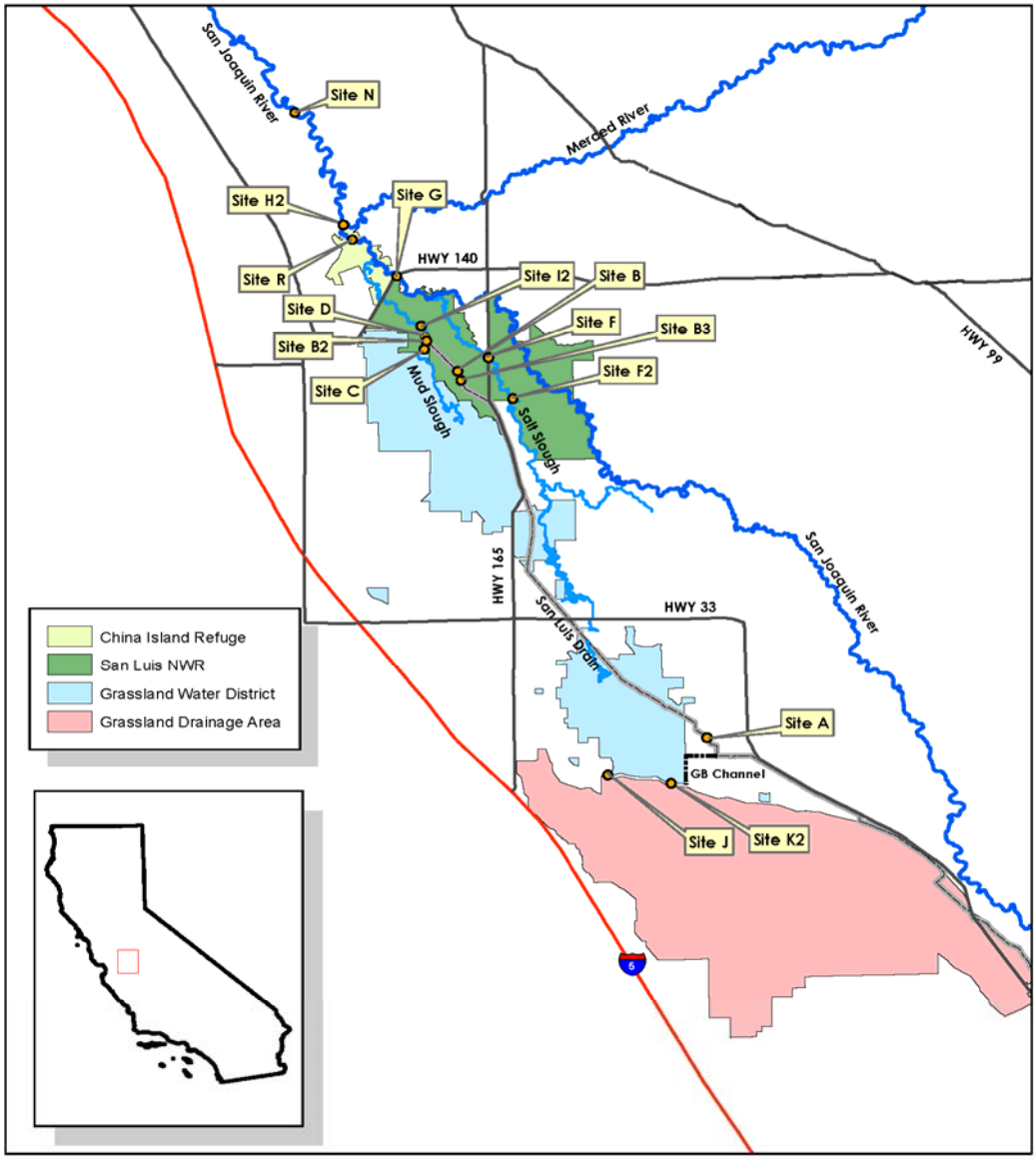
GRASSLAND BYPASS PROJECT
MONTHLY DATA REPORT

2014

A Cooperative Effort By:

United States Bureau of Reclamation
Cantral Valley Regional Water Quality Control Board
United States Fish and Wildlife Service
National Marine Fisheries Service
California Department of Fish and Wildlife
San Luis and Delta-Mendota Water Authority
United States Environmental Protection Agency
United States Geological Survey
San Francisco Estuary Institute

Figure 1. Map of the Grassland Bypass Project area



GRASSLAND BYPASS PROJECT
MONTHLY DATA REPORT

LIST OF TABLES FOR MONTHLY REPORT

Table 1a. Water monitoring of inflow to the San Luis Drain (Station A)

PARAMETER	Flow	Discharge	Total Selenium	Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	microm	microm	tons
Jan-01-2014	3.4	6.7					7,730.0	52.1
Jan-02-2014	3.7	7.3					7,730.0	56.9
Jan-03-2014	3.8	7.6					7,730.0	59.1
Jan-04-2014	4.0	7.9					7,730.0	61.2
Jan-05-2014	3.8	7.5					7,730.0	58.4
Jan-06-2014	5.3	10.4					7,730.0	81.1
Jan-07-2014	5.0	9.8					7,730.0	76.5
Jan-08-2014	7.8	15.4	0.0309	15.3	7,730.0	7,348.0	7,730.0	119.7
Jan-09-2014	6.2	12.3					6,360.0	78.6
Jan-10-2014	6.4	12.7					6,360.0	81.1
Jan-11-2014	5.6	11.2					6,360.0	71.5
Jan-12-2014	8.1	16.2					6,360.0	103.3
Jan-13-2014	9.3	18.5					6,360.0	118.5
Jan-14-2014	11.3	22.5					6,360.0	144.0
Jan-15-2014	10.9	21.7	0.0219	12.2	6,360.0	6,240.0	6,360.0	138.5
Jan-16-2014	9.1	18.0					7,790.0	140.6
Jan-17-2014	10.8	21.4					7,790.0	167.6
Jan-18-2014	12.8	25.3					7,790.0	198.4
Jan-19-2014	12.4	24.7					7,790.0	193.2
Jan-20-2014	11.1	22.0					7,790.0	172.3
Jan-21-2014	11.7	23.2					7,790.0	181.7
Jan-22-2014	12.4	24.6	0.0252	14.2	7,790.0	7,440.0	7,790.0	192.6
Jan-23-2014	12.8	25.3					7,010.0	178.5
Jan-24-2014	13.4	26.6					7,010.0	187.4
Jan-25-2014	18.6	36.8					7,010.0	259.7
Jan-26-2014	20.4	40.4					7,010.0	285.1
Jan-27-2014	21.1	41.9					7,010.0	295.1
Jan-28-2014	17.8	35.4					7,010.0	249.5
Jan-29-2014	16.5	32.7	0.0288	13.5	7,010.0	6,880.0	7,010.0	230.7
Jan-30-2014	14.5	28.7					6,450.0	186.2
Jan-31-2014	16.0	31.7					6,450.0	205.8
Feb-01-2014	9.9	19.7					6,450.0	127.9
Feb-02-2014	9.3	18.4					6,450.0	119.1
Feb-03-2014	18.5	36.8					6,450.0	238.4
Feb-04-2014	21.0	41.7				6,160.0	6,450.0	270.7
Feb-05-2014	14.7	29.1	0.0299	11.8	6,450.0		6,450.0	188.6
Feb-06-2014	17.4	34.6					6,940.0	241.5
Feb-07-2014	31.9	63.4					6,940.0	442.2
Feb-08-2014	35.1	69.5					6,940.0	485.4
Feb-09-2014	35.8	70.9					6,940.0	495.2
Feb-10-2014	21.8	43.3					6,940.0	302.4
Feb-11-2014	19.9	39.5					6,940.0	275.5
Feb-12-2014	16.8	33.4	0.0301	13.8	6,940.0	6,970.0	6,940.0	232.8
Feb-13-2014	18.2	36.1					5,550.0	201.4
Feb-14-2014	18.8	37.3					5,550.0	208.3
Feb-15-2014	19.2	38.1					5,550.0	212.7
Feb-16-2014	19.8	39.2					5,550.0	218.8
Feb-17-2014	19.2	38.1					5,550.0	212.4
Feb-18-2014	28.0	55.6					5,550.0	310.2
Feb-19-2014	22.7	45.0	0.0331	9.9	5,550.0	5,490.0	5,550.0	251.3
Feb-20-2014	12.5	24.7					7,890.0	195.9
Feb-21-2014	9.3	18.5					7,890.0	146.8
Feb-22-2014	5.7	11.4					7,890.0	90.3
Feb-23-2014	4.6	9.2					7,890.0	73.0
Feb-24-2014	5.9	11.7					7,890.0	92.8
Feb-25-2014	7.3	14.6					7,890.0	115.7
Feb-26-2014	8.9	17.7	0.0291	14.3	7,890.0	7,660.0	7,890.0	140.4
Feb-27-2014	28.2	55.9					6,080.0	341.9
Feb-28-2014	43.5	86.3					6,080.0	527.7
Mar-01-2014	44.4	88.0					6,080.0	538.0
Mar-02-2014	29.3	58.2					6,080.0	355.7
Mar-03-2014	29.3	58.1					6,080.0	355.0
Mar-04-2014	30.1	59.6					6,080.0	364.6
Mar-05-2014	24.9	49.5	0.0338	10.8	6,080.0	5,930.0	6,080.0	302.4
Mar-06-2014	15.4	30.5					7,300.0	223.6
Mar-07-2014	10.9	21.5					7,300.0	158.2
Mar-08-2014	9.7	19.3					7,300.0	141.9
Mar-09-2014	9.7	19.2					7,300.0	140.9
Mar-10-2014	10.4	20.6					7,300.0	150.9
Mar-11-2014	8.3	16.5					7,300.0	121.3
Mar-12-2014	7.2	14.2	0.0302	14.1	7,300.0	7,520.0	7,300.0	104.6
Mar-13-2014	6.3	12.5					7,410.0	93.3
Mar-14-2014	4.6	9.1					7,410.0	67.5
Mar-15-2014	2.0	4.0					7,410.0	30.2
Mar-16-2014	3.1	6.2					7,410.0	46.5
Mar-17-2014	2.7	5.4					7,410.0	40.2
Mar-18-2014	3.5	6.9					7,410.0	51.2
Mar-19-2014	3.0	6.0	0.0295	13.5	7,410.0	7,200.0	7,410.0	44.8
Mar-20-2014	2.4	4.7					7,580.0	35.8
Mar-21-2014	1.8	3.5					7,580.0	26.8
Mar-22-2014	1.8	3.6					7,580.0	27.6
Mar-23-2014	2.3	4.5					7,580.0	34.2
Mar-24-2014	2.6	5.1					7,580.0	39.1

PARAMETER	Flow	Discharge	Total Selenium	Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	microm	microm	tons
Mar-25-2014	3.2	6.4					7,580.0	49.0
Mar-26-2014	1.9	3.7	0.0303	13.8	7,580.0	7,310.0	7,580.0	28.1
Mar-27-2014	2.2	4.4					5,340.0	23.4
Mar-28-2014	4.2	8.4					5,340.0	44.9
Mar-29-2014	6.3	12.5					5,340.0	67.3
Mar-30-2014	9.8	19.5					5,340.0	104.5
Mar-31-2014	9.3	18.5					5,340.0	99.4
Apr-01-2014	5.9	11.7					5,340.0	62.6
Apr-02-2014	8.3	16.4	0.0455	8.6	5,340.0	6,800.0	5,340.0	88.0
Apr-03-2014	9.3	18.5					7,080.0	131.9
Apr-04-2014	9.6	19.1					7,080.0	136.0
Apr-05-2014	7.2	14.4					7,080.0	102.4
Apr-06-2014	8.0	15.8					7,080.0	112.3
Apr-07-2014	7.7	15.4					7,080.0	109.4
Apr-08-2014	6.3	12.5					7,080.0	88.8
Apr-09-2014	6.1	12.1	0.0307	12.4	7,080.0	6,840.0	7,080.0	86.2
Apr-10-2014	6.2	12.4					8,080.0	100.5
Apr-11-2014	3.1	6.1					8,080.0	50.0
Apr-12-2014	3.1	6.1					8,080.0	50.0
Apr-13-2014	1.3	2.6					8,080.0	21.0
Apr-14-2014	1.3	2.6					8,080.0	21.0
Apr-15-2014	4.0	7.9					8,080.0	64.5
Apr-16-2014	4.0	7.9	0.0182	15.3	8,080.0	7,999.0	8,080.0	64.5
Apr-17-2014	4.0	7.9					7,280.0	58.1
Apr-18-2014	4.0	7.9					7,280.0	58.1
Apr-19-2014	3.2	6.3					7,280.0	45.9
Apr-20-2014	3.2	6.3					7,280.0	45.9
Apr-21-2014	3.2	6.3					7,280.0	45.9
Apr-22-2014	3.2	6.3					7,280.0	45.9
Apr-23-2014	8.2	16.2	0.0253	12.8	7,280.0	7,150.0	7,280.0	118.5
Apr-24-2014	8.6	17.1					6,240.0	107.1
Apr-25-2014	4.0	7.9					6,240.0	49.8
Apr-26-2014	18.0	35.6					6,240.0	223.7
Apr-27-2014	15.4	30.5					6,240.0	191.5
Apr-28-2014	12.6	25.0					6,240.0	156.8
Apr-29-2014	18.2	36.1					6,240.0	226.5
Apr-30-2014	12.2	24.2	0.0370	9.7	6,240.0	5,700.0	6,240.0	151.9
May-01-2014	7.8	15.6					6,310.0	98.7
May-02-2014	10.0	19.8					6,310.0	125.7
May-03-2014	9.9	19.6					6,310.0	124.6
May-04-2014	9.4	18.6					6,310.0	118.0
May-05-2014	9.5	18.9					6,310.0	120.0
May-06-2014	6.6	13.0					6,310.0	82.5
May-07-2014	4.8	9.6	0.0292	10.9	6,310.0	6,230.0	6,310.0	60.9
May-08-2014	4.3	8.6					6,870.0	59.2
May-09-2014	4.4	8.7					6,870.0	60.3
May-10-2014	4.4	8.6					6,870.0	59.7
May-11-2014	3.6	7.1					6,870.0	48.9
May-12-2014	3.3	6.5					6,870.0	44.9
May-13-2014	1.1	2.1					6,870.0	14.6
May-14-2014	1.1	2.3	0.0378	11.6	6,870.0	6,740.0	6,870.0	15.6
May-15-2014	1.6	3.2					6,610.0	21.3
May-16-2014	2.1	4.2					6,610.0	27.9
May-17-2014	1.5	3.0					6,610.0	19.7
May-18-2014	1.7	3.4					6,610.0	22.3
May-19-2014	2.5	4.9					6,610.0	32.7
May-20-2014	5.8	11.5					6,610.0	76.1
May-21-2014	2.7	5.4	0.0515	9.7	6,610.0	6,506.0	6,610.0	35.7
May-22-2014	0.0	0.0						0.0
May-23-2014	4.2	8.3					5,010.0	41.9
May-24-2014	5.7	11.3					5,010.0	57.0
May-25-2014	5.8	11.6					5,010.0	58.4
May-26-2014	9.7	19.2					5,010.0	96.7
May-27-2014	6.1	12.0					5,010.0	60.7
May-28-2014	5.6	11.0	0.0302	7.4	5,010.0	4,890.0	5,010.0	55.6
May-29-2014	3.8	7.5					7,070.0	53.6
May-30-2014	1.7	3.4					7,070.0	24.2
May-31-2014	1.8	3.6					7,070.0	25.9
Jun-01-2014	2.1	4.2					7,070.0	29.6
Jun-02-2014	2.3	4.6					7,070.0	32.6
Jun-03-2014	0.9	1.9					7,070.0	13.2
Jun-04-2014	1.1	2.2	0.0330	12.3	7,070.0	6,940.0	7,070.0	15.7
Jun-05-2014	1.6	3.2					7,820.0	25.0
Jun-06-2014	0.4	0.8					7,820.0	6.2
Jun-07-2014	0.1	0.1					7,820.0	1.0
Jun-08-2014	0.6	1.2					7,820.0	9.2
Jun-09-2014	3.5	7.0					7,820.0	54.7
Jun-10-2014	3.7	7.2					7,820.0	56.9
Jun-11-2014	6.6	13.1	0.0304	13.7	7,820.0	7,706.0	7,820.0	102.7
Jun-12-2014	9.5	18.9					5,560.0	105.4
Jun-13-2014	2.0	3.9					5,560.0	21.9
Jun-14-2014	5.7	11.3					5,560.0	63.3
Jun-15-2014	6.1	12.0					5,560.0	67.2
Jun-16-2014	7.7	15.2					5,560.0	85.2

PARAMETER	Flow	Discharge	Total Selenium	Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	microm	microm	tons
Jun-17-2014	10.1	20.1					5,560.0	112.2
Jun-18-2014	11.3	22.3	0.0390	9.4	5,560.0	5,550.0	5,560.0	124.8
Jun-19-2014	9.7	19.2					7,180.0	138.7
Jun-20-2014	16.7	33.1					7,180.0	239.2
Jun-21-2014	17.8	35.4					7,180.0	255.5
Jun-22-2014	12.2	24.2					7,180.0	174.4
Jun-23-2014	13.0	25.8	0.0186	16.5	8,800.0		8,800.0	228.7
Jun-24-2014	11.2	22.2	0.0186	17.1	9,080.0		9,080.0	203.1
Jun-25-2014	10.1	20.1	0.0197	15.2	8,340.0	8,300.0	8,340.0	168.8
Jun-26-2014	11.2	22.3	0.0252	14.6	8,140.0		8,140.0	182.6
Jun-27-2014	15.2	30.1	0.0266	16.6	8,880.0		8,880.0	268.6
Jun-28-2014	10.5	20.9	0.0236	17.6	9,380.0		9,380.0	197.1
Jun-29-2014	6.2	12.4	0.0175	17.2	8,870.0		8,870.0	110.2
Jun-30-2014	6.6	13.0	0.0229	17.2	8,920.0		8,920.0	116.6
Jul-01-2014	8.7	17.3	0.0263	16.5	8,820.0		8,820.0	153.5
Jul-02-2014	8.5	16.9	0.0321	15.8	8,930.0	7,780.0	8,930.0	151.6
Jul-03-2014	1.8	3.5	0.0246	15.7	8,430.0		8,430.0	30.0
Jul-04-2014	3.0	6.0	0.0248	12.0	6,790.0		6,790.0	41.1
Jul-05-2014	3.9	7.7	0.0242	10.9	6,240.0		6,240.0	48.4
Jul-06-2014	4.3	8.5	0.0279	16.1	8,730.0		8,730.0	74.7
Jul-07-2014	1.9	3.8	0.0299	10.8	6,300.0		6,300.0	24.4
Jul-08-2014	6.5	13.0	0.0324	11.5	6,750.0		6,750.0	88.1
Jul-09-2014	5.5	10.9	0.0280	12.4	6,810.0	6,400.0	6,810.0	74.6
Jul-10-2014	4.2	8.3	0.0306	14.2	7,760.0		7,760.0	64.6
Jul-11-2014	6.9	13.6	0.0290	16.4	8,570.0		8,570.0	117.2
Jul-12-2014	4.1	8.2	0.0277	18.0	9,280.0		9,280.0	76.6
Jul-13-2014	4.2	8.3	0.0304	12.5	7,110.0		7,110.0	59.0
Jul-14-2014	4.7	9.3	0.0308	17.2	8,920.0		8,920.0	83.2
Jul-15-2014	4.7	9.3	0.0285	16.7	8,840.0		8,840.0	82.6
Jul-16-2014	5.3	10.5	0.0354	15.7	8,490.0	8,200.0	8,490.0	89.4
Jul-17-2014	4.5	8.8	0.0321	18.4	9,570.0		9,570.0	85.1
Jul-18-2014	4.4	8.7	0.0321	17.9	9,210.0		9,210.0	80.7
Jul-19-2014	4.5	8.9	0.0324	17.9	9,260.0		9,260.0	83.3
Jul-20-2014	4.1	8.1	0.0325	16.6	8,870.0		8,870.0	72.5
Jul-21-2014	5.9	11.8	0.0246	12.2	7,080.0		7,080.0	83.8
Jul-22-2014	5.8	11.5	0.0232	9.3	5,700.0		5,700.0	66.2
Jul-23-2014	9.5	18.8	0.0204	7.9	4,950.0		4,950.0	93.4
Jul-24-2014	6.5	13.0	0.0260	8.3	5,230.0		5,230.0	68.2
Jul-25-2014	4.7	9.4	0.0256	8.9	5,530.0		5,530.0	52.1
Jul-26-2014	3.3	6.6	0.0253	10.6	6,220.0		6,220.0	41.5
Jul-27-2014	3.4	6.8	0.0254	10.2	6,190.0		6,190.0	42.4
Jul-28-2014	3.0	6.0	0.0226	10.7	6,120.0		6,120.0	36.9
Jul-29-2014	2.5	4.9	0.0217	10.6	6,100.0		6,100.0	30.0
Jul-30-2014	1.5	2.9	0.0231	11.4	6,470.0	5,540.0	6,470.0	19.0
Jul-31-2014	0.7	1.4	0.0222	13.7	7,200.0		7,200.0	9.8
Aug-01-2014	0.2	0.3	0.0194	18.7	9,640.0		9,640.0	2.9
Aug-02-2014	0.0	0.0						0.0
Aug-03-2014	0.0	0.0						0.0
Aug-04-2014	1.7	3.3	0.0173	14.7	7,500.0		7,500.0	25.2
Aug-05-2014	0.6	1.2	0.0110	12.7	6,440.0		6,440.0	8.1
Aug-06-2014	0.0	0.0						0.0
Aug-07-2014	0.0	0.0						0.0
Aug-08-2014	0.0	0.0						0.0
Aug-09-2014	0.0	0.0						0.0
Aug-10-2014	0.0	0.0						0.0
Aug-11-2014	0.8	1.5	0.0133	8.8	5,410.0		5,410.0	8.1
Aug-12-2014	0.0	0.0						0.0
Aug-13-2014	0.0	0.0						0.0
Aug-14-2014	0.0	0.0						0.0
Aug-15-2014	0.0	0.0						0.0
Aug-16-2014	0.0	0.0						0.0
Aug-17-2014	0.0	0.0						0.0
Aug-18-2014	0.1	0.1	0.0106	12.2	7,070.0		7,070.0	1.0
Aug-19-2014	0.0	0.0						0.0
Aug-20-2014	0.0	0.0						0.0
Aug-21-2014	0.0	0.0						0.0
Aug-22-2014	0.0	0.0						0.0
Aug-23-2014	0.0	0.0						0.0
Aug-24-2014	0.0	0.0						0.0
Aug-25-2014	0.2	0.3	0.0144	16.7	8,780.0		8,780.0	2.8
Aug-26-2014	0.7	1.4	0.0151	15.4	8,270.0		8,270.0	11.2
Aug-27-2014	0.0	0.0	0.0142	14.5	7,900.0	8,200.0	7,900.0	0.4
Aug-28-2014	0.6	1.1	0.0159	12.9	7,210.0		7,210.0	8.3
Aug-29-2014	1.9	3.7	0.0150	11.7	6,460.0		6,460.0	24.0
Aug-30-2014	1.1	2.2	0.0138	11.4	6,380.0		6,380.0	13.9
Aug-31-2014	0.0	0.0						0.0
Sep-01-2014	0.0	0.0						0.0
Sep-02-2014	0.0	0.0						0.0
Sep-03-2014	0.0	0.0						0.0
Sep-04-2014	0.0	0.0						0.0
Sep-05-2014	0.0	0.0						0.0
Sep-06-2014	0.0	0.0						0.0
Sep-07-2014	0.0	0.0						0.0
Sep-08-2014	0.0	0.0						0.0

PARAMETER	Flow	Discharge	Total Selenium	Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	microm	microm	tons
Sep-09-2014	0.0	0.0						0.0
Sep-10-2014	0.0	0.0						0.0
Sep-11-2014	0.0	0.0						0.0
Sep-12-2014	0.0	0.0						0.0
Sep-13-2014	0.0	0.0						0.0
Sep-14-2014	0.2	0.3	0.0100	16.0	8,330.0		8,330.0	2.8
Sep-15-2014	1.9	3.7	0.0103	15.2	7,660.0		7,660.0	28.3
Sep-16-2014	0.6	1.1	0.0102	14.9	7,630.0		7,630.0	8.5
Sep-17-2014	0.0	0.0						0.0
Sep-18-2014	0.0	0.0						0.0
Sep-19-2014	0.0	0.0						0.0
Sep-20-2014	0.0	0.0						0.0
Sep-21-2014	0.0	0.0						0.0
Sep-22-2014	0.0	0.0						0.0
Sep-23-2014	0.0	0.0						0.0
Sep-24-2014	0.0	0.0						0.0
Sep-25-2014	0.0	0.0						0.0
Sep-26-2014	0.0	0.0						0.0
Sep-27-2014	0.0	0.0						0.0
Sep-28-2014	0.0	0.0						0.0
Sep-29-2014	0.0	0.0						0.0
Sep-30-2014	0.0	0.0						0.0
Oct-01-2014	0.0	0.0						0.0
Oct-02-2014	0.0	0.0						0.0
Oct-03-2014	0.0	0.0						0.0
Oct-04-2014	0.0	0.0						0.0
Oct-05-2014	0.0	0.0						0.0
Oct-06-2014	0.0	0.0						0.0
Oct-07-2014	0.0	0.0						0.0
Oct-08-2014	0.0	0.0						0.0
Oct-09-2014	0.0	0.0						0.0
Oct-10-2014	0.0	0.0						0.0
Oct-11-2014	0.0	0.0						0.0
Oct-12-2014	0.0	0.0						0.0
Oct-13-2014	0.0	0.0						0.0
Oct-14-2014	0.0	0.0						0.0
Oct-15-2014	0.0	0.0						0.0
Oct-16-2014	0.0	0.0						0.0
Oct-17-2014	0.0	0.0						0.0
Oct-18-2014	0.0	0.0						0.0
Oct-19-2014	0.0	0.0						0.0
Oct-20-2014	0.0	0.0						0.0
Oct-21-2014	0.0	0.0						0.0
Oct-22-2014	0.0	0.0						0.0
Oct-23-2014	0.0	0.0						0.0
Oct-24-2014	0.0	0.0						0.0
Oct-25-2014	0.0	0.0						0.0
Oct-26-2014	0.0	0.0						0.0
Oct-27-2014	0.0	0.0						0.0
Oct-28-2014	0.0	0.0						0.0
Oct-29-2014	0.0	0.0						0.0
Oct-30-2014	0.0	0.0						0.0
Oct-31-2014	5.5	10.9					9,917.5	108.9
Nov-01-2014	30.7	60.8					9,917.5	606.4
Nov-02-2014	38.1	75.7					9,917.5	754.7
Nov-03-2014	23.7	47.0	0.0164	26.3	11,900.0		11,900.0	563.0
Nov-04-2014	21.7	43.1	0.0161	26.6	12,000.0		12,000.0	519.6
Nov-05-2014	18.5	36.7	0.0155	26.3	12,000.0	11,000.0	12,000.0	442.6
Nov-06-2014	17.3	34.2	0.0158	26.4	11,800.0		11,800.0	406.1
Nov-07-2014	9.9	19.7	0.0153	27.1	12,200.0		12,200.0	241.7
Nov-08-2014	0.1	0.1	0.0149	25.9	12,000.0		12,000.0	1.4
Nov-09-2014	0.0	0.0						0.0
Nov-10-2014	1.4	2.8	0.0139	16.3	8,000.0		8,000.0	22.2
Nov-11-2014	4.6	9.2	0.0145	14.7	7,150.0		7,150.0	65.8
Nov-12-2014	1.3	2.6	0.0141	14.6	7,050.0	6,900.0	7,050.0	18.7
Nov-13-2014	0.0	0.0						0.0
Nov-14-2014	0.0	0.0						0.0
Nov-15-2014	0.0	0.0	0.0133	14.1	7,100.0		7,100.0	0.1
Nov-16-2014	0.0	0.0						0.0
Nov-17-2014	0.0	0.0						0.0
Nov-18-2014	0.0	0.0						0.0
Nov-19-2014	0.0	0.0						0.0
Nov-20-2014	0.0	0.0						0.0
Nov-21-2014	2.5	4.9					7,140.0	34.9
Nov-22-2014	10.0	19.9					7,140.0	142.6
Nov-23-2014	3.3	6.5					7,140.0	46.8
Nov-24-2014	3.7	7.4	0.0160	14.9	7,460.0		7,460.0	55.7
Nov-25-2014	3.1	6.2	0.0160	15.0	7,390.0		7,390.0	45.8
Nov-26-2014	2.1	4.1	0.0153	14.3	7,220.0		7,220.0	30.0
Nov-27-2014	4.8	9.5	0.0148	14.9	7,170.0		7,170.0	68.7
Nov-28-2014	8.1	16.1	0.0148	14.9	7,410.0		7,410.0	120.3
Nov-29-2014	8.5	16.8	0.0147	14.9	7,390.0		7,390.0	124.7
Nov-30-2014	14.7	29.1	0.0150	13.7	6,740.0		6,740.0	197.2
Dec-01-2014	17.0	33.7					6,930.0	234.5

