

GRASSLAND BYPASS PROJECT MONTHLY DATA REPORT



2016

A Cooperative Effort By:

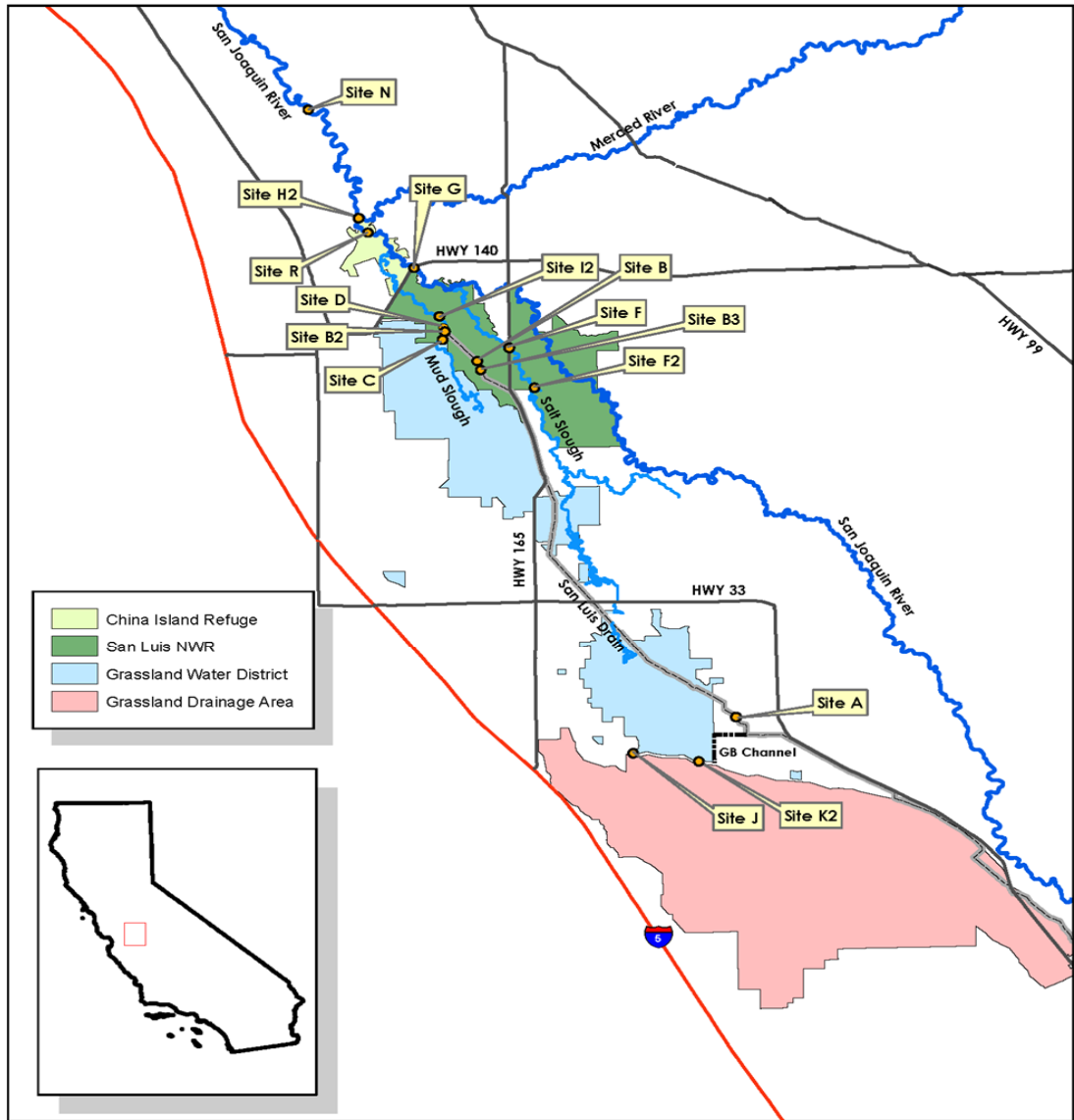
United States Bureau of Reclamation
Central Valley Regional Water Quality Control Board
United States Fish and Wildlife Service
National Marine Fisheries Service
California Department of Fish and Wildlife
San Luis and Delta-Mendota Water Authority
United States Environmental Protection Agency
United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

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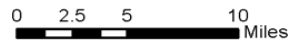
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Figure 1: Map of the Grassland Bypass Project area and sampling locations



Grassland Bypass Project

Monitoring Sites



Grassland Bypass Project
 NAD 1983 California Zone 10
 U.S. Bureau of Reclamation

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-01-2016	12.0	23.8					9,030.0	216.3
Jan-02-2016	12.1	23.9					9,030.0	217.2
Jan-03-2016	11.0	21.8					9,030.0	198.0
Jan-04-2016	12.2	24.2					9,030.0	219.9
Jan-05-2016	21.4	42.5					9,030.0	385.6
Jan-06-2016	37.2	73.7	0.0269	17.2	9,030.0	7,300.0	9,030.0	669.3
Jan-07-2016	45.9	91.0					7,750.0	709.2
Jan-08-2016	33.2	65.8					7,750.0	512.7
Jan-09-2016	23.4	46.4					7,750.0	361.6
Jan-10-2016	13.9	27.6					7,750.0	215.4
Jan-11-2016	11.7	23.2					7,750.0	181.1
Jan-12-2016	13.3	26.5					7,750.0	206.2
Jan-13-2016	17.3	34.4	0.0171	15.4	7,750.0	7,890.0	7,750.0	267.8
Jan-14-2016	8.1	16.2					7,720.0	125.4
Jan-15-2016	8.1	16.1					7,720.0	125.4
Jan-16-2016	8.4	16.6					7,720.0	128.8
Jan-17-2016	8.4	16.6					7,720.0	128.8
Jan-18-2016	18.1	35.9					7,720.0	278.4
Jan-19-2016	43.5	86.3					7,720.0	669.7
Jan-20-2016	82.3	163.3	0.0216	13.8	7,720.0	5,050.0	7,720.0	1,268.0
Jan-21-2016	54.2	107.4					5,180.0	559.7
Jan-22-2016	43.0	85.3					5,180.0	444.2
Jan-23-2016	63.7	126.4					5,180.0	658.3
Jan-24-2016	45.0	89.3					5,180.0	464.9
Jan-25-2016	36.8	73.0					5,180.0	380.1
Jan-26-2016	35.5	70.5					5,180.0	367.2
Jan-27-2016	35.0	69.5	0.0218	9.2	5,180.0	4,729.0	5,180.0	361.8
Jan-28-2016	29.4	58.3					4,330.0	253.8
Jan-29-2016	24.1	47.8					4,330.0	208.1
Jan-30-2016	25.6	50.9					4,330.0	221.5
Jan-31-2016	45.3	89.9					4,330.0	391.6
Feb-01-2016	73.2	145.1					4,330.0	632.0
Feb-02-2016	47.0	93.2					4,330.0	405.8
Feb-03-2016	42.8	84.9	0.0273	7.4	4,330.0	4,106.0	4,330.0	369.9
Feb-04-2016	39.0	77.3					7,880.0	612.7
Feb-05-2016	29.2	57.9					7,880.0	458.8
Feb-06-2016	29.5	58.5					7,880.0	463.4
Feb-07-2016	24.1	47.9					7,880.0	379.6
Feb-08-2016	17.4	34.4					7,880.0	272.8
Feb-09-2016	18.4	36.5					7,880.0	289.4
Feb-10-2016	20.7	41.2	0.0420	14.1	7,880.0	7,490.0	7,880.0	326.1
Feb-11-2016	18.2	36.1					6,640.0	241.3
Feb-12-2016	0.0	0.0						0.0
Feb-13-2016	0.0	0.0						0.0
Feb-14-2016	0.0	0.0						0.0
Feb-15-2016	0.0	0.0						0.0
Feb-16-2016	0.0	0.0						0.0
Feb-17-2016	0.0	0.0						0.0
Feb-18-2016	0.0	0.0						0.0
Feb-19-2016	0.0	0.0						0.0
Feb-20-2016	0.0	0.0						0.0
Feb-21-2016	0.0	0.0						0.0
Feb-22-2016	0.0	0.0						0.0
Feb-23-2016	0.0	0.0						0.0
Feb-24-2016	0.0	0.0						0.0
Feb-25-2016	0.0	0.0						0.0
Feb-26-2016	0.0	0.0						0.0
Feb-27-2016	0.0	0.0						0.0
Feb-28-2016	0.2	0.4					4,260.0	1.8
Feb-29-2016	0.1	0.1					4,260.0	0.5
Mar-01-2016	0.0	0.0						0.0
Mar-02-2016	0.0	0.0						0.0
Mar-03-2016	0.0	0.0						0.0
Mar-04-2016	0.0	0.1					5,450.0	0.3
Mar-05-2016	70.9	140.7					5,450.0	770.9
Mar-06-2016	102.5	203.3					5,450.0	1,114.2
Mar-07-2016	80.8	160.2					5,450.0	878.3
Mar-08-2016	81.0	160.7					5,450.0	880.7
Mar-09-2016	53.0	105.1	0.0221	12.4	6,980.0		5,450.0	576.2
Mar-10-2016	48.9	97.0					5,580.0	544.3
Mar-11-2016	40.0	79.4					5,580.0	445.5
Mar-12-2016	38.3	75.9					5,580.0	425.9
Mar-13-2016	29.3	58.1					5,580.0	325.9
Mar-14-2016	84.5	167.7					5,580.0	940.9
Mar-15-2016	63.2	125.3					5,580.0	703.3
Mar-16-2016	27.6	54.7	0.0267	9.2	5,580.0	5,450.0	5,580.0	306.9
Mar-17-2016	15.4	30.6					4,890.0	150.7
Mar-18-2016	9.1	18.0					4,890.0	88.7
Mar-19-2016	4.5	8.9					4,890.0	43.7
Mar-20-2016	0.2	0.5					4,890.0	2.3
Mar-21-2016	0.0	0.0						0.0
Mar-22-2016	0.0	0.0						0.0
Mar-23-2016	0.0	0.0						0.0
Mar-24-2016	0.0	0.0						0.0
Mar-25-2016	0.0	0.0						0.0
Mar-26-2016	0.0	0.0						0.0
Mar-27-2016	0.0	0.0						0.0
Mar-28-2016	0.0	0.0						0.0
Mar-29-2016	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
Mar-30-2016	0.0	0.0						0.0
Mar-31-2016	0.0	0.0						0.0
Apr-01-2016	6.0	11.8					4,650.0	55.3
Apr-02-2016	8.5	16.8	0.0028	6.8	4,650.0		4,650.0	78.7
Apr-03-2016	7.8	15.5					7,450.0	115.8
Apr-04-2016	8.0	15.9					7,450.0	118.8
Apr-05-2016	10.1	20.0					7,450.0	149.6
Apr-06-2016	10.7	21.2	0.0403	12.0	7,450.0	7,100.0	7,450.0	158.9
Apr-07-2016	9.8	19.5					6,570.0	128.8
Apr-08-2016	9.8	19.5					6,570.0	128.6
Apr-09-2016	51.6	102.4					6,570.0	676.8
Apr-10-2016	77.7	154.2					6,570.0	1,018.6
Apr-11-2016	19.0	37.7					6,570.0	249.3
Apr-12-2016	0.3	0.5					6,570.0	3.3
Apr-13-2016	0.8	1.5	0.0344	11.1	6,570.0	5,700.0	6,570.0	9.8
Apr-14-2016	0.0	0.0						0.0
Apr-15-2016	0.6	1.1					4,600.0	5.1
Apr-16-2016	0.0	0.0						0.0
Apr-17-2016	0.0	0.0						0.0
Apr-18-2016	0.2	0.4					4,600.0	1.6
Apr-19-2016	0.0	0.0					4,600.0	0.1
Apr-20-2016	0.0	0.0						0.0
Apr-21-2016	0.0	0.0						0.0
Apr-22-2016	0.2	0.3					4,500.0	1.6
Apr-23-2016	0.0	0.0						0.0
Apr-24-2016	0.0	0.0						0.0
Apr-25-2016	0.0	0.0						0.0
Apr-26-2016	0.0	0.0						0.0
Apr-27-2016	0.0	0.0						0.0
Apr-28-2016	0.0	0.0						0.0
Apr-29-2016	0.0	0.0						0.0
Apr-30-2016	0.0	0.0						0.0
May-01-2016	0.0	0.0						0.0
May-02-2016	0.0	0.0						0.0
May-03-2016	0.0	0.0						0.0
May-04-2016	0.0	0.0						0.0
May-05-2016	5.2	10.4					6,200.0	64.8
May-06-2016	91.8	182.1					6,200.0	1,135.2
May-07-2016	70.1	139.0					6,200.0	866.5
May-08-2016	43.2	85.6					6,200.0	533.7
May-09-2016	30.5	60.5					6,200.0	377.4
May-10-2016	26.9	53.3					6,200.0	332.2
May-11-2016	15.1	30.0	0.0130			6,200.0	6,200.0	187.1
May-12-2016	8.9	17.6					5,850.0	103.6
May-13-2016	7.0	13.9					5,850.0	81.6
May-14-2016	5.0	9.9					5,850.0	58.5
May-15-2016	2.0	3.9					5,850.0	23.1
May-16-2016	0.0	0.0						0.0
May-17-2016	0.0	0.0						0.0
May-18-2016	0.1	0.1	0.0119	11.1	5,850.0	5,660.0	5,850.0	0.9
May-19-2016	0.1	0.3					6,620.0	1.7
May-20-2016	0.0	0.0					6,620.0	0.2
May-21-2016	0.0	0.0						0.0
May-22-2016	0.0	0.0						0.0
May-23-2016	0.0	0.0						0.0
May-24-2016	0.0	0.0						0.0
May-25-2016	0.0	0.0						0.0
May-26-2016	0.0	0.0						0.0
May-27-2016	0.0	0.0						0.0
May-28-2016	0.0	0.0						0.0
May-29-2016	0.0	0.0						0.0
May-30-2016	0.0	0.0						0.0
May-31-2016	0.0	0.0						0.0
Jun-01-2016	0.0	0.0						0.0
Jun-02-2016	0.0	0.0						0.0
Jun-03-2016	0.0	0.0						0.0
Jun-04-2016	0.0	0.0						0.0
Jun-05-2016	0.0	0.0						0.0
Jun-06-2016	0.0	0.0						0.0
Jun-07-2016	0.0	0.0						0.0
Jun-08-2016	0.3	0.5	0.0062	22.1	7,570.0	7,280.0	7,570.0	4.1
Jun-09-2016	0.5	1.0					6,700.0	6.4
Jun-10-2016	0.3	0.5					6,700.0	3.5
Jun-11-2016	0.2	0.4					6,700.0	2.8
Jun-12-2016	0.3	0.6					6,700.0	4.2
Jun-13-2016	0.1	0.2					6,700.0	1.2
Jun-14-2016	0.0	0.1					6,700.0	0.7
Jun-15-2016	0.0	0.0						0.0
Jun-16-2016	0.0	0.0						0.0
Jun-17-2016	0.0	0.0						0.0
Jun-18-2016	0.0	0.0						0.0
Jun-19-2016	0.0	0.0						0.0
Jun-20-2016	0.0	0.0						0.0
Jun-21-2016	0.0	0.0						0.0
Jun-22-2016	0.0	0.0						0.0
Jun-23-2016	0.0	0.0						0.0
Jun-24-2016	0.0	0.0						0.0
Jun-25-2016	0.0	0.0						0.0
Jun-26-2016	0.0	0.0						0.0
Jun-27-2016	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
Jun-28-2016	0.0	0.0						0.0
Jun-29-2016	0.0	0.0						0.0
Jun-30-2016	0.0	0.0						0.0
Jul-01-2016	0.0	0.0						0.0
Jul-02-2016	0.0	0.0						0.0
Jul-03-2016	0.0	0.0						0.0
Jul-04-2016	0.0	0.0						0.0
Jul-05-2016	0.0	0.0						0.0
Jul-06-2016	0.0	0.0						0.0
Jul-07-2016	0.0	0.0						0.0
Jul-08-2016	0.0	0.0						0.0
Jul-09-2016	0.0	0.0						0.0
Jul-10-2016	0.0	0.0						0.0
Jul-11-2016	0.0	0.0						0.0
Jul-12-2016	0.0	0.0						0.0
Jul-13-2016	0.0	0.0						0.0
Jul-14-2016	0.0	0.0						0.0
Jul-15-2016	0.0	0.0						0.0
Jul-16-2016	0.0	0.0						0.0
Jul-17-2016	0.0	0.0						0.0
Jul-18-2016	0.0	0.0						0.0
Jul-19-2016	0.0	0.0						0.0
Jul-20-2016	0.0	0.0						0.0
Jul-21-2016	0.0	0.0						0.0
Jul-22-2016	0.0	0.0						0.0
Jul-23-2016	0.0	0.0						0.0
Jul-24-2016	0.0	0.0						0.0
Jul-25-2016	0.0	0.0						0.0
Jul-26-2016	0.0	0.0						0.0
Jul-27-2016	0.0	0.0						0.0
Jul-28-2016	0.0	0.0						0.0
Jul-29-2016	0.0	0.0						0.0
Jul-30-2016	0.0	0.0						0.0
Jul-31-2016	0.0	0.0						0.0
Aug-01-2016	0.0	0.0						0.0
Aug-02-2016	0.0	0.0						0.0
Aug-03-2016	0.0	0.0						0.0
Aug-04-2016	0.0	0.0						0.0
Aug-05-2016	0.0	0.0						0.0
Aug-06-2016	0.0	0.0						0.0
Aug-07-2016	0.0	0.0						0.0
Aug-08-2016	0.0	0.0						0.0
Aug-09-2016	0.0	0.0						0.0
Aug-10-2016	0.0	0.0						0.0
Aug-11-2016	0.0	0.0						0.0
Aug-12-2016	0.0	0.0						0.0
Aug-13-2016	0.0	0.0						0.0
Aug-14-2016	0.0	0.0						0.0
Aug-15-2016	0.0	0.0						0.0
Aug-16-2016	0.0	0.0						0.0
Aug-17-2016	0.0	0.0						0.0
Aug-18-2016	0.0	0.0						0.0
Aug-19-2016	0.0	0.0						0.0
Aug-20-2016	0.0	0.0						0.0
Aug-21-2016	0.0	0.0						0.0
Aug-22-2016	0.0	0.0						0.0
Aug-23-2016	0.0	0.0						0.0
Aug-24-2016	0.0	0.0						0.0
Aug-25-2016	0.0	0.0						0.0
Aug-26-2016	0.0	0.0						0.0
Aug-27-2016	0.0	0.0						0.0
Aug-28-2016	0.0	0.0						0.0
Aug-29-2016	0.0	0.0						0.0
Aug-30-2016	0.0	0.0						0.0
Aug-31-2016	0.0	0.0						0.0
Sep-01-2016	0.0	0.0						0.0
Sep-02-2016	0.0	0.0						0.0
Sep-03-2016	0.0	0.0						0.0
Sep-04-2016	0.0	0.0						0.0
Sep-05-2016	0.0	0.0						0.0
Sep-06-2016	0.0	0.0						0.0
Sep-07-2016	0.0	0.0						0.0
Sep-08-2016	0.0	0.0						0.0
Sep-09-2016	0.0	0.0						0.0
Sep-10-2016	0.0	0.0						0.0
Sep-11-2016	0.0	0.0						0.0
Sep-12-2016	0.0	0.0						0.0
Sep-13-2016	0.0	0.0						0.0
Sep-14-2016	0.0	0.0						0.0
Sep-15-2016	0.0	0.0						0.0
Sep-16-2016	0.0	0.0						0.0
Sep-17-2016	0.0	0.0						0.0
Sep-18-2016	0.0	0.0						0.0
Sep-19-2016	0.0	0.0						0.0
Sep-20-2016	0.0	0.0						0.0
Sep-21-2016	0.0	0.0						0.0
Sep-22-2016	0.0	0.0						0.0
Sep-23-2016	0.0	0.0						0.0
Sep-24-2016	0.0	0.0						0.0
Sep-25-2016	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-26-2016	0.0	0.0						0.0
Sep-27-2016	0.0	0.0						0.0
Sep-28-2016	0.0	0.0						0.0
Sep-29-2016	0.0	0.0						0.0
Sep-30-2016	0.0	0.0						0.0
Oct-01-2016	0.0	0.0						0.0
Oct-02-2016	0.0	0.0						0.0
Oct-03-2016	0.0	0.0						0.0
Oct-04-2016	0.0	0.0					8,380.0	0.3
Oct-05-2016	0.3	0.5	0.0052	16.3	8,380.0	7,898.0	8,380.0	4.3
Oct-06-2016	0.3	0.7					8,480.0	5.7
Oct-07-2016	0.4	0.9					8,480.0	7.3
Oct-08-2016	0.0	0.0						0.0
Oct-09-2016	0.0	0.0						0.0
Oct-10-2016	0.0	0.0						0.0
Oct-11-2016	0.0	0.0						0.0
Oct-12-2016	0.0	0.0						0.0
Oct-13-2016	0.0	0.0						0.0
Oct-14-2016	0.0	0.0						0.0
Oct-15-2016	0.0	0.0						0.0
Oct-16-2016	0.0	0.0						0.0
Oct-17-2016	0.0	0.0						0.0
Oct-18-2016	0.0	0.0						0.0
Oct-19-2016	0.0	0.0						0.0
Oct-20-2016	0.0	0.0						0.0
Oct-21-2016	0.0	0.0						0.0
Oct-22-2016	0.0	0.0						0.0
Oct-23-2016	0.0	0.0						0.0
Oct-24-2016	0.0	0.0						0.0
Oct-25-2016	0.0	0.0						0.0
Oct-26-2016	0.0	0.0						0.0
Oct-27-2016	0.0	0.0						0.0
Oct-28-2016	14.7	29.1					8,760.0	256.7
Oct-29-2016	12.0	23.8					8,760.0	209.8
Oct-30-2016	1.3	2.6					8,760.0	22.9
Oct-31-2016	0.3	0.6					8,760.0	5.0
Nov-01-2016	0.0	0.0					8,760.0	0.2
Nov-02-2016	0.0	0.0						0.0
Nov-03-2016	0.0	0.0						0.0
Nov-04-2016	0.0	0.0						0.0
Nov-05-2016	0.0	0.0						0.0
Nov-06-2016	0.0	0.0						0.0
Nov-07-2016	0.2	0.3					9,010.0	3.0
Nov-08-2016	0.3	0.6					9,010.0	5.9
Nov-09-2016	0.3	0.6	0.0097	17.9	9,010.0	8,340.0	9,010.0	5.3
Nov-10-2016	0.3	0.6					9,460.0	5.5
Nov-11-2016	0.3	0.5					9,460.0	5.2
Nov-12-2016	0.3	0.6					9,460.0	5.4
Nov-13-2016	0.1	0.2					9,460.0	1.6
Nov-14-2016	0.0	0.0						0.0
Nov-15-2016	0.0	0.0						0.0
Nov-16-2016	0.0	0.0						0.0
Nov-17-2016	0.0	0.0						0.0
Nov-18-2016	0.0	0.0						0.0
Nov-19-2016	0.0	0.0						0.0
Nov-20-2016	0.0	0.0						0.0
Nov-21-2016	20.4	40.4					8,970.0	364.8
Nov-22-2016	14.6	29.0					8,970.0	261.7
Nov-23-2016	2.6	5.2	0.0139	17.7	8,970.0	8,210.0	8,970.0	46.8
Nov-24-2016	1.6	3.1					8,340.0	25.9
Nov-25-2016	1.6	3.1					8,340.0	26.0
Nov-26-2016	11.2	22.1					8,340.0	185.6
Nov-27-2016	36.5	72.5					8,340.0	607.9
Nov-28-2016	16.0	31.8					8,340.0	266.3
Nov-29-2016	1.6	3.2					8,340.0	26.6
Nov-30-2016	0.6	1.2	0.0171	15.6	8,340.0	8,050.0	8,340.0	10.1
Dec-01-2016	0.4	0.8					8,580.0	6.5
Dec-02-2016	0.0	0.1					8,580.0	0.5
Dec-03-2016	0.0	0.0						0.0
Dec-04-2016	0.0	0.0						0.0
Dec-05-2016	0.0	0.0						0.0
Dec-06-2016	0.0	0.0						0.0
Dec-07-2016	0.0	0.0						0.0
Dec-08-2016	3.3	6.5					8,410.0	54.9
Dec-09-2016	1.6	3.2					8,410.0	27.3
Dec-10-2016	0.7	1.3					8,410.0	11.3
Dec-11-2016	0.5	1.1					8,410.0	9.1
Dec-12-2016	0.4	0.8					8,410.0	7.0
Dec-13-2016	0.0	0.0					8,410.0	0.1
Dec-14-2016	6.4	12.8	0.0117		8,410.0		8,410.0	108.1
Dec-15-2016	35.2	69.8				7,860.0	8,980.0	630.2
Dec-16-2016	67.0	133.0					8,980.0	1,201.0
Dec-17-2016	39.9	79.1					8,980.0	714.6
Dec-18-2016	25.0	49.6					8,980.0	447.5
Dec-19-2016	12.2	24.2					8,980.0	218.9
Dec-20-2016	0.0	0.0						0.0
Dec-21-2016	0.0	0.0	0.0330	15.9	8,980.0			0.0
Dec-22-2016	10.0	19.8					8,880.0	177.0
Dec-23-2016	27.9	55.4					8,880.0	495.0
Dec-24-2016	29.5	58.5					8,880.0	522.1

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
Dec-25-2016	22.3	44.2					8,880.0	394.3
Dec-26-2016	17.0	33.8					8,880.0	302.0
Dec-27-2016	8.3	16.4					8,880.0	146.8
Dec-28-2016	0.0	0.0						0.0
Dec-29-2016	0.0	0.0						0.0
Dec-30-2016	0.0	0.0						0.0
Dec-31-2016	0.0	0.0						0.0

