

**APPENDIX B  
HEALTH AND SAFETY PLAN**

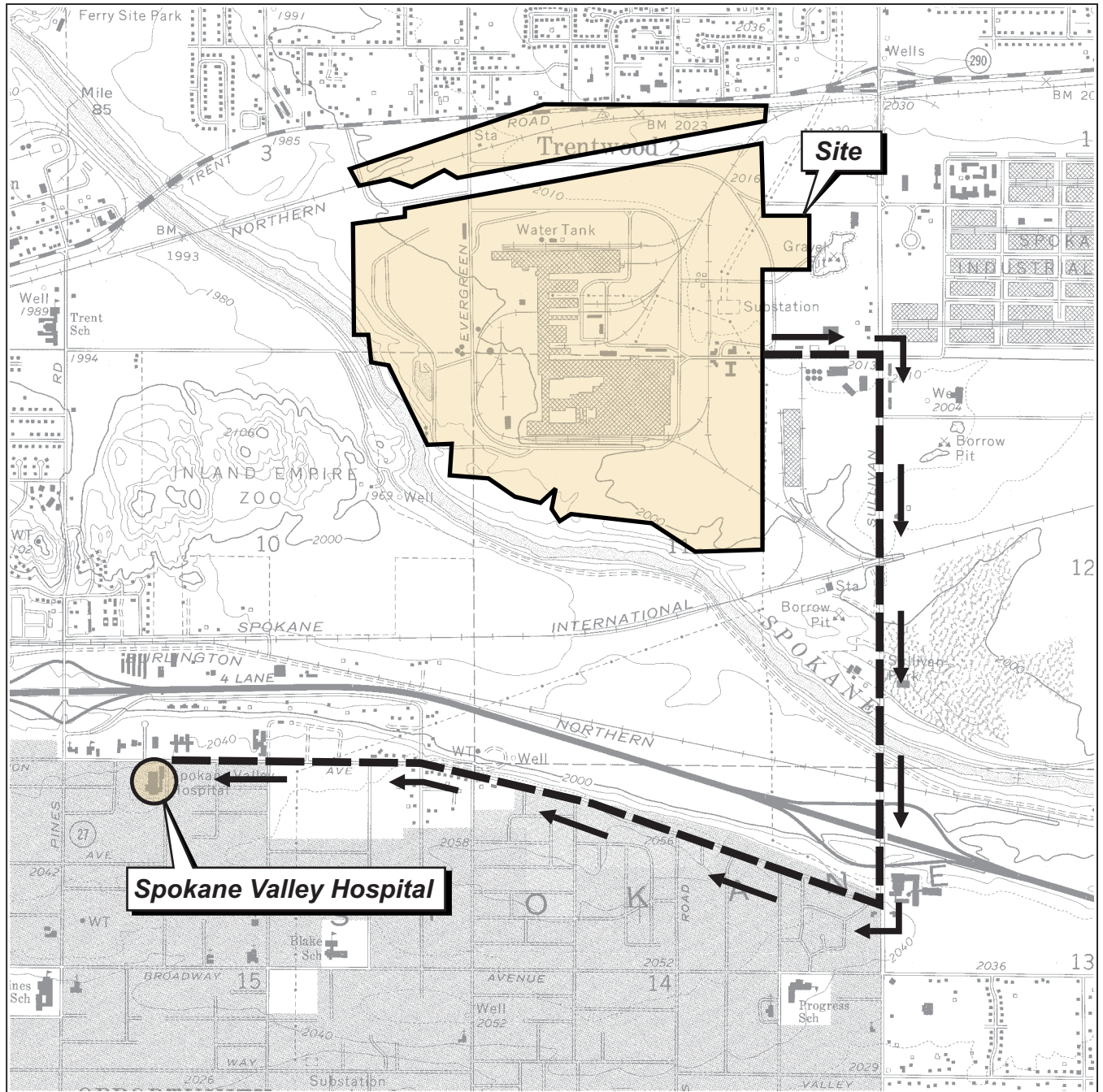
**APPENDIX B  
HEALTH AND SAFETY PLAN  
KAISER ALUMINUM FABRICATED PRODUCTS, LLC  
TRENTWOOD WORKS  
SPOKANE VALLEY, WASHINGTON**

