

GRASSLAND BYPASS PROJECT MONTHLY DATA REPORT



2018

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

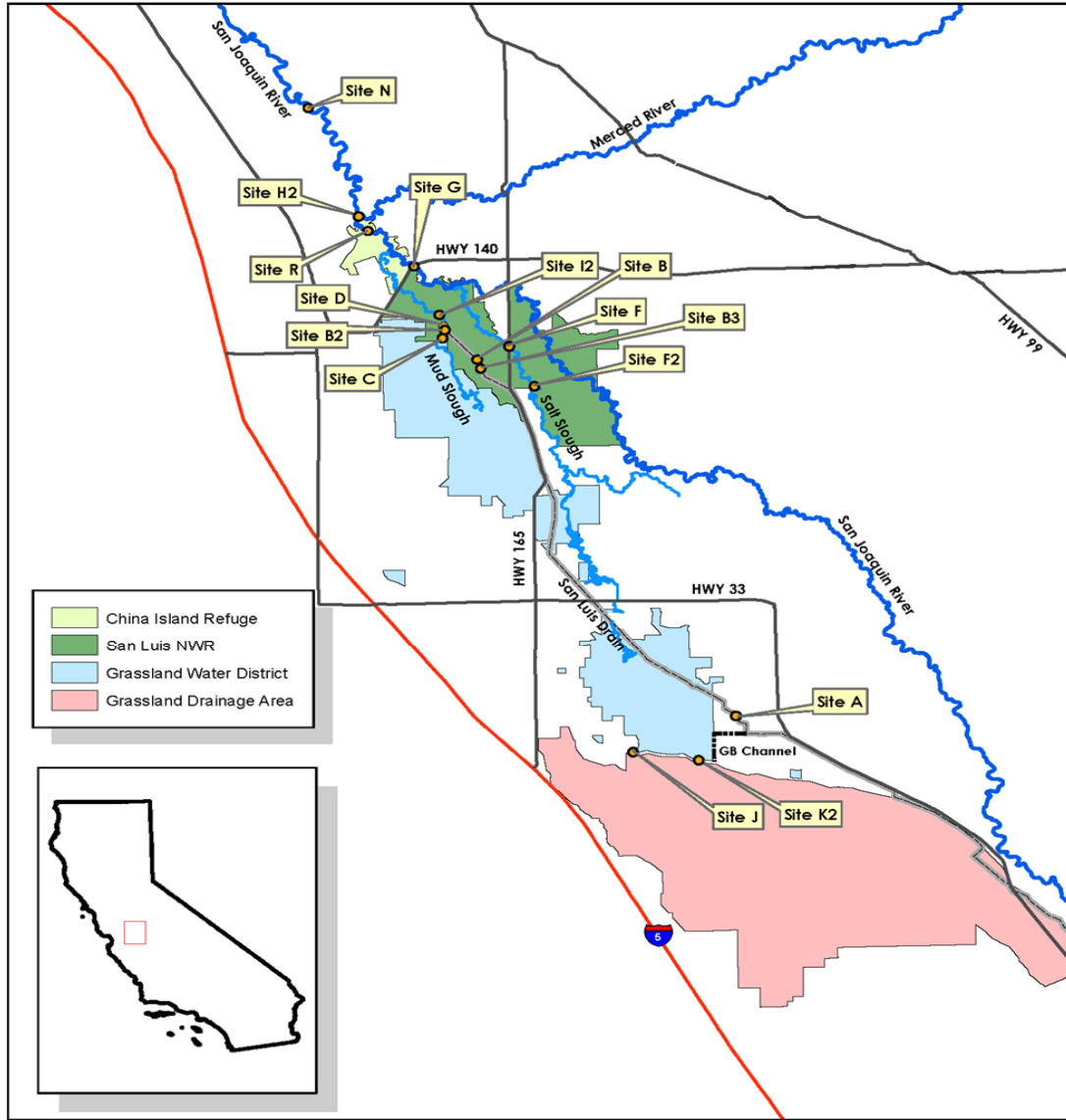
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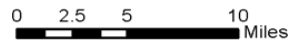
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Figure 1: Map of the Grassland Bypass Project area and sampling locations



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	Total Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Daily Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	microm	microm	tons
Jan-01-2018	0.0	0.0						0.0
Jan-02-2018	0.0	0.0						0.0
Jan-03-2018	0.0	0.0						0.0
Jan-04-2018	0.0	0.0						0.0
Jan-05-2018	0.0	0.0						0.0
Jan-06-2018	0.0	0.0						0.0
Jan-07-2018	0.0	0.0						0.0
Jan-08-2018	22.2	44.1					8,540.0	378.5
Jan-09-2018	88.8	176.2	0.0182	18.5	8,540.0	8,905.0	8,540.0	1,512.9
Jan-10-2018	91.3	181.1					7,646.5	1,392.3
Jan-11-2018	62.2	123.4					7,646.5	949.2
Jan-12-2018	62.0	122.9					7,646.5	945.2
Jan-13-2018	61.1	121.1					6,753.0	822.5
Jan-14-2018	57.2	113.4					6,753.0	769.9
Jan-15-2018	54.6	108.3					6,753.0	735.7
Jan-16-2018	31.9	63.2	0.0276	18.5			6,753.0	429.1
Jan-17-2018	1.6	3.2					6,753.0	21.7
Jan-18-2018	0.6	1.3					6,753.0	8.7
Jan-19-2018	0.6	1.1				6,753.0	6,753.0	7.5
Jan-20-2018	0.4	0.9					6,380.0	5.6
Jan-21-2018	0.4	0.9					6,380.0	5.5
Jan-22-2018	0.3	0.7					6,380.0	4.4
Jan-23-2018	0.3	0.6	0.0229	11.2	6,380.0	6,608.0	6,380.0	3.5
Jan-24-2018	0.2	0.5					6,330.0	2.9
Jan-25-2018	0.4	0.9					6,330.0	5.4
Jan-26-2018	0.5	1.0					6,330.0	6.4
Jan-27-2018	0.5	1.0					6,330.0	6.6
Jan-28-2018	0.5	1.0					6,330.0	6.3
Jan-29-2018	0.4	0.7					6,330.0	4.7
Jan-30-2018	0.2	0.4	0.0203	11.5	6,330.0	6,550.0	6,330.0	2.5
Jan-31-2018	0.0	0.0					7,210.0	0.2
Feb-01-2018	0.2	0.3					7,210.0	2.4
Feb-02-2018	0.2	0.5					7,210.0	3.3
Feb-03-2018	0.2	0.4					7,210.0	2.9
Feb-04-2018	0.2	0.4					7,210.0	2.9
Feb-05-2018	0.2	0.4					7,210.0	2.9
Feb-06-2018	0.2	0.4	0.0110	15.3	7,210.0		7,210.0	2.9
Feb-07-2018	0.1	0.3					7,540.0	2.2
Feb-08-2018	0.0	0.0						0.0
Feb-09-2018	0.0	0.0						0.0
Feb-10-2018	0.0	0.0						0.0
Feb-11-2018	0.0	0.0						0.0
Feb-12-2018	0.0	0.0						0.0
Feb-13-2018	0.0	0.0						0.0
Feb-14-2018	0.0	0.0						0.0
Feb-15-2018	0.0	0.0						0.0
Feb-16-2018	0.0	0.0						0.0
Feb-17-2018	0.0	0.0						0.0
Feb-18-2018	0.0	0.0						0.0
Feb-19-2018	0.0	0.0						0.0
Feb-20-2018	0.0	0.0						0.0
Feb-21-2018	0.0	0.0						0.0
Feb-22-2018	0.0	0.0						0.0
Feb-23-2018	0.0	0.0						0.0
Feb-24-2018	0.0	0.0						0.0
Feb-25-2018	0.0	0.0					8,090.0	0.2
Feb-26-2018	0.0	0.0					8,090.0	0.3
Feb-27-2018	0.0	0.1	0.0068	13.7	8,090.0		8,090.0	0.6
Feb-28-2018	45.3	89.9					5,710.0	516.3
Mar-01-2018	47.1	93.4					5,710.0	536.5
Mar-02-2018	90.7	179.9					5,710.0	1,033.1
Mar-03-2018	111.0	220.2					5,710.0	1,264.4
Mar-04-2018	90.4	179.4					5,710.0	1,030.2
Mar-05-2018	56.1	111.3	0.0244	9.8	5,710.0	5,890.0	5,710.0	638.9
Mar-06-2018	53.8	106.8					5,885.0	632.0
Mar-07-2018	49.1	97.5					6,060.0	594.1
Mar-08-2018	43.8	86.9					6,060.0	529.8
Mar-09-2018	34.9	69.2					6,060.0	421.7
Mar-10-2018	27.4	54.4					6,060.0	331.2
Mar-11-2018	27.4	54.4					6,060.0	331.2
Mar-12-2018	26.0	51.6					6,060.0	314.6
Mar-13-2018	25.0	49.5	0.0352	10.1	6,060.0	6,230.0	6,060.0	301.6
Mar-14-2018	25.0	49.5					6,640.0	330.6
Mar-15-2018	20.6	40.8					6,640.0	272.6
Mar-16-2018	8.0	15.9					6,640.0	106.1
Mar-17-2018	0.3	0.5					6,640.0	3.5
Mar-18-2018	0.0	0.0						0.0
Mar-19-2018	0.0	0.0						0.0
Mar-20-2018	0.0	0.1	0.0322	12.0	6,640.0	6,855.0	6,640.0	0.5
Mar-21-2018	45.0	89.2					6,470.0	580.5
Mar-22-2018	77.3	153.4					6,470.0	998.0
Mar-23-2018	51.9	103.0					6,470.0	670.2
Mar-24-2018	26.5	52.5					6,470.0	341.4
Mar-25-2018	10.6	21.0					6,470.0	136.4
Mar-26-2018	0.5	1.1					6,470.0	6.9
Mar-27-2018	0.4	0.7	0.0279	18.2	6,470.0		6,470.0	4.8
Mar-28-2018	0.3	0.7					6,840.0	4.5
Mar-29-2018	0.3	0.5					6,840.0	3.5
Mar-30-2018	0.2	0.5					6,840.0	3.4

PARAMETER	Flow	Discharge	Total Selenium	Total Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Daily Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	microm	microm	tons
Mar-31-2018	0.2	0.4					6,840.0	2.9
Apr-01-2018	0.1	0.3					6,840.0	1.8
Apr-02-2018	0.0	0.1					6,840.0	0.5
Apr-03-2018	0.0	0.1	0.0227	18.7	6,840.0	7,122.0	6,840.0	0.4
Apr-04-2018	0.0	0.0				7,122.0	7,075.0	0.2
Apr-05-2018	0.1	0.2					7,310.0	1.2
Apr-06-2018	0.1	0.2					7,310.0	1.7
Apr-07-2018	0.1	0.3					7,310.0	2.0
Apr-08-2018	0.1	0.1					7,310.0	0.8
Apr-09-2018	0.0	0.1					7,310.0	0.7
Apr-10-2018	0.0	0.1					7,310.0	0.4
Apr-11-2018	0.0	0.0	0.0138	22.1	7,310.0	7,610.0	7,310.0	0.2
Apr-12-2018	0.0	0.1					7,590.0	0.4
Apr-13-2018	0.1	0.1					7,590.0	1.1
Apr-14-2018	0.1	0.1					7,590.0	0.8
Apr-15-2018	0.0	0.0						0.0
Apr-16-2018	0.0	0.0						0.0
Apr-17-2018	0.0	0.0						0.0
Apr-18-2018	0.2	0.3					7,810.0	2.4
Apr-19-2018	0.3	0.6					7,810.0	4.6
Apr-20-2018	0.2	0.3					7,810.0	2.7
Apr-21-2018	0.1	0.3					7,810.0	2.3
Apr-22-2018	0.1	0.2					7,810.0	1.8
Apr-23-2018	0.1	0.2					7,810.0	1.7
Apr-24-2018	0.1	0.1	0.0069	30.1	7,810.0	8,207.0	7,810.0	1.0
Apr-25-2018	0.0	0.0					8,430.0	0.2
Apr-26-2018	0.0	0.0						0.0
Apr-27-2018	0.0	0.0						0.0
Apr-28-2018	0.0	0.0						0.0
Apr-29-2018	0.0	0.0						0.0
Apr-30-2018	0.0	0.0						0.0
May-01-2018	0.0	0.0						0.0
May-02-2018	0.0	0.0						0.0
May-03-2018	0.0	0.0						0.0
May-04-2018	0.0	0.0						0.0
May-05-2018	0.0	0.0						0.0
May-06-2018	0.0	0.0						0.0
May-07-2018	0.0	0.0						0.0
May-08-2018	0.0	0.0						0.0
May-09-2018	0.0	0.0						0.0
May-10-2018	0.0	0.0						0.0
May-11-2018	0.0	0.0						0.0
May-12-2018	0.0	0.0						0.0
May-13-2018	0.0	0.0						0.0
May-14-2018	0.0	0.0						0.0
May-15-2018	0.0	0.0						0.0
May-16-2018	0.0	0.0						0.0
May-17-2018	0.0	0.0						0.0
May-18-2018	0.0	0.0						0.0
May-19-2018	0.0	0.0						0.0
May-20-2018	0.0	0.0						0.0
May-21-2018	0.0	0.0						0.0
May-22-2018	0.0	0.0						0.0
May-23-2018	0.0	0.0						0.0
May-24-2018	0.0	0.0						0.0
May-25-2018	0.0	0.0						0.0
May-26-2018	0.0	0.0						0.0
May-27-2018	0.0	0.0						0.0
May-28-2018	0.0	0.0						0.0
May-29-2018	0.0	0.0						0.0
May-30-2018	0.0	0.0						0.0
May-31-2018	0.0	0.0						0.0
Jun-01-2018	0.0	0.0						0.0
Jun-02-2018	0.0	0.0						0.0
Jun-03-2018	0.0	0.0						0.0
Jun-04-2018	0.0	0.0						0.0
Jun-05-2018	0.0	0.0						0.0
Jun-06-2018	0.0	0.0						0.0
Jun-07-2018	0.0	0.0						0.0
Jun-08-2018	0.0	0.0						0.0
Jun-09-2018	0.0	0.0						0.0
Jun-10-2018	0.0	0.0						0.0
Jun-11-2018	0.0	0.0						0.0
Jun-12-2018	0.0	0.0						0.0
Jun-13-2018	0.0	0.0						0.0
Jun-14-2018	0.0	0.0						0.0
Jun-15-2018	0.0	0.0						0.0
Jun-16-2018	0.0	0.0						0.0
Jun-17-2018	0.0	0.0						0.0
Jun-18-2018	0.0	0.0						0.0
Jun-19-2018	0.0	0.0						0.0
Jun-20-2018	0.0	0.0						0.0
Jun-21-2018	0.0	0.0						0.0
Jun-22-2018	0.0	0.0						0.0
Jun-23-2018	0.0	0.0						0.0
Jun-24-2018	0.0	0.0						0.0
Jun-25-2018	0.0	0.0						0.0
Jun-26-2018	0.0	0.0						0.0
Jun-27-2018	0.0	0.0						0.0
Jun-28-2018	0.0	0.0						0.0

