

### SITE SAFETY AND HEALTH PLAN (SSHP)

PROJECT DATE: \_\_\_\_\_

CLIENT: **Arcadis**

SITE NAME: **Busick-Gearing Properties**

PROJECT/TASK I.D. NO.: **UST Removal**

SITE ADDRESS: **6341 Scarlett Court, Dublin, Ca.**

*6331*

*6331 (LOP)  
Scarlett Ct.*

*Busick Northern  
California Heat Pumps, Inc.*

#### SSHP APPROVALS

<b>PROJECT MANAGER:</b>	<b>James Hickle</b>	_____	_____
	Name	Signature	Date

<b>SUPERVISOR:</b>	_____	_____	_____
	Name	Signature	Date

<b>SITE SAFETY OFFICER:</b>	<b>KEVIN TERRIO</b>	_____	_____
	Name	Signature	Date

<b>DIRECTOR OF ENVIRONMENTAL HEALTH &amp; SAFETY:</b>	<b>Kevin Terrio</b>	_____	_____
	Name	Signature	Date

<b>SECTION 1.0</b>	<b>GENERAL INFORMATION</b> Introduction; Site Personnel
<b>SECTION 2.0</b>	<b>PROJECT INFORMATION</b> Site Description; Purpose of Work; Scope of Work/Tasks
<b>SECTION 3.0</b>	<b>HEALTH AND SAFETY RISK ANALYSIS</b> Hazard Analysis; Non-Chemical Hazards; Site Contaminants; Chemical Hazards; Tables 3-1, 3-2 and 3-3
<b>SECTION 4.0</b>	<b>HEALTH AND SAFETY FIELD IMPLEMENTATION</b> PPE; Monitoring Equipment; Site Zones/Delineation; Communication; Tables 4-1 and 4-2
<b>SECTION 5.0</b>	<b>SITE OPERATION PROCEDURES</b> Initial Procedures; Daily Procedures; Decontamination Procedures
<b>SECTION 6.0</b>	<b>EMERGENCY RESPONSE PLAN</b> Incident Procedures; Injury Procedures; Posted Emergency Telephone Number; Hospital Map

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#### SECTION 1.0

**GENERAL INFORMATION**

**1.1 Introduction:**

This Site Safety and Health Plan (SSHP) addresses those activities associated with the scope of work stated in the SSHP and will be implemented by the Site Safety Officer (SSO) during site work. Compliance with this SSHP is required of all persons and third parties that enter this site. Compliance with this SSHP is required of all persons and third parties that enter this site. Assistance in implementing this plan can be obtained from the Site Safety Officer and Project Manager, and/or the Director of Environmental Health and Safety (DEHS). The content of this SSHP may change or undergo revision based upon addition information made available to health and safety (H&S) personnel, monitoring results or changes in the scope of work. Any change proposed must be reviewed by H&S staff and are subject to approval by the DEHS and Project Manager.

This SSHP has been written for the use of The Company and its employees. It may also be used as a guidance document by properly trained and experienced COMPANY subcontractors. However, COMPANY does not guarantee the health or safety of any person entering this site.

Due to the potentially hazardous nature of this site and the activity occurring thereon, it is not possible to discover, evaluate, and provide protection for all possible hazards, which may be encountered. Strict adherence to the health and safety guidelines set forth herein will reduce, but not eliminate, the potential for injury at this site. The health and safety guidelines in this plan were prepared specifically for this site and should not be used on any other site without prior research by trained health and safety specialists.

COMPANY claims no responsibility for the use of this plan by unauthorized persons. This plan is written for the specific site conditions, purpose, dates, and personnel specified and must be amended if these conditions change.

**1.2 Site Personnel:**

Personnel authorized to enter the subject site while operations are being conducted must be approved by the DEHS. Authorization requires confirmation of conformance with OSHA 29 CFR 1910.120 training and medical examination requirements and/or other applicable regulations and review/sign-off of this SSHP.

