## UST Classification Guide

### 1. UST Facility Information

**Agency Interest Number (AI)**

**UST Facility Name**

**Classification Type** *(select one)*

- [ ] Initial Classification
- [ ] Amended Classification

### 2. Soil Classification

**Soil Classification Instructions**: Answer applicable questions. This guide places the UST facility into a particular class and establishes UST system screening levels for soil. Refer to Section 7.1 of the UST Corrective Action Manual regarding criteria for soil classification.

#### A.

Are any domestic-use wells, domestic-use springs or domestic-use cisterns located within a 100-meter (328 feet) radius from the excavation zone?

- [ ] Yes
- [ ] No
- [ ] N/A

**Note**: Domestic-use wells, domestic-use springs, or domestic-use cisterns: if site-specific information demonstrates no potential impact (e.g., a domestic-use well hydrogeologically upgradient from the excavation zone) to domestic-use wells, domestic-use springs, or domestic-use cisterns from a release within the excavation zone, those features shall be disregarded in the determination of a UST facility classification.

#### B.

Does analysis of soil samples collected from the excavation zone or soil borings indicate levels above the Class A Adjusted Soil Screening Levels on-site specified in the Class A Soil Screening Levels Table?

- [ ] Yes
- [ ] No

**Class A Adjusted Soil Screening Levels apply to soil within the Point of Compliance and the applicable Class B Soil Matrix Table Screening Levels apply to soils beyond the Point of Compliance (complete the Class A Soil Screening Levels Table only – below).**

#### C.

Does analysis of soil samples collected from the excavation zone or soil borings indicate levels above those specified in the applicable Class B Soil Matrix Table?

- [ ] Yes
- [ ] No

**The applicable Class B Soil Matrix Table Screening Levels apply both within and beyond the Point of Compliance (complete the Class B Soil Screening Levels Table only – on next page).**

**Note**: Domestic-use wells, domestic-use springs, or domestic-use cisterns: if site-specific information demonstrates no potential impact (e.g., a domestic-use well hydrogeologically upgradient from the excavation zone) to domestic-use wells, domestic-use springs, or domestic-use cisterns from a release within the excavation zone, those features shall be disregarded in the determination of a UST facility classification.

**Instructions for Class A Soil**: Only complete the Class A Soil Screening Levels Table below for a UST facility classified as Class A in Section 7.1.1. If the UST facility does not qualify for Class A, complete the Class B Soil Screening Levels Table on the next page.

**Class A Soil Screening Levels Table (ppm)**

<table>
<thead>
<tr>
<th>Row</th>
<th>Class A Baseline Soil Screening Levels <strong>within</strong> the Point of Compliance</th>
<th>B</th>
<th>T</th>
<th>E</th>
<th>X</th>
<th>Ch</th>
<th>B(a)A</th>
<th>cPAH</th>
<th>nPAH</th>
<th>NAP</th>
<th>Lead</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>2</td>
<td>18</td>
<td>30</td>
<td>50</td>
<td>15</td>
<td>0.15</td>
<td>0.3</td>
<td>10</td>
<td>5</td>
<td>400</td>
</tr>
<tr>
<td>2</td>
<td>Matrix Table Soil Screening Levels <strong>beyond</strong> the Point of Compliance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Class A Adjusted Soil Screening Levels <strong>within</strong> the Point of Compliance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
### Instructions for Class B Soil

Only complete the Class B Soil Screening Levels Table below for a UST facility classified as Class B in Section 7.1.2 of the UST Corrective Action Manual. Identify the applicable Matrix Table (refer to Table 2 of the UST Corrective Action Manual). Based on the identification of the appropriate Matrix Table, depth to groundwater and soil type, complete the Class B Soil Matrix Table Screening Levels beyond the Point of Compliance (refer to Tables 2 through 5 of the UST Corrective Action Manual).

#### Class B Soil Screening Levels Table (ppm)

<table>
<thead>
<tr>
<th>Soil Screening Levels within and beyond the Point of Compliance</th>
<th>Class B Soil Matrix Table:</th>
<th>Soil Type:</th>
<th>Depth to Groundwater:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B</td>
<td>T</td>
<td>E</td>
</tr>
</tbody>
</table>

#### 3. Groundwater Classification

**Groundwater Classification Instructions:** Answer applicable questions. This guide places the UST facility into a particular class and establishes UST system screening levels for groundwater. Refer to Section 7.2 of the UST Corrective Action Manual regarding criteria for groundwater classification.

**A.** Is the UST facility serviced by a public water supply?

- **Yes**  
  Proceed to question B.
- **No**  
  Groundwater Table I screening levels apply within and beyond the Point of Compliance (complete the Groundwater Screening Levels within the Point of Compliance below).

**B.** Are domestic-use wells, domestic-use springs, or domestic-use cisterns located within a 100-meter (328 feet) radius from the excavation zone?

- **Yes**  
  Groundwater Table I screening levels apply within and beyond the Point of Compliance (complete the Groundwater Screening Levels within the Point of Compliance below).
- **No**  
  Proceed to question C.
- **N/A**  
  Domestic-use wells, domestic-use springs, or domestic-use cisterns were disregarded. *See note. Proceed to question C.