PARAMETER	Flow	Discharge	Total Selenium	Total Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Daily Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	microm	microm	tons
Jun-29-2018	0.0	0.0						0.0
Jun-30-2018	0.0	0.0						0.0
Jul-01-2018	0.0	0.0						0.0
Jul-02-2018	0.0	0.0						0.0
Jul-03-2018	0.0	0.0						0.0
Jul-04-2018	0.0	0.0						0.0
Jul-05-2018	0.0	0.0						0.0
Jul-06-2018	0.0	0.0						0.0
Jul-07-2018	0.0	0.0						0.0
Jul-08-2018	0.0	0.0						0.0
Jul-09-2018	0.0	0.0						0.0
Jul-10-2018	0.0	0.0						0.0
Jul-11-2018	0.0	0.0						0.0
Jul-12-2018	0.0	0.0						0.0
Jul-13-2018	0.0	0.0						0.0
Jul-14-2018	0.0	0.0						0.0
Jul-15-2018	0.0	0.0						0.0
Jul-16-2018	0.0	0.0						0.0
Jul-17-2018	0.0	0.0						0.0
Jul-18-2018	0.0	0.0						0.0
Jul-19-2018	0.0	0.0						0.0
Jul-20-2018	0.0	0.0						0.0
Jul-21-2018	0.0	0.0						0.0
Jul-22-2018	0.0	0.0						0.0
Jul-23-2018	0.0	0.0						0.0
Jul-24-2018	0.0	0.0						0.0
Jul-25-2018	0.0	0.0						0.0
Jul-26-2018	0.0	0.0						0.0
Jul-27-2018	0.0	0.0						0.0
Jul-28-2018	0.0	0.0						0.0
Jul-29-2018	0.0	0.0						0.0
Jul-30-2018	0.0	0.0						0.0
Jul-31-2018	0.0	0.0						0.0
Aug-01-2018	0.0	0.0						0.0
Aug-02-2018	0.0	0.0						0.0
Aug-03-2018	0.0	0.0						0.0
Aug-04-2018	0.0	0.0						0.0
Aug-05-2018	0.0	0.0						0.0
Aug-06-2018	0.0	0.0						0.0
Aug-07-2018	0.0	0.0						0.0
Aug-08-2018	0.0	0.0						0.0
Aug-09-2018	0.0	0.0						0.0
Aug-10-2018	0.0	0.0						0.0
Aug-11-2018	0.0	0.0						0.0
Aug-12-2018	0.0	0.0						0.0
Aug-13-2018	0.0	0.0						0.0
Aug-14-2018	0.0	0.0						0.0
Aug-15-2018	0.0	0.0						0.0
Aug-16-2018	0.0	0.0						0.0
Aug-17-2018	0.0	0.0						0.0
Aug-18-2018	0.0	0.0						0.0
Aug-19-2018	0.0	0.0						0.0
Aug-20-2018	0.0	0.0						0.0
Aug-21-2018	0.0	0.0						0.0
Aug-22-2018	0.0	0.0						0.0
Aug-23-2018	0.0	0.0						0.0
Aug-24-2018	0.0	0.0						0.0
Aug-25-2018	0.0	0.0						0.0
Aug-26-2018	0.0	0.0						0.0
Aug-27-2018	0.0	0.0						0.0
Aug-28-2018	0.0	0.0						0.0
Aug-29-2018	0.0	0.0						0.0
Aug-30-2018	0.0	0.0						0.0
Aug-31-2018	0.0	0.0						0.0
Sep-01-2018	0.0	0.0						0.0
Sep-02-2018	0.0	0.0						0.0
Sep-03-2018	0.0	0.0						0.0
Sep-04-2018	0.0	0.0						0.0
Sep-05-2018	0.0	0.0						0.0
Sep-06-2018	0.0	0.0						0.0
Sep-07-2018	0.0	0.0						0.0
Sep-08-2018	0.0	0.0						0.0
Sep-09-2018	0.0	0.0						0.0
Sep-10-2018	0.0	0.0						0.0
Sep-11-2018	0.0	0.0						0.0
Sep-12-2018	0.0	0.0						0.0
Sep-13-2018	0.0	0.0						0.0
Sep-14-2018	0.0	0.0						0.0
Sep-15-2018	0.0	0.0						0.0
Sep-16-2018	0.0	0.0						0.0
Sep-17-2018	0.0	0.0						0.0
Sep-18-2018	0.0	0.0						0.0
Sep-19-2018	0.0	0.0						0.0
Sep-20-2018	0.0	0.0						0.0
Sep-21-2018	0.0	0.0						0.0
Sep-22-2018	0.0	0.0						0.0
Sep-23-2018	0.0	0.0						0.0
Sep-24-2018	0.0	0.0						0.0
Sep-25-2018	0.1	0.2	0.0276	11.8	6,550.0	6,820.0	6,550.0	1.5
Sep-26-2018	0.0	0.0						0.0

PARAMETER	Flow	Discharge	Total Selenium	Total Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Daily Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	microm	microm	tons
Sep-27-2018	0.0	0.0						0.0
Sep-28-2018	0.0	0.0						0.0
Sep-29-2018	0.0	0.0						0.0
Sep-30-2018	0.0	0.0						0.0
Oct-01-2018	0.0	0.0						0.0
Oct-02-2018	0.0	0.0						0.0
Oct-03-2018	0.0	0.0						0.0
Oct-04-2018	0.0	0.0						0.0
Oct-05-2018	0.0	0.0						0.0
Oct-06-2018	0.0	0.0						0.0
Oct-07-2018	0.0	0.0						0.0
Oct-08-2018	0.0	0.0						0.0
Oct-09-2018	0.0	0.0						0.0
Oct-10-2018	0.0	0.0						0.0
Oct-11-2018	0.0	0.0						0.0
Oct-12-2018	0.0	0.0						0.0
Oct-13-2018	0.0	0.0						0.0
Oct-14-2018	0.0	0.0						0.0
Oct-15-2018	0.0	0.0						0.0
Oct-16-2018	0.0	0.0						0.0
Oct-17-2018	0.0	0.0						0.0
Oct-18-2018	0.0	0.0						0.0
Oct-19-2018	0.0	0.0						0.0
Oct-20-2018	0.0	0.0						0.0
Oct-21-2018	0.0	0.0						0.0
Oct-22-2018	0.0	0.0						0.0
Oct-23-2018	0.0	0.0						0.0
Oct-24-2018	0.0	0.0						0.0
Oct-25-2018	0.0	0.0						0.0
Oct-26-2018	0.0	0.0						0.0
Oct-27-2018	0.0	0.0						0.0
Oct-28-2018	0.0	0.0						0.0
Oct-29-2018	0.0	0.0						0.0
Oct-30-2018	0.0	0.0						0.0
Oct-31-2018	0.0	0.0						0.0
Nov-01-2018	0.0	0.0						0.0
Nov-02-2018	0.0	0.0						0.0
Nov-03-2018	0.0	0.0						0.0
Nov-04-2018	0.0	0.0						0.0
Nov-05-2018	0.0	0.0						0.0
Nov-06-2018	0.0	0.0						0.0
Nov-07-2018	0.0	0.0						0.0
Nov-08-2018	0.0	0.0						0.0
Nov-09-2018	0.0	0.0						0.0
Nov-10-2018	0.0	0.0						0.0
Nov-11-2018	0.0	0.0						0.0
Nov-12-2018	0.0	0.0						0.0
Nov-13-2018	0.0	0.0						0.0
Nov-14-2018	0.0	0.0						0.0
Nov-15-2018	0.0	0.0						0.0
Nov-16-2018	0.0	0.0						0.0
Nov-17-2018	0.0	0.0						0.0
Nov-18-2018	0.0	0.0						0.0
Nov-19-2018	0.0	0.0						0.0
Nov-20-2018	0.0	0.0						0.0
Nov-21-2018	0.0	0.0						0.0
Nov-22-2018	1.2	2.3					9,410.0	21.8
Nov-23-2018	2.4	4.7					9,410.0	44.7
Nov-24-2018	0.2	0.4					9,410.0	3.8
Nov-25-2018	0.0	0.0					9,410.0	0.4
Nov-26-2018	0.1	0.1					9,410.0	1.0
Nov-27-2018	0.1	0.1	0.0160	17.3	9,410.0	9,785.0	9,410.0	1.3
Nov-28-2018	4.0	8.0					7,390.0	59.2
Nov-29-2018	62.3	123.5					7,390.0	917.7
Nov-30-2018	65.1	129.0					7,390.0	958.9
Dec-01-2018	26.7	53.0					7,390.0	393.5
Dec-02-2018	20.6	41.0					7,390.0	304.4
Dec-03-2018	12.8	25.4					7,390.0	188.8
Dec-04-2018	1.0	1.9	0.0220	12.5	7,390.0		7,390.0	14.5
Dec-05-2018	0.7	1.3					7,900.0	10.5
Dec-06-2018	0.7	1.4					7,900.0	11.3
Dec-07-2018	0.9	1.8					7,900.0	14.0
Dec-08-2018	1.2	2.3					7,900.0	18.6
Dec-09-2018	0.8	1.6					7,900.0	12.4
Dec-10-2018	0.7	1.3					7,900.0	10.5
Dec-11-2018	0.4	0.9	0.0193	12.9	7,900.0		7,900.0	6.8
Dec-12-2018	0.1	0.1					8,620.0	1.2
Dec-13-2018	0.1	0.1					8,620.0	1.2
Dec-14-2018	0.0	0.1					8,620.0	0.8
Dec-15-2018	0.0	0.1					8,620.0	0.8
Dec-16-2018	0.1	0.2					8,620.0	1.5
Dec-17-2018	35.2	69.9					8,620.0	605.9
Dec-18-2018	50.2	99.6	0.0175	18.2	8,620.0	8,890.0	8,620.0	863.5
Dec-19-2018	16.7	33.2					8,105.0	270.4
Dec-20-2018	2.0	3.9					8,105.0	31.7
Dec-21-2018	0.5	1.0					7,590.0	7.6
Dec-22-2018	0.3	0.5					7,590.0	4.1
Dec-23-2018	0.3	0.5					7,590.0	3.8
Dec-24-2018	0.2	0.4					7,590.0	3.4

PARAMETER	Flow	Discharge	Total Selenium	Total Boron	Specific Conductance	Field Grab	Daily Specific Conductance	Daily Salt Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	microm	microm	tons
Dec-25-2018	12.5	24.7					7,590.0	188.8
Dec-26-2018	27.9	55.4					7,590.0	422.9
Dec-27-2018	12.7	25.1	0.0345	12.9	7,590.0	7,803.0	7,590.0	191.8
Dec-28-2018	0.4	0.8					7,470.0	5.7
Dec-29-2018	0.2	0.4					7,470.0	3.1
Dec-30-2018	0.2	0.4					7,470.0	2.8
Dec-31-2018	0.2	0.3					7,470.0	2.4

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-18	17.4	1,067.7	0.0223	14.9	7,083	7,204	6,847	8,027	7,282
Feb-18	1.7	92.7	0.0089	14.5	7,650	N/A	7,344	537	11,524
Mar-18	30.6	1,884.1	0.0299	12.5	6,220	6,325	6,300	11,425	13,653
Apr-18	0.1	3.8	0.0145	23.6	7,320	7,515	7,483	29	10,047
May-18	0.0	0.0	N/A	N/A	N/A	N/A	N/A	0	9,847
Jun-18	0.0	0.0	N/A	N/A	N/A	N/A	N/A	0	10,185
Jul-18	0.0	0.0	N/A	N/A	N/A	N/A	N/A	0	10,293
Aug-18	0.0	0.0	N/A	N/A	N/A	N/A	N/A	0	9,134
Sep-18	0.0	0.2	0.0276	11.8	6,550	6,820	6,550	1	4,825
Oct-18	0.0	0.0	N/A	N/A	N/A	N/A	N/A	0	3,706
Nov-18	4.5	268.2	0.0160	17.3	9,410	9,785	8,737	2,009	3,851
Dec-18	7.3	448.7	0.0233	14.1	7,875	8,347	7,885	3,599	4,253
Calendar Year Totals/Avgs:		3,765	0.020	15.5	7,444	7,666	7,307	25,627	98,600

