

SJRRP Daily Seepage Evaluation Log – Spring 2011

March 20, 2011

Conditions are the same as March 17.

March 19, 2011

Conditions are the same as March 17.

March 18, 2011

Conditions are the same as March 17.

March 17, 2011

Conditions are the same as March 16.

March 16, 2011

Conditions are the same as March 15.

March 15, 2011

Conditions are the same as March 14.

March 14, 2011

Conditions are the same as March 13.

March 13, 2011

Conditions are the same as March 12. No unaddressed real-time wells have crossed thresholds.

March 12, 2011

Conditions are the same as March 11. No real-time wells have crossed thresholds with the exception of MW-10-75, which is due to flood irrigation.

March 11, 2011

Conditions are the same as March 10, with the exception of:

4. Realtime groundwater measurements:

Well	Measured Groundwater Depth in Well (feet)	Ground Surface Buffer (feet)	Lateral Gradient Buffer (feet)	Field Depth (feet)	Field Threshold (feet)	Comment
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Well	Measured Groundwater Depth in Well (feet)	Ground Surface Buffer (feet)	Lateral Gradient Buffer (feet)	Field Depth (feet)	Field Threshold (feet)	Comment
MW-09-54B	14.26	-7.9	+5.5	11.86	10	Acceptable
PZ-09-R3-7	7.86	-0.7	0	7.16	4.5	Acceptable
MW-10-75	4.82	-0.5	0	4.32	6.3	Groundwater response to flood irrigation
MW-10-89	10.60	-3.4	0	7.20	3.8	Acceptable
MW-10-92	6.67	-2.6	0	4.07	4.0	Acceptable

March 10, 2011

Conditions are the same as March 9, with the exception of:

4. Realtime groundwater measurements:

Well	Measured Groundwater Depth in Well (feet)	Ground Surface Buffer (feet)	Lateral Gradient Buffer (feet)	Field Depth (feet)	Field Threshold (feet)	Comment
MW-09-54B	14.66	-7.9	+5.5	12.26	10	Acceptable
PZ-09-R3-7	7.7	-0.7	0	7	4.5	Acceptable
MW-10-75	4.7	-0.5	0	4.2	6.3	Groundwater response to flood irrigation
MW-10-89	10.57	-3.4	0	7.17	3.8	Acceptable
MW-10-92	6.6	-2.6	0	4.0	4.0	Has tile drain

March 9, 2011

Conditions are the same as March 8.

Flow released from Friant Dam: 700 cfs

Interim Flow below Mendota Pool: 0 cfs

3. Seepage Hotline Calls

Well	Measured Groundwater Depth in Well (feet)	Ground Surface Buffer (feet)	Lateral Gradient Buffer (feet)	Field Depth (feet)	Field Threshold (feet)	Comment
MW-10-75	4.66	-0.5	0	4.16	6.3	Site Visit underway, likely flood irrigation. Flows below Mendota Pool at 0 cfs until confirmed.

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4 and 5. Groundwater Measurements:

Well	Measured Groundwater Depth in Well (feet)	Ground Surface Buffer (feet)	Lateral Gradient Buffer (feet)	Field Depth (feet)	Field Threshold (feet)	Comment
MW-09-47	8.48	-3.5	+3.3	8.28	7	Acceptable
MW-09-49B	6.15	-1.7	+2.4	6.85	4.5	Acceptable
MW-09-54B	15.06	-7.9	+5.5	12.66	10	Acceptable
MW-09-55B	9.21	-3.7	+3	8.51	7	Acceptable
PZ-09-R2B-1	5.2	-1.3	0	3.9	5.0	License agreement pending
PZ-09-R2B-2	11.55	-3.9	0	7.6	4.5	Acceptable
PZ-09-R3-5	10.08	-1.2	0	8.88	5.0	Acceptable
PZ-09-R3-6	9.12	-1.5	0	7.62	5.0	Acceptable
PZ-09-R3-7	7.39	-0.7	0	6.69	4.5	Acceptable
MW-10-75	4.66	-0.5	0	4.16	6.3	Site Visit underway, likely flood irrigation
MW-10-87B	Dry	-1.9	0	-	4.2	Acceptable
MW-10-89	10.51	-3.4	0	7.11	3.8	Acceptable
MW-10-92	6.56	-2.6	0	3.96	4.0	Has tile drain
MW-10-90	2.84	-4.7	0	-1.86	7.0	50 cfs limit past Sack Dam for drainage
MW-10-94	4.19	0	0	4.19	7.0	50 cfs limit past Sack Dam for drainage
MW-10-95	3.76	-2.2	0	1.56	5.0	50 cfs limit past Sack Dam for drainage

March 8, 2011

Conditions are the same as March 7, 2011 with the exception of:

5. Table 1 – Priority Well Weekly Groundwater Measurements

Well	Measured Groundwater Depth in Well (feet)	Ground Surface Buffer (feet)	Lateral Gradient Buffer (feet)	Field Depth (feet)	Field Threshold (feet)	Comment
PZ-09-R2B-1	5.2	-1.3	0	3.9	5.0	License agreement pending
MW-10-90	2.84	-4.7	0	-1.86	7.0	50 cfs limit past Sack Dam for drainage
MW-10-94	4.19	0	0	4.19	7.0	50 cfs limit past Sack Dam for drainage

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Well	Measured Groundwater Depth in Well (feet)	Ground Surface Buffer (feet)	Lateral Gradient Buffer (feet)	Field Depth (feet)	Field Threshold (feet)	Comment
MW-10-95	3.76	-2.2	0	1.56	5.0	50 cfs limit past Sack Dam for drainage

March 7, 2011

Based on preliminary data, flow exceeded 475 cfs in Reach 2A as recorded at the Gravelly Ford gaging station on March 7, 2011. Daily evaluations will continue while flow remains above this evaluation threshold. Releases from Friant Dam for Interim Flows and riparian diversion are 700 cfs. In response to groundwater levels above a threshold in Reach 3, Interim Flows will be diverted at Mendota Pool until further information is known.

As of March 7, 2011:

1. Flows rates from provisional real-time data are below known conveyance thresholds (8,000 cfs in Reach 2A, 1,300 cfs in Reach 2B, and 1,300 cfs in Reach 3).
2. The Mendota Pool operations call this morning did not identify any issues.
3. The seepage hotline has received one call regarding Water Year 2011 flows, described below.
4. Real-time provisional groundwater data does not show unaddressed groundwater depths crossing identified thresholds with the exception of MW-10-75. See below for evaluation.
5. Manually monitored groundwater wells do not show unaddressed groundwater depths crossing identified thresholds.
6. Much of the San Joaquin River is still a gaining reach due to bank storage from flood flows in January. Tributary inflows in Reach 1A are approximately 70 cfs.

Seepage Hotline Call 2011-2 was received Monday, March 7, 2011 regarding the increase in groundwater levels in real-time telemetered well MW-10-75. The groundwater level is at 5.34 feet below the ground surface in the monitoring well. The groundwater level was around 8 feet below ground surface on March 5. The neighboring farm is flood irrigating. It is likely the groundwater response is due to irrigation. Interim Flows in Reach 3 are currently at 50 cfs, with 550 cfs of San Luis Canal Company deliveries on top of this. A site visit is planned for tomorrow, March 8. All Interim Flows have been stopped below Mendota Pool until more information is gathered.