PARAMETER	Flow	Discharge	Total Selenium	Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	microm	microm	tons
Dec-02-2014	30.2	59.9	0.0151	14.3	7,120.0		7,120.0	428.7
Dec-03-2014	60.2	119.4	0.0172	11.4	6,520.0	6,730.0	6,520.0	782.6
Dec-04-2014	63.2	125.3	0.0227	12.6	7,140.0		7,140.0	899.9
Dec-05-2014	30.5	60.4	0.0159	13.9	7,750.0		7,750.0	471.0
Dec-06-2014	8.0	15.9	0.0184	12.7	7,510.0		7,510.0	119.8
Dec-07-2014	5.6	11.0	0.0229	13.2	7,650.0		7,650.0	85.0
Dec-08-2014	2.6	5.2	0.0166	14.2	8,000.0		8,000.0	41.6
Dec-09-2014	0.3	0.5	0.0158	13.8	7,900.0		7,900.0	4.0
Dec-10-2014	4.0	7.9	0.0225	13.6	7,750.0	7,800.0	7,750.0	61.8
Dec-11-2014	24.3	48.3	0.0142	10.4	6,210.0		6,210.0	301.4
Dec-12-2014	69.6	138.1	0.0186	8.0	4,570.0		4,570.0	634.8
Dec-13-2014	97.6	193.6	0.0212	8.8	5,190.0		5,190.0	1,010.4
Dec-14-2014	97.7	193.7	0.0239	10.0	5,700.0		5,700.0	1,110.3
Dec-15-2014	73.8	146.3	0.0279	10.5	6,110.0		6,110.0	899.1
Dec-16-2014	49.4	98.1	0.0217	10.9	6,310.0		6,310.0	622.2
Dec-17-2014	69.3	137.4	0.0245	11.0	6,160.0	5,960.0	6,160.0	851.4
Dec-18-2014	67.1	133.0	0.0279	10.7	6,120.0		6,120.0	818.6
Dec-19-2014	67.1	133.0	0.0309	10.8	6,420.0		6,420.0	858.7
Dec-20-2014	67.1	133.0	0.0310	11.1	6,560.0		6,560.0	877.4
Dec-21-2014	67.1	133.0	0.0333	11.2	6,660.0		6,660.0	890.8
Dec-22-2014	54.6	108.4					6,635.0	723.1
Dec-23-2014	43.5	86.3	0.0338	11.2	6,610.0		6,610.0	573.8
Dec-24-2014	39.4	78.2	0.0391	11.2	6,790.0		6,790.0	533.8
Dec-25-2014	34.1	67.7	0.0419	11.5	6,870.0		6,870.0	467.4
Dec-26-2014	28.3	56.2	0.0417	11.8	6,790.0		6,790.0	383.6
Dec-27-2014	22.8	45.3	0.0401	12.5	7,140.0		7,140.0	325.0
Dec-28-2014	11.0	21.7	0.0390	11.9	7,030.0		7,030.0	153.6
Dec-29-2014	5.5	10.9	0.0419	11.4	6,960.0		6,960.0	76.4
Dec-30-2014	12.0	23.7	0.0677	8.7	6,620.0		6,620.0	158.1
Dec-31-2014	10.7	21.3	0.0552	11.5	7,190.0		7,190.0	154.0

Notes:

Table 1b. Monthly Averages and Totals

PARAMETER	Total Flow	Discharge	Average Selenium Concentration	Average Boron	Average Specific Conductance (*)	Average Field Grab	Average Daily Specific Conductance	Salt Load	Salt Load Objective (Critical Year)
DATA SOURCE	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	UA3
UNITS	cfs	acre-feet	mg/L	mg/L	microm	microm	microm	tons	tons
Jan-15	10.5	646.4	0.0267	13.8	7,223	6,977	7,189	4,625	4,283
Feb-15	18.7	1,039.6	0.0306	12.4	6,708	6,570	6,681	6,759	6,779
Mar-15	9.8	600.1	0.0310	13.1	7,093	6,990	6,875	3,911	8,031
Apr-15	7.0	415.0	0.0313	11.8	6,804	6,898	7,048	2,814	5,910
May-15	4.6	282.5	0.0372	9.9	6,200	6,092	6,327	1,743	5,792
Jun-15	7.2	427.8	0.0250	15.2	8,260	7,124	7,369	3,210	5,991
Jul-15	4.6	282.7	0.0275	13.5	7,435	6,980	7,435	2,124	6,055
Aug-15	0.2	15.2	0.0145	13.6	7,369	8,200	7,369	106	5,373
Sep-15	0.1	5.1	0.0102	15.4	7,873	N/A	7,873	40	2,838
Oct-15	0.2	10.9	N/A	N/A	N/A	N/A	9,918	109	2,180
Nov-15	7.6	452.4	0.0151	18.9	8,940	8,950	8,783	4,509	2,265
Dec-15	39.8	2,446.3	0.0291	11.5	6,736	6,830	6,739	15,553	2,502
Calendar Year Totals/Avgs:		6,624	0.025	13.5	7,331	7,161	7,467	45,504	58,000

Notes:

Table 2a. Water monitoring of San Luis Drain Discharge into Mud Slough (north)
Terminus at Mud Slough (Station B2) and Gun Club Road (Station B3)

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B3)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	mg/L	microm	lbs
Jan-01-2014	10.0	19.8	0.0162	8.5	4850.0	0.0162	4,850	0.9
Jan-02-2014	9.9	19.7	0.0160	8.2	4750.0	0.0160	4,750	0.9
Jan-03-2014	10.0	19.8	0.0140	7.8	4540.0	0.0140	4,540	0.8
Jan-04-2014	10.0	19.7	0.0124	7.5	4350.0	0.0124	4,350	0.7
Jan-05-2014	10.0	19.9	0.0110	7.3	4450.0	0.0110	4,450	0.6
Jan-06-2014	10.0	19.8	0.0100	7.6	4530.0	0.0100	4,530	0.5
Jan-07-2014	10.6	21.0	0.0117	8.3	5010.0	0.0117	5,010	0.7
Jan-08-2014	11.1	21.9	0.0104	8.1	4720.0	0.0104	4,720	0.6
Jan-09-2014	12.8	25.4	0.0112	8.0	4650.0	0.0112	4,650	0.8
Jan-10-2014	12.6	25.1	0.0091	7.7	4580.0	0.0091	4,580	0.6
Jan-11-2014	12.6	25.0	0.0116	8.0	4700.0	0.0116	4,700	0.8
Jan-12-2014	10.8	21.4	0.0117	8.3	4860.0	0.0117	4,860	0.7
Jan-13-2014	13.7	27.2	0.0119	8.3	4800.0	0.0119	4,800	0.9
Jan-14-2014	15.1	29.9	0.0126	9.1	5280.0	0.0126	5,280	1.0
Jan-15-2014	16.5	32.8	0.0163	10.1	5850.0	0.0163	5,850	1.5
Jan-16-2014	16.6	33.0	0.0146	10.0	5440.0	0.0146	5,440	1.3
Jan-17-2014	14.6	29.0	0.0135	8.4	5080.0	0.0135	5,080	1.1
Jan-18-2014	15.5	30.7	0.0144	9.0	5370.0	0.0144	5,370	1.2
Jan-19-2014	18.1	36.0	0.0143	9.1	5470.0	0.0143	5,470	1.4
Jan-20-2014	17.4	34.6	0.0145	9.3	5480.0	0.0145	5,480	1.4
Jan-21-2014	16.5	32.7	0.0148	9.4	5550.0	0.0148	5,550	1.3
Jan-22-2014	17.0	33.7	0.0196	9.9	5730.0	0.0196	5,730	1.8
Jan-23-2014	17.8	35.3	0.0194	9.9	5810.0	0.0194	5,810	1.9
Jan-24-2014	18.4	36.5	0.0195	9.9	5720.0	0.0195	5,720	1.9
Jan-25-2014	18.5	36.7	0.0196	9.9	5740.0	0.0196	5,740	2.0
Jan-26-2014	22.0	43.6	0.0197	9.9	5780.0	0.0197	5,780	2.3
Jan-27-2014	24.6	48.8	0.0191	9.8	5790.0	0.0191	5,790	2.5
Jan-28-2014	27.6	54.7	0.0192	9.9	5850.0	0.0192	5,850	2.9
Jan-29-2014	24.3	48.2	0.0209	10.1	5910.0	0.0209	5,910	2.7
Jan-30-2014	23.5	46.6	0.0208	9.4	5560.0	0.0208	5,560	2.6
Jan-31-2014	20.0	39.7	0.0251	10.1	5920.0	0.0251	5,920	2.7
Feb-01-2014	21.6	42.9	0.0231	9.9	5910.0	0.0231	5,910	2.7
Feb-02-2014	16.8	33.4	0.0235	10.2	5950.0	0.0235	5,950	2.1
Feb-03-2014	13.3	26.4	0.0235	10.4	5930.0	0.0235	5,930	1.7
Feb-04-2014	22.4	44.5	0.0229	10.9	6160.0	0.0229	6,160	2.8
Feb-05-2014	26.5	52.6	0.0212	10.9	5980.0	0.0212	5,980	3.0
Feb-06-2014	21.8	43.2	0.0204	11.3	6020.0	0.0204	6,020	2.4
Feb-07-2014	23.3	46.3	0.0205	11.0	5840.0	0.0205	5,840	2.6
Feb-08-2014	38.6	76.5	0.0247	9.9	5490.0	0.0247	5,490	5.1
Feb-09-2014	41.6	82.5	0.0254	11.3	5990.0	0.0254	5,990	5.7
Feb-10-2014	40.3	79.9	0.0285	11.5	6000.0	0.0285	6,000	6.2
Feb-11-2014	28.1	55.7	0.0356	11.0	6030.0	0.0356	6,030	5.4
Feb-12-2014	24.7	48.9	0.0311	10.6	5800.0	0.0311	5,800	4.1
Feb-13-2014	21.8	43.2	0.0313	11.2	6110.0	0.0313	6,110	3.7
Feb-14-2014	22.8	45.3	0.0290	11.8	6100.0	0.0290	6,100	3.6
Feb-15-2014	23.5	46.5	0.0258	11.8	6410.0	0.0258	6,410	3.3
Feb-16-2014	23.4	46.4	0.0253	11.9	6360.0	0.0253	6,360	3.2
Feb-17-2014	24.3	48.3	0.0267	12.3	6460.0	0.0267	6,460	3.5
Feb-18-2014	23.8	47.2	0.0276	12.3	6550.0	0.0276	6,550	3.5
Feb-19-2014	31.5	62.4	0.0289	12.1	6460.0	0.0289	6,460	4.9
Feb-20-2014	28.3	56.1	0.0317	12.1	6610.0	0.0317	6,610	4.8
Feb-21-2014	17.5	34.7	0.0330	11.4	6380.0	0.0330	6,380	3.1
Feb-22-2014	12.6	24.9	0.0315	10.8	6190.0	0.0315	6,190	2.1
Feb-23-2014	10.2	20.2	0.0284	10.2	5810.0	0.0284	5,810	1.6
Feb-24-2014	8.8	17.4	0.0285	10.2	5800.0	0.0285	5,800	1.3
Feb-25-2014	8.6	17.1	0.0292	10.2	5820.0	0.0292	5,820	1.4
Feb-26-2014	10.9	21.6	0.0266	9.6	5410.0	0.0266	5,410	1.6
Feb-27-2014	13.5	26.8	0.0248	9.1	5170.0	0.0248	5,170	1.8
Feb-28-2014	39.0	77.4	0.0236	9.9	5480.0	0.0236	5,480	5.0
Mar-01-2014	50.6	100.4	0.0236	11.8	6330.0	0.0236	6,330	6.4
Mar-02-2014	48.0	95.2	0.0348	10.3	5910.0	0.0348	5,910	9.0
Mar-03-2014	34.6	68.7	0.0344	9.7	5660.0	0.0344	5,660	6.4
Mar-04-2014	33.7	66.9	0.0333	10.6	5890.0	0.0333	5,890	6.1
Mar-05-2014	35.0	69.4	0.0320	10.3	5840.0	0.0320	5,840	6.0
Mar-06-2014	28.9	57.3	0.0333	10.9	6100.0	0.0333	6,100	5.2
Mar-07-2014	20.3	40.2	0.0335	10.6	5990.0	0.0335	5,990	3.7
Mar-08-2014	15.6	31.0	0.0308	10.0	5710.0	0.0308	5,710	2.6
Mar-09-2014	14.0	27.7	0.0290	10.0	5660.0	0.0290	5,660	2.2
Mar-10-2014	12.2	24.3	0.0299	9.7	5560.0	0.0299	5,560	2.0
Mar-11-2014	12.9	25.5	0.0305	9.9	5590.0	0.0305	5,590	2.1
Mar-12-2014	13.1	25.9	0.0260	10.7	5900.0	0.0260	5,900	1.8
Mar-13-2014	10.8	21.4	0.0262	11.0	5900.0	0.0262	5,900	1.5
Mar-14-2014	10.0	19.9	0.0233	11.3	5960.0	0.0233	5,960	1.3
Mar-15-2014	8.6	17.2	0.0218	11.6	6170.0	0.0218	6,170	1.0
Mar-16-2014	7.4	14.7	0.0203	11.7	6260.0	0.0203	6,260	0.8
Mar-17-2014	6.2	12.3	0.0192	11.9	6290.0	0.0192	6,290	0.6
Mar-18-2014	6.0	11.9	0.0195	12.3	6590.0	0.0195	6,590	0.6
Mar-19-2014	6.4	12.8	0.0194	12.2	6660.0	0.0194	6,660	0.7
Mar-20-2014	6.3	12.5	0.0187	12.2	6520.0	0.0187	6,520	0.6
Mar-21-2014	6.1	12.0	0.0191	11.9	6370.0	0.0191	6,370	0.6
Mar-22-2014	5.7	11.3	0.0172	11.4	6190.0	0.0172	6,190	0.5

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B3)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	mg/L	microm	lbs
Mar-23-2014	5.6	11.1	0.0164	11.0	6030.0	0.0164	6,030	0.5
Mar-24-2014	5.6	11.1	0.0162	10.8	5910.0	0.0162	5,910	0.5
Mar-25-2014	5.6	11.1	0.0161	10.9	6000.0	0.0161	6,000	0.5
Mar-26-2014	5.8	11.5	0.0141	11.0	6150.0	0.0141	6,150	0.4
Mar-27-2014	6.0	11.9	0.0130	10.9	6220.0	0.0130	6,220	0.4
Mar-28-2014	5.7	11.4	0.0113	10.4	5900.0	0.0113	5,900	0.4
Mar-29-2014	5.8	11.5	0.0100	10.1	5770.0	0.0100	5,770	0.3
Mar-30-2014	7.8	15.5	0.0089	9.5	5530.0	0.0089	5,530	0.4
Mar-31-2014	11.3	22.5	0.0082	9.8	5460.0	0.0082	5,460	0.5
Apr-01-2014	12.4	24.6	0.0098	10.1	5810.0	0.0098	5,810	0.7
Apr-02-2014	10.2	20.2	0.0120	10.5	5940.0	0.0120	5,940	0.7
Apr-03-2014	9.0	17.8	0.0117	11.5	7030.0	0.0117	7,030	0.6
Apr-04-2014	10.1	20.1	0.0143	11.9	6750.0	0.0143	6,750	0.8
Apr-05-2014	10.5	20.8	0.0143	11.3	6590.0	0.0143	6,590	0.8
Apr-06-2014	9.9	19.6	0.0175	11.1	6460.0	0.0175	6,460	0.9
Apr-07-2014	9.4	18.7	0.0203	11.3	6580.0	0.0203	6,580	1.0
Apr-08-2014	9.2	18.2	0.0213	11.5	6670.0	0.0213	6,670	1.1
Apr-09-2014	7.8	15.5	0.0198	11.7	6700.0	0.0198	6,700	0.8
Apr-10-2014	6.9	13.8	0.0176	11.4	6610.0	0.0176	6,610	0.7
Apr-11-2014	6.7	13.2	0.0182	11.3	6600.0	0.0182	6,600	0.7
Apr-12-2014	5.9	11.7	0.0182	11.4	6640.0	0.0182	6,640	0.6
Apr-13-2014	5.6	11.1	0.0180	11.6	6640.0	0.0180	6,640	0.5
Apr-14-2014	5.6	11.2	0.0164	11.7	6770.0	0.0164	6,770	0.5
Apr-15-2014	5.6	11.1	0.0166	11.7	6860.0	0.0166	6,860	0.5
Apr-16-2014	5.4	10.8	0.0159	12.2	6940.0	0.0159	6,940	0.5
Apr-17-2014	5.6	11.1	0.0163	11.6	6870.0	0.0163	6,870	0.5
Apr-18-2014	7.4	14.6	0.0146	11.4	6800.0	0.0146	6,800	0.6
Apr-19-2014	7.0	13.8	0.0141	11.1	6600.0	0.0141	6,600	0.5
Apr-20-2014	5.8	11.5	0.0127	10.9	6550.0	0.0127	6,550	0.4
Apr-21-2014	5.5	11.0	0.0119	11.0	6580.0	0.0119	6,580	0.4
Apr-22-2014	4.9	9.7	0.0115	11.3	6630.0	0.0115	6,630	0.3
Apr-23-2014	3.8	7.5	0.0110	11.5	6790.0	0.0110	6,790	0.2
Apr-24-2014	5.4	10.6	0.0108	11.5	6730.0	0.0108	6,730	0.3
Apr-25-2014	5.8	11.5	0.0105	11.6	6780.0	0.0105	6,780	0.3
Apr-26-2014	8.5	16.9	0.0105	12.2	7090.0	0.0105	7,090	0.5
Apr-27-2014	14.0	27.8	0.0092	13.1	7480.0	0.0092	7,480	0.7
Apr-28-2014	12.9	25.7	0.0087	14.0	7980.0	0.0087	7,980	0.6
Apr-29-2014	12.8	25.3	0.0133	15.0	8410.0	0.0133	8,410	0.9
Apr-30-2014	17.5	34.6	0.0271	13.7	7880.0	0.0271	7,880	2.6
May-01-2014	13.7	27.3	0.0253	10.6	6470.0	0.0253	6,470	1.9
May-02-2014	10.3	20.4	0.0249	10.2	6130.0	0.0249	6,130	1.4
May-03-2014	9.3	18.5	0.0235	10.7	6380.0	0.0235	6,380	1.2
May-04-2014	9.8	19.4	0.0291	10.2	6250.0	0.0291	6,250	1.5
May-05-2014	9.3	18.5	0.0306	9.5	6030.0	0.0306	6,030	1.5
May-06-2014	9.1	18.0	0.0288	9.5	6010.0	0.0288	6,010	1.4
May-07-2014	8.3	16.5	0.0246	10.5	6050.0	0.0246	6,050	1.1
May-08-2014	6.3	12.5	0.0208	10.7	6130.0	0.0208	6,130	0.7
May-09-2014	5.7	11.3	0.0188	10.8	6250.0	0.0188	6,250	0.6
May-10-2014	5.2	10.3	0.0186	11.1	6320.0	0.0186	6,320	0.5
May-11-2014	4.6	9.2	0.0193	11.3	6330.0	0.0193	6,330	0.5
May-12-2014	5.9	11.8	0.0195	11.3	6390.0	0.0195	6,390	0.6
May-13-2014	6.5	12.8	0.0174	11.6	6480.0	0.0174	6,480	0.6
May-14-2014	5.7	11.2	0.0165	12.3	6960.0	0.0165	6,960	0.5
May-15-2014	5.4	10.7	0.0155	12.0	6490.0	0.0155	6,490	0.5
May-16-2014	4.9	9.7	0.0145	11.9	6720.0	0.0145	6,720	0.4
May-17-2014	4.3	8.6	0.0143	10.8	6690.0	0.0143	6,690	0.3
May-18-2014	4.4	8.7	0.0134	10.6	6640.0	0.0134	6,640	0.3
May-19-2014	4.8	9.5	0.0130	11.2	6630.0	0.0130	6,630	0.3
May-20-2014	5.1	10.2	0.0136	11.2	6650.0	0.0136	6,650	0.4
May-21-2014	5.6	11.2	0.0122	10.7	6840.0	0.0122	6,840	0.4
May-22-2014	6.2	12.3	0.0128	10.7	6790.0	0.0128	6,790	0.4
May-23-2014	6.0	11.9	0.0117	10.8	6900.0	0.0117	6,900	0.4
May-24-2014	5.9	11.7	0.0111	11.0	6950.0	0.0111	6,950	0.4
May-25-2014	6.1	12.0	0.0121	12.3	7660.0	0.0121	7,660	0.4
May-26-2014	5.7	11.3	0.0115	11.9	7390.0	0.0115	7,390	0.4
May-27-2014	6.5	12.8	0.0155	12.9	8250.0	0.0155	8,250	0.5
May-28-2014	6.6	13.2	0.0144	13.0	7790.0	0.0144	7,790	0.5
May-29-2014	5.8	11.4	0.0131	12.9	7660.0	0.0131	7,660	0.4
May-30-2014	5.8	11.5	0.0156	14.0	8100.0	0.0156	8,100	0.5
May-31-2014	5.5	10.9	0.0152	15.0	8530.0	0.0152	8,530	0.5
Jun-01-2014	5.2	10.4	0.0168	15.1	8570.0	0.0168	8,570	0.5
Jun-02-2014	4.5	8.9	0.0182	15.4	8830.0	0.0182	8,830	0.4
Jun-03-2014	3.5	7.0	0.0190	16.8	9790.0	0.0190	9,790	0.4
Jun-04-2014	3.6	7.1	0.0185	15.3	8960.0	0.0185	8,960	0.4
Jun-05-2014	3.9	7.8	0.0188	15.2	8930.0	0.0188	8,930	0.4
Jun-06-2014	2.9	5.8	0.0164	15.1	8670.0	0.0164	8,670	0.3
Jun-07-2014	2.3	4.6	0.0196	15.2	8820.0	0.0196	8,820	0.2
Jun-08-2014	3.3	6.6	0.0175	14.7	8610.0	0.0175	8,610	0.3
Jun-09-2014	2.0	4.0	0.0178	14.9	8650.0	0.0178	8,650	0.2
Jun-10-2014	0.9	1.8	0.0173	14.4	8530.0	0.0173	8,530	0.1
Jun-11-2014	0.7	1.3	0.0125	12.0	7170.0	0.0125	7,170	0.0
Jun-12-2014	1.8	3.6	0.0131	12.1	7120.0	0.0131	7,120	0.1
Jun-13-2014	7.4	14.8	0.0129	12.1	7150.0	0.0129	7,150	0.5