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 (B2)	Daily Selenium	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	mg/L	lbs
Jan-01-2018	9.6	18.9	0.0014	2.8	2,490.0	0.0014	0.1
Jan-02-2018	9.6	18.9	0.0012	3.4	2,420.0	0.0012	0.1
Jan-03-2018	9.8	19.5	0.0012	3.4	2,420.0	0.0012	0.1
Jan-04-2018	11.8	23.4	0.0012	3.4	2,450.0	0.0012	0.1
Jan-05-2018	15.7	31.2	0.0012	3.4	2,490.0	0.0012	0.1
Jan-06-2018	13.0	25.9	0.0013	3.4	2,480.0	0.0013	0.1
Jan-07-2018	13.1	26.0	0.0013	3.4	2,480.0	0.0013	0.1
Jan-08-2018	14.6	28.9	0.0013	3.3	2,450.0	0.0013	0.1
Jan-09-2018	30.3	60.1	0.0013	3.0	2,370.0	0.0013	0.2
Jan-10-2018	85.6	169.9	0.0047	7.3	4,370.0	0.0047	2.2
Jan-11-2018	102.4	203.0	0.0155	16.2	8,310.0	0.0155	8.6
Jan-12-2018	79.6	157.9	0.0156	13.5	7,050.0	0.0156	6.7
Jan-13-2018	72.4	143.7	0.0203	12.6	6,920.0	0.0203	7.9
Jan-14-2018	72.5	143.8	0.0220	12.5	6,820.0	0.0220	8.6
Jan-15-2018	68.2	135.4	0.0222	12.5	6,850.0	0.0222	8.2
Jan-16-2018	64.8	128.5	0.0216	11.3	6,370.0	0.0216	7.5
Jan-17-2018	49.5	98.2	0.0243	11.5	6,500.0	0.0243	6.5
Jan-18-2018	21.6	42.9	0.0241	11.5	6,560.0	0.0241	2.8
Jan-19-2018	15.1	30.0	0.0253	11.5	6,630.0	0.0253	2.1
Jan-20-2018	13.6	27.1	0.0260	11.6	6,600.0	0.0260	1.9
Jan-21-2018	13.7	27.1	0.0228	11.4	6,410.0	0.0228	1.7
Jan-22-2018	13.3	26.4	0.0205	10.8	6,230.0	0.0205	1.5
Jan-23-2018	13.2	26.3	0.0218	10.8	6,210.0	0.0218	1.6
Jan-24-2018	13.4	26.5	0.0208	10.7	6,170.0	0.0208	1.5
Jan-25-2018	13.1	26.0	0.0175	9.4	5,570.0	0.0175	1.2
Jan-26-2018	12.7	25.3	0.0139	8.2	4,960.0	0.0139	1.0
Jan-27-2018	11.9	23.6	0.0103	7.0	4,330.0	0.0103	0.7
Jan-28-2018	12.1	24.0	0.0071	7.3	3,760.0	0.0071	0.5
Jan-29-2018	12.1	24.0	0.0055	5.0	3,310.0	0.0055	0.4
Jan-30-2018	12.0	23.9	0.0043	4.4	3,050.0	0.0043	0.3
Jan-31-2018	12.0	23.9	0.0038	4.3	2,980.0	0.0038	0.2
Feb-01-2018	12.0	23.8	0.0033	4.1	2,880.0	0.0033	0.2
Feb-02-2018	11.9	23.6	0.0030	3.8	2,800.0	0.0030	0.2
Feb-03-2018	12.0	23.9	0.0028	3.7	2,720.0	0.0028	0.2
Feb-04-2018	11.9	23.7	0.0027	3.7	2,730.0	0.0027	0.2
Feb-05-2018	12.1	23.9	0.0028	3.6	2,720.0	0.0028	0.2
Feb-06-2018	11.7	23.3	0.0021	3.8	2,580.0	0.0021	0.1
Feb-07-2018	12.1	23.9	0.0021	3.8	2,610.0	0.0021	0.1
Feb-08-2018	12.1	24.0	0.0022	3.8	2,620.0	0.0022	0.1
Feb-09-2018	12.5	24.7	0.0020	3.8	2,620.0	0.0020	0.1
Feb-10-2018	11.9	23.5	0.0022	3.7	2,620.0	0.0022	0.1
Feb-11-2018	12.8	25.3	0.0021	3.7	2,630.0	0.0021	0.1
Feb-12-2018	13.2	26.2	0.0021	3.8	2,670.0	0.0021	0.2
Feb-13-2018	13.3	26.4	0.0020	3.8	2,570.0	0.0020	0.1
Feb-14-2018	13.9	27.7	0.0021	3.2	2,690.0	0.0021	0.2
Feb-15-2018	14.1	28.0	0.0021	3.1	2,670.0	0.0021	0.2
Feb-16-2018	15.3	30.3	0.0022	3.1	2,670.0	0.0022	0.2
Feb-17-2018	15.3	30.3	0.0022	3.1	2,750.0	0.0022	0.2
Feb-18-2018	15.1	29.9	0.0022	3.2	2,860.0	0.0022	0.2
Feb-19-2018	15.2	30.1	0.0020	3.2	2,760.0	0.0020	0.2
Feb-20-2018	15.5	30.8	0.0020	3.1	2,860.0	0.0020	0.2
Feb-21-2018	15.6	30.9	0.0019	3.1	2,850.0	0.0019	0.2
Feb-22-2018	14.9	29.6	0.0020	3.2	2,890.0	0.0020	0.2
Feb-23-2018	13.1	25.9	0.0020	3.2	2,890.0	0.0020	0.1
Feb-24-2018	13.5	26.8	0.0019	3.2	2,890.0	0.0019	0.1
Feb-25-2018	13.7	27.2	0.0018	3.1	2,870.0	0.0018	0.1
Feb-26-2018	14.2	28.3	0.0019	3.2	3,000.0	0.0019	0.1
Feb-27-2018	14.9	29.5	0.0019	3.9	2,900.0	0.0019	0.2
Feb-28-2018	36.3	71.9	0.0017	3.7	2,850.0	0.0017	0.3
Mar-01-2018	61.1	121.2	0.0017	3.7	2,900.0	0.0017	0.6
Mar-02-2018	58.4	115.8	0.0093	10.3	5,780.0	0.0093	2.9
Mar-03-2018	98.0	194.4	0.0268	12.9	7,270.0	0.0268	14.2
Mar-04-2018	124.4	246.8	0.0202	14.2	7,640.0	0.0202	13.5
Mar-05-2018	107.9	214.0	0.0179	11.3	6,170.0	0.0179	10.4
Mar-06-2018	76.1	151.0	0.0192	10.6	5,930.0	0.0192	7.9
Mar-07-2018	69.5	137.9	0.0213	10.8	6,050.0	0.0213	8.0
Mar-08-2018	64.4	127.8	0.0234	9.7	5,690.0	0.0234	8.1
Mar-09-2018	58.5	116.0	0.0218	9.8	5,810.0	0.0218	6.9
Mar-10-2018	50.2	99.6	0.0247	9.6	5,780.0	0.0247	6.7
Mar-11-2018	38.9	77.1	0.0244	9.8	5,830.0	0.0244	5.1
Mar-12-2018	38.8	77.0	0.0259	9.7	5,870.0	0.0259	5.4
Mar-13-2018	39.6	78.5	0.0326	9.7	5,730.0	0.0326	7.0
Mar-14-2018	37.4	74.2	0.0326	8.7	5,560.0	0.0326	6.6
Mar-15-2018	36.6	72.5	0.0331	8.4	5,460.0	0.0331	6.5
Mar-16-2018	33.6	66.7	0.0346	8.5	5,380.0	0.0346	6.3
Mar-17-2018	26.1	51.8	0.0340	8.1	5,260.0	0.0340	4.8
Mar-18-2018	16.8	33.2	0.0322	8.5	5,280.0	0.0322	2.9
Mar-19-2018	13.6	26.9	0.0323	8.7	5,410.0	0.0323	2.4

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B2)	Daily Selenium	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	mg/L	lbs
Mar-20-2018	11.9	23.6	0.0297	9.4	5,510.0	0.0297	1.9
Mar-21-2018	12.0	23.9	0.0267	9.8	5,550.0	0.0267	1.7
Mar-22-2018	41.4	82.0	0.0236	9.6	5,570.0	0.0236	5.3
Mar-23-2018	93.8	186.0	0.0171	13.1	5,250.0	0.0171	8.6
Mar-24-2018	71.8	142.3	0.0248	22.7	7,330.0	0.0248	9.6
Mar-25-2018	43.2	85.7	0.0216	21.8	6,960.0	0.0216	5.0
Mar-26-2018	28.2	56.0	0.0239	20.8	6,770.0	0.0239	3.6
Mar-27-2018	14.5	28.7	0.0237	19.3	6,720.0	0.0237	1.8
Mar-28-2018	8.9	17.6	0.0234	18.6	6,560.0	0.0234	1.1
Mar-29-2018	8.0	15.9	0.0230	18.3	6,490.0	0.0230	1.0
Mar-30-2018	7.6	15.0	0.0230	18.1	6,490.0	0.0230	0.9
Mar-31-2018	7.0	13.9	0.0221	17.4	6,390.0	0.0221	0.8
Apr-01-2018	6.4	12.7	0.0221	16.8	6,290.0	0.0221	0.8
Apr-02-2018	6.2	12.3	0.0222	16.0	6,130.0	0.0222	0.7
Apr-03-2018	6.2	12.4	0.0218	16.0	5,980.0	0.0218	0.7
Apr-04-2018	6.0	11.9	0.0203	15.3	5,860.0	0.0203	0.7
Apr-05-2018	5.5	10.9	0.0182	14.7	5,740.0	0.0182	0.5
Apr-06-2018	5.4	10.7	0.0169	14.0	5,530.0	0.0169	0.5
Apr-07-2018	5.8	11.4	0.0147	13.0	5,310.0	0.0147	0.5
Apr-08-2018	5.0	10.0	0.0131	12.5	5,180.0	0.0131	0.4
Apr-09-2018	5.1	10.2	0.0119	11.4	4,920.0	0.0119	0.3
Apr-10-2018	5.0	10.0	0.0109	10.3	4,630.0	0.0109	0.3
Apr-11-2018	4.2	8.3	0.0085	9.4	4,400.0	0.0085	0.2
Apr-12-2018	3.1	6.1	0.0075	8.9	4,250.0	0.0075	0.1
Apr-13-2018	3.0	5.9	0.0069	8.6	4,150.0	0.0069	0.1
Apr-14-2018	3.2	6.3	0.0063	8.2	4,010.0	0.0063	0.1
Apr-15-2018	3.0	6.0	0.0061	8.0	3,930.0	0.0061	0.1
Apr-16-2018	3.0	5.9	0.0058	7.6	3,850.0	0.0058	0.1
Apr-17-2018	2.7	5.5	0.0057	8.5	3,830.0	0.0057	0.1
Apr-18-2018	3.0	6.0	0.0051	8.3	3,730.0	0.0051	0.1
Apr-19-2018	2.6	5.2	0.0045	8.0	3,680.0	0.0045	0.1
Apr-20-2018	2.7	5.4	0.0043	7.9	3,660.0	0.0043	0.1
Apr-21-2018	2.9	5.7	0.0043	7.7	3,650.0	0.0043	0.1
Apr-22-2018	2.8	5.5	0.0041	7.8	3,650.0	0.0041	0.1
Apr-23-2018	12.5	24.8	0.0038	7.5	3,550.0	0.0038	0.3
Apr-24-2018	10.4	20.6	0.0036	7.2	3,510.0	0.0036	0.2
Apr-25-2018	17.0	33.7	0.0038	7.0	3,440.0	0.0038	0.3
Apr-26-2018	46.3	91.9	0.0040	7.2	3,630.0	0.0040	1.0
Apr-27-2018	25.5	50.6	0.0035	6.5	3,360.0	0.0035	0.5
Apr-28-2018	18.7	37.2	0.0037	6.1	3,110.0	0.0037	0.4
Apr-29-2018	17.5	34.7	0.0039	6.9	3,420.0	0.0039	0.4
Apr-30-2018	16.1	31.9	0.0036	6.0	3,180.0	0.0036	0.3
May-01-2018	18.7	37.1	0.0032	4.6	2,820.0	0.0032	0.3
May-02-2018	16.5	32.8	0.0032	4.5	2,850.0	0.0032	0.3
May-03-2018	8.9	17.7	0.0032	4.4	2,780.0	0.0032	0.2
May-04-2018	14.6	28.9	0.0027	4.4	2,810.0	0.0027	0.2
May-05-2018	13.8	27.4	0.0027	4.3	2,830.0	0.0027	0.2
May-06-2018	14.5	28.7	0.0029	5.0	2,990.0	0.0029	0.2
May-07-2018	14.3	28.4	0.0032	6.7	3,470.0	0.0032	0.2
May-08-2018	13.5	26.7	0.0026	4.9	2,940.0	0.0026	0.2
May-09-2018	12.8	25.4	0.0027	5.2	2,980.0	0.0027	0.2
May-10-2018	12.8	25.3	0.0028	5.0	3,010.0	0.0028	0.2
May-11-2018	10.9	21.5	0.0027	5.2	3,040.0	0.0027	0.2
May-12-2018	11.9	23.5	0.0024	5.5	3,130.0	0.0024	0.2
May-13-2018	11.1	21.9	0.0025	3.7	3,210.0	0.0025	0.1
May-14-2018	11.4	22.6	0.0026	3.6	3,200.0	0.0026	0.2
May-15-2018	10.8	21.4	0.0027	4.8	3,160.0	0.0027	0.2
May-16-2018	11.8	23.4	0.0028	4.7	3,140.0	0.0028	0.2
May-17-2018	12.1	24.0	0.0029	4.9	3,190.0	0.0029	0.2
May-18-2018	11.7	23.1	0.0030	5.0	3,320.0	0.0030	0.2
May-19-2018	11.2	22.2	0.0026	5.1	3,370.0	0.0026	0.2
May-20-2018	10.9	21.6	0.0027	5.0	3,370.0	0.0027	0.2
May-21-2018	11.1	22.0	0.0027	5.3	3,390.0	0.0027	0.2
May-22-2018	10.8	21.5	0.0026			0.0026	0.2
May-23-2018	10.1	20.1	0.0028			0.0028	0.2
May-24-2018	11.1	22.1	0.0028			0.0028	0.2
May-25-2018	12.0	23.8	0.0026			0.0026	0.2
May-26-2018	12.5	24.9	0.0026			0.0026	0.2
May-27-2018	12.1	24.0	0.0027			0.0027	0.2
May-28-2018	12.1	24.0	0.0026			0.0026	0.2
May-29-2018	11.6	22.9	0.0024	4.4	3,310.0	0.0024	0.2
May-30-2018	10.8	21.4	0.0028	4.3	3,290.0	0.0028	0.2
May-31-2018	9.8	19.4	0.0024	4.2	3,260.0	0.0024	0.1
Jun-01-2018	9.6	19.0	0.0022	4.0	3,180.0	0.0022	0.1
Jun-02-2018	9.6	19.1	0.0020	4.0	3,140.0	0.0020	0.1
Jun-03-2018	9.3	18.5	0.0021	3.8	3,090.0	0.0021	0.1
Jun-04-2018	8.6	17.1	0.0023	3.9	3,020.0	0.0023	0.1
Jun-05-2018	8.5	16.8	0.0023	4.1	2,970.0	0.0023	0.1
Jun-06-2018	8.4	16.6	0.0024	3.7	2,960.0	0.0024	0.1
Jun-07-2018	7.8	15.4	0.0023	3.7	2,970.0	0.0023	0.1
Jun-08-2018	8.0	15.9	0.0023	3.8	2,980.0	0.0023	0.1
Jun-09-2018	7.6	15.1	0.0024	3.8	3,010.0	0.0024	0.1

