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CONTRA COSTA
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HAZARDOUS MATERIALS PROGRAMS

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CONTRA COSTA HEALTH SERVICES

COMPLAINT, INCIDENT, AND NOTIFICATION REPORT FORM

Type (Circle One): C I N

CASE NUMBER: 161029 - 02

Received Date: 10/29/16 Received Time: 17:02 Received By: TA Lead: TA

Incident Date: 10/29/16 Incident Time: Assigned to: Assigned Date:

COMPLAINANT / REPORTING PARTY:

Name: Con Fire (via Sheriff's Dispatch/Comm-1) RP is from Facility Anonymous

Organization:

Primary Phone Number: Secondary Phone Number:

Email:

Address:

City: State: Zip Code:

FACILITY /LOCATION OF INCIDENT:

Name: CUPA Facility I.D.:

Phone Number:

Address: 4042 Lost Canyon Ct Unit:

City: Antioch State: CA Zip Code: 94531

Location Description: Residence

INITIAL INCIDENT DESCRIPTION: Residence mixed incompatible chemicals in bathroom, causing a gas release

INCIDENT TYPE / DESCRIPTION:

Community Warning System Level (Circle Highest Level): N/A 0 1 2 3

FACILITY	ISO /MC AR	TRANSPORTATION	MISCELLANEOUS
<input type="checkbox"/> Fire or Explosion	<input type="checkbox"/> Fatality (one or more)	<input type="checkbox"/> Tank Truck	<input type="checkbox"/> Storm Drain/Creek
<input type="checkbox"/> Spill or Release	<input type="checkbox"/> > 24 hrs. Hospital, 3 or more people	<input type="checkbox"/> Railroad	<input type="checkbox"/> Drug Lab
<input type="checkbox"/> Startup or Shutdown	<input type="checkbox"/> Flammable Vapor Cloud > 5,000 lbs.	<input type="checkbox"/> On Water	<input type="checkbox"/> Disposal/Abandonment
<input type="checkbox"/> Flaring		<input type="checkbox"/> Pipeline	<input type="checkbox"/> Odor Complaint
<input type="checkbox"/> Upset		<input type="checkbox"/> Fuel Tank	<input checked="" type="checkbox"/> Other: See report

Time Enroute to Scene: Various Time Arrived On Scene: Various Time Departed From Scene: 21:50

REFERRED TO OTHER AGENCY:

DTSC STATE FUNDING (if applicable):

CLU/ERER Number:

STORMWATER STATUS (if applicable):

Actual Discharge Potential Discharge



AGENCIES ON SCENE OR NOTIFIED:

<u>Agency Type</u>	<u>Agency</u>	<u>O/N</u>	<u>Contact Person</u>	<u>Phone Number</u>	<u>Case Number</u>
Fire Department	Con Fire/E82	O	Capt. Dave Woods	(925) 698-6152	16104918
Law Enforcement					
Air District					
State OES					
Fire Department	Con Fire/E81 - Safety Officer	O	Capt. Jeff Landis		
	Con Fire/E81	O	Dan Brooks, Alan Muraka		
Ambulance	AMR/Medic 82	O	Eric Glickman/Morgan Connelly		

REPORT:

See attached narrative.


Additional Required Items: Bill of Lading, Request for Invoice, and Site Safety Plan

Report Prepared by: Trisha Asuncion



CONTRA COSTA
HEALTH SERVICES

INCIDENT REPORT
February 9, 2017

PREPARED BY: Trisha Asuncion, Hazardous Materials Specialist II
Contra Costa Health Services Hazardous Materials Programs (CCHSHMP) 

INCIDENT NO. 161029-02

INCIDENT DATE: Saturday, October 29, 2016

LOCATION: Residence
4042 Lost Canyon Ct.
Antioch, CA 94531

RESPONDING

TEAM MEMBER(S): Trisha Asuncion (lead), Ellen Dempsey, Maria Duazo, Devra Lewis, John Pham, Xavier Bryant, and Chris Tougeron

BACKGROUND

The incident involved tenants of a rented home pouring household chemicals—concentrated sulfuric acid drain cleaner and Liquid Plumb (with active ingredients sodium hypochlorite and sodium hydroxide) down the toilet in the bathroom nearest to the garage. It was reported that the tenants were trying to remove a clog at the toilet. This incident occurred earlier in the day, around noon, per the tenants. They had to leave the house for a few hours due to strong odor and fumes, which caused difficulty in breathing and burning sensation at the eyes. They had opened windows prior to leaving the home. On their return, the tenants noticed that the odor and fumes still remained in the house. At that time, they notified the police and fire departments.

INCIDENT NARRATIVE

CCHSHMP was contacted by Contra Costa County Fire Protection District (Con Fire) Captain Dave Woods of Engine 82 at 17:02 via Sheriff's Dispatch. He requested assistance from the Haz Mat Team to elucidate identify and mitigate the cause of the fumes inside the bathroom.

Asuncion dispatched all of the team to respond: Tougeron, Dempsey, and Bryant were directed to go directly to the incident location. Asuncion, Duazo, Lewis, and Pham proceeded to the office to retrieve the rigs and equipment. At 18:08, Duazo and Lewis departed from the office in HM1/6824; and Asuncion and Pham in HM2/6814. HM1 and HM2 arrived on scene at 18:28; Tougeron, Dempsey, and Bryant had traveled in their personally-owned vehicles and were already on scene at HM1 and HM2's arrival.

Asuncion made contact with Capt. Woods and discussed Haz Mat's approach. Because mitigation would entail a Haz Mat entry into the home, Capt. Woods requested Engine Company 81 to be on scene to set up the decontamination line. Additionally, he requested medical to be on scene – AMR/Medic 82—to help with medical monitoring and to be on standby for any injuries incurred during the Haz Mat response.