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B3)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	mg/L	microm	lbs
Jun-14-2014	6.4	12.6	0.0129	12.1	7150.0	0.0129	7,150	0.4
Jun-15-2014	5.4	10.8	0.0128	12.1	7210.0	0.0128	7,210	0.4
Jun-16-2014	5.5	11.0	0.0127	12.2	7170.0	0.0127	7,170	0.4
Jun-17-2014	5.8	11.5	0.0129	12.2	7130.0	0.0129	7,130	0.4
Jun-18-2014	8.3	16.5	0.0107	12.4	7380.0	0.0107	7,380	0.5
Jun-19-2014	10.2	20.2	0.0120	14.4	8350.0	0.0120	8,350	0.7
Jun-20-2014	9.2	18.2	0.0119	16.9	9480.0	0.0119	9,480	0.6
Jun-21-2014	12.9	25.6	0.0203	15.8	8670.0	0.0203	8,670	1.4
Jun-22-2014	19.0	37.7	0.0342	12.9	7630.0	0.0342	7,630	3.5
Jun-23-2014	11.7	23.2	0.0384	11.8	6990.0	0.0384	6,990	2.4
Jun-24-2014	12.4	24.6	0.0134	12.6	7400.0	0.0134	7,400	0.9
Jun-25-2014	10.4	20.7	0.0389	10.4	6110.0	0.0389	6,110	2.2
Jun-26-2014	9.7	19.2	0.0368	10.2	6180.0	0.0368	6,180	1.9
Jun-27-2014	9.7	19.2	0.0364	11.3	6730.0	0.0364	6,730	1.9
Jun-28-2014	14.1	28.0	0.0299	14.3	7850.0	0.0299	7,850	2.3
Jun-29-2014	11.5	22.9	0.0180	16.1	8630.0	0.0180	8,630	1.1
Jun-30-2014	7.4	14.6	0.0211	16.7	9080.0	0.0211	9,080	0.8
Jul-01-2014	5.9	11.8	0.0394	10.4	6160.0	0.0394	6,160	1.3
Jul-02-2014	6.1	12.1	0.0167	17.2	9300.0	0.0167	9,300	0.5
Jul-03-2014	8.3	16.5	0.0138	18.0	9460.0	0.0138	9,460	0.6
Jul-04-2014	6.3	12.4	0.0156	19.2	9830.0	0.0156	9,830	0.5
Jul-05-2014	5.2	10.3	0.0158	19.1	9940.0	0.0158	9,940	0.4
Jul-06-2014	4.4	8.8	0.0160	18.8	9720.0	0.0160	9,720	0.4
Jul-07-2014	5.2	10.3	0.0158	19.0	9870.0	0.0158	9,870	0.4
Jul-08-2014	5.5	10.9	0.0158	19.0	9810.0	0.0158	9,810	0.5
Jul-09-2014	5.0	9.8	0.0157	18.1	10000.0	0.0157	10,000	0.4
Jul-10-2014	5.5	11.0	0.0147	16.8	9360.0	0.0147	9,360	0.4
Jul-11-2014	5.6	11.0	0.0130	16.8	8990.0	0.0130	8,990	0.4
Jul-12-2014	5.5	11.0	0.0142	16.7	9000.0	0.0142	9,000	0.4
Jul-13-2014	6.1	12.0	0.0129	17.8	9510.0	0.0129	9,510	0.4
Jul-14-2014	5.6	11.1	0.0131	18.5	10000.0	0.0131	10,000	0.4
Jul-15-2014	5.4	10.7	0.0133	18.9	10100.0	0.0133	10,100	0.4
Jul-16-2014	5.5	10.9	0.0113	20.1	10300.0	0.0113	10,300	0.3
Jul-17-2014	5.5	10.9	0.0116	20.7	10700.0	0.0116	10,700	0.3
Jul-18-2014	5.5	11.0	0.0114	21.3	10500.0	0.0114	10,500	0.3
Jul-19-2014	5.6	11.0	0.0113	21.2	10500.0	0.0113	10,500	0.3
Jul-20-2014	5.5	11.0	0.0113	20.5	10400.0	0.0113	10,400	0.3
Jul-21-2014	5.5	10.9	0.0113	20.6	10600.0	0.0113	10,600	0.3
Jul-22-2014	5.5	10.9	0.0114	19.8	10100.0	0.0114	10,100	0.3
Jul-23-2014	5.6	11.1	0.0090	18.0	9230.0	0.0090	9,230	0.3
Jul-24-2014	6.8	13.6	0.0101	14.6	8030.0	0.0101	8,030	0.4
Jul-25-2014	7.6	15.1	0.0104	15.5	8270.0	0.0104	8,270	0.4
Jul-26-2014	6.0	11.9	0.0107	16.6	8800.0	0.0107	8,800	0.3
Jul-27-2014	5.5	11.0	0.0113	16.7	8970.0	0.0113	8,970	0.3
Jul-28-2014	5.3	10.5	0.0097	14.4	7810.0	0.0097	7,810	0.3
Jul-29-2014	5.0	9.8	0.0094	16.6	8920.0	0.0094	8,920	0.3
Jul-30-2014	5.1	10.0	0.0109	19.2	10200.0	0.0109	10,200	0.3
Jul-31-2014	4.7	9.4	0.0108	19.4	10000.0	0.0108	10,000	0.3
Aug-01-2014	3.9	7.8	0.0106	19.8	10300.0	0.0106	10,300	0.2
Aug-02-2014	3.4	6.7	0.0108	20.2	10500.0	0.0108	10,500	0.2
Aug-03-2014	2.6	5.1	0.0109	20.3	10500.0	0.0109	10,500	0.2
Aug-04-2014	1.5	3.0	0.0111	20.6	10600.0	0.0111	10,600	0.1
Aug-05-2014	0.8	1.6	0.0110	20.7	10700.0	0.0110	10,700	0.0
Aug-06-2014	0.8	1.6	0.0121	21.7	11400.0	0.0121	11,400	0.1
Aug-07-2014	1.3	2.5	0.0105	21.7	11300.0	0.0105	11,300	0.1
Aug-08-2014	1.8	3.5	0.0101	21.7	11300.0	0.0101	11,300	0.1
Aug-09-2014	1.5	2.9	0.0091	21.6	11300.0	0.0091	11,300	0.1
Aug-10-2014	0.8	1.6	0.0091	21.5	11200.0	0.0091	11,200	0.0
Aug-11-2014	0.4	0.9	0.0092	21.7	11200.0	0.0092	11,200	0.0
Aug-12-2014	0.2	0.3	0.0095	21.9	11300.0	0.0095	11,300	0.0
Aug-13-2014	0.1	0.2	0.0101	22.5	11000.0	0.0101	11,000	0.0
Aug-14-2014	0.1	0.3	0.0099	22.2	11400.0	0.0099	11,400	0.0
Aug-15-2014	0.1	0.1	0.0086	22.3	11700.0	0.0086	11,700	0.0
Aug-16-2014	0.0	0.0	0.0086	22.4	11600.0	0.0086	11,600	0.0
Aug-17-2014	0.0	0.0	0.0086	23.2	11500.0	0.0086	11,500	0.0
Aug-18-2014	0.0	0.0	0.0086	22.8	11500.0	0.0086	11,500	0.0
Aug-19-2014	0.0	0.0	0.0087	22.6	11700.0	0.0087	11,700	0.0
Aug-20-2014	0.0	0.0	0.0096	22.8	11900.0	0.0096	11,900	0.0
Aug-21-2014	0.0	0.0	0.0095	22.7	11800.0	0.0095	11,800	0.0
Aug-22-2014	0.0	0.0	0.0096	23.2	11700.0	0.0096	11,700	0.0
Aug-23-2014	0.0	0.0	0.0090	22.8	11800.0	0.0090	11,800	0.0
Aug-24-2014	0.0	0.0	0.0089	22.3	12000.0	0.0089	12,000	0.0
Aug-25-2014	0.0	0.0	0.0091	22.5	11800.0	0.0091	11,800	0.0
Aug-26-2014	0.0	0.0	0.0088	23.7	12000.0	0.0088	12,000	0.0
Aug-27-2014	0.0	0.0	0.0091	25.0	12500.0	0.0091	12,500	0.0
Aug-28-2014	0.0	0.0	0.0088	24.6	12400.0	0.0088	12,400	0.0
Aug-29-2014	0.0	0.0	0.0088	25.0	12600.0	0.0088	12,600	0.0
Aug-30-2014	0.1	0.2	0.0085	24.0	12500.0	0.0085	12,500	0.0
Aug-31-2014	1.4	2.9	0.0085	24.0	12600.0	0.0085	12,600	0.1
Sep-01-2014	2.9	5.8	0.0087	24.4	12800.0	0.0087	12,800	0.1
Sep-02-2014	3.2	6.4	0.0096	24.2	12800.0	0.0096	12,800	0.2
Sep-03-2014	1.6	3.1	0.0104	25.0	13000.0	0.0104	13,000	0.1
Sep-04-2014	1.0	2.0	0.0102	25.7	13500.0	0.0102	13,500	0.1

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B3)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	mg/L	microm	lbs
Sep-05-2014	0.6	1.2	0.0095	25.8	13300.0	0.0095	13,300	0.0
Sep-06-2014	0.4	0.7	0.0092	25.5	13200.0	0.0092	13,200	0.0
Sep-07-2014	0.3	0.5	0.0090	25.6	13200.0	0.0090	13,200	0.0
Sep-08-2014	0.2	0.4	0.0090	25.9	13300.0	0.0090	13,300	0.0
Sep-09-2014	0.1	0.3	0.0095	25.7	13300.0	0.0095	13,300	0.0
Sep-10-2014	0.2	0.4	0.0097	27.9	13800.0	0.0097	13,800	0.0
Sep-11-2014	0.2	0.4	0.0103	27.2	14100.0	0.0103	14,100	0.0
Sep-12-2014	0.2	0.3	0.0083	27.6	14000.0	0.0083	14,000	0.0
Sep-13-2014	0.2	0.3	0.0087	27.4	13900.0	0.0087	13,900	0.0
Sep-14-2014	0.2	0.4	0.0083	27.0	13900.0	0.0083	13,900	0.0
Sep-15-2014	0.1	0.2	0.0084	26.7	13900.0	0.0084	13,900	0.0
Sep-16-2014	0.1	0.3	0.0087	26.9	13800.0	0.0087	13,800	0.0
Sep-17-2014	0.2	0.3	0.0091	29.2	14100.0	0.0091	14,100	0.0
Sep-18-2014	0.1	0.2	0.0093	28.9	13800.0	0.0093	13,800	0.0
Sep-19-2014	0.1	0.2	0.0083	28.3	14100.0	0.0083	14,100	0.0
Sep-20-2014	0.1	0.2	0.0079	28.6	14000.0	0.0079	14,000	0.0
Sep-21-2014	0.1	0.2	0.0090	28.4	13900.0	0.0090	13,900	0.0
Sep-22-2014	0.1	0.2	0.0086	28.4	13800.0	0.0086	13,800	0.0
Sep-23-2014	0.1	0.2	0.0093	28.8	13900.0	0.0093	13,900	0.0
Sep-24-2014	0.2	0.4	0.0088	29.3	14100.0	0.0088	14,100	0.0
Sep-25-2014	0.2	0.4	0.0080	29.3	14200.0	0.0080	14,200	0.0
Sep-26-2014	0.2	0.4	0.0084	29.2	14000.0	0.0084	14,000	0.0
Sep-27-2014	0.1	0.3	0.0082	29.0	14000.0	0.0082	14,000	0.0
Sep-28-2014	0.1	0.2	0.0092	29.1	13900.0	0.0092	13,900	0.0
Sep-29-2014	0.0	0.1	0.0097	29.1	14000.0	0.0097	14,000	0.0
Sep-30-2014	0.1	0.2	0.0100	29.4	14200.0	0.0100	14,200	0.0
Oct-01-2014	0.0	0.0	0.0094	30.4	14600.0	0.0094	14,600	0.0
Oct-02-2014	0.0	0.1	0.0090	30.1	14700.0	0.0090	14,700	0.0
Oct-03-2014	0.0	0.0	0.0090	29.9	14500.0	0.0090	14,500	0.0
Oct-04-2014	0.1	0.1	0.0095	30.1	14400.0	0.0095	14,400	0.0
Oct-05-2014	0.1	0.2	0.0096	29.8	14400.0	0.0096	14,400	0.0
Oct-06-2014	0.2	0.3	0.0089	29.4	14100.0	0.0089	14,100	0.0
Oct-07-2014	0.2	0.3	0.0089	30.0	14600.0	0.0089	14,600	0.0
Oct-08-2014	0.1	0.1	0.0083	29.4	14700.0	0.0083	14,700	0.0
Oct-09-2014	0.0	0.1	0.0091	29.9	15000.0	0.0091	15,000	0.0
Oct-10-2014	0.0	0.1	0.0094	29.4	14500.0	0.0094	14,500	0.0
Oct-11-2014	0.1	0.2	0.0091	29.2	14700.0	0.0091	14,700	0.0
Oct-12-2014	0.0	0.1	0.0091	28.6	14400.0	0.0091	14,400	0.0
Oct-13-2014	0.1	0.2	0.0087	28.6	14600.0	0.0087	14,600	0.0
Oct-14-2014	0.0	0.1	0.0105	27.8	14400.0	0.0105	14,400	0.0
Oct-15-2014	0.1	0.1	0.0087	30.5	15000.0	0.0087	15,000	0.0
Oct-16-2014	0.1	0.2	0.0089	30.2	15000.0	0.0089	15,000	0.0
Oct-17-2014	0.2	0.4	0.0087	30.2	15000.0	0.0087	15,000	0.0
Oct-18-2014	0.3	0.5	0.0087	30.6	14900.0	0.0087	14,900	0.0
Oct-19-2014	0.4	0.8	0.0089	29.7	14600.0	0.0089	14,600	0.0
Oct-20-2014	0.5	0.9	0.0095	31.4	14300.0	0.0095	14,300	0.0
Oct-21-2014	1.2	2.3	0.0105	30.6	14800.0	0.0105	14,800	0.1
Oct-22-2014	1.4	2.8	0.0093	28.0	14300.0	0.0093	14,300	0.1
Oct-23-2014	1.7	3.3	0.0096	26.1	13300.0	0.0096	13,300	0.1
Oct-24-2014	1.9	3.7	0.0108	25.2	12700.0	0.0108	12,700	0.1
Oct-25-2014	2.1	4.2	0.0109	23.7	12300.0	0.0109	12,300	0.1
Oct-26-2014	1.7	3.4	0.0102	24.1	12700.0	0.0102	12,700	0.1
Oct-27-2014	1.8	3.6	0.0110	24.1	12600.0	0.0110	12,600	0.1
Oct-28-2014	1.8	3.7	0.0122	22.9	12200.0	0.0122	12,200	0.1
Oct-29-2014	1.9	3.8	0.0110	24.0	12500.0	0.0110	12,500	0.1
Oct-30-2014	2.4	4.7	0.0123	22.7	12000.0	0.0123	12,000	0.2
Oct-31-2014	3.2	6.4	0.0127	21.9	11700.0	0.0127	11,700	0.2
Nov-01-2014	5	10.7	0.0118	20.9	11100.0	0.0118	11,100	0.3
Nov-02-2014	27	53.5	0.0096	15.8	8820.0	0.0096	8,820	1.4
Nov-03-2014	43	85.9	0.0067	10.0	5760.0	0.0067	5,760	1.6
Nov-04-2014	30	59.1	0.0151	12.6	6700.0	0.0151	6,700	2.4
Nov-05-2014	22	42.6	0.0194	13.6	7460.0	0.0194	7,460	2.2
Nov-06-2014	17	33.3	0.0196	13.7	7470.0	0.0196	7,470	1.8
Nov-07-2014	15	30.4	0.0196	13.8	7460.0	0.0196	7,460	1.6
Nov-08-2014	13	25.4	0.0194	13.6	7400.0	0.0194	7,400	1.3
Nov-09-2014	6	12.9	0.0197	13.6	7420.0	0.0197	7,420	0.7
Nov-10-2014	5	10.9	0.0196	13.6	7420.0	0.0196	7,420	0.6
Nov-11-2014	5	10.3	0.0193	13.6	7420.0	0.0193	7,420	0.5
Nov-12-2014	5	10.2	0.0158	24.1	10700.0	0.0158	10,700	0.4
Nov-13-2014	6	11.1	0.0155	24.3	10800.0	0.0155	10,800	0.5
Nov-14-2014	6	11.1	0.0156	24.5	10800.0	0.0156	10,800	0.5
Nov-15-2014	6	11.0	0.0165	24.7	10800.0	0.0165	10,800	0.5
Nov-16-2014	5	10.9	0.0154	24.6	10700.0	0.0154	10,700	0.5
Nov-17-2014	6	10.9	0.0160	24.3	10800.0	0.0160	10,800	0.5
Nov-18-2014	6	10.9	0.0156	24.5	10900.0	0.0156	10,900	0.5
Nov-19-2014	6	11.0				0.0151	10,900	0.5
Nov-20-2014	5	10.9				0.0151	10,900	0.4
Nov-21-2014	5	10.9				0.0151	10,900	0.4
Nov-22-2014	5	10.8				0.0151	10,900	0.4
Nov-23-2014	7	14.1				0.0151	10,900	0.6
Nov-24-2014	7	13.7				0.0151	10,900	0.6
Nov-25-2014	6	11.6				0.0151	10,900	0.5
Nov-26-2014	6	11.5		24.4	10900.0	0.0151	10,900	0.5

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B3)	Daily Selenium	Daily Specific Conductance	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	acre-feet	mg/L	mg/L	microm	mg/L	microm	lbs
Nov-27-2014	6	11.2	0.0146	24.8	11000.0	0.0146	11,000	0.4
Nov-28-2014	6	11.3	0.0152	24.6	10900.0	0.0152	10,900	0.5
Nov-29-2014	8	15.2	0.0123	24.1	10700.0	0.0123	10,700	0.5
Nov-30-2014	9	18.2	0.0156	24.8	10900.0	0.0156	10,900	0.8
Dec-01-2014	11	22.7	0.0155	25.3	11200.0	0.0155	11,200	1.0
Dec-02-2014	22	42.7	0.0137	25.4	11400.0	0.0137	11,400	1.6
Dec-03-2014	35	69.3	0.0107	12.6	6240.0	0.0107	6,240	2.0
Dec-04-2014	62	123.2	0.0146	13.3	6680.0	0.0146	6,680	4.9
Dec-05-2014	69	136.6	0.0272	12.7	6840.0	0.0272	6,840	10.1
Dec-06-2014	40	79.8	0.0231	12.8	6880.0	0.0231	6,880	5.0
Dec-07-2014	14	28.6	0.0200	14.0	7040.0	0.0200	7,040	1.6
Dec-08-2014	11	21.6	0.0179	13.9	7130.0	0.0179	7,130	1.1
Dec-09-2014	9	16.9	0.0126	12.7	6490.0	0.0126	6,490	0.6
Dec-10-2014	7	13.5	0.0150	13.3	7210.0	0.0150	7,210	0.5
Dec-11-2014	9	18.7	0.0131	13.5	7240.0	0.0131	7,240	0.7
Dec-12-2014	42	83.7	0.0104	12.1	6750.0	0.0104	6,750	2.4
Dec-13-2014	88	174.4	0.0140	11.0	6400.0	0.0140	6,400	6.6
Dec-14-2014	101	201.1	0.0147	9.9	5780.0	0.0147	5,780	8.0
Dec-15-2014	101	199.8	0.0201	8.1	4560.0	0.0201	4,560	10.9
Dec-16-2014	82	162.8	0.0204	8.9	5170.0	0.0204	5,170	9.0
Dec-17-2014	66	130.1	0.0240	10.0	5740.0	0.0240	5,740	8.5
Dec-18-2014	78	154.6	0.0266	9.8	5970.0	0.0266	5,970	11.2
Dec-19-2014	85	169.2	0.0207	10.6	6350.0	0.0207	6,350	9.5
Dec-20-2014	69	137.5	0.0238	10.7	6230.0	0.0238	6,230	8.9
Dec-21-2014	56	111.0	0.0247	10.3	6190.0	0.0247	6,190	7.5
Dec-22-2014	49	97.5	0.0301	10.2	6320.0	0.0301	6,320	8.0
Dec-23-2014	46	91.8	0.0290	10.4	6430.0	0.0290	6,430	7.2
Dec-24-2014	45	88.6	0.0316	10.9	6630.0	0.0316	6,630	7.6
Dec-25-2014	46	90.6	0.0325	10.7	6600.0	0.0325	6,600	8.0
Dec-26-2014	52	103.0	0.0366	10.6	6690.0	0.0366	6,690	10.2
Dec-27-2014	44	87.7	0.0380	10.5	6700.0	0.0380	6,700	9.1
Dec-28-2014	38	74.6	0.0381	11.0	6810.0	0.0381	6,810	7.7
Dec-29-2014	24	48.2	0.0385	11.0	6740.0	0.0385	6,740	5.0
Dec-30-2014	16	31.5	0.0382	10.8	6670.0	0.0382	6,670	3.3
Dec-31-2014	14	27.8			6590.0	0.0375	6,590	2.8

Notes:

Table 2b. Monthly Averages and Totals

PARAMETER	Total Flow	Discharge	Average Selenium Concentration	Average Boron	Average Specific Conductance (*)	Average Daily Selenium	Average Daily Specific Conductance	Selenium Load	Selenium Load Objective (Critical Year)
DATA SOURCE	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	UA3
UNITS	acre-feet	acre-feet	mg/L	mg/L	microm	mg/L	microm	lbs	lbs
Jan-15	16	968	0.0153	8.9	5,230	0.0153	5,230	43	151
Feb-15	23	1,268	0.0269	10.9	6,008	0.0269	6,008	92	93
Mar-15	15	896	0.0223	10.9	6,001	0.0223	6,001	66	92
Apr-15	8	490	0.0148	11.7	6,825	0.0148	6,825	20	101
May-15	7	405	0.0177	11.4	6,802	0.0177	6,802	21	105
Jun-15	7	420	0.0197	13.8	7,965	0.0197	7,965	26	69
Jul-15	6	349	0.0135	18.0	9,496	0.0135	9,496	13	70
Aug-15	1	41	0.0095	22.4	11,535	0.0095	11,535	1	75
Sep-15	0	26	0.0090	27.5	13,727	0.0090	13,727	1	57
Oct-15	1	47	0.0097	28.0	13,984	0.0097	13,984	1	55
Nov-15	10	601	0.0156	20.7	9,688	0.0156	9,688	24	55
Dec-15	46	2,839	0.0236	12.2	6,764	0.0236	6,764	180	152
Calendar Year Totals/Avgs:		8,351	0.0165	16.4	8,669	0.0165	8,669	487	1,075

Notes:

Table 2c. Other water quality monitoring in the San Luis Drain (Station B3)

	Physicals							
PARAMETER	**Dissolved Oxygen**	**pH**	**Specific Conductance**	**Temperature**	**Turbidity**	**Total Selenium**	**Total Boron**	**Total Molybdenum**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**units**	**µS/cm**	**°C**	**NTU**	**ug/L**	**mg/L**	**ug/L**
Jan-03-2014	14.5	7.5	4,389	8.1	13.4	12		
Jan-09-2014	14.4	7.6	4,628	10.0	13.7	10		
Jan-14-2014	18.5	7.8	4,857	8.3	12.9	11		
Jan-23-2014	15.8	7.9	5,704	9.0	14.8	16		
Feb-07-2014	10.0	8.0	5,817	10.1	12.8	19		
Feb-14-2014	9.1	7.9	6,337	15.9	19.5	27		
Feb-21-2014	12.7	8.3	6,349	13.5	21.6	33		
Feb-27-2014	11.1	8.4	5,138	16.3	17.6	26		
Mar-06-2014	12.0	8.6	6,054	19.6	21.9	33	11	
Mar-14-2014	19.8	8.8	5,965	17.2	24.9	21	12	26
Mar-21-2014	12.9	8.4	5,953	16.9		17	12	
Mar-26-2014	12.7	8.8	5,946	20.0		15	12	
Apr-04-2014	14.7	8.5	6,484	18.9		13	13	
Apr-11-2014	10.5	8.5	6,380	23.8	17.0	19	12	21.0
Apr-18-2014	10.2	8.4	6,453	21.0	22.5	13	12	
Apr-30-2014	15.7	8.9	7,057	23.9	13.7	23	14	
May-08-2014	14.6	9.0	6,050	23.9	15.9	19	11	21.0
May-16-2014	15.0	8.9	6,367	23.0	27.3	14	12	
May-23-2014	17.7	9.2	6,717	24.8	19.2	11	13	
May-30-2014	29.3	9.2	8,601	28.3		14	18	
Jun-06-2014	16.8	8.9	8,251	25.5	26.6	19	16	
Jun-13-2014	12.7	9.3	8,259	26.4		13	15	
Jun-20-2014	10.5	8.9	9,467	25.0	28.4	11	18	
Jun-26-2014	9.8	8.7	5,922	25.1	14.6	35	10	20.0
Jul-02-2014		8.9	8,584	26.2	21.2	16	17	
Jul-11-2014	8.5	8.8	8,733	26.9	16.5	13	19	
Jul-18-2014	4.4	9.1	10,616	25.4	13.9	12	24	
Jul-25-2014	6.3	8.8	7,456	26.0	20.1	9	16	
Jul-31-2014	7.5	8.4	10,166	29.6		12	23	9.5
Aug-07-2014	7.2	8.4	10,584	28.0	9.8	10	24	
Aug-15-2014	9.2	7.8	11,242	24.5	14.5	10	27	
Aug-22-2014	9.4	8.2	12,000	26.8		9	28	
Sep-04-2014	9.6	8.3	12,971	23.9	21.1	9	30	6.2
Sep-19-2014	10.3	8.1	12,331	23.5	56.7	7	27	
Sep-26-2014	12.4	8.2	12,226	21.7	83.3	8	27	
Oct-03-2014	11.8	8.2	12,433	20.1		9	28	
Oct-10-2014	9.5	9.5	14,330	22.1	47.0	9	38	
Oct-17-2014		8.1	12,110	20.1	135.0	15	29	
Oct-24-2014	9.8	7.9	11,419	16.9	79.6	11	29	
Oct-31-2014	9.2	8.4	9,912	18.6	75.7	12	20	9.0
Nov-07-2014	19.0	8.5	7,080	15.6	19.2	21	14	
Nov-14-2014	17.2	8.3	11,278	16.2	16.6	15	30	
Nov-21-2014	12.1	8.3	10,848	13.2	16.6	10	32	
Nov-28-2014	12.8	8.2	6,823	12.1	10.0	12	14	
Dec-05-2014								
Dec-12-2014		7.9	6,821	13.2	18.6	11	15	
Dec-16-2014	8.0	7.7	5,144	11.3	52.5	20	11	13.0
Dec-23-2014		7.6	6,318	13.8	30.7	28	13	
Dec-30-2014	14.7	8.1	6,737	8.1	16.8	39	13	

Notes: blank cell = no sample collected

Table 2c. contd' Other water quality monitoring in the San Luis Drain (Station B3)

	Nutrients				
PARAMETER	**Nitrates as N (Dissolved)**	**Ammonia as N**	**Total Kjeldahl Nitrogen**	**Total Phosphorous as P**	**Ortho-phosphate as P**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Jan-09-2014	0.5	0.1	1.4	0.094 V	0.015 T
Feb-27-2014	3.7 T	0.17 L	1.7	0.095 T	<0.010
Mar-26-2014	<0.020	0.1	2.6	0.19 T	<0.010
May-08-2014	0.2	0.3	3.0	0.19 T	< 0.010
Jun-26-2014	4.8	1.1 U	3.5	0.2	< 0.05
Jul-31-2014	< 0.020	0.24 V	3.7	0.2	< 0.010
Sep-04-2014	< 0.050	0.1	3.9	0.13 T	< 0.010 T
Oct-31-2014	< 0.8	< 0.5	6.7 U	0.35 U	< 2.0
Dec-16-2014	6	0.5	2.5	0.2	0

Notes:

	General Minerals						
PARAMETER	**Calcium**	**Magnesium**	**Potassium**	**Sodium**	**Chloride (Dissolved)**	**Sulfate (Dissolved)**	**Total Organic Carbon**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Jan-09-2014	270	110.0	6.8	620.0	670.0	1400	
Feb-27-2014	220	100.0	4.0	880.0	750.0	1500	8.5

Notes:

	Total Metals								
PARAMETER	**Arsenic**	**Boron**	**Cadmium**	**Copper**	**Lead**	**Mercury**	**Molybdenum**	**Nickel**	**Zinc**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Jan-09-2014	5.5	9000	<1.0	41	<2.5	100	31	17	<5.0
Feb-27-2014	<10		<1.0	<50	<2.5	<100	24	23	<10

Notes:

Figure 2. Monthly selenium discharges from the terminus of the San Luis Drain into Mud Slough compared to load values.