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B2)	Daily Selenium	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	mg/L	lbs
Jun-10-2018	7.3	14.4	0.0023	3.8	3,020.0	0.0023	0.1
Jun-11-2018	7.6	15.2	0.0024	3.7	2,980.0	0.0024	0.1
Jun-12-2018	7.3	14.5	0.0024	4.0	2,970.0	0.0024	0.1
Jun-13-2018	6.6	13.0	0.0027	3.9	2,970.0	0.0027	0.1
Jun-14-2018	6.3	12.4	0.0026	3.8	2,940.0	0.0026	0.1
Jun-15-2018	6.1	12.0	0.0025	3.8	2,910.0	0.0025	0.1
Jun-16-2018	6.1	12.1	0.0026	3.8	2,910.0	0.0026	0.1
Jun-17-2018	6.1	12.1	0.0026	3.8	2,950.0	0.0026	0.1
Jun-18-2018	6.1	12.0	0.0026	3.8	2,920.0	0.0026	0.1
Jun-19-2018	6.0	11.8	0.0024	3.9	2,950.0	0.0024	0.1
Jun-20-2018	5.7	11.4	0.0023	3.8	2,910.0	0.0023	0.1
Jun-21-2018	5.7	11.4	0.0023	3.7	2,850.0	0.0023	0.1
Jun-22-2018	5.7	11.3	0.0024	3.6	2,800.0	0.0024	0.1
Jun-23-2018	5.4	10.7	0.0024	3.5	2,750.0	0.0024	0.1
Jun-24-2018	5.6	11.1	0.0025	3.4	2,690.0	0.0025	0.1
Jun-25-2018	5.3	10.5	0.0025	3.3	2,610.0	0.0025	0.1
Jun-26-2018	5.3	10.5	0.0027	3.3	2,580.0	0.0027	0.1
Jun-27-2018	5.2	10.3	0.0025	3.2	2,530.0	0.0025	0.1
Jun-28-2018	4.3	8.5	0.0023	3.1	2,480.0	0.0023	0.1
Jun-29-2018	3.2	6.3	0.0025	3.0	2,440.0	0.0025	0.0
Jun-30-2018	2.8	5.6	0.0025	3.0	2,400.0	0.0025	0.0
Jul-01-2018	2.3	4.6	0.0023	3.0	2,400.0	0.0023	0.0
Jul-02-2018	2.0	3.9	0.0023	3.0	2,400.0	0.0023	0.0
Jul-03-2018	1.8	3.6	0.0026			0.0026	0.0
Jul-04-2018	2.0	4.0	0.0025			0.0025	0.0
Jul-05-2018	1.9	3.8	0.0022			0.0022	0.0
Jul-06-2018	1.8	3.6	0.0023			0.0023	0.0
Jul-07-2018	2.3	4.6	0.0023			0.0023	0.0
Jul-08-2018	2.3	4.6	0.0025			0.0025	0.0
Jul-09-2018	2.0	4.1	0.0028			0.0028	0.0
Jul-10-2018	1.9	3.7	0.0027	3.2	2,560.0	0.0027	0.0
Jul-11-2018	1.5	3.0	0.0025	3.2	2,560.0	0.0025	0.0
Jul-12-2018	1.2	2.4	0.0027	3.1	2,520.0	0.0027	0.0
Jul-13-2018	1.0	1.9	0.0027	3.2	2,540.0	0.0027	0.0
Jul-14-2018	0.9	1.9	0.0027	3.2	2,520.0	0.0027	0.0
Jul-15-2018	1.2	2.3	0.0026	3.4	2,520.0	0.0026	0.0
Jul-16-2018	1.2	2.4	0.0029	3.3	2,520.0	0.0029	0.0
Jul-17-2018	1.2	2.3	0.0028	3.4	2,620.0	0.0028	0.0
Jul-18-2018	1.3	2.7	0.0028	3.2	2,560.0	0.0028	0.0
Jul-19-2018	1.3	2.7	0.0025	3.1	2,450.0	0.0025	0.0
Jul-20-2018	1.3	2.5	0.0024	3.0	2,400.0	0.0024	0.0
Jul-21-2018	1.4	2.8	0.0026	3.0	2,420.0	0.0026	0.0
Jul-22-2018	1.3	2.6	0.0023	3.1	2,490.0	0.0023	0.0
Jul-23-2018	1.4	2.7	0.0021	3.2	2,540.0	0.0021	0.0
Jul-24-2018	1.4	2.7	0.0022	3.2	2,610.0	0.0022	0.0
Jul-25-2018	1.1	2.3	0.0021	3.3	2,580.0	0.0021	0.0
Jul-26-2018	1.3	2.6	0.0023	3.1	2,510.0	0.0023	0.0
Jul-27-2018	1.5	2.9	0.0025	2.9	2,440.0	0.0025	0.0
Jul-28-2018	1.2	2.4	0.0026	2.9	2,430.0	0.0026	0.0
Jul-29-2018	1.7	3.3	0.0025	3.0	2,450.0	0.0025	0.0
Jul-30-2018	1.6	3.1	0.0026	3.0	2,460.0	0.0026	0.0
Jul-31-2018	1.4	2.7	0.0028	3.1	2,510.0	0.0028	0.0
Aug-01-2018	1.2	2.5	0.0025	3.0	2,490.0	0.0025	0.0
Aug-02-2018	1.1	2.1	0.0029	3.0	2,510.0	0.0029	0.0
Aug-03-2018	1.0	1.9	0.0027	3.1	2,540.0	0.0027	0.0
Aug-04-2018	0.9	1.8	0.0027	3.2	2,610.0	0.0027	0.0
Aug-05-2018	0.9	1.9	0.0028	3.4	2,720.0	0.0028	0.0
Aug-06-2018	0.9	1.9	0.0030	3.6	2,810.0	0.0030	0.0
Aug-07-2018	1.2	2.4	0.0024	3.3	2,990.0	0.0024	0.0
Aug-08-2018	1.2	2.4	0.0026	3.4	3,110.0	0.0026	0.0
Aug-09-2018	1.2	2.4	0.0025	3.5	3,160.0	0.0025	0.0
Aug-10-2018	1.1	2.2	0.0022	3.5	3,150.0	0.0022	0.0
Aug-11-2018	1.1	2.1	0.0025	3.5	3,150.0	0.0025	0.0
Aug-12-2018	1.0	2.0	0.0026	3.5	3,070.0	0.0026	0.0
Aug-13-2018	0.7	1.5	0.0026	3.4	2,970.0	0.0026	0.0
Aug-14-2018	0.8	1.5	0.0026	3.5	2,990.0	0.0026	0.0
Aug-15-2018	1.0	2.0	0.0028	3.5	2,920.0	0.0028	0.0
Aug-16-2018	1.1	2.1	0.0030	3.5	2,900.0	0.0030	0.0
Aug-17-2018	1.0	2.1	0.0027	3.5	2,890.0	0.0027	0.0
Aug-18-2018	1.0	2.0	0.0027	3.5	2,850.0	0.0027	0.0
Aug-19-2018	1.2	2.4	0.0029	3.5	2,790.0	0.0029	0.0
Aug-20-2018	1.2	2.5	0.0029	3.5	2,740.0	0.0029	0.0
Aug-21-2018	1.2	2.3	0.0028	3.1	2,720.0	0.0028	0.0
Aug-22-2018	1.3	2.6	0.0028	3.0	2,670.0	0.0028	0.0
Aug-23-2018	1.2	2.4	0.0029	3.0	2,630.0	0.0029	0.0
Aug-24-2018	1.3	2.6	0.0025	3.0	2,620.0	0.0025	0.0
Aug-25-2018	1.3	2.7	0.0028	3.1	2,660.0	0.0028	0.0
Aug-26-2018	1.3	2.7	0.0028	3.1	2,710.0	0.0028	0.0
Aug-27-2018	1.4	2.7	0.0030	3.1	2,780.0	0.0030	0.0
Aug-28-2018	1.3	2.5	0.0031	3.2	2,880.0	0.0031	0.0
Aug-29-2018	1.4	2.7	0.0032	3.2	2,900.0	0.0032	0.0
Aug-30-2018	1.2	2.5	0.0035	2.9	2,900.0	0.0035	0.0

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B2)	Daily Selenium	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	mg/L	lbs
Aug-31-2018	1.3	2.6	0.0028	2.9	2,860.0	0.0028	0.0
Sep-01-2018	1.6	3.2	0.0028	2.9	2,790.0	0.0028	0.0
Sep-02-2018	2.5	5.0	0.0026	2.8	2,620.0	0.0026	0.0
Sep-03-2018	3.0	6.0	0.0028	2.7	2,440.0	0.0028	0.0
Sep-04-2018	3.5	7.0	0.0033	3.1	2,620.0	0.0033	0.1
Sep-05-2018	3.9	7.7	0.0035	3.4	2,700.0	0.0035	0.1
Sep-06-2018	3.9	7.7	0.0036	3.3	2,630.0	0.0036	0.1
Sep-07-2018	4.0	8.0	0.0036	3.0	2,460.0	0.0036	0.1
Sep-08-2018	3.8	7.6	0.0035	2.9	2,330.0	0.0035	0.1
Sep-09-2018	3.9	7.7	0.0032	2.9	2,260.0	0.0032	0.1
Sep-10-2018	3.9	7.7	0.0033	2.9	2,280.0	0.0033	0.1
Sep-11-2018	4.2	8.2	0.0033	3.0	2,310.0	0.0033	0.1
Sep-12-2018	4.1	8.2	0.0031	3.0	2,340.0	0.0031	0.1
Sep-13-2018	4.2	8.3	0.0033	3.1	2,410.0	0.0033	0.1
Sep-14-2018	4.4	8.8	0.0035	3.1	2,430.0	0.0035	0.1
Sep-15-2018	4.8	9.4	0.0033	3.1	2,460.0	0.0033	0.1
Sep-16-2018	4.9	9.8	0.0032	3.1	2,530.0	0.0032	0.1
Sep-17-2018	5.3	10.6	0.0034	3.2	2,550.0	0.0034	0.1
Sep-18-2018	5.6	11.1	0.0035	3.1	2,560.0	0.0035	0.1
Sep-19-2018	5.6	11.1	0.0037	3.1	2,540.0	0.0037	0.1
Sep-20-2018	5.8	11.4	0.0037	3.0	2,520.0	0.0037	0.1
Sep-21-2018	5.8	11.6	0.0035	2.9	2,410.0	0.0035	0.1
Sep-22-2018	5.8	11.6	0.0036	2.8	2,310.0	0.0036	0.1
Sep-23-2018	5.8	11.6	0.0035	2.7	2,230.0	0.0035	0.1
Sep-24-2018	5.9	11.7	0.0035	2.6	2,180.0	0.0035	0.1
Sep-25-2018	6.0	11.9	0.0039	2.5	2,090.0	0.0039	0.1
Sep-26-2018	6.2	12.2	0.0036	2.4	2,030.0	0.0036	0.1
Sep-27-2018	6.3	12.5	0.0037	2.5	2,050.0	0.0037	0.1
Sep-28-2018	6.3	12.4	0.0033	2.3	1,980.0	0.0033	0.1
Sep-29-2018	6.4	12.7	0.0036	2.3	2,020.0	0.0036	0.1
Sep-30-2018	6.3	12.6	0.0033	2.3	2,030.0	0.0033	0.1
Oct-01-2018	6.6	13.0	0.0033	2.3	2,000.0	0.0033	0.1
Oct-02-2018	6.6	13.1	0.0035	2.2	1,880.0	0.0035	0.1
Oct-03-2018	6.9	13.6	0.0032	2.2	1,900.0	0.0032	0.1
Oct-04-2018	7.8	15.4	0.0034	2.3	2,010.0	0.0034	0.1
Oct-05-2018	7.8	15.4	0.0031	2.3	2,020.0	0.0031	0.1
Oct-06-2018	7.6	15.0	0.0034	2.4	2,100.0	0.0034	0.1
Oct-07-2018	7.9	15.7	0.0035	2.4	2,150.0	0.0035	0.2
Oct-08-2018	8.7	17.2	0.0034	2.6	2,150.0	0.0034	0.2
Oct-09-2018	9.2	18.2				0.0034	0.2
Oct-10-2018	9.1	18.1				0.0034	0.2
Oct-11-2018	9.2	18.3				0.0034	0.2
Oct-12-2018	10.2	20.1				0.0034	0.2
Oct-13-2018	10.4	20.6				0.0034	0.2
Oct-14-2018	9.9	19.5				0.0034	0.2
Oct-15-2018	11.3	22.3	0.0032	2.7	2,240.0	0.0032	0.2
Oct-16-2018	12.0	23.7				0.0032	0.2
Oct-17-2018	12.1	23.9				0.0032	0.2
Oct-18-2018	12.1	24.0				0.0032	0.2
Oct-19-2018	12.4	24.6				0.0032	0.2
Oct-20-2018	12.8	25.4				0.0032	0.2
Oct-21-2018	12.4	24.5				0.0032	0.2
Oct-22-2018	12.5	24.8				0.0032	0.2
Oct-23-2018	12.5	24.7	0.0025	2.8	2,330.0	0.0025	0.2
Oct-24-2018	12.8	25.3	0.0025	2.9	2,370.0	0.0025	0.2
Oct-25-2018	12.8	25.5	0.0025	2.7	2,410.0	0.0025	0.2
Oct-26-2018	12.9	25.6	0.0023	2.7	2,320.0	0.0023	0.2
Oct-27-2018	13.0	25.7	0.0023	2.7	2,340.0	0.0023	0.2
Oct-28-2018	12.9	25.6	0.0023	2.7	2,300.0	0.0023	0.2
Oct-29-2018	12.5	24.7	0.0025	2.7	2,260.0	0.0025	0.2
Oct-30-2018	12.7	25.1	0.0020	2.8	2,320.0	0.0020	0.1
Oct-31-2018	13.7	27.1	0.0022	2.9	2,350.0	0.0022	0.2
Nov-01-2018	13.7	27.3	0.0020	2.8	2,370.0	0.0020	0.1
Nov-02-2018	13.7	27.2	0.0020	2.7	2,360.0	0.0020	0.1
Nov-03-2018	13.6	27.1	0.0017	2.8	2,390.0	0.0017	0.1
Nov-04-2018	13.9	27.6	0.0020	2.7	2,410.0	0.0020	0.2
Nov-05-2018	14.2	28.1	0.0021	2.7	2,430.0	0.0021	0.2
Nov-06-2018	14.5	28.8	0.0019			0.0019	0.1
Nov-07-2018	14.7	29.1	0.0019			0.0019	0.1
Nov-08-2018	14.3	28.4	0.0017			0.0017	0.1
Nov-09-2018	15.0	29.7	0.0017			0.0017	0.1
Nov-10-2018	15.0	29.7	0.0016			0.0016	0.1
Nov-11-2018	15.0	29.7	0.0016			0.0016	0.1
Nov-12-2018	15.3	30.3	0.0017			0.0017	0.1
Nov-13-2018	15.5	30.8	0.0017	2.9	2,450.0	0.0017	0.1
Nov-14-2018	15.2	30.2	0.0018	2.8	2,420.0	0.0018	0.1
Nov-15-2018	15.0	29.7	0.0016	2.8	2,420.0	0.0016	0.1
Nov-16-2018	15.0	29.7	0.0016	2.8	2,420.0	0.0016	0.1
Nov-17-2018	15.0	29.7	0.0015	2.7	2,410.0	0.0015	0.1
Nov-18-2018	15.0	29.7	0.0015	2.7	2,450.0	0.0015	0.1
Nov-19-2018	15.0	29.7	0.0016	2.8	2,450.0	0.0016	0.1
Nov-20-2018	16.4	32.6	0.0015	2.8	2,410.0	0.0015	0.1