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 (Dry/Below Normal 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-16	28.4	1,743.8	0.0219	13.9	7,420	6,242	6,969	11,396	4,512
Feb-16	12.4	713.6	0.0347	10.7	6,105	5,798	6,408	4,454	7,141
Mar-16	24.2	1,486.1	0.0244	10.8	6,280	5,450	5,372	8,199	8,460
Apr-16	7.4	438.2	0.0258	10.0	6,223	6,400	6,082	2,901	6,226
May-16	9.9	606.6	0.0125	11.1	5,850	5,930	6,135	3,766	6,102
Jun-16	0.1	3.3	0.0062	22.1	7,570	7,280	6,824	23	6,312
Jul-16	0.0	0.0	N/A	NA	NA	NA	NA	NA	6,378
Aug-16	0.0	0.0	N/A	NA	NA	NA	NA	NA	5,660
Sep-16	0.0	0.0	N/A	NA	NA	NA	NA	NA	2,990
Oct-16	0.9	58.2	0.0052	16.3	8,380	7,898	8,595	512	2,296
Nov-16	3.6	215.0	0.0136	17.1	8,773	8,200	8,829	1,854	2,386
Dec-16	9.9	610.4	0.0224	15.9	8,695	7,860	8,711	5,474	2,636
Calendar Year Totals/Avgs:		5,875	0.018	14.2	7,255	6,784	7,103	38,579	61,099

NOTES: * Flow-weighted concentrations

**Table 2a. Water monitoring of San Luis Drain discharge into Mud Slough (north)
Terminus of drain at Mud Slough (Station B2) and San Luis Drain at 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-01-2016	13.7	27.2	0.0160	13.0	7,430.0	0.0160	7,430	1.2
Jan-02-2016	13.8	27.4	0.0161	12.4	7,140.0	0.0161	7,140	1.2
Jan-03-2016	15.0	29.7	0.0182	11.8	6,900.0	0.0182	6,900	1.5
Jan-04-2016	15.2	30.2	0.0166	12.2	7,150.0	0.0166	7,150	1.4
Jan-05-2016	18.6	36.9	0.0153	12.3	7,190.0	0.0153	7,190	1.5
Jan-06-2016	22.0	43.6	0.0149	11.8	6,620.0	0.0149	6,620	1.8
Jan-07-2016	40.8	80.9	0.0164	11.1	6,380.0	0.0164	6,380	3.6
Jan-08-2016	49.1	97.5	0.0194	12.5	6,880.0	0.0194	6,880	5.1
Jan-09-2016	37.4	74.1	0.0167	12.6	6,880.0	0.0167	6,880	3.4
Jan-10-2016	25.9	51.3	0.0213	12.1	6,520.0	0.0213	6,520	3.0
Jan-11-2016	18.2	36.1	0.0219	11.3	6,170.0	0.0219	6,170	2.2
Jan-12-2016	20.0	39.7	0.0248	11.2	6,290.0	0.0248	6,290	2.7
Jan-13-2016	11.7	23.3	0.0211	10.8	6,120.0	0.0211	6,120	1.3
Jan-14-2016	11.4	22.6	0.0196	10.7	6,170.0	0.0196	6,170	1.2
Jan-15-2016	17.0	33.7	0.0192	10.4	6,100.0	0.0192	6,100	1.8
Jan-16-2016	16.3	32.4	0.0243	8.7	5,310.0	0.0243	5,310	2.1
Jan-17-2016	15.5	30.8	0.0177	11.8	6,630.0	0.0177	6,630	1.5
Jan-18-2016	17.0	33.6	0.0148	10.4	6,030.0	0.0148	6,030	1.4
Jan-19-2016	20.4	40.4	0.0135	9.8	5,900.0	0.0135	5,900	1.5
Jan-20-2016	51.1	101.3	0.0152	12.6	6,760.0	0.0152	6,760	4.2
Jan-21-2016	84.4	167.5	0.0154	12.9	6,740.0	0.0154	6,740	7.0
Jan-22-2016	65.0	128.9	0.0141	9.0	4,890.0	0.0141	4,890	4.9
Jan-23-2016	56.7	112.5	0.0171	8.6	4,830.0	0.0171	4,830	5.2
Jan-24-2016	67.6	134.0	0.0173	8.5	4,970.0	0.0173	4,970	6.3
Jan-25-2016	47.3	93.9	0.0209	10.0	5,680.0	0.0209	5,680	5.3
Jan-26-2016	39.8	78.9	0.0153	10.7	6,030.0	0.0153	6,030	3.3
Jan-27-2016	39.9	79.2	0.0234	8.8	5,120.0	0.0234	5,120	5.0
Jan-28-2016	41.8	82.9	0.0197	9.0	5,110.0	0.0197	5,110	4.4
Jan-29-2016	46.9	93.0	0.0229	9.2	5,260.0	0.0229	5,260	5.8
Jan-30-2016	52.0	103.1	0.0286	10.0	5,770.0	0.0286	5,770	8.0
Jan-31-2016	47.7	94.6	0.0213	9.1	5,130.0	0.0213	5,130	5.5
Feb-01-2016	70.4	139.7	0.0212	8.6	5,000.0	0.0212	5,000	8.0
Feb-02-2016	75.6	150.0	0.0213	8.8	5,040.0	0.0213	5,040	8.7
Feb-03-2016	53.2	105.5	0.0236	7.9	5,010.0	0.0236	5,010	6.8
Feb-04-2016	48.6	96.4	0.0307	8.4	4,990.0	0.0307	4,990	8.0
Feb-05-2016	44.2	87.7	0.0281	7.7	4,720.0	0.0281	4,720	6.7
Feb-06-2016	34.8	69.0	0.0290	7.3	4,680.0	0.0290	4,680	5.4
Feb-07-2016	34.4	68.3	0.0279	6.9	4,420.0	0.0279	4,420	5.2
Feb-08-2016	29.6	58.8	0.0291	7.4	4,720.0	0.0291	4,720	4.7
Feb-09-2016	22.5	44.6	0.0313	7.9	5,100.0	0.0313	5,100	3.8
Feb-10-2016	22.9	45.5	0.0357	9.5	5,770.0	0.0357	5,770	4.4
Feb-11-2016	25.7	50.9	0.0406	9.8	5,770.0	0.0406	5,770	5.6
Feb-12-2016	25.4	50.3	0.0415	10.1	5,990.0	0.0415	5,990	5.7
Feb-13-2016	10.0	19.9	0.0420	9.9	6,100.0	0.0420	6,100	2.3
Feb-14-2016	7.2	14.3	0.0430	11.5	6,820.0	0.0430	6,820	1.7
Feb-15-2016	6.9	13.7	0.0434	12.7	7,290.0	0.0434	7,290	1.6
Feb-16-2016	6.7	13.3	0.0426	13.0	7,520.0	0.0426	7,520	1.5
Feb-17-2016	6.2	12.4	0.0406	13.8	7,530.0	0.0406	7,530	1.4
Feb-18-2016	5.0	9.9	0.0381	13.7	7,370.0	0.0381	7,370	1.0
Feb-19-2016	4.9	9.6	0.0362	12.8	7,130.0	0.0362	7,130	0.9
Feb-20-2016	4.5	8.9	0.0341	12.0	6,830.0	0.0341	6,830	0.8
Feb-21-2016	4.7	9.3	0.0328	11.7	6,640.0	0.0328	6,640	0.8
Feb-22-2016	5.1	10.2	0.0317	11.4	6,500.0	0.0317	6,500	0.9
Feb-23-2016	5.5	11.0	0.0308	11.3	6,530.0	0.0308	6,530	0.9
Feb-24-2016	5.5	10.9	0.0301	11.0	6,520.0	0.0301	6,520	0.9
Feb-25-2016	5.5	10.9	0.0295	10.9	6,510.0	0.0295	6,510	0.9
Feb-26-2016	5.5	11.0	0.0289	10.8	6,450.0	0.0289	6,450	0.9
Feb-27-2016	5.4	10.8	0.0278	10.5	6,300.0	0.0278	6,300	0.8
Feb-28-2016	5.4	10.8	0.0268	10.2	6,130.0	0.0268	6,130	0.8
Feb-29-2016	5.6	11.1	0.0263	9.6	5,840.0	0.0263	5,840	0.8
Mar-01-2016	5.8	11.6	0.0259	8.9	5,580.0	0.0259	5,580	0.8
Mar-02-2016	5.7	11.3	0.0238	8.1	5,120.0	0.0238	5,120	0.7
Mar-03-2016	5.5	11.0	0.0214	7.2	4,740.0	0.0214	4,740	0.6
Mar-04-2016	5.7	11.4	0.0186	6.7	4,380.0	0.0186	4,380	0.6
Mar-05-2016	7.7	15.3	0.0147	5.8	3,930.0	0.0147	3,930	0.6
Mar-06-2016	62.5	123.9	0.0079	4.3	2,980.0	0.0079	2,980	2.6
Mar-07-2016	99.1	196.6	0.0142	9.5	5,590.0	0.0142	5,590	7.6
Mar-08-2016	85.0	168.6	0.0217	9.5	5,640.0	0.0217	5,640	9.9
Mar-09-2016	78.8	156.3	0.0243	10.2	5,740.0	0.0243	5,740	10.3
Mar-10-2016	56.4	111.9	0.0210	10.0	5,590.0	0.0210	5,590	6.4
Mar-11-2016	50.3	99.7	0.0235	9.4	5,410.0	0.0235	5,410	6.4
Mar-12-2016	42.3	83.9	0.0278	9.1	5,500.0	0.0278	5,500	6.3
Mar-13-2016	41.0	81.3	0.0286	9.9	5,800.0	0.0286	5,800	6.3
Mar-14-2016	35.0	69.4	0.0249	10.3	5,890.0	0.0249	5,890	4.7
Mar-15-2016	78.5	155.7	0.0218	10.8	6,100.0	0.0218	6,100	9.2
Mar-16-2016	64.8	128.6	0.0174	10.4	5,780.0	0.0174	5,780	6.1
Mar-17-2016	32.8	65.1	0.0205	9.4	5,110.0	0.0205	5,110	3.6
Mar-18-2016	18.1	35.9	0.0221	9.5	5,320.0	0.0221	5,320	2.2
Mar-19-2016	14.1	28.0	0.0226	9.3	5,250.0	0.0226	5,250	1.7
Mar-20-2016	9.8	19.4	0.0218	8.8	5,080.0	0.0218	5,080	1.2
Mar-21-2016	7.1	14.2	0.0215	8.8	5,070.0	0.0215	5,070	0.8
Mar-22-2016	6.2	12.3	0.0217	8.8	5,130.0	0.0217	5,130	0.7
Mar-23-2016	5.8	11.5	0.0215	8.7	5,120.0	0.0215	5,120	0.7
Mar-24-2016	5.7	11.2	0.0216	8.9	5,110.0	0.0216	5,110	0.7
Mar-25-2016	5.5	10.9	0.0213	8.7	5,100.0	0.0213	5,100	0.6
Mar-26-2016	5.2	10.3	0.0208	8.7	5,050.0	0.0208	5,050	0.6
Mar-27-2016	5.2	10.2	0.0206	8.9	5,200.0	0.0206	5,200	0.6
Mar-28-2016	4.8	9.4	0.0198	8.8	5,170.0	0.0198	5,170	0.5

Table 2a. Water monitoring of San Luis Drain discharge into Mud Slough (north)
 Terminus of drain at Mud Slough (Station B2) and San Luis Drain at 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
Mar-29-2016	4.9	9.6	0.0193	8.8	5,220.0	0.0193	5,220	0.5
Mar-30-2016	4.9	9.7	0.0185	8.8	5,180.0	0.0185	5,180	0.5
Mar-31-2016	4.9	9.8	0.0174	8.6	5,160.0	0.0174	5,160	0.5
Apr-01-2016	4.8	9.5	0.0165	8.6	5,130.0	0.0165	5,130	0.4
Apr-02-2016	4.7	9.3	0.0158	8.4	5,060.0	0.0158	5,060	0.4
Apr-03-2016	6.7	13.3	0.0151	7.9	4,840.0	0.0151	4,840	0.5
Apr-04-2016	8.6	17.1	0.0142	7.3	4,630.0	0.0142	4,630	0.7
Apr-05-2016	8.1	16.0	0.0120	6.9	4,400.0	0.0120	4,400	0.5
Apr-06-2016	10.7	21.2	0.0102	6.7	4,400.0	0.0102	4,400	0.6
Apr-07-2016	11.6	22.9	0.0118	7.7	5,020.0	0.0118	5,020	0.7
Apr-08-2016	10.9	21.7	0.0096	7.4	4,810.0	0.0096	4,810	0.6
Apr-09-2016	15.0	29.8	0.0065	5.2	3,740.0	0.0065	3,740	0.5
Apr-10-2016	52.0	103.2	0.0139	12.3	7,190.0	0.0139	7,190	3.9
Apr-11-2016	75.0	148.7	0.0286	12.4	7,260.0	0.0286	7,260	11.6
Apr-12-2016	27.8	55.2	0.0259	12.0	6,770.0	0.0259	6,770	3.9
Apr-13-2016	7.4	14.7	0.0251			0.0251	6,390	1.0
Apr-14-2016	5.3	10.6	0.0250			0.0250	6,390	0.7
Apr-15-2016	3.9	7.7	0.0255			0.0255	6,390	0.5
Apr-16-2016	5.0	9.9	0.0250			0.0250	6,390	0.7
Apr-17-2016	4.9	9.8	0.0247			0.0247	6,390	0.7
Apr-18-2016	4.9	9.8	0.0245			0.0245	6,390	0.7
Apr-19-2016	4.5	8.9	0.0246			0.0246	6,390	0.6
Apr-20-2016	3.6	7.2	0.0228	10.6	6,010.0	0.0228	6,010	0.4
Apr-21-2016	3.2	6.3	0.0223	10.6	6,000.0	0.0223	6,000	0.4
Apr-22-2016	3.3	6.5	0.0218	10.7	6,060.0	0.0218	6,060	0.4
Apr-23-2016	3.0	6.0	0.0211	10.7	6,010.0	0.0211	6,010	0.3
Apr-24-2016	3.2	6.3	0.0211	10.6	6,000.0	0.0211	6,000	0.4
Apr-25-2016	2.4	4.7	0.0212	10.6	6,000.0	0.0212	6,000	0.3
Apr-26-2016	2.1	4.3	0.0219	11.1	6,240.0	0.0219	6,240	0.3
Apr-27-2016	2.5	4.9	0.0219			0.0219	6,140	0.3
Apr-28-2016	2.8	5.6	0.0219			0.0219	6,140	0.3
Apr-29-2016	2.4	4.7	0.0219			0.0219	6,140	0.3
Apr-30-2016	0.8	1.6	0.0219			0.0219	6,140	0.1
May-01-2016	1.4	2.8	0.0183		6,040.0	0.0183	6,040	0.1
May-02-2016	1.2	2.4	0.0183		6,040.0	0.0183	6,040	0.1
May-03-2016	1.1	2.2	0.0183		6,040.0	0.0183	6,040	0.1
May-04-2016	1.0	2.0	0.0183	11.4	6,040.0	0.0183	6,040	0.1
May-05-2016	0.7	1.4	0.0182	11.3	6,020.0	0.0182	6,020	0.1
May-06-2016	4.2	8.3	0.0182	11.4	6,020.0	0.0182	6,020	0.4
May-07-2016	83.2	165.1	0.0173	11.0	5,900.0	0.0173	5,900	7.8
May-08-2016	75.4	149.6	0.0088	8.2	4,830.0	0.0088	4,830	3.6
May-09-2016	45.8	90.8	0.0137	9.3	5,000.0	0.0137	5,000	3.4
May-10-2016	30.9	61.2	0.0165	9.2	4,860.0	0.0165	4,860	2.7
May-11-2016	26.8	53.1	0.0192	9.9	5,290.0	0.0192	5,290	2.8
May-12-2016	16.5	32.8	0.0190	9.7	5,270.0	0.0190	5,270	1.7
May-13-2016	8.8	17.4	0.0196	10.3	5,550.0	0.0196	5,550	0.9
May-14-2016	6.6	13.1	0.0193	11.2	5,760.0	0.0193	5,760	0.7
May-15-2016	6.1	12.1	0.0183	11.4	5,930.0	0.0183	5,930	0.6
May-16-2016	5.5	10.8	0.0183	11.8	6,050.0	0.0183	6,050	0.5
May-17-2016	5.0	9.9	0.0181	10.8	6,010.0	0.0181	6,010	0.5
May-18-2016	4.5	8.9	0.0176	11.9	6,190.0	0.0176	6,190	0.4
May-19-2016	3.1	6.1	0.0176	12.0	6,210.0	0.0176	6,210	0.3
May-20-2016	1.1	2.3	0.0183	11.7	6,180.0	0.0183	6,180	0.1
May-21-2016	0.6	1.1	0.0179	12.0	6,290.0	0.0179	6,290	0.1
May-22-2016	0.6	1.2	0.0174	12.1	6,250.0	0.0174	6,250	0.1
May-23-2016	1.2	2.3	0.0178	12.0	6,280.0	0.0178	6,280	0.1
May-24-2016	1.2	2.3	0.0163	11.8	6,240.0	0.0163	6,240	0.1
May-25-2016	1.1	2.1	0.0165	12.3	6,400.0	0.0165	6,400	0.1
May-26-2016	1.2	2.3	0.0158	11.7	6,380.0	0.0158	6,380	0.1
May-27-2016	1.0	1.9	0.0161	12.4	6,570.0	0.0161	6,570	0.1
May-28-2016	0.9	1.8	0.0148	12.3	6,470.0	0.0148	6,470	0.1
May-29-2016	1.0	2.1	0.0144	12.0	6,500.0	0.0144	6,500	0.1
May-30-2016	0.9	1.9	0.0142	11.8	6,460.0	0.0142	6,460	0.1
May-31-2016	0.8	1.5	0.0138	12.5	6,470.0	0.0138	6,470	0.1
Jun-01-2016	0.6	1.3	0.0130	13.2	6,670.0	0.0130	6,670	0.0
Jun-02-2016	0.5	0.9	0.0134	13.5	6,940.0	0.0134	6,940	0.0
Jun-03-2016	0.5	0.9	0.0125	12.9	6,740.0	0.0125	6,740	0.0
Jun-04-2016	0.4	0.9	0.0119	13.6	6,850.0	0.0119	6,850	0.0
Jun-05-2016	0.4	0.7	0.0117	12.9	6,840.0	0.0117	6,840	0.0
Jun-06-2016	0.3	0.7	0.0111	12.8	6,730.0	0.0111	6,730	0.0
Jun-07-2016	0.2	0.4	0.0112	13.1	6,850.0	0.0112	6,850	0.0
Jun-08-2016	0.2	0.4	0.0117	14.1	7,130.0	0.0117	7,130	0.0
Jun-09-2016	0.2	0.4	0.0107	14.2	7,150.0	0.0107	7,150	0.0
Jun-10-2016	0.1	0.1	0.0103	14.0	7,130.0	0.0103	7,130	0.0
Jun-11-2016	0.0	0.0	0.0104	14.4	7,140.0	0.0104	7,140	0.0
Jun-12-2016	0.0	0.0	0.0112	13.8	7,110.0	0.0112	7,110	0.0
Jun-13-2016	0.0	0.0	0.0109	14.1	7,140.0	0.0109	7,140	0.0
Jun-14-2016	0.0	0.0	0.0108	13.9	7,140.0	0.0108	7,140	0.0
Jun-15-2016	0.0	0.0	0.0104	14.9	7,340.0	0.0104	7,340	0.0
Jun-16-2016	0.0	0.0	0.0106	15.8	7,490.0	0.0106	7,490	0.0
Jun-17-2016	0.0	0.0	0.0096	15.7	7,360.0	0.0096	7,360	0.0
Jun-18-2016	0.0	0.0	0.0099	15.9	7,400.0	0.0099	7,400	0.0
Jun-19-2016	0.0	0.0	0.0099	15.5	7,430.0	0.0099	7,430	0.0
Jun-20-2016	0.0	0.0	0.0099	15.2	7,420.0	0.0099	7,420	0.0
Jun-21-2016	0.0	0.0	0.0102	15.3	7,410.0	0.0102	7,410	0.0
Jun-22-2016	0.0	0.0	0.0105	14.9	7,900.0	0.0105	7,900	0.0
Jun-23-2016	0.0	0.0	0.0091	14.4	7,700.0	0.0091	7,700	0.0
Jun-24-2016	0.0	0.0	0.0095	14.7	7,750.0	0.0095	7,750	0.0

Table 2a. Water monitoring of San Luis Drain discharge into Mud Slough (north)
 Terminus of drain at Mud Slough (Station B2) and San Luis Drain at 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
Jun-25-2016	0.0	0.0	0.0103	15.3	7,950.0	0.0103	7,950	0.0
Jun-26-2016	0.0	0.0	0.0100	14.9	7,800.0	0.0100	7,800	0.0
Jun-27-2016	0.0	0.0	0.0101	15.3	7,980.0	0.0101	7,980	0.0
Jun-28-2016	0.0	0.0	0.0102	15.0	7,950.0	0.0102	7,950	0.0
Jun-29-2016	0.0	0.0	0.0091	15.4	8,110.0	0.0091	8,110	0.0
Jun-30-2016	0.0	0.0	0.0094	15.9	8,340.0	0.0094	8,340	0.0
Jul-01-2016	0.0	0.0	0.0088	15.6	8,120.0	0.0088	8,120	0.0
Jul-02-2016	0.0	0.0	0.0086	15.7	8,220.0	0.0086	8,220	0.0
Jul-03-2016	0.0	0.0	0.0091	16.2	8,360.0	0.0091	8,360	0.0
Jul-04-2016	0.0	0.0	0.0097	15.2	8,260.0	0.0097	8,260	0.0
Jul-05-2016	0.0	0.0	0.0090	16.5	8,300.0	0.0090	8,300	0.0
Jul-06-2016	0.0	0.0	0.0093	17.1	8,810.0	0.0093	8,810	0.0
Jul-07-2016	0.0	0.0	0.0081	16.4	8,610.0	0.0081	8,610	0.0
Jul-08-2016	0.0	0.0	0.0082	16.6	8,690.0	0.0082	8,690	0.0
Jul-09-2016	0.0	0.0	0.0083	17.0	8,780.0	0.0083	8,780	0.0
Jul-10-2016	0.0	0.0	0.0086	16.7	8,810.0	0.0086	8,810	0.0
Jul-11-2016	0.0	0.0	0.0090	17.1	8,970.0	0.0090	8,970	0.0
Jul-12-2016	0.0	0.0	0.0089	17.3	9,020.0	0.0089	9,020	0.0
Jul-13-2016	0.0	0.0	0.0090	17.6	9,400.0	0.0090	9,400	0.0
Jul-14-2016	0.0	0.0	0.0093	17.7	9,350.0	0.0093	9,350	0.0
Jul-15-2016	0.0	0.0	0.0090	17.9	9,380.0	0.0090	9,380	0.0
Jul-16-2016	0.0	0.0	0.0085	17.8	9,390.0	0.0085	9,390	0.0
Jul-17-2016	0.0	0.0	0.0082	18.0	9,330.0	0.0082	9,330	0.0
Jul-18-2016	0.0	0.0	0.0082	17.9	9,280.0	0.0082	9,280	0.0
Jul-19-2016	0.0	0.0	0.0086	18.1	9,410.0	0.0086	9,410	0.0
Jul-20-2016	0.0	0.0	0.0085	19.9	10,100.0	0.0085	10,100	0.0
Jul-21-2016	0.0	0.0	0.0086	19.9	10,000.0	0.0086	10,000	0.0
Jul-22-2016	0.0	0.0	0.0080	20.1	10,000.0	0.0080	10,000	0.0
Jul-23-2016	0.0	0.0	0.0081	19.7	9,950.0	0.0081	9,950	0.0
Jul-24-2016	0.0	0.0	0.0080	19.8	10,000.0	0.0080	10,000	0.0
Jul-25-2016	0.0	0.0	0.0079	19.7	10,000.0	0.0079	10,000	0.0
Jul-26-2016	0.0	0.0	0.0079	19.8	9,940.0	0.0079	9,940	0.0
Jul-27-2016	0.0	0.0	0.0088	21.0	10,700.0	0.0088	10,700	0.0
Jul-28-2016	0.0	0.0	0.0074	20.9	10,600.0	0.0074	10,600	0.0
Jul-29-2016	0.0	0.0	0.0076	20.6	10,600.0	0.0076	10,600	0.0
Jul-30-2016	0.0	0.0	0.0078	20.2	10,500.0	0.0078	10,500	0.0
Jul-31-2016	0.0	0.0	0.0077	21.6	10,500.0	0.0077	10,500	0.0
Aug-01-2016	0.0	0.0	0.0078	20.9	10,500.0	0.0078	10,500	0.0
Aug-02-2016	0.0	0.0	0.0083	21.3	10,600.0	0.0083	10,600	0.0
Aug-03-2016	0.0	0.0	0.0084	22.2	11,200.0	0.0084	11,200	0.0
Aug-04-2016	0.0	0.0	0.0087	22.6	11,300.0	0.0087	11,300	0.0
Aug-05-2016	0.0	0.0	0.0084	22.6	11,200.0	0.0084	11,200	0.0
Aug-06-2016	0.0	0.0	0.0085	22.2	11,200.0	0.0085	11,200	0.0
Aug-07-2016	0.0	0.0	0.0088	22.7	11,200.0	0.0088	11,200	0.0
Aug-08-2016	0.0	0.0	0.0090	22.5	11,300.0	0.0090	11,300	0.0
Aug-09-2016	0.0	0.0	0.0095	22.3	11,200.0	0.0095	11,200	0.0
Aug-10-2016	0.0	0.0	0.0102	24.4	11,900.0	0.0102	11,900	0.0
Aug-11-2016	0.0	0.0	0.0101	24.3	11,900.0	0.0101	11,900	0.0
Aug-12-2016	0.0	0.0	0.0095	24.3	11,800.0	0.0095	11,800	0.0
Aug-13-2016	0.0	0.0	0.0103	23.6	11,800.0	0.0103	11,800	0.0
Aug-14-2016	0.0	0.0	0.0094	24.2	11,800.0	0.0094	11,800	0.0
Aug-15-2016	0.0	0.0	0.0090	24.2	11,900.0	0.0090	11,900	0.0
Aug-16-2016	0.0	0.0	0.0099	24.1	11,800.0	0.0099	11,800	0.0
Aug-17-2016	0.0	0.0	0.0097	26.3	12,400.0	0.0097	12,400	0.0
Aug-18-2016	0.0	0.0	0.0095	26.2	12,400.0	0.0095	12,400	0.0
Aug-19-2016	0.0	0.0	0.0096	26.3	12,300.0	0.0096	12,300	0.0
Aug-20-2016	0.0	0.0	0.0097	26.8	12,400.0	0.0097	12,400	0.0
Aug-21-2016	0.0	0.0	0.0096	26.5	12,600.0	0.0096	12,600	0.0
Aug-22-2016	0.0	0.0	0.0093	24.8	12,300.0	0.0093	12,300	0.0
Aug-23-2016	0.0	0.0	0.0112	25.8	12,700.0	0.0112	12,700	0.0
Aug-24-2016	0.0	0.0	0.0107	25.0	12,900.0	0.0107	12,900	0.0
Aug-25-2016	0.0	0.0	0.0101	25.1	13,000.0	0.0101	13,000	0.0
Aug-26-2016	0.0	0.0	0.0108	25.2	13,000.0	0.0108	13,000	0.0
Aug-27-2016	0.0	0.0	0.0108	25.1	13,000.0	0.0108	13,000	0.0
Aug-28-2016	0.0	0.0	0.0118	25.7	13,000.0	0.0118	13,000	0.0
Aug-29-2016	0.0	0.0	0.0119	26.0	13,200.0	0.0119	13,200	0.0
Aug-30-2016	0.0	0.0	0.0127	26.0	13,200.0	0.0127	13,200	0.0
Aug-31-2016	0.0	0.0	0.0124	28.3	13,700.0	0.0124	13,700	0.0
Sep-01-2016	0.0	0.0	0.0129	28.4	13,800.0	0.0129	13,800	0.0
Sep-02-2016	0.0	0.0	0.0130	28.6	13,800.0	0.0130	13,800	0.0
Sep-03-2016	0.0	0.0	0.0130	28.5	13,900.0	0.0130	13,900	0.0
Sep-04-2016	0.0	0.0	0.0135	28.6	14,000.0	0.0135	14,000	0.0
Sep-05-2016	0.0	0.0	0.0139	29.4	14,000.0	0.0139	14,000	0.0
Sep-06-2016	0.0	0.0	0.0144	29.0	14,000.0	0.0144	14,000	0.0
Sep-07-2016	0.0	0.0	0.0141	33.0	14,600.0	0.0141	14,600	0.0
Sep-08-2016	0.0	0.0	0.0140	32.3	14,700.0	0.0140	14,700	0.0
Sep-09-2016	0.0	0.0	0.0141	32.8	14,700.0	0.0141	14,700	0.0
Sep-10-2016	0.0	0.0	0.0138	32.7	14,700.0	0.0138	14,700	0.0
Sep-11-2016	0.0	0.0	0.0144	33.2	14,800.0	0.0144	14,800	0.0
Sep-12-2016	0.0	0.0	0.0144	32.9	14,800.0	0.0144	14,800	0.0
Sep-13-2016	0.0	0.0	0.0150	32.4	14,900.0	0.0150	14,900	0.0
Sep-14-2016	0.0	0.0	0.0143	34.0	15,500.0	0.0143	15,500	0.0
Sep-15-2016	0.0	0.0	0.0144	34.3	15,600.0	0.0144	15,600	0.0
Sep-16-2016	0.0	0.0	0.0144	34.2	15,500.0	0.0144	15,500	0.0
Sep-17-2016	0.0	0.0	0.0141	34.2	15,600.0	0.0141	15,600	0.0
Sep-18-2016	0.0	0.0	0.0147	34.6	15,700.0	0.0147	15,700	0.0
Sep-19-2016	0.0	0.0	0.0163	33.0	15,100.0	0.0163	15,100	0.0
Sep-20-2016	0.0	0.0	0.0162	31.3	14,700.0	0.0162	14,700	0.0