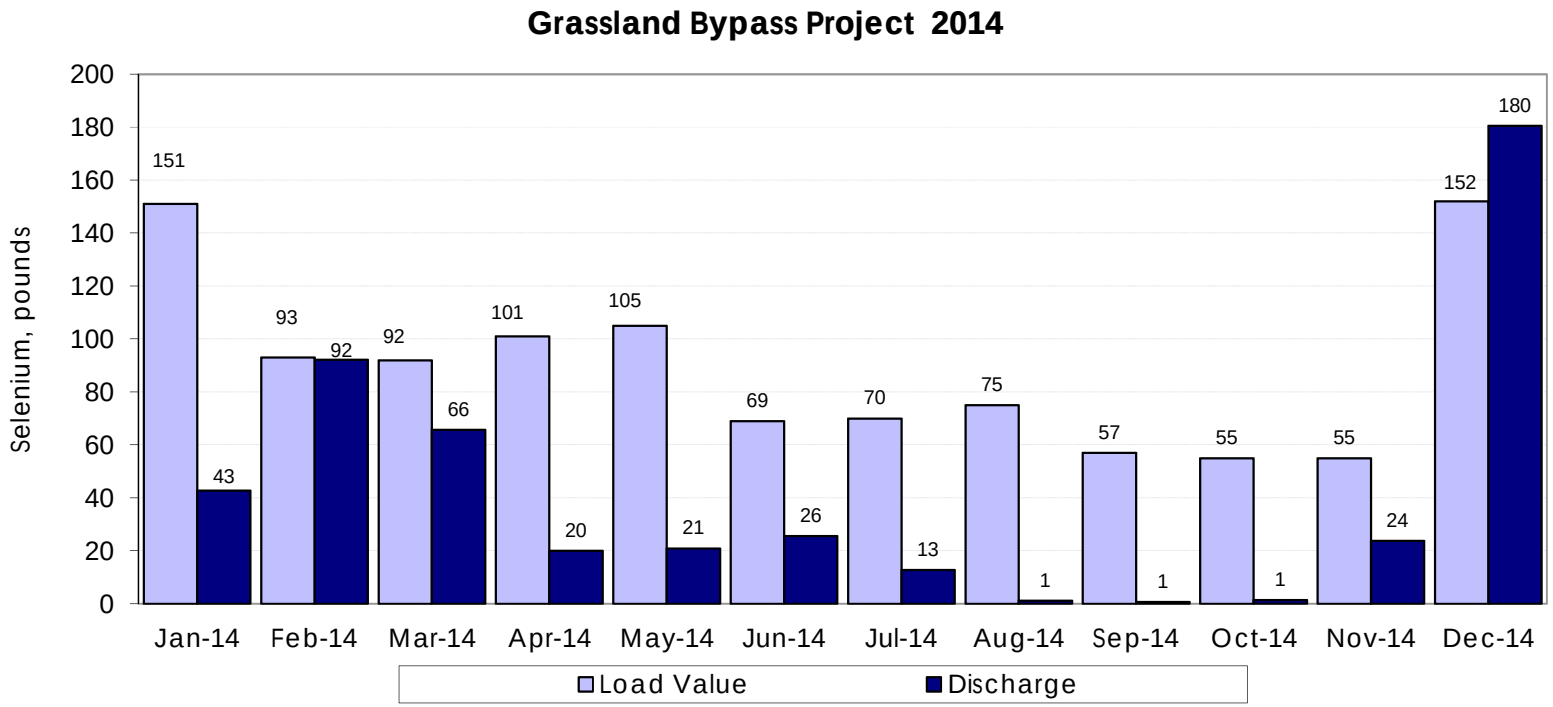


Table 3a. Water monitoring in Mud Slough (north) below San Luis Drain discharge (Station D)
USGS Station Code: 11262900

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jan-01-2014	52	9.4	2,800
Jan-02-2014	50	9.6	2,880
Jan-03-2014	45	9.9	3,010
Jan-04-2014	46	10.1	3,030
Jan-05-2014	46	9.9	2,940
Jan-06-2014	46	9.9	2,790
Jan-07-2014	54	10.4	2,530
Jan-08-2014	56	10.4	2,480
Jan-09-2014	55	10.9	2,640
Jan-10-2014	56	11.1	2,530
Jan-11-2014	52	10.9	2,680
Jan-12-2014	49	10.6	2,790
Jan-13-2014	54	10.1	2,830
Jan-14-2014	55	10.2	2,720
Jan-15-2014	55	10.3	2,920
Jan-16-2014	53	10.6	3,070
Jan-17-2014	50	10.7	3,010
Jan-18-2014	52	10.7	3,020
Jan-19-2014	56	10.6	3,140
Jan-20-2014	59	10.7	3,130
Jan-21-2014	60	10.6	3,040
Jan-22-2014	58	10.6	3,120
Jan-23-2014	56	10.8	3,330
Jan-24-2014	54	11.7	3,610
Jan-25-2014	54	12.0	3,780
Jan-26-2014	57	11.8	4,090
Jan-27-2014	60	11.8	4,040
Jan-28-2014	64	13.0	3,920
Jan-29-2014	61	14.4	3,880
Jan-30-2014	65	14.5	3,630
Jan-31-2014	66	13.5	3,450
Feb-01-2014	68	12.1	3,570
Feb-02-2014	72	10.4	3,250
Feb-03-2014	67	10.3	3,260
Feb-04-2014	70	10.8	3,700
Feb-05-2014	70	11.3	3,860

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Feb-06-2014	68	11.6	3,810
Feb-07-2014	75	11.3	3,650
Feb-08-2014	95	11.9	3,720
Feb-09-2014	114	13.0	3,630
Feb-10-2014	114	14.3	3,720
Feb-11-2014	98	14.8	3,420
Feb-12-2014	90	15.3	3,380
Feb-13-2014	83	15.8	3,410
Feb-14-2014	81	16.2	3,510
Feb-15-2014	80	15.5	3,690
Feb-16-2014	74	15.6	3,830
Feb-17-2014	73	14.7	3,960
Feb-18-2014	72	14.0	3,970
Feb-19-2014	84	14.3	4,090
Feb-20-2014	83	13.5	3,970
Feb-21-2014	71	13.7	3,580
Feb-22-2014	64	14.6	3,430
Feb-23-2014	62	15.2	3,230
Feb-24-2014	54	15.7	3,270
Feb-25-2014	51	16.3	3,350
Feb-26-2014	51	15.7	3,430
Feb-27-2014	62	15.4	3,340
Feb-28-2014	95	14.7	3,720
Mar-01-2014	131	14.5	4,110
Mar-02-2014	128	14.5	4,100
Mar-03-2014	113	14.0	3,680
Mar-04-2014	115	15.8	3,610
Mar-05-2014	120	17.1	3,630
Mar-06-2014	105	17.8	3,740
Mar-07-2014	95	16.6	3,480
Mar-08-2014	93	17.1	3,240
Mar-09-2014	91	17.9	3,150
Mar-10-2014	87	18.0	3,090
Mar-11-2014	86	15.7	3,030
Mar-12-2014	104	16.0	2,900
Mar-13-2014	123	16.5	2,760
Mar-14-2014	126	16.7	2,800

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Mar-15-2014	119	17.6	2,790
Mar-16-2014	114	18.6	2,890
Mar-17-2014	107	18.6	2,930
Mar-18-2014	93	16.4	2,950
Mar-19-2014	87	16.7	2,990
Mar-20-2014	84	18.1	2,900
Mar-21-2014	74	18.9	3,010
Mar-22-2014	65	18.8	3,100
Mar-23-2014	57	18.9	3,100
Mar-24-2014	48	19.2	3,230
Mar-25-2014	41	18.4	3,480
Mar-26-2014	40	17.3	3,500
Mar-27-2014	49	17.0	3,230
Mar-28-2014	58	18.1	2,970
Mar-29-2014	55	18.0	2,970
Mar-30-2014	55	17.2	3,340
Mar-31-2014	56	16.4	3,490
Apr-01-2014	58	14.5	3,330
Apr-02-2014	58	15.0	3,290
Apr-03-2014	53	16.2	3,300
Apr-04-2014	54	16.9	3,400
Apr-05-2014	57	16.9	3,520
Apr-06-2014	51	18.3	3,600
Apr-07-2014	45	20.4	3,520
Apr-08-2014	45	22.0	3,360
Apr-09-2014	40	22.8	3,340
Apr-10-2014	39	22.3	3,130
Apr-11-2014	39	21.8	3,230
Apr-12-2014	42	21.4	2,830
Apr-13-2014	41	20.8	3,070
Apr-14-2014	36	21.2	3,170
Apr-15-2014	31	22.1	3,280
Apr-16-2014	25	21.3	3,690
Apr-17-2014	23	21.7	3,990
Apr-18-2014	26	21.6	4,230
Apr-19-2014	23	21.4	4,380
Apr-20-2014	19	20.7	4,580

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Apr-21-2014	16	21.2	4,900
Apr-22-2014	15	20.7	4,590
Apr-23-2014	17	18.7	4,270
Apr-24-2014	17	19.5	4,590
Apr-25-2014	18	18.9	4,690
Apr-26-2014	20	18.7	4,880
Apr-27-2014	21	19.5	5,820
Apr-28-2014	20	19.6	6,270
Apr-29-2014	19	20.5	6,770
Apr-30-2014	22	22.8	6,910
May-01-2014	18	23.9	6,340
May-02-2014	15	23.3	5,860
May-03-2014	14	22.2	5,860
May-04-2014	13	21.7	6,090
May-05-2014	13	21.3	6,120
May-06-2014	13	20.6	6,000
May-07-2014	12	20.7	5,910
May-08-2014	10	20.9	5,980
May-09-2014	10	22.1	5,800
May-10-2014	8	20.0	6,160
May-11-2014	0	18.0	6,130
May-12-2014	9	19.4	6,090
May-13-2014	9	22.9	6,120
May-14-2014	9	23.1	6,000
May-15-2014	7	23.2	6,430
May-16-2014	0	22.7	6,810
May-17-2014	0	22.5	6,900
May-18-2014	0	21.9	6,840
May-19-2014	0	21.9	6,840
May-20-2014	0	20.9	6,640
May-21-2014	7	21.7	6,560
May-22-2014	8	23.2	6,570
May-23-2014	8	23.9	6,700
May-24-2014	7	24.5	6,790
May-25-2014	8	24.8	6,730
May-26-2014	7	24.9	6,930
May-27-2014	8	24.2	7,170

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
May-28-2014	8	22.3	7,430
May-29-2014	0	21.3	7,440
May-30-2014	0	22.4	7,440
May-31-2014	0	22.4	7,620
Jun-01-2014	0	23.5	8,010
Jun-02-2014	0	23.0	8,280
Jun-03-2014	0	22.9	8,420
Jun-04-2014	0	23.7	8,410
Jun-05-2014	0	25.0	8,590
Jun-06-2014	0	25.0	8,640
Jun-07-2014	0	25.6	8,710
Jun-08-2014	0	26.3	8,760
Jun-09-2014	0	27.0	8,820
Jun-10-2014	0	25.8	9,040
Jun-11-2014	0	25.6	9,150
Jun-12-2014	0	24.6	8,910
Jun-13-2014	0	23.9	8,710
Jun-14-2014	0	24.3	8,550
Jun-15-2014	0	24.3	8,430
Jun-16-2014	0	22.8	8,340
Jun-17-2014	0	22.5	8,040
Jun-18-2014	8	22.8	7,530
Jun-19-2014	9	23.3	7,120
Jun-20-2014	9	24.1	7,240
Jun-21-2014	11	24.4	8,340
Jun-22-2014	16	24.5	8,520
Jun-23-2014	10	25.0	7,440
Jun-24-2014	11	25.8	7,060
Jun-25-2014	10	26.0	6,540
Jun-26-2014	9	25.8	6,030
Jun-27-2014	9	26.0	5,730
Jun-28-2014	13	26.4	6,100
Jun-29-2014	11	26.2	7,000
Jun-30-2014	8	26.8	8,250
Jul-01-2014	7	27.4	8,610
Jul-02-2014	7	27.0	8,460
Jul-03-2014	10	27.0	8,350

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jul-04-2014	0	27.3	8,590
Jul-05-2014	0	26.4	8,930
Jul-06-2014	0	26.3	9,200
Jul-07-2014	0	25.0	9,290
Jul-08-2014	0	26.7	9,450
Jul-09-2014	0	27.0	9,580
Jul-10-2014	0	26.6	9,610
Jul-11-2014	7	27.1	9,540
Jul-12-2014	7	26.7	9,360
Jul-13-2014	9	27.0	8,940
Jul-14-2014	7	27.7	8,760
Jul-15-2014	0	27.5	8,870
Jul-16-2014	7	27.6	9,190
Jul-17-2014	7	27.4	9,600
Jul-18-2014	7	27.2	
Jul-19-2014	7	27.5	
Jul-20-2014	7	27.5	
Jul-21-2014	7	27.2	
Jul-22-2014	7	26.8	
Jul-23-2014	8	26.8	
Jul-24-2014	10	26.9	
Jul-25-2014	12	27.6	9,190
Jul-26-2014	10	27.7	7,970
Jul-27-2014	8	28.1	7,620
Jul-28-2014	0	27.1	7,680
Jul-29-2014	0	27.4	7,890
Jul-30-2014	0	27.6	8,210
Jul-31-2014	0	27.9	8,610
Aug-01-2014	1	27.8	8,890
Aug-02-2014	1	27.6	9,320
Aug-03-2014	1	26.2	8,500
Aug-04-2014	1	24.4	7,370
Aug-05-2014	1	25.4	7,090
Aug-06-2014	1	26.6	5,990
Aug-07-2014	1	27.6	6,140
Aug-08-2014	1	27.1	7,480
Aug-09-2014	1	27.1	7,450

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Aug-10-2014	1	26.1	6,420
Aug-11-2014	0	26.8	5,120
Aug-12-2014	0	26.7	4,410
Aug-13-2014	0	25.7	3,790
Aug-14-2014	0	26.5	3,720
Aug-15-2014	0	26.9	3,900
Aug-16-2014	0	26.8	4,290
Aug-17-2014	0	25.8	4,540
Aug-18-2014	0	25.6	4,620
Aug-19-2014	0	25.8	4,880
Aug-20-2014	0	25.8	5,190
Aug-21-2014	0	25.7	5,310
Aug-22-2014	0	24.7	5,520
Aug-23-2014	0	24.5	5,790
Aug-24-2014	0	25.0	6,020
Aug-25-2014	0	24.0	6,460
Aug-26-2014	0	24.3	6,870
Aug-27-2014	0	25.4	7,250
Aug-28-2014	0	25.5	7,590
Aug-29-2014	0	24.8	7,850
Aug-30-2014	0	24.9	8,110
Aug-31-2014	0	25.0	
Sep-01-2014	1	25.1	
Sep-02-2014	1	25.5	
Sep-03-2014	1	24.4	8,770
Sep-04-2014	1	25.0	6,730
Sep-05-2014	0	25.2	4,760
Sep-06-2014	0	25.4	3,350
Sep-07-2014	0	25.0	2,480
Sep-08-2014	0	24.8	1,800
Sep-09-2014	0	23.5	1,410
Sep-10-2014	0	24.0	1,360
Sep-11-2014	0	24.3	1,300
Sep-12-2014	1	24.7	1,140
Sep-13-2014	0	25.1	1,170
Sep-14-2014	0	25.6	1,320
Sep-15-2014	1	25.6	1,130

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Sep-16-2014	1	24.4	997
Sep-17-2014	1	24.4	1,250
Sep-18-2014	1	24.4	1,460
Sep-19-2014	1	24.4	1,400
Sep-20-2014	1	24.5	1,470
Sep-21-2014	1	24.3	1,390
Sep-22-2014	1	23.9	1,420
Sep-23-2014	2	24.1	1,350
Sep-24-2014	3	23.9	1,260
Sep-25-2014	2	21.8	1,280
Sep-26-2014	3	20.0	1,560
Sep-27-2014	3	20.8	1,220
Sep-28-2014	2	20.8	1,470
Sep-29-2014	2	21.0	1,670
Sep-30-2014	1	21.5	1,760
Oct-01-2014	1	20.2	1,710
Oct-02-2014	1	20.2	1,550
Oct-03-2014	2	20.8	1,560
Oct-04-2014	3	20.9	1,380
Oct-05-2014	3	21.1	1,610
Oct-06-2014	3	21.7	1,420
Oct-07-2014	4	21.7	1,310
Oct-08-2014	4	21.3	1,310
Oct-09-2014	4	20.7	1,450
Oct-10-2014	4	20.4	1,490
Oct-11-2014	4	20.5	1,480
Oct-12-2014	5	19.8	1,470
Oct-13-2014	5	19.1	1,530
Oct-14-2014	9	20.1	1,160
Oct-15-2014	5	19.6	1,380
Oct-16-2014	5	19.2	1,480
Oct-17-2014	5	18.7	1,730
Oct-18-2014	7	18.6	1,690
Oct-19-2014	7	19.3	1,540
Oct-20-2014	7	19.4	1,850
Oct-21-2014	9	18.0	2,410
Oct-22-2014	10	17.1	2,630

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Oct-23-2014	9	17.6	3,240
Oct-24-2014	8	18.0	3,990
Oct-25-2014	7	17.9	4,050
Oct-26-2014	7	16.9	3,660
Oct-27-2014	8	15.5	3,920
Oct-28-2014	12	15.7	3,140
Oct-29-2014	11	16.4	3,170
Oct-30-2014	8	16.5	3,870
Oct-31-2014	8	16.8	4,000
Nov-01-2014	12	16.5	5,010
Nov-02-2014	38	15.6	7,760
Nov-03-2014	70	15.6	5,640
Nov-04-2014	62	15.4	4,700
Nov-05-2014	47	15.7	5,440
Nov-06-2014	38	15.6	5,110
Nov-07-2014	38	16.1	4,690
Nov-08-2014	33	16.4	4,920
Nov-09-2014	20	16.5	4,880
Nov-10-2014	13	16.4	4,640
Nov-11-2014	11	16.0	4,370
Nov-12-2014	10	16.3	4,380
Nov-13-2014	11	16.6	5,240
Nov-14-2014	11	16.5	5,270
Nov-15-2014	12	15.7	4,820
Nov-16-2014	14	14.3	4,060
Nov-17-2014	14	13.0	4,230
Nov-18-2014	21	12.9	3,430
Nov-19-2014	19	13.4	3,700
Nov-20-2014	15	13.8	3,970
Nov-21-2014	14	13.7	3,880
Nov-22-2014	13	13.8	4,070
Nov-23-2014	16	13.1	4,880
Nov-24-2014	18	12.3	4,780
Nov-25-2014	17	12.0	4,300
Nov-26-2014	14	12.2	4,280
Nov-27-2014	13	12.3	4,060
Nov-28-2014	14	12.3	3,630

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Nov-29-2014	19	12.3	3,560
Nov-30-2014	22	12.5	3,330
Dec-01-2014	22	12.5	3,230
Dec-02-2014	37	12.7	3,380
Dec-03-2014	60	13.3	3,720
Dec-04-2014	94	14.5	5,010
Dec-05-2014	112	15.0	5,170
Dec-06-2014	92	15.5	4,380
Dec-07-2014	67	15.4	3,010
Dec-08-2014	56	15.0	2,810
Dec-09-2014	58	14.5	2,410
Dec-10-2014	75	13.9	2,030
Dec-11-2014	88	13.3	2,080
Dec-12-2014	174	13.0	2,750
Dec-13-2014	309	12.7	2,680
Dec-14-2014	431	11.9	2,440
Dec-15-2014	447	11.3	2,020
Dec-16-2014	427	11.4	2,100
Dec-17-2014	386	12.2	2,090
Dec-18-2014	372	12.7	2,410
Dec-19-2014	358	12.4	2,680
Dec-20-2014	328	12.7	2,500
Dec-21-2014	291	13.4	2,370
Dec-22-2014	269	13.8	2,380
Dec-23-2014	244	13.9	2,520
Dec-24-2014	214	13.5	2,700
Dec-25-2014	187	11.0	2,780
Dec-26-2014	169	9.2	2,870
Dec-27-2014	149	8.8	2,800
Dec-28-2014	125	9.1	2,870
Dec-29-2014	109	9.3	2,530
Dec-30-2014	104	8.9	2,330
Dec-31-2014	81	6.5	2,480

Notes:

Table 3b. Monthly Averages and Totals

PARAMETER	Total Flow	Temperature	Specific Conductance
DATA SOURCE	**Calculated**	**Calculated**	**Calculated**
UNITS	**acre-feet**	**°C**	**µS/cm**
Jan-14	3,360	11	3,124
Feb-14	4,250	14	3,598
Mar-14	5,390	17	3,232
Apr-14	1,960	20	4,131
May-14	440	22	6526
Jun-14	270	25	7957
Jul-14	300	27	8,813
Aug-14	20	26	6,196
Sep-14	60	24	2,060
Oct-14	360	19	2,199
Nov-14	1,330	14	4,568
Dec-14	11,770	12	2,824

Notes:

Table 3c. Other water quality monitoring in Mud Slough (north) below San Luis Drain discharge (Station D)

	Physicals							
PARAMETER	**Dissolved Oxygen**	**pH**	**Specific Conductance**	**Temperature**	**Turbidity**	**Total Selenium**	**Total Boron**	**Total Molybdenum**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**units**	**µS/cm**	**°C**	**NTU**	**ug/L**	**mg/L**	**ug/L**
Jan-03-2014	12.1	7.8	3,180	9.0	10.7	3.2		
Jan-09-2014	11.2	7.8	3,078	9.5	12.9	2.4	3.4 H	16
Jan-14-2014	15.2	7.8	3,176	8.2	10.7	2.7		
Jan-23-2014	12.4	7.8	3,460	9.2	16.1	4.4		
Feb-07-2014	8.7	7.9	3,711	10.7	22.3	5.4		16
Feb-14-2014	9.3	7.8	3,566	14.8	33.5	8.0		16
Feb-21-2014	9.8	8.0	3,681	13.4	26.8	7.9		15
Feb-27-2014	9.9	7.4	3,322	16.4	35.9	5.2		16
Mar-06-2014	9.1	8.0	3,860	18.5	33.5	9.6	4.9	
Mar-14-2014	10.2	8.1	2,939	17.3	42.1	2.4	3.3	11
Mar-21-2014	9.2	8.1	3,097	17.3		1.5	3.4	
Mar-26-2014	10.9	8.1	3,634	19.4		1.4	3.9	
Apr-04-2014	10.9	8.0	3,833	18.6		1.7	4.9	
Apr-11-2014	10.1	8.0	3,593	23.5	41.0	2.2	3.9	9
Apr-18-2014	7.7	8.1	4,358	21.5	50.3	3.2	5.4	
Apr-30-2014	16.3	8.6	7,043	24.5	28.4	19.9 U	13.0	
May-08-2014	16.4	8.5	6,039	22.6	22.5	14.3 U	8.2	24 U
May-16-2014	17.3	8.4	6,777	24.8	29.8	6.9	8.3	
May-23-2014	11.4	8.7	6,761	25.8	28.2	7.6	11.0	
May-30-2014	23.8	8.8	7,604	26.5		9.7	13.0	
Jun-06-2014	18.2	8.6	8,618	26.3	20.9	7.2	12.0	
Jun-13-2014	9.5	9.0	8,946	26.9		11.6	16.0	
Jun-20-2014	11.9	8.9	7,400	25.6	38.0	11.2	13.0	
Jun-26-2014	12.5	9.0	6,341	25.1	22.6	34.9 U	11.0	19
Jul-02-2014		9.0	8,741	27.9	29.8	16.9	17.0	
Jul-11-2014	6.7	8.5	9,711	30.5	13.8	12.7	20.0	
Jul-18-2014	5.2	8.7	10,016	26.9	9.2	9.9	21.0	
Jul-25-2014	7.9	9.0	9,213	27.4	14.6	10.2	20.0	
Jul-31-2014	7.4	8.7	9,001	29.2		9.8	19.0	11
Aug-07-2014	10.1	8.2	6,682	27.2	11.3	3.7	12.0	
Aug-15-2014	10.6	8.3	4,160	24.9	51.9	1.6	4.6	
Aug-22-2014	8.8	8.3	5,807	27.1		2.0	6.6	
Sep-04-2014	10.0	8.2	7,148	24.5	22.7	3.5	14.0	11
Sep-19-2014	10.0	8.6	1,415	28.7	9.7	0.7	1.9	
Sep-26-2014	13.3	8.1	1,586	21.8	12.9	0.7	1.9	
Oct-03-2014	11.7	8.2	1,645	21.6		< 0.4	1.6	
Oct-10-2014	10.9	8.0	1,601	21.5	13.1	0.5	1.4	
Oct-17-2014		7.9	1,749	20.6	9.8	0.5	1.6	
Oct-24-2014	10.1	7.8	3,995	17.4	16.3	1.5	6.6	
Oct-31-2014	8.5	7.9	4,009	17.5	20.6	2.2	6.2	22
Nov-07-2014	10.6	8.3	4,771	16.1	20.9	12.4	8.2	
Nov-14-2014	8.9	8.1	5,507	16.5	23.3	5.4	10.0	
Nov-21-2014	7.7	7.9	3,952	13.6	13.8	2.5	6.5	
Nov-28-2014	9.1	7.8	3,784	12.1	9.2	1.9	6.0	
Dec-05-2014								
Dec-12-2014		7.6	2,978	13.0	20.7	3.5	4.7	
Dec-16-2014	9.1	7.4	2,198	11.3	25.0	5.4	3.2	8
Dec-23-2014		7.5	2,656	13.6	15.0	6.5	4.0	
Dec-30-2014	9.6	7.6	2,317	8.8	15.2	3.7	2.6	

Notes:

Table 3c. cont'd Other water quality monitoring in Mud Slough (north) below San Luis Drain discharge (Station D)

	Nutrients				
PARAMETER	**Nitrates as N (dissolved)**	**Ammonia as N**	**Total Kjeldahl Nitrogen**	**Total phosphorous as P**	**Ortho-phosphate as P**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Jan-09-2014	0.23	0.18	<5.0	0.12 V	0.046 T
Feb-27-2014	0.96 T	0.23 L	1.5	0.33 T	0.0
Mar-26-2014	0.021	0.2	2.5	0.62 T, U	0.220
Apr-25-2014	NA	NA	NA	NA	NA
May-08-2014	0.310	0.3	2.5	0.28 T	<0.010
Jun-26-2014	4.8 U	0.76 U	3.5 U	0.2	<0.05
Jul-31-2014	<0.020	0.18V	3.5 L, U	0.1	<0.010
Sep-04-2015	<0.020	0.1	2.6	0.20 T	<0.010 T
Oct-31-2014	<0.4	<0.5	1.6	0.5	<1.0
Dec-16-2014	1.800	.53 u	2.5	0.4	.28 U

Notes:

	General Minerals						
PARAMETER	**Calcium**	**Magnesium**	**Potassium**	**Sodium**	**Chloride (dissolved)**	**Sulfate (dissolved)**	**Total Organic Carbon**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Jan-09-2014	120	76	6.5	400	470	650	
Feb-27-2014	110	75	6.0	480	480	670	11

Notes:

	Total Metals						
PARAMETER	**Arsenic**	**Cadmium**	**Copper**	**Lead**	**Mercury**	**Nickel**	**Zinc**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Jan-09-2014	5.3	<1.0	29L	<2.5	110	10	<5.0
Feb-27-2014	<5.0	<1.0	<50	<2.5	<100	16.0	<10

Notes:

Table 4. Water quality monitoring in Mud Slough (north) above the San Luis Drain discharge (Station C)