**C.** Are domestic-use wells, domestic-use springs, or domestic-use cisterns located within a 100-meter (328 feet) to 300-meter (984 feet) radius from the excavation zone?

- **Yes**  
  Groundwater Table II screening levels apply within the Point of Compliance and Groundwater Table I screening levels apply beyond the Point of Compliance (complete the Groundwater Screening Levels within the Point of Compliance below).
- **No**  
  Groundwater Table III screening levels apply within the Point of Compliance and Groundwater Table I screening levels apply beyond the Point of Compliance (complete the Groundwater Screening Levels within the Point of Compliance below).
- **N/A**  
  Domestic-use wells, domestic-use springs, or domestic-use cisterns were disregarded. *See note. Groundwater Table III screening levels apply within the Point of Compliance and Groundwater Table I screening levels apply beyond the Point of Compliance (complete the Groundwater Screening Levels within the Point of Compliance below).

*Note: Domestic-use wells, domestic-use springs, or domestic-use cisterns: if site-specific information demonstrates no potential impact (e.g., a domestic-use well hydrogeologically upgradient from the excavation zone) to domestic-use wells, domestic-use springs, or domestic-use cisterns from a release within the excavation zone, those features shall be disregarded in the determination of a UST facility classification.*

### Instructions for Groundwater Screening Levels

Complete the Groundwater Screening Levels Table below.

**Row 1** Identify the applicable Groundwater Table and corresponding BTEX screening levels within the Point of Compliance (refer to Table 6 of the UST Corrective Action Manual).

**Row 2** Identifies Groundwater Table 1 and corresponding screening levels beyond the Point of Compliance.

#### Groundwater Screening Levels (ppm)

<table>
<thead>
<tr>
<th>Row</th>
<th>Groundwater Screening Levels within the Point of Compliance</th>
<th>Groundwater Table:</th>
<th>B</th>
<th>T</th>
<th>E</th>
<th>X</th>
<th>cPAH</th>
<th>nPAH</th>
<th>NAP</th>
<th>Dissolved Lead*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Groundwater Screening Levels within the Point of Compliance</td>
<td>Groundwater Table:</td>
<td>0.005</td>
<td>3</td>
<td>0.3</td>
<td>0.015</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Groundwater Screening Levels beyond the Point of Compliance</td>
<td></td>
<td>0.007</td>
<td>0.94</td>
<td>0.47</td>
<td>5.89</td>
<td>0.005</td>
<td>3</td>
<td>0.3</td>
<td>0.015</td>
</tr>
</tbody>
</table>
### 4. Domestic-Use Wells, Domestic-Use Springs, and Domestic-Use Cisterns

**Instructions:** Provide the physical address and contact information for the owner of each domestic-use well, domestic-use spring, or domestic-use cistern identified. All domestic-use wells, domestic-use springs, or domestic-use cisterns shall be remediated to the maximum contaminant levels (MCLs) established in 401 KAR Chapter 8.

<table>
<thead>
<tr>
<th>Owner Name</th>
<th>Physical Address</th>
<th>Phone Number ( ) -</th>
<th>DU Well</th>
<th>DU Spring</th>
<th>DU Cistern</th>
<th>Latitude:</th>
<th>Longitude:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>Photo Attached: Yes ☐ No ☐, explain:</td>
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</tbody>
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<th>DU Cistern</th>
<th>Latitude:</th>
<th>Longitude:</th>
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<tr>
<td>Photo Attached: Yes ☐ No ☐, explain:</td>
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</tr>
</tbody>
</table>

### 5. Certification

Under the requirements of KRS Chapter 322 and 322A, this checklist shall be completed and signed by a P.E. licensed with the Kentucky Board of Licensure for Professional Engineers and Land Surveyors or a P.G. registered with the Kentucky Board of Registration for Professional Geologists.

I, the undersigned, state, under penalty of law, that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I certify the submitted information is true, accurate and complete.

**Printed Title**

**Signature**

[ ] Professional Engineer

[ ] Professional Geologist

**License Number**

**Registration Number**

**License Date**

**Registration Date**

If you have questions on how to fill out this form please contact the cabinet at (502) 564-5981 or visit our web site at [http://waste.ky.gov/ust](http://waste.ky.gov/ust). For copies of UST facility records please visit [http://eec.ky.gov/pages/openrecords.aspx](http://eec.ky.gov/pages/openrecords.aspx) or email EEC.KORA@ky.gov.

**BTEX:** Benzene, Toluene, Ethylbenzene, and Xylene (total)

**PAH:** Polynuclear Aromatic Hydrocarbons

**Ch:** Soil screening level for Chrysene

**B(a)A:** Soil screening level for Benzo(a)anthracene

**cPAH:** Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene

**nPAH:** Acenaphthene, Acenaphthylene, Anthracene, Benzo(ghi)perylene, Fluoranthene, Fluorene, Phenanthrene, and Pyrene

**NAP:** Naphthalene

**ppm:** mg/kg - parts per million for soil and mg/L – parts per million for groundwater

*Samples shall be filtered prior to acid preservation.*