



Northern Sierra AQMD

2023 Annual Report

AB 2588 Air Toxics “Hot Spots”

Executive Summary

Various activities in our daily lives release pollutants into the air, impacting its quality and potentially affecting our health. These pollutants originate from sources such as vehicles, power plants, and industrial facilities, emitting substances like nitrogen oxides and benzene, which can pose health risks.

Understanding the significance of controlling these emissions, the Northern Sierra Air Quality Management District administers programs like the Air Toxics “Hot Spots” Information and Assessment Act (AB 2588). Under AB 2588, the District works with facilities to quantify air toxics emissions, assesses the health risks posed by these emissions, reports emissions, and takes necessary measures to mitigate such risks.

Facilities covered by AB 2588 include both large and small sources of emissions. The District publishes annual reports to inform the public about its efforts to control and reduce toxic air emissions. These reports are available online and shared with authorities and the public to ensure transparency and awareness.

AB 2588 Evaluation Process

Toxic Emission Inventory Plans and Reports

Under this act, facilities prepare Toxic Emission Inventory Plans and Reports to establish site-specific air emissions inventories. These plans provide a framework and method for calculating toxic emissions from all stationary sources within the facility, whether permitted or not. Before quantifying emissions, the District reviews and approves these plans. Reports encompass computations of the facility’s toxic emissions, employing site-specific process rates and emission factors to facilitate the prioritization of air toxic emissions from the facility.

Prioritization

AB 2588 mandates air districts to prioritize facilities to ascertain their status within the program. In determining priorities, air districts are required to take into account the potency, toxicity, quantity, and volume of hazardous materials released from the facility, as well as its proximity to potential receptors and any other factors deemed relevant by the district indicating potential significant health risks posed by the facility. The District employs the prioritization methodology delineated in the California Air Pollution Control Officers Association (CAPCOA) Facility Prioritization Guidelines to rank facilities under AB 2588, utilizing the facility’s approved Plan and Report as referenced in Table 1.

Table 1 – AB 2588 Prioritization Threshold and Categories

Prioritization Thresholds	Priority Category	Category Requirements
≤ 1	Low Priority	The facility is conditionally exempt from further AB 2588 requirements
>1 and ≤ 10	Intermediate Priority	The facility is required to provide an update summary on a quadrennial basis
> 10	High Priority	The facility is required to perform a Health Risk Assessment

Health Risk Assessment

Facilities designated as “High” priority must conduct a Health Risk Assessment (HRA) to evaluate whether their toxic emissions are likely to pose a significant risk to nearby residents and workers. Under AB 2588, both the District and the Office of Environmental Health Hazard Assessment (OEHHA) review each HRA. HRAs conducted within the program must adhere to the methodologies and procedures outlined in District guidelines and OEHHA’s 2015 Air Toxic Hot Spots Program “Guidance Manual for Preparation of Health Risk Assessments.” A facility’s standing within the program is determined based on established health risk thresholds, as referenced in Table 2.

Table 2 – AB 2588 Health Risk Assessment Thresholds

Health Risk Thresholds	Risk Category
Cancer risk < 1 in a million, and Total hazard index of < 0.1	Low Risk
1 ≤ Cancer risk <10 in a million, or 0.1 ≤ Total hazard index ≤ 1.0	Intermediate Risk
Cancer risk > 100 in a million, or Total hazard index of > 10.0	Risk Reduction

Update Summary Facilities

Intermediate Priority and Intermediate Risk facilities are subject to a four-year update summary reporting procedure; these facilities are required to provide their annual activity and associated emissions inventory. This provides the District with updated facility data and assesses whether any operational alterations might impact the facility's health risk status under the program. It's imperative to emphasize that any facility changes necessitating a District permit or permit modification must gain District approval before implementation.

Industrywide and Small Single Source Facilities

According to the state's regulations, certain smaller commercial facilities fall under a streamlined assessment process known as "industrywide" assessment. These facilities, such as gasoline dispensing facilities, dry cleaning operations, and automotive coating facilities, are characterized by easily calculable and generic air toxics emissions at the individual facility Level.