PARAMETER	Flow (B2)	Discharge (B2)	Total Selenium (B3)	Boron (B3)	Specific Conductance (B2)	Daily Selenium	Selenium Load
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	Estimated	Calculated
UNITS	cfs	ac ft	mg/L	mg/L	microm	mg/L	lbs
Nov-21-2018	17.6	34.9	0.0018	2.7	2,410.0	0.0018	0.2
Nov-22-2018	17.9	35.6	0.0016	2.7	2,410.0	0.0016	0.2
Nov-23-2018	18.1	35.8	0.0014	2.7	2,430.0	0.0014	0.1
Nov-24-2018	19.0	37.7	0.0016	2.7	2,460.0	0.0016	0.2
Nov-25-2018	18.7	37.1	0.0015	2.8	2,510.0	0.0015	0.2
Nov-26-2018	18.0	35.7	0.0016	2.8	2,520.0	0.0016	0.2
Nov-27-2018	18.9	37.5	0.0016	3.0	2,590.0	0.0016	0.2
Nov-28-2018	22.6	44.7	0.0016	3.5	2,890.0	0.0016	0.2
Nov-29-2018	24.2	47.9	0.0015	3.2	2,510.0	0.0015	0.2
Nov-30-2018	61.8	122.6	0.0042	7.2	4,540.0	0.0042	1.4
Dec-01-2018	64.9	128.8	0.0104	16.5	8,840.0	0.0104	3.6
Dec-02-2018	37.0	73.5	0.0108	14.4	7,900.0	0.0108	2.2
Dec-03-2018	29.0	57.6	0.0108	13.1	7,200.0	0.0108	1.7
Dec-04-2018	24.3	48.2	0.0107	8.9	5,680.0	0.0107	1.4
Dec-05-2018	17.0	33.7	0.0098	11.6	6,780.0	0.0098	0.9
Dec-06-2018	13.7	27.2	0.0102	10.8	6,490.0	0.0102	0.8
Dec-07-2018	12.9	25.5	0.0091	8.2	5,340.0	0.0091	0.6
Dec-08-2018	11.3	22.4	0.0064	6.9	4,570.0	0.0064	0.4
Dec-09-2018	10.0	19.8	0.0049	4.8	3,620.0	0.0049	0.3
Dec-10-2018	20.2	40.1	0.0036	3.8	3,050.0	0.0036	0.4
Dec-11-2018	19.8	39.3	0.0028	3.8	2,730.0	0.0028	0.3
Dec-12-2018	21.6	42.9	0.0023	3.6	2,710.0	0.0023	0.3
Dec-13-2018	31.9	63.4	0.0021	3.6	2,730.0	0.0021	0.4
Dec-14-2018	26.4	52.4	0.0021	3.5	2,710.0	0.0021	0.3
Dec-15-2018	17.9	35.4	0.0020	3.5	2,720.0	0.0020	0.2
Dec-16-2018	18.1	35.9	0.0020	3.4	2,670.0	0.0020	0.2
Dec-17-2018	20.2	40.1	0.0021	3.3	2,570.0	0.0021	0.2
Dec-18-2018	42.7	84.7				0.0021	0.5
Dec-19-2018	69.5	137.8				0.0088	3.3
Dec-20-2018	48.0	95.2	0.0088	8.5	4,900.0	0.0088	2.3
Dec-21-2018	28.0	55.5	0.0124	11.8	6,310.0	0.0124	1.9
Dec-22-2018	24.7	49.0	0.0020	3.4	2,580.0	0.0020	0.3
Dec-23-2018	23.4	46.4	0.0131	16.6	8,110.0	0.0131	1.7
Dec-24-2018	23.0	45.6	0.0120	15.1	7,310.0	0.0120	1.5
Dec-25-2018	21.2	42.0	0.0066	6.0	3,810.0	0.0066	0.7
Dec-26-2018	26.8	53.1	0.0048	4.5	3,230.0	0.0048	0.7
Dec-27-2018	44.3	87.8	0.0028	3.8	2,930.0	0.0028	0.7
Dec-28-2018	39.7	78.8	0.0080	8.1	5,180.0	0.0080	1.7
Dec-29-2018	26.3	52.1	0.0227	10.4	6,520.0	0.0227	3.2
Dec-30-2018	21.9	43.4	0.0242	9.5	6,040.0	0.0242	2.9
Dec-31-2018	21.3	42.3	0.0208	8.6	5,650.0	0.0208	2.4

NOTES:

Table 2b. Monthly averages and totals

PARAMETER	Total Flow	Discharge	Average Selenium Concentration	Average Boron	Average Specific Conductance (*)	Average Daily Selenium (*)	Selenium Load (**)	Selenium Load Objective (Dry/Below Normal Year)
DATA SOURCE	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	UA3
UNITS	cfs	acre-feet	mg/L	mg/L	microm	mg/L	lbs	lbs
Jan-18	1,810	1,810	0.0123	8.1	4775	0.0123	74	300
Feb-18	793	793	0.0022	3.5	2756	0.0022	5	185
Mar-18	2,773	2,773	0.0242	12.3	5948	0.0242	168	184
Apr-18	510	510	0.0090	9.8	4319	0.0090	10	193
May-18	750	750	0.0027	4.8	3171	0.0027	6	197
Jun-18	391	391	0.0024	3.7	2863	0.0024	3	130
Jul-18	95	95	0.0025	3.1	2496	0.0025	1	131
Aug-18	70	70	0.0028	3.3	2829	0.0028	1	137
Sep-18	285	285	0.0034	2.9	2370	0.0034	3	235
Oct-18	656	656	0.0029	2.6	2213	0.0030	5	233
Nov-18	1,054	1,054	0.0018	3.0	2525	0.0018	6	233
Dec-18	1,700	1,700	0.0081	7.8	4785	0.0081	38	300
Calendar year Totals/avgs:		10,887	0.0062	5.4	3,421	0.0062	317	2,458

NOTES: * Flow-weighted average concentration

** Selenium load calculated from SLDMWA selenium measurements.

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-04-2018	12.5	7.7	2,434	13.0	4.1	1.2	3.4	
Jan-11-2018	9.7	7.6	7,952	14.3	13.1	17.8 U	18 U	
Jan-18-2018	10.3	7.5	6,253	12.8	6.6	24.7 U	13 U	
Jan-25-2018	12.1	8.1	5,649	12.5	10.5	23.8 U	12 U	
Jan-30-2018	65.5 H	7.8	2,934	12.0	6.4	4.0	4.4	41
Feb-06-2018	10.0	7.9	2,363	15.9	3.4	2.4	3.5	
Feb-13-2018	15.4	8.1	2,443	13.8	2.3	2.1	3.3	
Feb-22-2018	12.9	8.0	2,739	12.7	1.7	1.9	3.8	
Feb-27-2018	11.8	7.9	2,845	11.0	1.8	1.7	3.7	55
Mar-06-2018	14.5	7.9	5,551	14.5	10.6	19.7 U	11	
Mar-15-2018	5.1	7.9	5,357	16.9	3.4	32.5	8.6	
Mar-22-2018								
Mar-29-2018	16.8	8.5	6,425	18.3	11.3	25.0 U	12	28
Apr-03-2018	11.6	8.3	5,740	22.4	10.1	22.1	9.8	
Apr-10-2018	18.8	8.5	4,119	21.8	9.7	9.0	6.4	
Apr-17-2018	15.7	8.3	3,508	18.5	12.3	4.7	5.1	
Apr-24-2018	19.2	8.4	3,143	24.2	16.3	3.6	4.8	47
May-01-2018	19.9	8.1	2,619	20.3	12.6	2.8	3.6	
May-08-2018	20.9	8.1	2,780	23.5	61.2	3.5	3.7	
May-15-2018	16.7	7.8	3,027	23.9	5.2	2.5	3.9	
May-24-2018	2.9	7.9	3,291	23.5	7.8	2.5	4.3	
May-28-2018								
Jun-04-2018								
Jun-15-2018	17.3	8.1	2,791	25.8	3.2	2.4	3.5	
Jun-21-2018	13.0	8.2	2,658	26.3	1.8	2.5	3.2	
Jun-28-2018	14.6	8.4	2,265	27.0	2.6	2.6	2.7	47
Jul-06-2018	11.7	8.2	2,376	27.4	7.7	3.3	2.9	
Jul-13-2018	13.4	8.5	2,422	28.5	3.2	3.9	2.9	
Jul-19-2018	16.0	8.4	2,520	29.2	8.0	3.9	3.1	
Jul-26-2018		8.3	2,442	28.6	6.4	2.9	3.1	43
Aug-02-2018								
Aug-09-2018	13.6	8.4	2,452	27.8	5.3	3.1	3	
Aug-13-2018	15.6	8.3	2,734	26.9	4.7	2.8	3	
Aug-20-2018	15.7	8.5	3,003	27.5	7.7	2.9	3.4	
Aug-27-2018	15.6	8.6	2,671	24.8	10.7	2.9	3.5	59
Sep-05-2018	9.1	8.1	2,444	26.6	11.2	2.5	2.7	
Sep-10-2018	14.6	8.3	2,218	25.5	13.8	3.2	3	
Sep-17-2018	13.9	8.0	2,326	23.4	11.3	2.9	3.2	
Sep-26-2018	12.4	7.7	2,045	22.7	5.5	3.3	2.6	54
Oct-03-2018	10.1	7.9	1,890	22.8	8.0	3.0	2.4	
Oct-10-2018	14.7	7.9	2,173	20.3	4.7	3.5	2.8	
Oct-15-2018	13.2	7.7	2,220	17.8	4.8	3.1	2.9	
Oct-22-2018	14.2	7.6	2,120	18.8	3.7	2.7	2.6	
Oct-29-2018	14.6	7.7	2,273	18.6	4.7	2.6	2.9	47
Nov-05-2018	14.0	7.8	2,275	17.4	3.3	2.2	2.9	
Nov-14-2018	11.6	7.5	2,451	12.1	3.1	1.6	2.7	
Nov-19-2018	15.4	7.6	2,392	11.9	3.1	1.6	2.7	
Nov-26-2018	15.7	7.5	2,459	16.0	2.5	1.5	2.9	45
Dec-03-2018	14.0	7.2	7,325	12.5	8.8	10.6 U	14 U	
Dec-10-2018	13.1	7.5	3,359	11.6	6.6	4.6	5.3	
Dec-17-2018	15.5	9.2	2,513	12.3	8.5	1.9	3.5	42
Dec-27-2018	17.4	8.2	2,858	10.4	14.5	3.7	3.9	

NOTES: Samples only taken when flow is passing site B

PARAMETER	Nutrients	
	Nitrates as N (Dissolved)	Ammonia as N
UNITS	mg/L	mg/L
Jan-30-2018	<0.010	0.12 H
Feb-27-2018	0.012 T	0.07
Mar-29-2018	3.50	0.15
Apr-24-2018	0.01	0.10
May-28-2018		
Jun-28-2018	<0.010	0.07
Jul-26-2018	<0.010 T	0.10
Aug-27-2018	<0.010	0.13
Sep-26-2018	<0.010	0.07
Oct-29-2018	<0.10 V	0.06
Nov-26-2018	<0.010	0.17
Dec-17-2018	<0.010	0.07

NOTES:

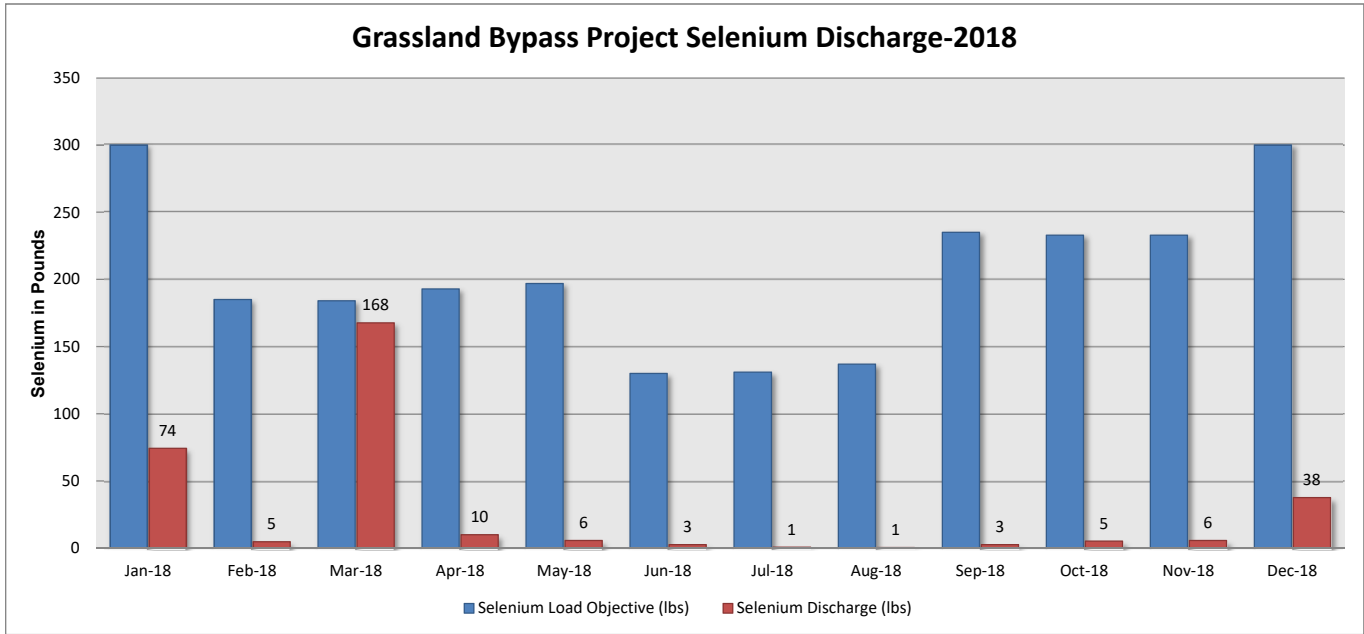
PARAMETER	Pesticides							
	Copper	Carbaryl	Chlorpyrifos	Chlorothalonil	Cyfluthrin	Dimethoate	Flumioxazin	Imidacloprid
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Jan-30-2018	0.96		<0.05				<5.0	
Mar-06-2018		<0.07	<0.015	<0.2	<0.03	<0.10		<1.0
Dec-10-2018								