**Table 2a. Water monitoring of San Luis Drain discharge into Mud Slough (north)
Terminus of drain at Mud Slough (Station B2) and San Luis Drain at 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
Sep-21-2016	0.0	0.0	0.0132	25.8	12,200.0	0.0132	12,200	0.0
Sep-22-2016	4.0	8.0	0.0127	24.7	11,700.0	0.0127	11,700	0.3
Sep-23-2016	5.3	10.5	0.0141	22.8	11,000.0	0.0141	11,000	0.4
Sep-24-2016	5.5	11.0	0.0155	18.0	9,220.0	0.0155	9,220	0.5
Sep-25-2016	5.6	11.1	0.0141	16.1	8,420.0	0.0141	8,420	0.4
Sep-26-2016	5.6	11.1	0.0119	13.1	7,230.0	0.0119	7,230	0.4
Sep-27-2016	5.6	11.1	0.0121	16.2	8,270.0	0.0121	8,270	0.4
Sep-28-2016	5.7	11.3	0.0118	8.9	5,240.0	0.0118	5,240	0.4
Sep-29-2016	5.7	11.2	0.0098	8.3	5,020.0	0.0098	5,020	0.3
Sep-30-2016	5.7	11.4	0.0087	6.7	4,180.0	0.0087	4,180	0.3
Oct-01-2016	5.9	11.7	0.0072	6.1	3,850.0	0.0072	3,850	0.2
Oct-02-2016	6.2	12.3	0.0061	5.4	3,510.0	0.0061	3,510	0.2
Oct-03-2016	6.2	12.4	0.0056	5.2	3,330.0	0.0056	3,330	0.2
Oct-04-2016	6.3	12.5	0.0056	5.1	3,380.0	0.0056	3,380	0.2
Oct-05-2016	6.4	12.6	0.0059	4.1	3,110.0	0.0059	3,110	0.2
Oct-06-2016	6.5	13.0	0.0051	3.7	2,900.0	0.0051	2,900	0.2
Oct-07-2016	6.7	13.3	0.0046	3.5	2,800.0	0.0046	2,800	0.2
Oct-08-2016	6.9	13.7	0.0041	3.3	2,740.0	0.0041	2,740	0.2
Oct-09-2016	7.4	14.7	0.0045	3.2	2,690.0	0.0045	2,690	0.2
Oct-10-2016	7.2	14.3	0.0045	3.1	2,630.0	0.0045	2,630	0.2
Oct-11-2016	7.1	14.1	0.0046	3.1	2,620.0	0.0046	2,620	0.2
Oct-12-2016	7.6	15.0	0.0045	3.1	2,520.0	0.0045	2,520	0.2
Oct-13-2016	7.8	15.4	0.0045	2.9	2,490.0	0.0045	2,490	0.2
Oct-14-2016	8.1	16.1	0.0042	2.8	2,430.0	0.0042	2,430	0.2
Oct-15-2016	8.6	17.0	0.0041	2.7	2,380.0	0.0041	2,380	0.2
Oct-16-2016	9.2	18.2	0.0043	2.7	2,370.0	0.0043	2,370	0.2
Oct-17-2016	7.7	15.2	0.0044	2.7	2,350.0	0.0044	2,350	0.2
Oct-18-2016	7.2	14.3	0.0044	2.7	2,350.0	0.0044	2,350	0.2
Oct-19-2016	7.6	15.1	0.0046	2.8	2,290.0	0.0046	2,290	0.2
Oct-20-2016	7.8	15.5	0.0039	2.7	2,270.0	0.0039	2,270	0.2
Oct-21-2016	7.6	15.0	0.0042	2.7	2,280.0	0.0042	2,280	0.2
Oct-22-2016	7.4	14.7	0.0039	2.6	2,260.0	0.0039	2,260	0.2
Oct-23-2016	7.5	14.9	0.0040	2.6	2,290.0	0.0040	2,290	0.2
Oct-24-2016	7.1	14.1	0.0041	2.6	2,300.0	0.0041	2,300	0.2
Oct-25-2016	6.8	13.5	0.0038	2.5	2,310.0	0.0038	2,310	0.1
Oct-26-2016	6.7	13.3	0.0039	2.9	2,300.0	0.0039	2,300	0.1
Oct-27-2016	6.7	13.3	0.0038	2.7	2,340.0	0.0038	2,340	0.1
Oct-28-2016	11.4	22.7	0.0034	2.6	2,280.0	0.0034	2,280	0.2
Oct-29-2016	13.6	27.0	0.0030	2.4	2,180.0	0.0030	2,180	0.2
Oct-30-2016	22.0	43.7	0.0030	2.4	2,170.0	0.0030	2,170	0.4
Oct-31-2016	10.6	21.0	0.0030	2.4	2,200.0	0.0030	2,200	0.2
Nov-01-2016	7.9	15.7	0.0041	2.7	2,340.0	0.0041	2,340	0.2
Nov-02-2016	7.6	15.0	0.0033	2.4	2,180.0	0.0033	2,180	0.1
Nov-03-2016	7.6	15.0	0.0032	2.4	2,180.0	0.0032	2,180	0.1
Nov-04-2016	7.6	15.0	0.0015	2.4	2,160.0	0.0015	2,160	0.1
Nov-05-2016	7.1	14.1	0.0031	2.3	2,140.0	0.0031	2,140	0.1
Nov-06-2016	6.8	13.5	0.0054	5.5	3,690.0	0.0054	3,690	0.2
Nov-07-2016	6.8	13.5	0.0068	10.1	5,700.0	0.0068	5,700	0.3
Nov-08-2016	6.7	13.3	0.0059	8.5	4,780.0	0.0059	4,780	0.2
Nov-09-2016	6.7	13.3	0.0080	12.9	6,760.0	0.0080	6,760	0.3
Nov-10-2016	6.7	13.3	0.0064	10.1	5,530.0	0.0064	5,530	0.2
Nov-11-2016	6.8	13.5	0.0043	7.3	4,360.0	0.0043	4,360	0.2
Nov-12-2016	6.8	13.5	0.0034	5.9	3,710.0	0.0034	3,710	0.1
Nov-13-2016	6.7	13.3	0.0035	4.9	3,290.0	0.0035	3,290	0.1
Nov-14-2016	6.7	13.3	0.0034	3.9	2,880.0	0.0034	2,880	0.1
Nov-15-2016	6.7	13.3	0.0035	4.4	3,090.0	0.0035	3,090	0.1
Nov-16-2016	6.6	13.1	0.0040	3.2	2,560.0	0.0040	2,560	0.1
Nov-17-2016	6.7	13.3	0.0040	3.0	2,440.0	0.0040	2,440	0.1
Nov-18-2016	6.9	13.6	0.0040	2.7	2,330.0	0.0040	2,330	0.1
Nov-19-2016	7.1	14.0	0.0040	2.6	2,280.0	0.0040	2,280	0.2
Nov-20-2016	7.4	14.8	0.0042	2.5	2,280.0	0.0042	2,280	0.2
Nov-21-2016	7.6	15.2	0.0043	2.5	2,280.0	0.0043	2,280	0.2
Nov-22-2016	12.2	24.2	0.0046	2.8	2,410.0	0.0046	2,410	0.3
Nov-23-2016	19.2	38.1	0.0034	2.5	2,260.0	0.0034	2,260	0.4
Nov-24-2016	11.5	22.8	0.0029	2.4	2,240.0	0.0029	2,240	0.2
Nov-25-2016	8.3	16.5	0.0027	2.4	2,250.0	0.0027	2,250	0.1
Nov-26-2016	7.8	15.4	0.0026	2.4	2,240.0	0.0026	2,240	0.1
Nov-27-2016	8.5	16.9	0.0026	2.3	2,230.0	0.0026	2,230	0.1
Nov-28-2016	28.7	57.0	0.0031	4.0	3,030.0	0.0031	3,030	0.5
Nov-29-2016	23.6	46.8	0.0052	8.3	5,110.0	0.0052	5,110	0.7
Nov-30-2016	11.7	23.2	0.0043	6.8	4,140.0	0.0043	4,140	0.3
Dec-01-2016	8.2	16.3	0.0029	4.7	3,230.0	0.0029	3,230	0.1
Dec-02-2016	7.8	15.5	0.0030	5.4	3,480.0	0.0030	3,480	0.1
Dec-03-2016	8.0	15.8	0.0035	10.5	5,760.0	0.0035	5,760	0.2
Dec-04-2016	7.7	15.4	0.0069	13.2	7,090.0	0.0069	7,090	0.3
Dec-05-2016	7.6	15.0	0.0100	13.2	6,960.0	0.0100	6,960	0.4
Dec-06-2016	7.5	14.9	0.0099	13.1	6,890.0	0.0099	6,890	0.4
Dec-07-2016	7.5	15.0	0.0094	12.7	6,930.0	0.0094	6,930	0.4
Dec-08-2016	8.3	16.5	0.0091	12.2	6,760.0	0.0091	6,760	0.4
Dec-09-2016	7.9	15.6	0.0076	10.4	5,880.0	0.0076	5,880	0.3
Dec-10-2016	8.2	16.3	0.0058	8.1	4,820.0	0.0058	4,820	0.3
Dec-11-2016	7.9	15.6	0.0047	6.7	4,160.0	0.0047	4,160	0.2
Dec-12-2016	7.6	15.0	0.0037	5.0	3,440.0	0.0037	3,440	0.2
Dec-13-2016	7.4	14.8	0.0047	6.3	4,040.0	0.0047	4,040	0.2
Dec-14-2016	7.1	14.1	0.0028	3.4	2,650.0	0.0028	2,650	0.1
Dec-15-2016	8.5	16.8	0.0026	2.9	2,400.0	0.0026	2,400	0.1
Dec-16-2016	32.4	64.2	0.0023	2.6	2,260.0	0.0023	2,260	0.4
Dec-17-2016	67.1	133.1	0.0030	5.0	3,590.0	0.0030	3,590	1.1

**Table 2a. Water monitoring of San Luis Drain discharge into Mud Slough (north)
Terminus of drain at Mud Slough (Station B2) and San Luis Drain at 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
Dec-18-2016	47.5	94.2	0.0192	17.2	9,190.0	0.0192	9,190	4.9
Dec-19-2016	31.7	62.9	0.0211	16.2	8,820.0	0.0211	8,820	3.6
Dec-20-2016	23.5	46.5	0.0126	9.3	5,480.0	0.0126	5,480	1.6
Dec-21-2016	10.9	21.7	0.0271	14.6	8,290.0	0.0271	8,290	1.6
Dec-22-2016	7.5	14.9	0.0271	14.6	8,280.0	0.0271	8,280	1.1
Dec-23-2016	9.1	18.1	0.0271	14.2	8,060.0	0.0271	8,060	1.3
Dec-24-2016	29.8	59.1	0.0228	13.2	7,530.0	0.0228	7,530	3.7
Dec-25-2016	35.2	69.9	0.0180	11.9	6,810.0	0.0180	6,810	3.4
Dec-26-2016	28.7	56.9	0.0151	11.1	6,560.0	0.0151	6,560	2.3
Dec-27-2016	23.1	45.9	0.0210	15.6	8,600.0	0.0210	8,600	2.6
Dec-28-2016	18.4	36.4	0.0339			0.0339	7,760	3.4
Dec-29-2016	10.5	20.8	0.0316			0.0316	7,760	1.8
Dec-30-2016	7.4	14.7	0.0318			0.0318	7,760	1.3
Dec-31-2016	6.7	13.3	0.0295			0.0295	7,760	1.1

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 (Dry/Below Normal Year)
DATA SOURCE	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	UA3
UNITS	cfs	acre-feet	mg/L	mg/L	microm	mg/L	microm	lbs	lbs
Jan-16	34	2,061	0.0187	10.8	6,132	0.0187	6,132	104	179
Feb-16	20	1,164	0.0326	10.2	6,042	0.0326	6,042	92	104
Mar-16	28	1,704	0.0209	8.8	5,195	0.0209	5,195	95	103
Apr-16	10	597	0.0198	10.1	5,829	0.0198	5,829	33	108
May-16	11	673	0.0170	11.3	5,985	0.0170	5,985	28	110
Jun-16	0	7	0.0107	14.5	7,363	0.0107	7,363	0	73
Jul-16	0	0	0.0085	18.2	9,399	0.0085	9,399	0	73
Aug-16	0	0	0.0099	24.4	12,087	0.0099	12,087	0	77
Sep-16	2	97	0.0136	26.6	12,563	0.0136	12,563	3	132
Oct-16	8	500	0.0044	3.2	2,578	0.0044	2,578	6	131
Nov-16	9	553	0.0041	4.5	3,162	0.0041	3,162	6	131
Dec-16	16	1,005	0.0139	10.5	6,097	0.0139	6,097	39	179
Calendar Year Totals/Avgs:		8,361	0.0145	12.8	6,869	0.0145	6,869	405	1,400

NOTES: * Flow-weighted concentrations

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

PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity			
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-04-2016								
Jan-11-2016	13.3	8.2	5,889	11.4	8.2	23.8	14.0	
Jan-21-2016	12.2	7.8	6,567	14.0	26.1	16.3	18.0	
Jan-28-2016	15.4	7.9	5,086	12.9	20.2	20.3	11.0	16
Feb-04-2016	13.8	8.1	4,912	10.8	27.8	29.1	11.0	
Feb-11-2016	14.9	8.4	5,677	17.5	8.0	37.6	12.0	
Feb-17-2016	12.2	8.3	7,310	16.8	9.4	38.8	16.0	28
Feb-26-2016		8.4	6,076	19.8	12.1	28.0	14.0	
Mar-03-2016	12.7	8.2	4,283	18.5	10.4	18.9	9.2	
Mar-10-2016	10.8	7.9	5,398	17.3	20.4	20.4	12.0	
Mar-17-2016	11.9	8.2	5,161	18.0	20.7	20.0	12.0	16
Mar-25-2016		8.4	4,297	15.3	11.4	20.6	12.0	
Mar-31-2016	7.6	8.1	4,958	18.3	11.2	15.9	10.0	
Apr-07-2016	9.5	8.2	5,052	23.6	16.4	11.8	10.0	
Apr-14-2016	17.2	8.4	5,866	19.6	9.0	23.9	14.0	
Apr-21-2016	6.7	8.1	5,861	25.1	4.6	21.6	14.0	21
Apr-28-2016	8.0	8.0	5,689	18.8	8.1	17.5	14.0	
May-05-2016	10.9	8.4	5,671	21.3	4.4	16.3	14.0	
May-11-2016	10.0	8.4	3,460	24.4	49.1	18.5	12.0	
May-19-2016	10.2	9.0	5,990	25.8	17.0	18.2	14.0	
May-26-2016	9.4	8.8	6,166	25.6	17.4	15.2	15.0	20
Jun-02-2016	7.5	8.4	6,414	25.9	20.5	12.8	14.0	
Jun-10-2016	8.1	8.4	6,762	23.6	26.2	10.5	15.0	
Jun-14-2016	9.4	8.6	6,960	25.6	31.6	11.4	15.0	
Jun-21-2016	8.6	8.6	7,245	22.6	31.6	11.3	16.0	
Jun-28-2016	5.2	8.5	7,740	27.1	29.1	10.7	16.0	18
Jul-05-2016	6.3	8.2	8,174	26.0	44.6	8.7	20.0	
Jul-12-2016	8.6	8.5	8,626	24.7	61.0	10.1	20.0	
Jul-20-2016	5.6	8.4	9,333	23.9	74.0	11.1	21.0	15
Jul-29-2016		8.4	10,136	26.5	87.5	13.2	24.0	
Aug-02-2016		8.5	10,609	25.4	88.3	12.0	23.0	
Aug-10-2016	10.3	8.6	11,580	23.4		12.2	27.0	
Aug-17-2016	8.4	8.7	12,706	24.5	99.2	17.1	29.0	24
Aug-31-2016	15.3	8.8	2,492	28.0	164.0	29.2	36.0 U	
Sep-07-2016								
Sep-12-2016	3.4	8.6	18,995	19.2	164.0	29.5	46.0	
Sep-19-2016	8.6	8.5	11,497	22.2	65.6	11.0	27.0	
Sep-27-2016	7.9	8.1	3,376	23.2	7.9	8.2	6.0	34
Oct-03-2016	14.3	7.6	3,045	19.2		5.1	4.5	
Oct-12-2016		7.9	2,430	21.4	5.7	4.4	2.8	
Oct-17-2016	7.9	7.8	2,244	18.9	4.6	4.3	2.6	
Oct-24-2016	9.2	7.8	2,233	18.9	3.5	3.9	2.6	33
Nov-01-2016	9.2	7.8	2,164	18.2	5.1	3.1	2.6	
Nov-07-2016	11.4	8.3	6,033	18.3	9.9	7.2	13.0	
Nov-14-2016								
Nov-22-2016	13.3	8.1	2,229	15.6	4.4	3.6	2.7	29
Dec-01-2016	14.0	8.0	2,829	11.8	2.5	2.6	4.4	
Dec-05-2016	17.9	8.3	6,757	10.5	4.8	9.9	15.0	
Dec-12-2016		8.0	2,767	13.2	2.3	3.1	4.2	
Dec-22-2016	13.1	7.9	8,097	9.7	6.4	26.7	18.0	
Dec-29-2016	13.3	8.0	8,103	9.7	3.5	31.5	17.0	26

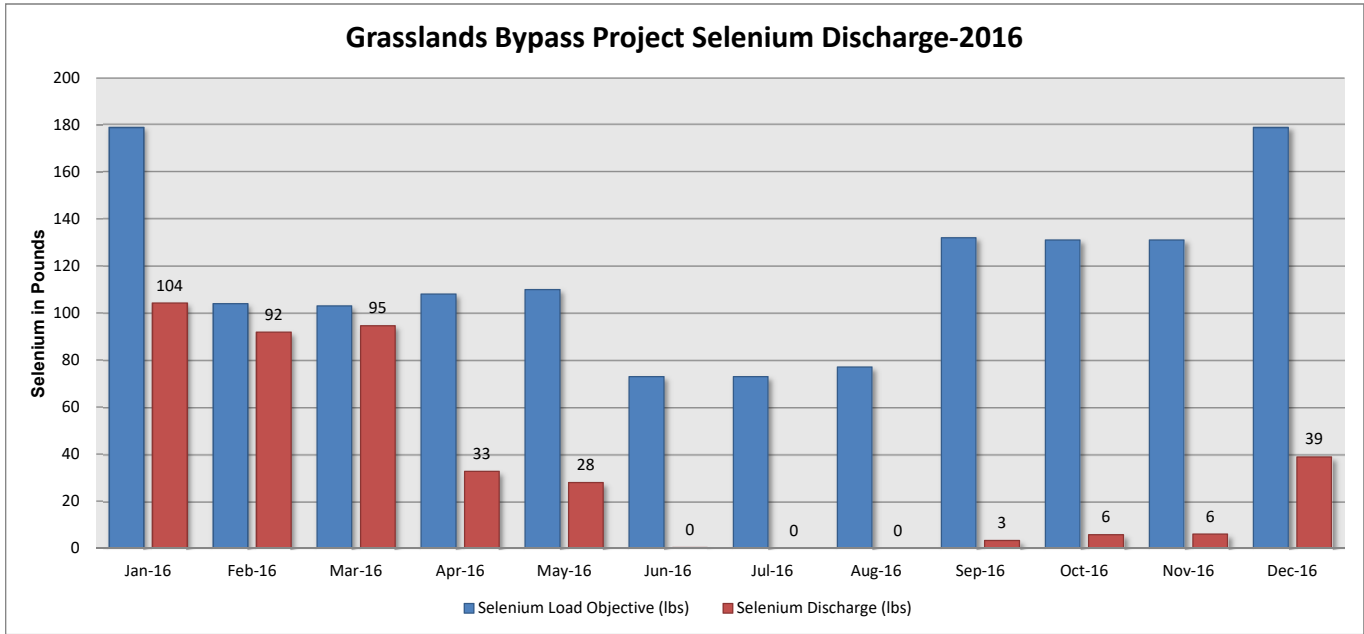
NOTES:

Table 2d. Nutrients in the San Luis Drain (Station B3)

PARAMETER	Nutrients				
	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-28-2016	0.36	0.14			
Feb-17-2016	4.80	0.09			
Mar-17-2016	2.60	0.10			
Apr-21-2016	0.95 T,V	0.38			
May-26-2016	<0.010	0.10			
Jun-28-2016	<0.010	0.18			
Jul-20-2016	<0.010	0.42			
Aug-20-2016	0.08	0.45			
Sep-27-2016	<0.010 T	0.08			
Oct-24-2016	0.02	0.05			
Nov-22-2016	<0.010	0.18			
Dec-29-2016	7.2 T	0.12			

NOTES: TKN, Total P, and Ortho P removed from monitoring program in 2015 GBP WDR

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



**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-01-2016	74	7.8	3,616
Jan-02-2016	72	8.3	3,643
Jan-03-2016	77	8.6	3,460
Jan-04-2016	78	9.0	3,405
Jan-05-2016	105	9.8	3,247
Jan-06-2016	145	9.8	3,031
Jan-07-2016	177	9.9	3,377
Jan-08-2016	180	9.5	3,816
Jan-09-2016	164	9.8	3,746
Jan-10-2016	141	10.3	3,383
Jan-11-2016	121	10.5	3,063
Jan-12-2016	114	10.3	3,145
Jan-13-2016	101	10.7	3,019
Jan-14-2016	95	10.8	3,098
Jan-15-2016	97	11.6	3,313
Jan-16-2016	86	12.5	3,089
Jan-17-2016	86	12.5	2,783
Jan-18-2016	98	13.2	2,984
Jan-19-2016	131	13.4	2,838
Jan-20-2016	208	12.9	3,039
Jan-21-2016	254	13.0	3,694
Jan-22-2016	231	12.5	2,928
Jan-23-2016	220	12.7	2,587
Jan-24-2016	258	12.6	2,679
Jan-25-2016	240	12.4	2,678
Jan-26-2016	221	12.5	2,588
Jan-27-2016	202	12.7	2,583
Jan-28-2016	186	12.3	2,625
Jan-29-2016	159	12.6	2,741
Jan-30-2016	132	13.3	2,768
Jan-31-2016	126	12.8	2,836
Feb-01-2016	135	9.5	3,072
Feb-02-2016	160	9.0	3,832
Feb-03-2016	135	9.2	3,494
Feb-04-2016	120	10.1	3,303
Feb-05-2016	110	10.9	3,198
Feb-06-2016	97	11.8	3,083
Feb-07-2016	93	12.7	3,013
Feb-08-2016	85	13.6	3,071
Feb-09-2016	72	14.3	3,118
Feb-10-2016	68	15.1	3,387
Feb-11-2016	71	15.5	3,321