**DATE PREPARED: MAY 21, 2007**

**EMERGENCY CONTINGENCY INFORMATION**

SITE LOCATION	Kaiser Aluminum Fabricated Products, LLC Trentwood Works East 15000 Euclid Avenue Spokane Valley, Washington 99215
NEAREST HOSPITAL	Valley Hospital and Medical Center East 12606 Mission Spokane Valley, Washington (509) 922-9466 The route from the facility to the hospital is depicted on Figure B-1.
EMERGENCY RESPONDERS	Police Department ..... 911 Fire Department..... 911 Ambulance ..... 911
EMERGENCY CONTACTS	Hart Crowser, Seattle Office..... (206) 324-9530 Facility Contact, Dave Rickman .....Desk (509) 927-6159 Cell (509) 981-6896 East Gate Guard House ..... (509) 927-6111
IN EVENT OF EMERGENCY, CALL FOR HELP AS SOON AS POSSIBLE	Give the following information: ➔ <b>Where You Are.</b> Address, cross streets, or landmarks ☎ <b>Phone Number</b> you are calling from ?? <b>What Happened.</b> Type of injury, accident # <b>How many persons</b> need help ?? <b>What is being done</b> for the victim(s) !! <b>You hang up last.</b> Let whomever you called hang up first

# Route to Hospital Map



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**Note:** Base map prepared from USGS 7.5 minute quadrangle map of Greenacres, Washington, dated 1973.



## SITE HEALTH AND SAFETY PLAN SUMMARY

SITE NAME: Kaiser Trentwood

LOCATION: Spokane Valley, Washington

CLIENT: Kaiser Aluminum Fabricated Products, LLC.

PROPOSED DATES OF ACTIVITIES: July to September 2007.

TYPE OF FACILITY: Aluminum Rolling Mill.

LAND USE OF AREA SURROUNDING FACILITY: Industrial, some residential.

SITE ACTIVITIES: Contaminated soil excavation, surface and stockpile soil sampling, soil screening and disposal, fill and grade excavated areas, site restoration.

POTENTIAL SITE CONTAMINANTS: Polychlorinated biphenyls (PCBs), Total Petroleum Hydrocarbons (TPH), and Semivolatile Organic Compounds (SVOCs).

ROUTES OF ENTRY: Airborne vapors and dust; skin contact with soil, free phase product, and incidental ingestion of soil.

PROTECTIVE MEASURES: Engineering controls, safety glasses, safety boots, hard hat, gloves, protective clothing, and respirators.

MONITORING EQUIPMENT: MultiRAE Photoionization Detector (PID) with 10.6 eV lamp.

## B.1 INTRODUCTION

### ***B.1.1 Purpose and Regulatory Compliance***

This Site-Specific Health and Safety Plan (H&S Plan) addresses procedures to minimize the risk of chemical exposures, physical accidents to on-site workers, and environmental contamination. The H&S Plan covers each of the 11 required plan elements as specified in 29 CFR 1910.120 or equivalent state regulations. Table B-1 lists the sections of this plan which apply to each of these required elements. When used together with the Hart Crowser General H&S Plan, this site-specific plan meets all applicable regulatory requirements.

**Table B-1 - Location of Required Health and Safety Plan Elements in This Site-Specific H&S Plan**

<b>Required H&amp;S Plan Element</b>	<b>Section in this Health and Safety Plan</b>
Confined space entry	B.2.6 Other Physical Hazards
Decontamination	B.7 Decontamination
Emergency response plan	B.11 Emergency Response Plan
Medical surveillance	B.12 Medical Surveillance
Monitoring program	B.2.3 Air Monitoring and Action Levels
Names of key personnel	B.1.3 Chain of Command
Personal protective equipment	B.3 Protective Equipment, B.4 Safety Equipment List
Safety and hazard analysis	B.2 Hazard Evaluation and Control Measures
Site control	B.5 Exclusion Areas, B.9 Site Security and Control
Spill containment	B.10 Spill Containment
Training	B.13 Training Requirements

