1030193 DOC ID: 42789 IMAGED
DATE: 3/23/95 PAGES: 1

AUTHOR(S):
William L. Carberry/Ecology & Environment, Inc. ADDRESSEE(S):
Chris Field/EPA

DESCRIPTION: TAT TDD #10-9410-022C.

1. 11. 6. . Vol. 3 - 1030453 DOC ID: 70182 IMAGED
DATE: 3/24/95 PAGES: 21

AUTHOR(S):
Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S):
Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Inorganic Data Quality Assurance Review of 18 water samples.

1. 11. 6. . Vol. 3 - 1030454 DOC ID: 70184 IMAGED
DATE: 3/24/95 PAGES: 41

AUTHOR(S):
Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S):
Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-021, Organic Data Quality Assurance Review of 19 water samples.

1. 11. 6. . Vol. 3 - 1030455 DOC ID: 70185 IMAGED
DATE: 3/24/95 PAGES: 19

AUTHOR(S):
Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S):
Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9412-021, Inorganic Data Quality Assurance Review of 17 water samples.

1. 11. 6. . Vol. 3 - 1030522 DOC ID: 70272 IMAGED
DATE: 4/26/95 PAGES: 6

AUTHOR(S):
Mark Woodke/Ecology & Environment, Inc. ADDRESSEE(S):
Jeff Fowlow/Ecology & Environment, Inc.

(SECRET) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Memorandum regarding TDD 10-9501-005, Inorganic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 3 - 1030523 DOC ID: 70273 IMAGED
DATE: 4/26/95 PAGES: 6

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9501-005, Organic Data Quality Assurance Review of 3 water samples.

1. 11. 6. . Vol. 3 - 1030525 DOC ID: 70275 IMAGED
DATE: 5/ 8/95 PAGES: 6

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9410-022, Organic Data Quality Assurance Review of 4 water samples.

1. 11. 6. . Vol. 3 - 1030526 DOC ID: 70276 IMAGED
DATE: 5/ 8/95 PAGES: 10

AUTHOR(S):

Mark Woodke/Ecology & Environment, Inc.

ADDRESSEE(S):

Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Memorandum regarding TDD 10-9501-005, Inorganic Data Quality Assurance Review of 4 water samples.

SUB-HEAD: 1. 11. 9. . Vol. 1 - OSC Report

1. 11. 9. . Vol. 1 - 1030277 DOC ID: 67472 IMAGED
DATE: 8/ 1/94 PAGES: 3

AUTHOR(S):

CET Environmental Services, Inc.

ADDRESSEE(S):

EPA

DESCRIPTION: Oversize drawings of Boomanub demolition plan.

1. 11. 9. . Vol. 1 - 1037918 DOC ID: 41219 IMAGED
DATE: 4/ 1/95 PAGES: 325

AUTHOR(S):

Jeff Fowlow/Ecology & Environment, Inc.

ADDRESSEE(S):

Chris D. Field/EPA

DESCRIPTION: Final Removal/OSC Report.

HEADING: 2. 0. . . REMEDIAL INVESTIGATION/FEASIBILITY STUDY (R/FS)

SUB-HEAD: 2. 2. . . Vol. 1 - R/FS Scoping

SUB-HEAD: 2. 2. 1. . - Vol. 1 - Correspondence

2. 2. 1. . Vol. 1 - 1037985 DOC ID: 41767 IMAGED

DATE: 6/ 5/96

PAGES: 2

AUTHOR(S):

Deborah J. Yamamoto/EPA

Deborah J. Yamamoto/EPA

ADDRESSEE(S):

Jim Merriam/BOC Gases

Mike Resh/Airco Gases

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1037987 DOC ID: 41768 IMAGED

DATE: 6/ 5/96

PAGES: 2

AUTHOR(S):

Deborah J. Yamamoto/EPA

ADDRESSEE(S):

Glen A. Hayman/EA Engineering, Science & Technology

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1037988 DOC ID: 41770 IMAGED

DATE: 6/ 5/96

PAGES: 2

AUTHOR(S):

Deborah J. Yamamoto/EPA

ADDRESSEE(S):

Clark County Public Utilities

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1037989 DOC ID: 41771 IMAGED

DATE: 6/ 5/96

PAGES: 2

AUTHOR(S):

Deborah J. Yamamoto/EPA

ADDRESSEE(S):

Samuel Giese/Clark County Public Works

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1037990 DOC ID: 41772 IMAGED

DATE: 6/ 5/96

PAGES: 2

AUTHOR(S):

Deborah J. Yamamoto/EPA

Deborah J. Yamamoto/EPA

ADDRESSEE(S):

Charles S. Polityka/U. S. Department of Interior

Preston Sleeper/USDOI

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1037991 DOC ID: 41773 IMAGED

DATE: 6/ 5/96

PAGES: 2

AUTHOR(S):

Deborah J. Yamamoto/EPA

ADDRESSEE(S):

John Ostrowski/City of Vancouver

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1037992 DOC ID: 41774 IMAGED

DATE: 6/ 5/96

PAGES: 2

AUTHOR(S):

Deborah J. Yamamoto/EPA

ADDRESSEE(S):

Mary Beth Hayes/State of Washington Dept. of Ecology

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1037993 DOC ID: 41776 IMAGED

DATE: 6/ 5/96

PAGES: 2

AUTHOR(S):

Deborah J. Yamamoto/EPA

ADDRESSEE(S):

U. S. Fish & Wildlife Service

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1037994 DOC ID: 41777 IMAGED
DATE: 8/ 5/96 PAGES: 2

AUTHOR(S):
Deborah J. Yamamoto/EPA

ADDRESSEE(S):
Tina Masterson/Washington State Department of Ecology

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1037995 DOC ID: 41779 IMAGED
DATE: 8/ 5/96 PAGES: 2

AUTHOR(S):
Deborah J. Yamamoto/EPA

ADDRESSEE(S):
Dan Alexanian/WDOE

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1037996 DOC ID: 41780 IMAGED
DATE: 8/ 5/96 PAGES: 2

AUTHOR(S):
Deborah J. Yamamoto/EPA

ADDRESSEE(S):
Greg Thomas/Agency for Toxic Substances and Disease Registry

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1037997 DOC ID: 41782 IMAGED
DATE: 8/ 5/96 PAGES: 2

AUTHOR(S):
Deborah J. Yamamoto/EPA

ADDRESSEE(S):
John Louderback/Southwest Washington Health District

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1037998 DOC ID: 41783 IMAGED
DATE: 8/ 5/96 PAGES: 2

AUTHOR(S):
Deborah J. Yamamoto/EPA

ADDRESSEE(S):
Rodney Swanson/Clark County, Washington

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1037999 DOC ID: 41784 IMAGED
DATE: 8/ 5/96 PAGES: 2

AUTHOR(S):
Deborah J. Yamamoto/EPA

ADDRESSEE(S):
Terry Reddish/Clark County Citizens Hazardous Waste Task Force

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1038000 DOC ID: 41785 IMAGED
DATE: 8/ 5/96 PAGES: 2

AUTHOR(S):
Deborah J. Yamamoto/EPA

ADDRESSEE(S):
John Frerich/MCF Technology Inc.

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1030001 DOC ID: 41789 IMAGED
DATE: 8/ 5/96 PAGES: 2

AUTHOR(S):
Deborah J. Yamamoto/EPA

ADDRESSEE(S):
Bob Poss/State of Washington

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

2. 2. 1. . Vol. 1 - 1030002 DOC ID: 41790 IMAGED
DATE: 8/ 5/96 PAGES: 2

AUTHOR(S):
Deborah J. Yamamoto/EPA

ADDRESSEE(S):
Douglas Ballou/NE Hazel Dell Neighborhood

Association

DESCRIPTION: Letter inviting participation in an R/FS scoping meeting.

SUB-HEAD: 2. 2. 2. . Vol. 1 - Meetings/Agenda

2. 2. 2. . Vol. 1 - 1030006 DOC ID: 41803 IMAGED

DATE: 6/17/96 PAGES: 8

AUTHOR(S):

EPA

ADDRESSEE(S):

Unknown

DESCRIPTION: Agenda for R/FS Scoping meeting.

SUB-HEAD: 2. 3. . . Vol. 1 - Sampling and Analysis Plans

2. 3. . . Vol. 1 - 1037350 DOC ID: 35723 IMAGED

DATE: 4/10/95 PAGES: 40

AUTHOR(S):

William Carberry/Ecology & Environment

ADDRESSEE(S):

Chris Field/EPA

DESCRIPTION: Quality Assurance Sampling Plan.

2. 3. . . Vol. 1 - 1037351 DOC ID: 35724 IMAGED

DATE: 4/11/95 PAGES: 2

AUTHOR(S):

Laura Castrilli/EPA

ADDRESSEE(S):

Unknown

DESCRIPTION: Sample Analysis request.

2. 3. . . Vol. 1 - 1037352 DOC ID: 35725 IMAGED

DATE: 4/11/95 PAGES: 1

AUTHOR(S):

Donald Matheny/EPA

ADDRESSEE(S):

Ann Williamson/EPA

DESCRIPTION: Review of Sampling Plan.

2. 3. . . Vol. 1 - 1037353 DOC ID: 35726 IMAGED

DATE: 6/14/95 PAGES: 2

AUTHOR(S):

Bernie Zavala/EPA

ADDRESSEE(S):

Unknown

DESCRIPTION: Sample Alteration Checklist.

2. 3. . . Vol. 1 - 1037354 DOC ID: 35727 IMAGED

DATE: 6/15/95 PAGES: 1

AUTHOR(S):

Patrick Newingham/EPA

ADDRESSEE(S):

Unknown

DESCRIPTION: Sample Analysis Request.

2. 3. . . Vol. 1 - 1037355 DOC ID: 35728 IMAGED

DATE: 9/28/95 PAGES: 1

AUTHOR(S):

Patrick Newingham/EPA

ADDRESSEE(S):

Unknown

DESCRIPTION: Sample Analysis Request.

2. 3. . . Vol. 1 - 1037357 DOC ID: 35731 IMAGED

DATE: 10/2/95 PAGES: 3

AUTHOR(S):

Unknown

ADDRESSEE(S):

Unknown

DESCRIPTION: Sampling Schedule 10/2/95 - 10/22/95.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

2. 3. . . . Vol. 1 - 1037356 DOC ID: 35729 IMAGED
DATE: 10/ 4/95 PAGES: 49
AUTHOR(S): Donald Matheny/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Review of Quality Assurance Project Plan and recommendation for approval.

SUB-HEAD: 2. 4. . . . Vol. 1 - Sampling Data

2. 4. . . . Vol. 1 - 1030139 DOC ID: 42613 IMAGED
DATE: PAGES: 2
AUTHOR(S): Unknown ADDRESSEE(S): Unknown
DESCRIPTION: Boomsnub Water Treatment System BI-Weekly Checklist.

2. 4. . . . Vol. 1 - 1037368 DOC ID: 35827 IMAGED
DATE: 5/ 8/95 PAGES: 47
AUTHOR(S): Gerald H. Dodo/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of BNA results.

2. 4. . . . Vol. 1 - 1037369 DOC ID: 35828 IMAGED
DATE: 5/15/95 PAGES: 54
AUTHOR(S): Gerald H. Dodo/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of BNA results.

2. 4. . . . Vol. 1 - 1037370 DOC ID: 35829 IMAGED
DATE: 5/18/95 PAGES: 149
AUTHOR(S): Gerald H. Dodo/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of BNA results.

2. 4. . . . Vol. 1 - 1037371 DOC ID: 35830 IMAGED
DATE: 5/30/95 PAGES: 56
AUTHOR(S): Marcia M. Alforque/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of BNA results.

2. 4. . . . Vol. 1 - 1037372 DOC ID: 35831 IMAGED
DATE: 6/ 1/95 PAGES: 49
AUTHOR(S): Marcia M. Alforque/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of BNA results.

2. 4. . . . Vol. 1 - 1037373 DOC ID: 35832 IMAGED
DATE: 6/ 1/95 PAGES: 34
AUTHOR(S): Marcia M. Alforque/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of BNA results.

2. 4. . . . Vol. 1 - 1037374 DOC ID: 35833 IMAGED
DATE: 6/ 2/95 PAGES: 36
AUTHOR(S): Gerald H. Dodo/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of pentachlorophenol results.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

2. 4. . . . Vol. 1 - 1037375 DOC ID: 35834 IMAGED
DATE: 6/7/95 PAGES: 95
AUTHOR(S): Gerald H. Dodo/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of VOA results.

2. 4. . . . Vol. 1 - 1037376 DOC ID: 35835 IMAGED
DATE: 6/7/95 PAGES: 12
AUTHOR(S): Marcia M. Alforque/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of metals results.

2. 4. . . . Vol. 1 - 1037420 DOC ID: 40256 IMAGED
DATE: 6/8/95 PAGES: 18
AUTHOR(S): Ginna Grepo-Grove/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Data validation report for Volatile Organic and Inorganic analyses.

2. 4. . . . Vol. 1 - 1037377 DOC ID: 35836 IMAGED
DATE: 6/14/95 PAGES: 41
AUTHOR(S): Randy Cummings/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of Pesticides and Polychlorinated Biphenyls results.

SUB-HEAD: 2. 4. . . Vol. 2 - Sampling Data

2. 4. . . . Vol. 2 - 1037378 DOC ID: 40051 IMAGED
DATE: 6/26/95 PAGES: 166
AUTHOR(S): Gerald H. Dodo/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of VOA results.

2. 4. . . . Vol. 2 - 1037379 DOC ID: 40052 IMAGED
DATE: 6/28/95 PAGES: 80
AUTHOR(S): Gerald H. Dodo/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of VOA results.

2. 4. . . . Vol. 2 - 1037380 DOC ID: 40053 IMAGED
DATE: 7/3/95 PAGES: 33
AUTHOR(S): Randy Cummings/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of pesticides and polychlorinated biphenyls.

2. 4. . . . Vol. 2 - 1037381 DOC ID: 40054 IMAGED
DATE: 7/26/95 PAGES: 29
AUTHOR(S): Marcia M. Alforque/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of metals results.

2. 4. . . . Vol. 2 - 1037382 DOC ID: 40055 IMAGED
DATE: 7/31/95 PAGES: 23
AUTHOR(S): Gerald H. Dodo/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of pesticides and polychlorinated biphenyls results.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

2. 4. . . . Vol. 2 - 1037383 DOC ID: 40056 IMAGED
DATE: 8/7/95 PAGES: 30
AUTHOR(S): Gerald H. Dodo/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of BNA results.

2. 4. . . . Vol. 2 - 1037384 DOC ID: 40057 IMAGED
DATE: 8/9/95 PAGES: 25
AUTHOR(S): Gerald H. Dodo/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of VOA results.

2. 4. . . . Vol. 2 - 1037385 DOC ID: 40058 IMAGED
DATE: 8/29/95 PAGES: 13
AUTHOR(S): Gerald H. Dodo/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA data validation of pentachlorophenol results.

2. 4. . . . Vol. 2 - 1037386 DOC ID: 40059 IMAGED
DATE: 11/14/95 PAGES: 49
AUTHOR(S): Maricia M. Alforque/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA review of total metals analysis

2. 4. . . . Vol. 2 - 1037387 DOC ID: 40060 IMAGED
DATE: 11/15/95 PAGES: 36
AUTHOR(S): Maricia M. Alforque/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA review of total metals analysis.

2. 4. . . . Vol. 2 - 1037388 DOC ID: 40061 IMAGED
DATE: 11/15/95 PAGES: 52
AUTHOR(S): Maricia M. Alforque/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA review of total metals analysis.

2. 4. . . . Vol. 2 - 1037403 DOC ID: 40062 IMAGED
DATE: 11/17/95 PAGES: 31
AUTHOR(S): Ginna Grepo-Grove/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA review of total metals analysis.

2. 4. . . . Vol. 2 - 1037404 DOC ID: 40063 IMAGED
DATE: 11/17/95 PAGES: 29
AUTHOR(S): Ginna Grepo-Grove/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: QA review of total metals analysis..

2. 4. . . . Vol. 2 - 1037405 DOC ID: 40065 IMAGED
DATE: 11/17/95 PAGES: 23
AUTHOR(S): Ginna Grepo-Grove/EPA ADDRESSEE(S): Deborah J. Yamamoto/EPA
DESCRIPTION: QA review of total metals analysis.

2. 4. . . . Vol. 2 - 1037506 DOC ID: 40245 IMAGED
DATE: 11/28/95 PAGES: 200
AUTHOR(S): ADDRESSEE(S):

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

Gerald H. Dodo/EPA

Ann Williamson/EPA

DESCRIPTION: Data validation of VOA results.

2. 4. . . Vol. 2 - 1037507 DOC ID: 40248 IMAGED

DATE: 12/14/95 PAGES: 45

AUTHOR(S):

Gerald H. Dodo/EPA

ADDRESSEE(S):

Ann Williamson/EPA

DESCRIPTION: Data validation of VOA results.