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Feb-12-2016	79	15.9	3,105
Feb-13-2016	72	16.3	2,557
Feb-14-2016	72	16.0	2,512
Feb-15-2016	69	16.3	2,498
Feb-16-2016	65	16.8	2,514
Feb-17-2016	65	16.7	2,553
Feb-18-2016	71	15.0	2,479
Feb-19-2016	68	14.3	2,512
Feb-20-2016	60	14.6	2,584
Feb-21-2016	56	14.9	2,558
Feb-22-2016	40	15.1	2,989
Feb-23-2016	33	15.3	3,152
Feb-24-2016	34	15.8	3,115
Feb-25-2016	39	16.6	3,005
Feb-26-2016	45	17.1	2,804
Feb-27-2016	60	17.5	2,381
Feb-28-2016	72	16.9	2,128
Feb-29-2016	74	17.0	2,141
Mar-01-2016	64	17.7	2,295
Mar-02-2016	90	18.0	2,016
Mar-03-2016	121	18.0	1,919
Mar-04-2016	148	18.5	1,997
Mar-05-2016	195	17.9	1,946
Mar-06-2016	266	16.6	2,022
Mar-07-2016	301	15.5	2,867
Mar-08-2016	288	14.8	3,144
Mar-09-2016	263	15.9	3,277
Mar-10-2016	236	16.8	3,095
Mar-11-2016	222	16.2	2,963
Mar-12-2016	216	15.3	2,912
Mar-13-2016	237	15.0	2,791
Mar-14-2016	215	15.0	2,686
Mar-15-2016	227	15.6	3,432
Mar-16-2016	237	16.2	3,072
Mar-17-2016	214	17.4	2,399
Mar-18-2016	199	18.8	2,129
Mar-19-2016	197	19.6	2,099
Mar-20-2016	178	19.7	2,114
Mar-21-2016	168	19.4	2,093
Mar-22-2016	166	17.7	2,065
Mar-23-2016	149	16.8	2,186
Mar-24-2016	137	17.1	2,276
Mar-25-2016	124	18.2	2,361
Mar-26-2016	114	18.7	2,360

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Mar-27-2016	99	19.4	2,544
Mar-28-2016	84	18.4	2,726
Mar-29-2016	69	16.8	2,827
Mar-30-2016	61	17.3	2,916
Mar-31-2016	51	18.1	3,147
Apr-01-2016	55	19.2	2,892
Apr-02-2016	69	20.1	2,686
Apr-03-2016	75	20.8	2,786
Apr-04-2016	93	20.8	2,604
Apr-05-2016	88	20.4	2,611
Apr-06-2016	72	20.9	2,853
Apr-07-2016	66	21.5	2,993
Apr-08-2016	55	20.7	3,380
Apr-09-2016	67	19.8	3,195
Apr-10-2016	117	19.1	3,342
Apr-11-2016	175	19.6	4,308
Apr-12-2016	121	20.2	3,964
Apr-13-2016	74	20.3	3,391
Apr-14-2016	65	20.0	3,086
Apr-15-2016	57	17.8	2,997
Apr-16-2016	49	18.0	3,113
Apr-17-2016	55	20.3	2,857
Apr-18-2016	58	22.4	2,716
Apr-19-2016	58	23.3	2,646
Apr-20-2016	53	23.0	2,750
Apr-21-2016	48	22.5	2,912
Apr-22-2016	41	20.4	3,006
Apr-23-2016	37	19.6	3,179
Apr-24-2016	38	20.2	3,243
Apr-25-2016	45	18.5	2,991
Apr-26-2016	42	18.2	2,842
Apr-27-2016	35	18.5	2,858
Apr-28-2016	31	18.9	3,155
Apr-29-2016	28	20.5	3,303
Apr-30-2016	22	19.7	3,511
May-01-2016	23	21.0	3,444
May-02-2016	23	22.4	3,268
May-03-2016	21	22.5	3,357
May-04-2016	18	21.6	3,506
May-05-2016	18	20.2	3,590
May-06-2016	32	18.8	3,145
May-07-2016	105	19.0	3,681
May-08-2016	123	19.3	3,635
May-09-2016	94	21.5	3,590

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
May-10-2016	83	22.8	3,284
May-11-2016	65	23.9	3,394
May-12-2016	48	24.6	3,479
May-13-2016	38	24.7	3,140
May-14-2016	27	23.7	3,564
May-15-2016	20	23.3	4,038
May-16-2016	17	23.1	4,068
May-17-2016	20	23.2	3,778
May-18-2016	22	24.2	3,257
May-19-2016	18	24.2	3,446
May-20-2016	14	20.1	3,636
May-21-2016	11	19.4	3,863
May-22-2016	10	20.5	3,993
May-23-2016	10	21.0	4,061
May-24-2016	11	21.6	4,033
May-25-2016	16	21.6	3,291
May-26-2016	17	22.7	3,018
May-27-2016	36	23.6	2,107
May-28-2016	41	23.8	2,128
May-29-2016	37	24.8	2,116
May-30-2016	35	25.5	2,133
May-31-2016	31	26.3	2,182
Jun-01-2016	31	27.4	2,118
Jun-02-2016	26	27.2	2,220
Jun-03-2016	22	26.6	2,388
Jun-04-2016	19	26.3	2,678
Jun-05-2016	18	26.4	2,523
Jun-06-2016	20	26.8	2,551
Jun-07-2016	21	27.3	2,494
Jun-08-2016	22	25.8	2,547
Jun-09-2016	22	25.0	2,442
Jun-10-2016	22	24.9	2,410
Jun-11-2016	20	22.8	2,429
Jun-12-2016	16	23.7	2,678
Jun-13-2016	16	25.0	2,943
Jun-14-2016	23	24.4	2,605
Jun-15-2016	20	22.6	2,845
Jun-16-2016	21	22.8	2,666
Jun-17-2016	17	24.4	2,761
Jun-18-2016	16	24.2	2,908
Jun-19-2016	23	24.5	2,341
Jun-20-2016	24	24.9	2,170
Jun-21-2016	19	25.2	2,373
Jun-22-2016	26	25.9	2,135

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jun-23-2016	25	25.6	2,115
Jun-24-2016	27	25.4	2,185
Jun-25-2016	27	25.3	2,068
Jun-26-2016	21	26.3	2,270
Jun-27-2016	10	26.5	3,051
Jun-28-2016	8	27.2	3,524
Jun-29-2016	9	27.2	3,447
Jun-30-2016	7	26.6	3,647
Jul-01-2016	6	27.5	3,858
Jul-02-2016	6	27.3	4,079
Jul-03-2016	6	26.8	4,021
Jul-04-2016	6	26.4	3,923
Jul-05-2016	6	26.4	3,756
Jul-06-2016	12	26.4	2,806
Jul-07-2016	12	25.9	2,333
Jul-08-2016	10	25.9	2,326
Jul-09-2016	6	25.7	2,911
Jul-10-2016	5	23.8	3,270
Jul-11-2016	5	24.1	3,273
Jul-12-2016	6	25.1	3,462
Jul-13-2016	8	25.3	3,840
Jul-14-2016	12	26.8	3,324
Jul-15-2016	9	26.9	3,633
Jul-16-2016	9	26.5	4,024
Jul-17-2016	12	25.9	4,116
Jul-18-2016	14	25.2	3,376
Jul-19-2016	15	24.8	3,110
Jul-20-2016	16	25.0	3,301
Jul-21-2016	16	25.2	3,525
Jul-22-2016	17	24.5	3,173
Jul-23-2016	19	25.2	2,639
Jul-24-2016	16	26.6	2,575
Jul-25-2016	7	27.2	2,746
Jul-26-2016	7	27.3	2,519
Jul-27-2016	5	27.5	2,501
Jul-28-2016	5	27.9	2,415
Jul-29-2016	6	28.0	2,004
Jul-30-2016	5	28.0	2,172
Jul-31-2016	5	27.0	2,284
Aug-01-2016	5	26.3	2,177
Aug-02-2016	5	26.2	2,171
Aug-03-2016	5	26.6	2,155
Aug-04-2016	5	25.7	2,332
Aug-05-2016	5	25.0	2,837

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Aug-06-2016	6	25.6	3,274
Aug-07-2016	7	25.0	3,584
Aug-08-2016	8	25.1	3,786
Aug-09-2016	9	25.1	3,198
Aug-10-2016	12	26.3	1,486
Aug-11-2016	9	26.0	2,500
Aug-12-2016	7	26.1	3,014
Aug-13-2016	8	26.1	3,016
Aug-14-2016	8	26.4	3,363
Aug-15-2016	8	26.1	3,558
Aug-16-2016	8	25.7	2,936
Aug-17-2016	9	26.5	1,823
Aug-18-2016	9	26.6	1,768
Aug-19-2016	8	25.7	2,162
Aug-20-2016	10	26.1	1,618
Aug-21-2016	9	25.6	1,339
Aug-22-2016	8	24.9	1,432
Aug-23-2016	8	25.1	1,464
Aug-24-2016	8	25.0	1,580
Aug-25-2016	8	24.9	1,574
Aug-26-2016	7	24.4	2,053
Aug-27-2016	8	24.1	1,900
Aug-28-2016	9	24.1	1,701
Aug-29-2016	10	24.2	1,475
Aug-30-2016	10	24.2	1,392
Aug-31-2016	8	24.7	1,477
Sep-01-2016	7	23.8	1,608
Sep-02-2016	9	23.9	1,638
Sep-03-2016	12	23.7	1,599
Sep-04-2016	10	22.2	1,521
Sep-05-2016	6	22.0	1,872
Sep-06-2016	5	22.3	1,979
Sep-07-2016	8	22.9	1,818
Sep-08-2016	10	23.6	1,714
Sep-09-2016	12	23.6	1,722
Sep-10-2016	8	24.2	2,053
Sep-11-2016	5	24.6	2,331
Sep-12-2016	5	22.8	2,456
Sep-13-2016	6	20.4	2,645
Sep-14-2016	8	21.1	2,828
Sep-15-2016	8	21.7	2,868
Sep-16-2016	15	21.7	2,377
Sep-17-2016	24	22.9	1,571
Sep-18-2016	22	23.2	1,633

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Sep-19-2016	28	23.8	1,527
Sep-20-2016	33	23.7	1,412
Sep-21-2016	31	23.0	1,736
Sep-22-2016	40	20.7	2,116
Sep-23-2016	26	19.7	3,327
Sep-24-2016	20	20.5	4,343
Sep-25-2016	20	21.9	3,937
Sep-26-2016	19	22.8	3,214
Sep-27-2016	19	22.9	3,133
Sep-28-2016	21	23.0	2,819
Sep-29-2016	35	23.0	2,058
Sep-30-2016	33	21.6	2,205
Oct-01-2016	33	20.0	2,179
Oct-02-2016	34	19.1	2,019
Oct-03-2016	33	18.2	2,023
Oct-04-2016	34	18.3	1,988
Oct-05-2016	40	18.3	1,861
Oct-06-2016	40	18.0	1,914
Oct-07-2016	45	18.3	1,849
Oct-08-2016	50	19.1	1,805
Oct-09-2016	63	20.0	1,668
Oct-10-2016	72	20.4	1,644
Oct-11-2016	77	20.1	1,694
Oct-12-2016	82	19.9	1,658
Oct-13-2016	99	19.9	1,474
Oct-14-2016	96	19.3	1,579
Oct-15-2016	94	19.6	1,598
Oct-16-2016	107	19.7	1,515
Oct-17-2016	153	19.2	1,290
Oct-18-2016	155	18.4	1,339
Oct-19-2016	134	17.4	1,450
Oct-20-2016	119	17.6	1,550
Oct-21-2016	119	18.2	1,537
Oct-22-2016	117	18.8	1,548
Oct-23-2016	114	19.3	1,578
Oct-24-2016	114	19.2	1,576
Oct-25-2016	114	18.7	1,575
Oct-26-2016	116	18.9	1,563
Oct-27-2016	116	18.6	1,598
Oct-28-2016	145	18.5	1,497
Oct-29-2016	213	19.4	1,320
Oct-30-2016	246	19.6	1,347
Oct-31-2016	247	18.5	1,269
Nov-01-2016	243	18.2	1,249

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Nov-02-2016	219	17.4	1,310
Nov-03-2016	199	17.4	1,383
Nov-04-2016	174	17.3	1,464
Nov-05-2016	162	17.4	1,511
Nov-06-2016	152	17.7	1,536
Nov-07-2016	143	18.2	1,586
Nov-08-2016	133	18.5	1,799
Nov-09-2016	130	18.7	1,925
Nov-10-2016	120	18.7	2,086
Nov-11-2016	115	18.8	2,008
Nov-12-2016	109	18.9	1,974
Nov-13-2016	104	18.5	1,924
Nov-14-2016	99	18.1	1,932
Nov-15-2016	92	17.8	1,948
Nov-16-2016	86	16.8	1,977
Nov-17-2016	78	14.7	2,024
Nov-18-2016	76	13.7	2,003
Nov-19-2016	76	13.9	1,969
Nov-20-2016	81	14.6	1,938
Nov-21-2016	89	14.7	1,882
Nov-22-2016	94	14.2	1,918
Nov-23-2016	101	14.2	1,957
Nov-24-2016	103	13.2	1,920
Nov-25-2016	101	12.6	1,923
Nov-26-2016	99	12.1	1,929
Nov-27-2016	99	12.3	1,925
Nov-28-2016	113	12.5	1,933
Nov-29-2016	115	11.8	2,727
Nov-30-2016	104	11.8	2,353
Dec-01-2016	100	11.9	2,114
Dec-02-2016	98	10.7	2,036
Dec-03-2016	99	10.4	2,008
Dec-04-2016	94	10.6	2,190
Dec-05-2016	87	10.6	2,426
Dec-06-2016	76	11.1	2,582
Dec-07-2016	81	10.7	2,453
Dec-08-2016	86	11.2	2,475
Dec-09-2016	88	12.5	2,468
Dec-10-2016	79	13.8	2,482
Dec-11-2016	76	14.0	2,311
Dec-12-2016	71	13.3	2,254
Dec-13-2016	71	13.2	2,091
Dec-14-2016	76	13.5	1,945
Dec-15-2016	80	13.7	2,021

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-16-2016	96	13.1	1,934
Dec-17-2016	134	11.1	2,203
Dec-18-2016	164	9.5	3,831
Dec-19-2016	145	8.6	3,452
Dec-20-2016	113	8.4	3,424
Dec-21-2016	90	8.8	3,034
Dec-22-2016	78	9.2	2,922
Dec-23-2016	72	9.5	2,961
Dec-24-2016	92	9.0	3,608
Dec-25-2016	100	8.7	3,616
Dec-26-2016	101	8.6	2,922
Dec-27-2016	85	8.4	3,921
Dec-28-2016	73	8.5	3,657
Dec-29-2016	73	9.2	2,992
Dec-30-2016	78	9.4	2,768
Dec-31-2016	68	9.6	2,893

NOTES:

USGS data webpage

http://waterdata.usgs.gov/nwis/dv/?site_no=11262900&agency_cd=USGS&referred_module=sw

Table 3b. Monthly averages and totals

PARAMETER	Total Flow	Average Temperature	Average Specific Conductance
DATA SOURCE	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm
Jan-16	9,080	11.3	3,090
Feb-16	4,410	14.5	2,879
Mar-16	10,580	17.3	2,538
Apr-16	3,750	20.2	3,072
May-16	2,150	22.4	3,330
Jun-16	1,190	25.5	2,584
Jul-16	570	26.2	3,139
Aug-16	490	25.5	2,263
Sep-16	1,000	22.6	2,269
Oct-16	6,390	19.0	1,629
Nov-16	7,160	15.8	1,867
Dec-16	5,600	10.7	2,709

NOTES:

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

PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum	Total Organic Carbon
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity				
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L	ug/L	mg/L
Jan-04-2016									
Jan-11-2016	8.8	7.7	3,056	10.5	11.4	4.8	5.0		
Jan-21-2016	9.7	7.6	4,159	12.9	17.9	5.5	8.6		
Jan-28-2016	11.8	7.4	2,689	12.8	18.0	4.8	4.0		
Feb-04-2016	11.7	7.7	3,381	9.8	23.0	12.7	5.1		4
Feb-11-2016	7.3	7.9	3,970	16.7	18.8	11.6	4.7		13
Feb-17-2016	5.8	7.7	2,694	17.0	16.5	4.0	3.0	12	17
Feb-26-2016		7.7	2,827	16.9	20.0	2.6	2.9		
Mar-03-2016	7.5	7.9	1,850	18.3	28.8	1.3	2.0		
Mar-10-2016	8.2	7.6	2,994	18.2	45.7	5.6	4.9		19
Mar-17-2016	7.8	7.8	2,385	16.3	59.5	4.0	3.8	11	17
Mar-25-2016		7.8	2,147	15.0	63.3	1.3	3.0		18
Mar-31-2016	8.1	7.9	3,339	17.8	69.1	1.5	3.4		16
Apr-07-2016	7.0	7.9	3,098	22.4	58.7	2.3	3.7		17
Apr-14-2016	7.8	7.8	3,090	19.4	64.0	2.1	3.4		18
Apr-21-2016	7.9	7.9	3,019	23.7	71.1	1.2	3.0	11	21
Apr-28-2016	8.1	7.8	3,214	18.4	67.5	1.1	3.2		17
May-05-2016	8.9	8.0	3,497	20.8	45.5	0.7	2.9		8.5T
May-11-2016	10.0	8.4	3,460	24.4	49.1	9.1	5.8		10 T
May-19-2016	9.6	8.1	3,711	24.8	35.7	2.8	4.4		9
May-26-2016	11.4	8.1	3,179	22.1	25.9	1.1	3.0		9
Jun-02-2016	9.2	7.9	2,244	27.0	35.2	0.6	1.9		13
Jun-10-2016	12.6	8.2	2,383	25.4	27.8	0.5	1.9		9
Jun-14-2016	10.5	8.0	2,567	23.7	21.9	0.5	2.2		14
Jun-21-2016	8.5	7.7	2,353	23.0	24.4	0.6	2.0		10
Jun-28-2016	8.9	8.0	3,584	28.3	46.7	0.5	2.9	18	8
Jul-05-2016	9.8	8.2	3,817	27.6	31.6	0.4	3.1		7
Jul-12-2016	10.4	8.2	3,500	27.6	30.0	< 0.4	2.8		5
Jul-20-2016	7.7	8.0	3,317	26.1	29.8	0.5	2.6	13	7
Jul-29-2016		8.1	2,154	29.9	80.0	0.4	1.8		9
Aug-02-2016		8.2	2,163	26.2	94.9	0.5	1.6		11
Aug-10-2016	7.1	8.1	1,350	24.7		0.6	0.9		5
Aug-17-2016	5.0	7.7	1,738	27.1	54.8	0.5	1.3	7	4
Aug-25-2016	9.0	7.8	1,501	22.3	90.8	< 0.4	1.0		6
Aug-31-2016	9.1	7.9	1,544	26.1	118.0	0.7	1.0		8
Sep-07-2016									
Sep-12-2016	6.4	7.6	2,427	19.0	56.5	0.5	1.8		10
Sep-19-2016	10.5	7.7	1,476	21.0	70.6	0.6	1.2		8
Sep-27-2016	7.5	7.8	1,809	22.4	61.9	1.6	1.8	11	9
Oct-03-2016	12.6	7.3	2,035	16.9		1.4	1.9		14
Oct-12-2016		7.5	1,675	20.5	15.4	0.8	1.3		17 T
Oct-17-2016	5.6	7.4	1,328	18.2	29.7	0.5	0.8		15
Oct-24-2016	4.1	7.4	1,625	18.6	8.6	0.5	1.1	10	20
Nov-01-2016	3.5	7.3	1,289	17.8	13.4	0.5	0.9		22
Nov-07-2016	6.4	7.5	1,693	18.7	18.4	0.7	1.2		20 T
Nov-14-2016									
Nov-22-2016	9.3	7.7	1,606	16.2	18.1	0.8	1.5	12	16
Dec-01-2016	11.6	7.7	2,139	12.4	18.4	0.6	2.0		15
Dec-05-2016	13.2	7.8	2,519	11.2	12.2	1.0	2.7		14
Dec-12-2016		7.7	2,524	14.0	27.2	0.9	2.4		14
Dec-22-2016	9.6	7.8	3,126	12.1	7.6	2.8	3.3		16
Dec-29-2016	10.6	7.8	3,168	14.8	9.0	4.0	3.5	14	9

NOTES:

Table 3d. Nutrients monitoring in Mud Slough (north) below San Luis Drain discharge(Station D)

PARAMETER	Nutrients				
	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-28-2016	1.30	0.30			
Feb-17-2016	0.67	0.28			
Mar-17-2016	0.76	0.22			
Apr-21-2016	0.31 T V	0.21			
May-26-2016	<0.010	0.07			
Jun-28-2016	< 0.010	0.19			
Jul-20-2016	< 0.010	0.14			
Aug-17-2016	0.01	0.09			
Sep-27-2016	0.020 T	0.17			
Oct-24-2016	0.03	0.10			
Nov-22-2016	0.07	0.21 L			
Dec-29-2016	1.4 T	0.18			

NOTES: TKN, Total P, and Ortho P removed from monitoring program in 2015 GBP WDR

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

PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity			
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-04-2016								
Jan-11-2016								
Jan-21-2016								
Jan-28-2016	11.4	7.7	1,886	12.7	16.3	0.5	1.5	11
Feb-04-2016								
Feb-11-2016	7.4	7.9	2,355	16.8	19.3	<0.4	1.8	
Feb-17-2016	6.3	7.7	2,127	16.8	18.5	0.5	2.0	12
Feb-26-2016		7.8	2,372	18.2	24.2	0.4	1.9	
Mar-10-2016	7.8	7.8	1,977	17.3	57.2	0.5	2.0	
Mar-17-2016	13.7		2,206	16.7	61.3	0.6	2.0	8
Mar-25-2016		7.9	1,983	14.8	71.0	0.6	2.5	
Mar-31-2016	8.3	7.9	2,941	17.5	90.0	<0.4	2.8	
Apr-07-2016	7.0	7.9	2,611	22.5	66.8	0.6	2.5	
Apr-14-2016	8.3	7.9	2,631	18.8	74.5	0.4	2.6	
Apr-21-2016	8.3	7.9	2,682	23.8	82.7	0.5	2.5	10
Apr-28-2016	8.0	7.9	2,707	18.6	65.2	0.4	2.5	
May-05-2016	8.8	8.0	2,897	20.7	70.5	0.5	2.4	
May-11-2016	10.0	8.4	2,237	24.3	50.1	1.44 U	2.1	
May-19-2016	10.1	8.1	2,869	24.9	42.5	0.9	2.7	
May-26-2016	11.8	8.2	2,642	22.6	21.9	0.6	2.2	16
Jun-02-2016	9.2	7.8	1,915	26.8	35.8	0.4	1.7	
Jun-10-2016	13.4	8.2	2,124	25.5	31.5	0.5	1.8	
Jun-14-2016	10.6	8.0	2,386	23.3	17.9	0.4	2.0	
Jun-21-2016	8.3	7.8	2,127	23.1	26.7	0.5	1.8	
Jun-28-2016	9.2	8.1	2,815	28.7	64.7	0.5	2.3	17
Jul-05-2016	11.0	8.4	2,909	27.9	30.9	0.4	2.4	
Jul-12-2016								
Jul-20-2016								
Jul-29-2016								
Aug-02-2016								
Aug-10-2016	7.7	8.2	1,350	25.6		0.6	0.9	
Aug-17-2016								
Aug-25-2016								
Aug-31-2016	9.5	7.9	1,502	26.6	122.0	0.8	1.2	
Sep-07-2016								
Sep-19-2016	11.5	7.7	1,410	21.1	66.3	0.7	1.0	
Sep-27-2016	7.4	7.7	1,308	22.3	48.7	0.5	0.8	
Oct-03-2016	12.6	7.2	1,589	16.6		<0.4	1.1	
Oct-12-2016		7.5	1,635	20.4	13.9	<0.4	1.1	
Oct-17-2016	5.9	7.4	1,245	18.3	31.3	<0.4	0.7	
Oct-24-2016	4.6	7.4	1,549	18.6	8.0	<0.4	1.0	
Nov-01-2016								
Nov-07-2016	5.7	7.5	1,565	17.9	18.8	<0.4	1.0	
Nov-14-2016								
Nov-22-2016								
Dec-01-2016	11.9	7.8	1,861	12.0	14.3	< 0.4	1.3	
Dec-05-2016	14.1	7.8	1,960	10.9	8.4	< 0.4	1.4	
Dec-12-2016		7.8	2,201	13.8	119.0	0.5	1.7	
Dec-22-2016	10.6	7.8	2,421	10.2	7.2	0.4	1.8	
Dec-29-2016	11.3	7.9	2,420	11.6	10.1	0.6	1.9	

NOTES:

Table 4b. Nutrient monitoring in Mud Slough (north) above San Luis Drain discharge (Station C)

PARAMETER	Nutrients				
	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-28-2016	0.16	0.36			
Feb-17-2016	0.06	0.34			
Mar-17-2016	0.25	0.22			
Apr-21-2016	0.038 T,V	0.26			
May-26-2016	<0.010	0.09			
Jun-28-2016					
Jul-20-2016					
Aug-17-2016					
Sep-27-2016					
Oct-24-2016					
Nov-22-2016					
Dec-29-2016					

NOTES: TKN, Total P, and Ortho P removed from monitoring program in 2015 GBP WDR

Table 5. Water quality monitoring in Mud Slough (north) backwater below San Luis Drain discharge (Station I2)

	Physicals					
PARAMETER	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity	Total Selenium
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	µg/L

NOTES:

Water is only collected when the backwater location is flooded during high flow.

