

## Rural Water System Protocol

Element	Protocol	Date
<b>Diversion</b>	If Stream <ul style="list-style-type: none"> <li>• Install foot valve<sup>1</sup>, pump (with secondary containment, if applicable) and plumbing.</li> <li>• Remove foot valve from the waterway and store plumbing and pump in a secure location.</li> <li>• Inspect screen for damage or plugging.</li> <li>• Inspect pump for leaks (if applicable).</li> </ul>	March May Weekly Weekly
	If Pond <ul style="list-style-type: none"> <li>• Inspect foot valve.</li> <li>• Inspect aeration.</li> <li>• Inspect pump for leaks (if applicable).</li> <li>• Assess algae and pests.</li> <li>• Inspect liner (if applicable) and slope for damage and maintain.</li> <li>• Plant and maintain margins, spillway, and wetland shelf.</li> </ul>	Weekly Weekly Weekly Weekly September November
	If Rooftop Catchment <ul style="list-style-type: none"> <li>• Inspect debris screen, first-flush and clean roof/gutters.</li> <li>• Assess overflow discharge point.</li> </ul>	Monthly Monthly
<b>Conveyance</b>	<ul style="list-style-type: none"> <li>• Inspect for leaks, breaks, kinks, etc.</li> <li>• Drain line to purge sediment.</li> </ul>	Weekly Mar/Nov
<b>Storage</b>	If Pond <ul style="list-style-type: none"> <li>• See protocol listed in <i>Diversion</i>.</li> </ul> If Tanks <ul style="list-style-type: none"> <li>• Inspect for leaks.</li> <li>• Inspect pre-filtration.</li> <li>• Inspect post-filtration.</li> <li>• Inspect pump for leaks (if applicable).</li> <li>• Expand storage volume (if necessary) based on metered data.</li> <li>• Purge sediment.</li> <li>• Fill for season.</li> </ul>	Weekly Weekly Weekly Weekly October November March
<b>Documentation</b>	<ol style="list-style-type: none"> <li>1. Dates the foot valve was installed <u>and</u> removed<sup>2</sup> from stream.</li> <li>2. Flow rate<sup>3</sup> at diversion.</li> <li>3. Water use for domestic and irrigation. Two meters if possible.</li> </ol>	Mar-May Monthly Monthly

### Notes

- Foot Valve<sup>1</sup>: Screen apparatus designed to exclude organisms and debris while maintaining an appropriate take rate. See CDF&W for specific requirements.
- Foot Valve Removal<sup>2</sup>: Secure to a stake and use a tree tag to label with the date of removal.
- Flow Rate<sup>3</sup>: See Flow Rate document and worksheet for instructions.