SUB-HEAD: 2. 4. . . Vol. 3 - Sampling Data

2. 4. . . Vol. 3 - 1037609 DOC ID: 40506 IMAGED

DATE: 1/30/96 PAGES: 192

AUTHOR(S):

Gerald H. Dodo/EPA

ADDRESSEE(S):

Ann Williamson/EPA

DESCRIPTION: Report of data validation of VOA results.

SUB-HEAD: 2. 4. 1. . Vol. 1 - Notice of Improper Sample Submittal

2. 4. 1. . Vol. 1 - 1037389 DOC ID: 40069 IMAGED

DATE: 4/20/95 PAGES: 2

AUTHOR(S):

Teresa Booth/EPA

ADDRESSEE(S):

Ann Williamson/EPA

DESCRIPTION: Notice of improper sample submittal.

2. 4. 1. . Vol. 1 - 1037390 DOC ID: 40070 IMAGED

DATE: 4/21/95 PAGES: 2

AUTHOR(S):

Candy Patterson/EPA

ADDRESSEE(S):

Katie Adams/ICF Technology Incorporated

DESCRIPTION: Notice of improper sample submittal.

2. 4. 1. . Vol. 1 - 1037391 DOC ID: 40071 IMAGED

DATE: 6/9/95 PAGES: 3

AUTHOR(S):

William L. Carberry/Ecology & Environment, Inc.

ADDRESSEE(S):

Chris D. Field/EPA

DESCRIPTION: Corrections to Boomsnub sampling event chain of custody forms.

2. 4. 1. . Vol. 1 - 1037382 DOC ID: 40072 IMAGED

DATE: 10/6/95 PAGES: 1

AUTHOR(S):

Karen Phillips/City of Vancouver

ADDRESSEE(S):

Unknown Unknown/Unknown

DESCRIPTION: City of Vancouver report of Industrial Violation of permitted discharge limits.

2. 4. 1. . Vol. 1 - 1037393 DOC ID: 40073 IMAGED

DATE: 10/11/95 PAGES: 1

AUTHOR(S):

Linda Rosa/EPA

ADDRESSEE(S):

Ann Williamson/EPA

DESCRIPTION: Notice of improper sample submittal.

2. 4. 1. . Vol. 1 - 1037394 DOC ID: 40074 IMAGED

DATE: 10/13/95 PAGES: 1

AUTHOR(S):

Linda Rosa/EPA

ADDRESSEE(S):

Ann Williamson/EPA

DESCRIPTION: Notice of improper sample submittal.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

2. 4. 1. . Vol. 1 - 1037395 DOC ID: 40076 IMAGED
DATE: 10/17/95 PAGES: 1
AUTHOR(S): Linda Rosa/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Notice of improper sample submittal.

2. 4. 1. . Vol. 1 - 1037396 DOC ID: 40077 IMAGED
DATE: 10/18/95 PAGES: 1
AUTHOR(S): ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Notice of improper sample submittal.

2. 4. 1. . Vol. 1 - 1030709 DOC ID: 70863 IMAGED
DATE: 5/ 8/97 PAGES: 1
AUTHOR(S): EPA Manchester Lab ADDRESSEE(S): Deborah J. Yamamoto/EPA
DESCRIPTION: Notice of improper sample submittal.

2. 4. 1. . Vol. 1 - 1030710 DOC ID: 70864 IMAGED
DATE: 5/12/97 PAGES: 1
AUTHOR(S): EPA Manchester Lab ADDRESSEE(S): Deborah J. Yamamoto/EPA
DESCRIPTION: Notice of improper sample submittal.

2. 4. 1. . Vol. 1 - 1030711 DOC ID: 70865 IMAGED
DATE: 5/13/97 PAGES: 2
AUTHOR(S): EPA Manchester Lab ADDRESSEE(S): Deborah J. Yamamoto/EPA
DESCRIPTION: Notice of improper sample submittal.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

HEADING: 3. 0. . . RECORD OF DECISION (ROD)

SUB-HEAD: 3. 1. . . Vol. 1 - Record of Decision

3. 1. . . Vol. 1 - 1030936 DOC ID: 91127
DATE: 9/29/97 PAGES: 138

AUTHOR(S): EPA ADDRESSEE(S):
Unknown

DESCRIPTION: Record of Decision for Interim Remedial Action at Boomsnub/Airco Superfund Site.

SUB-HEAD: 3. 2. . . Vol. 1 - Proposed Plan for Interim Action

3. 2. . . Vol. 1 - 1030822 DOC ID: 71628 IMAGED
DATE: 7/28/97 PAGES: 11

AUTHOR(S): EPA ADDRESSEE(S):
Unknown

DESCRIPTION: Proposed Plan for Interim Action at Boomsnub/Airco Superfund Site.

SUB-HEAD: 3. 3. . . Vol. 1 - Memos Relating to ROD

3. 3. . . Vol. 1 - 1030926 DOC ID: 72708 IMAGED
DATE: 9/19/97 PAGES: 7

AUTHOR(S): Deborah J. Yamamoto/EPA ADDRESSEE(S):
Site File/EPA

DESCRIPTION: Memo to file regarding figures for inclusion in Interim Action ROD.

3. 3. . . Vol. 1 - 1030925 DOC ID: 72709 IMAGED
DATE: 9/19/97 PAGES: 1

AUTHOR(S): Deborah J. Yamamoto/EPA ADDRESSEE(S):
Site File/EPA

DESCRIPTION: Memo to file regarding documentation of conversation with Dan Alexanian of Washington Dept. of Ecology on geology/hydrogeology in the vicinity of Boomsnub.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

HEADING: 4. 0. . . AIRCO/(BOC GASES) SITE EVALUATION

SUB-HEAD: 4. 1. . . Vol. 1 - Correspondence

4. 1. . . Vol. 1 - 1030128 DOC ID: 42581 IMAGED
DATE: 11/2/93 PAGES: 4

AUTHOR(S): ADDRESSEE(S):
Tina Masterson/Washington State Department of Ecology James Merriam/Airco Gases
DESCRIPTION: Notice of potential liability for the release of Hazardous Substances under the Model Toxics Control Act.

4. 1. . . Vol. 1 - 1030129 DOC ID: 42582 IMAGED
DATE: 12/20/93 PAGES: 18

AUTHOR(S): ADDRESSEE(S):
Megan White/State of Washington James Merriam/Airco Gases
DESCRIPTION: Cover letter and Enforcement Order/Remedial Action Order # DE93TC-S335 for the remediation of the VOC contamination.

4. 1. . . Vol. 1 - 1037104 DOC ID: 35258 IMAGED
DATE: 2/1/94 PAGES: 63

AUTHOR(S): ADDRESSEE(S):
EA Engineering, Science, & Technology Airco Gases
DESCRIPTION: Work Plan for Aquifer Air Sparging/Soil Vapor Extraction Treatability Study for Airco Gases.

4. 1. . . Vol. 1 - 1037105 DOC ID: 35259 IMAGED
DATE: 3/7/94 PAGES: 3

AUTHOR(S): ADDRESSEE(S):
Chris V. Pitre/Pacific Groundwater Group Tina Masterson/Washington State Department of Ecology
DESCRIPTION: Letter regarding review and comments of Draft Work Plan for Soil Vapor Survey.

4. 1. . . Vol. 1 - 1037106 DOC ID: 35260 IMAGED
DATE: 3/15/94 PAGES: 5

AUTHOR(S): ADDRESSEE(S):
Glenn A. Hayman/EA Engineering, Science, & Technology Tina Masterson/Washington State Department of Ecology
DESCRIPTION: Letter regarding final work plan for South Dry Well Sediment Remedial Action.

4. 1. . . Vol. 1 - 1037107 DOC ID: 35261 IMAGED
DATE: 3/16/94 PAGES: 1

AUTHOR(S): ADDRESSEE(S):
Tina Masterson/WDOE James Merriam/Airco Gases
DESCRIPTION: Letter regarding final work plan approval.

4. 1. . . Vol. 1 - 1037109 DOC ID: 35263 IMAGED
DATE: 3/22/94 PAGES: 5

AUTHOR(S): ADDRESSEE(S):
Chris V. Pitre/Pacific Groundwater Group Tina Masterson/Washington State Department of Ecology
DESCRIPTION: Letter regarding review of Work Plan for Aquifer Air Sparging/Soil Vapor Extraction Treatability Study for Airco.

4. 1. . . Vol. 1 - 1037110 DOC ID: 35264 IMAGED
DATE: 4/6/94 PAGES: 7

AUTHOR(S): ADDRESSEE(S):
Tina Masterson/WDOE James Merriam/Airco Gases

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Letter regarding review and comments on Work Plan for Aquifer Air Sparging/Soil Vapor Extraction Treatability Study for Airco.

4. 1. . . . Vol. 1 - 1037111 DOC ID: 35265 IMAGED
DATE: 4/6/94 PAGES: 2

AUTHOR(S): Tina Masterson/WDOE ADDRESSEE(S): James Merriam/Airco Gases

DESCRIPTION: Letter regarding review and approval of the final plan for the Boomsnub VOC Removal System.

4. 1. . . . Vol. 1 - 1037113 DOC ID: 35267 IMAGED
DATE: 4/21/94 PAGES: 4

AUTHOR(S): Tina Masterson/WDOE ADDRESSEE(S): Jim Merriam/Airco Gases

DESCRIPTION: Review and comments on the Draft Work Plan for Installation and Sampling of Five Downgradient Monitoring Wells, Airco Gases.

4. 1. . . . Vol. 1 - 1037112 DOC ID: 35268 IMAGED
DATE: 4/28/94 PAGES: 9

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology ADDRESSEE(S): Tina Masterson/Washington State Department of Ecology

DESCRIPTION: Response to Ecology's comments on the work plan for Aquifer Air Sparging/Soil Vapor Extraction Treatability Study.

4. 1. . . . Vol. 1 - 1037114 DOC ID: 35268 IMAGED
DATE: 5/6/94 PAGES: 12

AUTHOR(S): Glenn Hayman/EA Engineering, Science, & Technology ADDRESSEE(S): Tina Masterson/Washington State Department of Ecology

DESCRIPTION: Analytical narrative and lab data sheets for samples collected from south dry well at Airco.

4. 1. . . . Vol. 1 - 1037115 DOC ID: 35269 IMAGED
DATE: 5/12/94 PAGES: 8

AUTHOR(S): Glenn Hayman/EA Engineering, Science, & Technology ADDRESSEE(S): Tina Masterson/Washington State Department of Ecology

DESCRIPTION: Submittal of Revised Final Work Plan for Soil Vapor Survey at Airco.

4. 1. . . . Vol. 1 - 1037116 DOC ID: 35270 IMAGED
DATE: 5/17/94 PAGES: 2

AUTHOR(S): Tina Masterson/WDOE ADDRESSEE(S): James Merriam/Airco Gases

DESCRIPTION: Letter regarding Airco's response to the work plan for Aquifer Air Sparging/Soil Vapor Extraction Treatability Study.

4. 1. . . . Vol. 1 - 1037117 DOC ID: 35271 IMAGED
DATE: 5/18/94 PAGES: 9

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology ADDRESSEE(S): Tina Masterson/Washington State Department of Ecology

DESCRIPTION: Revised work plan for Installation and Sampling of Five Downgradient Monitoring Wells.

4. 1. . . . Vol. 1 - 1037118 DOC ID: 35272 IMAGED
DATE: 5/20/94 PAGES: 1

AUTHOR(S): Tina Masterson/WDOE ADDRESSEE(S): Jim Merriam/Airco Gases

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Letter regarding Ecology's approval of Final Work Plan for Installation and Sampling of Five Downgradient Monitoring Wells.

4. 1. . . Vol. 1 - 1037121 DOC ID: 35275 IMAGED
DATE: 6/14/94 - PAGES: 2

AUTHOR(S): Tina Masterson/WDOE
ADDRESSEE(S): Jim Merriam/Airco Gases

DESCRIPTION: Letter approving Final Work Plan, Revision II, for the Soil Vapor Survey.

4. 1. . . Vol. 1 - 1037122 DOC ID: 35276 IMAGED
DATE: 6/28/94 PAGES: 5

AUTHOR(S): Glen A. Hayman/EA Engineering, Science, & Technology
ADDRESSEE(S): Tina Masterson/Washington State Department of Ecology

DESCRIPTION: Response Letter to comments on approved soil vapor work plan.

4. 1. . . Vol. 1 - 1037123 DOC ID: 35277 IMAGED
DATE: 8/17/94 PAGES: 8

AUTHOR(S): Glen A. Hayman/EA Engineering, Science, & Technology
ADDRESSEE(S): Tina Masterson/Washington State Department of Ecology

DESCRIPTION: Work Plan for Additional Subsurface Soil Sampling at BOC Gases.

4. 1. . . Vol. 1 - 1037124 DOC ID: 35278 IMAGED
DATE: 8/17/94 PAGES: 2

AUTHOR(S): Michael S. Resh/Airco Gases
ADDRESSEE(S): Tina Masterson/Washington State Department of Ecology

DESCRIPTION: Cover letter regarding Work Plan for additional subsurface soil sampling.

4. 1. . . Vol. 1 - 1037125 DOC ID: 35279 IMAGED
DATE: 8/29/94 PAGES: 8

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology
ADDRESSEE(S): Tina Masterson/Washington State Department of Ecology

DESCRIPTION: Final Work Plan for Additional Subsurface Soil Sampling.

4. 1. . . Vol. 1 - 1037126 DOC ID: 35280 IMAGED
DATE: 8/30/94 PAGES: 1

AUTHOR(S): Tina Masterson/WDOE
ADDRESSEE(S): James Merriam/BOC Gases

DESCRIPTION: Letter regarding WDOE's approval of Final Work Plan for Additional Subsurface Soil Sampling.

4. 1. . . Vol. 1 - 1037129 DOC ID: 35283 IMAGED
DATE: 1/9/95 PAGES: 1

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology
ADDRESSEE(S): Tina Masterson/Washington State Department of Ecology

DESCRIPTION: Letter regarding Phase IV Groundwater Investigation Final Report.

4. 1. . . Vol. 1 - 1037130 DOC ID: 35284 IMAGED
DATE: 2/3/95 PAGES: 38

AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology
ADDRESSEE(S): Scott Inloes/Southwest Air Pollution Control Authority

DESCRIPTION: Summary Report, 9/94 - 12/94, Boomsnub VOC Treatment System.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

4. 1. . . . Vol. 1 - 1030213 DOC ID: 66054 IMAGED
DATE: 3/16/85 PAGES: 5
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology
ADDRESSEE(S): John Felder/Ecology & Environment, Inc.
DESCRIPTION: Survey locations for BOC wells and site plan showing well locations.

4. 1. . . . Vol. 1 - 1037131 DOC ID: 35285 IMAGED
DATE: 5/12/95 PAGES: 3
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology
ADDRESSEE(S): Scott Inloes/Southwest Air Pollution Control Authority
DESCRIPTION: Comments on Order of Authorization to Operate, Boomsnub VOC Treatment System.

4. 1. . . . Vol. 1 - 1037132 DOC ID: 35286 IMAGED
DATE: 7/31/95 PAGES: 1
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology
ADDRESSEE(S): Tina Masterson/Washington State Department of Ecology
DESCRIPTION: Cover letter for Final Phase IV Soil Vapor Survey Report.

4. 1. . . . Vol. 1 - 1037133 DOC ID: 35287 IMAGED
DATE: 8/3/95 PAGES: 1
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology
ADDRESSEE(S): Tina Masterson/Washington State Department of Ecology
DESCRIPTION: Cover letter for Final Phase IV Subsurface Soil Investigation Report, Vol. I.

4. 1. . . . Vol. 1 - 1037135 DOC ID: 35289 IMAGED
DATE: 8/31/95 PAGES: 2
AUTHOR(S): Tina Masterson/WDOE
ADDRESSEE(S): James Merriam/BOC Gases
DESCRIPTION: Letter advising that reporting requirements stated in Enforcement Order DE 93TC-S335 have been satisfied.

4. 1. . . . Vol. 1 - 1030790 DOC ID: 71266 IMAGED
DATE: 10/20/95 PAGES: 1
AUTHOR(S): Glenn A. Hayman/EA Engineering, Science, & Technology
ADDRESSEE(S): Michael S. Resh/BOC Gases
DESCRIPTION: Cover letter for Data Summary Report for BOC Gases.

SUB-HEAD: 4. 2. . . . Vol. 1 - Reports - Pre-EE/CA

4. 2. . . . Vol. 1 - 1037080 DOC ID: 35234 IMAGED
DATE: 4/1/92 PAGES: 109
AUTHOR(S): EA Engineering, Science & Technology
ADDRESSEE(S): Airco Industrial Gases
DESCRIPTION: Report of Investigation Airco Industrial Gases.

4. 2. . . . Vol. 1 - 1037081 DOC ID: 35235 IMAGED
DATE: 10/1/92 PAGES: 198
AUTHOR(S): EA Engineering, Science & Technology
ADDRESSEE(S): Airco Industrial Gases
DESCRIPTION: Phase II Investigation Airco Industrial Gases.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

4. 2. . . . Vol. 1 - 1037083 DOC ID: 35237 IMAGED
DATE: 7/1/93 PAGES: 300
AUTHOR(S): EA Engineering, Science & Technology ADDRESSEE(S): Airco Gases
DESCRIPTION: Phase III Soil and Groundwater Investigation, Airco Gases.