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-01-2016	53	7.4	1,725
Jan-02-2016	50	8.1	1,737
Jan-03-2016	48	8.7	1,782
Jan-04-2016	50	9.1	1,725
Jan-05-2016	59	9.8	1,612
Jan-06-2016	71	9.4	1,601
Jan-07-2016	82	9.8	1,629
Jan-08-2016	92	9.2	1,598
Jan-09-2016	96	9.7	1,568
Jan-10-2016	92	10.3	1,688
Jan-11-2016	73	10.3	1,702
Jan-12-2016	62	10.1	1,764
Jan-13-2016	60	10.7	1,783
Jan-14-2016	67	10.5	1,756
Jan-15-2016	75	11.7	1,744
Jan-16-2016	77	12.4	1,694
Jan-17-2016	84	12.1	1,691
Jan-18-2016	91	13.1	1,632
Jan-19-2016	113	13.0	1,642
Jan-20-2016	134	12.7	1,600
Jan-21-2016	141	12.4	1,484
Jan-22-2016	154	11.9	1,454
Jan-23-2016	156	12.3	1,533
Jan-24-2016	158	12.1	1,590
Jan-25-2016	166	11.7	1,524
Jan-26-2016	166	11.6	1,606
Jan-27-2016	161	11.6	1,631
Jan-28-2016	157	11.4	1,639
Jan-29-2016	151	11.9	1,667
Jan-30-2016	146	12.6	1,708
Jan-31-2016	141	12.1	1,792
Feb-01-2016	136	9.4	1,900
Feb-02-2016	135	9.1	1,859
Feb-03-2016	134	9.1	1,842
Feb-04-2016	133	9.8	1,937
Feb-05-2016	131	10.4	2,038
Feb-06-2016	127	11.3	2,074
Feb-07-2016	114	12.2	2,031
Feb-08-2016	110	13.0	1,997
Feb-09-2016	107	13.6	1,988
Feb-10-2016	101	14.2	2,003

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Feb-11-2016	98	14.7	2,004
Feb-12-2016	101	15.0	1,996
Feb-13-2016	97	15.3	2,046
Feb-14-2016	93	15.1	2,057
Feb-15-2016	95	15.5	1,988
Feb-16-2016	93	15.9	1,931
Feb-17-2016	104	15.7	1,819
Feb-18-2016	127	14.6	1,727
Feb-19-2016	130	14.2	1,719
Feb-20-2016	130	14.2	1,760
Feb-21-2016	129	14.3	1,810
Feb-22-2016	119	14.5	1,871
Feb-23-2016	123	14.7	1,846
Feb-24-2016	121	15.0	1,821
Feb-25-2016	128	15.7	1,869
Feb-26-2016	128	16.3	1,932
Feb-27-2016	128	16.7	1,932
Feb-28-2016	129	16.3	1,874
Feb-29-2016	130	16.4	1,818
Mar-01-2016	132	17.0	1,748
Mar-02-2016	133	17.1	1,668
Mar-03-2016	134	17.4	1,621
Mar-04-2016	134	17.8	1,636
Mar-05-2016	135	17.4	1,672
Mar-06-2016	143	16.5	1,638
Mar-07-2016	166	15.4	1,493
Mar-08-2016	189	14.8	1,405
Mar-09-2016	213	15.5	1,380
Mar-10-2016	220	16.1	1,437
Mar-11-2016	201	15.6	1,531
Mar-12-2016	183	15.1	1,653
Mar-13-2016	175	14.8	1,776
Mar-14-2016	178	14.9	1,816
Mar-15-2016	185	15.1	1,816
Mar-16-2016	207	15.7	1,777
Mar-17-2016	208	16.7	1,756
Mar-18-2016	191	17.8	1,789
Mar-19-2016	184	18.5	1,740
Mar-20-2016	183	19.1	1,734
Mar-21-2016	183	18.9	1,683
Mar-22-2016	185	17.7	1,659
Mar-23-2016	187	16.9	1,650
Mar-24-2016	185	17.1	1,699
Mar-25-2016	183	17.6	1,765

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Mar-26-2016	180	17.8	1,842
Mar-27-2016	177	18.5	1,832
Mar-28-2016	171	18.1	1,839
Mar-29-2016	166	16.7	1,885
Mar-30-2016	160	16.6	1,872
Mar-31-2016	155	17.1	1,910
Apr-01-2016	149	17.8	1,981
Apr-02-2016	141	18.6	2,019
Apr-03-2016	135	19.6	1,974
Apr-04-2016	132	19.7	1,972
Apr-05-2016	130	19.6	1,959
Apr-06-2016	128	19.9	1,923
Apr-07-2016	124	20.5	2,034
Apr-08-2016	120	19.9	2,099
Apr-09-2016	121	19.0	2,080
Apr-10-2016	125	18.4	1,943
Apr-11-2016	134	18.7	1,730
Apr-12-2016	149	19.0	1,560
Apr-13-2016	161	19.2	1,579
Apr-14-2016	167	19.4	1,725
Apr-15-2016	160	18.0	1,857
Apr-16-2016	149	17.8	1,981
Apr-17-2016	139	19.2	2,042
Apr-18-2016	132	20.9	1,997
Apr-19-2016	127	22.0	1,955
Apr-20-2016	122	22.0	1,975
Apr-21-2016	117	21.6	2,005
Apr-22-2016	115	20.3	1,817
Apr-23-2016	112	19.2	1,825
Apr-24-2016	110	19.3	1,852
Apr-25-2016	111	18.1	1,725
Apr-26-2016	107	17.6	1,868
Apr-27-2016	100	17.5	1,994
Apr-28-2016	87	17.8	2,143
Apr-29-2016	76	19.3	2,173
Apr-30-2016	85	19.0	1,865
May-01-2016	101	19.9	1,667
May-02-2016	109	21.1	1,602
May-03-2016	111	21.6	1,636
May-04-2016	106	21.5	1,652
May-05-2016	90	20.2	1,874
May-06-2016	80	18.9	2,014
May-07-2016	88	18.0	1,806
May-08-2016	106	18.4	1,408

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
May-09-2016	121	20.5	1,472
May-10-2016	130	21.9	1,462
May-11-2016	127	22.8	1,470
May-12-2016	119	23.7	1,558
May-13-2016	112	24.1	1,715
May-14-2016	109	23.1	1,790
May-15-2016	106	22.6	1,755
May-16-2016	97	22.5	1,758
May-17-2016	85	22.5	1,796
May-18-2016	76	23.5	1,886
May-19-2016	72	23.7	1,909
May-20-2016	75	20.2	1,879
May-21-2016	79	18.9	1,693
May-22-2016	88	19.4	1,451
May-23-2016	97	20.0	1,346
May-24-2016	107	20.7	1,247
May-25-2016	121	21.1	1,185
May-26-2016	127	21.5	1,217
May-27-2016	117	22.2	1,371
May-28-2016	103	22.8	1,472
May-29-2016	95	23.6	1,464
May-30-2016	92	24.2	1,451
May-31-2016	90	24.9	1,479
Jun-01-2016	87	26.0	1,447
Jun-02-2016	85	26.0	1,437
Jun-03-2016	82	25.9	1,384
Jun-04-2016	78	26.3	1,510
Jun-05-2016	74	26.1	1,571
Jun-06-2016	76	26.1	1,437
Jun-07-2016	78	26.2	1,419
Jun-08-2016	82	25.5	1,419
Jun-09-2016	86	24.6	1,361
Jun-10-2016	86	24.3	1,341
Jun-11-2016	82	22.7	1,433
Jun-12-2016	81	22.4	1,484
Jun-13-2016	87	23.2	1,441
Jun-14-2016	100	22.8	1,268
Jun-15-2016	98	21.7	1,297
Jun-16-2016	85	21.2	1,458
Jun-17-2016	82	22.51	1,384
Jun-18-2016	85	23.2	1,294
Jun-19-2016	89	23.6	1,218
Jun-20-2016	84	24.3	1,196
Jun-21-2016	78	24.7	1,387

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jun-22-2016	83	25.5	1,360
Jun-23-2016	90	25.3	1,295
Jun-24-2016	83	24.9	1,363
Jun-25-2016	73	24.7	1,407
Jun-26-2016	67	25.5	1,410
Jun-27-2016	70	26.3	1,460
Jun-28-2016	81	27.8	1,319
Jun-29-2016	85	27.5	1,252
Jun-30-2016	76	26.9	1,274
Jul-01-2016	64	27.2	1,276
Jul-02-2016	57	26.9	1,323
Jul-03-2016	55	26.4	1,318
Jul-04-2016	62	25.9	1,245
Jul-05-2016	71	25.9	1,147
Jul-06-2016	74	25.4	1,133
Jul-07-2016	72	25.1	1,129
Jul-08-2016	70	25.1	1,195
Jul-09-2016	75	25.3	1,158
Jul-10-2016	88	24.5	959
Jul-11-2016	98	24.1	940
Jul-12-2016	108	24.6	943
Jul-13-2016	113	25.0	901
Jul-14-2016	101	26.1	996
Jul-15-2016	87	26.8	1,043
Jul-16-2016	83	26.4	975
Jul-17-2016	84	25.4	998
Jul-18-2016	86	24.5	960
Jul-19-2016	80	24.2	989
Jul-20-2016	75	24.5	1,002
Jul-21-2016	74	24.8	929
Jul-22-2016	64	24.5	1,035
Jul-23-2016	47	24.8	1,131
Jul-24-2016	47	26.0	1,120
Jul-25-2016	48	26.8	1,053
Jul-26-2016	52	26.7	1,080
Jul-27-2016	59	27.2	1,063
Jul-28-2016	63	27.6	1,080
Jul-29-2016	57	27.7	1,060
Jul-30-2016	51	27.9	1,128
Jul-31-2016	47	27.1	1,110
Aug-01-2016	56	26.2	1,075
Aug-02-2016	69	25.9	956
Aug-03-2016	73	26.0	962
Aug-04-2016	78	25.6	953

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Aug-05-2016	85	24.8	994
Aug-06-2016	91	24.7	902
Aug-07-2016	93	24.4	859
Aug-08-2016	86	24.3	939
Aug-09-2016	78	24.5	944
Aug-10-2016	78	24.8	853
Aug-11-2016	82	25.1	773
Aug-12-2016	77	25.2	784
Aug-13-2016	60	25.5	925
Aug-14-2016	51	26.0	943
Aug-15-2016	55	25.9	786
Aug-16-2016	58	25.6	790
Aug-17-2016	54	25.9	858
Aug-18-2016	60	25.8	881
Aug-19-2016	68	25.4	866
Aug-20-2016	77	25.2	834
Aug-21-2016	81	25.1	848
Aug-22-2016	85	24.7	832
Aug-23-2016	87	24.5	829
Aug-24-2016	84	24.4	892
Aug-25-2016	79	24.2	896
Aug-26-2016	72	23.7	964
Aug-27-2016	66	23.2	971
Aug-28-2016	63	23.2	1,001
Aug-29-2016	63	23.4	983
Aug-30-2016	68	23.5	919
Aug-31-2016	66	23.9	916
Sep-01-2016	72	23.4	899
Sep-02-2016	71	23.2	894
Sep-03-2016	61	23.1	1,022
Sep-04-2016	56	21.4	1,018
Sep-05-2016	55	21.0	966
Sep-06-2016	57	21.3	951
Sep-07-2016	53	22.1	962
Sep-08-2016	42	23.0	1,098
Sep-09-2016	36	23.1	1,175
Sep-10-2016	34	23.7	1,257
Sep-11-2016	43	24.1	1,248
Sep-12-2016	57	22.7	969
Sep-13-2016	68	20.3	955
Sep-14-2016	66	20.0	1,017
Sep-15-2016	61	20.7	1,036
Sep-16-2016	60	21.2	1,042
Sep-17-2016	54	22.0	1,121

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Sep-18-2016	52	22.7	1,098
Sep-19-2016	58	23.3	1,015
Sep-20-2016	68	23.4	892
Sep-21-2016	65	22.6	946
Sep-22-2016	48	19.7	1,100
Sep-23-2016	38	18.6	1,265
Sep-24-2016	40	19.4	1,285
Sep-25-2016	49	20.6	1,097
Sep-26-2016	56	21.6	1,021
Sep-27-2016	64	22.2	1,019
Sep-28-2016	54	22.4	1,136
Sep-29-2016	39	22.2	1,288
Sep-30-2016	35	20.7	1,322
Oct-01-2016	31	18.9	1,429
Oct-02-2016	28	18.0	1,487
Oct-03-2016	31	17.0	1,471
Oct-04-2016	36	17.1	1,395
Oct-05-2016	36	17.1	1,390
Oct-06-2016	31	17.0	1,436
Oct-07-2016	31	17.3	1,546
Oct-08-2016	33	18.0	1,507
Oct-09-2016	32	18.8	1,509
Oct-10-2016	30	19.3	1,542
Oct-11-2016	31	19.0	1,540
Oct-12-2016	43	18.7	1,496
Oct-13-2016	54	18.5	1,349
Oct-14-2016	59	18.3	1,241
Oct-15-2016	58	19.1	1,313
Oct-16-2016	56	19.4	1,407
Oct-17-2016	61	18.5	1,398
Oct-18-2016	66	17.3	1,291
Oct-19-2016	69	16.5	1,357
Oct-20-2016	71	16.5	1,383
Oct-21-2016	74	17.0	1,355
Oct-22-2016	71	17.4	1,399
Oct-23-2016	67	17.9	1,475
Oct-24-2016	74	18.2	1,433
Oct-25-2016	78	18.0	1,395
Oct-26-2016	73	17.8	1,467
Oct-27-2016	64	17.5	1,517
Oct-28-2016	70	17.7	1,491
Oct-29-2016	84	18.4	1,424
Oct-30-2016	108	18.4	1,198
Oct-31-2016	128	17.6	1,239

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Nov-01-2016	131	17.2	1,262
Nov-02-2016	121	16.3	1,406
Nov-03-2016	98	16.0	1,496
Nov-04-2016	79	16.0	1,517
Nov-05-2016	74	16.1	1,484
Nov-06-2016	80	16.5	1,417
Nov-07-2016	85	17.0	1,381
Nov-08-2016	84	17.1	1,397
Nov-09-2016	90	17.2	1,367
Nov-10-2016	94	17.2	1,343
Nov-11-2016	91	17.5	1,400
Nov-12-2016	87	17.8	1,424
Nov-13-2016	83	17.3	1,444
Nov-14-2016	84	16.8	1,416
Nov-15-2016	91	16.5	1,363
Nov-16-2016	95	15.8	1,363
Nov-17-2016	94	13.7	1,366
Nov-18-2016	94	12.5	1,330
Nov-19-2016	99	12.3	1,272
Nov-20-2016	108	13.2	1,249
Nov-21-2016	117	13.6	1,271
Nov-22-2016	127	12.9	1,234
Nov-23-2016	132	13.1	1,241
Nov-24-2016	133	12.2	1,264
Nov-25-2016	132	11.4	1,300
Nov-26-2016	136	11.0	1,244
Nov-27-2016	140	11.3	1,216
Nov-28-2016	140	11.5	1,278
Nov-29-2016	138	11.1	1,344
Nov-30-2016	135	10.5	1,381
Dec-01-2016	130	10.8	1,468
Dec-02-2016	129	10.0	1,445
Dec-03-2016	133	9.4	1,408
Dec-04-2016	142	9.3	1,372
Dec-05-2016	153	9.2	1,324
Dec-06-2016	158	9.6	1,409
Dec-07-2016	148	9.3	1,600
Dec-08-2016	134	10.1	1,709
Dec-09-2016	126	11.5	1,630
Dec-10-2016	123	12.8	1,671
Dec-11-2016	119	13.2	1,693
Dec-12-2016	111	12.8	1,721
Dec-13-2016	103	12.5	1,748
Dec-14-2016	102	12.8	1,740

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-15-2016	101	13.0	1,704
Dec-16-2016	104	12.6	1,718
Dec-17-2016	107	10.3	1,649
Dec-18-2016	110	8.5	1,750
Dec-19-2016	98	7.6	1,832
Dec-20-2016	94	7.7	1,921
Dec-21-2016	82	8.3	1,991
Dec-22-2016	69	8.9	1,991
Dec-23-2016	66	9.3	1,965
Dec-24-2016	73	9.1	1,973
Dec-25-2016	76	8.3	2,005
Dec-26-2016	76	7.9	2,031
Dec-27-2016	75	7.9	2,039
Dec-28-2016	64	8.1	2,067
Dec-29-2016	60	8.4	2,066
Dec-30-2016	58	8.8	2,001
Dec-31-2016	58	9.4	1,956

NOTES:

USGS data webpage

http://waterdata.usgs.gov/nwis/dv/?site_no=11261100&agency_cd=USGS&referred_module=sw

Table 6b. Monthly averages and totals

PARAMETER	Total Flow	Average Temperature	Average Specific Conductance
DATA SOURCE	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm
Jan-16	6,390	11.0	1,655
Feb-16	6,800	13.9	1,913
Mar-16	10,760	16.8	1,701
Apr-16	7,470	19.3	1,922
May-16	6,210	21.6	1,596
Jun-16	4,900	24.8	1,378
Jul-16	4,390	25.8	1,078
Aug-16	4,450	24.9	901
Sep-16	3,200	21.9	1,070
Oct-16	3,520	17.9	1,416
Nov-16	6,330	14.6	1,349
Dec-16	6,310	9.9	1,761

NOTES:

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

PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity			
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-04-2016								
Jan-11-2016	10.2	8.1	1,890	11.5	21.7	< 0.4	1.1	
Jan-21-2016	9.1	7.4	1,572	14.9	43.5	0.923 U	1.1	
Jan-28-2016	11.0	8.0	1,676	13.0	39.4	1.01 U	1.3	8
Feb-04-2016	12.0	8.1	2,027	10.8	23.2	0.5	1.1	
Feb-11-2016	9.0	8.5	2,145	16.3	35.3	<0.4	1.1	
Feb-17-2016	8.2	8.2	1,889	16.5	35.0	<0.4	1.0	11
Feb-26-2016		8.3	2,104	17.9	27.2	<0.4	1.1	
Mar-03-2016	8.5	8.2	1,641	18.3	18.5	<0.4	0.9	
Mar-10-2016	7.4	7.9	1,477	16.9	11.9	0.5	0.9	
Mar-17-2016	7.9	7.6	1,769	17.4	10.4	<0.4	1.1	10
Mar-25-2016		8.1	1,576	14.7	14.9	0.4	1.5	
Mar-31-2016	7.9	8.0	1,987	17.7	14.0	<0.4	1.5	
Apr-07-2016	7.8	8.1	2,100	21.4	22.9	<0.4	1.3	
Apr-14-2016	9.5	8.3	1,694	19.4	10.8	0.5	1.3	
Apr-21-2016	8.8	8.0	1,992	22.6	17.9	<0.4	1.1	11
Apr-28-2016	7.7	7.8	2,140	18.2	25.9	<0.4	1.0	
May-05-2016	8.4	8.1	1,919	20.6	27.4	<0.4	1.2	
May-11-2016	7.4	7.6	1,524	22.3	19.0	0.7	1.1	
May-19-2016	9.7	8.3	1,967	23.9	30.0	<0.4	1.1	
May-26-2016	10.7	8.6	1,251	21.5	224.5	<0.4	0.7	7
Jun-02-2016	10.0	8.3	1,441	26.3	26.0	<0.4	0.6	
Jun-10-2016	9.7	8.3	1,370	24.2	36.2	<0.4	0.6	
Jun-14-2016	8.5	8.5	1,205	22.5	30.1	<0.4	0.5	
Jun-21-2016	7.8	8.4	1,371	23.6	49.5	<0.4	0.6	
Jun-28-2016	7.7	7.8	1,314	28.0	44.2	<0.4	0.6	8
Jul-05-2016	7.1	7.9	1,184	26.4	57.8	<0.4	0.5	
Jul-12-2016	7.1	7.8	980	25.8	32.2	<0.4	0.4	
Jul-20-2016	7.0	7.9	1,066	25.3	51.8	<0.4	0.4	
Jul-29-2016		8.0	1,072	28.9	51.5	<0.4	0.4	
Aug-02-2016		7.6	970	25.2	45.8	<0.4	0.4	
Aug-10-2016	8.6	8.0	872	24.4		<0.4	0.3	
Aug-17-2016	7.0	8.0	885	25.2	61.5	<0.4	0.3	
Aug-31-2016	9.8	8.0	1,185	24.9	57.4	<0.4	0.3	
Sep-07-2016								
Sep-12-2016	9.7	8.1	971	20.8	76.5	<0.4	0.4	
Sep-19-2016	11.5	7.9	1,088	21.8	62.4	<0.4	0.4	
Sep-27-2016	9.4	8.0	1,294	22.4	57.6	<0.4	0.6	
Oct-03-2016	15.5	7.7	1,528	16.3		<0.4	0.8	
Oct-12-2016		7.8	1,509	20.4	71.9	<0.4	0.7	
Oct-17-2016	8.0	7.8	1,422	18.0	62.4	<0.4	0.7	
Oct-24-2016	9.3	7.8	1,452	17.9	81.2	<0.4	0.7	
Nov-01-2016	8.0	7.7	1,292	17.6	42.3	0.5	0.7	
Nov-07-2016	9.4	8.0	1,436	17.5	39.8	<0.4	0.7	
Nov-14-2016	8.9	7.7	1,435	17.9	34.2	<0.4	0.7	
Nov-22-2016	10.3	7.9	1,270	14.1	35.4	<0.4	0.7	
Dec-01-2016	12.4	8.0	1,505	11.6	16.4	< 0.4	0.7	
Dec-05-2016	15.8	8.2	1,415	9.9	24.9	< 0.4	0.4	
Dec-12-2016		7.9	1,761	13.4	26.3	0.5	0.8	
Dec-22-2016	10.5	7.9	2,020	10.3	18.5	< 0.4	0.9	
Dec-29-2016	10.9	8.0	2,144	10.0	16.0	< 0.4	1.1	

NOTES:

PARAMETER	Nutrients				
	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-28-2016	0.69	0.37			
Feb-17-2016	0.78	0.13			
Mar-17-2016	0.96	0.09			
Apr-21-2016	0.71 T,V	0.15			
May-26-2016	0.70	0.09			
Jun-28-2016					
Jul-20-2016					
Aug-17-2016					
Sep-27-2016					
Oct-24-2016					
Nov-22-2016					
Dec-29-2016					

NOTES: TKN, Total P, and Ortho P removed from monitoring program in 2015 GBP WDR

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

PARAMETER	Flow	Specific Conductance	Total Selenium	Boron
DATA SOURCE	GWD	USBR	USBR	USBR
UNITS	cfs	µS/cm	µg/L	mg/L

NOTES:

Samples only collected when more than 20 cfs is passing site.
 Water passing this site at less than 20 cfs does not reach Grassland Wetlands.
 All data from MP-157 database

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

PARAMETER	Flow	Specific Conductance	Total Selenium	Boron
DATA SOURCE	GWD	SLDMWA	SLDMWA	USBR
UNITS	cfs	µS/cm	µg/L	mg/L

NOTES:

Samples only collected when more than 20 cfs is passing site.
 Water passing this site at less than 20 cfs does not reach Grassland Wetlands.
 All data from MP-157 database

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

USGS Station Code: 11273400

PARAMETER	Flow	Temperature	Specific Conductance	Dissolved Oxygen
DATA SOURCE	USGS	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm	mg/L
Jan-01-2016	205	6.7	2,139	10.5
Jan-02-2016	186	7.2	2,212	10.5
Jan-03-2016	178	7.5	2,215	10.3
Jan-04-2016	171	7.9	2,309	10.1
Jan-05-2016	174	8.8	2,358	9.8
Jan-06-2016	196	9.0	2,306	9.3
Jan-07-2016	362	9.3	2,066	9.4
Jan-08-2016	1,030	8.8	1,719	9.2
Jan-09-2016	1,070	9.4	1,029	8.6
Jan-10-2016	1,070	9.3	923	8.4
Jan-11-2016	905	9.6	1,203	8.1
Jan-12-2016	716	9.5	1,361	7.8
Jan-13-2016	555	10.1	1,506	7.7
Jan-14-2016	416	10.1	1,594	7.8
Jan-15-2016	342	10.8	1,643	7.8
Jan-16-2016	310	11.6	1,718	7.7
Jan-17-2016	302	11.7	1,792	7.5
Jan-18-2016	318	12.5	1,781	7.6
Jan-19-2016	505	12.8	1,788	7.4
Jan-20-2016	1,220	12.9	1,291	7.4
Jan-21-2016	1,900	12.7	632	7.0
Jan-22-2016	1,920	12.4	721	6.7
Jan-23-2016	1,770	12.4	958	6.6
Jan-24-2016	1,760	12.2	975	6.8
Jan-25-2016	2,010	12.1	763	6.9
Jan-26-2016	1,930		887	6.7
Jan-27-2016	1,610	11.9	1,082	6.6
Jan-28-2016	1,280	11.7	1,241	6.7
Jan-29-2016	1,040	12.1	1,368	6.7
Jan-30-2016	902	12.8	1,437	6.6
Jan-31-2016	805	12.6	1,471	6.6
Feb-01-2016	732	10.3	1,550	8.0
Feb-02-2016	818	9.8	1,450	8.6
Feb-03-2016	889	9.4	1,331	9.1
Feb-04-2016	809	9.7	1,529	8.8
Feb-05-2016	706	10.3	1,624	8.4
Feb-06-2016	615	11.0	1,761	8.0
Feb-07-2016	529	11.8	1,879	7.7
Feb-08-2016	458	12.7	1,969	7.5
Feb-09-2016	401	13.4	2,053	7.4
Feb-10-2016	354	13.9	2,141	7.3
Feb-11-2016	328	14.4	2,286	7.3
Feb-12-2016	317	15.0	2,397	7.3
Feb-13-2016	309	15.5	2,511	7.4
Feb-14-2016	305	15.3	2,474	7.6
Feb-15-2016	303	15.8	2,381	7.8
Feb-16-2016	302	16.2	2,346	8.0
Feb-17-2016	300	16.1	2,331	7.5
Feb-18-2016	298	15.2	2,304	7.8