	Physicals						
PARAMETER	**Dissolved Oxygen**	**Specific Conductance**	**Turbidity**	**pH**	**Boron**	**Total Selenium**	**Molybdenum**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**µS/cm**	**NTU**	**units**	**mg/L**	**µg/L**	**ug/L**
Jan-14-2014	10.2 *	2,481	7.6*				
Feb-10-2014	5.24*	2,869	65*		2.0*	0.26*	
Mar-06-2014	9.1	2,804	34	8.0	2.2	0.2	
Mar-14-2014	10.2	2,663	42	8.1	2.5	0.5	9.9
Mar-21-2014	9.2	2,667		8.1	2.5	0.5	
Mar-26-2014	10.9	3,094		8.1	2.7	0.2	
Apr-04-2014	11.6	3,156		8.1	2.9	< 0.4	
Apr-11-2014	10.0	2,850	52	7.9	2.3	< 0.4	7.5
Apr-18-2014	8.4	3,089	59	8.1	2.7	< 0.4	
Apr-30-2014	18.7	4,144	30	8.2	3.9	0.5	
May-08-2014							
May-16-2014							
May-23-2014							
May-30-2014	26.0	5,527		8.3	4.7 U	<0.4	
Jun-06-2014							
Jun-13-2014							
Jun-20-2014	15.9	6,814	5	8.4	1.2	<0.4	
Jun-26-2014							
Jul-02-2014							
Jul-11-2014							
Jul-18-2014							
Jul-25-2014							
Jul-31-2014							
Aug-07-2014							
Aug-15-2014							
Aug-22-2014							
Sep-04-2014							
Sep-19-2014							
Sep-26-2014							
Oct-03-2014							
Oct-10-2014	12.3	1,361	11	7.9	0.9	0.4	
Oct-17-2014	NA	1,674	37	7.9	1.1	< 0.4	
Oct-24-2014							
Oct-31-2014	9.8	2,131	11	7.9	1.6	< 0.4	25U
Nov-07-2014	8.2	1,746	20	7.9	1.2	0.4	
Nov-14-2014							
Nov-21-2014	10.7	2,151	10	7.6	1.4	< 0.4	
Nov-28-2014	62.0	1,118	12	7.4	1.6	0.4	
Dec-05-2014							
Dec-12-2014							
Dec-16-2014	6.2	1,118	12	7.4	0.9	0.54	6.00
Dec-23-2014		1,507	6	7.5	1.4	0.67	
Dec-30-2014	9.9	1,745	12	8.0	1.6	0.67	

Notes:

* Results from Westside San Joaquin River Watershed Coalition

	Nutrients				
PARAMETER	**Nitrates as N (Dissolved)**	**Total ammonia**	**Total Kjeldahl Nitrogen**	**Total phosphorous**	**Ortho-phosphate as P**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Jan-09-2014					
Feb-27-2014					
Mar-26-2014	0.02	0.096	2.6U	0.69 T, U	0.35
Apr-25-2014					
May-08-2014					
Jun-26-2014					
Jul-31-2014					
Sep-04-2015					
Oct-31-2014	<0.4	<0.5	1.60	0.56	<1.0
Dec-16-2014	0.47	.64 U	2.20	0.50	0.35

Table 6a. Water monitoring in Salt Slough at Highway 165 (Station F)
USGS Station Code: 11261100

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jan-01-2014	92	9.4	1,680
Jan-02-2014	95	9.4	1,650
Jan-03-2014	93	9.5	1,630
Jan-04-2014	92	9.8	1,660
Jan-05-2014	90	9.6	1,670
Jan-06-2014	90	9.5	1,670
Jan-07-2014	82	10.2	1,680
Jan-08-2014	83	10.3	1,710
Jan-09-2014	83	10.9	1,720
Jan-10-2014	88	11.0	1,610
Jan-11-2014	82	10.7	1,670
Jan-12-2014	85	10.3	1,660
Jan-13-2014	84	9.9	1,680
Jan-14-2014	75	10.0	1,720
Jan-15-2014	79	10.3	1,750
Jan-16-2014	71	10.5	1,800
Jan-17-2014	76	10.6	1,800
Jan-18-2014	63	10.7	1,850
Jan-19-2014	65	10.6	1,850
Jan-20-2014	67	10.7	1,830
Jan-21-2014	73	10.4	1,880
Jan-22-2014	69	10.5	1,880
Jan-23-2014	78	10.7	1,850
Jan-24-2014	64	11.5	1,810
Jan-25-2014	61	12.1	1,880
Jan-26-2014	56	12.0	1,910
Jan-27-2014	69	12.0	1,870
Jan-28-2014	79	12.9	1,820
Jan-29-2014	80	14.6	1,800
Jan-30-2014	83	14.8	1,750
Jan-31-2014	82	13.5	1,720

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Feb-01-2014	71	11.8	1,730
Feb-02-2014	64	10.2	1,810
Feb-03-2014	66	10.5	1,790
Feb-04-2014	66	11.1	1,810
Feb-05-2014	54	11.8	1,970
Feb-06-2014	59	12.1	1,860
Feb-07-2014	69	11.6	1,790
Feb-08-2014	85	12.2	1,700
Feb-09-2014	79	13.6	1,840
Feb-10-2014	86	15.1	1,820
Feb-11-2014	74	15.2	1,840
Feb-12-2014	71	15.2	1,900
Feb-13-2014	62	15.8	2,020
Feb-14-2014	66	16.2	2,110
Feb-15-2014	65	15.1	2,100
Feb-16-2014	69	15.4	2,080
Feb-17-2014	68	14.5	2,070
Feb-18-2014	67	13.7	2,020
Feb-19-2014	65	14.1	1,990
Feb-20-2014	58	13.4	2,030
Feb-21-2014	64	13.8	2,080
Feb-22-2014	58	14.9	2,110
Feb-23-2014	71	15.3	2,090
Feb-24-2014	64	15.8	2,120
Feb-25-2014	73	16.2	2,110
Feb-26-2014	64	15.6	2,020
Feb-27-2014	75	15.5	2,100
Feb-28-2014	85	14.7	2,020
Mar-01-2014	107	14.6	1,910
Mar-02-2014	112	14.4	1,900
Mar-03-2014	84	14.5	2,140
Mar-04-2014	82	16.3	2,230
Mar-05-2014	80	17.4	2,260

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Mar-06-2014	71	18.1	2,210
Mar-07-2014	79	16.6	2,120
Mar-08-2014	66	17.0	2,140
Mar-09-2014	66	17.8	2,200
Mar-10-2014	71	17.6	2,120
Mar-11-2014	63	15.5	2,130
Mar-12-2014	66	16.2	2,160
Mar-13-2014	68	16.4	2,180
Mar-14-2014	71	16.6	2,140
Mar-15-2014	75	17.4	2,160
Mar-16-2014	59	18.6	2,280
Mar-17-2014	74	18.2	2,190
Mar-18-2014	68	16.2	2,120
Mar-19-2014	66	16.9	2,180
Mar-20-2014	57	18.3	2,220
Mar-21-2014	62	19.1	2,240
Mar-22-2014	66	18.5	2,360
Mar-23-2014	60	18.6	2,380
Mar-24-2014	63	19.0	2,310
Mar-25-2014	66	18.5	2,190
Mar-26-2014	69	17.2	2,180
Mar-27-2014	69	16.3	2,270
Mar-28-2014	81	17.9	2,240
Mar-29-2014	88	17.9	2,060
Mar-30-2014	99	17.3	1,990
Mar-31-2014	112	16.6	1,950
Apr-01-2014	109	15.0	1,910
Apr-02-2014	105	14.9	1,910
Apr-03-2014	109	15.8	1,880
Apr-04-2014	112	16.8	1,760
Apr-05-2014	108	16.4	1,780
Apr-06-2014	113	17.5	1,770
Apr-07-2014	119	19.4	1,730

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Apr-08-2014	158	21.2	1,720
Apr-09-2014	163	22.4	1,630
Apr-10-2014	157	22.2	1,720
Apr-11-2014	142	21.8	1,720
Apr-12-2014	113	21.0	1,900
Apr-13-2014	94	20.5	2,060
Apr-14-2014	86	20.8	2,050
Apr-15-2014	84	22.0	1,920
Apr-16-2014	78	21.9	1,940
Apr-17-2014	75	21.5	1,900
Apr-18-2014	76	21.8	1,790
Apr-19-2014	75	21.5	1,650
Apr-20-2014	77	20.9	1,740
Apr-21-2014	80	21.5	1,500
Apr-22-2014	69	20.8	1,630
Apr-23-2014	55	19.4	1,940
Apr-24-2014	51	19.2	2,100
Apr-25-2014	49	19.1	2,050
Apr-26-2014	58	17.9	1,960
Apr-27-2014	62	18.4	1,730
Apr-28-2014	59	19.6	1,780
Apr-29-2014	64	19.9	1,740
Apr-30-2014	62	22.5	1,630
May-01-2014	60	24.8	1,630
May-02-2014	54	24.5	1,640
May-03-2014	52	22.8	1,630
May-04-2014	53	21.5	1,670
May-05-2014	52	20.9	1,600
May-06-2014	51	19.9	1,650
May-07-2014	50	20.1	1,670
May-08-2014	47	20.3	1,710
May-09-2014	47	21.4	1,680
May-10-2014	51	20.3	1,610

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
May-11-2014	46	18.4	1,610
May-12-2014	47	19.9	1,720
May-13-2014	43	22.5	1,740
May-14-2014	40	25.0	1,730
May-15-2014	42	25.2	1,900
May-16-2014	40	24.5	1,700
May-17-2014	43	24.0	1,670
May-18-2014	38	23.3	1,600
May-19-2014	41	22.5	1,660
May-20-2014	39	21.4	1,560
May-21-2014	43	21.5	1,670
May-22-2014	43	23.8	1,710
May-23-2014	40	25.1	1,730
May-24-2014	39	25.1	1,800
May-25-2014	40	25.1	1,750
May-26-2014	48	25.6	1,770
May-27-2014	52	24.7	1,290
May-28-2014	42	21.9	1,410
May-29-2014	39	20.4	1,480
May-30-2014	45	23.4	1,500
May-31-2014	51	23.2	1,250
Jun-01-2014	37	24.2	1,320
Jun-02-2014	33	24.4	1,460
Jun-03-2014	31	22.5	1,590
Jun-04-2014	23	24.6	1,740
Jun-05-2014	21	26.0	1,740
Jun-06-2014	27	26.3	1,720
Jun-07-2014	25	26.6	1,520
Jun-08-2014	22	27.2	1,580
Jun-09-2014	32	28.0	1,580
Jun-10-2014	42	27.2	1,250
Jun-11-2014	40	25.4	1,180
Jun-12-2014	41	25.2	1,290

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jun-13-2014	32	24.2	1,400
Jun-14-2014	29	24.1	1,400
Jun-15-2014	29	23.5	1,340
Jun-16-2014	39	21.8	1,260
Jun-17-2014	36	21.3	1,200
Jun-18-2014	35	22.0	1,180
Jun-19-2014	36	24.0	1,230
Jun-20-2014	32	25.1	1,360
Jun-21-2014	34	24.9	1,340
Jun-22-2014	30	23.5	1,270
Jun-23-2014	29	25.1	1,340
Jun-24-2014	33	26.5	1,240
Jun-25-2014	29	25.8	1,230
Jun-26-2014	26	25.0	1,310
Jun-27-2014	33	25.2	1,290
Jun-28-2014	32	26.0	1,240
Jun-29-2014	35	26.4	1,190
Jun-30-2014	33	27.3	1,120
Jul-01-2014	37	28.3	1,020
Jul-02-2014	29	27.6	1,010
Jul-03-2014	30	27.4	1,040
Jul-04-2014	34	27.9	1,050
Jul-05-2014	32	27.2	998
Jul-06-2014	28	26.5	1,020
Jul-07-2014	28	25.6	1,040
Jul-08-2014	23	27.2	1,080
Jul-09-2014	25	27.6	955
Jul-10-2014	21	27.5	1,020
Jul-11-2014	17	26.6	1,060
Jul-12-2014	18	26.3	1,200
Jul-13-2014	20	26.8	1,270
Jul-14-2014	28	27.6	1,040
Jul-15-2014	33	27.0	1,030

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jul-16-2014	26	27.4	965
Jul-17-2014	19	26.6	1,040
Jul-18-2014	26	26.0	1,090
Jul-19-2014	25	27.1	996
Jul-20-2014	35	27.8	1,050
Jul-21-2014	43	26.7	1,060
Jul-22-2014	35	27.2	947
Jul-23-2014	31	26.4	1,040
Jul-24-2014	30	26.5	1,140
Jul-25-2014	31	27.1	1,180
Jul-26-2014	36	28.2	1,160
Jul-27-2014	30	28.8	1,110
Jul-28-2014	37	26.6	1,010
Jul-29-2014	31	26.2	945
Jul-30-2014	29	28.3	988
Jul-31-2014	37	29.5	1,010
Aug-01-2014	38	28.5	1,020
Aug-02-2014	39	27.6	984
Aug-03-2014	35	27.1	949
Aug-04-2014	33	24.2	896
Aug-05-2014	33	23.9	923
Aug-06-2014	29	25.5	935
Aug-07-2014	18	27.2	939
Aug-08-2014	26	27.7	961
Aug-09-2014	21	27.3	957
Aug-10-2014	17	26.6	930
Aug-11-2014	18	26.1	930
Aug-12-2014	16	26.8	961
Aug-13-2014	22	26.0	984
Aug-14-2014	19	26.0	1,000
Aug-15-2014	16	27.0	982
Aug-16-2014	19	27.1	985
Aug-17-2014	25	26.8	984

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Aug-18-2014	24	26.0	897
Aug-19-2014	27	25.8	881
Aug-20-2014	30	24.9	858
Aug-21-2014	39	25.4	865
Aug-22-2014	34	25.6	821
Aug-23-2014	35	24.6	920
Aug-24-2014	39	25.4	900
Aug-25-2014	46	24.9	926
Aug-26-2014	52	24.3	845
Aug-27-2014	47	25.4	731
Aug-28-2014	39	26.4	879
Aug-29-2014	37	26.2	946
Aug-30-2014	35	25.8	899
Aug-31-2014	40	25.5	914
Sep-01-2014	46	25.6	778
Sep-02-2014	45	26.0	736
Sep-03-2014	36	25.0	709
Sep-04-2014	30	24.7	823
Sep-05-2014	24	25.1	926
Sep-06-2014	23	25.3	1,070
Sep-07-2014	23	25.1	1,130
Sep-08-2014	24	24.6	1,210
Sep-09-2014	26	23.7	1,200
Sep-10-2014	26	23.7	1,100
Sep-11-2014	30	24.4	1,150
Sep-12-2014	24	24.7	1,050
Sep-13-2014	25	25.0	1,160
Sep-14-2014	26	25.6	1,110
Sep-15-2014	28	25.8	1,070
Sep-16-2014	31	24.5	1,080
Sep-17-2014	22	24.4	1,080
Sep-18-2014	20	23.8	1,130

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Sep-19-2014	22	24.2	1,220
Sep-20-2014	23	24.7	1,150
Sep-21-2014	24	24.3	1,160
Sep-22-2014	29	23.9	1,110
Sep-23-2014	36	23.9	1,160
Sep-24-2014	31	24.2	1,160
Sep-25-2014	25	21.5	1,140
Sep-26-2014	24	20.1	1,190
Sep-27-2014	26	20.0	1,290
Sep-28-2014	25	20.7	1,340
Sep-29-2014	23	20.6	1,250
Sep-30-2014	21	21.7	1,290
Oct-01-2014	18	20.6	1,340
Oct-02-2014	21	19.9	1,370
Oct-03-2014	20	21.4	1,400
Oct-04-2014	20	21.7	1,430
Oct-05-2014	21	21.8	1,400
Oct-06-2014	20	22.2	1,320
Oct-07-2014	19	22.4	1,330
Oct-08-2014	19	21.6	1,380
Oct-09-2014	18	21.0	1,420
Oct-10-2014	17	21.0	1,460
Oct-11-2014	16	20.9	1,560
Oct-12-2014	13	20.1	1,680
Oct-13-2014	14	19.1	1,710
Oct-14-2014	17	20.1	1,750
Oct-15-2014	17	19.4	1,660
Oct-16-2014	21	18.9	1,670
Oct-17-2014	20	19.3	1,610
Oct-18-2014	19	19.1	1,550
Oct-19-2014	17	19.3	1,610
Oct-20-2014	19	19.7	1,620
Oct-21-2014	19	17.8	1,580

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Oct-22-2014	18	16.7	1,720
Oct-23-2014	17	17.7	1,740
Oct-24-2014	14	18.0	1,780
Oct-25-2014	21	17.8	1,840
Oct-26-2014	22	16.4	1,850
Oct-27-2014	22	15.3	1,780
Oct-28-2014	22	15.3	1,740
Oct-29-2014	26	16.1	1,740
Oct-30-2014	27	16.7	1,710
Oct-31-2014	27	16.6	1,720
Nov-01-2014	34	16.0	1,670
Nov-02-2014	40	15.1	1,680
Nov-03-2014	49	14.5	1,570
Nov-04-2014	50	14.4	1,550
Nov-05-2014	45	14.7	1,500
Nov-06-2014	39	15.1	1,530
Nov-07-2014	35	15.6	1,600
Nov-08-2014	45	16.2	1,650
Nov-09-2014	46	16.4	1,630
Nov-10-2014	44	16.4	1,590
Nov-11-2014	46	15.8	1,620
Nov-12-2014	51	15.8	1,570
Nov-13-2014	55	16.1	1,520
Nov-14-2014	57	16.0	1,520
Nov-15-2014	57	15.5	1,530
Nov-16-2014	55	13.7	1,490
Nov-17-2014	53	12.9	1,490
Nov-18-2014	51	12.7	1,510
Nov-19-2014	52	12.8	1,520
Nov-20-2014	48	13.3	1,610
Nov-21-2014	45	13.0	1,640
Nov-22-2014	48	13.3	1,650
Nov-23-2014	49	12.8	1,690

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Nov-24-2014	56	12.1	1,560
Nov-25-2014	69	11.8	1,510
Nov-26-2014	80	11.7	1,380
Nov-27-2014	81	11.9	1,430
Nov-28-2014	82	12.0	1,440
Nov-29-2014	77	11.8	1,420
Nov-30-2014	68	12.1	1,570
Dec-01-2014	66	12.1	1,580
Dec-02-2014	67	12.3	1,550
Dec-03-2014	78	13.4	1,620
Dec-04-2014	84	14.7	1,530
Dec-05-2014	74	14.9	1,630
Dec-06-2014	66	15.3	1,630
Dec-07-2014	59	14.8	1,690
Dec-08-2014	62	14.4	1,700
Dec-09-2014	63	14.0	1,690
Dec-10-2014	62	13.6	1,700
Dec-11-2014	66	13.2	1,660
Dec-12-2014	96	13.0	1,730
Dec-13-2014	119	12.8	1,750
Dec-14-2014	157	11.8	1,490
Dec-15-2014	197	11.1	1,410
Dec-16-2014	215	11.3	1,600
Dec-17-2014	219	12.1	1,620
Dec-18-2014	203	12.4	1,610
Dec-19-2014	174	12.1	1,690
Dec-20-2014	147	12.6	1,800
Dec-21-2014	128	13.4	1,820
Dec-22-2014	120	13.6	1,820
Dec-23-2014	114	13.7	1,880
Dec-24-2014	112	13.0	1,780
Dec-25-2014	99	10.5	1,870
Dec-26-2014	92	9.4	1,880

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-27-2014	85	9.3	1,890
Dec-28-2014	78	9.4	1,900
Dec-29-2014	73	9.7	1,910
Dec-30-2014	71	9.2	1,880
Dec-31-2014	70	6.7	1,960

Notes:

Table 6b. Monthly Averages and Totals

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm
January	4,820	10.9	1,757
February	3,800	13.9	1,962
March	4,600	17.1	2,166
April	5,480	19.8	1,818
May	2,810	22.7	1,637
June	1,900	25.0	1,364
July	1,790	27.2	1,050
August	1,880	26.1	923
September	1,620	23.9	1,099
October	1,190	19.2	1,596
November	3,190	14.1	1,555
December	6,580	12.3	1,718

Table 6c. Water quality monitoring in Salt Slough at Highway 165 (Station F)

	Physicals							
PARAMETER	**Dissolved Oxygen**	**pH**	**Specific Conductance**	**Temperature**	**Turbidity**	**Total Selenium**	**Boron**	**Total Molybdenum**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**units**	**µS/cm**	**°C**	**NTU**	**ug/L**	**mg/L**	**ug/L**
Jan-03-2014	11.4	7.1	1,661	7.9	22.1	<0.4		
Jan-09-2014	10.8	6.9	1,694	10.4	25.0	<0.4	0.96	
Jan-14-2014	14.4	6.6	1,707	7.6	17.2	<0.4		
Jan-23-2014	12.8	7.3	1,772	8.9	21.8	<0.4		
Feb-07-2014	8.4	7.3	1,937	10.5	23.3	<0.4		10
Feb-14-2014	8.7	8.0	2,137	15.1	41.4	<0.4		13
Feb-21-2014	9.8	7.7	1,377	12.2	35.7	<0.4		13
Feb-27-2014	9.9	7.7	2,070	15.3	47.5	<0.4		12
Mar-06-2014	8.5	7.6	2,159	18.5	68.9	<0.4	0.9	
Mar-14-2014	9.3	7.6	2,145	16.5	72.2	<0.4	1.2	10
Mar-21-2014	10.1	6.8	2,177	16.6		<0.4	1.1	
Mar-26-2014	10.2	7.6	2174	19.2		<0.4	1.0	
Apr-04-2014	10.1	7.7	1784	16.2		<0.4	0.9	
Apr-11-2014	8.4	7.7	1886	21.8	82.0	0.4	1.1	8
Apr-18-2014	8.6	7.5	1881	19.6	82.4	0.6	0.9	
Apr-30-2014	11.5	7.6	1808	22.9	37.1	< 0.4	0.8	
May-08-2014	12.1	7.8	1925	11.0	25.3	< 0.4	0.8	12
May-16-2014	10.9	7.1	1808	22.5	31.6	< 0.4	0.7	
May-23-2014	11.0	8.3	1770	27.2	23.8	< 0.4	0.7	
May-30-2014	10.8	7.6	1581	24.9		< 0.4	0.6	
Jun-06-2014								
Jun-13-2014	9.8	7.4	1490	24.5		< 0.4	0.6	
Jun-20-2014	10.3	7.4	1422	24.0	53.7	< 0.4	0.6	
Jun-26-2014	9.7	7.9	1301	23.6	51.9	0.4	0.4	10
Jul-02-2014		7.4	1502	25.4	78.9	< 0.4	0.3	
Jul-11-2014	7.2	8.1	1081	27.1	74.2	< 0.4	0.4	
Jul-18-2014	9.0	7.6	1114	23.6	68.0	< 0.4	0.4	
Jul-25-2014	7.6	7.6	1056	25.6	74.6	0.4	0.5	
Jul-31-2014	7.3	8.3	1069	29.0		< 0.4	0.4	7
Aug-07-2014	8.2	7.6	941	25.9	78.2	< 0.4	0.4	
Aug-15-2014	10.4	8.7	976	25.0	61.0	< 0.4	0.4	
Aug-22-2014	10.3	7.6	868	25.5		< 0.4	0.3	
Sep-04-2014	9.8	7.4	858	24.2	71.0	< 0.4	0.4	5
Sep-19-2014	11.5	7.8	1214	24.0	40.4	< 0.4	0.6	
Sep-26-2014	13.5	8.1	1412	22.1	22.2	< 0.4	0.8	
Oct-10-2014	12.7	7.5	1487	19.9	17.7	< 0.4	0.8	
Oct-17-2014		7.4	1678	19.7	24.2	< 0.4	0.9	
Oct-24-2014	9.6	7.1	1893	15.9	27.2	< 0.4	1.0	
Oct-31-2014	9.5	7.8	1831	17.4	20.8	< 0.4	1.0	12
Nov-07-2014	9.3	7.1	1719	18.3	25.5	< 0.4	0.9	
Nov-14-2014	10.1	7.6	1593	17.4	26.1	< 0.4	0.8	
Nov-21-2014	10.0	7.7	1649	16.0	19.1	< 0.4	0.9	
Nov-28-2014	10.3	7.6	1456	14.2	25.6	< 0.4	0.7	
Dec-05-2014	10.9	7.7	1655	14.6	38.2	< 0.4	0.8	
Dec-12-2014		7.5	1776	15.4	57.7	0.7	0.9	
Dec-16-2014	10.4	8.0	638	13.7	37.9	1.21 U	1.4	6
Dec-23-2014		7.6	1995	12.9	56.0	0.7	1.4	
Dec-30-2014	11.6	7.6	2018	9.6	105.0	< 0.4	1.1	

Notes:

Table 6c. Cont'd Water quality monitoring in Salt Slough at Highway 165 (Station F)

	Nutrients				
PARAMETER	**Nitrates as N (dissolved)**	**Ammonia as N**	**Total Kjeldahl Nitrogen**	**Total phosphorous**	**Ortho-phosphate as P**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Jan-09-2014	<10	0.3	0.8	0.095L,V	0.050T
Feb-27-2014	1.3 T	0.26 L	1.0	0.32 T	<0.010
Mar-26-2014	0.8	0.1	1.0	0.29 T	0.1
Apr-25-2014					
May-08-2014	0.5	0.1	0.7	0.21 T	0.1
Jun-26-2014	0.5	< 0.5	0.5	0.3	0.1
Jul-31-2014	0.5	0.076 V	1.3	0.2	0.1
Sep-04-2015	0.1	0.1	0.9	0.28 T	0.052 T
Oct-31-2014	1.2	<0.5	0.7	0.4	<1.0
Dec-16-2014	1.5	0.2	1.6	0.4	0.2

Notes:

	General Minerals						
PARAMETER	**Calcium**	**Magnesium**	**Potassium**	**Sodium**	**Chloride (dissolved)**	**Sulfate (dissolved)**	**Total Organic Carbon**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Jan-09-2014	68	40.0	4.2	220	290	230	NA
Feb-27-2014	85	53.0	4.6	310	360	280	5.4

Notes:

	Total Metals							
PARAMETER	**Arsenic**	**Cadmium**	**Copper**	**Lead**	**Mercury**	**Molybdenum**	**Nickel**	**Zinc**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Jan-09-2014	<5.0	<1.0	18.0	<2.5	110	9.4	<10	5.3
Feb-27-2014	<5.0	<1.0	<50	<2.5	<100	12.0	11.0	<10

Notes:

Table 7a. Water quality monitoring in Grasslands Wetlands Water Supply Channels
Camp 13 Ditch headworks (Station J)

