# HERBICIDES

<table>
<thead>
<tr>
<th>Test Description</th>
<th>Determination of chlorinated acid herbicides in drinking water</th>
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<tbody>
<tr>
<td>Test Use</td>
<td>Useful for evaluating chlorinated acids in drinking water and other clean waters.</td>
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</tbody>
</table>
| Test Department  | Organic Chemistry: Phone 860-920-6581/6693  
                   Fax 860-920-6703 |
| Methodology      | EPA Method 515.3: Liquid-Liquid Extraction, Derivatization and Gas Chromatography |
| Availability     | Year-round |
| Sample Requirements | Three (3) 60-mL samples  
                   Two (2) Field Blanks (containing lab-provided reagent water) per sampling trip. |
| Container type /Preservative | 60-mL amber glass vials with Teflon-lined screw caps.  
                   4 mg Sodium Thiosulfate preservative added to vials prior to collection. |
| Collection Instructions (Note 1) | For taps, remove aerators and let water run 4-5 minutes. For outdoor locations, sampling location should be in accordance with a preapproved quality assurance project plan. |
| Sample Holding Time & Transport | Samples are iced or refrigerated and kept in the dark at 4°±2°C from time of collection until extraction.  
                   Samples must be extracted (i.e. lab initiates test) within 14 days of collection. |
| Unacceptable Conditions | Incomplete requisition form.  
                   Insufficient sample volume.  
                   Samples received beyond the 14-day holding time.  
                   Improper collection/container/preservative. |
| Requisition Form | Use the Organics/Radiation Water Examination request form. |
| Required Information | Fill out entire requisition form. |
| Limitations | Samples not held at 4°±2°C for more than 3 hours (from when samples are collected and received by the laboratory) will have qualified results. |
| Additional Comments | See Table 1 for list of compounds which the CT PHL can determine by this method. |

Table 1. Compounds Determinable by EPA Method 515.3

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Chemical Abstract Services Registry Number</th>
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</thead>
<tbody>
<tr>
<td>Acifluorfen</td>
<td>50594-66-6</td>
</tr>
<tr>
<td>2,4-D</td>
<td>94-75-7</td>
</tr>
<tr>
<td>Dicamba</td>
<td>1918-00-9</td>
</tr>
<tr>
<td>Dinoseb</td>
<td>88-85-7</td>
</tr>
<tr>
<td>Pentachlorophenol</td>
<td>87-86-5</td>
</tr>
<tr>
<td>Picloram</td>
<td>1918-02-1</td>
</tr>
<tr>
<td>2,4,5-TP (Silvex)</td>
<td>93-72-1</td>
</tr>
</tbody>
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