PARAMETER	Flow	Temperature	Specific Conductance	Dissolved Oxygen
DATA SOURCE	USGS	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm	mg/L
Feb-19-2016	303	14.6	2,242	8.1
Feb-20-2016	312	14.6	2,196	8.3
Feb-21-2016	313	14.7	2,214	8.5
Feb-22-2016	309	14.8	2,236	8.7
Feb-23-2016	299	14.9	2,260	8.6
Feb-24-2016	283	15.3	2,385	8.4
Feb-25-2016	283	15.9	2,352	8.2
Feb-26-2016	281	16.4	2,313	8.1
Feb-27-2016	282	17.0	2,297	8.0
Feb-28-2016	289	16.7	2,231	7.8
Feb-29-2016	295	16.7	2,133	8.0
Mar-01-2016	304	17.5	2,083	7.9
Mar-02-2016	303	17.7	2,114	7.8
Mar-03-2016	307	17.8	2,043	7.8
Mar-04-2016	336	18.4	1,936	7.2
Mar-05-2016	389	17.9	1,886	6.9
Mar-06-2016	470	17.0	1,860	7.4
Mar-07-2016	764	16.0	1,749	7.7
Mar-08-2016	1,250	15.3	1,360	7.6
Mar-09-2016	1,690	15.1	992	7.4
Mar-10-2016	1,840	15.8	1,011	6.9
Mar-11-2016	1,700	15.9	1,218	6.5
Mar-12-2016	1,470	15.7	1,316	6.7
Mar-13-2016	1,670	15.3	1,227	7.0
Mar-14-2016	1,890	14.9	877	7.1
Mar-15-2016		15.0	780	7.2
Mar-16-2016		15.5	666	6.8
Mar-17-2016		16.5	817	6.5
Mar-18-2016	2,210	17.9	981	6.2
Mar-19-2016	1,740	18.8	1,118	6.0
Mar-20-2016	1,350	19.5	1,238	6.1
Mar-21-2016	1,080	19.5	1,347	6.0
Mar-22-2016	912	18.3	1,442	6.4
Mar-23-2016	819	17.4	1,554	7.2
Mar-24-2016	768	17.5	1,621	7.9
Mar-25-2016	728	18.1	1,705	8.4
Mar-26-2016	679	18.4	1,818	8.7
Mar-27-2016	644	19.0	1,895	9.2
Mar-28-2016	602	18.6	2,004	9.2
Mar-29-2016	550	17.4	2,095	9.3
Mar-30-2016	500	17.4	2,244	9.5
Mar-31-2016	466	18.0	2,339	9.5
Apr-01-2016	430	18.8	2,384	9.4
Apr-02-2016	402	19.7	2,474	9.1
Apr-03-2016	371	20.5	2,525	8.2
Apr-04-2016	339	20.4	2,558	7.7
Apr-05-2016	325	20.0	2,576	7.6
Apr-06-2016	322	20.6	2,506	8.0
Apr-07-2016	316	21.4	2,439	7.8
Apr-08-2016	305	20.8	2,474	7.9
Apr-09-2016	322	20.0	2,527	7.7

PARAMETER	Flow	Temperature	Specific Conductance	Dissolved Oxygen
DATA SOURCE	USGS	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm	mg/L
Apr-10-2016	351	18.9	2,439	7.5
Apr-11-2016	439	19.6	2,203	8.7
Apr-12-2016	505	20.3	2,543	8.8
Apr-13-2016	466	20.3	2,400	8.7
Apr-14-2016	411	20.2	2,245	8.7
Apr-15-2016	387	18.6	2,103	9.1
Apr-16-2016	357	18.4	2,220	9.8
Apr-17-2016	334	20.2	2,335	10.1
Apr-18-2016	323	22.0	2,294	10.1
Apr-19-2016	310	22.9	2,256	9.5
Apr-20-2016	306	22.9	2,282	8.8
Apr-21-2016	291	22.8	2,311	8.0
Apr-22-2016	269	21.4	2,439	7.2
Apr-23-2016	250	20.2	2,526	7.9
Apr-24-2016	240	20.5	2,507	8.0
Apr-25-2016	235	18.9	2,563	8.5
Apr-26-2016	234	18.5	2,520	9.1
Apr-27-2016	227	18.7	2,527	8.9
Apr-28-2016	222	19.1	2,617	9.1
Apr-29-2016	211	20.5	2,806	8.8
Apr-30-2016	196	20.0	2,985	8.9
May-01-2016	190	21.0	2,981	9.2
May-02-2016	193	22.3	2,702	10.0
May-03-2016	204	22.7	2,416	10.2
May-04-2016	203	22.3	2,343	9.7
May-05-2016	200	21.0	2,355	9.3
May-06-2016	186	19.3	2,523	8.2
May-07-2016	196	18.7	2,732	8.7
May-08-2016	235	20.3	3,128	9.5
May-09-2016	256	22.2	2,994	11.5
May-10-2016	251	23.1	2,723	11.9
May-11-2016	243	24.1	2,504	12.2
May-12-2016	225	24.8	2,462	12.1
May-13-2016	206	24.9	2,564	10.6
May-14-2016	190	24.0	2,503	9.3
May-15-2016	177	23.6	2,612	8.9
May-16-2016	168	23.6	2,606	9.3
May-17-2016	163	23.5	2,622	9.3
May-18-2016	160	24.7	2,668	9.2
May-19-2016	150	25.0	2,758	9.2
May-20-2016	144	22.1	2,729	10.0
May-21-2016	135	20.3	2,672	10.2
May-22-2016	136	20.3	2,644	11.3
May-23-2016	142	21.2	2,431	9.9
May-24-2016	143	21.8	2,272	8.8
May-25-2016	154	22.2	2,104	9.5
May-26-2016	174	23.2	1,938	10.5
May-27-2016	188	24.0	1,757	11.4
May-28-2016	192	24.0	1,840	10.7
May-29-2016	181	24.7	1,963	9.9
May-30-2016	172	25.4	2,035	9.6

PARAMETER	Flow	Temperature	Specific Conductance	Dissolved Oxygen
DATA SOURCE	USGS	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm	mg/L
May-31-2016	161	26.3	1,976	9.2
Jun-01-2016	150	27.3	1,992	9.2
Jun-02-2016	143	27.3	1,887	8.8
Jun-03-2016	135	27.2	1,897	9.3
Jun-04-2016	132	26.9	1,912	9.2
Jun-05-2016	133	26.9	1,970	10.4
Jun-06-2016	142	27.1	2,050	10.1
Jun-07-2016	130	27.4	2,090	9.7
Jun-08-2016	125	26.4	2,004	8.8
Jun-09-2016	120	25.6	2,007	8.4
Jun-10-2016	120	25.3	1,908	8.6
Jun-11-2016	117	23.6	1,876	9.4
Jun-12-2016	112	24.3	1,895	10.0
Jun-13-2016	112	25.7	1,975	9.9
Jun-14-2016	112	24.8	1,989	9.1
Jun-15-2016	121	23.4	1,920	8.2
Jun-16-2016	121	22.9	1,724	8.4
Jun-17-2016	115	24.5	1,797	9.4
Jun-18-2016	108	24.3	1,862	9.8
Jun-19-2016	112	24.5	1,732	11.2
Jun-20-2016	109	25.2	1,714	9.4
Jun-21-2016	111	25.4	1,628	9.0
Jun-22-2016	109	26.2	1,667	9.2
Jun-23-2016	114	25.9	1,734	8.9
Jun-24-2016	115	25.6	1,630	8.1
Jun-25-2016	115	25.4	1,661	7.9
Jun-26-2016	110	26.5	1,830	8.0
Jun-27-2016	102	27.3	1,924	8.3
Jun-28-2016	92	27.8	2,033	8.3
Jun-29-2016	89	28.1	1,986	8.8
Jun-30-2016	91	27.6	1,902	9.6
Jul-01-2016	84	28.4	1,904	8.7
Jul-02-2016	79	28.4	2,079	8.1
Jul-03-2016	69	27.8	2,305	8.5
Jul-04-2016	67	27.2	2,277	8.6
Jul-05-2016	67	27.1	2,182	9.2
Jul-06-2016	69	26.5	1,924	9.7
Jul-07-2016	73	26.3	1,851	9.0
Jul-08-2016	70	26.2	1,833	8.8
Jul-09-2016	70	26.1	1,845	8.5
Jul-10-2016	69	24.8	1,755	9.0
Jul-11-2016	74	24.8	1,575	8.2
Jul-12-2016	79	25.6	1,403	7.7
Jul-13-2016	85	26.0	1,284	7.8
Jul-14-2016	96	27.3	1,181	7.7
Jul-15-2016	98	27.9	1,268	7.7
Jul-16-2016	91	27.7	1,421	7.7
Jul-17-2016	81	27.4	1,374	7.7
Jul-18-2016	76	26.4	1,409	7.9
Jul-19-2016	74	25.7	1,425	8.1
Jul-20-2016	72	25.6	1,531	8.3

PARAMETER	Flow	Temperature	Specific Conductance	Dissolved Oxygen
DATA SOURCE	USGS	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm	mg/L
Jul-21-2016	70	25.7	1,594	8.3
Jul-22-2016	68	25.4	1,613	8.2
Jul-23-2016	64	26.0	1,734	9.1
Jul-24-2016	61	27.4	1,976	9.3
Jul-25-2016	61	28.0	2,169	9.4
Jul-26-2016	63	27.8	2,210	8.5
Jul-27-2016	60	28.4	2,047	8.7
Jul-28-2016	59	28.8	1,876	7.5
Jul-29-2016	61	28.9	1,749	7.2
Jul-30-2016	61	28.7	1,893	7.9
Jul-31-2016	57	27.8	1,937	8.0
Aug-01-2016	57	26.8	1,991	8.1
Aug-02-2016	63	26.8	1,907	8.2
Aug-03-2016	63	27.2	1,699	7.7
Aug-04-2016	65	26.5	1,504	7.4
Aug-05-2016	68	25.8	1,493	7.6
Aug-06-2016	72	25.9	1,436	8.2
Aug-07-2016	78	25.6	1,361	8.3
Aug-08-2016	81	25.5	1,321	8.4
Aug-09-2016	79	25.6	1,409	8.5
Aug-10-2016	75	25.9	1,520	8.2
Aug-11-2016	79	26.3	1,534	8.4
Aug-12-2016	80	26.5	1,403	7.9
Aug-13-2016	76	26.6	1,231	7.9
Aug-14-2016	66	26.9	1,377	7.8
Aug-15-2016	57	26.5	1,628	8.1
Aug-16-2016	52	26.3	1,542	8.7
Aug-17-2016	51	26.8	1,391	8.7
Aug-18-2016	55	26.7	1,505	8.9
Aug-19-2016	57	26.3	1,631	9.1
Aug-20-2016	58	26.2	1,460	8.9
Aug-21-2016	65	25.8	1,321	8.3
Aug-22-2016	71	25.4	1,354	8.3
Aug-23-2016	76	25.4	1,314	8.1
Aug-24-2016	77	25.1	1,257	8.1
Aug-25-2016	78	24.8	1,309	8.2
Aug-26-2016	72	24.7	1,299	8.5
Aug-27-2016	70	24.4	1,390	8.6
Aug-28-2016	67	24.3	1,576	8.9
Aug-29-2016	63	24.1	1,590	8.8
Aug-30-2016	65	24.2	1,581	8.3
Aug-31-2016	72	24.8	1,425	8.2
Sep-01-2016	73	24.0	1,344	8.3
Sep-02-2016	73	23.9	1,386	8.4
Sep-03-2016	69	23.9	1,356	8.3
Sep-04-2016	67	22.7	1,493	8.4
Sep-05-2016	67	22.5	1,587	8.4
Sep-06-2016	65	22.6	1,540	8.5
Sep-07-2016	65	23.2	1,438	8.6
Sep-08-2016	65	23.7	1,525	8.3
Sep-09-2016	56	23.8	1,659	8.1

PARAMETER	Flow	Temperature	Specific Conductance	Dissolved Oxygen
DATA SOURCE	USGS	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm	mg/L
Sep-10-2016	49	24.3	1,949	8.1
Sep-11-2016	43	24.7	2,091	7.9
Sep-12-2016	42	23.9	2,124	8.1
Sep-13-2016	46	21.7	1,827	8.5
Sep-14-2016	50	21.3	1,537	8.7
Sep-15-2016	52	21.8	1,456	9.0
Sep-16-2016	52	22.1	1,595	8.4
Sep-17-2016	49	22.8	1,633	8.5
Sep-18-2016	56	23.3	1,723	7.8
Sep-19-2016	61	24.0	1,706	7.7
Sep-20-2016	59	23.8	1,653	7.8
Sep-21-2016	67	23.2	1,544	7.7
Sep-22-2016	74	20.3	1,381	8.1
Sep-23-2016	69	19.6	1,603	8.6
Sep-24-2016	63	20.4	1,999	8.5
Sep-25-2016	59	21.7	2,380	8.2
Sep-26-2016	62	22.7	2,538	8.3
Sep-27-2016	71	23.0	2,133	8.0
Sep-28-2016	76	23.1	1,805	7.9
Sep-29-2016	74	22.9	1,903	7.9
Sep-30-2016	67	21.1	2,224	8.1
Oct-01-2016	64	19.6	2,158	8.4
Oct-02-2016	65	18.7	2,242	8.5
Oct-03-2016	65	17.4	2,297	8.5
Oct-04-2016	64	17.7	2,256	8.7
Oct-05-2016	71	17.6	2,112	8.5
Oct-06-2016	64	17.5	2,029	8.9
Oct-07-2016	61	17.7	2,051	8.9
Oct-08-2016	59	18.3	2,156	8.6
Oct-09-2016	62	19.1	2,130	8.3
Oct-10-2016	65	19.4	2,079	8.0
Oct-11-2016	69	19.4	2,015	7.7
Oct-12-2016	72	19.5	2,023	7.5
Oct-13-2016	76	19.1	1,969	7.3
Oct-14-2016	81	18.5	1,789	6.7
Oct-15-2016	158	19.2	1,607	6.8
Oct-16-2016	274	19.4	1,640	6.1
Oct-17-2016	273	18.9	1,735	6.3
Oct-18-2016	241	18.1	1,716	6.5
Oct-19-2016	240	17.2	1,575	6.7
Oct-20-2016	411	17.2	1,572	6.7
Oct-21-2016	550	17.6	1,643	6.4
Oct-22-2016	492	18.1	1,674	6.3
Oct-23-2016	392	18.6	1,701	6.2
Oct-24-2016	337	18.9	1,771	5.9
Oct-25-2016	406	18.4	1,816	5.9
Oct-26-2016	626	18.3	1,724	5.9
Oct-27-2016	638	18.1	1,697	5.4
Oct-28-2016	526	17.9	1,772	5.6
Oct-29-2016	470	18.9	1,734	5.2
Oct-30-2016	417	19.1	1,557	4.5

PARAMETER	Flow	Temperature	Specific Conductance	Dissolved Oxygen
DATA SOURCE	USGS	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm	mg/L
Oct-31-2016	411	18.1	1,418	4.5
Nov-01-2016	421	18.1	1,336	4.4
Nov-02-2016	438	17.3	1,313	4.6
Nov-03-2016	440	17.1	1,340	4.7
Nov-04-2016	404	16.9	1,489	4.8
Nov-05-2016	347	16.9	1,630	4.9
Nov-06-2016	323	17.0	1,738	5.0
Nov-07-2016	312	17.5	1,758	5.2
Nov-08-2016	293	17.8	1,790	5.3
Nov-09-2016	276	17.9	1,811	5.4
Nov-10-2016	270	18.0	1,868	5.6
Nov-11-2016	275	18.2	1,855	5.5
Nov-12-2016	286	18.4	1,932	5.7
Nov-13-2016	283	17.9	1,959	5.8
Nov-14-2016	278	17.4	1,993	6.0
Nov-15-2016	272	17.1	1,996	6.2
Nov-16-2016	267	16.3	1,981	6.4
Nov-17-2016	259	14.2	1,966	7.1
Nov-18-2016	253	13.0	1,962	7.7
Nov-19-2016	247	12.9	1,955	8.0
Nov-20-2016	246	13.9	1,843	7.5
Nov-21-2016	251	14.1	1,709	7.4
Nov-22-2016	267	13.5	1,616	7.7
Nov-23-2016	272	13.6	1,554	7.9
Nov-24-2016	279	12.5	1,523	8.1
Nov-25-2016	291	11.8	1,513	8.4
Nov-26-2016	304	11.4	1,501	8.4
Nov-27-2016	312	11.7	1,488	8.6
Nov-28-2016	324	11.8	1,442	8.5
Nov-29-2016	359	11.2	1,376	8.8
Nov-30-2016	373	10.9	1,482	8.9
Dec-01-2016	353	11.1	1,801	8.9
Dec-02-2016	323	10.0	1,787	9.3
Dec-03-2016	295	9.6	1,774	9.6
Dec-04-2016	295	9.6	1,718	9.8
Dec-05-2016	299	9.5	1,680	9.7
Dec-06-2016	300	10.1	1,688	9.7
Dec-07-2016	295	9.4	1,761	9.6
Dec-08-2016	293	10.1	1,832	9.6
Dec-09-2016	280	11.6	1,926	9.3
Dec-10-2016	281	12.8	2,010	8.4
Dec-11-2016	292	13.2	2,029	8.2
Dec-12-2016	290	12.7	2,090	8.4
Dec-13-2016	281	12.6	2,107	8.4
Dec-14-2016	272	12.9	2,162	8.3
Dec-15-2016	267	13.1	2,158	7.9
Dec-16-2016	272	12.9	2,142	8.1
Dec-17-2016	298	10.6	2,124	8.7
Dec-18-2016	440	8.8	2,023	9.6
Dec-19-2016	591	8.2	1,861	9.9
Dec-20-2016	573	7.8	1,964	9.7

PARAMETER	Flow	Temperature	Specific Conductance	Dissolved Oxygen
DATA SOURCE	USGS	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm	mg/L
Dec-21-2016	470	7.9	2,162	9.9
Dec-22-2016	374	8.2	2,229	9.8
Dec-23-2016	320	8.4	2,243	9.4
Dec-24-2016	300	8.3	2,330	9.4
Dec-25-2016	302	7.9	2,518	9.9
Dec-26-2016	324	7.6	2,694	10.3
Dec-27-2016	354	7.4	2,407	10.6
Dec-28-2016	349	7.5	2,287	10.7
Dec-29-2016	314	7.7	2,496	10.6
Dec-30-2016	274	8.1	2,475	10.2
Dec-31-2016	256	8.8	2,426	10.0

NOTES:

USGS data webpage

http://waterdata.usgs.gov/nwis/dv/?site_no=11273400&agency_cd=USGS&referred_module=sw

Table 8b. Monthly averages and totals

PARAMETER	Total Flow	Average Temperature	Average Specific Conductance	Average Dissolved Oxygen
DATA SOURCE	Calculated	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm	mg/L
Jan-16	53,870	10.6	1,500	7.96
Feb-16	23,850	14.0	2,109	8.00
Mar-16	54,410	17.2	1,527	7.48
Apr-16	19,230	20.2	2,453	8.59
May-16	11,340	22.8	2,470	9.98
Jun-16	6,970	25.9	1,873	9.12
Jul-16	4,420	27.0	1,762	8.36
Aug-16	4,170	25.8	1,476	8.30
Sep-16	3,650	22.7	1,738	8.24
Oct-16	15,470	18.4	1,860	6.94
Nov-16	18,290	15.2	1,691	6.62
Dec-16	20,290	9.8	2,094	9.41

NOTES:

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

PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity			
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-04-2016								
Jan-11-2016	9.4	7.4	1,247	10.0	51.5	1.3	1.5	
Feb-04-2016	14.8	7.8	1,663	10.9	26.5	2.7	1.8	
Feb-11-2016	9.1	7.7	2,530	15.0	25.0	2.3	2.0	
Feb-17-2016	9.3	7.7	2,353	16.0	24.3	1.4	1.8	10
Feb-26-2016		7.8	2,330	17.2	26.5	0.8	1.6	
Mar-03-2016	8.7	7.8	2,061	18.0	27.3	1.0	1.5	
Mar-31-2016	9.9	8.0	2,310	17.9	41.4	0.6	1.8	
Apr-07-2016	8.6	7.9	2,458	22.1	44.0	0.8	1.8	
Apr-14-2016	9.6	7.7	2,159	19.4	42.3	1.5	1.9	
Apr-21-2016	10.4	7.9	2,321	23.0	38.3	0.6	1.5	11
Apr-28-2016	9.4	7.8	2,610	18.5	33.4	0.5	1.6	
May-05-2016	9.3	7.6	2,262	20.4	42.6	0.5	1.2	
May-11-2016	11.7	8.3	2,277	24.8	46.0	2.8	2.6	
May-19-2016	9.2	8.0	2,786	24.3	65.2	0.7	1.7	
May-26-2016	11.0	7.9	1,911	21.6	32.2	0.4	1.2	10
Jun-02-2016	7.8	7.9	2,004	26.3	49.0	0.4	1.0	
Jun-10-2016	10.8	7.9	1,955	24.5	53.3	< 0.4	1.0	
Jun-14-2016	9.2	7.8	2,050	23.4	47.8	< 0.4	1.0	
Jun-21-2016	8.5	7.7	1,734	23.0	45.2	0.4	0.9	
Jun-28-2016	8.6	8.1	2,116	27.6	64.9	< 0.4	1.0	9
Jul-05-2016	9.1	8.3	2,438	26.8	49.7	< 0.4	1.1	
Jul-12-2016	7.9	8.0	1,431	25.6	46.3	< 0.4	0.7	
Jul-20-2016	8.5	8.2	1,583	25.6	38.7	< 0.4	0.7	7
Jul-29-2016		8.3	1,791	29.2	33.8	< 0.4	0.8	
Aug-02-2016		8.3	1,968	27.0	28.7	< 0.4	0.9	
Aug-10-2016	8.5	7.8	1,511	24.0	48.3	< 0.4	0.7	
Aug-17-2016	8.0	7.9	1,450	24.4	32.0	< 0.4	0.6	6
Aug-25-2016	9.4	7.9	1,261	23.2	46.7	< 0.4	0.5	
Aug-31-2016	10.1	8.0	1,421	25.2	65.6	< 0.4	0.6	
Sep-07-2016								
Sep-19-2016	11.4	7.7	1,648	21.2	62.7	< 0.4	0.8	
Sep-27-2016	9.3	7.8	1,888	22.6	60.8	0.9	1.6	10
Oct-03-2016	14.5	7.4	2,334	15.9		0.8	1.5	
Oct-12-2016		7.7	2,052	20.0	31.3	0.8	1.2	
Oct-17-2016	7.0	7.6	1,744	17.7	27.4	0.5	1.0	
Oct-24-2016	7.4	7.6	1,741	18.6	20.4	< 0.4	1.0	9
Nov-01-2016	5.7	7.4	1,332	17.7	17.9	0.6	0.8	
Nov-07-2016	6.6	7.6	1,769	17.4	17.0	< 0.4	1.0	
Nov-14-2016	7.5	7.7	1,988	17.2	25.0	< 0.4	1.3	
Nov-22-2016	10.2	7.8	1,719	15.1	26.7	< 0.4	0.9	9
Dec-01-2016	11.8	7.8	1,832	11.2	20.8	0.6	1.4	
Dec-05-2016	15.0	7.9	1,810	9.6	16.8	< 0.4	1.1	
Dec-12-2016		7.8	2,149	13.7	22.6	0.6	1.5	
Dec-22-2016	10.4	7.6	2,277	8.9	22.7	1.6	2.0	
Dec-29-2016	11.0	7.7	2,637	9.3	15.4	1.9	2.4	10

NOTES:

PARAMETER	Nutrients				
	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-28-2016					
Feb-17-2016	0.22	0.14			
Mar-17-2016					
Apr-21-2016	0.12 T, V	0.13			
May-26-2016	0.06	0.13			
Jun-28-2016	<0.010	0.11			
Jul-20-2016	0.07	0.11			
Aug-17-2016					
Sep-27-2016	<0.010 T	0.30			
Oct-24-2016	0.05	0.10			
Nov-22-2016	0.27	0.16			
Dec-29-2016	0.81 T	0.15			

NOTES: TKN, Total P, and Ortho P removed from monitoring program in 2015 GBP WDR

**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-01-2016	122	6.8	1,276
Jan-02-2016	116	7.3	1,329
Jan-03-2016	107	7.6	1,442
Jan-04-2016	94	8.0	1,593
Jan-05-2016	89	8.9	1,702
Jan-06-2016	102	8.9	1,558
Jan-07-2016	141	9.1	1,298
Jan-08-2016	369	9.0	785
Jan-09-2016	936	9.2	238
Jan-10-2016	917	9.2	388
Jan-11-2016	690	9.5	609
Jan-12-2016	484	9.5	740
Jan-13-2016	322	10.1	856
Jan-14-2016	248	10.1	908
Jan-15-2016	215	10.8	989
Jan-16-2016	198	11.6	1,098
Jan-17-2016	194	11.6	1,178
Jan-18-2016	193	12.4	1,269
Jan-19-2016	204	12.6	1,280
Jan-20-2016	767	12.9	402
Jan-21-2016	1,457	12.6	220
Jan-22-2016	1,554	12.2	272
Jan-23-2016	1,284	12.2	483
Jan-24-2016	1,206	12.2	422
Jan-25-2016	1,424	12.1	359
Jan-26-2016	1,277	11.9	522
Jan-27-2016	967	11.8	688
Jan-28-2016	706	11.7	848
Jan-29-2016	542	12.1	898
Jan-30-2016	456	12.7	944
Jan-31-2016	393	12.4	1,024
Feb-01-2016	343	10.4	1,083
Feb-02-2016	474	9.9	837
Feb-03-2016	537	9.2	793
Feb-04-2016	447	9.6	933
Feb-05-2016	348	10.0	1,094
Feb-06-2016	264	10.8	1,267
Feb-07-2016	204	11.6	1,469
Feb-08-2016	168	12.3	1,617
Feb-09-2016	141	13.0	1,768
Feb-10-2016	124	13.6	1,909
Feb-11-2016	113	14.0	1,963

