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2 and sediments at several locations along the river, beginning in fall 2009. Order 2009-  
3 058-DWR also required Reclamation to develop a monitoring plan, acceptable to the  
4 Deputy Director for Water Rights, for releases that began after February 1, 2010.

5 Reclamation developed the *2009 – 2013 Interim Flows Release Program Water Quality*  
6 *Monitoring Plan* in January 2010, in part to meet the water quality and bed sediment  
7 monitoring requirements of Order 2009-058-DWR. According to the plan, the core of  
8 SJRRP monitoring includes a series of sensors along the SJR that will make continuous  
9 measurements of physical conditions, including flow, depth, temperature, specific  
10 conductance (salinity), pH, DO, turbidity, and chlorophyll. Raw data are posted by the  
11 California Data Exchange Center (CDEC) ([www.cdec.water.ca.gov](http://www.cdec.water.ca.gov)) and linked to the  
12 SJRRP Web site.

13 On September 30, 2010, the State Board issued an order for the Water Year 2011 Interim  
14 Flows Project. Order 2010-029-DWR states that Reclamation is required to continue  
15 implementing the 2009–2013 *Interim Flows Release Program Water Quality Monitoring*  
16 *Plan* and a water quality response plan. Order 2010-029-DWR requires Reclamation to  
17 submit requests to modify the *Interim Flows Release Program Water Quality Monitoring*  
18 *Plan* in writing to the Deputy Director for Water Rights; modifications may only be made  
19 upon written approval of the Deputy Director for Water Rights. Order 2010-029-DWR  
20 required Reclamation to develop and submit to the Deputy Director for Water Rights, by  
21 February 1, 2011, a Water Quality Response Plan completed to address the following: (1)  
22 contribution of Interim Flows to high salinity conditions in the Delta-Mendota Canal,  
23 Mendota Pool, and Fresno Slough, (2) an identification of the different entities and  
24 individuals who may contribute to or play a role in the response to high salinity  
25 conditions, (3) the current legal and contractual roles and responsibilities of those entities,  
26 and (4) possible mechanisms, including those under the control of Reclamation and those  
27 that are the responsibility of other entities and individuals. Order 2010-029-DWR also  
28 stated that Reclamation is required to implement monitoring of temperature changes in  
29 Millerton Reservoir and to implement a schedule for ramping flow releases, consistent  
30 with the Settlement.

31 For Water Year 2012, the State Board approved the temporary transfer of water and  
32 change petitions filed on July 28, 2011, pursuant to Water Code sections 1725 and 1707  
33 for Permits 11885, 11886 and 11887. A long-term petition is anticipated to be in place in  
34 2013 that may require some modifications.











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**Table 6-1.  
Analytical Tools for SJRRP (contd.)**

<b>Model</b>	<b>Type</b>	<b>Purpose</b>	<b>Status</b>	<b>Model Application</b>
CVHM	Groundwater	Groundwater flow	Complete (USGS, 2012)	Run preliminary simulations related to Reach 2B proposed alignments
EDT	Fisheries	Population response to habitat conditions	Under refinement	Run preliminary simulations related to Reach 2B proposed alignments
ESHE	Fisheries	Floodplain habitat	Under development	Identify floodplain habitat needs for salmon

Key:

1D = one-dimensional

2D = two-dimensional

CVHM = Central Valley Hydrologic Model

DTM = Digital Terrain Model

EDT = Ecosystem Diagnosis and Treatment

ESHE = Emigrating Salmonid Habitat Estimation

HEC = Hydrologic Engineering Center

RAS = River Analysis System

SJRRP = San Joaquin River Restoration Program

SRH = Sedimentation and River Hydraulics

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