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Appendix D-21 Building 696S Consolidation Waste Accumulation Area

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APPENDIX D-21

**BUILDING 696S CONSOLIDATION
WASTE ACCUMULATION AREA**

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BUILDING 696S CONSOLIDATION WASTE ACCUMULATION AREA

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APPENDIX D-21

BUILDING 696S CONSOLIDATION WASTE ACCUMULATION AREA

D1. INTRODUCTION

This appendix is designed to provide information specific to the Building 696S Consolidation Waste Accumulation Area (B-696S CWAA), a waste storage area. The appendix is not designed to be used as a sole source of information. All general information that is not specific to the B-696S CWAA is included in the Contingency Plan for Waste Accumulation Areas, dated July 2004, and should be referenced.

D1.1 General Information

Facility Name	B-696S CWAA
Department/Program	Environmental Protection Department
Site Operator	Regents, University of California Lawrence Livermore National Laboratory (LLNL) P.O. Box 808 Livermore, CA 94551
EPA ID No.	CA2890012584
Location	7000 East Avenue Livermore, CA 94550
LLNL Contact	Kerry Cadwell Responsible Individual Lawrence Livermore National Laboratory P.O. Box 808 (L-786) Livermore, CA 94551 Ph: (925) 422-8802
Owner	U.S. Department of Energy National Nuclear Security Administration Livermore Site Office P.O. Box 808, L-293 Livermore, CA 94551-0808
DOE Contact	Dan Nakahara Assistant Manager Environmental Stewardship Division U.S. Department of Energy NNSA/Livermore Site Office Phone: (925) 423-8394

D2. CWAA DESCRIPTION

D2.1 General Information

The B-696S CWAA is located in the northeast quadrant of the LLNL Main Site. The B-696S CWAA is located in B-696S, Room 1001, within the B-695 Segment of the LLNL Decontamination and Waste Treatment Facility (DWTF) (see **Figure D-1**).

D2.2 Physical Description

The B-696S CWAA is approximately 50 x 30-ft. Secondary containment pallets will provide containment for liquid wastes stored at the CWAA. A telephone is located in the CWAA (see **Figure D-2**). Eyewash/shower units are located on the west and east sides of the CWAA. Fire extinguishers are located on the north and south sides of the CWAA. A spill kit is located on the north side of the CWAA.

D2.3 Description of Waste Handled

Hazardous and mixed wastes may be stored at the B-696S CWAA for up to 90 days until it is either shipped directly offsite or sent to a Radioactive and Hazardous Waste Management (RHWM) facility prior to its ultimate disposition. Non-regulated waste may also be stored at the B-696S CWAA. **Table D-1** is intended to alert personnel to the potential hazards and wastes stored in the CWAA, but each situation should be evaluated based on the actual materials involved. Waste is stored in containers ranging from one-gallon paint cans to 330-gallon Tuff tanks. All liquid wastes in containers ≤ 55 gallons are stored on secondary containment pallets which can, if necessary, be used to hold released liquid wastes. These containment pallets guarantee the separation of liquid wastes from other incompatible wastes or materials and prevent liquid waste from coming into contact with any other surface liquids.

D3. RESPONSIBILITIES

The CWAA Coordinator, CWAA Operator, Environmental, Safety and Health (ES&H) Team 4 Leader, Environmental Operations Group (EOG) Analyst, RHWM Technician, and ES&H Technician are responsible for providing information and assistance in the event of an emergency. ES&H Team 4 is the support team for the B-696S CWAA. If additional support members are needed, the ES&H Team 4 Leader or EOG Analyst will notify those members. Program contacts and ES&H Team contacts are listed in **Table D-2**.