4. 2. . . . Vol. 1 - 1037082 DOC ID: 35238 IMAGED
DATE: 8/26/93 PAGES: 8
AUTHOR(S): Tina Masterson/WDOE ADDRESSEE(S): Mike Resh/Airco Gases
DESCRIPTION: Letter regarding comments and overall concerns regarding Phase III report.

SUB-HEAD: 4. 2. . . . Vol. 2 - Reports - Pre-EE/CA

4. 2. . . . Vol. 2 - 1037084 DOC ID: 35238 IMAGED
DATE: 3/25/94 PAGES: 33
AUTHOR(S): Glen A. Hayman/EA Engineering, Science & Technology ADDRESSEE(S): Tina Masterson/Washington State Department of Ecology
DESCRIPTION: Report: Plan for VOC Removal System Under Enforcement Order.

4. 2. . . . Vol. 2 - 1037085 DOC ID: 35239 IMAGED
DATE: 8/1/94 PAGES: 23
AUTHOR(S): EA Engineering, Science & Technology ADDRESSEE(S): BOC Gases
DESCRIPTION: Report: Groundwater Monitoring Results May 1994, Vol. I of IV, Letter, Tables & Figures.

4. 2. . . . Vol. 2 - 1037086 DOC ID: 35240 IMAGED
DATE: 8/1/94 PAGES: 157
AUTHOR(S): EA Engineering, Science & Technology ADDRESSEE(S): BOC Gases
DESCRIPTION: Report: Groundwater Monitoring Results May 1994, Vol. II of IV, Laboratory Reports.

4. 2. . . . Vol. 2 - 1037087 DOC ID: 35241 IMAGED
DATE: 8/1/94 PAGES: 347
AUTHOR(S): EA Engineering, Science & Technology ADDRESSEE(S): BOC Gases
DESCRIPTION: Report: Groundwater Monitoring Results May 1994, Vol. III of IV, Laboratory Reports.

SUB-HEAD: 4. 2. . . . Vol. 3 - Reports - Pre-EE/CA

4. 2. . . . Vol. 3 - 1037088 DOC ID: 35242 IMAGED
DATE: 8/1/94 PAGES: 385
AUTHOR(S): EA Engineering, Science & Technology ADDRESSEE(S): BOC Gases
DESCRIPTION: Report: Groundwater Monitoring Results May 1994, Vol. IV of IV, Laboratory Reports.

SUB-HEAD: 4. 2. . . . Vol. 4 - Reports - Pre-EE/CA

4. 2. . . . Vol. 4 - 1037091 DOC ID: 35245 IMAGED
DATE: 12/1/94 PAGES: 113
AUTHOR(S): EA Engineering, Science, & Technology ADDRESSEE(S): BOC Gases
DESCRIPTION: Report: Phase IV Groundwater Investigation Final Report, Vol. I

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

4. 2. . . Vol. 4 - 1037092 DOC ID: 35248 IMAGED
DATE: 12/1/94 PAGES: 354
AUTHOR(S): EA Engineering, Science, & Technology ADDRESSEE(S): BOC Gases
DESCRIPTION: Report Phase IV Groundwater Investigation Final Report; Vol. II, Appendix B.

SUB-HEAD: 4. 2. . . Vol. 5 - Reports - Pre-EE/CA

4. 2. . . Vol. 5 - 1037093 DOC ID: 35247 IMAGED
DATE: 12/1/94 PAGES: 241
AUTHOR(S): EA Engineering, Science, & Technology ADDRESSEE(S): BOC Gases
DESCRIPTION: Report Phase IV Groundwater Investigation Final Report; Vol. III, Appendix B, cont'd.

4. 2. . . Vol. 5 - 1037094 DOC ID: 35248 IMAGED
DATE: 7/1/95 PAGES: 116
AUTHOR(S): EA Engineering, Science, & Technology ADDRESSEE(S): BOC Gases
DESCRIPTION: Report Phase IV Soil Vapor Survey Report.

4. 2. . . Vol. 5 - 1030712 DOC ID: 70897 IMAGED
DATE: 7/1/95 PAGES: 18
AUTHOR(S): EA Engineering, Science, and Technology ADDRESSEE(S): BOC Gases
DESCRIPTION: Report Phase IV South Dry Well Remedial Action, Vol. I.

4. 2. . . Vol. 5 - 1037095 DOC ID: 35249 IMAGED
DATE: 8/1/95 PAGES: 57
AUTHOR(S): EA Engineering, Science, & Technology ADDRESSEE(S): BOC Gases
DESCRIPTION: Report Phase IV Subsurface Soil Investigation Report, Vol. I.

SUB-HEAD: 4. 2. . . Vol. 6 - Reports - Pre-EE/CA

4. 2. . . Vol. 6 - 1037096 DOC ID: 35250 IMAGED
DATE: 10/1/95 PAGES: 105
AUTHOR(S): EA Engineering, Science, & Technology ADDRESSEE(S): BOC Gases
DESCRIPTION: Final Boomsnub Air Stripper Operation and Maintenance Plan.

4. 2. . . Vol. 6 - 1030789 DOC ID: 71265 IMAGED
DATE: 10/1/95 PAGES: 128
AUTHOR(S): EA Engineering, Science, and Technology ADDRESSEE(S): BOC Gases
DESCRIPTION: Environmental Investigation Data Report.

4. 2. . . Vol. 6 - 1030019 DOC ID: 41818 IMAGED
DATE: 3/5/96 PAGES: 130
AUTHOR(S): Glen A. Hayman/EA Engineering, Science & Technology ADDRESSEE(S): Scott Inloes/Southwest Air Pollution Control Authority
DESCRIPTION: Report: Boomsnub VOC Treatment System, 1995 Summary Report.

4. 2. . . Vol. 6 - 1030020 DOC ID: 41819 IMAGED
DATE: 5/16/96 PAGES: 40
AUTHOR(S): Glen A. Hayman/EA Engineering, Science & Technology ADDRESSEE(S): Mike Resh/Airco Gases

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Summary of April-May 1985 Groundwater Monitoring Data, BOC Gases.

4. 2. . . Vol. 6 - 1030242 DOC ID: 67236 IMAGED

DATE: 10/17/86

PAGES: 4

AUTHOR(S):

**Glenn A. Hayman/EA Engineering, Science, &
Technology**

ADDRESSEE(S):

Michael S. Resh/Airco Gases

DESCRIPTION: Summary of Boomsnub air stripper temporary leak detection and containment measures construction oversight.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

HEADING: 6. 0. . . REMEDIAL ACTION

SUB-HEAD: 6. 1. . . Vol. 1 - Correspondence

6. 1. . . Vol. 1 - 1037408 DOC ID: 40248 IMAGED
DATE: 7/1/94 PAGES: 2

AUTHOR(S): Thor Cutler/EPA ADDRESSEE(S):
Bub Loiselle/EPA

DESCRIPTION: Requirements for city discharge permit.

6. 1. . . Vol. 1 - 1037407 DOC ID: 40249 IMAGED
DATE: 7/13/94 PAGES: 3

AUTHOR(S): Thor Cutler/EPA ADDRESSEE(S):
Bub Loiselle/EPA

DESCRIPTION: Follow up letter to Thomas Boyer at City of Vancouver.

6. 1. . . Vol. 1 - 1037408 DOC ID: 40250 IMAGED
DATE: 7/20/94 PAGES: 2

AUTHOR(S): Bub Loiselle/EPA ADDRESSEE(S):
Thomas Boyer/City of Vancouver

DESCRIPTION: Follow up letter to Thomas Boyer at City of Vancouver.

6. 1. . . Vol. 1 - 1037409 DOC ID: 40251 IMAGED
DATE: 8/16/94 PAGES: 4

AUTHOR(S): Bub Loiselle/EPA ADDRESSEE(S):
Thomas Boyer/City of Vancouver

DESCRIPTION: Letter requesting waiver of city's development charge.

6. 1. . . Vol. 1 - 1037410 DOC ID: 40252 IMAGED
DATE: 9/2/94 PAGES: 2

AUTHOR(S): Bub Loiselle/EPA ADDRESSEE(S):
Victor Ehrlich/City of Vancouver

DESCRIPTION: Letter requesting waiver of city's system charge and user fee.

6. 1. . . Vol. 1 - 1037411 DOC ID: 40253 IMAGED
DATE: 8/25/95 PAGES: 1

AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S):
Ann Williamson/EPA

DESCRIPTION: Enclosure letter for extended data packages.

6. 1. . . Vol. 1 - 1037932 DOC ID: 41558 IMAGED
DATE: 3/18/96 PAGES: 1

AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S):
Ann Williamson/EPA

DESCRIPTION: Data package cover letter.

6. 1. . . Vol. 1 - 1030295 DOC ID: 68009 IMAGED
DATE: 8/7/96 PAGES: 4

AUTHOR(S): Bernie Zavala/EPA ADDRESSEE(S):
Deborah J. Yamamoto/EPA

DESCRIPTION: Memorandum regarding ground water flow direction for Boomsnub/BOC tested in March and October 1995 and May 1996.

6. 1. . . Vol. 1 - 1030296 DOC ID: 68010 IMAGED
DATE: 8/30/96 PAGES: 2

AUTHOR(S): John P. Frerich/ICF Technology Inc. ADDRESSEE(S):
Bernie Zavala/EPA

DESCRIPTION: Memo regarding installation of wells at Boomsnub.

AUTHOR(S): - **ADDRESSEE(S):**
Deborah J. Yamamoto/EPA Julie Rose/Bonneville Power Administration
DESCRIPTION: Letter regarding installation of monitoring wells on BPA property.

AUTHOR(S): Deborah J. Yamamoto/EPA
ADDRESSEE(S): Lowell Weiss/Clark County Public Works
DESCRIPTION: Letter regarding installation of monitoring wells near Clark County's road right-of-way.

AUTHOR(S): John P. French/MCF Technology Inc. **ADDRESSEE(S):** Anne Dailey/EPA
DESCRIPTION: Corrective Action Memorandum for Field Sampling Activities.

AUTHOR(S): John P. Frerich/MCF Technology Inc. **ADDRESSEE(S):** Anne Dailey/EPA
DESCRIPTION: Corrective Actions for the O & M of the Groundwater Treatment System.

AUTHOR(S): John P. Frerich/MCF Technology Inc.

ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Letter regarding audit of operations and maintenance activities.

AUTHOR(S): Anne Dailey/EPA
ADDRESSEE(S): Deborah J. Yamamoto/EPA
DESCRIPTION: Memo regarding conversation with John Frerich..

AUTHOR(S): Melody Walker/EPA
ADDRESSEE(S): Anne Dailey/EPA
DESCRIPTION: EPA Region 10 RAP Report.

AUTHOR(S): Anne Dailey/EPA
ADDRESSEE(S): Deborah J. Yamamoto/EPA
DESCRIPTION: Memo regarding conversation with John Frerich.

AUTHOR(S): Anne Dailey/EPA
ADDRESSEE(S): Polly M. Quick/ICF Technology
DESCRIPTION: Technical Direction Memorandum.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

6. 1. . . Vol. 1 - 1030801 DOC ID: 71296 IMAGED

DATE: 6/27/97 PAGES: 5

AUTHOR(S):

John P. Frerich/ICF Technology Inc.

ADDRESSEE(S):

Deborah J. Yamamoto/EPA

DESCRIPTION: Technical memorandum evaluating the estimated pumping duration to obtain groundwater cleanup levels for chromium.

6. 1. . . Vol. 1 - 1030802 DOC ID: 71297 IMAGED

DATE: 6/27/97 PAGES: 5

AUTHOR(S):

John P. Frerich/ICF Technology Inc.

ADDRESSEE(S):

Deborah J. Yamamoto/EPA

DESCRIPTION: Cost estimate for expanding the extraction system and repairing or replacing system components.

6. 1. . . Vol. 1 - 1030804 DOC ID: 71310 IMAGED

DATE: 7/1/97 PAGES: 2

AUTHOR(S):

Deborah J. Yamamoto/EPA

ADDRESSEE(S):

Site File/EPA

DESCRIPTION: Memorandum regarding cost estimate for Operation and Maintenance and Improvements to the Boomsnub/Airco Extraction/Treatment System.

SUB-HEAD: 6. 2. . . Vol. 1 - Sampling Data

6. 2. . . Vol. 1 - 1037419 DOC ID: 40254 IMAGED

DATE: 5/28/95 PAGES: 79

AUTHOR(S):

Andrew J. Riddell/Sound Analytical Services

ADDRESSEE(S):

Peter Battuello/ICF Kaiser Engineers

DESCRIPTION: Sample analysis package.

6. 2. . . Vol. 1 - 1037418 DOC ID: 40255 IMAGED

DATE: 6/6/95 PAGES: 422

AUTHOR(S):

Wendy McLeod/OnSite Environmental, Inc.

ADDRESSEE(S):

Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc.

DESCRIPTION: Sample analysis results.

SUB-HEAD: 6. 2. . . Vol. 2 - Sampling Data

6. 2. . . Vol. 2 - 1037509 DOC ID: 40259 IMAGED

DATE: 6/16/95 PAGES: 202

AUTHOR(S):

Wendy McLeod/OnSite Environmental, Inc.

ADDRESSEE(S):

Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 2 - 1037508 DOC ID: 40261 IMAGED

DATE: 6/29/95 PAGES: 361

AUTHOR(S):

Wendy McLeod/OnSite Environmental, Inc.

ADDRESSEE(S):

Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc.

DESCRIPTION: Sample Analysis results.

6. 2. . . Vol. 2 - 1037510 DOC ID: 40262 IMAGED

DATE: 7/19/95 PAGES: 218

AUTHOR(S):

Wendy McLeod/OnSite Environmental, Inc.

ADDRESSEE(S):

Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Sample analysis results.

SUB-HEAD: 6. 2. . . Vol. 3 - Sampling Data

6. 2. . . Vol. 3 - 1037513 DOC ID: 40274 IMAGED
DATE: 8/7/95 PAGES: 413

AUTHOR(S):
Unknown

ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 3 - 1037514 DOC ID: 40275 IMAGED
DATE: 8/24/95 PAGES: 232

AUTHOR(S):
Unknown

ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

SUB-HEAD: 6. 2. . . Vol. 4 - Sampling Data

6. 2. . . Vol. 4 - 1030632 DOC ID: 70607 IMAGED
DATE: 9/14/95 PAGES: 423

AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc.

ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 4 - 1030635 DOC ID: 70609 IMAGED
DATE: 9/21/95 PAGES: 4

AUTHOR(S):
Sound Analytical Services

ADDRESSEE(S):
Wendy McLeod/OnSite Environmental, Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 4 - 1030636 DOC ID: 70610 IMAGED
DATE: 9/28/95 PAGES: 266

AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc.

ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 4 - 1030637 DOC ID: 70613 IMAGED
DATE: 10/3/95 PAGES: 374

AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc.

ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

SUB-HEAD: 6. 2. . . Vol. 5 - Sampling Data

6. 2. . . Vol. 5 - 1030638 DOC ID: 70615 IMAGED
DATE: 10/12/95 PAGES: 186

AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc.

ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

6. 2. . . Vol. 5 - 1030639 DOC ID: 70616 IMAGED
DATE: 11/3/95 PAGES: 187
AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc. ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 5 - 1030640 DOC ID: 70617 IMAGED
DATE: 11/20/95 PAGES: 403
AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc. ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 5 - 1030641 DOC ID: 70619 IMAGED
DATE: 11/30/95 PAGES: 199
AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc. ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 5 - 1030643 DOC ID: 70620 IMAGED
DATE: 12/7/95 PAGES: 228
AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc. ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 5 - 1030644 DOC ID: 70621 IMAGED
DATE: 12/14/95 PAGES: 214
AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc. ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

SUB-HEAD: 6. 2. . . Vol. 6 - Sampling Data

6. 2. . . Vol. 6 - 1030645 DOC ID: 70622 IMAGED
DATE: 12/15/95 PAGES: 556
AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc. ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 6 - 1030646 DOC ID: 70623 IMAGED
DATE: 12/29/95 PAGES: 185
AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc. ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 6 - 1030648 DOC ID: 70626 IMAGED
DATE: 1/4/96 PAGES: 296
AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc. ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 6 - 1030649 DOC ID: 70627 IMAGED
DATE: 1/5/96 PAGES: 128

AUTHOR(S): -
Wendy McLeod/OnSite Environmental, Inc.

ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 6 - 1030650 DOC ID: 70628 IMAGED
DATE: 1/10/96 PAGES: 182

AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc.

ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

SUB-HEAD: 6. 2. . . Vol. 7 - Sampling Data

6. 2. . . Vol. 7 - 1030651 DOC ID: 70629 IMAGED
DATE: 1/16/96 PAGES: 7

AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc.

ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 7 - 1030652 DOC ID: 70630 IMAGED
DATE: 1/23/96 PAGES: 124

AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc.

ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 7 - 1030653 DOC ID: 70631 IMAGED
DATE: 1/30/96 PAGES: 287

AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc.

ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 7 - 1030654 DOC ID: 70632 IMAGED
DATE: 2/15/96 PAGES: 185

AUTHOR(S):
Wendy McLeod/OnSite Environmental, Inc.

ADDRESSEE(S):
Kenneth V. Jennings/ICF Kaiser Engineers Group,
Inc.

DESCRIPTION: Sample analysis results.

6. 2. . . Vol. 7 - 1030200 DOC ID: 66034 IMAGED
DATE: 8/8/96 PAGES: 303

AUTHOR(S):
Ginna Grepo-Grove/EPA

ADDRESSEE(S):
Ann Williamson/EPA

DESCRIPTION: Data Validation Report for Volatile Organic Analysis of Samples from Boomsnub.

6. 2. . . Vol. 7 - 1030201 DOC ID: 66039 IMAGED
DATE: 8/8/96 PAGES: 76

AUTHOR(S):
Ginna Grepo-Grove/EPA

ADDRESSEE(S):
Ann Williamson/EPA

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Data Validation Report for Inorganic Analysis of Samples from Boomsnub.

6. 2. . . Vol. 7 - 1030341 DOC ID: 68239 IMAGED
DATE: 12/23/96 PAGES: 96
AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Formatting of May 1996 Ground Water Data.

6. 2. . . Vol. 7 - 1030342 DOC ID: 68251 IMAGED
DATE: 12/23/96 PAGES: 287
AUTHOR(S): Ginna Grepo-Grove/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Data Validation Report for Volatile Organic Analysis.

SUB-HEAD: 6. 2. 1. . Vol. 1 - Sampling & Analysis Plans

6. 2. 1. . Vol. 1 - 1037504 DOC ID: 40237 IMAGED
DATE: 1/27/95 PAGES: 69
AUTHOR(S): William L. Carberry/Ecology & Environment, Inc. ADDRESSEE(S): Chris D. Field/EPA
DESCRIPTION: Quality Assurance Sampling Plan (QASP) for groundwater treatment operation.

6. 2. 1. . Vol. 1 - 1037505 DOC ID: 40240 IMAGED
DATE: 5/25/95 PAGES: 10
AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Review of Quality Assurance Sampling Plan (QASP) for groundwater treatment operation.

6. 2. 1. . Vol. 1 - 1037516 DOC ID: 40294 IMAGED
DATE: 1/1/96 PAGES: 34
AUTHOR(S): Bernie Zavala/EPA ADDRESSEE(S): Deborah J. Yamamoto/EPA
DESCRIPTION: Quality Assurance Sampling Plan - Groundwater Sampling through Temporary Wells.

6. 2. 1. . Vol. 1 - 1030096 DOC ID: 41963 IMAGED
DATE: 1/31/96 PAGES: 1
AUTHOR(S): Donald Matheny/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Memo regarding review of Quality Assurance Sampling Plan.

6. 2. 1. . Vol. 1 - 1030097 DOC ID: 41964 IMAGED
DATE: 2/5/96 PAGES: 1
AUTHOR(S): Donald Matheny/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Memo regarding review of Quality Assurance Sampling Plan.

6. 2. 1. . Vol. 1 - 1037981 DOC ID: 41729 IMAGED
DATE: 5/30/96 PAGES: 1
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S): John Frerich/MCF Technology Inc.
DESCRIPTION: Transmittal of Quality Assurance Sampling Plan.

6. 2. 1. . Vol. 1 - 1037976 DOC ID: 41724 IMAGED
DATE: 6/4/96 PAGES: 21
AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Quality Assurance Sampling Plan - Groundwater Sampling of Ion Exchange/Air Stripper Treatment System.

6. 2. 1. . Vol. 1 - 1030259 DOC ID: 67301 IMAGED
DATE: 10/25/96 - PAGES: 15

AUTHOR(S): Bernie Zavala/EPA
ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: Quality Assurance Sampling Plan Addendum for Boomsnub/BOC Gases Ground Water Sampling Event October 21-25, 1996.

6. 2. 1. . Vol. 1 - 1030608 DOC ID: 70417 IMAGED
DATE: 4/ 8/97 PAGES: 12

AUTHOR(S): Bernie Zavala/EPA
ADDRESSEE(S): Deborah J. Yamamoto/EPA

DESCRIPTION: Quality Assurance Sampling Plan Addendum for Boomsnub/BOC Gases Ground Water Sampling Event Spring - Week of May 4, 1997.

SUB-HEAD: 6. 2. 2. . Vol. 1 - Monthly Monitoring Reports

6. 2. 2. . Vol. 1 - 1037517 DOC ID: 40295 IMAGED
DATE: 4/10/95 PAGES: 117

AUTHOR(S): William L. Carberry/Ecology & Environment, Inc.
ADDRESSEE(S): Chris D. Field/EPA

DESCRIPTION: 1/95 Monthly Monitoring Report.

NOTE: A/R includes only 6 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1037518 DOC ID: 40296 IMAGED
DATE: 5/12/95 PAGES: 123

AUTHOR(S): William L. Carberry/Ecology & Environment, Inc.
ADDRESSEE(S): Chris D. Field/EPA

DESCRIPTION: 2/95 Monthly Monitoring Report.

NOTE: A/R includes first 9 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1037519 DOC ID: 40297 IMAGED
DATE: 5/19/95 PAGES: 113

AUTHOR(S): William L. Carberry/Ecology & Environment, Inc.
ADDRESSEE(S): Chris D. Field/EPA

DESCRIPTION: 3/95 Monthly Monitoring Report.

Note: A/R includes only first 6 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1037520 DOC ID: 40298 IMAGED
DATE: 6/ 9/95 PAGES: 21

AUTHOR(S): William L. Carberry/Ecology & Environment, Inc.
ADDRESSEE(S): Chris D. Field/EPA

DESCRIPTION: 4/95 Monthly Monitoring Report.

NOTE: A/R includes only first 4 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1037521 DOC ID: 40299 IMAGED
DATE: 6/29/95 PAGES: 143

AUTHOR(S): William L. Carberry/Ecology & Environment, Inc.
ADDRESSEE(S): Chris D. Field/EPA

DESCRIPTION: 5/95 Monthly Monitoring Report.

NOTE: A/R includes only first 6 pages, up to Appendix A.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

6. 2. 2. . Vol. 1 - 1037522 DOC ID: 40300 IMAGED
DATE: 7/17/95 PAGES: 106
AUTHOR(S): William L. Carberry/Ecology & Environment, Inc. ADDRESSEE(S):
Chris D. Field/EPA
DESCRIPTION: 6/95 Monthly Monitoring Report.

NOTE: A/R includes only first 6 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1037523 DOC ID: 40301 IMAGED
DATE: 8/25/95 PAGES: 164
AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S):
Ann Williamson/EPA
DESCRIPTION: 7/95 Monthly Monitoring Report.

NOTE: A/R includes first 6 pages only, up to Appendix A.

6. 2. 2. . Vol. 1 - 1037524 DOC ID: 40302 IMAGED
DATE: 9/27/95 PAGES: 170
AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S):
Ann Williamson/EPA
DESCRIPTION: 8/95 Monthly Monitoring Report.

NOTE: A/R includes first 6 pages only, up to Appendix A.

6. 2. 2. . Vol. 1 - 1037525 DOC ID: 40303 IMAGED
DATE: 10/30/95 PAGES: 159
AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S):
Ann Williamson/EPA
DESCRIPTION: 9/95 Monthly Monitoring Report.

NOTE: A/R includes first 7 pages only, up to Appendix A.

6. 2. 2. . Vol. 1 - 1037526 DOC ID: 40304 IMAGED
DATE: 1/10/96 PAGES: 158
AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S):
Ann Williamson/EPA
DESCRIPTION: 11/95 Monthly Monitoring Report.

NOTE: A/R includes first 7 pages only, up to Appendix A.

6. 2. 2. . Vol. 1 - 1037921 DOC ID: 40787 IMAGED
DATE: 2/9/96 PAGES: 54
AUTHOR(S): Kenneth Jennings/ICF Technology Inc. ADDRESSEE(S):
Ann Williamson/EPA
DESCRIPTION: 12/95 Monthly Extraction Well and System Monitoring Report and cover letter.

NOTE: A/R includes first 6 pages only, up to Appendix A.

6. 2. 2. . Vol. 1 - 1037850 DOC ID: 40788 IMAGED
DATE: 2/19/96 PAGES: 140
AUTHOR(S): Kenneth Jennings/ICF Technology Inc. ADDRESSEE(S):
Ann Williamson/EPA
DESCRIPTION: 1/96 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes only first 8 pages, up to Appendix A.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

6. 2. 2. . Vol. 1 - 1037851 DOC ID: 40789 IMAGED
DATE: 3/8/96 PAGES: 102
AUTHOR(S): Kenneth Jennings/ICF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 10/95 Monthly Extraction Well and System Monitoring Report and cover letter.

NOTE: A/R includes first 6 pages only, up to Appendix A.

6. 2. 2. . Vol. 1 - 1037852 DOC ID: 40850 IMAGED
DATE: 3/27/96 PAGES: 153
AUTHOR(S): Kenneth Jennings/ICF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 2/96 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes first 7 pages only, up to Appendix A.

6. 2. 2. . Vol. 1 - 1037844 DOC ID: 41048 IMAGED
DATE: 4/23/96 PAGES: 140
AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 3/96 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes first 7 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1037825 DOC ID: 41401 IMAGED
DATE: 5/20/96 PAGES: 136
AUTHOR(S): John Frerich/ICF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 4/96 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes first 7 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1030148 DOC ID: 42744 IMAGED
DATE: 8/1/96 PAGES: 109
AUTHOR(S): John Frerich/ICF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 6/96 Extraction Well and System Monitoring Report.

NOTE: A/R includes first 6 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1030149 DOC ID: 42745 IMAGED
DATE: 8/21/96 PAGES: 190
AUTHOR(S): John Frerich/ICF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 7/96 Extraction Well and System Monitoring Report.

NOTE: A/R includes first 6 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1030261 DOC ID: 67303 IMAGED
DATE: 9/23/96 PAGES: 144
AUTHOR(S): John Frerich/ICF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 8/96 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes first 8 pages, up to Appendix A.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

6. 2. 2. . Vol. 1 - 1030262 DOC ID: 67304 IMAGED
DATE: 8/26/96 PAGES: 117

AUTHOR(S): John Frerich/MCF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 5/96 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes first 6 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1030260 DOC ID: 67302 IMAGED
DATE: 10/31/96 PAGES: 148

AUTHOR(S): John Frerich/MCF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 9/96 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes first 6 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1030298 DOC ID: 68011 IMAGED
DATE: 11/25/96 PAGES: 107

AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 10/96 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes first 5 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1030299 DOC ID: 68012 IMAGED
DATE: 12/18/96 PAGES: 57

AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 11/96 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes first 5 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1030300 DOC ID: 68013 IMAGED
DATE: 1/17/97 PAGES: 209

AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 12/96 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes first 10 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1030625 DOC ID: 70457 IMAGED
DATE: 3/27/97 PAGES: 129

AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S): Anne Dailey/EPA
DESCRIPTION: 2/97 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes first 9 pages only, up to Appendix A.

6. 2. 2. . Vol. 1 - 1030626 DOC ID: 70465 IMAGED
DATE: 4/16/97 PAGES: 140

AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S): Anne Dailey/EPA
DESCRIPTION: 3/97 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes first 9 pages only, up to Appendix A.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

6. 2. 2. . Vol. 1 - 1030748 DOC ID: 71056 IMAGED
DATE: 5/19/97 PAGES: 129
AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S): Anne Dailey/EPA
DESCRIPTION: 4/97 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes first 8 pages only, up to Appendix A.

6. 2. 2. . Vol. 1 - 1030867 DOC ID: 72096
DATE: 7/21/97 PAGES: 133
AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S): Anne Dailey/EPA
DESCRIPTION: 6/97 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes only first 7 pages, up to Appendix A.

6. 2. 2. . Vol. 1 - 1030887 DOC ID: 72267
DATE: 8/21/97 PAGES: 132
AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S): Anne Dailey/EPA
DESCRIPTION: 7/97 Monthly Extraction Well and System Monitoring Report.

NOTE: A/R includes first 8 pages, up to Appendix A.

SUB-HEAD: 6. 2. 3. . Vol. 1 - QA Completeness Check

6. 2. 3. . Vol. 1 - 1030862 DOC ID: 72078 IMAGED
DATE: 6/20/97 PAGES: 280
AUTHOR(S): Ginna Grepo-Grove/EPA ADDRESSEE(S): Deborah J. Yamamoto/EPA
DESCRIPTION: Data validation report for Volatile Organic Analysis (VOA) of Samples from Boomsnub.

6. 2. 3. . Vol. 1 - 1030863 DOC ID: 72085 IMAGED
DATE: 6/24/97 PAGES: 14
AUTHOR(S): Donald Matheny/EPA ADDRESSEE(S): Deborah J. Yamamoto/EPA
DESCRIPTION: Data Validation for Boomsnub Service Request #K9703043, Metals Analysis.

6. 2. 3. . Vol. 1 - 1030864 DOC ID: 72086 IMAGED
DATE: 6/24/97 PAGES: 12
AUTHOR(S): Donald Matheny/EPA ADDRESSEE(S): Deborah J. Yamamoto/EPA
DESCRIPTION: Data Validation for Boomsnub Service Request #K9703064, Metals Analysis.

6. 2. 3. . Vol. 1 - 1030865 DOC ID: 72087 IMAGED
DATE: 6/24/97 PAGES: 27
AUTHOR(S): Donald Matheny/EPA ADDRESSEE(S): Deborah J. Yamamoto/EPA
DESCRIPTION: Data Validation for Boomsnub Service Request #K9703142, Metals Analysis.

6. 2. 3. . Vol. 1 - 1030866 DOC ID: 72088 IMAGED
DATE: 6/24/97 PAGES: 27
AUTHOR(S): Donald Matheny/EPA ADDRESSEE(S): Deborah J. Yamamoto/EPA
DESCRIPTION: Data Validation for Boomsnub Service Request #K9703159, Metals Analysis.

SUB-HEAD: 6. 2. 4. . Vol. 1 - Geoprobe/Data Validation

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

6. 2. 4. . . Vol. 1 - 1037862 DOC ID: 41097 IMAGED
DATE: 2/29/96 PAGES: 685
AUTHOR(S): ADDRESSSEE(S):
Ginna Grepo-Grove/EPA Ann Williamson/EPA
DESCRIPTION: Data validation Report for Volatile Organic and Total Chromium Analysis of Samples.

SUB-HEAD: 6. 3. . . Vol. 1 - Step Drawdown Test

6. 3. . . Vol. 1 - 1037530 DOC ID: 40335 IMAGED
DATE: 9/21/95 PAGES: 8
AUTHOR(S): ADDRESSSEE(S):
Kenneth V. Jennings/ACF Kaiser Engineers Group, Inc. Ann Williamson/EPA
DESCRIPTION: Transmittal of data from step drawdown test.

SUB-HEAD: 6. 4. . . Vol. 1 - Operation and Maintenance

6. 4. . . Vol. 1 - 1033975 DOC ID: 40336 IMAGED
DATE: 4/5/95 PAGES: 221
AUTHOR(S): ADDRESSSEE(S):
William L. Carberry/Ecology & Environment, Inc. Chris D. Field/EPA
DESCRIPTION: Operations and Maintenance Manual for groundwater extraction and treatment system.

SUB-HEAD: 6. 4. 1. . Vol. 1 - Systems Operation Report

6. 4. 1. . Vol. 1 - 1037532 DOC ID: 40338 IMAGED
DATE: 3/24/95 PAGES: 5
AUTHOR(S): ADDRESSSEE(S):
William L. Carberry/Ecology & Environment, Inc. Chris D. Field/EPA
DESCRIPTION: 2/95 System Operation Report.

6. 4. 1. . Vol. 1 - 1037533 DOC ID: 40339 IMAGED
DATE: 4/11/95 PAGES: 4
AUTHOR(S): ADDRESSSEE(S):
William L. Carberry/Ecology & Environment, Inc. Chris D. Field/EPA
DESCRIPTION: 3/95 System Operation Report.

6. 4. 1. . Vol. 1 - 1037534 DOC ID: 40340 IMAGED
DATE: 5/12/95 PAGES: 5
AUTHOR(S): ADDRESSSEE(S):
William L. Carberry/Ecology & Environment, Inc. Chris D. Field/EPA
DESCRIPTION: 4/95 System Operation Report.

6. 4. 1. . Vol. 1 - 1037535 DOC ID: 40341 IMAGED
DATE: 6/9/95 PAGES: 7
AUTHOR(S): ADDRESSSEE(S):
Kenneth V. Jennings/ACF Kaiser Engineers Group, Inc. Ann Williamson/EPA
DESCRIPTION: 5/95 System Operation Report.

6. 4. 1. . Vol. 1 - 1037536 DOC ID: 40342 IMAGED
DATE: 7/10/95 PAGES: 6
AUTHOR(S): ADDRESSSEE(S):
Kenneth V. Jennings/ACF Kaiser Engineers Group, Inc. Ann Williamson/EPA
DESCRIPTION: 6/95 System Operation Report.