*(See Attachment 1 for Personnel Responsibilities and Qualifications)*

**SITE SAFETY OFFICER:** Kevin Terrio \_\_\_\_\_ **PHONE:** (661) 201-6718

**SUBCONTRACTOR(S):** \_\_\_\_\_ **PHONE:** \_\_\_\_\_

**SECTION 2.0**

**PROJECT INFORMATION**

**2.1 Site Description (include unusual site features; current site status; historical uses):**

Old Auto repair and maintenance building

*(See Attachment 2 for Site Map(s))*

**Chemical Storage Area**

Gasoline and waste oil

**2.2 Purpose of Site Work:**

Removal of two underground storage tanks, 1 X 500gal Waste Oil  
1X1000gal Gasoline

**2.3 Scope of Work (by task - in order of execution):**

*(See Attachment 3 for Utility Clearance Check and Utility Location Map)*

1. *Remove and bulk liquid*
2. *Inert Tanks*
3. *Pull tanks and load on flatbed*
4. *Pull samples of soil below tanks*
5. *Transport tanks and bulked liquids to disposal*
6. *Backfill as instructed by Arcadis*

## **SECTION 3.0**

### **HEALTH AND SAFETY RISK ANALYSIS**

#### **3.1 Hazard Analysis:**

Non-chemical hazards are associated with:

Work around heavy equipment  
Small power tools (Sawsall)

Chemical hazards are associated with:

Organic Lioquids (Gasoline and Motor Oil)

#### **3.2 Non-Chemical Hazard Summary:**

*(See Table 3-1 for Summary Assessment of Non-Chemical Hazards)*

#### **3.3 Site Contaminant Source(s) and Data:**

*(See Table 3-2 for List of Known/Probable Contaminants and /or Applicable Analytical Data Reports)*

#### **3.4 Chemical Hazard Summary:**

*(See Table 3-3 for Summary Assessment of Chemical Hazards)*

## SECTION 4.0

### HEALTH AND SAFETY FIELD IMPLEMENTATION

#### 4.1 Personal Protective Equipment (PPE) Requirements:

PPE may be upgraded or downgraded by the site industrial hygienist, EHSO, or qualified Site Safety Officer based upon site conditions and air monitoring results. Reference to required PPE will be by Level of Protection (A-D). A summarized description of minimum required PPE by level of protection is indicated below:

- LEVEL A Self-contained breathing apparatus (SCBA) or supplied air respirator (SAR) with escape SCBA; totally-encapsulating suit; chemical resistant boots and gloves; two-way radio communications.
- LEVEL B SCBA or SAR with escape SCBA; chemical-resistant suit, boots, gloves.
- LEVEL C Air Purifying respirator (half or full face); chemical-resistant suit, boots, gloves.
- LEVEL D Coveralls, chemical-resistant boots, safety glasses.

*(See Table 4-1 for PPE Requirements)*

#### 4.2 Monitoring Equipment Requirements:

Monitoring is conducted by the Site Safety Officer or designee. Conduct contaminant source monitoring initially. Complete breathing zone monitoring if source concentrations are near or above contaminant action level concentrations. Log direct reading on Direct Reading Report form. Calibrate monitoring instruments daily or in accordance with manufacturer's specifications. Record calibration data on the Instrument Calibration Log.

*(See Table 4-2 for Monitoring Protocols and Contaminant Action Levels)*

*(See Attachment 4 for Direct Reading and Instrument Calibration Log)*

**4.3 Site Zones/Delineation:**

**Exclusion Zone:** The zone where contamination does or could occur. This zone is where the majority of hazardous material is handled.

**Contamination Reduction Zone:** At perimeter of Exclusion Zone.

**Support Zone:** Outside of Contamination Reduction Zone.

**4.4 Site Communication:**

X By two radio

X By telephone

By pager

By other means (describe): i.e., Air Horn

Note: For portable telephone and/or pager assignments, call (661) 636-3472 (Lonnie) for information.

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\* Monitoring performed at operator's breathing zone.