PARAMETER	Flow	Specific Conductance	Temperature	Total Selenium
DATA SOURCE	GWD	SLDMWA	GWD	SLDMWA
UNITS	cfs	µS/cm	°C	µg/L
Jan-06-2014	17	504	8.4	0.8
Jan-13-2014	14	467	9.1	1.0
Jan-21-2014	39	510	9.6	1.0
Jan-27-2014	23	434	10.5	1.0
Feb-03-2014	32	533	10.4	1.0
Feb-10-2014	32	790	12.8	1.4
Feb-18-2014	34	1,006	14.3	1.2
Feb-24-2014	24	1,135	15.3	1.0
Mar-03-2014	<20			
Mar-10-2014	<20			
Mar-17-2014	<20			
Mar-31-2014	<20			
Apr-07-2014	<20			
Apr-14-2014	<20			
Apr-21-2014	<20			
Apr-28-2014	<20			
May-05-2014	<20			
May-12-2014	<20			
May-19-2014	<20			
May-26-2014	<20			
Jun-02-2014	<20			
Jun-09-2014	<20			
Jun-16-2014	<20			
Jun-23-2014	<20			
Jun-30-2014	<20			
Jul-07-2014	<20			
Jul-14-2014	<20			
Jul-21-2014	<20			
Jul-28-2014	<20			
Aug-04-2014	<20			
Aug-11-2014	<20			
Aug-18-2014	<20			
Aug-25-2014	<20			

PARAMETER	Flow	Specific Conductance	Temperature	Total Selenium
DATA SOURCE	GWD	SLDMWA	GWD	SLDMWA
UNITS	cfs	µS/cm	°C	µg/L
Sep-01-2014	<20			
Sep-08-2014	<20			
Sep-15-2014	<20			
Sep-22-2014	80	457	23.5	<0.4
Sep-29-2014	122	688	21.8	0.6
Oct-06-2014				
Oct-13-2014	196	681	21.1	<0.4
Oct-20-2014	137	754	20.4	0.5
Oct-27-2014	45	870	17.2	0.9
Nov-03-2014	95	807	16.6	0.6
Nov-10-2014	110	707	17.6	<0.4
Nov-17-2010				
Nov-24-2014	65	931	13.9	1.0
Dec-02-2014	100	855	13.5	<0.4
Dec-08-2014	88	869	15.0	1.3
Dec-15-2014	84	813	12.3	1.1
Dec-23-2014	21	837	13.7	0.8

Notes:

Samples collected when more than 20 cfs is passing site

Table 7b. Water quality monitoring in Grasslands Wetlands Water Supply Channels Agatha Canal headworks (Station K2)

PARAMETER	Flow	Specific Conductance	Temperature	Total Selenium
DATA SOURCE	GWD	USBR	GWD	USBR
UNITS	cfs	µS/cm	°C	µg/L
Jan-06-2014	53	496	8.3	0.8
Jan-13-2014	42	467	9.0	0.9
Jan-21-2014	41	514	9.6	0.9
Jan-27-2014	40	463	10.5	1.0
Feb-03-2014	<20			
Feb-10-2014	<20			
Feb-18-2014	<20			
Feb-24-2014	<20			
Mar-03-2014	<20			
Mar-10-2014	<20			
Mar-17-2014	<20			
Mar-31-2014	<20			
Apr-07-2014	<20			
Apr-14-2014	<20			
Apr-21-2014	<20			
Apr-28-2014	<20			
May-05-2014	<20			
May-12-2014	<20			
May-19-2014	<20			
May-26-2014	<20			
Jun-02-2014	<20			
Jun-09-2014	<20			
Jun-16-2014	<20			
Jun-23-2014	<20			
Jun-30-2014	<20			
Jul-07-2014	<20			
Jul-14-2014	<20			
Jul-21-2014	<20			
Jul-28-2014	<20			
Aug-04-2014	<20			
Aug-11-2014	<20			
Aug-18-2014	<20			
Aug-25-2014	<20			

PARAMETER	Flow	Specific Conductance	Temperature	Total Selenium
DATA SOURCE	GWD	USBR	GWD	USBR
UNITS	cfs	µS/cm	°C	µg/L
Sep-01-2014	<20			
Sep-08-2014	<20			
Sep-15-2014	<20			
Sep-22-2014	80	465	23.5	<0.4
Sep-29-2014	122	696	21.8	0.6
Oct-06-2014				
Oct-13-2014	196	695	21.1	0.4
Oct-20-2014	136	780	20.4	<0.4
Oct-27-2014	45	845	17.2	0.4
Nov-03-2014	95	819	16.6	0.5
Nov-10-2014	110	717	17.6	<0.4
Nov-17-2010				
Nov-24-2014	65	846	13.9	<0.4
Dec-02-2014	100	875	13.5	0.8
Dec-08-2014	88	893	15.0	1.1
Dec-15-2014	84	813	12.3	1.0
Dec-23-2014	21	807	13.7	0.4

Notes:

Samples collected when more than 20 cfs is passing headworks.

Less than 20 cfs and water does not reach Site C

Table 8a. Water monitoring in the San Joaquin River above Merced River confluence (Station H2)
USGS Station Code: 11273400

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jan-01-2014	210	8.6	2,420
Jan-02-2014	211	8.9	2,390
Jan-03-2014	206	9.2	2,370
Jan-04-2014	201	9.2	2,390
Jan-05-2014	202	9.2	2,360
Jan-06-2014	202	9.1	2,370
Jan-07-2014	194	9.7	2,530
Jan-08-2014	194	9.8	2,480
Jan-09-2014	191	10.8	2,470
Jan-10-2014	188	10.8	2,530
Jan-11-2014	193	10.5	2,450
Jan-12-2014	190	9.9	2,530
Jan-13-2014	191	9.6	2,480
Jan-14-2014	195	9.7	2,480
Jan-15-2014	193	9.9	2,580
Jan-16-2014	191	10.0	2,590
Jan-17-2014	180	10.1	2,760
Jan-18-2014	176	10.1	2,700
Jan-19-2014	173	10.1	2,890
Jan-20-2014	175	10.1	2,940
Jan-21-2014	178	9.9	2,700
Jan-22-2014	179	10.0	2,580
Jan-23-2014	182	10.1	2,600
Jan-24-2014	186	10.8	2,670
Jan-25-2014	186	11.6	2,830
Jan-26-2014	189	11.3	2,950
Jan-27-2014	190	11.0	3,120
Jan-28-2014	189	12.8	3,070
Jan-29-2014	191	14.4	2,920
Jan-30-2014	197	15.0	2,580
Jan-31-2014	217	13.8	2,360
Feb-01-2014	220	11.8	2,350
Feb-02-2014	223	10.4	2,420
Feb-03-2014	222	10.2	2,420
Feb-04-2014	214	11.0	2,680
Feb-05-2014	213	11.1	2,670
Feb-06-2014	211	11.7	2,700

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Feb-07-2014	221	11.5	2,680
Feb-08-2014	238	12.1	2,480
Feb-09-2014	257	13.0	2,390
Feb-10-2014	266	14.3	2,470
Feb-11-2014	269	14.6	2,490
Feb-12-2014	254	15.1	2,430
Feb-13-2014	239	15.5	2,500
Feb-14-2014	225	16.0	2,610
Feb-15-2014	218	15.3	2,640
Feb-16-2014	215	15.2	2,690
Feb-17-2014	205	14.5	2,680
Feb-18-2014	201	13.9	2,710
Feb-19-2014	205	14.0	2,690
Feb-20-2014	209	13.5	2,790
Feb-21-2014	201	13.7	2,840
Feb-22-2014	198	14.5	2,680
Feb-23-2014	192	15.0	2,590
Feb-24-2014	195	15.6	2,450
Feb-25-2014	178	16.1	2,670
Feb-26-2014	182	15.6	2,550
Feb-27-2014	199	15.4	2,500
Feb-28-2014	231	14.8	2,490
Mar-01-2014	257	14.4	2,550
Mar-02-2014	270	14.7	2,680
Mar-03-2014	268	14.3	2,620
Mar-04-2014	251		
Mar-05-2014	243	16.5	2,700
Mar-06-2014	240	17.5	2,810
Mar-07-2014	229	16.7	2,860
Mar-08-2014	226	17.3	2,740
Mar-09-2014	221	17.2	2,750
Mar-10-2014	216	17.6	2,770
Mar-11-2014	214	16.1	2,770
Mar-12-2014	211	15.7	2,710
Mar-13-2014	215	16.6	2,560
Mar-14-2014	229	16.5	2,360
Mar-15-2014	235	17.7	2,380
Mar-16-2014	231	18.6	2,440
Mar-17-2014	219	18.3	2,600

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Mar-18-2014	219	16.5	2,580
Mar-19-2014	206	16.9	2,500
Mar-20-2014	189	17.4	2,550
Mar-21-2014	185	18.6	2,730
Mar-22-2014	180	18.8	2,730
Mar-23-2014	173	18.8	2,850
Mar-24-2014	168	19.4	
Mar-25-2014	162	18.8	3,000
Mar-26-2014	164	17.8	2,910
Mar-27-2014	163	16.9	2,760
Mar-28-2014	180	16.6	2,760
Mar-29-2014	191	17.9	2,730
Mar-30-2014	206		
Mar-31-2014	215	16.5	2,760
Apr-01-2014	224	15.1	2,680
Apr-02-2014	242	15.6	2,610
Apr-03-2014	239	15.6	2,710
Apr-04-2014	227	16.8	2,670
Apr-05-2014	224	16.7	2,650
Apr-06-2014	225	17.7	2,710
Apr-07-2014	214	19.7	2,660
Apr-08-2014	209	21.4	2,600
Apr-09-2014	207	22.9	2,250
Apr-10-2014	201	22.7	2,200
Apr-11-2014	193	22.2	2,210
Apr-12-2014	186	21.7	2,360
Apr-13-2014	182	21.6	2,460
Apr-14-2014	178	22.1	2,650
Apr-15-2014	166	21.9	2,700
Apr-16-2014	148	21.8	2,680
Apr-17-2014	138	21.3	2,880
Apr-18-2014	132	22.2	3,000
Apr-19-2014	130	21.3	3,000
Apr-20-2014	124	20.6	2,840
Apr-21-2014	126	21.7	2,480
Apr-22-2014	126	20.6	1,880
Apr-23-2014	121	19.4	2,290
Apr-24-2014	120	18.8	2,450
Apr-25-2014	144	19.0	2,070

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Apr-26-2014	146	18.8	2,370
Apr-27-2014	139	18.5	2,670
Apr-28-2014	127	19.5	3,200
Apr-29-2014	113		
Apr-30-2014	105	23.6	3,110
May-01-2014	107		
May-02-2014	89		
May-03-2014	82	21.9	3,050
May-04-2014	81	21.7	3,100
May-05-2014	80	20.6	2,860
May-06-2014	71	19.4	3,090
May-07-2014	67	20.7	3,260
May-08-2014	69		
May-09-2014	67	22.4	3,320
May-10-2014	68	20.5	3,430
May-11-2014	72	18.7	3,120
May-12-2014	74	22.6	3,190
May-13-2014	74	23.1	3,150
May-14-2014	73	26.4	3,180
May-15-2014	67	25.3	3,610
May-16-2014	66	24.4	3,630
May-17-2014	65	24.0	3,570
May-18-2014	66	23.4	3,030
May-19-2014	64	22.6	3,160
May-20-2014	61	22.0	3,380
May-21-2014	58	21.2	3,140
May-22-2014	59	24.6	2,950
May-23-2014	57	25.4	2,960
May-24-2014	54	25.4	3,030
May-25-2014	53	25.4	3,250
May-26-2014	54	25.6	3,140
May-27-2014	58	24.6	2,910
May-28-2014	57	22.1	2,630
May-29-2014	54	20.7	3,330
May-30-2014	49	23.6	3,430
May-31-2014	50	23.5	2,980
Jun-01-2014	53	24.4	2,390
Jun-02-2014	50	24.6	2,370
Jun-03-2014	46	25.1	2,660

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jun-04-2014	44	25.0	2,730
Jun-05-2014	37	26.4	3,220
Jun-06-2014	35	26.1	3,930
Jun-07-2014	39	26.9	3,880
Jun-08-2014	35	27.5	3,340
Jun-09-2014	33	28.1	3,720
Jun-10-2014	37	27.2	3,740
Jun-11-2014	39	26.5	2,470
Jun-12-2014	39	25.6	2,190
Jun-13-2014	38	24.2	2,170
Jun-14-2014	37	23.8	3,420
Jun-15-2014	38	24.1	3,590
Jun-16-2014	37	24.0	3,310
Jun-17-2014	39	22.9	2,830
Jun-18-2014	39	22.0	2,660
Jun-19-2014	39	23.9	3,010
Jun-20-2014	38	25.2	3,040
Jun-21-2014	34	25.0	3,180
Jun-22-2014	36	23.6	3,590
Jun-23-2014	35	25.6	4,670
Jun-24-2014	33	27.1	4,060
Jun-25-2014	34	26.1	3,670
Jun-26-2014	32	25.2	3,560
Jun-27-2014	33	25.1	3,390
Jun-28-2014	33	26.0	3,190
Jun-29-2014	35	26.2	3,180
Jun-30-2014	36	28.1	2,700
Jul-01-2014	34	28.9	2,610
Jul-02-2014	34	28.2	2,050
Jul-03-2014	29	27.8	2,410
Jul-04-2014	29	27.5	2,960
Jul-05-2014	29	26.7	2,470
Jul-06-2014	28	26.3	2,090
Jul-07-2014	27	25.0	1,950
Jul-08-2014	27	25.9	2,010
Jul-09-2014	25	27.5	2,430
Jul-10-2014	26	27.3	2,700
Jul-11-2014	26	26.6	2,700
Jul-12-2014	25	25.9	2,860

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jul-13-2014	24	26.3	3,250
Jul-14-2014	22	27.9	3,290
Jul-15-2014	24	27.9	2,740
Jul-16-2014	24	28.0	1,960
Jul-17-2014	22	27.1	1,990
Jul-18-2014	20	26.9	2,370
Jul-19-2014	22	27.2	2,700
Jul-20-2014	22	27.2	2,290
Jul-21-2014	26	26.5	2,110
Jul-22-2014	27	26.6	1,760
Jul-23-2014	25	26.5	1,740
Jul-24-2014	24	26.1	2,070
Jul-25-2014	25	27.2	2,680
Jul-26-2014	25	27.9	3,050
Jul-27-2014	26	28.3	2,640
Jul-28-2014	25	27.5	2,430
Jul-29-2014	27	28.4	2,070
Jul-30-2014	23	28.3	1,910
Jul-31-2014	22	29.0	1,920
Aug-01-2014	24	28.4	1,770
Aug-02-2014	24	28.0	1,600
Aug-03-2014	26	26.6	1,520
Aug-04-2014	26	24.1	1,530
Aug-05-2014	26	24.1	1,890
Aug-06-2014	25	25.9	1,730
Aug-07-2014	23	27.1	1,670
Aug-08-2014	20	27.4	2,110
Aug-09-2014	22	26.8	2,290
Aug-10-2014	21	25.8	2,120
Aug-11-2014	20	25.4	2,360
Aug-12-2014	19	26.7	2,640
Aug-13-2014	19	25.7	2,580
Aug-14-2014	20	26.0	2,590
Aug-15-2014	20	26.7	2,310
Aug-16-2014	19	27.1	2,620
Aug-17-2014	20	26.5	2,770
Aug-18-2014	23	26.0	2,280
Aug-19-2014	23	26.2	2,130

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Aug-20-2014	25	25.8	2,060
Aug-21-2014	25	25.6	1,800
Aug-22-2014	28	26.0	1,540
Aug-23-2014	28	25.4	1,430
Aug-24-2014	28	25.4	
Aug-25-2014	29	24.8	
Aug-26-2014	30		
Aug-27-2014	34	26.0	1,320
Aug-28-2014	34	26.3	1,230
Aug-29-2014	32	25.9	1,310
Aug-30-2014	30	25.6	1,530
Aug-31-2014	30	25.5	1,550
Sep-01-2014	30	25.8	1,543
Sep-02-2014	30	26.4	1,365
Sep-03-2014	31	25.3	1,182
Sep-04-2014	31	25.2	1,288
Sep-05-2014	29	25.2	1,430
Sep-06-2014	27	25.2	1,669
Sep-07-2014	25	24.7	1,867
Sep-08-2014	25	24.5	1,958
Sep-09-2014	24	23.2	2,038
Sep-10-2014	25	24.2	2,004
Sep-11-2014	26	24.5	1,937
Sep-12-2014	26	25.0	1,947
Sep-13-2014	25	25.3	1,926
Sep-14-2014	26	25.7	1,853
Sep-15-2014	28	25.6	1,758
Sep-16-2014	26	24.4	1,757
Sep-17-2014	25	24.9	1,747
Sep-18-2014	24	24.6	1,938
Sep-19-2014	26	24.4	2,148
Sep-20-2014	26	24.5	2,067
Sep-21-2014	25	24.2	2,103
Sep-22-2014	27	23.8	1,954
Sep-23-2014	27	24.1	1,862
Sep-24-2014	29	24.4	1,635
Sep-25-2014	28	22.0	1,430
Sep-26-2014	26	20.4	1,638
Sep-27-2014	24	20.5	1,874

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Sep-28-2014	25	21.1	2,119
Sep-29-2014	27	21.3	1,920
Sep-30-2014	23	21.7	1,930
Oct-01-2014	22	20.3	2,068
Oct-02-2014	22	20.5	2,199
Oct-03-2014	23	21.5	2,340
Oct-04-2014	23	21.7	2,258
Oct-05-2014	23	21.7	2,267
Oct-06-2014	23	22.0	2,220
Oct-07-2014	22	21.8	2,158
Oct-08-2014	21	21.5	2,111
Oct-09-2014	23	21.2	2,159
Oct-10-2014	23	20.7	2,239
Oct-11-2014	25	20.7	2,302
Oct-12-2014	29	19.6	2,389
Oct-13-2014	32	19.5	2,404
Oct-14-2014	33	20.1	2,432
Oct-15-2014	34	19.7	2,254
Oct-16-2014	37	19.4	2,124
Oct-17-2014	40	18.9	1,946
Oct-18-2014	45	19.1	1,822
Oct-19-2014	49	19.5	1,760
Oct-20-2014	49	19.7	1,765
Oct-21-2014	48	18.0	1,808
Oct-22-2014	61	17.3	1,820
Oct-23-2014	83	18.1	1,861
Oct-24-2014	91	18.5	1,933
Oct-25-2014	93	18.0	2,067
Oct-26-2014	116	16.9	2,454
Oct-27-2014	128	15.8	2,296
Oct-28-2014	112	15.9	1,607
Oct-29-2014	97	16.5	1,395
Oct-30-2014	78	16.8	1,685
Oct-31-2014	88	16.8	2,096
Nov-01-2014	83	16.3	2,262
Nov-02-2014	70	15.2	2,205
Nov-03-2014	67	14.4	2,063
Nov-04-2014	70	14.1	2,158
Nov-05-2014	78	14.7	2,834
Nov-06-2014	81	15.1	2,471

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Nov-07-2014	81	15.6	2,555
Nov-08-2014	79	16.0	2,664
Nov-09-2014	79	16.3	2,705
Nov-10-2014	81	16.3	2,466
Nov-11-2014	78	15.9	2,314
Nov-12-2014	76	16.2	2,188
Nov-13-2014	78	16.2	2,082
Nov-14-2014	81	16.3	1,963
Nov-15-2014	81	15.5	1,914
Nov-16-2014	79	13.7	1,983
Nov-17-2014	77	12.6	2,061
Nov-18-2014	76	11.9	2,064
Nov-19-2014	76	12.7	2,028
Nov-20-2014	75	13.3	2,066
Nov-21-2014	72	13.4	1,981
Nov-22-2014	70	13.5	2,095
Nov-23-2014	69	12.7	2,069
Nov-24-2014	67	11.9	2,064
Nov-25-2014	69	11.4	2,113
Nov-26-2014	76	11.4	2,160
Nov-27-2014	78	11.6	1,936
Nov-28-2014	80	11.5	1,835
Nov-29-2014	87	11.3	1,782
Nov-30-2014	94	11.6	1,714
Dec-01-2014	93	11.7	1,750
Dec-02-2014	98	11.9	1,805
Dec-03-2014	109	13.0	1,798
Dec-04-2014	118	14.5	1,855
Dec-05-2014	119	14.6	2,206
Dec-06-2014	125	15.0	2,838
Dec-07-2014	138	14.9	2,896
Dec-08-2014	130	14.5	2,551
Dec-09-2014	114	14.0	2,198
Dec-10-2014	98	13.6	2,095
Dec-11-2014	112	13.3	1,856
Dec-12-2014	227	12.9	1,540
Dec-13-2014	322	12.3	1,500
Dec-14-2014	410	11.6	1,803
Dec-15-2014	493	11.1	1,808

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-16-2014	592	11.3	1,705
Dec-17-2014	623	12.0	1,717
Dec-18-2014	605	12.5	1,803
Dec-19-2014	571	12.2	1,731
Dec-20-2014	540	12.3	1,617
Dec-21-2014	517	13.0	1,680
Dec-22-2014	484	13.6	1,662
Dec-23-2014	453	13.5	1,658
Dec-24-2014	419	13.1	1,681
Dec-25-2014	393	11.1	1,719
Dec-26-2014	360	9.5	1,792
Dec-27-2014	330	8.9	1,843
Dec-28-2014	307	9.0	1,855
Dec-29-2014	286	9.0	1,891
Dec-30-2014	266	8.7	1,905
Dec-31-2014	249	6.6	1,880

Notes:

Table 8b. Monthly Averages and Totals

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm
Jan-14	11,780	11	2,616
Feb-14	12,100	14	2,581
Mar-14	13,040	17	2,684
Apr-14	10,030	20	2,588
May-14	4,100	23	3,174
Jun-14	2,250	25	3,195
Jul-14	1,570	27	2,394
Aug-14	1,530	26	1,939
Sep-14	1,580	24	1,796
Oct-14	3,160	19	2,072
Nov-14	4,580	14	2,160
Dec-14	19,240	12	1,892

Notes:

Table 9. Water quality monitoring in the San Joaquin River above Merced River at China Island Refuge (Station R)

	Physicals							
PARAMETER	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity	Total Selenium	Total Boron	Total Molybdenum
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L	ug/L
Jan-03-2014	12.2	8.0	2,340	8.3	17.0	0.9	1.8	
Jan-09-2014	14.0	7.9	2,511	9.8	17.7	0.8		
Jan-14-2014	16.0	7.9	2,501	8.5	15.5	0.9		
Jan-23-2014	13.0	8.0	2,868	8.7	19.9	1.4		
Feb-07-2014	8.4	7.6	3,034	10.7	34.5	2.1 U		13
Feb-14-2014	8.6	7.7	2,948	14.3	50.9	2.8 U		14
Feb-21-2014	9.5	7.9	3,254	13.2	26.8	4.0 U		15
Mar-21-2014	10.9	8.1	3,071	17.6		0.8	2.3	
Mar-26-2014	11.9	8.2	3,057	19.3		0.6	2.2	
Apr-04-2014	11.9	8.0	2,675	17.6		0.6	2.0	
Apr-11-2014	9.4	7.9	2,439	22.9	95.0	0.9	1.8	7
Apr-18-2014	8.8	7.9	3,061	21.2	66.1	0.7	1.9	
Apr-30-2014	16.4	8.2	2,659	25.3	40.6	1.0	3.5	
May-08-2014	16.7	8.3	3,617	21.9	14.9	2.67 U	2.4	16
May-16-2014	16.6	8.2	3,609	24.6	27.8	0.9	2.1	
May-23-2014	11.6	8.5	3,339	27.1	24.9	0.9	2.2	
May-30-2014	13.2	8.5	3,580	27.2		1.0	2.4	
Jun-06-2014	22.1	8.4	4,483	26.4	15.8	0.5	2.2	
Jun-13-2014	11.9	8.5	2,116	27.5		< 0.4	0.8	
Jun-20-2014	11.3	8.3	3,163	26.7	46.1	1.6	2.7	
Jun-26-2014	15.6	8.8	3,631	26.0	64.3	P	3.4	14
Jul-02-2014		8.6	2,087	28.2	40.1	1.5	1.2	
Jul-11-2014	8.4	8.3	2,832	26.3	18.1	0.6	1.8	
Jul-18-2014	8.2	8.3	2,834	26.6	26.3	0.8	3.1	
Jul-25-2014	10.3	8.4	2,399	26.7	17.2	0.5	1.2	
Jul-31-2014	8.2	8.3	1,376	27.4		< 0.4	0.6	
Aug-07-2014								
Aug-15-2014	10.3	8.4	2,399	26.7	17.2	0.5	1.2	
Aug-22-2014	8.2	8.3	1,376	27.4	NA	< 0.4	0.6	
Sep-04-2014	9.5	8.2	1,282	25.8	25.3	< 0.4	0.5	7
Sep-19-2014								
Sep-26-2014								
Oct-03-2014								
Oct-10-2014	17.9	8.1	2,452	23.8	14.1	< 0.4	1.0	
Oct-17-2014	NA	8.1	1,829	20.8	29.9	< 0.4	0.6	
Oct-24-2014								
Oct-31-2014	10.1	8.0	2,433	16.9	10.8	< 0.4	1.7	13
Nov-07-2014	14.3	8.5	2,834	16.5	22.9	3.1	3.5	
Nov-14-2014	9.5	7.9	1,920	16.7	47.1	0.7	1.6	
Nov-21-2014								
Nov-28-2014	11.3	7.9	1,964	12.0	22.3	0.6	1.8	
Dec-05-2014								
Dec-12-2014								
Dec-16-2014								
Dec-23-2014								
Dec-30-2014	9.0	7.6	2,580	8.3	14.3	3.2	2.4	

Notes:

Table 9. cont'd Water quality monitoring in the San Joaquin River above Merced River at China Island Refuge (Station R)

	Nutrients				
PARAMETER	**Nitrates as N (Dissolved)**	**Total Ammonia**	**Total Kjeldahl Nitrogen**	**Total phosphorous**	**Ortho-phosphate as P**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Jan-09-2014	0.16	0.098	0.9	0.16V	0.05 T
Feb-27-2014					
Mar-26-2014	0.05	0.110	2.0	0.53 T	0.2
Apr-25-2014					
May-08-2014	<0.010	0.051	1.0	0.20 T	<0.010
Jun-26-2014	<1.0	<0.5	1.6	0.3	<0.05
Jul-31-2014					
Sep-04-2015	<0.010	0.075	0.78	0.17 T	0.052 T
Oct-31-2014	<0.4	<0.5	0.55	0.5	<1.0
Dec-16-2014					

Notes:

	General Minerals							
PARAMETER	**Calcium**	**Magnesium**	**Potassium**	**Sodium**	**Chloride (Dissolved)**	**Sulfate (Dissolved)**	**Total Organic Carbon**	**Total Dissolved Solids**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**Units**	**mg/L**
Jan-09-2014	91	59	5	310	430	430		

Notes:

	Total Metals							
PARAMETER	**Arsenic**	**Cadmium**	**Copper**	**Lead**	**Mercury**	**Molybdenum**	**Nickel**	**Zinc**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
Jan-09-2014	<5.0	<1.0	23	<2.5	<100	12	<10	<5.0

Notes:

Table 10a. Water monitoring in the San Joaquin River at Fremont Ford (Station G)
USGS Station Code: 11261500