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Feb-12-2016	105	14.6	1,958
Feb-13-2016	100	14.9	2,006
Feb-14-2016	103	14.8	1,901
Feb-15-2016	104	15.3	1,851
Feb-16-2016	105	15.7	1,866
Feb-17-2016	104	15.7	1,841
Feb-18-2016	109	14.7	1,747
Feb-19-2016	116	14.2	1,683
Feb-20-2016	119	14.4	1,739
Feb-21-2016	120	14.4	1,725
Feb-22-2016	116	14.6	1,723
Feb-23-2016	111	14.7	1,771
Feb-24-2016	111	15.1	1,724
Feb-25-2016	114	15.6	1,746
Feb-26-2016	116	16.1	1,786
Feb-27-2016	117	16.7	1,784
Feb-28-2016	118	16.3	1,810
Feb-29-2016	119	16.5	1,785
Mar-01-2016	122	17.2	1,801
Mar-02-2016	120	17.4	1,777
Mar-03-2016	119	17.6	1,762
Mar-04-2016	125	18.0	1,769
Mar-05-2016	142	17.6	1,724
Mar-06-2016	172	16.8	1,684
Mar-07-2016	337	16.1	1,314
Mar-08-2016	786	15.1	508
Mar-09-2016	1,269	14.7	339
Mar-10-2016	1,386	15.5	503
Mar-11-2016	1,171	15.8	697
Mar-12-2016	956	15.6	760
Mar-13-2016	1,020	15.0	577
Mar-14-2016	1,353	14.5	372
Mar-15-2016	1,559	14.9	313
Mar-16-2016	1,920	15.3	216
Mar-17-2016	1,819	16.3	397
Mar-18-2016	1,476	17.8	623
Mar-19-2016	1,106	18.8	781
Mar-20-2016	819	19.3	899
Mar-21-2016	615	19.3	1,010
Mar-22-2016	507	18.3	1,099
Mar-23-2016	449	17.5	1,183
Mar-24-2016	408	17.6	1,274
Mar-25-2016	368	18.1	1,394
Mar-26-2016	330	18.2	1,465

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Mar-27-2016	305	18.7	1,548
Mar-28-2016	281	18.4	1,655
Mar-29-2016	260	17.5	1,765
Mar-30-2016	247	17.4	1,794
Mar-31-2016	235	17.9	1,750
Apr-01-2016	226	18.6	1,596
Apr-02-2016	209	19.3	1,649
Apr-03-2016	187	20.1	1,742
Apr-04-2016	168	20.1	1,821
Apr-05-2016	160	20.0	1,861
Apr-06-2016	166	20.5	1,813
Apr-07-2016	176	21.1	1,842
Apr-08-2016	174	20.6	1,952
Apr-09-2016	197	19.9	1,901
Apr-10-2016	214	19.2	1,814
Apr-11-2016	292	19.7	1,505
Apr-12-2016	314	19.9	1,381
Apr-13-2016	281	20.1	1,339
Apr-14-2016	263	20.1	1,435
Apr-15-2016	266	18.6	1,541
Apr-16-2016	248	18.5	1,745
Apr-17-2016	234	20.0	1,786
Apr-18-2016	218	21.6	1,891
Apr-19-2016	202	22.5	1,903
Apr-20-2016	198	22.6	1,884
Apr-21-2016	185	22.6	1,857
Apr-22-2016	168	21.1	2,020
Apr-23-2016	154	20.3	2,023
Apr-24-2016	143	20.5	2,013
Apr-25-2016	137	19.0	2,108
Apr-26-2016	132	18.4	2,071
Apr-27-2016	129	18.6	2,103
Apr-28-2016	123	18.9	2,214
Apr-29-2016	112	20.1	2,346
Apr-30-2016	106	19.8	2,337
May-01-2016	109	20.7	2,040
May-02-2016	122	21.9	1,941
May-03-2016	135	22.3	1,843
May-04-2016	136	22.0	1,892
May-05-2016	132	20.9	1,966
May-06-2016	115	19.4	2,269
May-07-2016	112	18.9	2,416
May-08-2016	115	20.0	2,313
May-09-2016	127	21.7	1,881

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
May-10-2016	139	22.6	1,814
May-11-2016	145	23.6	1,762
May-12-2016	138	24.3	1,843
May-13-2016	133	24.6	1,968
May-14-2016	128	23.8	2,104
May-15-2016	126	23.4	2,200
May-16-2016	122	23.3	2,206
May-17-2016	119	23.4	2,277
May-18-2016	113	24.3	2,391
May-19-2016	105	24.5	2,500
May-20-2016	102	21.7	2,518
May-21-2016	102	19.9	2,369
May-22-2016	105	20.1	2,226
May-23-2016	108	20.8	1,991
May-24-2016	107	21.1	1,854
May-25-2016	115	21.7	1,702
May-26-2016	134	22.5	1,501
May-27-2016	146	23.4	1,498
May-28-2016	140	23.6	1,717
May-29-2016	123	24.3	1,857
May-30-2016	114	24.9	1,915
May-31-2016	108	25.8	1,921
Jun-01-2016	105	26.8	1,903
Jun-02-2016	102	26.8	1,857
Jun-03-2016	102	26.7	1,876
Jun-04-2016	96	26.6	1,814
Jun-05-2016	92	26.7	1,890
Jun-06-2016	96	26.9	1,991
Jun-07-2016	90	27.1	2,014
Jun-08-2016	96	26.1	1,926
Jun-09-2016	94	25.4	1,872
Jun-10-2016	96	25.1	1,740
Jun-11-2016	98	23.4	1,706
Jun-12-2016	95	23.8	1,766
Jun-13-2016	95	24.9	1,749
Jun-14-2016	95	24.1	1,670
Jun-15-2016	97	22.8	1,445
Jun-16-2016	96	22.5	1,440
Jun-17-2016	90	23.7	1,670
Jun-18-2016	92	23.8	1,641
Jun-19-2016	95	24.2	1,591
Jun-20-2016	89	24.9	1,519
Jun-21-2016	86	25.1	1,521
Jun-22-2016	82	25.9	1,560

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jun-23-2016	84	25.5	
Jun-24-2016	86	25.3	1,575
Jun-25-2016	82	25.3	1,705
Jun-26-2016	79	26.2	1,889
Jun-27-2016	75	26.9	1,940
Jun-28-2016	75	27.7	1,953
Jun-29-2016	81	27.9	1,698
Jun-30-2016	84	27.5	1,699
Jul-01-2016	77	28.1	1,800
Jul-02-2016	71	28.0	1,930
Jul-03-2016	65	27.6	1,999
Jul-04-2016	64	27.0	2,005
Jul-05-2016	66	26.8	1,793
Jul-06-2016	70	26.3	1,630
Jul-07-2016	72	26.1	1,572
Jul-08-2016	70	25.9	1,564
Jul-09-2016	70	25.9	1,580
Jul-10-2016	73	24.7	1,516
Jul-11-2016	83	24.7	1,282
Jul-12-2016	91	25.3	1,157
Jul-13-2016	103	25.7	1,075
Jul-14-2016	114	26.8	1,009
Jul-15-2016	104	27.4	1,164
Jul-16-2016	94	27.3	1,259
Jul-17-2016	82	26.9	1,269
Jul-18-2016	78	26.0	1,282
Jul-19-2016	78	25.3	1,214
Jul-20-2016	74	25.3	1,289
Jul-21-2016	72	25.5	1,334
Jul-22-2016	69	25.2	1,317
Jul-23-2016	63	25.7	1,546
Jul-24-2016	58	27.0	1,750
Jul-25-2016	57	27.6	1,724
Jul-26-2016	56	27.8	1,642
Jul-27-2016	57	28.2	1,600
Jul-28-2016	60	28.4	1,479
Jul-29-2016	61	28.6	1,433
Jul-30-2016	56	28.6	1,492
Jul-31-2016	53	27.9	1,597
Aug-01-2016	54	27.0	1,612
Aug-02-2016	60	26.8	1,426
Aug-03-2016	62	27.0	1,187
Aug-04-2016	65	26.5	1,228
Aug-05-2016	68	25.8	1,158

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Aug-06-2016	72	26.0	1,128
Aug-07-2016	76	25.5	993
Aug-08-2016	76	25.4	963
Aug-09-2016	72	25.5	1,071
Aug-10-2016	71	25.9	1,076
Aug-11-2016	74	26.4	951
Aug-12-2016	73	26.5	879
Aug-13-2016	70	26.7	956
Aug-14-2016	56	27.1	1,261
Aug-15-2016	53	26.7	1,343
Aug-16-2016	54	26.5	1,123
Aug-17-2016	54	27.0	1,158
Aug-18-2016	53	26.7	1,240
Aug-19-2016	56	26.1	1,188
Aug-20-2016	62	26.0	1,074
Aug-21-2016	67	25.7	991
Aug-22-2016	72	25.2	995
Aug-23-2016	74	25.1	965
Aug-24-2016	73	25.0	972
Aug-25-2016	72	24.7	1,056
Aug-26-2016	68	24.4	1,097
Aug-27-2016	64	24.1	1,221
Aug-28-2016	60	24.1	1,271
Aug-29-2016	59	24.0	1,312
Aug-30-2016	62	24.1	1,246
Aug-31-2016	69	24.5	1,159
Sep-01-2016	65	24.0	1,199
Sep-02-2016	65	24.0	1,180
Sep-03-2016	63	24.0	1,216
Sep-04-2016	58	22.5	1,413
Sep-05-2016	56	22.4	1,454
Sep-06-2016	57	22.5	1,345
Sep-07-2016	59	23.2	1,257
Sep-08-2016	57	23.9	1,300
Sep-09-2016	45	24.0	1,754
Sep-10-2016	41	24.6	1,990
Sep-11-2016	38	25.1	2,096
Sep-12-2016	44	23.8	1,783
Sep-13-2016	50	21.4	1,310
Sep-14-2016	55	21.2	1,198
Sep-15-2016	58	21.5	1,294
Sep-16-2016	57	22.0	1,389
Sep-17-2016	55	22.6	1,403
Sep-18-2016	56	23.4	1,480

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Sep-19-2016	54	24.1	1,547
Sep-20-2016	52	23.9	1,405
Sep-21-2016	56	23.0	1,218
Sep-22-2016	59	20.3	1,285
Sep-23-2016	50	19.6	1,638
Sep-24-2016	45	20.5	1,997
Sep-25-2016	45	21.9	1,891
Sep-26-2016	53	22.6	1,462
Sep-27-2016	59	23.0	1,215
Sep-28-2016	59	23.1	1,235
Sep-29-2016	49	23.0	1,543
Sep-30-2016	41	21.5	1,943
Oct-01-2016	38	19.6	2,059
Oct-02-2016	41	18.6	2,214
Oct-03-2016	38	17.4	2,361
Oct-04-2016	41	17.6	2,062
Oct-05-2016	42	17.7	1,954
Oct-06-2016	38	17.5	2,058
Oct-07-2016	35	17.6	2,272
Oct-08-2016	36	18.3	2,307
Oct-09-2016	36	19.0	2,235
Oct-10-2016	36	19.4	2,301
Oct-11-2016	35	19.3	2,404
Oct-12-2016	37	19.1	2,311
Oct-13-2016	42	18.7	1,955
Oct-14-2016	51	18.0	1,678
Oct-15-2016	55	19.2	1,548
Oct-16-2016	48	19.1	1,703
Oct-17-2016	48	18.7	1,796
Oct-18-2016	51	17.5	1,719
Oct-19-2016	54	16.6	1,602
Oct-20-2016	55	16.7	1,661
Oct-21-2016	57	17.2	1,685
Oct-22-2016	58	17.7	1,670
Oct-23-2016	56	18.1	1,761
Oct-24-2016	55	18.2	1,850
Oct-25-2016	58	17.9	1,738
Oct-26-2016	60	18.0	1,700
Oct-27-2016	57	17.3	1,847
Oct-28-2016	67	17.7	1,836
Oct-29-2016	72	18.7	1,790
Oct-30-2016	83	18.5	1,621
Oct-31-2016	101	17.3	1,370
Nov-01-2016	120	17.5	1,368

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Nov-02-2016	132	16.5	1,378
Nov-03-2016	128	16.3	1,586
Nov-04-2016	108	16.1	1,813
Nov-05-2016	92	16.2	2,005
Nov-06-2016	83	16.5	2,042
Nov-07-2016	78	17.1	1,939
Nov-08-2016	72	17.2	1,936
Nov-09-2016	72	17.2	1,955
Nov-10-2016	76	17.3	1,872
Nov-11-2016	80	17.5	1,852
Nov-12-2016	89	17.9	1,935
Nov-13-2016	88	17.3	1,987
Nov-14-2016	87	16.8	2,004
Nov-15-2016	87	16.5	1,969
Nov-16-2016	90	15.7	1,892
Nov-17-2016	95	13.6	1,855
Nov-18-2016	98	12.5	1,836
Nov-19-2016	101	12.7	1,780
Nov-20-2016	106	13.4	1,636
Nov-21-2016	116	13.7	1,518
Nov-22-2016	125	13.0	1,448
Nov-23-2016	129	13.2	1,374
Nov-24-2016	138	12.1	1,347
Nov-25-2016	148	11.4	1,338
Nov-26-2016	156	10.9	1,344
Nov-27-2016	161	11.4	1,275
Nov-28-2016	183	11.4	1,180
Nov-29-2016	213	11.0	1,150
Nov-30-2016	206	10.6	1,246
Dec-01-2016	180	10.7	1,336
Dec-02-2016	154	9.7	1,475
Dec-03-2016	138	9.3	1,548
Dec-04-2016	140	9.2	1,571
Dec-05-2016	142	9.1	1,549
Dec-06-2016	146	9.6	1,503
Dec-07-2016	145	9.1	1,581
Dec-08-2016	142	9.8	1,727
Dec-09-2016	131	11.3	1,878
Dec-10-2016	126	12.5	1,844
Dec-11-2016	127	12.8	1,877
Dec-12-2016	121	12.3	1,937
Dec-13-2016	115	12.3	1,985
Dec-14-2016	108	12.6	2,054
Dec-15-2016	105	12.7	2,066

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-16-2016	102	12.4	2,070
Dec-17-2016	104	9.9	2,072
Dec-18-2016	175	8.6	1,629
Dec-19-2016	293	8.1	1,085
Dec-20-2016	248	7.5	1,125
Dec-21-2016	185	7.7	1,339
Dec-22-2016	136	7.9	1,593
Dec-23-2016	110	8.3	1,832
Dec-24-2016	100	8.1	2,016
Dec-25-2016	103	7.6	2,045
Dec-26-2016	117	7.2	1,876
Dec-27-2016	142	7.0	1,642
Dec-28-2016	148	7.1	1,649
Dec-29-2016	126	7.2	1,705
Dec-30-2016	105	7.5	1,863
Dec-31-2016	94	8.3	2,003

NOTES:

USGS data webpage

http://waterdata.usgs.gov/nwis/dv/?site_no=11261500&agency_cd=USGS&referred_module=sw

Table 10b. Monthly averages and totals

PARAMETER	Total Flow	Average Temperature	Average Specific Conductance
DATA SOURCE	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm
Jan-16	35,250	10.6	891
Feb-16	10,250	13.7	1,627
Mar-16	43,200	17.0	1,121
Apr-16	11,470	20.1	1,850
May-16	7,490	22.4	2,022
Jun-16	5,400	25.5	1,745
Jul-16	4,480	26.7	1,494
Aug-16	4,000	25.7	1,139
Sep-16	3,180	22.8	1,481
Oct-16	3,130	18.1	1,905
Nov-16	6,860	14.7	1,662
Dec-16	8,550	9.5	1,725

NOTES:

Table 10c. Other water quality monitoring in the San Joaquin River at Fremont Ford (Station G)

PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity			
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-04-2016								
Jan-11-2016	10.0	7.6	611	10.2	57.8	<0.4	0.3	
Jan-21-2016	9.8	7.6	177	13.1	126.0	<0.4	0.0	
Jan-28-2016	10.3	7.5	862	12.2	32.1	0.6	0.6	4
Feb-04-2016	14.0	7.8	941	9.4	26.1	0.4	0.5	
Feb-11-2016	8.3	7.6	2,096	14.3	41.6	<0.4	0.9	
Feb-17-2016	9.8	4.6	2,057	15.9	18.6	<0.4	0.9	10
Feb-26-2016		7.7	1,965	16.7	24.1	<0.4	0.9	
Mar-03-2016	8.8	7.8	1,897	17.9	25.3	<0.4	0.9	
Mar-10-2016	7.4	7.5	486	16.2	33.7	<0.4	0.3	
Mar-17-2016	6.2	7.3	372	15.8	29.7	<0.4	0.2	2
Mar-25-2016		7.8	1,238	15.0	19.1	<0.4	1.0	
Mar-31-2016	10.5	7.9	1,905	17.4	24.8	<0.4	1.2	
Apr-07-2016	9.3	7.9	2,044	21.8	21.1	<0.4	1.0	
Apr-14-2016	9.3	7.8	1,487	19.3	20.7	<0.4	0.8	
Apr-21-2016	10.6	7.9	2,013	22.7	18.7	<0.4	1.0	10
Apr-28-2016	8.5	7.7	2,346	17.8	23.5	<0.4	1.0	
May-05-2016	8.5	7.8	2,012	20.2	25.1	<0.4	0.8	
May-11-2016	8.7	8.3	1,797	24.6	28.6	0.6	1.0	
May-19-2016	9.3	7.8	2,487	23.8	40.0	<0.4	1.0	
May-26-2016	10.2	7.9	1,487	20.8	31.6	<0.4	0.7	8
Jun-02-2016	10.1	7.9	1,899	25.5	25.3	<0.4	0.7	
Jun-10-2016	9.8	7.9	1,783	23.8	34.3	<0.4	0.7	
Jun-14-2016	8.1	8.0	1,794	22.5	28.6	<0.4	0.7	
Jun-21-2016	7.3	7.9	1,628	22.7	32.5	<0.4	0.6	
Jun-28-2016	8.1	7.8	1,941	27.3	35.8	<0.4	0.7	9
Jul-05-2016	8.1	8.0	1,831	26.0	34.7	<0.4	0.7	
Jul-12-2016	7.8	7.8	1,125	24.8	35.6	<0.4	0.4	
Jul-20-2016	7.7	7.8	1,306	24.6	53.5	<0.4	0.4	
Jul-29-2016		8.0	1,467	28.3	37.3	<0.4	0.6	
Aug-02-2016		8.1	1,422	27.4	34.9	0.6	0.6	
Aug-10-2016	7.6	7.7	1,150	22.9	75.2	<0.4	0.4	
Aug-17-2016	6.9	7.6	1,202	23.9	64.0	<0.4	0.4	
Aug-31-2016	10.8	8.1	1,156	24.8	59.7	<0.4	0.4	
Sep-07-2016								
Sep-12-2016	9.2	7.7	1,854	20.8	72.6	<0.4	0.7	
Sep-19-2016	10.3	7.6	1,590	20.9	77.7	<0.4	0.6	
Sep-27-2016	8.2	7.8	1,530	21.5	59.9	<0.4	0.6	
Oct-03-2016	13.9	7.2	2,413	15.6		<0.4	0.9	
Oct-12-2016		7.6	2,395	19.4	30.2	<0.4	0.9	
Oct-17-2016	7.8	7.4	1,825	17.2	51.7	<0.4	0.8	
Oct-24-2016	8.4	7.4	1,897	17.3	66.5	<0.4	0.8	
Nov-01-2016	7.6	7.4	1,382	16.8	86.9	0.6	0.8	
Nov-07-2016	8.8	7.6	1,978	16.2	34.4	<0.4	0.9	
Nov-14-2016	8.8	7.6	2,031	16.4	41.6	<0.4	0.8	
Nov-22-2016	10.9	7.7	1,444	14.7	66.6	<0.4	0.6	
Dec-01-2016	12.8	7.7	1,359	10.9	26.4	< 0.4	0.6	
Dec-05-2016	15.2	7.8	1,548	9.2	28.6	< 0.4	0.7	
Dec-12-2016		7.7	1,947	13.4	124.0	0.4	0.9	
Dec-22-2016	11.5	7.5	1,599	8.6	59.4	0.4	0.7	
Dec-29-2016	11.5	7.7	1,699	9.3	25.4	< 0.4	0.7	

NOTES:

PARAMETER	Nutrients				
	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-28-2016	0.53	0.26			
Feb-17-2016	0.20	0.10			
Mar-17-2016	0.37	0.17			
Apr-21-2016	0.19 T, V	0.10			
May-26-2016	0.21	0.09			
Jun-28-2016					
Jul-20-2016					
Aug-17-2016					
Sep-27-2016					
Oct-24-2016					
Nov-22-2016					
Dec-29-2016					

NOTES: TKN, Total P, and Ortho P removed from monitoring program in 2015 GBP WDR

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

USGS Station Code: 11274550

PARAMETER	Flow	Temperature	Specific Conductance	Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Jan-01-2016	506	6.7	1,090	1.1
Jan-02-2016	483	6.7	1,120	1.0
Jan-03-2016	463	7.2	1,140	0.9
Jan-04-2016	455	7.4	1,160	0.8
Jan-05-2016	459	8.2	1,190	0.7
Jan-06-2016	473	8.6	1,210	0.7
Jan-07-2016	514	8.8	1,220	0.6
Jan-08-2016	891	8.8	1,240	0.6
Jan-09-2016	1,260	8.8	1,210	< 0.4
Jan-10-2016	1,320	9.4	1,150	0.5
Jan-11-2016	1,240	9.4	1,090	0.7
Jan-12-2016	1,070	9.4	1,070	0.7
Jan-13-2016	895	9.6	1,060	0.6
Jan-14-2016	754	10.0	1,070	0.6
Jan-15-2016	659	10.1	1,080	0.7
Jan-16-2016	605	11.0	1,100	0.7
Jan-17-2016	573	11.3	1,120	0.6
Jan-18-2016	616	11.5	1,140	0.6
Jan-19-2016	646	12.4	1,160	0.5
Jan-20-2016	1,230	12.3	1,180	< 0.4
Jan-21-2016	1,920	12.6	939	< 0.4
Jan-22-2016	2,120	12.4	584	< 0.4
Jan-23-2016	2,080	12.3	634	0.5
Jan-24-2016	1,960	12.2	797	0.7
Jan-25-2016	2,180	12.0	751	0.6
Jan-26-2016	2,240	11.9	691	0.6
Jan-27-2016	2,040	11.8	775	0.8
Jan-28-2016	1,720	11.6	892	0.9
Jan-29-2016	1,440	11.8	1,000	0.9
Jan-30-2016	1,250	12.4	1,090	1.0
Jan-31-2016	1,130	12.5	1,150	1.0
Feb-01-2016	1,020	10.5	1,190	1.1
Feb-02-2016	998	9.6	1,210	1.0
Feb-03-2016	1,110	9.6	1,140	0.9
Feb-04-2016	1,080	9.7	1,140	1.5
Feb-05-2016	974	10.0	1,220	1.8
Feb-06-2016	867	10.6	1,270	1.7
Feb-07-2016	775	11.3	1,340	1.8
Feb-08-2016	704	11.9	1,390	1.7
Feb-09-2016	644	12.6	1,420	1.5
Feb-10-2016	591	13.2	1,470	1.5
Feb-11-2016	549	13.6	1,500	1.3
Feb-12-2016	522	13.9	1,550	1.3
Feb-13-2016	506	14.6	1,540	1.4
Feb-14-2016	494	14.8	1,540	1.8
Feb-15-2016	487	15.0	1,510	1.6
Feb-16-2016	481	15.5	1,440	1.0
Feb-17-2016	480	15.8	1,420	0.9
Feb-18-2016	479	15.3	1,400	0.9

PARAMETER	Flow	Temperature	Specific Conductance	Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Feb-19-2016	474	14.8	1,390	0.7
Feb-20-2016	483	14.5	1,360	0.8
Feb-21-2016	499	14.3	1,350	0.7
Feb-22-2016	508	14.5	1,360	0.7
Feb-23-2016	510	14.5	1,370	0.7
Feb-24-2016	496	14.7	1,390	0.6
Feb-25-2016	483	15.3	1,440	0.6
Feb-26-2016	483	15.8	1,440	0.6
Feb-27-2016	479	16.4	1,420	0.6
Feb-28-2016	482	16.5	1,420	0.6
Feb-29-2016	496	16.3	1,410	0.6
Mar-01-2016	502	17.0	1,380	0.6
Mar-02-2016	509	17.4	1,360	0.6
Mar-03-2016	508	17.6	1,380	0.5
Mar-04-2016	532	18.1	1,360	0.6
Mar-05-2016	592	17.8	1,310	0.5
Mar-06-2016	689	17.1	1,280	0.5
Mar-07-2016	986	16.0	1,120	< 0.4
Mar-08-2016	1,490	14.8	922	< 0.4
Mar-09-2016	1,840	15.2	841	0.5
Mar-10-2016	2,060	15.6	753	0.7
Mar-11-2016	2,040	15.6	887	1.0
Mar-12-2016	1,840	15.5	1,020	1.0
Mar-13-2016	1,890	15.4	980	0.9
Mar-14-2016	3,000	14.4	636	0.6
Mar-15-2016	2,930	14.9	594	
Mar-16-2016	3,020	15.0	540	
Mar-17-2016	2,920	16.0	598	
Mar-18-2016	2,710	17.2	724	
Mar-19-2016	2,300	18.2	819	
Mar-20-2016	1,900	18.9	902	
Mar-21-2016	1,590	19.3	957	
Mar-22-2016	1,370	18.3	1,010	
Mar-23-2016	1,230	17.4	1,050	0.5
Mar-24-2016	1,150	17.2	1,100	0.5
Mar-25-2016	1,100	17.8	1,150	0.5
Mar-26-2016	1,040	18.2	1,190	0.5
Mar-27-2016	985	18.6	1,240	0.5
Mar-28-2016	947	18.6	1,290	0.4
Mar-29-2016	885	17.5	1,340	
Mar-30-2016	825	17.2	1,390	
Mar-31-2016	770	17.6	1,500	
Apr-01-2016	718	18.4	1,550	
Apr-02-2016	681	19.3	1,600	
Apr-03-2016	660	20.2	1,600	
Apr-04-2016	607	20.2	1,640	
Apr-05-2016	571	19.9	1,740	
Apr-06-2016	548	20.0	1,830	0.6
Apr-07-2016	549	21.0	1,880	0.5
Apr-08-2016	539	20.9	1,850	0.6
Apr-09-2016	596	19.8	1,760	0.5