\*\* Call the Regional Environmental Health and Safety Coordinator for consultation.

PID = Photonization Detector (HNU, TIP, OVM)

FID = Flame Ionization Detector (OVA)

LEL = Lower Explosive Limit; represents the minimum concentration of combustible vapor in the air that will ignite, if an ignition source is present (expressed in % by volume)

LEL-O2 = LEL and Oxygen Meter

CT = Colorimetric Gas Detector Tube

## SECTION 5.0

### SITE OPERATING PROCEDURES

#### 5.1 Initial Site Entry Procedures:

- Locate nearest available telephone. Indicate location on Site Map.
- Determine wind direction; establish hotline, and set-up decontamination facilities. Note wind direction and location of decontamination facilities on Site Map.
- Post Emergency Information. Confirm/post emergency phone numbers and hospital route.
- Designate at least one vehicle for emergency use.
- If toilet facilities are not located within a 5 minute walk from the decontamination facilities, either provide a chemical toilet and hand washing facilities, or have vehicle available (not the emergency vehicle) for transport to nearby facilities.
- Prior to working on-site, conduct an inspection for physical and chemical hazards.
- Conduct or review utility clearance prior to start of work, if appropriate.
- Note any specialized protocols particular to work tasks associated with the project.

#### 5.2 Daily Operating Procedures:

- Hold daily Tailgate Safety Meeting prior to work start.

*(See Attachment 5 for Tailgate Safety Meeting Form)*

- Use monitoring instruments and follow designated protocol and contaminant action levels.
- Use personal protective equipment (PPE) as specified.
- Remain upwind of operations and airborne contaminants, if possible.
- Establish a work/rest regime when ambient temperatures and protective clothing create a potential heat stress hazard.
- Do not carry cigarettes, gum, etc., into contaminated areas.
- Refer to Site Safety Officer for specific concerns for each individual site task.



- **ALWAYS EMPLOY THE BUDDY SYSTEM**
- Be alert to your own physical condition. Watch buddy for signs of fatigue, exposure, etc.
- All accidents, no matter how minor, must be reported immediately to the Site Safety Officer.

### 5.3 Decontamination (Decon) Procedures (Personnel and Equipment):

- Personnel decontamination procedures will be required when Level C or higher levels of protection are used by personnel.

*(See Attachment 6 for equipment needed to perform decon and procedures to be used for decontamination of personnel)*

- Dry wipe samples prior to packaging.
- Brush clean the sampling equipment and rinse with distilled water or other cleaning solution.
- Wipe clean the monitoring equipment.
- Equipment will be brushed clean and/or pressure-washed if heavily contaminated.
- Decontamination will be performed in a manner that minimizes waste generation.
- Containment systems will be set up as necessary for collection of decon solutions.
- Spent decon solutions will be contained in drums or portable tanks and disposed of as waste, if applicable.
- Do not walk through areas of obvious or known contamination, and do not handle or touch contaminated materials directly.
- Make sure all PPE has no cuts or tears prior to donning.
- Fasten all closures on suits, covering with tape, if necessary.
- Care should be taken to limit the extent that a piece of equipment comes into contact with contamination (e.g., on backhoes - limit contact to the arm and bucket).

**5.4 Additional Health and Safety Protocols:**

- For Confined Space Entry operations, follow all requirements of COMPANY Policy and Procedure HS 14.0.

**SECTION 6.0****EMERGENCY RESPONSE PLAN****6.1 Emergency Incident Procedures:**

*If an emergency incident occurs, take the following action:*

- Step 1:** Notify the Site Safety Officer and Field Supervisor and size-up situation based on available information.
- Step 2:** As necessary, request assistance from outside sources and /or allocate personnel and equipment resources for response.
- Step 3:** Survey and assess existing and potential hazards.
- Step 4:** As appropriate, evacuate site personnel and nearby public and contain hazards.
- Step 5:** Prepare Incident Report.