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jan-01-2014	110	8.3	1,870
Jan-02-2014	117	8.6	1,860
Jan-03-2014	118	8.8	1,820
Jan-04-2014	117	8.9	1,840
Jan-05-2014	115	8.8	1,860
Jan-06-2014	113	8.7	1,880
Jan-07-2014	108	9.5	1,990
Jan-08-2014	105	9.4	2,000
Jan-09-2014	108	10.1	1,960
Jan-10-2014	100	10.5	2,070
Jan-11-2014	103	10.2	1,980
Jan-12-2014	103	9.6	2,010
Jan-13-2014	107	9.2	1,930
Jan-14-2014	110	9.3	1,890
Jan-15-2014	105	9.5	1,980
Jan-16-2014	102	9.6	2,030
Jan-17-2014	97	9.8	2,060
Jan-18-2014	90	9.7	2,110
Jan-19-2014	82	9.7	2,210
Jan-20-2014	84	9.8	2,170
Jan-21-2014	95	9.6	1,980
Jan-22-2014	92	9.6	2,040
Jan-23-2014	96	9.9	1,990
Jan-24-2014	103	10.9	1,950
Jan-25-2014	99	11.2	1,950
Jan-26-2014	93	10.8	2,110
Jan-27-2014	97	10.8	2,030
Jan-28-2014	95	12.4	2,070
Jan-29-2014	103	14.2	1,980
Jan-30-2014	103	14.6	1,980
Jan-31-2014	110	13.4	1,920
Feb-01-2014	109	11.5	1,950
Feb-02-2014	101	10.1	2,060

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Feb-03-2014	103	10.0	2,020
Feb-04-2014	99	10.5	2,060
Feb-05-2014	98	11.0	2,070
Feb-06-2014	89	11.6	2,270
Feb-07-2014	100	11.3	2,090
Feb-08-2014	115	12.0	1,940
Feb-09-2014	122	13.2	1,940
Feb-10-2014	122	14.3	2,030
Feb-11-2014	121	14.6	2,030
Feb-12-2014	113	15.0	2,090
Feb-13-2014	107	15.4	2,190
Feb-14-2014	106	16.0	2,230
Feb-15-2014	106	15.0	2,300
Feb-16-2014	111	15.3	2,190
Feb-17-2014	110	14.3	2,210
Feb-18-2014	115	13.6	2,140
Feb-19-2014	108	14.1	2,220
Feb-20-2014	108	13.4	2,220
Feb-21-2014	101	13.6	2,330
Feb-22-2014	105	14.4	2,280
Feb-23-2014	105	14.9	2,300
Feb-24-2014	109	15.4	2,190
Feb-25-2014	106	15.9	2,290
Feb-26-2014	113	15.6	2,230
Feb-27-2014	114	15.3	2,210
Feb-28-2014	127	14.7	2,150
Mar-01-2014	143	14.7	2,010
Mar-02-2014	157	14.6	1,890
Mar-03-2014	154	14.1	1,960
Mar-04-2014	146	15.8	2,100
Mar-05-2014	137	17.0	2,220
Mar-06-2014	133	17.9	2,250
Mar-07-2014	127	16.6	2,220
Mar-08-2014	123	16.9	2,150
Mar-09-2014	118	17.8	2,200

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Mar-10-2014	116	17.8	2,300
Mar-11-2014	115	15.9	2,310
Mar-12-2014	114	16.1	2,300
Mar-13-2014	109	16.6	2,350
Mar-14-2014	115	16.5	2,200
Mar-15-2014	116	17.4	2,210
Mar-16-2014	112	18.4	2,260
Mar-17-2014	107	18.3	2,340
Mar-18-2014	111	16.3	2,250
Mar-19-2014	107	16.8	2,280
Mar-20-2014	91	18.3	2,490
Mar-21-2014	93	18.8	2,430
Mar-22-2014	85	18.7	2,430
Mar-23-2014	80	18.7	2,470
Mar-24-2014	79	18.9	2,490
Mar-25-2014	80	18.6	2,490
Mar-26-2014	86	17.8	2,330
Mar-27-2014	85	16.6	2,390
Mar-28-2014	93	17.6	2,330
Mar-29-2014	101	18.1	2,240
Mar-30-2014	121	17.4	2,110
Mar-31-2014	127	16.7	2,140
Apr-01-2014	138	15.2	2,020
Apr-02-2014	141	15.1	2,040
Apr-03-2014	136	15.8	2,160
Apr-04-2014	137	17.0	2,050
Apr-05-2014	135	16.8	2,030
Apr-06-2014	134	17.8	2,000
Apr-07-2014	135	19.6	1,980
Apr-08-2014	147	21.5	1,870
Apr-09-2014	163	22.7	1,720
Apr-10-2014	161	22.6	1,800
Apr-11-2014	158	22.1	1,880
Apr-12-2014	141	21.6	2,120
Apr-13-2014	124	21.4	2,250

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Apr-14-2014	111	21.1	2,370
Apr-15-2014	101	22.4	2,410
Apr-16-2014	97	22.1	2,340
Apr-17-2014	97	21.8	2,410
Apr-18-2014	96	22.4	2,360
Apr-19-2014	95	21.9	2,260
Apr-20-2014	92	21.3	2,310
Apr-21-2014	97	21.6	2,120
Apr-22-2014	94	21.3	2,050
Apr-23-2014	85	19.9	2,390
Apr-24-2014	75	19.8	2,860
Apr-25-2014	74	19.4	2,860
Apr-26-2014	76	18.3	2,770
Apr-27-2014	83	18.4	2,380
Apr-28-2014	81	19.7	2,370
Apr-29-2014	82	20.3	2,360
Apr-30-2014	79	22.4	2,300
May-01-2014	73	24.8	2,320
May-02-2014	66	24.4	2,440
May-03-2014	66	22.5	2,470
May-04-2014	67	21.3	2,490
May-05-2014	64	20.9	2,540
May-06-2014	57	20.1	2,600
May-07-2014	59	20.6	2,570
May-08-2014	59	21.4	2,590
May-09-2014	58	22.3	2,520
May-10-2014	62	20.6	2,360
May-11-2014	62	18.9	2,340
May-12-2014	63	20.2	2,240
May-13-2014	59	22.7	2,280
May-14-2014	55	24.9	2,400
May-15-2014	0	24.9	2,610
May-16-2014	0	24.1	2,660
May-17-2014	56	23.8	2,280
May-18-2014	56	23.3	2,350

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
May-19-2014	0	22.6	2,310
May-20-2014	52	22.0	2,100
May-21-2014	53	22.7	1,960
May-22-2014	55	23.9	2,000
May-23-2014	52	25.2	2,260
May-24-2014	0	25.5	2,450
May-25-2014	51	25.6	2,430
May-26-2014	53	25.7	2,370
May-27-2014	61	24.9	1,880
May-28-2014	53	22.3	1,820
May-29-2014	0	21.3	2,130
May-30-2014	0	23.6	2,180
May-31-2014	56	23.5	1,750
Jun-01-2014	53	24.1	1,680
Jun-02-2014	46	24.3	1,920
Jun-03-2014	43	23.8	1,960
Jun-04-2014	37	25.2	2,600
Jun-05-2014	31	25.7	2,930
Jun-06-2014	31	26.2	1,890
Jun-07-2014	36	26.6	2,610
Jun-08-2014	30	27.0	1,850
Jun-09-2014	30	28.1	1,810
Jun-10-2014	39	27.3	2,090
Jun-11-2014	41	26.6	1,640
Jun-12-2014	42	25.8	1,640
Jun-13-2014	36	24.2	1,920
Jun-14-2014	34	24.0	2,240
Jun-15-2014	35	24.0	2,420
Jun-16-2014	37	23.4	2,350
Jun-17-2014	42	22.7	1,800
Jun-18-2014	40	23.0	1,850
Jun-19-2014	39	24.7	1,870
Jun-20-2014	37	25.4	1,940
Jun-21-2014	35	24.9	2,060
Jun-22-2014	34	24.7	2,070

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jun-23-2014	32	25.8	2,180
Jun-24-2014	33	26.6	2,140
Jun-25-2014	33	25.8	1,960
Jun-26-2014	32	25.6	2,110
Jun-27-2014	32	26.0	2,250
Jun-28-2014	31	26.2	1,940
Jun-29-2014	35	26.5	1,710
Jun-30-2014	35	28.0	1,820
Jul-01-2014	39	28.6	1,470
Jul-02-2014	36	28.3	1,520
Jul-03-2014	30	27.8	1,770
Jul-04-2014	32	27.7	1,530
Jul-05-2014	33	27.1	1,550
Jul-06-2014	32	26.8	1,600
Jul-07-2014	31	24.8	1,730
Jul-08-2014	30	27.6	1,720
Jul-09-2014	28	27.8	1,750
Jul-10-2014	29	27.3	2,180
Jul-11-2014	28	26.3	2,290
Jul-12-2014	26	26.2	
Jul-13-2014	25	26.8	
Jul-14-2014	28	27.7	1,840
Jul-15-2014	32	28.4	1,570
Jul-16-2014	31	28.0	1,610
Jul-17-2014	26	26.8	
Jul-18-2014	25	27.3	
Jul-19-2014	28	27.6	1,120
Jul-20-2014	30	27.5	1,470
Jul-21-2014	37	27.0	1,370
Jul-22-2014	37	27.0	1,300
Jul-23-2014	33	26.8	1,430
Jul-24-2014	31	27.0	1,610
Jul-25-2014	31	27.8	1,630
Jul-26-2014	33	28.1	1,520
Jul-27-2014	35	28.6	1,440

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jul-28-2014	36	27.2	1,470
Jul-29-2014	37	27.6	1,230
Jul-30-2014	32	28.7	1,400
Jul-31-2014	31	29.1	1,450
Aug-01-2014	36	28.6	1,210
Aug-02-2014	36	28.2	1,230
Aug-03-2014	36	26.7	1,140
Aug-04-2014	35	24.4	1,200
Aug-05-2014	34	25.4	1,230
Aug-06-2014	36	26.6	1,260
Aug-07-2014	30	27.4	1,280
Aug-08-2014	28	27.4	230
Aug-09-2014	30	27.1	640
Aug-10-2014	27	25.8	270
Aug-11-2014	26	26.4	150
Aug-12-2014	26	26.0	1,500
Aug-13-2014	27	25.6	1,810
Aug-14-2014	29	26.4	1,390
Aug-15-2014	26	26.4	1,780
Aug-16-2014	25	26.4	2,230
Aug-17-2014	30	26.1	1,620
Aug-18-2014	30	25.9	1,540
Aug-19-2014	29	26.0	1,530
Aug-20-2014	31	25.9	1,420
Aug-21-2014	33	25.9	1,260
Aug-22-2014	37	25.9	1,070
Aug-23-2014	34	25.4	1,280
Aug-24-2014	35	25.6	1,230
Aug-25-2014	37	24.9	1,190
Aug-26-2014	41	24.6	1,060
Aug-27-2014	43	25.5	960
Aug-28-2014	41	26.2	1,030
Aug-29-2014	37	25.9	1,340
Aug-30-2014	37	25.6	1,370
Aug-31-2014	36	25.4	1,390

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Sep-01-2014	38	25.6	1,222
Sep-02-2014	41	26.0	1,018
Sep-03-2014	42	25.0	1,034
Sep-04-2014	37	24.8	1,225
Sep-05-2014	33	25.1	1,526
Sep-06-2014	30	25.2	1,743
Sep-07-2014	30	24.7	1,836
Sep-08-2014	28	24.5	1,965
Sep-09-2014	29	23.4	1,906
Sep-10-2014	30	23.8	1,790
Sep-11-2014	29	24.3	1,798
Sep-12-2014	31	24.7	1,613
Sep-13-2014	29	24.7	1,658
Sep-14-2014	33	25.2	1,589
Sep-15-2014	33	25.4	1,534
Sep-16-2014	32	24.2	1,483
Sep-17-2014	29	24.3	1,593
Sep-18-2014	26	24.3	2,031
Sep-19-2014	28	24.1	1,965
Sep-20-2014	28	24.3	2,015
Sep-21-2014	28	24.2	1,914
Sep-22-2014	28	23.8	1,832
Sep-23-2014	31	24.0	1,573
Sep-24-2014	34	24.2	1,302
Sep-25-2014	28	22.0	1,496
Sep-26-2014	25	20.4	1,758
Sep-27-2014	24	20.5	2,099
Sep-28-2014	28	20.9	1,841
Sep-29-2014	26	21.1	1,796
Sep-30-2014	23	21.5	1,943
Oct-01-2014	22	20.4	2,074
Oct-02-2014	23	20.3	2,229
Oct-03-2014	23	21.1	2,083
Oct-04-2014	23	21.4	2,141
Oct-05-2014	22	21.5	2,155

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Oct-06-2014	22	21.9	2,095
Oct-07-2014	22	22.0	1,994
Oct-08-2014	22	21.5	2,014
Oct-09-2014	22	21.1	2,133
Oct-10-2014	22	20.7	2,129
Oct-11-2014	25	20.9	2,391
Oct-12-2014	28	20.2	2,393
Oct-13-2014	29	19.9	2,428
Oct-14-2014	31	20.4	2,190
Oct-15-2014	34	20.0	2,000
Oct-16-2014	35	19.5	1,810
Oct-17-2014	38	19.2	1,651
Oct-18-2014	39	19.3	1,578
Oct-19-2014	39	19.6	1,478
Oct-20-2014	37	19.8	1,502
Oct-21-2014	38	18.4	1,511
Oct-22-2014	36	17.4	1,559
Oct-23-2014	35	18.1	1,639
Oct-24-2014	32	18.5	1,784
Oct-25-2014	27	17.9	2,215
Oct-26-2014	32	16.9	1,986
Oct-27-2014	35	15.7	1,818
Oct-28-2014	36	15.6	1,773
Oct-29-2014	34	16.3	1,900
Oct-30-2014	33	16.4	2,084
Oct-31-2014	31	16.6	2,097
Nov-01-2014	38	16.4	1,897
Nov-02-2014	43	15.3	1,641
Nov-03-2014	49	14.6	1,562
Nov-04-2014	55	14.4	1,465
Nov-05-2014	56	14.8	1,452
Nov-06-2014	53	15.2	1,452
Nov-07-2014	50	15.6	1,543
Nov-08-2014	46	15.9	1,719
Nov-09-2014	53	16.2	1,619

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Nov-10-2014	58	16.3	1,526
Nov-11-2014	60	16.0	1,451
Nov-12-2014	62	16.0	1,456
Nov-13-2014	66	16.2	1,476
Nov-14-2014	68	16.2	1,285
Nov-15-2014	71	15.5	1,254
Nov-16-2014	71	14.2	1,238
Nov-17-2014	70	13.1	1,226
Nov-18-2014	70	12.4	1,252
Nov-19-2014	69	13.0	1,278
Nov-20-2014	68	13.4	1,303
Nov-21-2014	65	14.5	1,447
Nov-22-2014	63	13.3	1,634
Nov-23-2014	63	12.7	1,657
Nov-24-2014	64	11.7	1,668
Nov-25-2014	70	11.4	1,547
Nov-26-2014	77	11.5	1,454
Nov-27-2014	83	11.7	1,361
Nov-28-2014	86	11.5	1,374
Nov-29-2014	89	11.5	1,363
Nov-30-2014	88	11.7	1,368
Dec-01-2014	82	11.7	1,486
Dec-02-2014	83	11.9	1,507
Dec-03-2014	85	13.1	1,526
Dec-04-2014	89	14.5	1,517
Dec-05-2014	90	14.6	1,479
Dec-06-2014	86	15.0	1,555
Dec-07-2014	82	14.6	1,590
Dec-08-2014	77	14.4	1,658
Dec-09-2014	73	13.8	1,680
Dec-10-2014	66	13.5	1,729
Dec-11-2014	71	13.1	1,752
Dec-12-2014	109	12.8	1,554
Dec-13-2014	112	12.5	1,643
Dec-14-2014	154	11.6	1,537

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-15-2014	229	11.2	1,483
Dec-16-2014	292	11.4	1,504
Dec-17-2014	295	12.1	1,587
Dec-18-2014	281	12.4	1,603
Dec-19-2014	258	12.0	1,620
Dec-20-2014	238	12.3	1,740
Dec-21-2014	217	13.1	1,884
Dec-22-2014	191	13.6	1,948
Dec-23-2014	191	13.5	1,971
Dec-24-2014	158	13.0	2,027
Dec-25-2014	147	10.8	2,059
Dec-26-2014	130	9.3	2,160
Dec-27-2014	117	8.8	2,130
Dec-28-2014	108	9.1	2,094
Dec-29-2014	101	9.2	2,185
Dec-30-2014	96	9.0	2,281
Dec-31-2014	93	6.8	2,365

Notes:

Table 10b. Monthly Averages and Totals

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm
Jan-14	6,310	10	1,985
Feb-14	6,040	14	2,151
Mar-14	6,900	17	2,263
Apr-14	6,670	20	2,228
May-14	2,910	23	2,313
Jun-14	2,160	25	2,042
Jul-14	1,930	27	1,577
Aug-14	2,020	26	1,221
Sep-14	1,810	24	1,670
Oct-14	1,840	19	1,962
Nov-14	3,820	14	1,466
Dec-14	8,730	12	1,769

Notes:

Table 10c. Water quality monitoring in the San Joaquin River at Fremont Ford (Site G)

	Physicals							
PARAMETER	**Dissolved Oxygen**	**pH**	**Specific Conductance**	**Temperature**	**Turbidity**	**Total Selenium**	**Total Boron**	**Total Molybdenum**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**units**	**µS/cm**	**°C**	**NTU**	**ug/L**	**mg/L**	**ug/L**
Jan-03-2014								
Jan-09-2014								
Jan-14-2014								
Jan-23-2014								
Feb-07-2014								
Feb-14-2014								
Feb-21-2014								
Mar-06-2014	9.3	8.0	2,347	19.1	55.5	P	0.8	
Mar-14-2014	10.8	8.1	2,361	16.4	43.8	P	0.9	12
Mar-21-2014	10.5	8.1	2,576	17.8		<0.4	1.0	
Mar-26-2014	12.0	8.0	2,698	18.9		<0.4	1.1	
Apr-04-2014	11.5	7.9	1,224	17.2		< 0.4	0.9	
Apr-11-2014	9.3	7.9	1,962	22.8	55.3	< 0.4	1.0	9
Apr-18-2014	8.8	7.9	2,438	20.4	52.4	0.4	1.0	
Apr-30-2014	14.9	8.2	2,447	23.7	33.5	< 0.4	0.9	
May-08-2014	13.6	7.9	2,825	20.6	17.7	< 0.4	1.0	12
May-16-2014	12.9	8.0	3,002	22.9	20.9	< 0.4	1.0	
May-23-2014	13.5	8.1	2,130	25.8	30.9	< 0.4	0.7	
May-30-2014	13.4	8.0	2,437	25.2		< 0.4	0.8	
Jun-06-2014	20.1	8.0	3,833	25.7	26.1	< 0.4	0.7	
Jun-13-2014	11.2	8.4	2,197	25.4		< 0.4	0.7	
Jun-20-2014	11.3	8.1	2,058	25.5	31.2	< 0.4	0.7	
Jun-26-2014	10.5	8.3	2,381	25.6	32.6	< 0.4	0.5	11
Jul-02-2014		8.2	1,703	27.6	20.2	< 0.4	0.5	
Jul-11-2014	8.6	8.0	2,533	28.6	16.7	< 0.4	0.8	
Jul-18-2014	8.4	7.9	2,711	25.9	17.3	< 0.4	0.9	
Jul-25-2014	8.8	7.9	1,757	26.3	27.5	< 0.4	0.6	
Jul-31-2014	8.3	8.8	1,676	28.6		< 0.4	0.6	7.6
Aug-07-2014	7.9	7.7	1,694	26.5	36.8	< 0.4	0.6	
Aug-15-2014	11.0	8.4	2,319	26.6	13.0	< 0.4	0.7	
Aug-22-2014	8.2	8.0	1,108	26.6	NA	< 0.4	0.4	
Sep-04-2014	9.4	7.8	1,270	25.4	41.3	< 0.4	0.5	5
Sep-19-2014	13.2	7.9	2,005	28.0	15.5	< 0.4	0.8	
Sep-26-2014	12.2	7.7	1,824	20.9	14.1	< 0.4	0.7	
Oct-03-2014								
Oct-10-2014	13.3	7.8	2,205	21.9	17.1	< 0.4	0.9	
Oct-17-2014	NA	8.1	1,712	20.8	28.3	< 0.4	0.6	
Oct-24-2014	8.6	7.9	1,829	16.8	23.3	< 0.4	0.7	
Oct-31-2014	9.9	7.9	2,242	17.2	22.9	< 0.4	0.9	12
Nov-07-2014	9.9	8.1	1,630	16.5	22.3	< 0.4	0.7	
Nov-14-2014	9.8	8.1	1,455	17.0	19.7	< 0.4	0.6	
Nov-21-2014	9.8	7.9	1,599	13.7	18.0	< 0.4	0.7	
Nov-28-2014	11.1	7.9	1,411	11.7	19.9	< 0.4	0.6	
Dec-05-2014	7.1	7.7	1,488	14.3	23.9	< 0.4	0.6	
Dec-12-2014		7.7	1,598	13.2	43.2	0.6	0.6	
Dec-16-2014	10.8	7.6	1,592	11.5	35.1	1.6	1.3	6
Dec-23-2014		7.6	2,136	13.9	55.5	1.1	1.6	
Dec-30-2014	11.3	7.7	2,577	8.5	45.9	< 0.4	1.2	

Notes:

Table 10c. Cont'd Water quality monitoring in the San Joaquin River at Fremont Ford (Site G)

	Nutrients				
PARAMETER	**Nitrates as N (Dissolved)**	**Total ammonia**	**Total Kjeldahl Nitrogen**	**Total phosphorous**	**Ortho-phosphate as P**
DATA SOURCE	**USBR**	**USBR**	**USBR**	**USBR**	**USBR**
UNITS	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Jan-09-2014					
Feb-27-2014					
Mar-26-2014	0.36	<0.050	1.00	0.24T	0.03
Apr-25-2014					
May-08-2014	0.34	0.12	0.72	0.16T	0.04
Jun-26-2014	<1.0	<0.5	0.84	0.3	0.11
Jul-31-2014	<0.01	0.10	0.89	0.14	0.03
Sep-04-2014	0.02	0.11	1.00	0.29	0.08
Oct-31-2014	<0.4	0.54	0.97	0.37	<1
Dec-16-2014	1.10	0.22	1.50	0.32	0.14

Notes:

Table 11a. Water monitoring in the San Joaquin River at Crows Landing(Station N)
USGS Station Code: 11274550

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Jan-01-2014	398	8.1	1,430	0.6
Jan-02-2014	405	8.4	1,450	0.6
Jan-03-2014	403	8.6	1,440	0.6
Jan-04-2014	395	8.7	1,450	0.6
Jan-05-2014	393	8.8	1,470	0.6
Jan-06-2014	389	8.7	1,460	0.5
Jan-07-2014	378	9.3	1,460	0.5
Jan-08-2014	365	9.4	1,480	0.4
Jan-09-2014	362	9.7	1,480	0.5
Jan-10-2014	366	10.1	1,520	0.6
Jan-11-2014	367	10.3	1,540	
Jan-12-2014	365	9.8	1,540	
Jan-13-2014	354	9.5	1,550	
Jan-14-2014	350	9.3	1,580	
Jan-15-2014	351	9.4	1,590	
Jan-16-2014	343	9.7	1,600	
Jan-17-2014	332	9.9	1,620	
Jan-18-2014	327	9.9	1,660	
Jan-19-2014	332	9.9	1,690	
Jan-20-2014	336	9.9	1,700	
Jan-21-2014	333	9.8	1,720	
Jan-22-2014	335	9.7	1,750	
Jan-23-2014	342	9.7	1,750	0.7
Jan-24-2014	346	10.4	1,740	0.7
Jan-25-2014	347	11.1	1,730	0.8
Jan-26-2014	350	11.2	1,740	0.8
Jan-27-2014	360	10.9	1,750	0.8
Jan-28-2014	353	11.8	1,770	1.0
Jan-29-2014	354	13.7	1,810	1.2
Jan-30-2014	369	14.6	1,840	1.3
Jan-31-2014	394	13.8	1,780	1.3
Feb-01-2014	406	11.9	1,600	1.0
Feb-02-2014	415	10.4	1,580	1.0
Feb-03-2014	422	9.9	1,550	1.0
Feb-04-2014	415	10.4		0.8
Feb-05-2014	403	10.7	1,530	0.7
Feb-06-2014	408	11.2	1,600	1.2
Feb-07-2014	414	10.9	1,650	1.1

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Feb-08-2014	432	11.4	1,630	0.9
Feb-09-2014	455	12.5	1,660	1.1
Feb-10-2014	474	13.7	1,680	1.7
Feb-11-2014	482	14.0	1,700	1.8
Feb-12-2014	475	14.2	1,660	1.8
Feb-13-2014	459	14.6	1,660	1.6
Feb-14-2014	438	15.5	1,660	1.5
Feb-15-2014	426	15.1	1,710	1.4
Feb-16-2014	417	14.9	1,740	1.4
Feb-17-2014	400	14.5	1,800	1.3
Feb-18-2014	382	13.9	1,830	1.4
Feb-19-2014	377	14.0	1,940	1.5
Feb-20-2014	370	13.6	1,980	1.7
Feb-21-2014	366	13.4	2,060	2.3
Feb-22-2014	357	14.2	2,060	2.2
Feb-23-2014	349	14.7	1,960	1.6
Feb-24-2014	348	15.3	1,950	1.3
Feb-25-2014	341	15.8	1,880	1.1
Feb-26-2014	339	15.8	1,910	0.9
Feb-27-2014	357	15.3	1,840	0.8
Feb-28-2014	392	15.2	1,830	1.0
Mar-01-2014	423	14.9	1,899	1.2
Mar-02-2014	451	15.1	1,982	1.8
Mar-03-2014	460	14.5	2,069	2.4
Mar-04-2014	454	15.5	2,051	3.0
Mar-05-2014	434	17.0	2,080	2.5
Mar-06-2014	429	18.1	2,121	
Mar-07-2014	417	17.0	2,174	
Mar-08-2014	408	16.9	2,187	
Mar-09-2014	403	17.7	2,092	
Mar-10-2014	399	18.0	2,071	
Mar-11-2014	389	16.1	2,081	
Mar-12-2014	382	16.2	2,062	
Mar-13-2014	382	16.7	2,078	
Mar-14-2014	390	16.7	2,091	
Mar-15-2014	401	17.5	2,112	
Mar-16-2014	400	18.4	2,136	
Mar-17-2014	380	18.5	2,143	
Mar-18-2014	361	16.5	2,183	
Mar-19-2014	349	16.9	2,195	