Response Roles Assignments/Incident Command

Incident Commander – Capt. Dave Woods

Safety Officer – Capt. Jeff Landis

Haz Mat Branch:

Hazardous Materials Group Supervisor – Trisha Asuncion

Assistant Safety Officer – Trisha Asuncion/Xavier Bryant

Entry Team Leader – Maria Duazo

Entry Teams – Chris Tougeron and Ellen Dempsey (primary); Devra Lewis and John Pham (back-up)

Tech Specialist-Ref – John Pham/Maria Duazo

Decontamination Leader – John Pham/Xavier Bryant

Decon – Engine 81, Dan Brooks and Alan Muraka

Technical Findings/PPE Recommendations

Given the strong acidity of the concentrated sulfuric acid drain cleaner mixing with the Liquid Plumber, a sodium hypochlorite and hydroxide solution, their incompatibilities may have resulted in numerous gaseous by-products that are harmful to human health. (See attached CAMEO Chemicals Reactivity Report). Specifically, Haz Mat discussed the possibility a resultant by-product of chlorine gas. This explained the tenants discomfort and the need to evacuate the house for a period of time. The amount of chemicals poured down the toilet was unknown, but the reaction had sustained long enough to last through at least 5 hours.

Tech-Ref, ASO, and Entry Team Leader determined that the Entry Teams would be suited in Level B personal protective equipment (PPE) with self-contained breathing apparatus (SCBA). Level A was considered, but would be impractical when trying to maneuver around the small confines of the bathroom. Given the situation, Level B seemed to be highly protective without limiting movement. Decon personnel would be suited in Level C with SCBA.

Entry/Decon Objectives

At 19:10 the pre-entry briefing was conducted by Asuncion and Duazo.

The first team in of Tougeron and Dempsey would conduct reconnaissance of the bathroom and mitigate, whenever possible. They would need to monitor for corrosivity with pH paper; if the area is corrosive, they cannot use the QRae or PID. They would also wear gas badges: chlorine for Tougeron and sulfur dioxide for Dempsey.

The second team of Lewis and Pham would provide back-up for the first team. Additionally, they would bring the chlorine gas badge to check the rest of the house for any residual chlorine.

Decon personnel would conduct a one-pool decon line using only water. pH paper would be used to check that the water had efficiently deconned the Entry Team.

Entry Timeline

19:20 Pre-entry medical monitoring by AMR for Haz Mat Group personnel

19:29 Radio check for Entry Team 1 (ET1); ET1 proceeded inside house through garage

19:32 No reading/change on pH oxidizer, QRae/PID

19:35 Inside bathroom – pH'd inside toilet and on bathroom floor – acidic

ET1 requested absorbent pads and neutralizing agent (baking soda and water) for clean up

ET2 brought absorbent pads and Hudson sprayer with baking soda/water solution inside the garage, near door leading to inside of home

19:40 Near toilet, chlorine badge was in alarm at 6.4 ppm

19:40 ET1 pumped out water from toilet using 5-gallon Shop Vac (found in bathroom)
ET1 used pads and neutralizing solution for clean-up
19:45 ET1 stopped pumping water from toilet; pH'd Shop Vac – pH 0
19:48 ET2 brought multiple drum liners and 5-gallon buckets to the garage – placed contaminated Shop Vac and clean-up debris/materials in drum liners and liquid contents in 5-gallon buckets
19:50 ET1 reported a chlorine hit at 37 ppm?
19:56 Clean-up by ET1 almost complete
20:02 ET1 proceeded to decon
20:12 ET1 out of decon; discussed with Entry Team 2 (ET2) their observations prior to ET2's entry
20:16 ET2 went in for 2nd entry – checking rest of house for chlorine before going to bathroom
20:24 ET2 pH'd bath tub - ~pH 2-4; turned on shower to help with dilution/neutralization; observed bathroom window was open
20:27 ET2 reported no readings from chlorine gas badge
20:29 ET2 placed chlorine gas badge over toilet – pH 0.1 ppm; pH'd floor – pH 8-9
20:31 ET2 double-bagged more clean-up materials
20:40 ET2 proceeded to decon
20:45 After decon of ET2, Haz Mat Group discussed any further actions
20:50 ET1 made final entry to monitor for any more hazards, post-mitigation; check floor; and flush toilet
20:54 ET1 reported floor was pH 8
20:56 ET1 reported additional spot that had a low pH; applied neutralizing agent onto that spot
21:00 ET1 flushed toilet; reported that neutralization appeared successful based on pH
21:06 ET1 reported chlorine gas badge reading 0.01 ppm; verified with Draeger tube (20 pumps)
21:12 ET1 removed the waste materials staged at the garage and brought outside where they can be properly labeled
21:13 ET1 proceeded to decon
21:27 AMR conducted post-entry medical monitoring
21:35 Post-entry briefing with IC, Haz Mat Group, and AMR

At 21:50, HM1/HM2 and Bryant, Dempsey, and Tougeron departed from the scene.

OTHER PERSONNEL ON SCENE/NOTIFIED

See Incident Report form.

ATTACHMENT(S)

- CAMEO Chemicals – Reactivity Report for sodium hydroxide solution, sulfuric acid, and sodium hypochlorite
- Photos taken on 10/29/2016 – drain cleaner and clog remover involved in incident
- ICS 208 HM – Site Safety and Control Plan
- Medical Monitoring Worksheet for Entry and Decon personnel – Pre- and Post-Entry Vitals
- Bill of Lading for waste materials from response activities
- Request for Invoice