(BIAAR) BOOMSNUR/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

6. 4. 1. . Vol. 1 - 1037537 DOC ID: 40343 IMAGED
DATE: 8/7/95 PAGES: 4
AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 7/95 System Operation Report.

6. 4. 1. . Vol. 1 - 1037538 DOC ID: 40344 IMAGED
DATE: 9/11/95 PAGES: 7
AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 8/95 System Operation Report.

6. 4. 1. . Vol. 1 - 1037539 DOC ID: 40345 IMAGED
DATE: 10/30/95 PAGES: 7
AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 9/95 System Operation Report.

6. 4. 1. . Vol. 1 - 1037540 DOC ID: 40346 IMAGED
DATE: 11/7/95 PAGES: 7
AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 10/95 System Operation Report.

6. 4. 1. . Vol. 1 - 1037541 DOC ID: 40347 IMAGED
DATE: 1/10/96 PAGES: 7
AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 11/95 System Operation Report.

6. 4. 1. . Vol. 1 - 1037542 DOC ID: 40348 IMAGED
DATE: 1/16/96 PAGES: 5
AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 12/95 System Operation Report.

6. 4. 1. . Vol. 1 - 1037853 DOC ID: 40851 IMAGED
DATE: 2/9/96 PAGES: 14
AUTHOR(S): Kenneth Jennings/ICF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 1/96 System Operation Report.

6. 4. 1. . Vol. 1 - 1037854 DOC ID: 40852 IMAGED
DATE: 3/11/96 PAGES: 12
AUTHOR(S): Kenneth Jennings/ICF Technology Inc. ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 2/96 System Operation Report.

6. 4. 1. . Vol. 1 - 1037915 DOC ID: 41212 IMAGED
DATE: 4/11/96 PAGES: 6
AUTHOR(S): Kenneth V. Jennings/ICF Technology Incorporated ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: 3/96 System Operation Report.

6. 4. 1. . Vol. 1 - 1037916 DOC ID: 41213 IMAGED
DATE: 5/9/96 PAGES: 10
AUTHOR(S): ADDRESSEE(S):

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

Kenneth V. Jennings/MCF Technology Incorporated		Ann Williamson/EPA	
DESCRIPTION: 4/96 System Operation Report.			
6. 4. 1. .	Vol. 1 - 1030018	DOC ID: 41815	IMAGED
	DATE: 6/10/96	PAGES: 9	
AUTHOR(S): John Frerich/MCF Technology Inc.		ADDRESSEE(S): Ann Williamson/EPA	
DESCRIPTION: 5/96 System Operation Report.			
6. 4. 1. .	Vol. 1 - 1030656	DOC ID: 70646	IMAGED
	DATE: 7/12/96	PAGES: 6	
AUTHOR(S): John P. Frerich/MCF Technology Inc.		ADDRESSEE(S): Ann Williamson/EPA	
DESCRIPTION: 6/96 System Operation Report.			
6. 4. 1. .	Vol. 1 - 1030657	DOC ID: 70647	IMAGED
	DATE: 8/ 9/96	PAGES: 6	
AUTHOR(S): John P. Frerich/MCF Technology Inc.		ADDRESSEE(S): Ann Williamson/EPA	
DESCRIPTION: 7/96 System Operation Report.			
6. 4. 1. .	Vol. 1 - 1030658	DOC ID: 70648	IMAGED
	DATE: 9/10/96	PAGES: 7	
AUTHOR(S): John P. Frerich/MCF Technology Inc.		ADDRESSEE(S): Ann Williamson/EPA	
DESCRIPTION: 8/96 System Operation Report.			
6. 4. 1. .	Vol. 1 - 1030659	DOC ID: 70649	IMAGED
	DATE: 10/ 8/96	PAGES: 9	
AUTHOR(S): John P. Frerich/MCF Technology Inc.		ADDRESSEE(S): Ann Williamson/EPA	
DESCRIPTION: 9/96 System Operation Report.			
6. 4. 1. .	Vol. 1 - 1030660	DOC ID: 70650	IMAGED
	DATE: 11/11/96	PAGES: 8	
AUTHOR(S): John P. Frerich/MCF Technology Inc.		ADDRESSEE(S): Ann Williamson/EPA	
DESCRIPTION: 10/96 System Operation Report.			
6. 4. 1. .	Vol. 1 - 1030661	DOC ID: 70651	IMAGED
	DATE: 12/10/96	PAGES: 6	
AUTHOR(S): John P. Frerich/MCF Technology Inc.		ADDRESSEE(S): Ann Williamson/EPA	
DESCRIPTION: 11/96 System Operation Report.			
6. 4. 1. .	Vol. 1 - 1030662	DOC ID: 70652	IMAGED
	DATE: 1/10/97	PAGES: 9	
AUTHOR(S): John P. Frerich/MCF Technology Inc.		ADDRESSEE(S): Ann Williamson/EPA	
DESCRIPTION: 12/96 System Operation Report.			
6. 4. 1. .	Vol. 1 - 1030820	DOC ID: 71584	IMAGED
	DATE: 2/11/97	PAGES: 11	
AUTHOR(S): John P. Frerich/MCF Technology Inc.		ADDRESSEE(S): Ann Williamson/EPA	

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: 1/97 System Operation Report.

6. 4. 1. . Vol. 1 - 1030441 DOC ID: 69879 IMAGED
DATE: 3/7/97 PAGES: 9
AUTHOR(S): - ADDRESSEE(S):
John P. Frerich/MCF Technology Inc. Anne Dailey/EPA

DESCRIPTION: 2/97 System Operation Report.

6. 4. 1. . Vol. 1 - 1030623 DOC ID: 70455 IMAGED
DATE: 4/14/97 PAGES: 9
AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S):
Anne Dailey/EPA

DESCRIPTION: 3/97 System Operation Report.

6. 4. 1. . Vol. 1 - 1030794 DOC ID: 71270 IMAGED
DATE: 5/22/97 PAGES: 9
AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S):
Anne Dailey/EPA

DESCRIPTION: 4/97 System Operation Report.

6. 4. 1. . Vol. 1 - 1030795 DOC ID: 71271 IMAGED
DATE: 6/11/97 PAGES: 9
AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S):
Anne Dailey/EPA

DESCRIPTION: 5/97 System Operation Report.

SUB-HEAD: 6. 4. 2. . Vol. 1 - Emergency Actions

6. 4. 2. . Vol. 1 - 1037543 DOC ID: 40349 IMAGED
DATE: 12/1/95 PAGES: 19
AUTHOR(S): Bernie Zavala/EPA ADDRESSEE(S):
Ann Williamson/EPA

DESCRIPTION: Report of emergency shutdown due to equipment failure on 11/23/95.

6. 4. 2. . Vol. 1 - 1030182 DOC ID: 42779 IMAGED
DATE: 12/20/95 PAGES: 16
AUTHOR(S): Rick Roehl/Ecology & Environment, Inc. ADDRESSEE(S):
EPA

DESCRIPTION: Log book, photos and slides regarding water treatment repairs from 12/12/95 to 12/20/95.

6. 4. 2. . Vol. 1 - 1030183 DOC ID: 42780 IMAGED
DATE: 12/20/95 PAGES: 1
AUTHOR(S): Bernie Zavala/EPA ADDRESSEE(S):
Deborah J. Yamamoto/EPA

DESCRIPTION: Memo regarding need for Boomsnub sludge analysis by x-ray diffraction and micro probe.

6. 4. 2. . Vol. 1 - 1030184 DOC ID: 42782 IMAGED
DATE: 12/21/95 PAGES: 4
AUTHOR(S): Bart Cannon/Cannon Microprobe ADDRESSEE(S):
Mark Woodke/Ecology & Environment, Inc.

DESCRIPTION: Itemization of costs for sludge sampling.

6. 4. 2. . Vol. 1 - 1037544 DOC ID: 40350 IMAGED
DATE: 1/22/96 PAGES: 20
AUTHOR(S): William L. Carberry/Ecology & Environment, Inc. ADDRESSEE(S):
Chris D. Field/EPA

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Trip report of repairs to groundwater treatment .

6. 4. 2. . Vol. 1 - 1037860 DOC ID: 40793 IMAGED
DATE: 1/27/96 PAGES: 2
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S):
Unknown

DESCRIPTION: Temporary well locations and summary of ground water analytical results.

6. 4. 2. . Vol. 1 - 1037845 DOC ID: 41047 IMAGED
DATE: 4/24/96 PAGES: 14
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S):
Richard Cyr/Clark County Public Utilities
Ann Williamson/EPA Rick Roehl/Ecology & Environment, Inc.
Ann Williamson/EPA Elaine Spray/City of Vancouver

DESCRIPTION: Letter and enclosed copy of ICF Technology's "Report on the Boomsnub System Upset and Corrective Actions Taken" (December, 1995), describing treatment process used at site.

6. 4. 2. . Vol. 1 - 1037926 DOC ID: 41402 IMAGED
DATE: 5/20/96 PAGES: 4
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S):
John Frerich/ICF Technology Inc.

DESCRIPTION: Letter regarding need to increase pumping rates of extraction wells.

6. 4. 2. . Vol. 1 - 1037977 DOC ID: 41725 IMAGED
DATE: 5/30/96 PAGES: 2
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S):
John Frerich/ICF Technology Inc.
DESCRIPTION: Quality Assurance Sampling Plan - Groundwater Sampling of Ion Exchange/Air Stripper Treatment System.

6. 4. 2. . Vol. 1 - 1030017 DOC ID: 41814 IMAGED
DATE: 6/7/96 PAGES: 3
AUTHOR(S): John Frerich/ICF Technology Inc. ADDRESSEE(S):
Ann Williamson/EPA
DESCRIPTION: Pump rate test results.

6. 4. 2. . Vol. 1 - 1030121 DOC ID: 42444 IMAGED
DATE: 7/30/96 PAGES: 3
AUTHOR(S): Deborah J. Yamamoto/EPA ADDRESSEE(S):
Bill Gleeson/La Valley Industries, Inc.
DESCRIPTION: Letter advising of spill which occurred on 7/26/96 that may have overflowed onto La Valley property; prevention methods are also outlined.

6. 4. 2. . Vol. 1 - 1030301 DOC ID: 68015 IMAGED
DATE: 8/1/96 PAGES: 6
AUTHOR(S): John P. Frerich/ICF Technology Inc. ADDRESSEE(S):
Ann Williamson/EPA
DESCRIPTION: Memo and photos regarding spill at Boomsnub site.
NOTE: Original photos are in site file.

SUB-HEAD: 6. 5. . . Vol. 1 - Disposal Information

6. 5. . . Vol. 1 - 1037546 DOC ID: 40351 IMAGED
DATE: PAGES: 3
AUTHOR(S): Unknown ADDRESSEE(S):
Unknown

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Infiltration Basin Composition - hand drawings.

6. 5. . . . Vol. 1 - 1037548 DOC ID: 40352 IMAGED
DATE: 7/15/94 PAGES: 1
AUTHOR(S): - ADDRESSEE(S):
City of Vancouver State of Washington Dept. of Ecology
DESCRIPTION: Wastewater engineering statement of account.

6. 5. . . . Vol. 1 - 1037547 DOC ID: 40353 IMAGED
DATE: 9/ 9/94 PAGES: 3
AUTHOR(S): Thor Cutler/EPA ADDRESSEE(S):
Victor Ehrlich/City of Vancouver
DESCRIPTION: Quarterly monitoring report for third quarter 1994.

6. 5. . . . Vol. 1 - 1037549 DOC ID: 40354 IMAGED
DATE: 12/ 1/94 PAGES: - 4
AUTHOR(S): Rick Roehl/Ecology & Environment, Inc. ADDRESSEE(S):
Unknown
DESCRIPTION: Weekly well walk log/daily monitoring reports.

6. 5. . . . Vol. 1 - 1037550 DOC ID: 40355 IMAGED
DATE: 12/ 1/94 PAGES: 1
AUTHOR(S): Beth Feeley/EPA ADDRESSEE(S):
Thomas Boyer/City of Vancouver
DESCRIPTION: Monthly flow data for November.

6. 5. . . . Vol. 1 - 1037551 DOC ID: 40358 IMAGED
DATE: 3/ 1/95 PAGES: 3
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S):
Victor Ehrlich/City of Vancouver
DESCRIPTION: Quarterly monitoring report for first quarter 1995.

6. 5. . . . Vol. 1 - 1037552 DOC ID: 40360 IMAGED
DATE: 3/ 3/95 PAGES: 1
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S):
Thomas Boyer/City of Vancouver
DESCRIPTION: Letter regarding monthly flow data for February, 1995.

6. 5. . . . Vol. 1 - 1037553 DOC ID: 40362 IMAGED
DATE: 4/17/95 PAGES: 1
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S):
Mary White/City of Vancouver
DESCRIPTION: Letter advising of change in contractors from E & E to ICF Kaiser.

6. 5. . . . Vol. 1 - 1037554 DOC ID: 40363 IMAGED
DATE: 5/ 8/95 PAGES: 1
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S):
City of Vancouver
DESCRIPTION: Letter advising of monthly flow data for April 1995.

6. 5. . . . Vol. 1 - 1037555 DOC ID: 40364 IMAGED
DATE: 6/ 5/95 PAGES: 2
AUTHOR(S): Kenneth V. Jennings/ICF Kaiser Engineers Group, Inc. ADDRESSEE(S):
Ann Williamson/EPA
DESCRIPTION: Evaluation of options for disposal method and disposal facility for spent resin.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

6. 5. . . . Vol. 1 - 1037558 DOC ID: 40365 IMAGED
DATE: 6/8/95 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver
DESCRIPTION: Monthly flow data for May, 1995.

6. 5. . . . Vol. 1 - 1037557 DOC ID: 40366 IMAGED
DATE: 7/6/95 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver
DESCRIPTION: Monthly flow data for June, 1995.

6. 5. . . . Vol. 1 - 1037558 DOC ID: 40367 IMAGED
DATE: 8/1/95 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver
DESCRIPTION: Monthly flow data for July, 1995.

6. 5. . . . Vol. 1 - 1037559 DOC ID: 40369 IMAGED
DATE: 9/1/95 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver
DESCRIPTION: Monthly flow data for August, 1995.

6. 5. . . . Vol. 1 - 1037560 DOC ID: 40370 IMAGED
DATE: 9/29/95 PAGES: 3
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Victor Ehrlich/City of Vancouver
DESCRIPTION: Third quarter 1995 monitoring report.

6. 5. . . . Vol. 1 - 1037581 DOC ID: 40371 IMAGED
DATE: 10/2/95 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver
DESCRIPTION: Monthly flow data for Sept. 1995.

6. 5. . . . Vol. 1 - 1037397 DOC ID: 40075 IMAGED
DATE: 10/16/95 PAGES: 12
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA City of Vancouver
DESCRIPTION: Revised third quarter permit monitoring report.

6. 5. . . . Vol. 1 - 1037562 DOC ID: 40469 IMAGED
DATE: 11/2/95 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver
DESCRIPTION: 10/95 flow data.

6. 5. . . . Vol. 1 - 1037583 DOC ID: 40373 IMAGED
DATE: 12/4/95 PAGES: 12
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Elaine Spray/City of Vancouver
DESCRIPTION: Letter regarding discharge violation.

6. 5. . . . Vol. 1 - 1037565 DOC ID: 40374 IMAGED
DATE: 12/19/95 PAGES: 7
AUTHOR(S): ADDRESSEE(S):

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

Ann Williamson/EPA Elaine Spray/City of Vancouver
DESCRIPTION: EPA's response to violations of chromium levels in effluent samples.

6. 5. . . . Vol. 1 - 1037564 DOC ID: 40375 IMAGED
DATE: 12/21/95 PAGES: 11
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA City of Vancouver

DESCRIPTION: Fourth quarter 1995 monitoring report.

6. 5. . . . Vol. 1 - 1037566 DOC ID: 40376 IMAGED
DATE: 1/4/96 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver

DESCRIPTION: 12/95 monthly flow data.

6. 5. . . . Vol. 1 - 1030099 DOC ID: 41966 IMAGED
DATE: 2/1/96 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver

DESCRIPTION: 1/96 flow data report.

6. 5. . . . Vol. 1 - 1030098 DOC ID: 41965 IMAGED
DATE: 2/9/96 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Unknown Unknown

DESCRIPTION: Statement regarding requirements for chemical analyses of samples obtained from groundwater treatment system.

6. 5. . . . Vol. 1 - 1037846 DOC ID: 40795 IMAGED
DATE: 3/4/96 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Thor Cutler/EPA Victor Ehrlich/City of Vancouver

DESCRIPTION: Letter and quarterly water treatment monitoring report for fourth quarter of 1994.

6. 5. . . . Vol. 1 - 1037847 DOC ID: 40796 IMAGED
DATE: 3/4/96 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver

DESCRIPTION: Flow data for Boomsnub water treatment system for February 1996.

6. 5. . . . Vol. 1 - 1037848 DOC ID: 40794 IMAGED
DATE: 3/20/96 PAGES: 3
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver

DESCRIPTION: Letter advising of violation of PH discharge limits.