NOTES: Pesticide results underlined had no detection in the results, value provided is PQL

PARAMETER	Pesticides						
	Lambda-Cyhalothrin	Malathion	Oryzalin	Oxyfluorfen	Permethrin (Total)	Prowl	Trifluralin
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Jan-30-2018				<0.05			
Mar-06-2018	<0.02	<0.10			<0.02	<0.10	<0.05
Dec-10-2018			<0.4	<0.05			<0.05

NOTES: Pesticide results underlined had no detection in the results, value provided is PQL

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-01-2018	86	10.9	1,750
Jan-02-2018	82	11.1	1,830
Jan-03-2018	85	10.9	1,790
Jan-04-2018	107	11.7	1,610
Jan-05-2018	129	12.8	1,510
Jan-06-2018	140	13.7	1,520
Jan-07-2018	155	13.7	1,480
Jan-08-2018	185	13.6	1,410
Jan-09-2018	270	13.6	1,350
Jan-10-2018	333	13.4	1,450
Jan-11-2018	347	13.5	2,960
Jan-12-2018	330	12.7	2,640
Jan-13-2018	317	12.5	2,500
Jan-14-2018	302	12.2	2,650
Jan-15-2018	279	12.0	2,840
Jan-16-2018	259	12.3	2,790
Jan-17-2018	228	12.7	2,600
Jan-18-2018	192	12.9	2,120
Jan-19-2018	176	13.1	2,000
Jan-20-2018	162	11.8	2,050
Jan-21-2018	147	10.9	2,130
Jan-22-2018	139	11.3	2,170
Jan-23-2018	128	11.7	2,200
Jan-24-2018	125	11.5	2,220
Jan-25-2018	129	12.1	2,200
Jan-26-2018	127	11.8	2,160
Jan-27-2018	120	11.8	2,160
Jan-28-2018	118	12.1	2,100
Jan-29-2018	114	12.1	2,110
Jan-30-2018	107	12.5	2,160
Jan-31-2018	103	13.0	2,150
Feb-01-2018	114	13.5	1,970
Feb-02-2018	136	13.9	1,740
Feb-03-2018	134	14.5	1,770
Feb-04-2018	151	15.1	1,640
Feb-05-2018	157	15.2	1,650
Feb-06-2018	154	15.1	1,670
Feb-07-2018	155	14.8	1,660
Feb-08-2018	151	15.3	1,700
Feb-09-2018	149	15.8	1,730
Feb-10-2018	144	15.4	1,770

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Feb-11-2018	145	13.3	1,790
Feb-12-2018	146	12.4	1,770
Feb-13-2018	143	12.2	1,760
Feb-14-2018	140	12.5	1,760
Feb-15-2018	140	12.2	1,780
Feb-16-2018	121	12.1	1,900
Feb-17-2018	117	12.7	1,890
Feb-18-2018	119	13.3	1,850
Feb-19-2018	136	11.3	1,750
Feb-20-2018	118	10.5	1,880
Feb-21-2018	92	11.1	2,180
Feb-22-2018	87	11.2	2,230
Feb-23-2018	90	10.5	2,140
Feb-24-2018	80	10.5	2,350
Feb-25-2018	74	11.9	2,510
Feb-26-2018	74	11.2	2,540
Feb-27-2018	79	11.0	2,450
Feb-28-2018	106	11.0	2,120
Mar-01-2018	147	11.4	2,040
Mar-02-2018	161	12.1	2,070
Mar-03-2018	187	12.4	4,190
Mar-04-2018	208	12.6	4,280
Mar-05-2018	191	12.9	3,990
Mar-06-2018	166	13.9	3,300
Mar-07-2018	162	15.2	3,220
Mar-08-2018	170	16.2	2,880
Mar-09-2018	167	17.1	2,860
Mar-10-2018	158	16.8	2,770
Mar-11-2018	153	16.6	2,560
Mar-12-2018	151	17.8	2,630
Mar-13-2018	154	17.9	2,670
Mar-14-2018	155	16.2	2,630
Mar-15-2018	154	15.3	2,550
Mar-16-2018	149	14.7	2,500
Mar-17-2018	143	13.8	2,350
Mar-18-2018	129	13.4	2,240
Mar-19-2018	124	14.2	2,160
Mar-20-2018	135	14.5	2,100
Mar-21-2018	150	14.8	2,110
Mar-22-2018	176	16.3	2,460
Mar-23-2018	207	16.0	2,610
Mar-24-2018	197	15.7	3,250
Mar-25-2018	193	15.1	2,930

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Mar-26-2018	198	14.3	2,650
Mar-27-2018	189	14.8	2,310
Mar-28-2018	170	16.7	2,140
Mar-29-2018	150	18.8	2,120
Mar-30-2018	144	19.9	2,090
Mar-31-2018	136	20.5	2,120
Apr-01-2018	129	20.8	2,170
Apr-02-2018	124	20.7	2,200
Apr-03-2018	128	20.4	2,130
Apr-04-2018	125	20.6	2,110
Apr-05-2018	115	19.9	2,230
Apr-06-2018	111	18.6	2,210
Apr-07-2018	116	19.0	2,240
Apr-08-2018	111	18.8	2,230
Apr-09-2018	98	19.4	2,230
Apr-10-2018	90	20.8	2,280
Apr-11-2018	82	19.5	2,410
Apr-12-2018	81	17.6	2,370
Apr-13-2018	70	17.1	2,470
Apr-14-2018	65	18.8	2,510
Apr-15-2018	60	20.1	2,650
Apr-16-2018	60	17.2	2,540
Apr-17-2018	58	16.7	2,490
Apr-18-2018	55	16.8	2,540
Apr-19-2018	55	17.1	2,540
Apr-20-2018	50	18.6	2,600
Apr-21-2018	47	20.3	2,550
Apr-22-2018	43	22.0	2,680
Apr-23-2018	43	22.8	3,080
Apr-24-2018	43	23.3	2,950
Apr-25-2018	45	23.4	3,060
Apr-26-2018	53	23.1	3,150
Apr-27-2018	49	22.0	2,720
Apr-28-2018	41	20.2	2,780
Apr-29-2018	42	19.1	2,350
Apr-30-2018	49	19.2	1,820
May-01-2018	50	19.5	1,820
May-02-2018	44	20.3	2,050
May-03-2018	44	20.9	1,920
May-04-2018	47	22.2	2,000
May-05-2018	48	22.6	1,930
May-06-2018	46	22.4	1,930
May-07-2018	43	22.8	2,170

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
May-08-2018	38	23.4	2,260
May-09-2018	38	23.4	2,200
May-10-2018	35	23.3	2,390
May-11-2018	29	21.4	2,970
May-12-2018	31	20.2	2,850
May-13-2018	36	21.4	2,150
May-14-2018	51	22.4	1,580
May-15-2018	50	22.7	1,600
May-16-2018	41	21.8	1,820
May-17-2018	45	22.2	1,730
May-18-2018	46	23.1	1,780
May-19-2018	51	23.6	1,560
May-20-2018	71	22.6	1,460
May-21-2018	57	22.4	1,600
May-22-2018	44	23.0	1,840
May-23-2018	41	23.2	2,020
May-24-2018	56	22.6	1,600
May-25-2018	51	21.3	1,730
May-26-2018	53	21.6	1,710
May-27-2018	51	23.0	1,790
May-28-2018	41	24.7	2,120
May-29-2018	38	26.2	2,190
May-30-2018	40	24.6	2,040
May-31-2018	47	21.8	1,830
Jun-01-2018	55	21.9	1,490
Jun-02-2018	47	23.6	1,650
Jun-03-2018	43	26.1	1,680
Jun-04-2018	32	26.1	2,220
Jun-05-2018	32	24.6	2,200
Jun-06-2018	37	24.2	1,760
Jun-07-2018	38	23.8	1,740
Jun-08-2018	37	23.9	1,750
Jun-09-2018	37	23.5	1,760
Jun-10-2018	63	21.4	1,440
Jun-11-2018	45	22.5	1,650
Jun-12-2018	32	24.8	2,060
Jun-13-2018	30	26.7	2,090
Jun-14-2018	26	26.4	2,390
Jun-15-2018	24	24.6	2,600
Jun-16-2018	24	23.3	2,530
Jun-17-2018	22	23.3	2,590
Jun-18-2018	36	24.2	2,180
Jun-19-2018	26	25.4	2,260

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jun-20-2018	26	25.6	2,230
Jun-21-2018	26	24.8	1,990
Jun-22-2018	19	25.7	2,580
Jun-23-2018	17	26.0	2,860
Jun-24-2018	16	26.8	2,910
Jun-25-2018	15	26.9	2,960
Jun-26-2018	15	27.0	2,980
Jun-27-2018	15	26.7	2,960
Jun-28-2018	13	26.2	3,000
Jun-29-2018	12	25.7	3,080
Jun-30-2018	12	26.0	3,170
Jul-01-2018	11	27.2	3,230
Jul-02-2018	11	26.7	3,290
Jul-03-2018	10	26.0	3,250
Jul-04-2018	11	25.2	3,040
Jul-05-2018	11	26.0	3,020
Jul-06-2018	11	26.9	2,900
Jul-07-2018	12	26.1	2,380
Jul-08-2018	10	26.1	2,820
Jul-09-2018	13	25.6	2,140
Jul-10-2018	13	26.1	1,830
Jul-11-2018	13	26.8	1,690
Jul-12-2018	12	27.6	1,970
Jul-13-2018	11	27.6	1,990
Jul-14-2018	11	28.0	1,980
Jul-15-2018	12	27.6	1,750
Jul-16-2018	12	27.3	1,810
Jul-17-2018	11	27.3	1,850
Jul-18-2018	13	27.4	1,750
Jul-19-2018	12	28.3	1,690
Jul-20-2018	10	28.0	2,060
Jul-21-2018	9	28.3	2,430
Jul-22-2018	8	28.3	2,660
Jul-23-2018	8	28.5	2,750
Jul-24-2018	8	28.6	2,770
Jul-25-2018	8	27.9	2,860
Jul-26-2018	8	28.0	2,800
Jul-27-2018	9	27.9	2,830
Jul-28-2018	8	27.4	2,970
Jul-29-2018	9	27.8	2,950
Jul-30-2018	9	27.4	3,070
Jul-31-2018	9	27.7	3,180
Aug-01-2018	8	27.6	3,250

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Aug-02-2018	8	27.1	3,310
Aug-03-2018	8	26.2	3,350
Aug-04-2018	8	26.2	3,340
Aug-05-2018	9	25.8	3,340
Aug-06-2018	12	24.9	2,640
Aug-07-2018	11	25.4	2,470
Aug-08-2018	10	26.0	2,700
Aug-09-2018	10	26.9	2,940
Aug-10-2018	10	27.3	3,070
Aug-11-2018	10	27.0	3,170
Aug-12-2018	10	26.7	3,270
Aug-13-2018	10	26.3	3,320
Aug-14-2018	10	25.7	3,250
Aug-15-2018	12	25.2	3,290
Aug-16-2018	14	25.6	2,390
Aug-17-2018	14	26.4	2,120
Aug-18-2018	14	26.4	2,120
Aug-19-2018	14	26.0	2,230
Aug-20-2018	14	25.7	2,310
Aug-21-2018	13	25.0	2,360
Aug-22-2018	24	24.9	1,890
Aug-23-2018	30	24.7	1,240
Aug-24-2018	22	24.5	1,510
Aug-25-2018	17	24.0	1,790
Aug-26-2018	21	24.3	1,310
Aug-27-2018	22	24.1	1,260
Aug-28-2018	23	24.4	1,110
Aug-29-2018	24	24.5	1,150
Aug-30-2018	16	24.1	1,340
Aug-31-2018	15	24.2	1,380
Sep-01-2018	16	24.7	1,440
Sep-02-2018	16	25.2	1,730
Sep-03-2018	19	25.3	1,690
Sep-04-2018	29	25.3	1,270
Sep-05-2018	31	25.3	1,200
Sep-06-2018	32	24.6	1,210
Sep-07-2018	22	24.7	1,580
Sep-08-2018	21	24.7	1,630
Sep-09-2018	24	23.9	1,460
Sep-10-2018	23	23.9	1,470
Sep-11-2018	19	23.9	1,630
Sep-12-2018	19	22.9	1,620
Sep-13-2018	20	21.8	1,600

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Sep-14-2018	28	22.0	1,330
Sep-15-2018	25	21.9	1,430
Sep-16-2018	25	21.2	1,510
Sep-17-2018	30	21.6	1,380
Sep-18-2018	30	21.6	1,480
Sep-19-2018	30	21.6	1,520
Sep-20-2018	30	21.4	1,560
Sep-21-2018	36	21.8	1,410
Sep-22-2018	37	22.5	1,530
Sep-23-2018	41	22.7	1,510
Sep-24-2018	44	22.2	1,470
Sep-25-2018	52	22.3	1,360
Sep-26-2018	61	22.6	1,280
Sep-27-2018	74	22.9	1,160
Sep-28-2018	71	23.0	1,200
Sep-29-2018	68	22.2	
Sep-30-2018	81	21.7	
Oct-01-2018	86	22.2	
Oct-02-2018	69	22.5	
Oct-03-2018	62		
Oct-04-2018	61	22.3	1,240
Oct-05-2018	64	21.6	1,230
Oct-06-2018	64	21.0	1,260
Oct-07-2018	77	18.8	1,180
Oct-08-2018	94	18.7	1,110
Oct-09-2018	111	19.4	1,080
Oct-10-2018	119	19.8	1,080
Oct-11-2018	135	19.6	1,060
Oct-12-2018	139	19.6	1,090
Oct-13-2018	127	19.5	1,160
Oct-14-2018	117	19.2	1,210
Oct-15-2018	102	18.1	1,310
Oct-16-2018	102	17.8	1,320
Oct-17-2018	103	18.0	1,310
Oct-18-2018	99	18.3	1,370
Oct-19-2018	98	18.7	1,380
Oct-20-2018	101	18.9	1,380
Oct-21-2018	106	19.1	1,360
Oct-22-2018	113	18.9	1,340
Oct-23-2018	120	18.2	1,330
Oct-24-2018	124	17.8	1,330
Oct-25-2018	124	18.3	1,340
Oct-26-2018	123	18.7	1,370