### ***B1.2 Distribution and Approval***

This H&S Plan will be made available to all Hart Crowser personnel involved in field work on this project. It will also be made available to subcontractors and other non-employees who may need to work on the site. For non-employees, it must be made clear that the plan represents minimum safety procedures and that they are responsible for their own safety while present on site. The plan has been approved by the Hart Crowser Corporate Health and Safety (H&S) Manager. By signing the documentation form provided with this plan (Table B-5 located at the end of plan), project workers also certify their approval and agreement to comply with the plan.

#### ***B.1.3 Chain of Command***

The chain of command for health and safety on this project involves the following individuals:

#### **Project Manager: William Abercrombie**

The Project Manager has overall responsibility for the successful outcome of the project. The Project Manager, in consultation with the Corporate H&S Manager, makes final decisions regarding questions concerning the implementation of the

site-specific H&S Plan. The Project Manager may delegate this authority and responsibility to the Project and/or Field H&S Managers.

### **Corporate H&S Manager: Mike Ehlebracht**

The Hart Crowser Corporate H&S Manager has overall responsibility for preparation and modification of this H&S Plan. In the event that health and safety issues arise during site operations, he will attempt to resolve them in discussion with the appropriate members of the project team.

### **Project H&S Manager: To be determined**

The Project H&S Manager has overall responsibility for health and safety on this project. This individual ensures that everyone working on this project understands this H&S Plan. This individual will maintain liaison with the Hart Crowser Project Manager so that all relevant health and safety issues are communicated effectively to project workers.

### **Field H&S Manager: To be determined**

The Field H&S Manager is responsible for implementing this H&S Plan in the field. This individual also observes subcontractors to verify that they are following these procedures, at a minimum. The Field H&S Manager will also assure that proper protective equipment is available and used in the correct manner, decontamination activities are carried out properly, and that employees have knowledge of the local emergency medical system should it be necessary.

## ***B.1.4 Site Work Activities***

The following work tasks will be accomplished for the WDR Interim Action:

- Excavation of contaminated soil in the ravine;
- Surface soil sampling;
- Soil stockpile sampling;
- Soil screening and disposal; and
- Site restoration.

### ***B.1.5 Site Description***

The site is an active aluminum rolling mill. The work will be performed in a natural ravine located west of the rolling mill, adjacent to the Spokane River. This work area is outside of the mill operation area.

## **B.2 HAZARD EVALUATION AND CONTROL MEASURES**

### ***B.2.1 Toxicity of Chemicals of Concern***

Based on previous site information and knowledge of the types of activities conducted at the Kaiser Trentwood Facility, the following chemicals may be present at this site: PCBs and TPH. Additionally, SVOCs including polycyclic aromatic hydrocarbons (PAHs), may be present.

Health hazards of these chemicals are discussed below. This information covers potential toxic effects which might occur if relatively significant acute and/or chronic exposure were to happen. This information does not mean that such effects will occur from the planned site activities. In general, the chemicals, which may be encountered at this site, are not expected to be present at concentrations that could produce significant exposures. The types of planned work activities and use of monitoring procedures and protective measures will limit potential exposures at this site.

These standards are presented using the following abbreviations:

- PEL    Permissible exposure limit.
- TWA    Time-weighted average exposure limit for any 8-hour work shift.
- STEL    Short-term exposure limit expressed as a 15-minute time-weighted average and not to be exceeded at any time during a work day.

### **PCBs**

PCBs is a generic term for a range of polychlorinated biphenyl compounds used commercially in heat transfer media and in the chemical/coatings industry. PCBs have been marketed commercially under the trade names Askarel<sup>®</sup> and Aroclor<sup>®</sup>, with a designation referring to the percent weight of chlorine. Prolonged skin contact with PCBs may cause acne-like symptoms, known as chloracne. Irritation to eyes, nose, and throat may also occur. Acute and chronic exposure can cause liver damage, and symptoms of edema, jaundice,