

HAZARDOUS WASTE FACILITY PERMIT HEALTH RISK ASSESSMENT QUESTIONNAIRE

Facility Name: _____ Date: _____

Requirements for hazardous waste facility permit human health risk assessment became effective January 1, 2019. All applicants for a hazardous waste facility permit must provide written responses with supporting data and analysis in accordance with the California Code of Regulations, title 22 sections 66270.14(e)(4) through 66270.14(e)(7). In accordance with section 66270.14(e)(3), a health risk assessment questionnaire form is presented herein. This form must be completed and submitted to the Department concurrently with a permit application.

This form shall provide the DTSC Toxicologist and Permit Project Manager a summary of information required by sections 66270.14(e)(4) through 66270.14(e)(7). This form shall be used to assess potential health risks from past release, current emissions, and from potential releases from proposed hazardous waste transportation, handling, treatment, storage, and disposal. This form shall be used by DTSC to determine if the permit application is required to provide a Screening Level Risk Assessment or Baseline Risk Assessment.

For every item row of the form, the applicant must provide a brief written response in the spaces provided clearly describing all information relevant and necessary to demonstrate compliance with the regulatory citation listed in the row. If the regulatory citation does not apply, the applicant must provide written response clearly describing how the regulatory citation listed in the row does not apply. References must additionally be provided in this form to the locations within the permit application where a complete description with supporting data and analysis of sections 66270.14(e)(4) through 66270.14(e)(7) is provided.

PART 1 – INVENTORY OF POTENTIAL FACILITY RELEASES, EMISSIONS, AND DISCHARGES FOR ALL PROPOSED HAZARDOUS WASTE MANAGEMENT

Item No.	Description	Citation	Location in Permit Application
1	Summary of past uses of the site	§66270.14(e)(5)(A)(1)	
2	Hazardous waste handling processes	§66270.14(e)(5)(A)(2)	
3	Types of permitted hazardous waste management units	§66270.14(e)(5)(A)(3)	

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4	Maximum permitted capacity for hazardous waste transfer, treatment, storage, and disposal	§66270.14(e)(5)(A)(4)	
5	Types and quantity of hazardous waste transferred, treated, stored, or disposed on-site	§66270.14(e)(5)(A)(5)	
6	Overall process flow diagrams showing hazardous waste movement or flow through the facility	§66270.14(e)(5)(A)(6)	
7	Description of vehicular traffic, including diesel traffic under normal and maximum permitted operations	§66270.14(e)(5)(A)(7)	
8	A listing of other environmental permits as provided in 22 CCR § 66270.13(k)	§66270.14(e)(5)(A)(8)	
Air Emission Information			
9	Air sources by individual process or equipment (tanks, valves, scrubbers, etc.)	§66270.14(e)(5)(B)(1)	
10	Pollutants	§66270.14(e)(5)(B)(1)	
11	Daily emission limitations (Title V or local air district operating permit)	§66270.14(e)(5)(B)(1)	

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12	Summary of monitoring data for most recent three (3) years	§66270.14(e)(5)(B)(1)	
Wastewater discharge information			
13	Discharge points	§66270.14(e)(5)(B)(2)	
14	Pollutants discharged	§66270.14(e)(5)(B)(2)	
15	Daily discharges National Pollutant Discharge Elimination System (NPDES) permit or Waste Discharge Requirement (WDR) order	§66270.14(e)(5)(B)(2)	
16	Summary of monitoring data for most recent three (3) years	§66270.14(e)(5)(B)(2)	
Soil contamination or groundwater plume Information at and under the facility			
17	Potential sources	§66270.14(e)(5)(B)(3)	
18	Chemicals of potential concern	§66270.14(e)(5)(B)(3)	

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19	Summary of available groundwater monitoring data	§66270.14(e)(5)(B)(3)	
20	Summary of available indoor air and soil-gas monitoring data for the most recent three (3) years	§66270.14(e)(5)(B)(3)	
21	List of all known spills documented in accordance with any previous authorization of hazardous waste activities or subject to hazardous materials reporting requirements under state or federal laws, and names of the corresponding reporting agency, if applicable	§66270.14(e)(5)(B)(4)	
22	Assessment of any foreseeable accidents or upset conditions, such as fire, floods, earthquakes, or catastrophic release	§66270.14(e)(5)(B)(4)	
23	Summary of any remediation or corrective action performed that addresses any of the emissions or releases listed in this section	§66270.14(e)(5)(B)(4)	

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PART 2 – HEALTH RISK ASSUMPTIONS CHECKLIST

To complete this checklist, include the information in the space provided. If additional pages are required, note in the last column the page numbers where the information can be found.