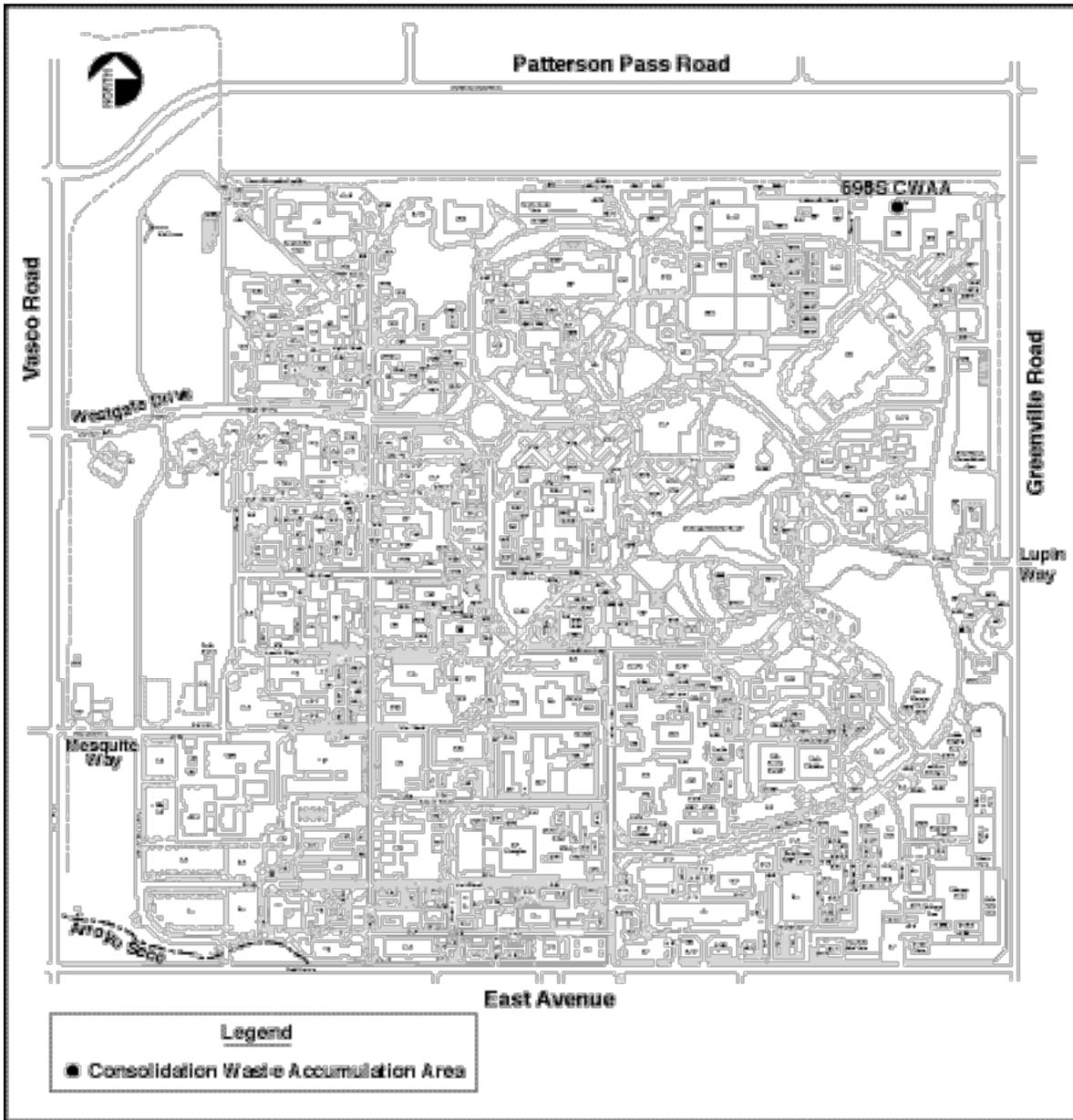


Figure D-1. Location of B-696S CWAA at LLNL Main Site

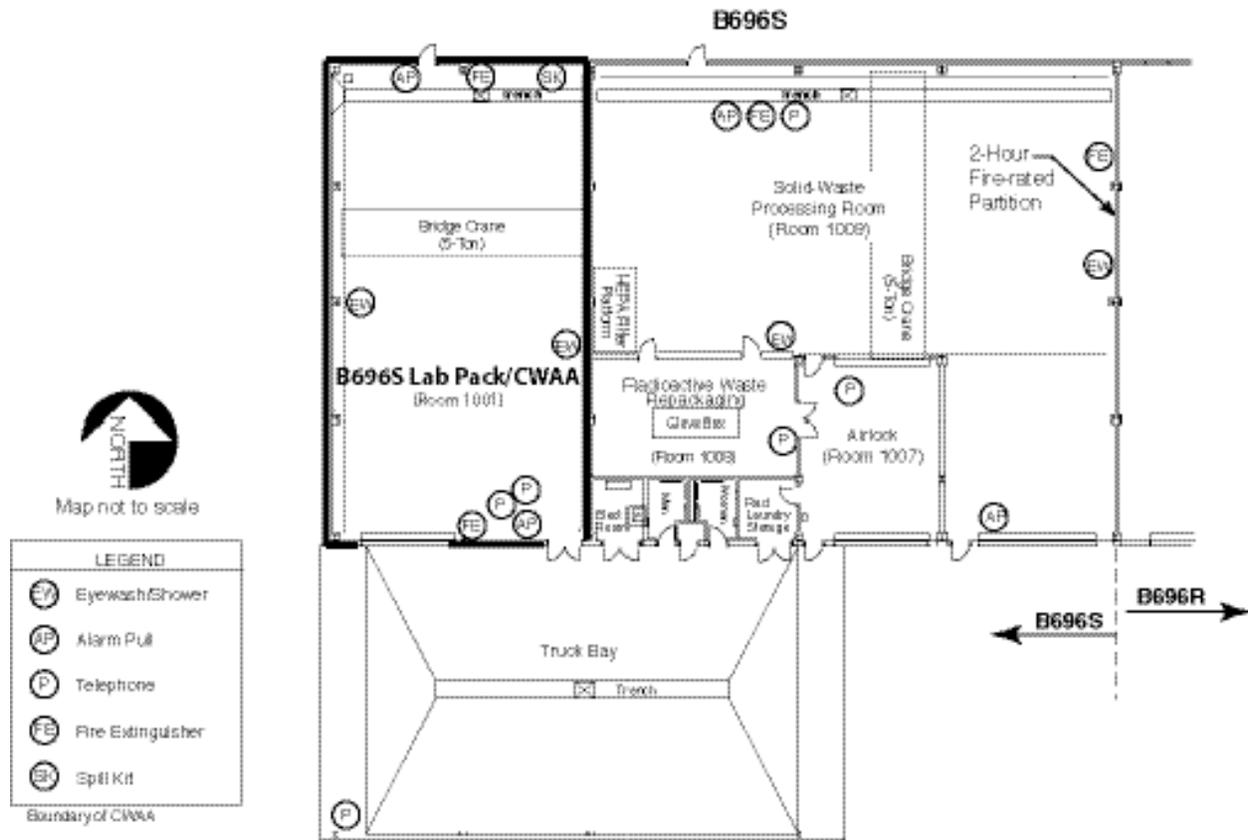


Figure D-2. B-696S CWAA Emergency Equipment

Table D-1. Potential Wastes Stored in Building 696S CWAA

Laboratory packed waste chemicals (reagents, spent solutions)
Laboratory waste—alkaline solutions, inorganic solutions, acids/metals, non-halogenated organics, halogenated organics, organics/metals/salt residues
Empty containers contaminated with product residues
Laboratory waste—trash (contaminated paper and rags, protective clothing, glassware, plasticware, tubing and fittings, wood and metal parts, HEPA filters contaminated with hazardous constituents)
Spill cleanup materials
Coolant wash water (machining operations)
Rinse water from retention tanks (organics, metals)
Slag removal (acids—chromic, nitric, Brite Dip)
Metals filings, scrap, or residues from machine shop
Print organics (copy machines, printer, print shop)
Print alkalines (copy machines, printer, print shop)
Photographic (fix, developer, bleach) weak acids/bases with metals/organics
Laser dye in solvent (Rhodamine B in methanol/1,2-dichloroethane)
Flammable liquid with impurities (gas, kerosene and other)
Solvents—non-halogenated (used in cleaning and degreasing)
Waste oil (with trace gasoline, diesel, organics, metals)
Contaminated equipment (vacuum pumps, ignition tubes, photographic equipment)
Discarded capacitors containing oil

Table D-2. Program Contacts and ES&H Team 4 Contacts

Contact	Name	Phone	Pager
CWAA Coordinator	Kerry Cadwell	422-8802	01344
CWAA Operator	Scott Cammauf	424-6215	03712
ES&H Team 4 Leader	Bill Wells	422-9915	04010
EOG Analyst	Richard Michalik	422-5010	04259
RHWM Technician	Scott Cammauf	424-6215	03712
ES&H Technician	Pedro Cabrera	424-4731	05446
Industrial Hygienist	Diana Larson	423-5468	04552

In an emergency, immediately notify the Alameda County Regional Emergency Communications Center at extension 911 or dial (925) 447-6880 if calling from off-site, cellular phone, or pay phone. If paging from off-site, cellular phone, or pay phone, dial (925) 423-7705 and pager number.

