Project Title: Operation and Maintenance of the Fish Screen and Maintenance of the Fish Passage Facility at the Redlands Water and Power Company Diversion Dam.

Prepared By: Kevin E. Jones, Superintendent
Redlands Water and Power Company
2216 South Broadway
Grand Junction, CO 81507
Phone: (970) 243-2173
Email: redlandswp@bresnan.net

Project Summary: The Redlands Water and Power Diversion, located on the Gunnison River near Grand Junction, Colorado, diverts water into the Redlands Power Canal. A fish passage structure was constructed around the diversion dam in 1996. A fish screen and fish return pipeline was constructed in the canal in 2004. The fish passage is operated by the U.S. Fish and Wildlife Service. Redlands operates and maintains the fish screen and performs maintenance on the fish passage.

Study Schedule: Redlands makes every effort to operate the fish screen whenever diverting water into the Power Canal. Maintenance on the fish passage is performed after the U.S. Fish and Wildlife Service complete annual operation.

Relationship to RIPRAP: Colorado River Action Plan: Mainstem II.B.3.

Accomplishment of FY 2013 Tasks and Deliverables, Discussion of Initial Findings and shortcomings:
The following major maintenance activities were completed on the fish passage:
Refer to US Fish and Wildlife Service – Dale Ryden
Redlands Water and Power Co. cooperated with FWS on maintenance
The following improvements were made to the fish passage:
Refer to US Fish and Wildlife Service – Dale Ryden
Redlands Water and Power Co. cooperated with FWS on maintenance

The fish screen was operated during the following periods:

<table>
<thead>
<tr>
<th>Status</th>
<th>Date</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online</td>
<td>04/29/13</td>
<td>Put unit online</td>
</tr>
<tr>
<td>Bypassed</td>
<td>05/18/13</td>
<td>Bypassed due to debris in water coming down river from rain fall</td>
</tr>
<tr>
<td>Online</td>
<td>05/22/13</td>
<td>Water cleared and unit put back online</td>
</tr>
<tr>
<td>Bypassed</td>
<td>06/01/13</td>
<td>Bypassed due to debris in water</td>
</tr>
<tr>
<td>Online</td>
<td>06/03/13</td>
<td>Water cleared and unit put back online</td>
</tr>
<tr>
<td>Bypassed</td>
<td>07/11/13</td>
<td>Log caught in trash rake</td>
</tr>
<tr>
<td>Online</td>
<td>07/11/13</td>
<td>Log removed and unit put back online</td>
</tr>
<tr>
<td>Bypassed</td>
<td>08/01/13</td>
<td>Bypassed due to East brush arm failure. Unable to run with one arm. Parts ordered.</td>
</tr>
<tr>
<td>Online</td>
<td>08/15/13</td>
<td>Brush repaired and unit put back online</td>
</tr>
<tr>
<td>Bypassed</td>
<td>08/21/13</td>
<td>Bypassed due to water level sensor out of calibration</td>
</tr>
</tbody>
</table>
Online 08/22/13 Sensor recalibrated and unit put back online

Bypassed 11/03/13 Water removed from canal for plant and canal repairs

Online 11/14/13 Repairs completed and unit put back online.

The following improvements were made to the fish screen:

The following improvements were made to the fish ladder:
Installed security fence and driveway gates
Replaced the overhead hoist
Purchased new trash boom

Recommendations:

Project Status: On schedule and on budget.

FY 2013 Budget Status:
Funds Provided: $68,267.65
Funds Expended: $48,803.28

Status of Data Submission (where applicable): Not applicable

Kevin E. Jones, Superintendent  
November 21, 2013

REDLANDS WATER AND POWER COMPANY