Item No.	Description	Citation	Additional Page(s) No.	
Hazard Identification of Chemicals of Potential Concern		§66270.14(e)(5)(B)(3)		
1	Identification of chemicals of potential concern for each environmental medium. <i>See definition in section 66260.10. (e.g., lead, benzene, polycyclic aromatic hydrocarbons (PAHs), tetrachloroethene (PCE))</i>	§66270.14(e)(6)(A)(1)		
	Air:			
	Surface Water:			
	Soil:			
	Groundwater:			
2	Chemicals of potential concern’s transformation or degradation products, if applicable. <i>Some chemicals are changed in the environment to other chemicals, which themselves may present a risk to human health (e.g., PCEs may have the degradation products trichloroethene (TCE), vinyl chloride (VC))</i>	§66270.14(e)(6)(A)(2)		

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Item No.	Description	Citation	Additional Page(s) No.
Toxicity Assessment		§66270.14(e)(6)(B)	
3	Identification of the inherent chemical hazard traits or toxicity characteristics of the chemicals of potential concern. This information can be found in published resources, for example the National Institute for Occupational Safety and Health (https://www.cdc.gov/niosh) or the California Office of Environmental Health Hazard Assessment (https://oehha.ca.gov):	§66270.14(e)(6)(B)(1)	
4	Regulatory screening levels for each chemical of potential concern listed by environmental medium for protection of human health:	§66270.14(e)(6)(B)(2)	
	Air:		
	Surface Water:		
	Soil:		
	Groundwater:		
5	Categories of receptors likely affected by or most susceptible to the chemical of potential concern, if applicable	§66270.14(e)(6)(B)(3)	

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Exposure Assessment		§66270.14(e)(6)(C)	
6	Chemical transport processes that influence the movement of each chemical of potential concern. <i>(For example, is the chemical present in solid, liquid, or gas form? Is it soluble in water or a dense or light nonaqueous liquid?)</i>	§66270.14(e)(6)(C)(1)	
7	Identification of, and rationale for, exposure scenarios for each of the chemicals of potential concern in environmental media:	§66270.14(e)(6)(C)(2)	
8	Identification of, and rationale for, potential receptors:	§66270.14(e)(6)(C)(3)	
9	Identification of, and rationale for, complete or potentially complete exposure pathways:	§66270.14(e)(6)(C)(4)	

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PART 3 – CONCEPTUAL SITE MODEL

The conceptual site model must include a written description and a visual representation of actual or predicted relationships between receptor populations and the chemicals of potential concern to which they may be exposed. Information on the conceptual site model shall be represented as a diagram, map, cross section, matrix, or other graphic to describe the site condition and environmental setting. In addition, include an exposure flow diagram which incorporates the information requested below for Item numbers 1-5: (1) Sources of emissions or releases, (2) Chemicals of concern, (3) Impacted media and (4) Exposure pathways and fate and transport routes, and (5) Exposure routes and relevant receptors including offsite residents. To complete the written description, include the information in the space provided for each question below. If additional pages are required, note the page numbers where the information can be found in the last column. Attach and submit the visual representation with the Health Risk Assessment Questionnaire.

Item No.	Description	Citation	Additional Page(s) No.
Submit a Conceptual Site Model That Outlines and Includes:			
1	Potential, and actual, sources of emissions and releases	§66270.14(e)(7)(B)(1)	
2	Listing of chemicals of potential concern and release mechanisms	§66270.14(e)(7)(B)(2)	
3	Impacted environmental media or medium	§66270.14(e)(7)(B)(3)	
4	Potential exposure pathways, including fate and transport routes	§66270.14(e)(7)(B)(4)	
5	Exposure routes for each potential receptor on and adjacent to the facility	§66270.14(e)(7)(B)(5)	