PARAMETER	Flow	Temperature	Specific Conductance	Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Apr-10-2016	626	18.7	1,780	< 0.4
Apr-11-2016	682	19.0	1,700	0.4
Apr-12-2016	793	20.2	1,580	0.6
Apr-13-2016	805	20.4	1,860	2.3
Apr-14-2016	730	20.3	1,850	1.9
Apr-15-2016	681	18.9	1,720	0.9
Apr-16-2016	640	18.2	1,700	0.6
Apr-17-2016	602	19.7	1,780	0.4
Apr-18-2016	568	21.7	1,850	0.5
Apr-19-2016	546	23.2	1,810	< 0.4
Apr-20-2016	534	23.4	1,800	< 0.4
Apr-21-2016	520	23.2	1,790	< 0.4
Apr-22-2016	487	21.6	1,840	< 0.4
Apr-23-2016	460	20.5	1,940	0.5
Apr-24-2016	453	20.5	1,930	< 0.4
Apr-25-2016	450	19.3	1,860	< 0.4
Apr-26-2016	454	18.7	1,820	< 0.4
Apr-27-2016	450	19.0	1,770	< 0.4
Apr-28-2016	440	18.8	1,800	< 0.4
Apr-29-2016	418	20.4	1,780	0.5
Apr-30-2016	403	20.7	1,810	< 0.4
May-01-2016	368	20.6	1,910	0.4
May-02-2016	332	22.0	1,920	< 0.4
May-03-2016	352	22.9	1,770	< 0.4
May-04-2016	373	22.6	1,680	< 0.4
May-05-2016	370	21.4	1,640	< 0.4
May-06-2016	357	19.4	1,640	< 0.4
May-07-2016	355	18.6	1,660	< 0.4
May-08-2016	389	19.5	1,830	< 0.4
May-09-2016	427	21.8	2,090	1.4
May-10-2016	406	23.0	2,050	2.0
May-11-2016	388	23.8	1,990	2.1
May-12-2016	380	24.3	1,860	2.0
May-13-2016	349	24.2	1,890	1.8
May-14-2016	329	23.3	1,920	1.6
May-15-2016	329	23.0	1,840	1.2
May-16-2016	323	23.1	1,840	0.9
May-17-2016	295	23.3	1,930	0.8
May-18-2016	287	24.0	1,940	0.8
May-19-2016	265	24.8	1,980	0.6
May-20-2016	266	22.5	1,940	0.6
May-21-2016	247	20.7	1,940	0.6
May-22-2016	228	20.1	2,000	0.6
May-23-2016	220	20.9	2,060	0.5
May-24-2016	230	21.7	1,790	0.4
May-25-2016	217	22.1	1,740	< 0.4
May-26-2016	220	23.1	1,610	< 0.4
May-27-2016	264	23.6	1,490	0.5
May-28-2016	262	24.0	1,430	0.4
May-29-2016	274	24.3	1,470	0.4
May-30-2016	256	25.1	1,530	0.4

PARAMETER	Flow	Temperature	Specific Conductance	Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
May-31-2016	238	26.0	1,560	0.4
Jun-01-2016	226	26.9	1,531	0.4
Jun-02-2016	199	26.9	1,554	0.4
Jun-03-2016	188	26.6	1,529	< 0.4
Jun-04-2016	194	26.4	1,548	0.4
Jun-05-2016	202	26.3	1,562	0.6
Jun-06-2016	190	26.5	1,616	< 0.4
Jun-07-2016	182	26.8	1,707	< 0.4
Jun-08-2016	177	25.7	1,652	< 0.4
Jun-09-2016	189	24.6	1,585	< 0.4
Jun-10-2016	188	24.6	1,609	< 0.4
Jun-11-2016	191	23.2	1,562	< 0.4
Jun-12-2016	185	23.9	1,512	< 0.4
Jun-13-2016	194	24.9	1,545	< 0.4
Jun-14-2016	190	24.1	1,548	0.4
Jun-15-2016	172	22.7	1,512	< 0.4
Jun-16-2016	203	22.3	1,420	< 0.4
Jun-17-2016	187	23.7	1,366	< 0.4
Jun-18-2016	167	23.5	1,478	0.4
Jun-19-2016	163	23.6	1,534	< 0.4
Jun-20-2016	164	24.4	1,470	< 0.4
Jun-21-2016	161	24.5	1,344	< 0.4
Jun-22-2016	157	25.2	1,326	< 0.4
Jun-23-2016	158	24.9	1,353	< 0.4
Jun-24-2016	149	25.1	1,457	< 0.4
Jun-25-2016	174	25.0	1,376	< 0.4
Jun-26-2016	163	26.0	1,393	< 0.4
Jun-27-2016	167	26.6	1,343	< 0.4
Jun-28-2016	133	27.3	1,584	< 0.4
Jun-29-2016	129	27.2	1,569	< 0.4
Jun-30-2016	126	26.5	1,544	0.4
Jul-01-2016	137	27.1	1,410	0.4
Jul-02-2016	116	27.2	1,531	< 0.4
Jul-03-2016	109	26.4	1,638	< 0.4
Jul-04-2016	100	25.8	1,597	< 0.4
Jul-05-2016	90	26.0	1,723	< 0.4
Jul-06-2016	96	25.7	1,645	0.5
Jul-07-2016	106	25.6	1,496	0.5
Jul-08-2016	103	25.6	1,572	0.5
Jul-09-2016	107	25.4	1,574	0.4
Jul-10-2016	108	24.0	1,558	0.5
Jul-11-2016	113	24.1	1,478	0.5
Jul-12-2016	124	24.6	1,411	0.4
Jul-13-2016	117	25.4	1,378	0.915 U
Jul-14-2016	122	26.6	1,220	0.5
Jul-15-2016	119	27.4	1,181	0.4
Jul-16-2016	120	27.3	1,236	
Jul-17-2016	144	26.5	1,213	
Jul-18-2016	113	25.7	1,252	
Jul-19-2016	98	25.1	1,336	
Jul-20-2016	106	24.1	1,346	< 0.4

PARAMETER	Flow	Temperature	Specific Conductance	Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Jul-21-2016	104	24.6	1,358	< 0.4
Jul-22-2016	109	24.5	1,389	< 0.4
Jul-23-2016	115	24.8	1,294	< 0.4
Jul-24-2016	117	25.8	1,311	< 0.4
Jul-25-2016	124	26.1	1,290	< 0.4
Jul-26-2016	92	25.9	1,519	< 0.4
Jul-27-2016	83	26.8	1,588	< 0.4
Jul-28-2016	71	26.8	1,671	< 0.4
Jul-29-2016	69	26.9	1,633	< 0.4
Jul-30-2016	74	26.7	1,572	< 0.4
Jul-31-2016	93	26.0	1,486	0.4
Aug-01-2016	87	25.3	1,522	0.4
Aug-02-2016	86	25.4	1,539	0.4
Aug-03-2016	96	25.9	1,523	
Aug-04-2016	99	25.2	1,533	
Aug-05-2016	121	23.8	1,455	
Aug-06-2016	95	24.1	1,559	
Aug-07-2016	105	24.2	1,483	
Aug-08-2016	117	24.4	1,346	
Aug-09-2016	96	23.9	1,402	
Aug-10-2016	106	23.8	1,420	
Aug-11-2016	112	25.0	1,395	
Aug-12-2016	116	24.7	1,427	
Aug-13-2016	118	24.8	1,475	
Aug-14-2016	130	25.2	1,369	
Aug-15-2016	102	24.1	1,326	
Aug-16-2016	82	23.9	1,386	
Aug-17-2016	76	25.0	1,408	
Aug-18-2016	95	25.2	1,283	
Aug-19-2016	90	24.8	1,274	0.4
Aug-20-2016	92	24.0	1,358	< 0.4
Aug-21-2016	99	23.8	1,343	< 0.4
Aug-22-2016	106	24.3	1,353	0.5
Aug-23-2016	88	24.0	1,386	0.6
Aug-24-2016	99	24.2	1,394	0.5
Aug-25-2016	123	24.0	1,347	0.4
Aug-26-2016	130	23.6	1,282	0.4
Aug-27-2016	102	22.8	1,288	< 0.4
Aug-28-2016	116	22.5	1,352	0.4
Aug-29-2016	110	22.5	1,385	0.5
Aug-30-2016	109	21.8	1,377	0.4
Aug-31-2016	108	22.6	1,345	0.5
Sep-01-2016	111	21.7	1,326	0.4
Sep-02-2016	106	22.4	1,344	0.5
Sep-03-2016	104	23.1	1,344	0.4
Sep-04-2016	128	22.2	1,349	0.4
Sep-05-2016	124	22.1	1,331	0.4
Sep-06-2016	107	22.4	1,353	0.4
Sep-07-2016	106	22.8	1,403	0.4
Sep-08-2016	116	22.9	1,460	0.4
Sep-09-2016	127	22.6	1,485	< 0.4

PARAMETER	Flow	Temperature	Specific Conductance	Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Sep-10-2016	107	23.2	1,500	0.4
Sep-11-2016	92	23.7	1,532	0.4
Sep-12-2016	79	22.9	1,576	0.4
Sep-13-2016	103	20.4	1,603	0.4
Sep-14-2016	91	18.3	1,627	< 0.4
Sep-15-2016	96	18.4	1,649	< 0.4
Sep-16-2016	102	19.2	1,664	< 0.4
Sep-17-2016	105	19.5	1,662	< 0.4
Sep-18-2016	108	21.0	1,537	< 0.4
Sep-19-2016	110	23.0	1,492	< 0.4
Sep-20-2016	100	22.1	1,516	< 0.4
Sep-21-2016	95	20.5	1,485	< 0.4
Sep-22-2016	119	18.7	1,452	< 0.4
Sep-23-2016	133	18.9	1,436	< 0.4
Sep-24-2016	133	19.8	1,406	0.4
Sep-25-2016	127	21.0	1,402	0.5
Sep-26-2016	125	22.2	1,424	0.5
Sep-27-2016	124	21.4	1,438	0.5
Sep-28-2016	135	20.7	1,493	0.5
Sep-29-2016	141	20.8	1,554	0.6
Sep-30-2016	119	20.4	1,545	0.5
Oct-01-2016	114	19.2	1,539	0.5
Oct-02-2016	115	18.3	1,562	0.5
Oct-03-2016	119	17.4	1,565	0.5
Oct-04-2016	120	17.6	1,568	0.6
Oct-05-2016	123	17.7	1,600	0.5
Oct-06-2016	132	17.6		0.5
Oct-07-2016	128	17.8		0.5
Oct-08-2016	117	18.3		0.5
Oct-09-2016	105	19.0		< 0.4
Oct-10-2016	126	19.4		0.5
Oct-11-2016	126	19.1		0.5
Oct-12-2016	130	19.1		0.5
Oct-13-2016	136	18.9	1,575	0.5
Oct-14-2016	136	18.3	1,584	0.4
Oct-15-2016	139	19.0	1,561	0.4
Oct-16-2016	271	19.3	1,158	< 0.4
Oct-17-2016	376	18.3	873	< 0.4
Oct-18-2016	372	17.7	900	< 0.4
Oct-19-2016	365	16.9	926	< 0.4
Oct-20-2016	408	16.9	939	< 0.4
Oct-21-2016	628	17.3	895	< 0.4
Oct-22-2016	714	17.2	801	< 0.4
Oct-23-2016	674	17.5	729	< 0.4
Oct-24-2016	593	18.0	697	< 0.4
Oct-25-2016	565	17.8	736	< 0.4
Oct-26-2016	688	17.7	721	< 0.4
Oct-27-2016	865	17.4	670	< 0.4
Oct-28-2016	904	17.1	600	< 0.4
Oct-29-2016	875	17.8	622	< 0.4
Oct-30-2016	749	18.2	675	< 0.4

PARAMETER	Flow	Temperature	Specific Conductance	Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Oct-31-2016	683	17.7	734	< 0.4
Nov-01-2016	658	17.6	842	0.4
Nov-02-2016	678	17.2	903	0.5
Nov-03-2016	716	16.9	942	0.5
Nov-04-2016	748	16.8	965	< 0.4
Nov-05-2016	701	16.7	954	< 0.4
Nov-06-2016	635	16.8	985	< 0.4
Nov-07-2016	583	17.1	1,018	< 0.4
Nov-08-2016	532	17.4	1,051	< 0.4
Nov-09-2016	497	17.5	1,084	< 0.4
Nov-10-2016	475	17.5	1,120	
Nov-11-2016	472	17.8	1,168	
Nov-12-2016	479	18.0	1,205	
Nov-13-2016	487	17.8	1,237	
Nov-14-2016	482	17.2	1,264	
Nov-15-2016	479	16.8	1,276	
Nov-16-2016	473	16.2	1,276	
Nov-17-2016	462	14.4	1,255	
Nov-18-2016	454	13.2	1,259	< 0.4
Nov-19-2016	436	12.9	1,265	< 0.4
Nov-20-2016	435	13.7	1,266	< 0.4
Nov-21-2016	435	14.3	1,265	< 0.4
Nov-22-2016	444	13.7	1,225	< 0.4
Nov-23-2016	455	13.5	1,187	< 0.4
Nov-24-2016	457	12.6	1,164	< 0.4
Nov-25-2016	467	11.9	1,160	< 0.4
Nov-26-2016	485	11.5	1,160	< 0.4
Nov-27-2016	504	11.6	1,160	< 0.4
Nov-28-2016	512	11.8	1,161	
Nov-29-2016	527	11.3	1,145	
Nov-30-2016	553	10.9	1,126	
Dec-01-2016	557	10.9	1,131	< 0.4
Dec-02-2016	535	10.0	1,190	< 0.4
Dec-03-2016	507	9.7	1,223	< 0.4
Dec-04-2016	491	9.6	1,257	< 0.4
Dec-05-2016	491	9.6	1,261	< 0.4
Dec-06-2016	491	9.9	1,260	< 0.4
Dec-07-2016	486	9.5	1,270	
Dec-08-2016	486	9.8	1,285	0.4
Dec-09-2016	477	11.1	1,312	0.4
Dec-10-2016	465	12.4	1,356	0.4
Dec-11-2016	479	12.8	1,346	< 0.4
Dec-12-2016	488	12.4	1,310	< 0.4
Dec-13-2016	489	12.2	1,295	< 0.4
Dec-14-2016	484	12.5	1,296	< 0.4
Dec-15-2016	476	12.9	1,300	< 0.4
Dec-16-2016	483	12.6	1,286	< 0.4
Dec-17-2016	482	10.8	1,285	< 0.4
Dec-18-2016	539	9.0	1,254	< 0.4
Dec-19-2016	676	8.1	1,154	
Dec-20-2016	764	7.9	1,200	

PARAMETER	Flow	Temperature	Specific Conductance	Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Dec-21-2016	736	7.9	1,270	
Dec-22-2016	655	8.0	1,328	1.1
Dec-23-2016	596	8.2	1,363	0.8
Dec-24-2016	566	8.0	1,352	0.7
Dec-25-2016	539	7.7	1,375	0.7
Dec-26-2016	544	7.4	1,417	1.2
Dec-27-2016	565	7.2	1,486	1.2
Dec-28-2016	581	7.3	1,464	0.8
Dec-29-2016	557	7.4	1,446	0.9
Dec-30-2016	521	7.7	1,510	1.5
Dec-31-2016	495	8.2	1,521	0.9

NOTES:

USGS data webpage

http://waterdata.usgs.gov/nwis/dv/?site_no=11274550&agency_cd=USGS&referred_module=sw

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-16	69,800	10.4	1,036	0.7
Feb-16	36,010	13.6	1,381	1.1
Mar-16	91,540	16.9	1,052	0.6
Apr-16	34,140	20.2	1,774	0.6
May-16	19,030	22.6	1,805	0.8
Jun-16	10,450	25.2	1,504	0.4
Jul-16	6,540	25.8	1,449	0.4
Aug-16	6,370	24.2	1,398	0.4
Sep-16	6,690	21.3	1,480	0.4
Oct-16	23,000	18.1	1,051	0.4
Nov-16	31,180	15.1	1,136	0.4
Dec-16	33,130	9.6	1,316	0.6

NOTES:

Table 11c. Other water quality monitoring in the San Joaquin River at Crows Landing (Station N)

PARAMETER	Physicals					Total Selenium	Total Boron	Total Molybdenum
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity			
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-04-2016								
Jan-11-2016	10.4	7.5	706	9.8	59.2	0.9	0.8	
Jan-21-2016	10.4	7.0	439	13.0	96.7	<0.4	0.3	
Jan-28-2016	11.2	7.3	942	11.4	30.3	0.9	0.9	4
Feb-04-2016	14.7	7.3	1,148	9.9	22.1	1.65 U	1.1	
Feb-11-2016	8.7	7.2	1,502	13.3	20.0	1.3 U	1.2	
Feb-17-2016	8.8	7.4	1,512	15.7	16.9	1.0	1.0	7
Feb-26-2016		7.5	1,526	15.7	14.4	0.6	1.0	
Mar-03-2016	8.5	7.6	1,465	17.0	19.6	0.6	1.0	
Mar-10-2016	8.1	7.7	747	15.8	41.4	0.9		
Mar-17-2016	6.8	7.2	574	15.8	52.1	0.8	0.6	2
Mar-31-2016	9.6	7.8	1,687	17.3	26.1	0.4	1.2	
Apr-07-2016	8.7	7.4	1,953	21.3	26.4	0.6	1.4	
Apr-14-2016	9.7	7.5	1,842	19.5	33.5	1.8 U	1.9	
Apr-21-2016	11.2	7.6	1,764	22.3	30.3	0.5	1.1	8
Apr-28-2016	8.8	7.5	1,793	18.1	32.3	0.4	1.0	
May-05-2016	8.6	7.9	1,581	20.3	21.7	0.4	0.8	
May-11-2016	14.1	8.8	1,966	24.8	29.8	2.07 U	2.1	
May-19-2016	9.7	7.6	1,970	23.7	41.9	0.5	1.2	
May-26-2016	10.5	7.6	1,615	20.8	47.1	<0.4	0.8	7
Jun-02-2016	12.2	7.8	1,680	25.0	36.7	<0.4	0.8	
Jun-10-2016	11.7	7.5	1,755	23.4	37.8	<0.4	0.8	
Jun-14-2016	10.3	7.5	1,712	21.7	37.9	<0.4	0.8	
Jun-21-2016	9.2	7.7	1,612	23.1	45.4	<0.4	0.8	
Jun-28-2016	9.5	8.1	1,815	26.3	27.6	0.5	0.9	8
Jul-05-2016	9.0	8.1	1,965	25.2	29.6	0.4	0.9	
Jul-12-2016	8.8	8.1	1,409	23.9	41.9	< 0.4	0.6	
Jul-20-2016	8.0	7.9	1,489	23.8	32.8	< 0.4	0.6	6
Jul-29-2016		7.9	1,669	28.6	31.3	0.5	0.7	
Aug-02-2016		8.3	1,469	27.0	30.5	0.4	0.6	
Aug-10-2016	7.3	8.0	1,320	23.1	35.2	< 0.4	0.5	
Aug-17-2016	6.2	7.5	1,544	23.7	36.5	< 0.4	0.6	6
Aug-25-2016	11.2	7.5	1,241	22.8	50.6	0.4	0.4	
Aug-31-2016	9.7	7.5	1,525	22.9	6.6	< 0.4	0.6	
Sep-07-2016								
Sep-12-2016	9.2	7.5	1,674	20.6	34.1	0.6	0.7	
Sep-19-2016	10.4	7.5	1,404	20.8	29.1	<0.4	0.6	
Sep-27-2016	9.6	7.6	1,670	21.5	40.1	0.8	1.0	7
Oct-03-2016	13.7	6.8	1,834	15.9		0.7	1.0	
Oct-12-2016		7.2	1,566	20.6	23.6	0.6	0.8	
Oct-17-2016	6.9	7.4	614	17.0	22.6	< 0.4	0.3	
Oct-24-2016	7.7	7.5	624	17.3	13.4	< 0.4	0.3	3
Nov-01-2016	7.6	7.2	886	17.1	13.6	< 0.4	0.5	
Nov-07-2016	7.9	7.3	1,000	16.5	15.9	< 0.4	0.5	
Nov-14-2016	8.2	7.4	1,211	16.3	14.9	< 0.4	0.7	
Nov-22-2016	10.4	7.5	1,126	15.1	14.5	< 0.4	0.6	6
Dec-01-2016	12.4	7.7	1,137	11.4	12.8	< 0.4	0.7	
Dec-05-2016	15.3	7.7	1,211	10.0	11.9	< 0.4	0.7	
Dec-12-2016		7.5	1,330	13.0	14.8	0.5	0.8	
Dec-22-2016	11.0	7.7	1,487	8.9	18.1	1.2	1.5	
Dec-29-2016	13.1	7.8	1,590	8.0	8.4	1.4	1.3	6

NOTES:

Table 11d. Nutrient monitoring in the San Joaquin River at Crows Landing (Station N)

PARAMETER	Nutrients				
	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-28-2016	0.69	0.28			
Feb-17-2016	0.48	0.13			
Mar-17-2016	0.57	0.20			
Apr-21-2016	1.2 T,V	0.14			
May-26-2016	0.40	0.13			
Jun-28-2016	0.46	0.09			
Jul-20-2016	2.00	0.14			
Aug-17-2016					
Sep-27-2016	5.0 T	0.10			
Oct-24-2016	1.10	0.09			
Nov-22-2016	1.90	0.15			
Dec-29-2016	0.87 T	0.11			

NOTES: TKN, Total P, and Ortho P removed from monitoring program in 2015 GBP WDR

Table 12. New WDR Summary of fathead minnow (*Pimephales promelas*) larvae survival

LOCATION	Station B3	Station D	Station F	Station R	Conductivity Control	Lab Water Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%	%
1/27/2016	N/A	100%	N/A	N/A	N/A	100%
2/16/2016	N/A	100%	N/A	N/A	N/A	100%
3/3/2016	100%	100%	100%	100%	100%	100%
4/14/2016	N/A	100%	N/A	N/A	100%	100%
5/12/2016	N/A	100%	N/A	N/A	N/A	98%
6/8/2016	70%	100%	100%	N/A	N/A	100%
7/13/2016	N/A	100%	N/A	N/A	N/A	100%
8/10/2016	N/A	100%	N/A	N/A	N/A	100%
9/14/2016	0%	100%	98%	100%	95%	100%
10/12/2016	N/A	98%	N/A	N/A	N/A	100%
11/10/2016	80%	100%	100%	98%	100%	100%
12/14/2016	N/A	97%	N/A	N/A	N/A	100%

Table 13. New WDR Summary of Daphnia magna survival in 7-day tests

LOCATION	Station B3	Station D	Station F	Station R	Conductivity Control	Lab Water Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%	%
1/27/2016	N/A	100%	N/A	N/A	N/A	90%
2/16/2016	N/A	100%	N/A	N/A	N/A	100%
3/3/2016	100%	100%	100%	100%	95%	100%
4/14/2016	N/A	100%	N/A	N/A	75%	100%
5/12/2016	N/A	100%	N/A	N/A	N/A	100%
6/8/2016	100%	100%	100%	N/A	N/A	100%
7/13/2016	N/A	100%	N/A	N/A	N/A	100%
8/10/2016	N/A	100%	N/A	N/A	N/A	95%
9/14/2016	0%	100%	100%	100%	0%	90%
10/12/2016	N/A	100%	N/A	N/A	N/A	100%
11/10/2016	100%	100%	95%	95%	65%	95%
12/14/2016	N/A	100%	N/A	N/A	N/A	100%

Table 14. New WDR Summary of Selenastrum capricornutum growth in 4-day tests

LOCATION	Station B3	Station D	Station F	Station R	Conductivity Control	Lab Water Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	cells/mL x 10 ⁵	cells/mL x 10 ⁵	cells/mL x 10 ⁵	cells/mL x 10 ⁵	cells/mL x 10 ⁵	cells/mL x 10 ⁵
1/27/2016	N/A	6.40	N/A	N/A	N/A	3.14
2/16/2016	N/A	9.70	N/A	N/A	N/A	3.49
3/3/2016	5.23	8.75	6.96	7.33	3.27	3.57
4/14/2016	N/A	7.49	N/A	N/A	3.40	4.13
5/12/2016	N/A	4.66	N/A	N/A	N/A	3.67
6/8/2016	3.28	6.04	5.51	N/A	N/A	3.04
7/13/2016	N/A	4.42	N/A	N/A	N/A	2.65
8/10/2016	N/A	5.42	N/A	N/A	N/A	3.04
9/14/2016	0.34	5.59	4.89	5.40	0.36	3.25
10/12/2016	N/A	8.22	N/A	N/A	N/A	2.86
11/10/2016	2.86	5.33	4.70	5.45	2.00	2.18
12/14/2016	N/A	5.08	N/A	N/A	N/A	2.38

Table 15. 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
Water Quality Monitoring	
NA	Not applicable
<	Less than MDL
D	Sample was dechlorinated
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, not required, equipment error, data will not be available in the future
P	Pending, data not available at this time but will be available in the future
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 ⁶ cell/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