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Mar-20-2014	325	18.2	2,241	
Mar-21-2014	304	18.9	2,449	
Mar-22-2014	298	18.7	2,450	0.7
Mar-23-2014	293	18.6	2,333	0.7
Mar-24-2014	286	19.0	2,210	0.6
Mar-25-2014	278	18.3	2,118	0.6
Mar-26-2014	267	17.8	2,126	0.5
Mar-27-2014	261	17.4	2,075	0.5
Mar-28-2014	271	18.0	2,070	0.5
Mar-29-2014	313	18.0	1,952	0.5
Mar-30-2014	350	17.5	1,827	0.5
Mar-31-2014	373	16.7	1,792	0.5
Apr-01-2014	384	15.3	1,790	0.4
Apr-02-2014	421	15.2	1,730	0.2
Apr-03-2014	430	16.2	1,770	0.2
Apr-04-2014	417	17.0	1,830	0.4
Apr-05-2014	403	17.3	1,880	0.4
Apr-06-2014	413	18.4	1,860	0.5
Apr-07-2014	405	20.3	1,820	0.5
Apr-08-2014	394	22.1	1,820	0.5
Apr-09-2014	394	23.3	1,760	0.6
Apr-10-2014	382	22.8	1,720	0.6
Apr-11-2014	365	22.4	1,720	0.6
Apr-12-2014	347	22.0	1,800	0.6
Apr-13-2014	341	21.7	1,880	0.6
Apr-14-2014	329	21.8	1,910	0.6
Apr-15-2014	312	22.6	1,990	0.5
Apr-16-2014	282	22.0	2,000	0.5
Apr-17-2014	249	21.8	2,070	0.5
Apr-18-2014	244	21.8	1,990	0.5
Apr-19-2014	243	21.4	2,030	0.5
Apr-20-2014	253	21.0	2,020	0.7
Apr-21-2014	253	21.6	2,010	0.7
Apr-22-2014	270	21.1	1,780	0.6
Apr-23-2014	262	19.6	1,630	0.5
Apr-24-2014	249	19.9	1,780	0.4
Apr-25-2014	323	19.1	1,670	0.5
Apr-26-2014	450	18.4	1,120	0.2
Apr-27-2014	518	18.4	992	0.2
Apr-28-2014	584	18.6	871	0.2

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Apr-29-2014	571	19.4	868	0.2
Apr-30-2014	469	21.3	1,040	0.2
May-01-2014	365	23.0	1,460	< 0.4
May-02-2014	305	23.3	1,620	0.9
May-03-2014	268	21.9	1,700	0.9
May-04-2014	262	20.9	1,720	0.9
May-05-2014	272	21.1	1,720	0.8
May-06-2014	255	19.9	1,770	
May-07-2014	226	20.7	1,900	0.8
May-08-2014	202	22.0	2,150	1.1
May-09-2014	183	22.4	2,290	1.2
May-10-2014	174	21.2	2,280	1.0
May-11-2014	183	19.6	2,390	0.9
May-12-2014	170	20.1	2,060	0.6
May-13-2014	164	22.7	2,060	0.6
May-14-2014	159	24.9		0.6
May-15-2014	153	25.4	1,980	0.7
May-16-2014	156	24.4	1,990	0.7
May-17-2014	153	23.9	1,720	0.6
May-18-2014	148	23.2	1,760	0.5
May-19-2014	151	22.4	1,810	0.5
May-20-2014	145	22.0	1,690	0.4
May-21-2014	138	22.6	1,700	< 0.4
May-22-2014	139	24.1	1,760	0.5
May-23-2014	135	25.1	1,770	0.5
May-24-2014	129	25.2	1,830	0.6
May-25-2014	132	25.0	1,850	0.7
May-26-2014	136	25.5	1,940	0.6
May-27-2014	148	24.5	1,820	0.8
May-28-2014	147	22.4	1,590	0.5
May-29-2014	139	21.3	1,500	0.5
May-30-2014	122	23.3	1,660	0.6
May-31-2014	116	23.0	2,050	0.7
Jun-01-2014	124	24.1	1,880	0.7
Jun-02-2014	142	25.4	1,680	0.6
Jun-03-2014	123	24.7	1,560	0.4
Jun-04-2014	105	25.3	1,790	0.5
Jun-05-2014	103	26.0	1,600	0.8
Jun-06-2014	86	25.6	1,580	0.6
Jun-07-2014	85	25.7	1,720	0.6

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Jun-08-2014	107	26.5	2,220	0.6
Jun-09-2014	98	27.0	1,940	0.5
Jun-10-2014	98	26.8	1,790	0.5
Jun-11-2014	111	26.2	1,760	0.5
Jun-12-2014	105	25.5	1,650	0.5
Jun-13-2014	105	24.1	1,450	0.5
Jun-14-2014	115	24.1	1,370	< 0.4
Jun-15-2014	108	24.1	1,460	0.5
Jun-16-2014	94	24.7	1,970	0.5
Jun-17-2014	96	23.7	1,930	0.6
Jun-18-2014	109	23.0	1,960	0.4
Jun-19-2014	106	23.7	1,830	0.4
Jun-20-2014	104	24.8	1,820	0.6
Jun-21-2014	100	24.6	1,930	0.6
Jun-22-2014	100	23.3	1,860	0.6
Jun-23-2014	106	25.1	2,050	0.7
Jun-24-2014	96	25.9	2,590	0.9
Jun-25-2014	85	25.5	2,530	1.3
Jun-26-2014	86	24.4	2,130	1.3
Jun-27-2014	89	24.2	1,890	1.3
Jun-28-2014	88	25.1	2,030	1.6
Jun-29-2014	86	25.6	2,240	2.0
Jun-30-2014	87	26.8	2,240	1.7
Jul-01-2014	85	27.9	2,080	1.6
Jul-02-2014	80	27.5	2,100	1.4
Jul-03-2014	66	27.4	2,120	1.1
Jul-04-2014	62	26.9	1,970	0.9
Jul-05-2014	69	26.1	2,010	0.8
Jul-06-2014	74	25.7	2,060	1.0
Jul-07-2014	79	24.6	1,840	0.7
Jul-08-2014	83	25.0	1,360	0.5
Jul-09-2014	75	27.4	1,520	0.7
Jul-10-2014	78	26.8	1,490	0.7
Jul-11-2014	85	26.1	1,610	0.6
Jul-12-2014	87	25.6	1,660	0.7
Jul-13-2014	91	25.9	1,750	0.5
Jul-14-2014	77	27.4	1,750	0.7
Jul-15-2014	83	27.4	1,480	0.4
Jul-16-2014	82	27.1	1,420	< 0.4
Jul-17-2014	65	26.5	1,520	0.5

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Jul-18-2014	58	26.3	1,550	0.7
Jul-19-2014	70	25.9	1,700	0.6
Jul-20-2014	67	26.6	1,670	0.7
Jul-21-2014	62	25.8	1,670	0.7
Jul-22-2014	62	26.0	1,530	0.7
Jul-23-2014	54	26.0	1,530	0.7
Jul-24-2014	58	25.6	1,520	0.6
Jul-25-2014	48	26.7	1,500	0.6
Jul-26-2014	58	26.9	1,590	0.6
Jul-27-2014	56	27.4	1,700	0.9
Jul-28-2014	57	27.1	1,880	0.7
Jul-29-2014	48	26.8	1,800	0.7
Jul-30-2014	52	26.8	1,750	0.6
Jul-31-2014	46	27.4	1,700	0.7
Aug-01-2014	62	27.3	1,560	0.6
Aug-02-2014	75	27.3	1,430	0.5
Aug-03-2014	71	26.2	1,400	0.4
Aug-04-2014	70	24.2	1,380	0.5
Aug-05-2014	62	24.1	1,340	< 0.4
Aug-06-2014	59	25.3	1,410	0.4
Aug-07-2014	60	26.2	1,540	0.6
Aug-08-2014	61	26.4	1,500	0.6
Aug-09-2014	54	26.0	1,500	0.6
Aug-10-2014	57	25.4	1,520	0.7
Aug-11-2014	45	25.3	1,560	0.7
Aug-12-2014	38	25.8	1,660	0.7
Aug-13-2014	48	24.9	1,720	0.7
Aug-14-2014	64	25.1	1,680	0.7
Aug-15-2014	72	25.6	1,440	0.5
Aug-16-2014	56	25.7	1,460	0.6
Aug-17-2014	57	25.4	1,520	0.6
Aug-18-2014	48	25.1	1,490	0.5
Aug-19-2014	57	24.8	1,550	0.5
Aug-20-2014	63	24.8	1,610	0.6
Aug-21-2014	77	24.8	1,580	0.5
Aug-22-2014	81	25.8	1,470	< 0.4
Aug-23-2014	74	25.3	1,440	< 0.4
Aug-24-2014	73	24.8	1,500	< 0.4
Aug-25-2014	77	24.6	1,550	0.4
Aug-26-2014	81	23.9	1,580	0.5

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Aug-27-2014	83	25.0	1,520	< 0.4
Aug-28-2014	79	25.6	1,410	< 0.4
Aug-29-2014	84	25.7	1,390	0.4
Aug-30-2014	86	25.2	1,360	< 0.4
Aug-31-2014	85	24.9	1,390	< 0.4
Sep-01-2014	87	25.3	1,287	< 0.4
Sep-02-2014	67	25.4	1,319	< 0.4
Sep-03-2014	77	24.0	1,361	< 0.4
Sep-04-2014	94	23.8	1,318	< 0.4
Sep-05-2014	84	24.3	1,267	0.4
Sep-06-2014	95	24.4	1,258	0.5
Sep-07-2014	91	24.0	1,255	0.5
Sep-08-2014	83	23.9	1,218	0.5
Sep-09-2014	81	22.7	1,203	0.5
Sep-10-2014	95	23.3	1,146	0.4
Sep-11-2014	79	23.9	1,179	< 0.4
Sep-12-2014	78	24.2	1,281	0.4
Sep-13-2014	103	24.5	1,207	< 0.4
Sep-14-2014	86	25.2	1,289	< 0.4
Sep-15-2014	77	25.2	1,424	< 0.4
Sep-16-2014	79	24.1	1,433	0.4
Sep-17-2014	75	24.6	1,436	0.4
Sep-18-2014	80	24.8	1,532	0.4
Sep-19-2014	96	23.9	1,462	0.6
Sep-20-2014	105	24.1	1,411	0.4
Sep-21-2014	112	23.8	1,389	< 0.4
Sep-22-2014	104	23.6	1,426	< 0.4
Sep-23-2014	98	23.8	1,441	0.4
Sep-24-2014	109	24.1	1,413	0.4
Sep-25-2014	115	22.7	1,365	0.4
Sep-26-2014	118	21.0	1,319	0.4
Sep-27-2014	114	20.7	1,245	< 0.4
Sep-28-2014	116	21.3	1,231	0.4
Sep-29-2014	108	21.2	1,240	0.4
Sep-30-2014	98	21.9	1,340	< 0.4
Oct-01-2014	95	20.8	1,385	< 0.4
Oct-02-2014	105	20.5	1,367	< 0.4
Oct-03-2014	93	21.5	1,320	< 0.4
Oct-04-2014	98	21.8	1,450	< 0.4
Oct-05-2014	114	21.9	1,486	< 0.4

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Oct-06-2014	112	22.0	1,323	< 0.4
Oct-07-2014	110	21.6	1,248	< 0.4
Oct-08-2014	111	21.3	1,259	< 0.4
Oct-09-2014	132	20.8	1,242	< 0.4
Oct-10-2014	135	20.4	1,174	< 0.4
Oct-11-2014	117	20.7	1,146	< 0.4
Oct-12-2014	101	20.0	1,176	< 0.4
Oct-13-2014	103	19.5	1,260	< 0.4
Oct-14-2014	108	20.1	1,384	< 0.4
Oct-15-2014	108	20.0	1,464	< 0.4
Oct-16-2014	110	19.4	1,523	< 0.4
Oct-17-2014	118	19.1	1,552	< 0.4
Oct-18-2014	122	19.1	1,520	< 0.4
Oct-19-2014	127	19.4	1,488	0.4
Oct-20-2014	138	19.6	1,385	< 0.4
Oct-21-2014	142	18.3	1,254	< 0.4
Oct-22-2014	148	17.3	1,205	< 0.4 T
Oct-23-2014	184	18.0	1,183	< 0.4
Oct-24-2014	233	18.3	1,054	< 0.4
Oct-25-2014	276	18.3	937	< 0.4
Oct-26-2014	351	17.4	818	< 0.4
Oct-27-2014	524	16.7	687	< 0.4
Oct-28-2014	711	16.6	562	< 0.4
Oct-29-2014	850	16.8	472	< 0.4
Oct-30-2014	877	17.1	426	< 0.4
Oct-31-2014	799	17.2	399	< 0.4
Nov-01-2014	703	16.9	398	< 0.4
Nov-02-2014	569	16.1	425	< 0.4
Nov-03-2014	507	15.4	477	< 0.4
Nov-04-2014	471	15.1	511	< 0.4
Nov-05-2014	458	15.3	559	< 0.4
Nov-06-2014	455	15.5	736	0.7
Nov-07-2014	430	15.8	779	
Nov-08-2014	408	16.1	808	
Nov-09-2014	387	16.3	841	
Nov-10-2014	370	16.4	855	
Nov-11-2014	358	16.1	853	
Nov-12-2014	342	16.4	850	
Nov-13-2014	333	16.4	833	
Nov-14-2014	326	16.2	814	

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Nov-15-2014	322	15.8	791	
Nov-16-2014	317	14.4	780	
Nov-17-2014	310	13.1	787	
Nov-18-2014	309	12.7	803	
Nov-19-2014	304	13.2	807	
Nov-20-2014	301	13.7	812	
Nov-21-2014	297	13.8	851	
Nov-22-2014	291	13.8	848	< 0.4
Nov-23-2014	285	13.2	872	< 0.4
Nov-24-2014	276	12.3	876	< 0.4
Nov-25-2014	270	12.0	895	< 0.4
Nov-26-2014	279	11.9	941	< 0.4
Nov-27-2014	284	12.1	978	< 0.4
Nov-28-2014	282	12.0	926	< 0.4
Nov-29-2014	289	11.9	905	< 0.4
Nov-30-2014	308	12.0	900	< 0.4
Dec-01-2014	312	12.1	877	< 0.4
Dec-02-2014	332	12.3	885	< 0.4
Dec-03-2014	340	13.0	915	< 0.4
Dec-04-2014	349	14.4	968	< 0.4
Dec-05-2014	354	14.7	1,049	0.4
Dec-06-2014	357	14.9	1,276	0.9
Dec-07-2014	363	15.0	1,570	1.8
Dec-08-2014	381	14.6	1,460	1.7
Dec-09-2014	366	14.1	1,275	1.7
Dec-10-2014	346	13.9	1,144	0.9
Dec-11-2014	354	13.5	1,072	0.7
Dec-12-2014	570	13.0	882	< 0.4
Dec-13-2014	616	12.4	929	0.4
Dec-14-2014	690	11.7	984	0.6
Dec-15-2014	756	11.2	1,105	0.9
Dec-16-2014	955	11.3	1,161	1.2
Dec-17-2014	1,014	12.0	1,163	1.5
Dec-18-2014	956	12.4	1,236	1.8
Dec-19-2014	917	12.3	1,294	2.0
Dec-20-2014	864	12.4	1,368	2.2
Dec-21-2014	826	13.0	1,474	2.3
Dec-22-2014	792	13.6	1,546	2.2
Dec-23-2014	757	13.4	1,573	2.0
Dec-24-2014	719	13.0	1,580	2.1

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Dec-25-2014	687	11.4	1,585	2.1
Dec-26-2014	650	9.8	1,605	2.0
Dec-27-2014	612	9.2	1,621	2.3
Dec-28-2014	579	9.2	1,639	2.1
Dec-29-2014	551	9.2	1,640	2.0
Dec-30-2014	526	9.0	1,644	2.1
Dec-31-2014	497	6.9	1,643	1.8

Notes:
March 6 -21 Autosampler Malfunction (No Samples collected)

Table 11b. Monthly Averages and Totals

PARAMETER	Total Flow	Average Temperature	Average Specific Conductance	Average Selenium
DATA SOURCE	Calculated	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm	µg/L
Jan-14	22,200	10.13	1,616	0.74
Feb-14	22,450	13.46	1,765	1.33
Mar-14	22,480	17.26	2,111	1.10
Apr-14	21,730	20.13	1,705	0.45
May-14	11,060	22.81	1,851	0.70
Jun-14	6,040	25.05	1,882	0.77
Jul-14	4,200	26.54	1,704	0.75
Aug-14	4,080	25.37	1,499	0.55
Sep-14	5,560	23.66	1,323	0.45
Oct-14	14,580	19.40	1,166	0.41
Nov-14	21,500	14.40	784	0.67
Dec-14	36,470	12.22	1,296	1.60

Notes:

Table 11b. Water quality monitoring in the San Joaquin River at Crows Landing (Station N)

	Physicals							
PARAMETER	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity	Selenium	Boron	Molybdenum
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	µg/L	mg/L	mg/L
Jan-03-2014	12.7	8.1	1,500	7.6	11.3	0.6		
Jan-09-2014	12.1	8.0	1,609	9.4	11.9	0.5		
Jan-14-2014	15.9	8.0	1,637	7.8	9.0	0.4		
Jan-23-2014	13.4	8.0	1,839	8.5	12.1	0.8		
Feb-07-2014	9.2	7.5	1,178	10.0	19.3	1.1	1.3	
Feb-14-2014	9.1	8.0	1,731	14.0	27.8	1.5	1.3	
Feb-21-2014	10.2	7.9	2,211	13.0	18.5	2.4 U	1.8	
Feb-27-2014	10.0	7.9	1,896	15.3	21.3	1.0	1.1	
Mar-06-2014	9.5	8.0	2,201	18.2	33.7	2.26 U	1.7	
Mar-14-2014	10.5	8.1	2,157	16.2	33.0	0.9	1.5	8.8
Mar-21-2014	11.6	8.2	2,481	17.9		0.7	1.7	
Apr-04-2014	11.8	8.0	2,006	16.8		0.4	1.3	
Apr-11-2014	10.1	8.0	1,816	22.5	28.8	0.6	1.1	5.9
Apr-18-2014	8.8	7.8	2,221	20.2	32.3	0.4	1.2	
Apr-30-2014	14.8	8.3	1,028	27.7	22.9	< 0.4	0.7	
May-08-2014	12.6	8.1	2,025	20.0	16.2	1.2	1.2	7.5
May-16-2014	13.2	8.1	2,113	21.8	14.7	0.7	1.1	
May-23-2014	11.7	8.5	1,802	25.7	20.6	0.5	0.8	
May-30-2014	15.6	8.2	1,742	23.9		0.5	1.1	
Jun-06-2014	18.0	8.0	1,781	26.6	22.9	0.6	0.8	
Jun-13-2014	9.3	8.6	1,573	24.2		0.4	0.6	
Jun-20-2014	13.4	8.1	2,023	23.4	20.7	0.5	1.1	
Jun-26-2014	18.0	8.4	2,117	24.2	22.9	1.3	1.5	7.9
Jul-02-2014		8.4	2,050	27.0	46.3	1.7	1.2	
Jul-11-2014	7.7	8.1	1,733	27.0	35.8	0.7	1.0	
Jul-18-2014	8.2	8.2	1,616	26.1	80.3	0.6	0.8	
Jul-25-2014	8.4	8.0	1,557	26.9	27.2	0.5	0.8	
Jul-31-2014	7.7	8.3	1,851	28.8		0.8	1.0	6.2
Aug-07-2014	7.1	7.7	1,695	25.8	21.7	0.6	0.9	
Sep-04-2014	9.4	7.8	1,306	24.4	15.4	< 0.4	0.5	5.6
Sep-19-2014	10.1	7.9	1,870	27.1	9.7	< 0.4	0.5	
Sep-26-2014	11.4	7.8	1,092	23.0	10.5	< 0.4	0.4	
Oct-03-2014	12.2	7.8	1,364	20.7		< 0.4	0.5	
Oct-10-2014	13.7	7.8	1,108	21.7	17.6	< 0.4	0.4	
Oct-17-2014		8.0	1,543	19.4	13.5	< 0.4	0.5	
Nov-07-2014	10.5	8.5	818	16.3	12.0	0.7	0.8	
Nov-14-2014	9.0	7.8	796	16.4	8.8	0.6	0.5	
Nov-21-2014	9.3	7.8	859	13.7	7.5	< 0.4	0.6	
Nov-28-2014	10.9	7.8	926	12.1	4.9	< 0.4	0.7	
Dec-05-2014	7.8	7.7	1,062	14.6	13.7	0.5	0.9	
Dec-12-2014		7.6	833	13.1	159.0	< 0.4	0.5	
Dec-23-2014		7.7	1,660	13.3	23.8	1.9	1.8	
Dec-30-2014	10.9	7.8	1,712	9.0	12.8	1.99	2.7	

Notes:

	Nutrients				
PARAMETER	Nitrates as N (Dissolved)	Total ammonia	Total Kjeldahl Nitrogen	Total phosphorous	Ortho-phosphate as P
DATA SOURCE	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	mg/L	mg/L	mg/L	mg/L
Jan-09-2014					
Feb-27-2014					
Mar-26-2014					
Apr-25-2014					
May-08-2014	1.6	<0.05	0.90	0.18 T	0.02
Jun-26-2014	3.4	<0.5	1.80	0.3	<0.05
Jul-31-2014	2.5	0.27 V	1.10	0.29	0.11
Sep-04-2015	6.5 U	0.10	0.96	0.29 T	0.20 T
Oct-31-2014					
Dec-16-2014					

Notes:

Table 12. Summary of fathead minnow (*Pimephales promelas*) larvae survival in 7-day tests using water samples collected from July 2010 to June 2011. Each value is the mean of 4 replicates with 10 fish in each replicate.

See Table 19 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%	%
Mar-2014	90	93	98	93	73	95
Jun-2014	95	98	88	98	95	95
Sep-2014	5*	95	98	88*	100	93
Dec-2014						

Table 13. Summary of fathead minnow (*Pimephales promelas*) larvae growth in 7-day tests using water samples collected from July 2010 to June 2011. Each value is the mean of 4 replicates with 10 fish in each replicate.

See Table 19 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	mg	mg	mg	mg	mg	mg
Mar-2014	0.84	0.70	0.78	0.68	0.74	0.74
Jun-2014	0.67	0.62	0.75	0.83	0.62	0.67
Sep-2014	0.01*	0.65	0.58	0.63	0.61	0.58
Dec-2014						

Table 14. Summary of *Daphnia magna* survival in 7-day tests using water samples collected from July 2010 to June 2011. Each value is the mean of 10 replicates with 1 animal in each replicate.

See Table 19 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%	%
Mar-2014	100	90	100	100	100	100
Jun-2014	100	100	90	20*	90	80
Sep-2014	0*	100	100	100	100	100
Dec-2014						

Table 15. Summary of *Daphnia magna* reproduction in 7-day tests using water samples collected from July 2010 to June 2011. Each value is the mean of 10 replicates with 1 animal in each replicate.

See Table 19 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	female	female	female	female	female	female
Mar-2014	67.4*	72.3	86.9	88.8	85.0	82.9
Jun-2014	72.4*	88.1	53.1*	41.7*	68.8	61.3
Sep-2014	0*	17.9	16.6	23.2	21.3	16.1
Dec-2014						

Table 16. Summary of *Selenastrum capricornutum* growth in 4-day tests using water samples collected from July 2010 to June 2011. Each value is the mean of 4 replicates.

See Table 19 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	10^5 cells/mL	10^5 cells/mL	10^5 cells/mL	10^5 cells/mL	10^5 cells/mL	10^5 cells/mL
Mar-2014	4.2*	7.2	7.9	7.7	7.3	4.1
Jun-2014	2.2*		2.8*	5.4*	6.2	4.2
Sep-2014		5.5	4.8	6.0	4.9	2.8
Dec-2014						

Table 17. Summary of selenium concentrations in grab water samples collected at study stations for use in laboratory toxicity tests

See Table 19 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal
DATA SOURCE	SLDMWA/USBR	SLDMWA/USBR	SLDMWA/USBR	SLDMWA/USBR	SLDMWA/USBR
UNITS	µg/L	µg/L	µg/L	µg/L	µg/L
3/17/2014	18	<0.8	1.3	0.5	<0.4
3/19/2014	18	<0.8	1.5	0.5	<0.4
3/21/2014	18	<0.8	1.7	0.4	<0.4
6/9/2014	16	<0.8	7.2	<0.4	<0.4
6/11/2014	15	<0.8	3.3	<0.4	<0.4
6/13/2014	15	<0.8	10.9	<0.4	<0.4
9/15/2014	8	<0.4	<0.8	<0.4	<0.4
9/17/2014	8	<0.4	<0.8	<0.4	<0.4
9/19/2014	10	<0.4	<0.8	<0.4	<0.4
Dec-2014					

Table 18. Summary of total suspended solids concentrations in grab water samples collected at study stations for use in laboratory toxicity tests

See Table 19 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	mg/L	mg/L	mg/L	mg/L	mg/L
3/17/2014	87**	61	79	60	6.0
3/19/2014	<5.0 T,V **	69 T,V	62 T,V	62 T,V	5.8 T,V
3/21/2014	46	64	59	58	6.0
6/9/2014	50 T	58 T	31 T	24 T	<0.5 T
6/11/2014	51 T	49	16 T	110	23
6/13/2014	47	39	57	<0.5 T	<0.5 T
9/15/2014	57 T	8.3 T	9.5 T	26 T	<0.5 T
9/17/2014	95 T	<5.0 T	14 T	26 T	<0.5 T
9/19/2014	36	7	6	34	<0.5
Dec-2014					

Table 19. Explanations of footnotes and agency abbreviations.

Agency	
CVRWQCB	California Regional Water Quality Control Board, Central Valley Region
SLDMWA	San Luis & Delta-Mendota Water Authority
USBR	U.S. Bureau of Reclamation
USGS	U.S. Geological Survey
GWD	Grassland Water District
WSJRWC	Westside San Joaquin River Watershed Coalition

Water Quality Monitoring	
e	Estimated value
.	Not applicable
<	Less than MDL
D	Sample was dechlorinated
G	Data from records of the Grassland Water District.
H	Result may have high bias
J	Result is between the MDL and RL
L	Result may have low bias,
MDL	Minimum detection level
	Not analyzed - operator error, data will not be available in the future
NP	Not Provided. Data may be available in the future.
NT	Not tested
P	Pending, data not available at this time but will be available in the future
RL	Reporting level
T	Result obtained past the holding time
U	Result determined to be an outlier at the time of data validation
V	Result may vary excessively from the true value
UA3	Use Agreement for Continued Use of the San Luis Drain January 2010 - December 2019

Toxicity	
*	Significantly reduced from Delta Mendota Canal ($p<0.05$)
**	Sample re-analyzed and result confirmed.
L	Result may be biased low. Sample was not preserved in the field
†	DMC water failed to meet the survival (>80%) acceptability criteria.
†††	DMC water failed to meet the reproduction (>10 neonates/adult) acceptability criteria.
††††	DMC water failed to meet minimum growth (10^6cell/mL) acceptability criteria.
‡	Control value exceeds suggested maximum variance (20%) acceptability criteria.
‡‡	Fungal growth observed on test organisms.
‡‡‡	Failed cell density requirement of 1E6 cells.
#	New testing laboratory with reporting limit of 0.4 µg/L as of June 1998.
v	Based on definitive bioassay, NOEC is 50 percent