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Oct-27-2018	129	19.2	1,360
Oct-28-2018	137	19.6	1,350
Oct-29-2018	140	18.4	1,340
Oct-30-2018	142	16.4	1,350
Oct-31-2018	139	15.9	1,370
Nov-01-2018	138	16.4	1,380
Nov-02-2018	134	17.0	1,400
Nov-03-2018	135	17.2	1,410
Nov-04-2018	139	17.3	1,400
Nov-05-2018	143	17.1	1,400
Nov-06-2018	145	16.0	1,400
Nov-07-2018	141	15.4	1,410
Nov-08-2018	138	14.2	1,450
Nov-09-2018	131	13.6	1,490
Nov-10-2018	135	13.1	1,470
Nov-11-2018	139	12.4	1,470
Nov-12-2018	141	12.1	1,480
Nov-13-2018	146	12.0	1,470
Nov-14-2018	146	12.0	1,500
Nov-15-2018	142	11.6	1,520
Nov-16-2018	138	11.4	1,580
Nov-17-2018	140	11.3	1,600
Nov-18-2018	143	11.4	1,630
Nov-19-2018	140	11.3	1,670
Nov-20-2018	145	11.3	1,650
Nov-21-2018	154	11.6	1,600
Nov-22-2018	163	12.8	1,590
Nov-23-2018	174	13.5	1,570
Nov-24-2018	195	14.3	1,540
Nov-25-2018	195	15.0	1,570
Nov-26-2018	190	14.6	1,590
Nov-27-2018	184	14.7	1,620
Nov-28-2018	198	14.6	1,580
Nov-29-2018	244	13.9	1,460
Nov-30-2018	309	13.8	1,480
Dec-01-2018	320	13.0	2,750
Dec-02-2018	293	12.1	2,460
Dec-03-2018	253	11.9	2,420
Dec-04-2018	227	11.8	2,310
Dec-05-2018	208	12.0	2,170
Dec-06-2018	185	12.5	2,110
Dec-07-2018	168	12.3	2,090
Dec-08-2018	153	11.8	2,120

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-09-2018	135	11.8	2,150
Dec-10-2018	127	11.8	2,050
Dec-11-2018	120	11.5	2,030
Dec-12-2018	112	11.3	2,040
Dec-13-2018	109	11.1	2,040
Dec-14-2018	106	11.0	2,110
Dec-15-2018	100	11.0	2,140
Dec-16-2018	98	11.1	2,170
Dec-17-2018	119	12.4	2,070
Dec-18-2018	145	12.6	2,030
Dec-19-2018	169	12.7	2,530
Dec-20-2018	155	13.0	3,810
Dec-21-2018	135	13.2	3,090
Dec-22-2018	125	12.9	3,000
Dec-23-2018	119	12.6	2,950
Dec-24-2018	115	12.2	2,810
Dec-25-2018	111	12.3	2,590
Dec-26-2018	109	11.1	2,500
Dec-27-2018	117	10.2	2,520
Dec-28-2018	108	8.9	2,620
Dec-29-2018	94	8.8	3,320
Dec-30-2018	91	9.0	3,300
Dec-31-2018	89	8.9	3,200

NOTES: USGS data webpage

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

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-18	10,950	12.3	2,084
Feb-18	6,850	12.8	1,927
Mar-18	10,060	15.4	2,670
Apr-18	4,430	19.8	2,476
May-18	2,780	22.5	1,956
Jun-18	1,730	24.9	2,292
Jul-18	640	27.3	2,507
Aug-18	870	25.6	2,394
Sep-18	2,090	23.0	1,452
Oct-18	6,600	19.2	1,272
Nov-18	9,530	13.8	1,513
Dec-18	8,950	11.6	2,500

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-04-2018	12.6	7.7	1,634	12.2	2.0	<0.4	1.5		12
Jan-11-2018	8.1	7.6	3,117	13.8	18.9	4.76 U	5.5 U		15
Jan-18-2018	12.5	7.8	2,084	12.9	25.2	2.64 U	2.5		14
Jan-25-2018	14.9	7.8	2,099	12.1	24.7	2.27 U	2.4		14
Jan-30-2018	12.8	7.7	2,206	11.5	24.8	0.8	2.0	11	14
Feb-06-2018	11.2	8.0	1,603	15.6	24.7	<0.4	1.5		15
Feb-13-2018	14.7	8.1	1,768	12.8	22.7	<0.4	1.6		14 T
Feb-22-2018	13.2	7.9	2,291	12.9	18.1	0.7	2.0		12
Feb-27-2018	12.3	7.7	2,579	10.8	16.1	0.5	2.1	19	12
Mar-06-2018	11.4	7.5	3,257	14.8	27.2	7.04 U	5.1 U		15
Mar-15-2018	7.6	7.9	2,660	16.0	29.2	6.34 U	3.0		13
Mar-22-2018									
Mar-29-2018	14.2	8.0	2,231	18.5	47.4	2.2	2.3	9	16
Apr-03-2018	10.8	7.8	2,217	20.7	44.4	1.5	2.2		16
Apr-10-2018	13.4	7.8	2,251	20.9	49.1	1.0	2.0		19
Apr-17-2018	16.2	8.0	2,465	17.5	42.3	0.9	2.2		18
Apr-24-2018	18.1	8.1	2,684	23.7	33.9	0.7	2.7	19	16
May-01-2018	17.5	7.9	1,774	20.2	75.4	1.2	1.9		8
May-08-2018	15.9	7.8	2,280	22.9	39.1	1.6	2.5		8
May-15-2018	15.8	7.8	1,585	23.4	36.0	1.1	1.4		10
May-24-2018	10.6	7.6	1,553	23.0	47.9	0.9	1.4		11T
May-28-2018									
Jun-04-2018									
Jun-15-2018	15.2	8.0	2,615	25.1	26.8	1.1	2.4		9
Jun-21-2018	12.0	8.0	1,953	24.7	29.6	1.2	1.9		7
Jun-28-2018	10.5	7.9	3,035	26.1	9.4	1.7	3.0	41 U	8
Jul-06-2018	11.5	7.9	3,165	27.1	10.8	1.3	2.5		9
Jul-13-2018	13.4	7.9	1,963	28.3	30.7	0.9	1.7		11
Jul-19-2018	15.8	7.9	1,660	27.3	30.8	0.9	1.4		10
Jul-26-2018		8.1	2,800	28.6	13.9	1.4	2.6	39 U	9
Aug-02-2018									
Aug-09-2018	11.7	8.1	2,945	28.1	18.7	1.6	2.8		9
Aug-13-2018	12.8	8.1	3,366	27.4	12.3	1.5	3.0		8
Aug-20-2018	12.5	8.1	2,288	26.9	11.0	1.0	2.1		7
Aug-27-2018	12.2	8.2	1,289	24.3	30.7	0.7	1.0	16	6
Sep-05-2018	7.7	7.9	1,200	25.9	31.5	0.8	0.9		
Sep-10-2018	11.9	8.1	1,429	25.6	49.6	1.1	1.3		7
Sep-17-2018	11.9	7.4	1,348	21.7	69.4	1.0	1.2		7
Sep-26-2018	11.1	7.5	1,322	21.6	29.6	0.8	1.0	16	12
Oct-03-2018	9.0	7.4	1,256	22.2	19.2	0.7	0.9		17
Oct-10-2018	11.0	7.4	1,104	20.3	32.1	0.5	0.7		11
Oct-15-2018	12.5	7.4	1,336	17.9	24.1	0.6	1.0		14
Oct-22-2018	12.2	7.4	1,378	18.6	18.3	0.6	1.0		13
Oct-29-2018	12.8	7.5	1,382	18.0	16.0	0.5	1.0	10	12
Nov-05-2018	14.5	7.6	1,414	17.7	15.3	0.5	1.1		11
Nov-14-2018	14.7	7.3	1,539	12.1	11.9	0.5	1.1		11
Nov-19-2018	14.6	7.4	1,714	11.4	6.6	0.4	1.2		13
Nov-26-2018	13.8	7.2	1,630	14.4	12.2	0.4	1.3	11	13
Dec-03-2018	13.4	7.0	2,443	12.1	12.1	2.0	3.1		17
Dec-10-2018	12.9	7.3	2,079	11.7	11.5	1.0	2.0		13
Dec-17-2018	14.2	8.7	2,104	12.5	18.4	0.6	1.9	16	13
Dec-27-2018	15.6	7.9	2,452	11.0	11.3	1.3	2.3		11

NOTES:

Nutrients		
PARAMETER	Nitrates as N (Dissolved)	Ammonia as N
UNITS	mg/L	mg/L
Jan-30-2018	0.11	0.26 H
Feb-27-2018	0.11 T	0.19
Mar-22-2018		
Mar-29-2018	0.40	0.18
Apr-24-2018	0.02	0.13
May-28-2018		
Jun-28-2018	0.02	0.12
Jul-26-2018	<0.010 T	0.08
Aug-27-2018	<0.010	0.08
Sep-26-2018	0.02	0.12
Oct-29-2018	0.080 V	0.20
Nov-26-2018	0.06	0.18
Dec-17-2018	0.10	0.27

NOTES:

Pesticides								
PARAMETER	Copper	Carbaryl	Chlorpyrifos	Chlorothalonil	Cyfluthrin	Dimethoate	Flumioxazin	Imidacloprid
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Jan-30-2018	2.2		<0.05				<5.0	
Mar-06-2018		<0.07	<0.015	<0.2	<0.03	<0.10		<1.0
Dec-10-2018								

NOTES: Pesticide results underlined had no detection in the results, value provided is PQL

Pesticides							
PARAMETER	Lambda-Cyhalothrin	Malathion	Oryzalin	Oxyfluorfen	Permethrin (Total)	Prowl	Trifluralin
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Jan-30-2018				<0.05		<0.10	
Mar-06-2018	<0.02	<0.10		<0.05	<0.02		<0.05
Dec-10-2018			<0.4	<0.05			<0.05

NOTES: Pesticide results underlined had no detection in the results, value provided is PQL

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

PARAMETER	Physicals					Total Selenium	Total Boron
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity		
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L
Jan-04-2018	12.0	7.8	1,464	12.4	19.3	<0.4	1.2
Jan-11-2018	10.3	7.8	1,196	14.8	14.4	0.5	1.1
Jan-18-2018	12.5	7.9	1,592	12.9	21.5	<0.4	1.4
Jan-25-2018	14.6	7.9	1,655	12.2	21.8	<0.4	1.5
Jan-30-2018	12.5	7.8	1,954	11.6	20.0	<0.4	1.5
Feb-06-2018	9.8	8.0	1,478	15.7	25.3	<0.4	1.4
Feb-13-2018	13.8	8.2	1,635	13.0	22.5	<0.4	1.4
Feb-22-2018	13.0	7.9	2,069	12.9	19.0	<0.4	1.6
Feb-27-2018	11.9	7.8	2,386	10.7	16.3	<0.4	1.8
Mar-06-2018	11.2	8.0	1,818	15.0	31.2	0.4	1.5
Mar-15-2018	7.5	8.0	2,001	15.8	34.3	0.6	1.7
Mar-22-2018							
Mar-29-2018	10.7	8.2	1,923	18.7	47.9	0.5	1.6
Apr-03-2018	10.7	8.1	1,976	20.5	43.4	0.5	1.8
Apr-10-2018	13.7	8.0	2,021	21.0	50.7	<0.4	1.8
Apr-17-2018	16.0	8.1	2,189	17.0	39.8	0.5	1.8
Apr-24-2018	16.8	8.2	2,235	24.4	40.0	<0.4	1.9
May-01-2018	16.8	7.9	1,142	20.9	113.0	0.7	0.9
May-08-2018	15.7	8.0	1,486	24.3	51.9	0.7	1.1
May-15-2018	15.4	7.8	1,043	24.1	50.1	0.8	0.8
May-24-2018	13.8	7.7	1,160	22.9	50.1	0.6	0.8
May-28-2018							
Jun-04-2018							
Jun-15-2018	16.8	8.2	2,149	25.3	30.9	<0.4	1.8
Jun-21-2018	11.9	8.3	1,521	25.4	28.7	0.7	1.3
Jun-28-2018	17.0	8.4	2,888	28.0	7.8	<0.4	2.1
Jul-06-2018	15.3	8.3	2,702	27.6	6.3	0.5	1.9
Jul-13-2018	15.5	8.2	1,707	29.2	19.0	0.5	1.3
Jul-19-2018	18.8	8.1	1,454	28.5	17.6	0.6	1.1
Jul-26-2018		8.5	2,677	28.0	5.6	<0.4	2.1
Aug-02-2018							
Aug-09-2018	15.0	8.4	3,086	28.5	8.6	<0.4	2.3
Aug-13-2018	17.1	8.5	3,167	27.9	8.4	0.7	2.3
Aug-20-2018	17.0	8.4	2,029	26.9	6.2	<0.4	1.7
Aug-27-2018	14.9	8.5	1,181	24.6	10.3	0.5	0.8
Sep-05-2018	8.1	8.1	896	26.4	47.6	<0.4	0.5
Sep-10-2018	11.6	8.0	1,068	26.2	143.0	<0.4	0.6
Sep-17-2018	11.9	7.8	944	22.7	133.0	<0.4	0.5
Sep-26-2018	10.2	7.4	1,191	21.8	23.8	<0.4	0.7
Oct-03-2018	7.6	7.3	1,145	22.2	22.7	<0.4	0.7
Oct-10-2018	13.3	8.0	991	20.1	27.3	<0.4	0.5
Oct-15-2018	11.1	7.6	1,208	17.8	17.0	<0.4	0.8
Oct-22-2018	11.1	7.3	1,260	18.7	20.7	<0.4	0.8
Oct-29-2018	11.8	7.3	1,271	17.9	15.9	<0.4	0.9
Nov-05-2018	11.4	7.6	1,280	17.5	16.1	<0.4	0.9
Nov-14-2018	14.8	7.3	1,307	12.0	14.1	<0.4	0.8
Nov-19-2018	14.4	7.5	1,550	11.4	7.4	<0.4	0.9
Nov-26-2018	15.1	7.4	1,490	14.4	24.4	<0.4	1.0
Dec-03-2018	15.8	7.4	1,437	11.8	8.1	<0.4	0.9
Dec-10-2018	14.3	7.9	1,708	11.5	8.3	<0.4	1.3
Dec-17-2018							
Dec-27-2018	16.2	7.8	2,176	10.8	8.8	<0.4	1.6