6. 5. . . . Vol. 1 - 1037849 DOC ID: 40853 IMAGED
DATE: 3/21/96 PAGES: 16
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Victor Ehrlich/City of Vancouver

DESCRIPTION: First quarter 1996 monitoring report for ground water treatment system.

6. 5. . . . Vol. 1 - 1037876 DOC ID: 41134 IMAGED
DATE: 5/1/96 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: 4/96 flow data.

6. 5. . . . Vol. 1 - 1037877 DOC ID: 41136 IMAGED
DATE: 5/2/96 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver
DESCRIPTION: Letter advising of excess ph levels.

6. 5. . . . Vol. 1 - 1037975 DOC ID: 41723 IMAGED
DATE: 6/3/96 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver
DESCRIPTION: 5/96 flow data.

6. 5. . . . Vol. 1 - 1030100 DOC ID: 42042 IMAGED
DATE: 7/1/96 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver
DESCRIPTION: 6/96 flow data for water treatment system.

6. 5. . . . Vol. 1 - 1030143 DOC ID: 42716 IMAGED
DATE: 8/1/96 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver
DESCRIPTION: 7/96 flow data for Boomsnub water treatment system.

6. 5. . . . Vol. 1 - 1030202 DOC ID: 66040 IMAGED
DATE: 9/9/96 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver
DESCRIPTION: 8/96 flow data.

6. 5. . . . Vol. 1 - 1030245 DOC ID: 67256 IMAGED
DATE: 9/27/96 PAGES: 24
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Victor Ehrlich/City of Vancouver
DESCRIPTION: Third quarter 1996 monitoring report.

6. 5. . . . Vol. 1 - 1030244 DOC ID: 67253 IMAGED
DATE: 10/1/96 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver
DESCRIPTION: 9/96 flow data.

6. 5. . . . Vol. 1 - 1030263 DOC ID: 67305 IMAGED
DATE: 11/1/96 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver
DESCRIPTION: 10/96 Boomsnub Water Treatment System flow data.

6. 5. . . . Vol. 1 - 1030281 DOC ID: 67475 IMAGED
DATE: 12/2/96 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Ann Williamson/EPA Thomas Boyer/City of Vancouver
DESCRIPTION: 11/96 flow data.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

6. 5. . . . Vol. 1 - 1030302 DOC ID: 68020 IMAGED
DATE: 1/2/97 PAGES: 15
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S):
Victor Ehrlich/City of Vancouver
DESCRIPTION: Fourth quarter 1996 monitoring report.

6. 5. . . . Vol. 1 - 1030303 DOC ID: 68021 IMAGED
DATE: 1/6/97 PAGES: 1
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S):
Thomas Boyer/City of Vancouver
DESCRIPTION: December 1996 flow data report.

6. 5. . . . Vol. 1 - 1030334 DOC ID: 68204 IMAGED
DATE: 2/3/97 PAGES: 1
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S):
Thomas Boyer/City of Vancouver
DESCRIPTION: 1/97 flow data.

6. 5. . . . Vol. 1 - 1030390 DOC ID: 69010 IMAGED
DATE: 3/3/97 PAGES: 1
AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S):
Thomas Boyer/City of Vancouver
DESCRIPTION: 2/97 flow data.

6. 5. . . . Vol. 1 - 1030749 DOC ID: 71057 IMAGED
DATE: 3/21/97 PAGES: 4
AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S):
Anne Dailey/EPA
DESCRIPTION: First quarter 1997 monitoring report.

6. 5. . . . Vol. 1 - 1030624 DOC ID: 70458 IMAGED
DATE: 3/31/97 PAGES: 13
AUTHOR(S): Anne Dailey/EPA ADDRESSEE(S):
Victor Ehrlich/City of Vancouver
DESCRIPTION: First quarter 1997 monitoring report.

6. 5. . . . Vol. 1 - 1030607 DOC ID: 70416 IMAGED
DATE: 4/1/97 PAGES: 1
AUTHOR(S): Anne Dailey/EPA ADDRESSEE(S):
Thomas Boyer/City of Vancouver
DESCRIPTION: 3/97 flow data.

6. 5. . . . Vol. 1 - 1030677 DOC ID: 70679 IMAGED
DATE: 5/1/97 PAGES: 1
AUTHOR(S): John P. Frerich/MCF Technology Inc. ADDRESSEE(S):
Thomas Boyer/City of Vancouver
DESCRIPTION: 4/97 flow data.

6. 5. . . . Vol. 1 - 1030782 DOC ID: 71190 IMAGED
DATE: 6/3/97 PAGES: 1
AUTHOR(S): John Frerich/MCF Technology Inc. ADDRESSEE(S):
Thomas Boyer/City of Vancouver
DESCRIPTION: 5/97 flow data.

6. 5. . . . Vol. 1 - 1030814 DOC ID: 71444 IMAGED
DATE: 6/27/97 PAGES: 15
AUTHOR(S): ADDRESSEE(S):

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

Anne Dailey/EPA	Victor Ehrlich/City of Vancouver
DESCRIPTION: Second quarter 1997 monitoring report.	
6. 5. . . Vol. 1 - 1030815	DOC ID: 71445 IMAGED
DATE: 7/1/97	PAGES: 1
AUTHOR(S):	ADDRESSEE(S):
Anne Dailey/EPA	Thomas Boyer/City of Vancouver
DESCRIPTION: 6/97 flow data.	
SUB-HEAD: 6. 6. . . Vol. 1 - Extraction System Modeling	
6. 6. . . Vol. 1 - 1030016	DOC ID: 41813 IMAGED
DATE:	PAGES: 2
AUTHOR(S):	ADDRESSEE(S):
Bernie Zavala/EPA	Ann Williamson/EPA
DESCRIPTION: Handwritten notes and drawings on extracting system.	
6. 6. . . Vol. 1 - 1037567	DOC ID: 40475 IMAGED
DATE: 10/31/95	PAGES: 3
AUTHOR(S):	ADDRESSEE(S):
ICF Technology, Inc.	Unknown
DESCRIPTION: Topography maps of capture zones; figure 1, figure 2, Option A, figure 3, Option B.	
6. 6. . . Vol. 1 - 1037928	DOC ID: 41522 IMAGED
DATE: 5/31/96	PAGES: 7
AUTHOR(S):	ADDRESSEE(S):
ICF Technology, Inc.	Ann Williamson/EPA
DESCRIPTION: Final Groundwater Flow and Particle Tracking Modeling.	

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

HEADING: 8. 0. . . STATE INVOLVEMENT/COORDINATION

SUB-HEAD: 8. 1. . . Vol. 1 - Correspondence

SUB-HEAD: 8. 1. 1. . - Vol. 1 - Formal Correspondence

8. 1. 1. . Vol. 1 - 1037568 DOC ID: 40476 IMAGED
DATE: 3/11/93 PAGES: 2
AUTHOR(S): Carol L. Fleskes/State of Washington ADDRESSEE(S): Randall F. Smith/EPA
DESCRIPTION: Letter requesting that EPA expedite ranking of site as hazardous.

8. 1. 1. . Vol. 1 - 1037569 DOC ID: 40477 IMAGED
DATE: 7/21/93 PAGES: 2
AUTHOR(S): Randall F. Smith/EPA ADDRESSEE(S): Carol L. Fleskes/State of Washington
DESCRIPTION: Response letter advising that site does not qualify for NPL listing based on HRS score.

8. 1. 1. . Vol. 1 - 1037570 DOC ID: 40478 IMAGED
DATE: 3/2/94 PAGES: 4
AUTHOR(S): Megan White/State of Washington ADDRESSEE(S): James Merriam/Airco Gases
DESCRIPTION: First Amendment to Enforcement Order DE 93TC-S335.

8. 1. 1. . Vol. 1 - 1037571 DOC ID: 40479 IMAGED
DATE: 4/8/94 PAGES: 2
AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Thor Cutler/EPA
DESCRIPTION: Letter regarding soil data and chromium cleanup level (no data attached).

8. 1. 1. . Vol. 1 - 1037572 DOC ID: 40480 IMAGED
DATE: 4/27/94 PAGES: 2
AUTHOR(S): Mike Blum/State of Washington Dept. of Ecology ADDRESSEE(S): James Merriam/Airco Gases
DESCRIPTION: Letter advising of Airco's responsibility for wastewater discharge permit.

8. 1. 1. . Vol. 1 - 1037573 DOC ID: 40481 IMAGED
DATE: 4/29/94 PAGES: 7
AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Thor Cutler/EPA
DESCRIPTION: Transmittal of Sept. 1993 Fact Sheet on Boomsnub, and March 1994 Groundwater and Treatment System Report.

8. 1. 1. . Vol. 1 - 1037574 DOC ID: 40482 IMAGED
DATE: 5/9/94 PAGES: 3
AUTHOR(S): David B. Jansen/State of Washington Dept. of Ecology ADDRESSEE(S): EPA
DESCRIPTION: Letter regarding proposed listing of Airco Gases on NPL.

8. 1. 1. . Vol. 1 - 1037575 DOC ID: 40483 IMAGED
DATE: 5/24/94 PAGES: 1
AUTHOR(S): Elaine Spray/City of Vancouver ADDRESSEE(S): Mary Beth Hayes/State of Washington Dept. of Ecology

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Letter regarding transfer of city discharge permit.

8. 1. 1. . Vol. 1 - 1037576 DOC ID: 40484 IMAGED
DATE: 5/26/94 PAGES: 2
AUTHOR(S): - ADDRESSEE(S):
Richard Cyr/Clark County Public Utilities Thor Cutler/EPA
DESCRIPTION: Letter advising of utilities' willingness to cooperate in cleanup.

8. 1. 1. . Vol. 1 - 1037577 DOC ID: 40485 IMAGED
DATE: 5/31/94 PAGES: 1
AUTHOR(S): - ADDRESSEE(S):
Tina Masterson/Washington State Department of Ecology Ann Williamson/EPA
DESCRIPTION: Cover letter transmitting enforcement information and approved work plans (not attached).

8. 1. 1. . Vol. 1 - 1037578 DOC ID: 40486 IMAGED
DATE: 6/14/94 PAGES: 5
AUTHOR(S): - ADDRESSEE(S):
Dan Alexanian/WDOE Ann Williamson/EPA
DESCRIPTION: Letter expressing concern about chromium plume.

8. 1. 1. . Vol. 1 - 1037579 DOC ID: 40487 IMAGED
DATE: 7/7/94 PAGES: 1
AUTHOR(S): - ADDRESSEE(S):
Mike Blum/State of Washington Dept. of Ecology State of Washington
DESCRIPTION: Letter advising not to sell property adjacent to Boomsnub.

8. 1. 1. . Vol. 1 - 1037580 DOC ID: 40488 IMAGED
DATE: 7/15/94 PAGES: 3
AUTHOR(S): - ADDRESSEE(S):
K. Seiler/Washington State Department of Ecology Jason Niblett/Boomsnub Corp.
DESCRIPTION: Letter advising of need to submit an engineering report, plans and specifications and an operations and maintenance manual for new construction.

8. 1. 1. . Vol. 1 - 1037581 DOC ID: 40489 IMAGED
DATE: 7/22/94 PAGES: 1
AUTHOR(S): - ADDRESSEE(S):
Mary Beth Hayes/State of Washington Dept. of Ecology Elaine Spray/City of Vancouver
DESCRIPTION: June 1994 flow data for groundwater cleanup project.

8. 1. 1. . Vol. 1 - 1037582 DOC ID: 40490 IMAGED
DATE: 7/26/94 PAGES: 1
AUTHOR(S): - ADDRESSEE(S):
Mary Beth Hayes/State of Washington Dept. of Ecology Elaine Spray/City of Vancouver
DESCRIPTION: Letter regarding discharge permit.

8. 1. 1. . Vol. 1 - 1037583 DOC ID: 40491 IMAGED
DATE: 8/8/94 PAGES: 5
AUTHOR(S): - ADDRESSEE(S):
Tina Masterson/Washington State Department of Ecology Ann Williamson/EPA
DESCRIPTION: Transmittal of agreement for Wastewater Discharge Fees.

8. 1. 1. . Vol. 1 - 1037584 DOC ID: 40492 IMAGED
DATE: 8/8/94 PAGES: 3
AUTHOR(S): - ADDRESSEE(S):
Mary Beth Hayes/State of Washington Dept. of Ecology Juanita Fitzgerald/Unknown

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Well sampling results.

8. 1. 1. . Vol. 1 - 1037585 DOC ID: 40493 IMAGED
DATE: 9/8/94 PAGES: 2
AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Robert Williams/Unknown
DESCRIPTION: Well sampling results.

8. 1. 1. . Vol. 1 - 1037589 DOC ID: 40494 IMAGED
DATE: 9/9/94 PAGES: 3
AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Robert Crockford/Unknown
DESCRIPTION: Well sampling results.

8. 1. 1. . Vol. 1 - 1037586 DOC ID: 40495 IMAGED
DATE: 9/14/94 PAGES: 1
AUTHOR(S): Tina Masterson/Washington State Department of Ecology ADDRESSEE(S): James Merriam/BOC Gases
DESCRIPTION: Letter advising company to negotiate an agreement with EPA for payment of wastewater discharge fee.

8. 1. 1. . Vol. 1 - 1037587 DOC ID: 40496 IMAGED
DATE: 10/19/94 PAGES: 3
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S): Mary Beth Hayes/State of Washington Dept. of Ecology
DESCRIPTION: Statement of Work for agency assistance between EPA and Dept. of Ecology.

8. 1. 1. . Vol. 1 - 1037588 DOC ID: 40497 IMAGED
DATE: 11/9/94 PAGES: 1
AUTHOR(S): Tina Masterson/Washington State Department of Ecology ADDRESSEE(S): James Merriam/BOC Gases
DESCRIPTION: Letter regarding concurrence on disposal of soil that has not been treated for contaminants.

8. 1. 1. . Vol. 1 - 1037590 DOC ID: 40498 IMAGED
DATE: 3/3/95 PAGES: 15
AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Memo with attached letters sent to individuals in July-Aug. 1993 requesting contributions for cleanup.

8. 1. 1. . Vol. 1 - 1030140 DOC ID: 42614 IMAGED
DATE: 4/25/95 PAGES: 1
AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): EPA
DESCRIPTION: Quarterly Report for 1/1/95 - 03/31/95.

8. 1. 1. . Vol. 1 - 1037591 DOC ID: 40499 IMAGED
DATE: 6/20/95 PAGES: 1
AUTHOR(S): David B. Jansen/State of Washington Dept. of Ecology ADDRESSEE(S): State of Washington
DESCRIPTION: Letter regarding release of state property on NE 78th St., Vancouver.

8. 1. 1. . Vol. 1 - 1037592 DOC ID: 40500 IMAGED
DATE: 9/7/95 PAGES: 13
AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Mark McLoud/Whitfield-Bernhardt Realtors

DESCRIPTION: Reply to inquiry regarding groundwater plume.

8. 1. 1. . Vol. 1 - 1037593 DOC ID: 40501 IMAGED

DATE: 10/2/85 PAGES: 1

AUTHOR(S):

Mary Beth Hayes/State of Washington Dept. of Ecology

ADDRESSEE(S):

Robert Crockford/Unknown

DESCRIPTION: Reply to inquiry, advisement that well is still tainted with chromium.

8. 1. 1. . Vol. 1 - 1037929 DOC ID: 41547 IMAGED

DATE: 4/30/96 PAGES: 2

AUTHOR(S):

Mary Beth Hayes/State of Washington Dept. of Ecology

ADDRESSEE(S):

EPA

DESCRIPTION: Washington State MSCA Quarterly Report.

8. 1. 1. . Vol. 1 - 1030203 DOC ID: 66041 IMAGED

DATE: 8/7/96 PAGES: 1

AUTHOR(S):

Mary Beth Hayes/State of Washington Dept. of Ecology

ADDRESSEE(S):

John Frerich/MCF Technology Inc.

DESCRIPTION: Letter of transmittal regarding Boomsnub groundwater extraction information.

8. 1. 1. . Vol. 1 - 1030315 DOC ID: 68024 IMAGED

DATE: 8/12/96 PAGES: 8

AUTHOR(S):

Ann Williamson/EPA

ADDRESSEE(S):

Mary B. Hayes/Washington State Department of Ecology

DESCRIPTION: Response to Ecology's request for ground water data.

8. 1. 1. . Vol. 1 - 1030271 DOC ID: 67433 IMAGED

DATE: 10/21/96 PAGES: 2

AUTHOR(S):

Dan Alexanian/WDOE

ADDRESSEE(S):

EPA

DESCRIPTION: 10/96 Quarterly progress report from Dept. of Ecology.

8. 1. 1. . Vol. 1 - 1030272 DOC ID: 67435 IMAGED

DATE: 11/12/96 PAGES: 2

AUTHOR(S):

Truman Beeler/EPA

ADDRESSEE(S):

Mary Burg/Washington Dept. of Ecology

DESCRIPTION: Letter regarding audit of Ecology's claim for cost share credit at Boomsnub.