Gasoline Service Station Industrywide Risk Assessment Guidance

To support air districts in fulfilling their obligations under AB 2588 regarding Gasoline Dispensing Facilities (GDF), CARB and the California Air Pollution Control Officers Association (CAPCOA) collaborated to develop an updated standardized Gasoline Service Station Industrywide Risk Assessment Guidance in 2022. This guidance furnishes a structured approach for air districts to assess public health risks associated with GDFs, replacing the outdated 1997 Gasoline Service Station Industrywide Risk Assessment Guidelines previously utilized for health risk evaluations. The 2022 technical guidance incorporates new health risk methodologies, updated emission factors specific to gas stations, and updated information regarding the toxic chemicals in gasoline. The District is currently in the process of evaluating permitted GDF facilities under AB 2588 (approximately 69 facilities).

Air Toxics Hot Spot Assessments Summary

The District has identified 30 AB 2588 facility assessments from 2023. Table 3 below identifies the number of facilities assessed through a prioritization analysis.

Table 3 – Summary of Facilities Assessed Under AB 2588

AB 2588 Category	Number of Facilities Assessed in 2023
Low/Exempt Priority	27
Low/Exempt Risk	0
Intermediate Priority	1
Intermediate Risk	0
High Priority	2
Public Notification	0
Total	30

Appendices

Appendix A: Facilities Assessed Under AB 2588 in 2023

Appendix B: AB 2588 District Implementation Flow Chart

Appendix A: Facilities Assessed Under AB 2588 in 2023

Facility ID	City	County	Facility Name	Prioritization Score	Prioritization Category
3	Quincy	Plumas	Sierra Pacific Industries	16.8	High
15	Chester	Plumas	Collins Pine Co	20.5	High
19	Truckee	Nevada	Teichert Materials – Martis Valley	1.3	Intermediate
2	Lake Almanor	Plumas	Indian Valley	0.0	Low/Exempt
6	Quincy	Plumas	Plumas County Animal Control	0.0	Low/Exempt
8	Grass Valley	Nevada	Grass Valley Steel Cast	0.0	Low/Exempt
10	Grass Valley	Nevada	Hansen Bros Ready Mix	0.0	Low/Exempt
11	Grass Valley	Nevada	Vulcan Materials	0.0	Low/Exempt
14	Grass Valley	Nevada	Hansen Bros Ready Mix - Greenhorn	0.3	Low/Exempt
20	Truckee	Nevada	Teichert Materials – Truckee Quarry	0.0	Low/Exempt
28	Grass Valley	Nevada	A&A Concrete	0.0	Low/Exempt
29	Truckee	Nevada	Truckee-Tahoe Mortuary	0.0	Low/Exempt
34	Portola	Plumas	White Cap Ready Mix – Portola	0.0	Low/Exempt
35	Truckee	Nevada	Truckee North Tahoe Materials	0.0	Low/Exempt
36	Grass Valley	Nevada	Grass Valley Veterinary Shop	0.0	Low/Exempt
40	Calpine	Sierra	Haskell Peak Logging Company	0.0	Low/Exempt
41	Quincy	Plumas	Plumas Health & Human Services	0.0	Low/Exempt
42	Grass Valley	Nevada	Jada Windows	0.0	Low/Exempt
44	North San Juan	Nevada	French Corral Mine	0.0	Low/Exempt
54	Grass Valley	Nevada	Merrill Precast & Supply Inc	0.0	Low/Exempt
55	Grass Valley	Nevada	McCourtney Landfill	0.0	Low/Exempt
56	Truckee	Nevada	Tahoe-Truckee Sanitation Agency	0.2	Low/Exempt
59	Grass Valley	Nevada	Hooper & Weaver	0.0	Low/Exempt
63	Grass Valley	Nevada	Chapel of Angels	0.0	Low/Exempt
73	Chester	Plumas	White Cap Ready Mix – Chester	0.0	Low/Exempt
74	Chester	Plumas	Sierra Cascade Asphalt	0.0	Low/Exempt
77	Penn Valley	Nevada	Goodbye at Home	0.0	Low/Exempt
78	Quincy	Plumas	White Cap Ready Mix – Quincy	0.0	Low/Exempt

Appendix B: AB 2588 District Implementation Flow Chart