D4. EMERGENCY EQUIPMENT

D4.1 Emergency Equipment Available at the CWAA

The B-696S CWAA has spill kit supplies, fire extinguishers, eyewash/shower units, and telephones. The location, type, and quantity of spill kit supplies required for the operation of the B-696S CWAA are listed in **Table D-3**. Other emergency equipment required in this area is listed in **Table D-4**. The location of emergency equipment is shown in **Figure D-2**.

Table D-3. Spill Kit Supplies

Supplies	Quantity	Use	Location
Dry Sorb absorbent (silicate) or equivalent	50 lbs	Contain and absorb concentrated acids, bases, solvents, oils, hydraulic fluids, PCBs, organic solvents, and coolants. <i>NOT FOR USE ON HYDROFLUORIC ACID</i>	Spill kit
Polyethylene bags	6 ea	Line drums and contain contaminated absorbent or other solid waste.	Spill kit
Caustic spill kit	2 ea	Contain and clean up small incidents involving caustics. Follow instructions provided in spill kit.	Spill kit

Table D-3. Spill Kit Supplies (Continued)

Supplies	Quantity	Use	Location
Acid spill kit	2 ea	Contain and clean up small incidents involving acids. Follow instructions provided in spill kit. <i>NOT FOR USE ON HYDROFLUORIC ACID</i>	Spill kit
Broom (polypropylene or equivalent)	1 ea	Sweep absorbent material for ultimate placement in a waste container.	Spill kit
Shovel (aluminum, polypropylene or equivalent), nonsparking	1 ea	Scoop absorbent material for placement in waste containers.	Spill kit
Bung wrench, nonsparking	1 ea	Remove or replace bungs on drums.	Spill kit
Ratchet with 15/16-in. socket	1 ea	Remove or replace bolts from ring-top drums.	Spill kit
Gloves—Silvershield or 4-H	5 pairs	See Appendix A, Personnel Protective Equipment of the Contingency Plan for Waste Accumulation Areas, dated July 2004.	Spill kit
Gloves—neoprene or nitrile	8 pairs	See Appendix A, Personnel Protective Equipment of the Contingency Plan for Waste Accumulation Areas, dated July 2004.	Spill kit
Chemically resistant protective coveralls (Chemrel or equivalent)	3 ea	See Appendix A, Personnel Protective Equipment of the Contingency Plan for Waste Accumulation Areas, dated July 2004.	Spill kit
Boot covers—disposable PVC or polyethylene	6 pairs	See Appendix A, Personnel Protective Equipment of the Contingency Plan for Waste Accumulation Areas, dated July 2004.	Spill kit
Face shields	3 ea	Protect against chemical splashes.	Spill kit
Safety goggles	3 ea	Protect against chemical splashes.	Spill kit
Tape—2-in. duct	1 roll	Seal protective suits, gloves, and containers.	Spill kit

Table D-3. Spill Kit Supplies (Continued)

Supplies	Quantity	Use	Location
Tape—CAUTION DO NOT ENTER	1 roll	Cordon off incident area and alerts personnel of hazard.	Spill kit
Marker—permanent, waterproof	1 ea	Label containers.	Spill kit
pH test paper	1 ea	Quickly determine if material is acidic or alkaline.	Spill kit
Wipes (Kimwipe or equivalent)	1 box	Absorb water, solvents, and oils.	Spill kit

Table D-4. Emergency Equipment

Equipment	Quantity	Use	Location
Type ABC fire extinguisher	1 ea	Extinguish or control small electrical or flammable liquid fires. LLNL Fire Department must be called if a fire occurs.	On the north side of the CWAA.
Eyewash unit	1 ea	Flush eyes for 15 minutes.	On the north side of the CWAA.

D4.2 Communication Equipment

A telephone is located inside the CWAA.