**6.2 Emergency Injury Procedures:**

*If an emergency incident occurs, take the following action:*

- Step 1:** Get medical attention for the injured person immediately.
- Step 2:** Notify the Site Safety Officer and Field Supervisor.
- Step 3:** Depending on the type and severity of the injury, notify the Regional Occupational Physician.
- Step 4:** Notify the injured person's Human Resources office.
- Step 5:** Prepare the Incident Report. The Site Safety Officer is responsible for its preparation and submittal to the Director of Environmental Health and Safety (DEHS) and Human Resources Office within 24 hours.

**Step 6:** The Site Safety Officer will assume charge during a medical emergency.

### 6.3 Emergency Telephone Numbers:

#### TO BE POSTED

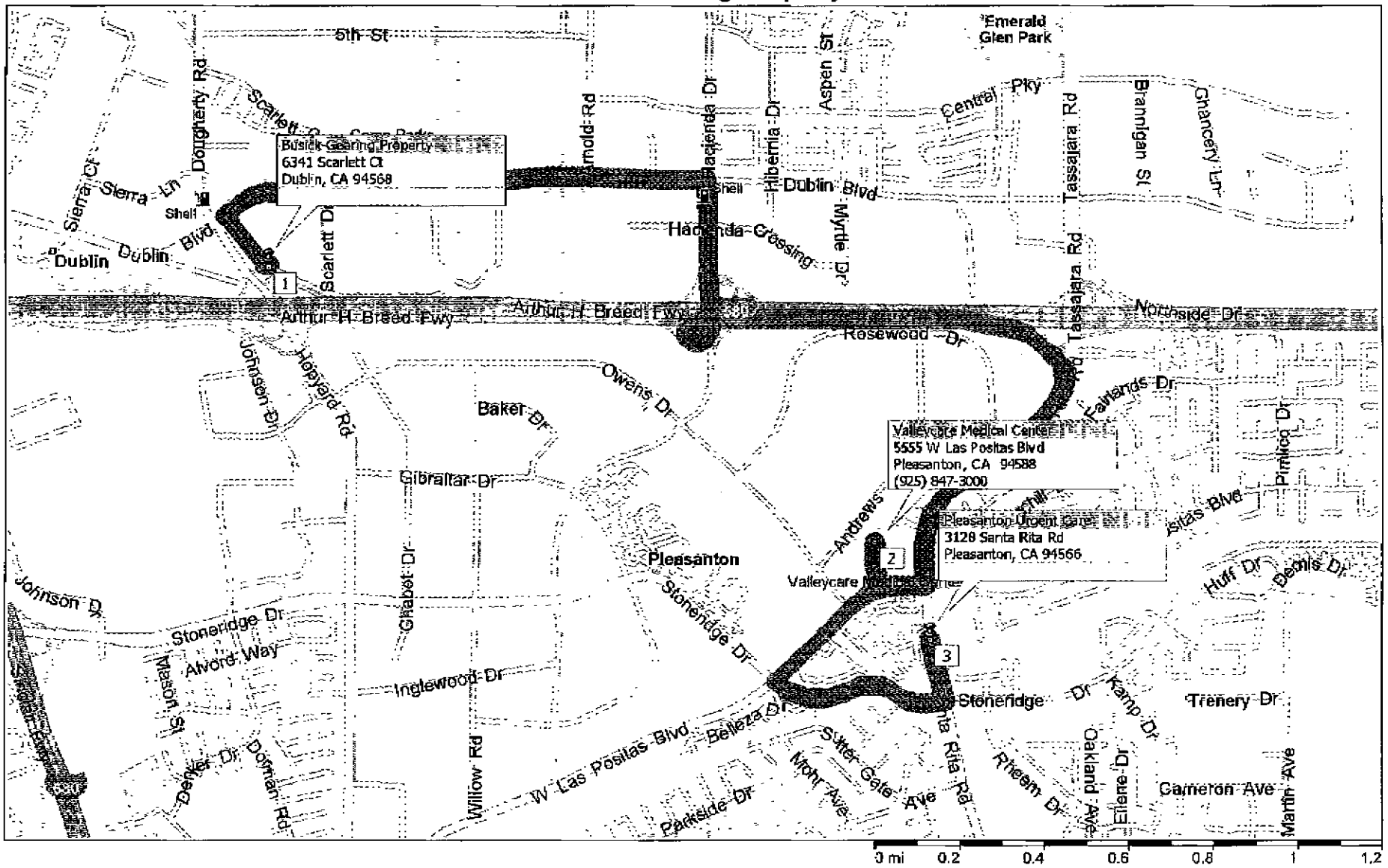
TITLE	NAME	PHONE NO.
Police Department	Police	<u>911</u>
Fire Department	Fire/Emergency	911
Local Urgent Care	Pleasanton Urgent Care	(925) 462-9300
Hospital	Valley	(925) 847-3000
Local Ambulance/Rescue	Paramedic	911
Director of Environmental Health & Safety	Kevin Terrio	(661)392-0113 Mobile(661) 477-6006
Client Contact	David Gomes	(510) 918-8121
Project Manager	Jim Hickle	(661) 303-3774
Site Safety Officer	Kevin Terrio	(661) 477-6006

