

RECEIVED

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Contra Costa Health
Hazardous Materials

For CCHS Use Only:

Received By:

MK

Date Received:

2/28/22

Incident Number:

22022501

Copied To:

Event Classification Level:

1

ATTENTION: Matthew Kaufmann
Hazardous Materials Program Director
Contra Costa Health Services Department
4585 Pacheco Boulevard
Martinez, CA 94553

INCIDENT DATE: 2/25/2022

INCIDENT TIME: 04:00

FACILITY: Chevron Richmond Refinery

PERSON TO CONTACT FOR ADDITIONAL INFORMATION:

Laura Leeds / Phone Number: (510) 242-3887

I. SUMMARY OF EVENT

On 2/25/2022 at approximately 04:00, visible flaring occurred when safety systems on a process plant automatically activated and relieved pressure to safety flares after a valve malfunctioned. A CWS Level 1 notification was made. The flaring stopped at approximately 07:45.

II. AGENCIES NOTIFIED, INCLUDING TIME OF NOTIFICATION

After making a determination of potential off-site impacts from flaring, in accordance with the Contra Costa County Health Services (CCCHS) incident notification policy, a CWS Level 1 notification was sent.

Primary Community Warning System (CWS):

- Level 1 CWS activated at approximately 04:03

Secondary: Subsequent notifications via telephone to the agencies below

Agency	Person Reached	Phone Number	Time
Richmond Fire/ Police Central Dispatch	Dispatcher Robles	510-620-6933	04:05
Contra Costa County Health Services Department	Nick Umemoto	925-677-6700	04:07

BAAQMD	Left Message	800-334-6367	04:10
BAAQMD for Flow >500,000 SCF	Email		05:52
SOES	Endy	800-852-7550	04:12

III. AGENCIES RESPONDING, INCLUDING CONTACT NAMES AND PHONE NUMBERS:

At this time, we are aware of the following agencies that have responded.

Contra Costa County Health Services Department	Nick Umemoto	Call back number not provided
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IV. EMERGENCY RESPONSE ACTION:

The Chevron Fire Department Incident Command System was not required or initiated, nor were Fire Brigade members mobilized. No mutual aid was required for this event.

V. IDENTITY OF MATERIAL RELEASED AND ESTIMATED OR KNOWN QUANTITIES:

Emissions from flaring associated with the event are summarized below.

	Flare emissions
Vent Gas Volume (SCF)	1,587,261
SO ₂ (lbs)	9,828

* Flare emissions data presented herein is for the date of the flaring (2/25/2022). Estimates herein are based on currently available data. Upon further investigation and analyses, an update will be provided should a significant change of the data occur.

VI. METEOROLOGICAL CONDITIONS AT TIME OF EVENT:

Wind Speed (mph)	5.0
Wind Direction (degree)	260
Precipitation (inches)	0.000
Temperature (F)	37.8

Information based on data received from the Refinery's meteorological station which is located near Gertrude Street.

VII. DESCRIPTION OF INJURIES:

There were no injuries associated with this event.

VIII. COMMUNITY IMPACT:

There were no regulatory exceedances based on Ground Level Monitoring data. There are no detections above known health limits based on Air Monitoring data.

Ground Level Monitoring Data Summary

	Background Prior to and Maximum Concentration Readings During the Flaring		
	Castro Street	Golden Gate	Gertrude
H ₂ S (ppb) Background:02:51 to 03:51	3.007	3.501	1.609
H ₂ S (ppb) Max.	3.984	4.926	2.590
SO ₂ (ppb) Background: 02:51 to 03:51	3.867	5.923	2.228
SO ₂ (ppb) Max.	4.514	8.507	3.507
Any other items detected to report	n/a	n/a	n/a

Note: The Cal/OSHA PEL for SO₂ is 2,000 ppb (2 ppm) averaged over an 8-hour period. The Cal/OSHA PEL for H₂S is 10,000 ppb (10 ppm) averaged over an 8-hour period.

Fence Line Air Monitoring Summary

Prior to the flaring activity, slightly elevated detections of Pentane, Sulfur Dioxide and Toluene were seen at fence line air monitoring stations. None of these detections exceeded health standards or regulatory limits. There have been other instances when these air monitoring stations registered slightly elevated detections of these compounds from offsite sources.

Community Air Monitoring Summary

During the time period of flaring activity, readings remained at background levels at the community air monitoring stations.

During the flaring event the Chevron Fire Department conducted mobile downwind air monitoring both in the facility and in the community. No readings were noted on atmospheric testing equipment at any of the tested locations, nor on community fence lines. Winds at the time of event were about 2mph out of the NE.

IX. INCIDENT INVESTIGATION RESULTS:

An incident investigation will be conducted to determine the root cause(s) that lead to flaring.

X. SUMMARIZE INVESTIGATION RESULTS BELOW OR ATTACH COPY OF REPORT:

Results will be determined by the investigation.

XI. SUMMARIZE PREVENTABLE MEASURES TO BE TAKEN TO PREVENT RECURRENCE INCLUDING MILESTONE AND COMPLETION DATES FOR IMPLEMENTATION

Preventable measures will be determined by the investigation.