D5. EVACUATION ROUTES AND ASSEMBLY POINT

The primary evacuation routes from B-696S CWAA are via the south entrance/exit doors with the alternate routes via the north entrance/exit doors. See **Figure D-3** for the evacuation route and assembly point.

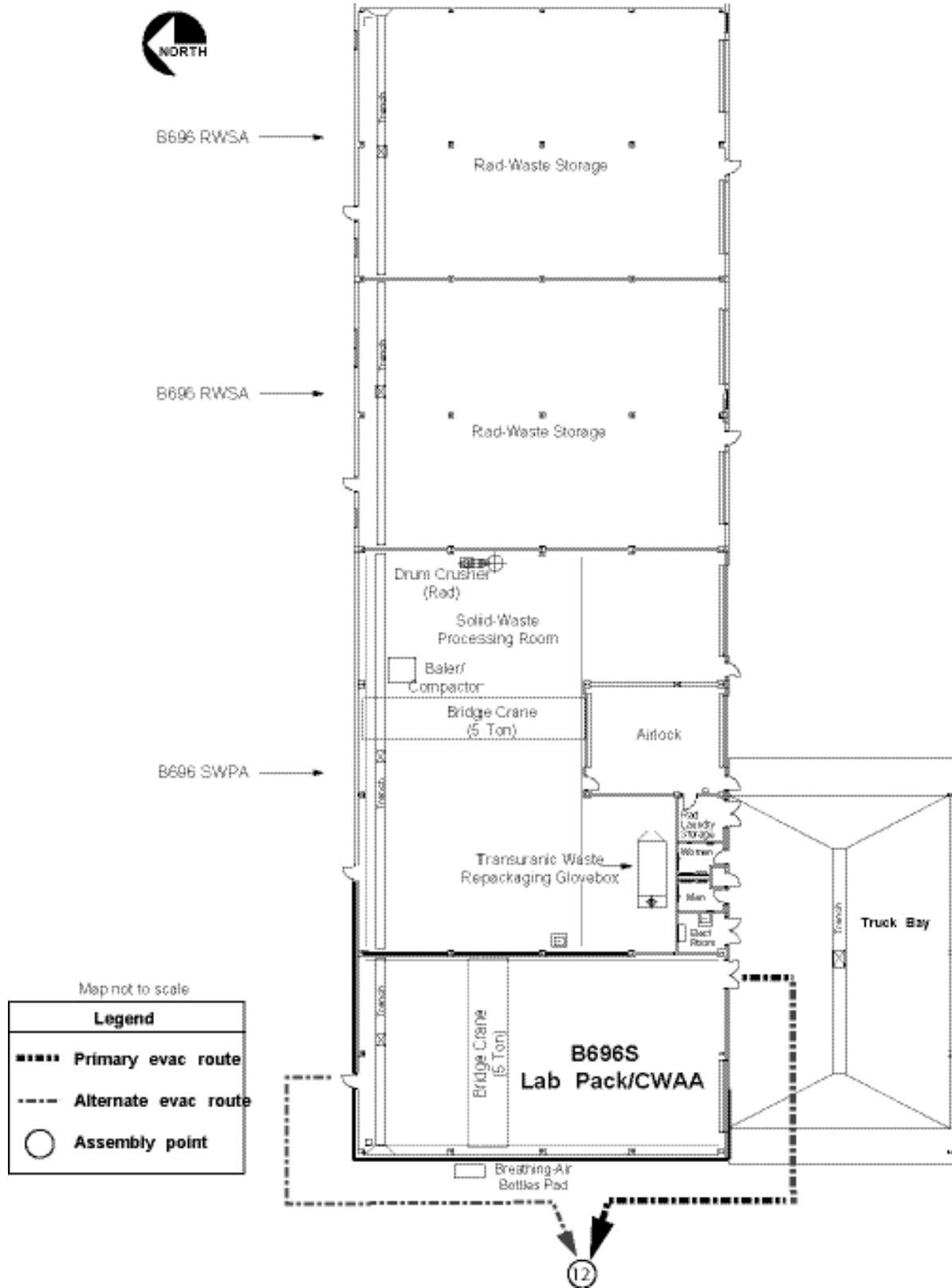


Figure D-3. B-696S CWAA Evacuation Routes