### 6.4 Hospital

Name: Valley Medical Center  
 Address: 5555 W. Las Positas Blvd, Dublin, Ca.  
 Phone: (925)847-3000  
 Route: See Attached

*See Hospital route Map on Following page (to be posted)*

### Busick-Gearing Property



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 © Copyright: 2002 by Geographic Data Technology, Inc. All rights reserved. © 2004 NAVTEQ. All rights reserved. This data includes information taken with permission from Canadian authorities © Her Majesty the Queen in Right of Canada.

- 9:00 0.0 mi ■ Depart Busick-Gearing Property [6341 Scarlett Ct, Dublin, CA 94568] on Scarlett Ct (West) for 0.2 mi
- 9:00 0.2 mi Turn RIGHT (North-East) onto Dublin Blvd for 1.2 mi
- 9:02 1.3 mi Turn RIGHT (South) onto Hacienda Dr for 0.4 mi
- 9:03 1.7 mi Take Ramp (RIGHT) onto I-580 [Arthur H Breed Fwy] for 0.8 mi towards I-580 / Stockton
- 9:04 2.5 mi Take Ramp (RIGHT) onto Santa Rita Rd for 1.0 mi towards Tassajara Road / Santa Rita Road
- 9:05 3.4 mi Turn RIGHT (West) onto W Las Positas Blvd for 0.1 mi
- 9:06 3.5 mi Turn RIGHT (North) onto Local road(s) for 98 yds
- 9:06 3.6 mi Bear RIGHT (North) onto Local road(s) for 109 yds
- 9:07 3.6 mi ☒ At Valleycare Medical Center [5555 W Las Positas Blvd, Pleasanton, CA 94588, (925) 847-3000], return South on Local road(s) for 109 yds
- 9:07 3.7 mi Bear LEFT (South) onto Local road(s) for 98 yds
- 9:08 3.8 mi Turn RIGHT (West) onto W Las Positas Blvd for 0.3 mi
- 9:09 4.1 mi Turn LEFT (South-East) onto Stoneridge Dr for 0.4 mi
- 9:10 4.5 mi Turn LEFT (North) onto Santa Rita Rd for 0.2 mi
- 9:10 4.7 mi ■ Arrive 3128 Santa Rita Rd, Pleasanton, CA 94566

## ATTACHMENT 1

### PERSONNEL RESPONSIBILITIES AND QUALIFICATIONS

<u>Name</u>	<u>Soc. Sec. #</u>	<u>Experience</u>

## ATTACHMENT 2

### SITE MAP (S)

[Applicable Site Map(s) will be included]

**ATTACHMENT 3**  
**MATERIAL SAFETY DATA SHEETS**

[Actual MSDS will be included as attachment]



