

## HAZARDOUS WASTE FACILITY PERMIT HEALTH RISK ASSESSMENT QUESTIONNAIRE

Facility Name: \_\_\_\_\_ Date: \_\_\_\_\_

Pursuant to California Code of Regulations, title 22, section 66270.14(e)(3), applicants for a hazardous waste facility permit shall submit to the Department a Health Risk Assessment Questionnaire concurrently with the Part B permit application.

- You must complete Part 1 – Inventory of Potential Facility Releases, Emissions, and Discharges (below). Indicate where the information is located in the permit application, including section and page(s), in the Location in Application column. If the information is not included in the application, it *must* be attached to the questionnaire; indicate “attached” in the Location column. If the information is not applicable (e.g., the facility has no wastewater discharge), indicate “not applicable” in the Location column.
- If any Chemicals of Potential Concern are identified (that is, if anything other than “not applicable” is entered for Item Numbers 9 through 21 and 23 below), you must also complete and submit Part 2 – Health Risk Assumptions Checklist (see page 4); and
- If any Chemicals of Potential Concern are identified in Item Numbers 9 through 21 and 23 below, you must also prepare and submit Part 3 – Conceptual Site Model (see page 6) with the Health Risk Assessment Questionnaire.

**PART 1 – INVENTORY OF POTENTIAL FACILITY RELEASES, EMISSIONS, AND DISCHARGES**

| Item No.   | Description  | Statute Citation      | Related Part B Requirement (if any) | Location in Application |
|--|--|-----------------------|-------------------------------------|-------------------------|
| <b>Hazardous Waste Facility Operations Description</b> |  |                       |                                     |                         |
| 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) | §66270.13(i)                        |                         |
| 3  | Types of permitted hazardous waste management units  | §66270.14(e)(5)(A)(3) | §66270.14(b)(18)(L)                 |                         |
| 4  | Maximum permitted capacity for hazardous waste transfer, treatment, storage, and disposal                | §66270.14(e)(5)(A)(4) | §66270.13(i)                        |                         |
| 5  | Types and quantity of hazardous waste transferred, treated, stored, or disposed on-site                  | §66270.14(e)(5)(A)(5) | §66270.13(j)                        |                         |
| 6  | Overall process flow diagrams showing hazardous waste movement or flow through the facility              | §66270.14(e)(5)(A)(6) | §66260.16(d)                        |                         |
| 7  | Description of vehicular traffic, including diesel traffic under normal and maximum permitted operations | §66270.14(e)(5)(A)(7) | §66270.14(b)(10)                    |                         |

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|  |  |                       |  |  |
|--|--|-----------------------|--|--|
| 8  | A listing of other environmental permits as provided in 22 CCR § 66270.13(k)   | §66270.14(e)(5)(A)(8) | §66270.13(k)   |  |
| <b>Identification of All Known and Potential Sources of Chemicals of Potential Concern</b> |  |                       |  |  |
| <b>Air Emission Information</b>  |  | §66270.14(e)(5)(B)(1) |  |  |
| 9  | Air sources by individual process or equipment (tanks, valves, scrubbers, etc.)  | §66270.14(e)(5)(B)(1) | §66270.14(a), (c)(3)<br>§66270.23(b), (c),<br>§66270.16(m);<br>§66270.25<br>§66270.27;<br>§66260.10<br>§66264.200;<br>§66264.601<br>§66264.1030<br>§66264.1050(b), (d)<br>§66264.1080 (a) - (d);<br>§66265.1084(a)(2) - (a)(4) |  |
| 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) |  |  |
| 12   | Summary of monitoring data for most recent three (3) years   | §66270.14(e)(5)(B)(1) |  |  |
| <b>Wastewater discharge information</b>  |  | §66270.14(e)(5)(B)(2) |  |  |
| 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) |  |  |

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| <b>Soil or groundwater plume Information at and under the facility</b> |  | §66270.14(e)(5)(B)(3) |                                 |  |
|--|--|-----------------------|---------------------------------|--|
| 17   | Potential sources  | §66270.14(e)(5)(B)(3) |                                 |  |
| 18   | Chemicals of potential concern   | §66270.14(e)(5)(B)(3) |                                 |  |
| 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) | §66270.14(b)(7)<br>§66264.52(a) |  |
| 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. |
|--|--|-----------------------|------------------------|
| <b>Hazard Identification of Chemicals of Potential Concern</b> |  | §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. |
|----------------------------|---|-----------------------|------------------------|
| <b>Toxicity Assessment</b> |   | §66270.14(e)(6)(B)    |                        |
| 3                          | Identification of the inherent chemical hazard traits or toxicity characteristics of the chemicals of potential concern. The chemical hazard traits or toxicity characteristics are how the chemical can affect human health (e.g., benzene is a known carcinogen). This information can be found in published resources, for example the National Institute for Occupational Safety and Health ( <a href="https://www.cdc.gov/niosh">https://www.cdc.gov/niosh</a> ) or the California Office of Environmental Health Hazard Assessment ( <a href="https://oehha.ca.gov">https://oehha.ca.gov</a> ): | §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. The conceptual site model may be represented as a diagram, map, cross section, matrix, or other graphic to describe the site condition or environmental setting. 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. |
|---|---|-----------------------|------------------------|
| <b>Submit a Conceptual Site Model That Outlines and Includes:</b> |   |                       |                        |
| 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) |                        |