8. 1. 1. . Vol. 1 - 1030786 DOC ID: 71195 IMAGED

DATE: 2/28/97 PAGES: 3

AUTHOR(S):

Washington State Department of Ecology

ADDRESSEE(S):

DESCRIPTION: Washington State Quarterly Report, 4th quarter, 1996.

8. 1. 1. . Vol. 1 - 1030679 DOC ID: 70681 IMAGED

DATE: 4/10/97 PAGES: 2

AUTHOR(S):

Deborah J. Yamamoto/EPA

ADDRESSEE(S):

Dan Alexanian/WDOE

DESCRIPTION: Request for ARARs for the Boomsnub/Airco Superfund Site.

8. 1. 1. . Vol. 1 - 1030812 DOC ID: 71439 IMAGED

DATE: 6/30/97 PAGES: 1

AUTHOR(S):

Dan Alexanian/WDOE

ADDRESSEE(S):

Deborah J. Yamamoto/EPA

DESCRIPTION: Concurrence letter to EPA's Proposed Plan.

SUB-HEAD: 8. 1. 2. . Vol. 1 - Handwritten Correspondence

8. 1. 2. . Vol. 1 - 1037595 DOC ID: 40503 IMAGED

DATE: 12/9/94 PAGES: 1

AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: Letter of transmittal itemizing 4 reports sent to Ann Williamson.

8. 1. 2. . Vol. 1 - 1030204 DOC ID: 66042 IMAGED

DATE: 8/13/96 PAGES: 6

AUTHOR(S): Sean Sheldrake/EPA
Sean Sheldrake/EPA
Sean Sheldrake/EPA
ADDRESSEE(S): Ann Williamson/EPA
Deborah J. Yamamoto/EPA
Bernie Zavala/EPA

DESCRIPTION: E-mail correspondence discussing reinjection of treated groundwater.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

HEADING: 9. 0. . . MUNICIPAL/LOCAL GOVERNMENT INVOLVEMENT

SUB-HEAD: 9. 1. . . Vol. 1 - Correspondence

9. 1. . . Vol. 1 - 1037625 DOC ID: 40537 IMAGED
DATE: 4/13/94 PAGES: 3
AUTHOR(S): Dan Matlock/Pacific Groundwater Group ADDRESSEE(S): Thor Cutler/EPA
DESCRIPTION: Letter with table attached showing locations of monitoring wells and water supply wells.

9. 1. . . Vol. 1 - 1037626 DOC ID: 40541 IMAGED
DATE: 5/26/94 PAGES: 2
AUTHOR(S): Richard Cyr/Clark County Public Utilities ADDRESSEE(S): Thor Cutler/EPA
DESCRIPTION: Letter expressing utilities' interest in involvement in cleanup project.

9. 1. . . Vol. 1 - 1037627 DOC ID: 40538 IMAGED
DATE: 8/27/94 PAGES: 1
AUTHOR(S): Elaine Spray/City of Vancouver ADDRESSEE(S): John Roland/Ecology & Environment, Inc.
DESCRIPTION: Requirements for city discharge permit #90-7.

9. 1. . . Vol. 1 - 1037628 DOC ID: 40542 IMAGED
DATE: 7/18/94 PAGES: 8
AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Thor Cutler/EPA
DESCRIPTION: Fax transmittal of information from city of Vancouver including water quality sampling results from June 94.
Note: Original document is a copy; transmittal sheet covers top of page.

9. 1. . . Vol. 1 - 1037629 DOC ID: 40539 IMAGED
DATE: 7/20/94 PAGES: 2
AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Thor Cutler/EPA
DESCRIPTION: Letter regarding cleanup activities and proposed action at Boomsnub.

9. 1. . . Vol. 1 - 1037630 DOC ID: 40540 IMAGED
DATE: 7/26/94 PAGES: 1
AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Elaine Spray/City of Vancouver
DESCRIPTION: Letter regarding discharge permit modification.

9. 1. . . Vol. 1 - 1037631 DOC ID: 40543 IMAGED
DATE: 7/27/94 PAGES: 2
AUTHOR(S): Mary White/City of Vancouver ADDRESSEE(S): Mary Beth Hayes/State of Washington Dept. of Ecology
DESCRIPTION: Revised sewer discharge permit.

9. 1. . . Vol. 1 - 1037632 DOC ID: 40544 IMAGED
DATE: 8/11/94 PAGES: 1
AUTHOR(S): Randall F. Smith/EPA ADDRESSEE(S): Thor Cutler/EPA
DESCRIPTION: Memo regarding phone conversation with city manager of Vancouver.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

9. 1. . . . Vol. 1 - 1037633 DOC ID: 40545 IMAGED
DATE: 8/17/94 PAGES: 2

AUTHOR(S): Victor Ehrlich/City of Vancouver ADDRESSEE(S): L. S. Lobselle/EPA

DESCRIPTION: Letter regarding cleanup activities.

9. 1. . . . Vol. 1 - 1037634 DOC ID: 40546 IMAGED
DATE: 11/ 1/94 PAGES: 2

AUTHOR(S): Aaron A. Odegard/City of Vancouver ADDRESSEE(S): Richard Cyr/Clark County Public Utilities

DESCRIPTION: Letter regarding fire department response incident that occurred about 15 years ago.

9. 1. . . . Vol. 1 - 1037635 DOC ID: 40547 IMAGED
DATE: 11/ 3/94 PAGES: 1

AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: Copy of memo regarding storm water discharge.

9. 1. . . . Vol. 1 - 1037636 DOC ID: 40548 IMAGED
DATE: 11/ 4/94 PAGES: 7

AUTHOR(S): Clark County Public Works ADDRESSEE(S): EPA

DESCRIPTION: Public works permit to install a conduit across NE 47th Ave.

9. 1. . . . Vol. 1 - 1037637 DOC ID: 40549 IMAGED
DATE: 12/15/94 PAGES: 1

AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Jeff Fowlow/Ecology & Environment, Inc.

DESCRIPTION: Cover letter for drawings of groundwater extraction network.

9. 1. . . . Vol. 1 - 1037638 DOC ID: 40550 IMAGED
DATE: 1/18/95 PAGES: 5

AUTHOR(S): Mary Beth Hayes/State of Washington Dept. of Ecology ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: Letter and information regarding CPU wells installed by PGG.

9. 1. . . . Vol. 1 - 1037639 DOC ID: 40551 IMAGED
DATE: 1/19/95 PAGES: 2

AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S): Richard Cyr/Clark County Public Utilities

DESCRIPTION: Request to be added to bimonthly meetings of advisory group.

9. 1. . . . Vol. 1 - 1037640 DOC ID: 40552 IMAGED
DATE: 1/31/95 PAGES: 4

AUTHOR(S): Thomas Boyer/City of Vancouver ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: 1995 update on industrial pretreatment program.

9. 1. . . . Vol. 1 - 1037641 DOC ID: 40553 IMAGED
DATE: 2/ 8/95 PAGES: 3

AUTHOR(S): Clark County Public Utilities ADDRESSEE(S): Ann Williamson/EPA

DESCRIPTION: Invitation to informational open house on Feb. 7, 1995 regarding road improvement project.

9. 1. . . . Vol. 1 - 1037642 DOC ID: 40554 IMAGED
DATE: 2/ 8/95 PAGES: 1

AUTHOR(S): ADDRESSEE(S):

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

Ann Williamson/EPA

Thomas Boyer/City of Vancouver

DESCRIPTION: Cover letter for monthly flow data for January 1995.

9. 1. . . . Vol. 1 - 1037643 DOC ID: 40555 IMAGED
DATE: 3/14/95 - PAGES: 1

AUTHOR(S):
Fitt Environmental

ADDRESSEE(S):
Gordon Dawson/Clark County Public Works

DESCRIPTION: Diagram of well construction and unit description.

9. 1. . . . Vol. 1 - 1037644 DOC ID: 40558 IMAGED
DATE: 5/ 9/95 PAGES: 17

AUTHOR(S):
Ann Williamson/EPA

ADDRESSEE(S):
Samuel Giese/Clark County Public Works

DESCRIPTION: Comments on revised environmental Determination of Non Significance.

9. 1. . . . Vol. 1 - 1037645 DOC ID: 40557 IMAGED
DATE: 5/12/95 PAGES: 1

AUTHOR(S):
Samuel Giese/Clark County Public Works

ADDRESSEE(S):
Ann Williamson/EPA

DESCRIPTION: Transmittal letter of preliminary construction plans for construction of roadways and storm drains.

9. 1. . . . Vol. 1 - 1037646 DOC ID: 40558 IMAGED
DATE: 6/ 7/95 PAGES: 1

AUTHOR(S):
Ann Williamson/EPA

ADDRESSEE(S):
Aaron A. Odegard/City of Vancouver

DESCRIPTION: Cover letter for copies of revisions to O & M manual for groundwater extraction and treatment system.

9. 1. . . . Vol. 1 - 1037647 DOC ID: 40559 IMAGED
DATE: 6/12/95 PAGES: 1

AUTHOR(S):
Elaine Spray/City of Vancouver

ADDRESSEE(S):
Ann Williamson/EPA

DESCRIPTION: City pretreatment program personnel update.

9. 1. . . . Vol. 1 - 1037648 DOC ID: 40560 IMAGED
DATE: 7/ 7/95 PAGES: 3

AUTHOR(S):
Kimberly Armstrong/Clark County Public Works

ADDRESSEE(S):
Ann Williamson/EPA

DESCRIPTION: Transmittal of GIS data license agreement.

9. 1. . . . Vol. 1 - 1030309 DOC ID: 68027 IMAGED
DATE: 8/28/95 PAGES: 54

AUTHOR(S):
Fitt Environmental

ADDRESSEE(S):
Charlie Masco/Clark County Public Works

DESCRIPTION: Report titled "Hydraulic Lift Removal at Clark County Public Works".

9. 1. . . . Vol. 1 - 1037649 DOC ID: 40561 IMAGED
DATE: 10/ 5/95 PAGES: 20

AUTHOR(S):
Elaine Spray/City of Vancouver

ADDRESSEE(S):
Ann Williamson/EPA

DESCRIPTION: Letter and response letter regarding pretreatment site inspection.

9. 1. . . . Vol. 1 - 1037650 DOC ID: 40562 IMAGED
DATE: 10/11/95 PAGES: 3

AUTHOR(S):
Norman Harker/Harker Engineering

ADDRESSEE(S):
Ann Williamson/EPA

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: Infiltration proposals.

9. 1. . . Vol. 1 - 1037654 DOC ID: 40584 IMAGED
DATE: 1/24/96 PAGES: 5
AUTHOR(S): Nancy Harney/EPA ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Memo and December 1994 BPA groundwater monitoring information.

9. 1. . . Vol. 1 - 1030196 DOC ID: 40797 IMAGED
DATE: 2/22/96 PAGES: 39
AUTHOR(S): Unknown ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Transmittal letter with attached Storm Water Technical Information Report and six pages of plans.

9. 1. . . Vol. 1 - 1030205 DOC ID: 66043 IMAGED
DATE: 9/9/96 PAGES: 78
AUTHOR(S): Thomas Boyer/City of Vancouver ADDRESSEE(S): Ann Williamson/EPA
DESCRIPTION: Notice of Intent to Adopt New City Ordinance.

9. 1. . . Vol. 1 - 1030264 DOC ID: 67418 IMAGED
DATE: 10/15/96 PAGES: 3
AUTHOR(S): Greg Shafer/Clark County Public Works ADDRESSEE(S): Bernie Zavala/EPA
DESCRIPTION: Proposal for stormwater management facility.

9. 1. . . Vol. 1 - 1030243 DOC ID: 67238 IMAGED
DATE: 10/22/96 PAGES: 159
AUTHOR(S): Ann Williamson/EPA ADDRESSEE(S): Bryan Halbert/Schlecht Construction, Inc.
DESCRIPTION: Letter regarding revised drainage plans for Schlecht Commercial Building and package of information to aid in correspondence with the county.

9. 1. . . Vol. 1 - 1030307 DOC ID: 68025 IMAGED
DATE: 11/7/96 PAGES: 2
AUTHOR(S): Greg Shafer/Clark County Public Works ADDRESSEE(S): Unknown
DESCRIPTION: Memorandum regarding NE 78th St. stormwater detention facility.

9. 1. . . Vol. 1 - 1030308 DOC ID: 68026 IMAGED
DATE: 11/26/96 PAGES: 1
AUTHOR(S): Otto Galtner/Unknown ADDRESSEE(S): Deborah J. Yamamoto/EPA
DESCRIPTION: Map regarding stormwater infiltration system.

9. 1. . . Vol. 1 - 1030701 DOC ID: 70780 IMAGED
DATE: 4/16/97 PAGES: 7
AUTHOR(S): Philip Gaddis/Clark County Public Works ADDRESSEE(S): Unknown
DESCRIPTION: Wetland Assessment and Delineation for NE 78th St. at St. Johns Road.

SUB-HEAD: 9. 2. . . Vol. 1 - Discharge Permits

9. 2. . . Vol. 1 - 1037652 DOC ID: 40565 IMAGED
DATE: 5/1/92 PAGES: 21
AUTHOR(S): Victor Ehrlich/City of Vancouver ADDRESSEE(S): State of Washington Dept. of Ecology

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

DESCRIPTION: City of Vancouver Wastewater Discharge Permit.

9. 2. . . Vol. 1 - 1037653 DOC ID: 40566 IMAGED

DATE: 9/6/94 PAGES: 20

AUTHOR(S): Victor Ehrlich/City of Vancouver ADDRESSEE(S): EPA

DESCRIPTION: City of Vancouver Wastewater Discharge Permit (transferred from WDOE to EPA).

SUB-HEAD: 9. 3. . . Vol. 1 - PGG Report

9. 3. . . Vol. 1 - 1037090 DOC ID: 40567 IMAGED

DATE: 8/31/94 PAGES: 264

AUTHOR(S): Pacific Groundwater Group ADDRESSEE(S): Clark County Public Utilities

DESCRIPTION: Results of Hydrogeologic Investigations near Boomsnub/Airco Facilities.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

HEADING: 13. 0. . . HEALTH ASSESSMENTS

SUB-HEAD: 13. 1. . . Vol. 1 - Correspondence

13. 1. . . Vol. 1 - 1037890 DOC ID: 41156 IMAGED
DATE: 2/24/95 PAGES: 3

AUTHOR(S):
Ann Williamson/EPA

ADDRESSEE(S):
Richard Robinson/Agency for Toxic Substances
and Disease Registry

DESCRIPTION: EPA comments on draft public health assessment for Boomsnub site.

13. 1. . . Vol. 1 - 1037891 DOC ID: 41157 IMAGED
DATE: 3/2/95 PAGES: 8

AUTHOR(S):
Mary B. Hayes/Washington State Department of Ecology

ADDRESSEE(S):
Richard Robinson/Agency for Toxic Substances
and Disease Registry

DESCRIPTION: Ecology comments on draft public health assessment for Boomsnub site.

13. 1. . . Vol. 1 - 1037892 DOC ID: 41158 IMAGED
DATE: 3/23/95 PAGES: 1

AUTHOR(S):
Cindy Wind/Washington Department of Health

ADDRESSEE(S):
Ann Williamson/EPA

DESCRIPTION: Letter requesting information for educational plan being devised by state Dept. of Health.

13. 1. . . Vol. 1 - 1030206 DOC ID: 66044 IMAGED
DATE: 8/15/96 PAGES: 2

AUTHOR(S):
Gregory D. Thomas/Agency for Toxic Substances and
Disease Registry

ADDRESSEE(S):
Ann Williamson/EPA

DESCRIPTION: E-mail correspondence regarding Boomsnub health education activities.

SUB-HEAD: 13. 2. . . Vol. 1 - ATSDR Health Assessment

13. 2. . . Vol. 1 - 1037894 DOC ID: 41160 IMAGED
DATE: 8/3/95 PAGES: 40

AUTHOR(S):
State of Washington Dept. of Health
Richard Robinson/Agency for Toxic Substances and
Disease Registry

ADDRESSEE(S):
Ann Williamson/EPA
Anni Williamson/EPA

DESCRIPTION: Public Health Assessment for Boomsnub/Airco.

HEADING: 14. 0. . . NATURAL RESOURCE TRUSTEES

SUB-HEAD: 14. 1. . . Vol. 1 - Correspondence

14. 1. . . Vol. 1 - 1037896 DOC ID: 41177 IMAGED
DATE: 2/23/95 PAGES: 1
AUTHOR(S): Thor Cutler/EPA ADDRESSEE(S):
Chris Beaverson/NOAA
DESCRIPTION: Notification of potential damages to natural resources.

14. 1. . . Vol. 1 - 1037897 DOC ID: 41178 IMAGED
DATE: 2/23/95 PAGES: 1
AUTHOR(S): Thor Cutler/EPA ADDRESSEE(S):
Charles S. Polityka/U. S. Department of Interior
DESCRIPTION: Notification of potential damages to natural resources.