**ATTACHMENT 4**  
**CONFINED SPACE ENTRY PERMIT**  
**(SAMPLE FORM)**

**ATTACHMENT 5**  
**TAILGATE SAFETY MEETING FORM**

**ATTACHMENT 6**  
**DECONTAMINATION EQUIPMENT**  
**AND**  
**PERSONNEL DECONTAMINATION PROCEDURES**

## DECONTAMINATION EQUIPMENT

- Station 1: Equipment Drop
- Various size containers
  - Plastic liners
  - Plastic drop cloths
- Station 2: Outer Garment, Boots, Gloves Wash and Rinse
- Containers (20-30 Gallons)
  - Decon Solution
  - Rinse water
  - Long-handled, scrub brushes (2-3)
- Station 3: Outer Boot and Glove Removal
- Containers (20-30 Gallons)
  - Plastic liners
  - Bench or stools
- Station 4: SCBA Cylinder Change
- SCBA Cylinders or Masks and Cartridges depending upon level
  - Tape
  - Boot covers
  - Gloves
- Station 5: Boot, Gloves, and Outer Garment Removal
- Container (20-30 Gallons)
  - Plastic liners
  - Bench or stools
- Station 6: SCBA Removal
- Plastic sheets
  - Basin or bucket
  - Soap and towels
  - Bench or stools
- Station 7: Field Wash
- Water
  - Soap
  - Tables
  - Wash basin or bucket

## LEVEL C PERSONNEL DECONTAMINATION

- |            |   |    |  |
|------------|---|----|--|
| Station 1: | Equipment Drop                                  | 1. | Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross contamination. During hot weather operations, cool down station may be set up within this area. |
| Station 2: | Outer Garments, Boots and Gloves Wash and Rinse | 2. | Scrub outer boots, outer gloves and splash suit with decon solution or detergent water. Rinse off using copious amount of water.   |
| Station 3: | Outer Boot and Glove Removal                    | 3. | Remove outer boots/gloves. Deposit in container with plastic liner.  |
| Station 4: | Respirator Cartridge or Mask Change             | 4. | If worker leaves Exclusion Zone to change cartridge (or mask), this is the last step in the decontamination procedure. Worker's respirator cartridge is exchanged, new outer gloves and boot covers donned, joints taped, and worker returns to duty.  |
| Station 5: | Boot, Gloves, and Other Garment Removal         | 5. | Boots, chemical-resistant splash inner gloves removed and deposited in separate containers lined with plastic.   |
| Station 6: | Respirator Facepiece Removal                    | 6. | Respirator facepiece is removed. Avoid touching face with fingers. Respirator facepiece deposited on plastic sheet.  |
| Station 7: | Field Wash                                      | 7. | Hands and face thoroughly washed. Shower as soon as possible.  |

## LEVEL B PERSONNEL DECONTAMINATION

- |            |   |   |
|------------|---|---|
| Station 1: | Equipment Drop                                  | 1. Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross contamination. During hot weather operations, cool down station may be set up within this area. |
| Station 2: | Outer Garments, Boots and Gloves Wash and Rinse | 2. Scrub outer boots, outer gloves and splash suit with decon solution or detergent water. Rinse off using copious amount of water.   |
| Station 3: | Outer Boot and Glove Removal                    | 3. Remove outer boots/gloves. Deposit in container with plastic liner.  |
| Station 4: | Respirator Cartridge or Mask Change             | 4. If worker leaves Exclusion Zone to change cartridge (or mask), this is the last step in the decontamination procedure. Worker's respirator cartridge is exchanged, new outer gloves and boot covers donned, joints taped, and worker returns to duty.  |
| Station 5: | Boot, Gloves, and Other Garment Removal         | 5. Boots, chemical-resistant splash inner gloves removed and deposited in separate containers lined with plastic.   |
| Station 6: | SCBA Removal                                    | 6. SCBA backpack and facepiece is removed. Avoid touching face with fingers. SCBA deposited on plastic sheet.   |
| Station 7: | Field Wash                                      | 7. Hands and face thoroughly washed. Shower as soon as possible.  |