14. 1. . . Vol. 1 - 1037898 DOC ID: 41180 IMAGED
DATE: 4/7/95 PAGES: 2
AUTHOR(S): Russell D. Peterson/USFWS ADDRESSEE(S):
Thor Cutler/EPA
DESCRIPTION: Acknowledgement of receipt of notice of potential damages to natural resources.

14. 1. . . Vol. 1 - 1037899 DOC ID: 41183 IMAGED
DATE: 5/12/95 PAGES: 1
AUTHOR(S): Ron Eggers/Bureau of Indian Affairs ADDRESSEE(S):
Thor Cutler/EPA
DESCRIPTION: Response to potential damages notice.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

HEADING: 16. 0. . . PUBLIC PARTICIPATION

SUB-HEAD: 16. 2. . . Vol. 1 - Community Relations Plan

16. 2. . . Vol. 1 - 1037945 DOC ID: 41665 IMAGED
DATE: 10/18/94 PAGES: 15
AUTHOR(S): Jean Baker/EPA ADDRESSEE(S): Unknown
DESCRIPTION: Community Relations Plan.

16. 2. . . Vol. 1 - 1030897 DOC ID: 72411 IMAGED
DATE: 5/12/97 PAGES: 3
AUTHOR(S): EPA ADDRESSEE(S): Unknown
DESCRIPTION: Revised Community Relations Plan.

SUB-HEAD: 16. 3. . . Vol. 1 - Public Notices

16. 3. . . Vol. 1 - 1037946 DOC ID: 41666 IMAGED
DATE: PAGES: 1
AUTHOR(S): Clark County Citizen's Hazardous Waste Task Force ADDRESSEE(S): Unknown
DESCRIPTION: Notice requesting public involvement in protecting drinking water.

SUB-HEAD: 16. 5. . . Vol. 1 - Fact Sheets/Press Releases

16. 5. . . Vol. 1 - 1037947 DOC ID: 41667 IMAGED
DATE: 5/1/90 PAGES: 2
AUTHOR(S): State of Washington Dept. of Ecology ADDRESSEE(S): Unknown
DESCRIPTION: Dept. of Ecology Fact Sheet.

16. 5. . . Vol. 1 - 1037948 DOC ID: 41668 IMAGED
DATE: 7/1/82 PAGES: 3
AUTHOR(S): State of Washington Dept. of Ecology ADDRESSEE(S): Unknown
DESCRIPTION: Dept. of Ecology Fact Sheet.

16. 5. . . Vol. 1 - 1037949 DOC ID: 41669 IMAGED
DATE: 3/1/93 PAGES: 4
AUTHOR(S): State of Washington Dept. of Ecology ADDRESSEE(S): Unknown
DESCRIPTION: Dept. of Ecology Fact Sheet on Airco Gases.

16. 5. . . Vol. 1 - 1037950 DOC ID: 41670 IMAGED
DATE: 9/1/93 PAGES: 5
AUTHOR(S): State of Washington Dept. of Ecology ADDRESSEE(S): Unknown
DESCRIPTION: Boomsnub/Pacific Northwest Plating Fact sheet.

16. 5. . . Vol. 1 - 1037951 DOC ID: 41671 IMAGED
DATE: 12/1/93 PAGES: 4
AUTHOR(S): State of Washington Dept. of Ecology ADDRESSEE(S): Unknown
DESCRIPTION: Dept. of Ecology Fact Sheet regarding Airco Gases.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

16. 5. . . Vol. 1 - 1037952 DOC ID: 41672 IMAGED
DATE: 12/21/83 PAGES: 1
AUTHOR(S): State of Washington Dept. of Ecology ADDRESSEE(S): Unknown
DESCRIPTION: Enviro-News Tips: "Airco in Vancouver to conduct Hazardous Waste Cleanup".

16. 5. . . Vol. 1 - 1037953 DOC ID: 41673 IMAGED
DATE: 1/1/84 PAGES: 1
AUTHOR(S): EPA ADDRESSEE(S): Unknown
DESCRIPTION: National Priorities List identifying Boomsnub as a top priority.

16. 5. . . Vol. 1 - 1037954 DOC ID: 41674 IMAGED
DATE: 1/18/84 PAGES: 7
AUTHOR(S): EPA ADDRESSEE(S): Unknown
DESCRIPTION: EPA News Release regarding proposal to add Boomsnub to NPL .

16. 5. . . Vol. 1 - 1037955 DOC ID: 41675 IMAGED
DATE: 4/12/84 PAGES: 2
AUTHOR(S): U. S. Attorney's Office ADDRESSEE(S): Unknown
DESCRIPTION: Memorandum regarding EPA and DOE response to press inquiries regarding Boomsnub investigation.

16. 5. . . Vol. 1 - 1037956 DOC ID: 41676 IMAGED
DATE: 5/18/84 PAGES: 2
AUTHOR(S): EPA ADDRESSEE(S): Unknown
DESCRIPTION: Superfund Fact Sheet on Boomsnub/Airco site.

16. 5. . . Vol. 1 - 1037957 DOC ID: 41677 IMAGED
DATE: 5/20/84 PAGES: 1
AUTHOR(S): EPA ADDRESSEE(S): Unknown
DESCRIPTION: EPA News Release regarding order to cease operations at Boomsnub.

16. 5. . . Vol. 1 - 1037958 DOC ID: 41678 IMAGED
DATE: 6/17/84 PAGES: 1
AUTHOR(S): EPA ADDRESSEE(S): Unknown
DESCRIPTION: EPA News Release regarding briefing about removal operation.

16. 5. . . Vol. 1 - 1037959 DOC ID: 41679 IMAGED
DATE: 6/20/84 PAGES: 2
AUTHOR(S): EPA ADDRESSEE(S): Unknown
DESCRIPTION: Superfund Fact Sheet about Boomsnub removal action.

16. 5. . . Vol. 1 - 1037960 DOC ID: 41680 IMAGED
DATE: 7/28/84 PAGES: 2
AUTHOR(S): EPA ADDRESSEE(S): Unknown
DESCRIPTION: Superfund Fact Sheet about Boomsnub removal activities.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

16. 5. . . Vol. 1 - 1037961 DOC ID: 41681 IMAGED
DATE: 8/30/84 PAGES: 2

AUTHOR(S): EPA ADDRESSEE(S):
Unknown

DESCRIPTION: Superfund Fact Sheet about progress of Boomsnub removal activities.

16. 5. . . Vol. 1 - 1037962 DOC ID: 41682 IMAGED
DATE: 1/25/95 PAGES: 2

AUTHOR(S): EPA ADDRESSEE(S):
Unknown

DESCRIPTION: Superfund Fact Sheet about completion of Boomsnub removal activities.

16. 5. . . Vol. 1 - 1037964 DOC ID: 41684 IMAGED
DATE: 2/17/95 PAGES: 4

AUTHOR(S): Helen J. Brunner/U. S. Department of Justice ADDRESSEE(S):
Unknown

DESCRIPTION: Press Release regarding indictment of Boomsnub Corporation and corporate officials.

16. 5. . . Vol. 1 - 1037965 DOC ID: 41685 IMAGED
DATE: 4/1/95 PAGES: 1

AUTHOR(S): EPA ADDRESSEE(S):
Unknown

DESCRIPTION: Update to National Priorities List.

16. 5. . . Vol. 1 - 1037963 DOC ID: 41683 IMAGED
DATE: 4/6/95 PAGES: 2

AUTHOR(S): EPA ADDRESSEE(S):
Unknown

DESCRIPTION: Superfund Fact Sheet about start of RI/FS phase.

16. 5. . . Vol. 1 - 1037966 DOC ID: 41686 IMAGED
DATE: 4/25/95 PAGES: 3

AUTHOR(S): EPA ADDRESSEE(S):
Unknown

DESCRIPTION: Fact Sheet advising of addition of Boomsnub to National Priorities List.

16. 5. . . Vol. 1 - 1037967 DOC ID: 41687 IMAGED
DATE: 4/25/95 PAGES: 2

AUTHOR(S): EPA ADDRESSEE(S):
Unknown

DESCRIPTION: EPA News Release regarding addition of sites to National Priorities List.

16. 5. . . Vol. 1 - 1037968 DOC ID: 41688 IMAGED
DATE: 8/29/95 PAGES: 1

AUTHOR(S): Bob Jacobson/EPA ADDRESSEE(S):
Unknown

DESCRIPTION: Press Release regarding court appearances of Boomsnub defendants.

16. 5. . . Vol. 1 - 1037969 DOC ID: 41689 IMAGED
DATE: 10/6/95 PAGES: 2

AUTHOR(S): ADDRESSEE(S):

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

EPA Unknown
DESCRIPTION: Superfund Fact Sheet regarding second phase of ground water sampling at Boomsnub.

16. 5. . . Vol. 1 - 1030091 DOC ID: 41958 IMAGED
DATE: 6/27/96 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
EPA Unknown
DESCRIPTION: Superfund Fact Sheet for Boomsnub/BOC Gases.

16. 5. . . Vol. 1 - 1030440 DOC ID: 69689 IMAGED
DATE: 3/24/97 PAGES: 2
AUTHOR(S): ADDRESSEE(S):
EPA Unknown
DESCRIPTION: Fact Sheet regarding Boomsnub/BOC Gases site evaluation.

SUB-HEAD: 16. 9. . . Vol. 1 - Newspaper Articles

16. 9. . . Vol. 1 - 1037970 DOC ID: 41702 IMAGED
DATE: 1/19/94 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
The Seattle Times Unknown
Tacoma News Tribune Unknown
DESCRIPTION: Articles about Boomsnub nomination for Superfund.

16. 9. . . Vol. 1 - 1037971 DOC ID: 41705 IMAGED
DATE: 1/19/94 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
The Seattle Times Unknown
DESCRIPTION: Seattle Times/AP article about about Boomsnub nomination for Superfund.

16. 9. . . Vol. 1 - 1037972 DOC ID: 41706 IMAGED
DATE: 1/19/94 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Bruce Westfall/The Columbian Unknown
DESCRIPTION: Article regarding Superfund designation.

16. 9. . . Vol. 1 - 1037973 DOC ID: 41707 IMAGED
DATE: 1/20/94 PAGES: 3
AUTHOR(S): ADDRESSEE(S):
Loretta Callahan/The Columbian Unknown
DESCRIPTION: Article: "Boomsnub Cleanup Gets Rolling."

16. 9. . . Vol. 1 - 1037974 DOC ID: 41710 IMAGED
DATE: 5/28/94 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Shirleen Holt/Oregonian Unknown
DESCRIPTION: Article: "EPA Flexing Its Muscles."

16. 9. . . Vol. 1 - 1030009 DOC ID: 41806 IMAGED
DATE: 7/22/94 PAGES: 1
AUTHOR(S): ADDRESSEE(S):
Michael Rose/The Business Journal Unknown
DESCRIPTION: Article: EPA Orders Boomsnub to Evacuate Contaminated Site.

16. 9. . . Vol. 1 - 1030011 DOC ID: 41808 IMAGED
DATE: 8/25/94 PAGES: 2
AUTHOR(S): ADDRESSEE(S):

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

Loretta Callahan/The Columbian

Unknown

DESCRIPTION: Article, "Who Will Pick up Tab for Boomsnub Cleanup?"

16. 9. . . Vol. 1 - 1030010 DOC ID: 41807 IMAGED

DATE: 9/30/94 PAGES: 3

AUTHOR(S):

ADDRESSEE(S):

Thor Cutler/EPA

Bub Loiselle/EPA

DESCRIPTION: Faxed copy of The Columbian article "Chemicals Uncovered at Boomsnub."

16. 9. . . Vol. 1 - 1030012 DOC ID: 41809 IMAGED

DATE: 1/25/95 PAGES: 2

AUTHOR(S):

ADDRESSEE(S):

Richard Cyr/Clark County Public Utilities

Ann Williamson/EPA

DESCRIPTION: Faxed article, "Hazardous-waste Case Plea: Guilty".

16. 9. . . Vol. 1 - 1030013 DOC ID: 41810 IMAGED

DATE: 4/5/95 PAGES: 1

AUTHOR(S):

ADDRESSEE(S):

Oregonian

Unknown

DESCRIPTION: Article, "Sink Size Stirs Storm".

16. 9. . . Vol. 1 - 1030014 DOC ID: 41811 IMAGED

DATE: 10/13/95 PAGES: 1

AUTHOR(S):

ADDRESSEE(S):

Loretta Callahan/The Columbian

Unknown

DESCRIPTION: Article, "New Fears Surface at Boomsnub".

16. 9. . . Vol. 1 - 1030015 DOC ID: 41812 IMAGED

DATE: 3/17/96 PAGES: 1

AUTHOR(S):

ADDRESSEE(S):

Loretta Callahan/The Columbian

Unknown

DESCRIPTION: Article, "Boomsnub Officials Will Serve No Jail Time".

16. 9. . . Vol. 1 - 1030375 DOC ID: 68772 IMAGED

DATE: 2/16/97 PAGES: 3

AUTHOR(S):

ADDRESSEE(S):

Susan Farmer/The Columbian

Unknown

DESCRIPTION: Newspaper article, "A Flair With Air" regarding expansion efforts at BOC Gases.

SUB-HEAD: 16. 10. . . Vol. 1 - Comments on Interim Action Proposed Plan

16. 10. . . Vol. 1 - 1030860 DOC ID: 72076 IMAGED

DATE: 7/30/97 PAGES: 1

AUTHOR(S):

ADDRESSEE(S):

Douglas Ballou/NE Hazel Dell Neighborhood Association Deborah J. Yamamoto/EPA

DESCRIPTION: Letter regarding Proposed Plan for Interim Action.

(BIAAR) BOOMSNUB/AIRCO - INTERIM ACTION ADMIN. RECORD INDEX

HEADING: 18. 0. . . GUIDANCE/REFERENCE MATERIAL

SUB-HEAD: 18. 3. . . Vol. 1 - Technical Reference Material

18. 3. . . Vol. 1 - 1030077 DOC ID: 41935 IMAGED

DATE: PAGES: 216

AUTHOR(S): ADDRESSEE(S):
OnSite Environmental, Inc. Unknown

DESCRIPTION: Material Safety Data Sheets (MSDS) Organizer; Glossary of Terms, MSDS Request Form, Sample MSD Sheet.

18. 3. . . Vol. 1 - 1030078 DOC ID: 41936 IMAGED

DATE: 9/26/85 PAGES: 3

AUTHOR(S): ADDRESSEE(S):
Unknown

DESCRIPTION: Material Safety Data Sheet on Trichloroethane.

18. 3. . . Vol. 1 - 1030080 DOC ID: 41938 IMAGED

DATE: 1/1/91 PAGES: 16

AUTHOR(S): ADDRESSEE(S):
Robert S. Kerr Environmental Research Lab Unknown

DESCRIPTION: Article: "Processes Affecting the Remediation of Chromium-Contaminated Sites".

18. 3. . . Vol. 1 - 1030082 DOC ID: 41941 IMAGED

DATE: 3/22/94 PAGES: 1

AUTHOR(S): ADDRESSEE(S):
ResinTech, Inc. Unknown

DESCRIPTION: Material Safety Data Sheet regarding resins.

18. 3. . . Vol. 1 - 1030270 DOC ID: 67430 IMAGED

DATE: 5/1/85 PAGES: 3

AUTHOR(S): ADDRESSEE(S):
Northwest Cone Exploration EPA

DESCRIPTION: Brochure regarding cone penetrometer testing truck.



STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

P.O. Box 47600 • Olympia, Washington 98504-7600
(360) 407-6000 • TDD Only (Hearing Impaired) (360) 407-6006

September 24, 1997

Mr. Chuck Clarke
Regional Administrator
United States Environmental Protection Agency, Region 10
1200 Sixth Avenue
Seattle, Washington 98101

Dear Mr. *Chuck* Clarke:

The Washington State Department of Ecology has reviewed the Interim Record of Decision (ROD) for the Site-Wide Ground Water Operable Unit of the Boomsnub/Airco (BOC Gases) Superfund Site located in Clark County, Vancouver, Washington. We understand that this action is an administrative procedure needed to secure long-term funding (Remedial Action Funds). We concur with the following selected remedies, described in Section 10 of the document:

- Operation and maintenance of the existing extraction/treatment system;
- Installation of additional monitoring wells near the leading edge of the plume to determine the need for more extraction wells, and connection of additional wells to the extraction network, if necessary;
- Upgrade some extraction wells and vaults as necessary to prevent infiltration of water during storm events; and
- Acquisition or construction of office space and storage area for the extraction/treatment and telemetry systems, new and used resin, as well as for tools, parts and equipment needed for operation and maintenance of the system.

We recognize that this is an interim measure which does not address the soil operable units and that contaminants will remain on-site. The selected remedies are consistent with the Model Toxics Control Act Regulation (Chapter 173-340 WAC); however, revised and/or additional Applicable or Relevant and Appropriate Requirements (ARARs) will be identified by the Department of Ecology for the final ROD.

We are looking forward to continued cleanup activities at this site.

Sincerely,

Mary E. Burns
Mary E. Burns, Program Manager
Toxics Cleanup Program

MEB:cp

cc: Dan Alexanian, Toxics Cleanup Program, SW Regional Office, Ecology
Site file