NOTES:

Table 5a. 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-01-2018	151	9.6	1,170
Jan-02-2018	158	9.8	1,150
Jan-03-2018	161	9.8	1,120
Jan-04-2018	158	10.7	1,200
Jan-05-2018	155	11.9	1,250
Jan-06-2018	154	13.0	1,200
Jan-07-2018	156	13.2	1,230
Jan-08-2018	163	13.2	1,220
Jan-09-2018	177	13.3	1,190
Jan-10-2018	199	13.0	1,140
Jan-11-2018	212	13.0	1,080
Jan-12-2018	219	12.3	1,060
Jan-13-2018	222	12.1	1,100
Jan-14-2018	223	11.9	1,150
Jan-15-2018	222	11.7	1,150
Jan-16-2018	220	11.8	1,170
Jan-17-2018	215	12.1	1,240
Jan-18-2018	209	12.4	1,320
Jan-19-2018	206	12.5	1,340
Jan-20-2018	202	11.5	1,400
Jan-21-2018	193	10.5	1,430
Jan-22-2018	187	10.5	1,460
Jan-23-2018	185	10.8	1,430
Jan-24-2018	184	10.7	1,400
Jan-25-2018	183	11.2	1,420
Jan-26-2018	184	10.9	1,430
Jan-27-2018	182	10.7	1,460
Jan-28-2018	174	10.9	1,570
Jan-29-2018	169	11.0	1,550
Jan-30-2018	167	11.4	1,470
Jan-31-2018	165	11.8	1,440
Feb-01-2018	169	12.3	1,350
Feb-02-2018	174	12.7	1,340
Feb-03-2018	168	13.1	1,470
Feb-04-2018	162	13.5	1,560
Feb-05-2018	158	13.7	1,500
Feb-06-2018	156	13.7	1,480
Feb-07-2018	161	13.6	1,420
Feb-08-2018	167	13.8	1,400
Feb-09-2018	170	14.2	1,450
Feb-10-2018	174	14.0	1,450

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Feb-11-2018	175	12.8	1,460
Feb-12-2018	173	12.0	1,490
Feb-13-2018	177	11.5	1,420
Feb-14-2018	183	11.5	1,340
Feb-15-2018	184	11.3	1,370
Feb-16-2018	177	11.2	1,510
Feb-17-2018	170	11.5	1,550
Feb-18-2018	165	12.0	1,600
Feb-19-2018	162	11.1	1,640
Feb-20-2018	157	10.1	1,630
Feb-21-2018	159	10.1	1,630
Feb-22-2018	165	9.9	1,460
Feb-23-2018	170	9.6	1,450
Feb-24-2018	178	9.3	1,370
Feb-25-2018	184	10.1	1,370
Feb-26-2018	186	10.1	1,440
Feb-27-2018	193	10.2	1,400
Feb-28-2018	206	10.1	1,280
Mar-01-2018	218	10.6	1,210
Mar-02-2018	226	11.4	1,230
Mar-03-2018	233	11.8	1,220
Mar-04-2018	239	11.7	1,180
Mar-05-2018	245	11.8	1,160
Mar-06-2018	245	12.6	1,200
Mar-07-2018	240	13.6	1,320
Mar-08-2018	233	14.8	1,430
Mar-09-2018	226	15.9	1,510
Mar-10-2018	220	15.9	1,540
Mar-11-2018	216	15.8	1,540
Mar-12-2018	212	16.6	1,560
Mar-13-2018	212	17.0	1,560
Mar-14-2018	215	15.8	1,560
Mar-15-2018	215	14.8	1,670
Mar-16-2018	218	14.3	1,620
Mar-17-2018	218	13.4	1,610
Mar-18-2018	216	12.8	1,620
Mar-19-2018	213	13.1	1,610
Mar-20-2018	210	13.6	1,570
Mar-21-2018	210	14.3	1,640
Mar-22-2018	225	15.6	1,640
Mar-23-2018	239	15.0	1,580
Mar-24-2018	263	14.9	1,500
Mar-25-2018	281	14.4	1,520

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Mar-26-2018	281	13.9	1,630
Mar-27-2018	276	14.4	1,650
Mar-28-2018	266	15.5	1,630
Mar-29-2018	259	17.0	1,610
Mar-30-2018	254	18.4	1,500
Mar-31-2018	254	19.3	1,490
Apr-01-2018	253	19.8	1,480
Apr-02-2018	252	19.9	1,510
Apr-03-2018	251	19.7	1,500
Apr-04-2018	248	19.6	1,460
Apr-05-2018	248	19.1	1,450
Apr-06-2018	247	18.3	1,490
Apr-07-2018	245	18.2	1,510
Apr-08-2018	244	18.0	1,500
Apr-09-2018	243	18.4	1,460
Apr-10-2018	241	19.4	1,430
Apr-11-2018	239	18.8	1,430
Apr-12-2018	231	17.4	1,530
Apr-13-2018	214	16.5	1,650
Apr-14-2018	196	17.3	1,570
Apr-15-2018	184	18.4	1,510
Apr-16-2018	174	16.9	1,540
Apr-17-2018	172	15.9	1,420
Apr-18-2018	168	15.6	1,370
Apr-19-2018	160	15.8	1,370
Apr-20-2018	158	16.9	1,320
Apr-21-2018	159	18.5	1,240
Apr-22-2018	161	20.3	1,180
Apr-23-2018	161	21.7	1,180
Apr-24-2018	159	22.1	1,120
Apr-25-2018	155	22.0	1,200
Apr-26-2018	148	21.5	1,260
Apr-27-2018	142	20.4	1,270
Apr-28-2018	138	19.1	1,150
Apr-29-2018	137	18.2	1,100
Apr-30-2018	139	17.9	1,040
May-01-2018	147	17.7	981
May-02-2018	154	18.2	988
May-03-2018	156	19.2	1,000
May-04-2018	158	20.3	977
May-05-2018	158	21.1	948
May-06-2018	148	21.1	1,100
May-07-2018	147	21.4	1,060

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
May-08-2018	153	22.0	944
May-09-2018	150	22.4	1,000
May-10-2018	131	22.1	1,220
May-11-2018	115	21.0	1,400
May-12-2018	112	20.0	1,370
May-13-2018	118	20.5	1,150
May-14-2018	122	20.6	1,160
May-15-2018	123	20.8	1,180
May-16-2018	119	20.4	1,170
May-17-2018	114	20.5	1,230
May-18-2018	119	21.5	1,140
May-19-2018	128	22.0	1,090
May-20-2018	131	21.2	1,040
May-21-2018	125	20.4	1,080
May-22-2018	130	20.6	989
May-23-2018	129	21.1	1,060
May-24-2018	119	21.0	1,080
May-25-2018	116	20.3	1,040
May-26-2018	120	19.8	962
May-27-2018	128	20.7	895
May-28-2018	136	22.7	905
May-29-2018	134	24.6	912
May-30-2018	127	23.8	982
May-31-2018	122	20.7	972
Jun-01-2018	121	19.9	958
Jun-02-2018	123	21.9	906
Jun-03-2018	120	24.5	947
Jun-04-2018	121	25.4	922
Jun-05-2018	123	24.1	901
Jun-06-2018	118	22.7	947
Jun-07-2018	116	21.9	862
Jun-08-2018	112	22.1	909
Jun-09-2018	115	22.4	854
Jun-10-2018	114	20.9	888
Jun-11-2018	114	21.4	899
Jun-12-2018	117	23.2	826
Jun-13-2018	119	25.0	822
Jun-14-2018	116	25.5	873
Jun-15-2018	116	23.8	880
Jun-16-2018	117	22.3	864
Jun-17-2018	117	21.3	919
Jun-18-2018	115	22.2	921
Jun-19-2018	120	23.6	850

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jun-20-2018	119	24.7	860
Jun-21-2018	108	24.3	921
Jun-22-2018	99	25.0	894
Jun-23-2018	96	25.7	899
Jun-24-2018	93	26.3	912
Jun-25-2018	97	25.6	860
Jun-26-2018	102	25.4	863
Jun-27-2018	107	25.1	778
Jun-28-2018	111	24.3	769
Jun-29-2018	108	24.1	796
Jun-30-2018	111	24.7	744
Jul-01-2018	114	26.1	749
Jul-02-2018	116	25.9	688
Jul-03-2018	117	25.2	692
Jul-04-2018	111	24.3	729
Jul-05-2018	104	24.5	720
Jul-06-2018	102	25.7	730
Jul-07-2018	99	26.0	757
Jul-08-2018	100	25.8	729
Jul-09-2018	104	25.6	714
Jul-10-2018	109	25.8	679
Jul-11-2018	103	26.3	715
Jul-12-2018	93	27.0	737
Jul-13-2018	94	27.5	718
Jul-14-2018	97	27.7	713
Jul-15-2018	97	27.5	720
Jul-16-2018	97	27.2	763
Jul-17-2018	96	27.1	756
Jul-18-2018	83	27.3	845
Jul-19-2018	75	28.0	975
Jul-20-2018	82	27.6	886
Jul-21-2018	87	27.6	818
Jul-22-2018	83	27.5	851
Jul-23-2018	81	27.6	871
Jul-24-2018	86	27.7	840
Jul-25-2018	93	27.5	796
Jul-26-2018	97	27.5	762
Jul-27-2018	92	27.3	754
Jul-28-2018	86	26.7	820
Jul-29-2018	84	26.9	856
Jul-30-2018	90	26.6	802
Jul-31-2018	99	26.8	755
Aug-01-2018	99	26.8	791

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Aug-02-2018	93	26.4	822
Aug-03-2018	90	25.7	804
Aug-04-2018	86	25.7	813
Aug-05-2018	91	25.3	829
Aug-06-2018	94	24.9	855
Aug-07-2018	101	24.9	825
Aug-08-2018	108	25.0	790
Aug-09-2018	112	25.7	771
Aug-10-2018	114	26.3	756
Aug-11-2018	117	26.3	748
Aug-12-2018	118	26.0	753
Aug-13-2018	122	25.4	747
Aug-14-2018	123	24.8	714
Aug-15-2018	119	24.4	687
Aug-16-2018	111	24.7	730
Aug-17-2018	103	25.4	798
Aug-18-2018	97	25.9	785
Aug-19-2018	102	25.7	768
Aug-20-2018	108	25.2	766
Aug-21-2018	105	24.0	776
Aug-22-2018	93	23.7	853
Aug-23-2018	86	23.9	903
Aug-24-2018	86	23.3	908
Aug-25-2018	95	22.9	856
Aug-26-2018	104	22.9	819
Aug-27-2018	110	22.8	789
Aug-28-2018	111	22.6	765
Aug-29-2018	103	22.8	808
Aug-30-2018	93	22.6	817
Aug-31-2018	87	22.8	869
Sep-01-2018	84	23.4	893
Sep-02-2018	80	24.3	928
Sep-03-2018	79	24.4	886
Sep-04-2018	81	24.4	840
Sep-05-2018	72	24.7	967
Sep-06-2018	72	24.0	940
Sep-07-2018	66	24.0	982
Sep-08-2018	63	24.2	952
Sep-09-2018	58	23.5	1,140
Sep-10-2018	67	23.2	1,070
Sep-11-2018	69	23.2	1,030
Sep-12-2018	68	22.4	1,060
Sep-13-2018	67	21.4	1,040

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Sep-14-2018	62	21.4	1,110
Sep-15-2018	69	21.2	1,100
Sep-16-2018	75	20.3	996
Sep-17-2018	75	20.6	1,020
Sep-18-2018	73	20.8	1,020
Sep-19-2018	69	20.8	1,030
Sep-20-2018	64	20.9	1,100
Sep-21-2018	61	21.3	1,150
Sep-22-2018	68	21.8	1,130
Sep-23-2018	69	22.1	982
Sep-24-2018	70	21.7	932
Sep-25-2018	72	21.6	890
Sep-26-2018	69	21.9	1,010
Sep-27-2018	69	22.4	979
Sep-28-2018	67	22.4	1,000
Sep-29-2018	67	21.5	1,020
Sep-30-2018	71	20.9	1,010
Oct-01-2018	76	21.5	935
Oct-02-2018	79	21.7	912
Oct-03-2018	74	21.6	1,010
Oct-04-2018	74	21.7	1,000
Oct-05-2018	76	20.9	962
Oct-06-2018	71	20.2	1,060
Oct-07-2018	72	18.2	1,140
Oct-08-2018	78	17.8	1,050
Oct-09-2018	84	18.2	981
Oct-10-2018	76	18.7	1,110
Oct-11-2018	67	18.6	1,300
Oct-12-2018	70	18.5	1,220
Oct-13-2018	59	18.7	1,310
Oct-14-2018	62	18.3	1,220
Oct-15-2018	69	17.1	1,140
Oct-16-2018	74	16.6	1,150
Oct-17-2018	78	16.5	1,180
Oct-18-2018	77	16.9	1,210
Oct-19-2018	75	17.4	1,260
Oct-20-2018	74	17.7	1,330
Oct-21-2018	75	17.7	1,300
Oct-22-2018	77	17.5	1,350
Oct-23-2018	80	16.9	1,310
Oct-24-2018	82	16.6	1,300
Oct-25-2018	82	17.1	1,350
Oct-26-2018	80	17.5	1,380

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Oct-27-2018	79	17.8	1,460
Oct-28-2018	79	18.1	1,530
Oct-29-2018	82	17.1	1,490
Oct-30-2018	88	15.5	1,420
Oct-31-2018	94	14.5	1,350
Nov-01-2018	92	14.9	1,340
Nov-02-2018	93	15.5	1,340
Nov-03-2018	95	15.6	1,340
Nov-04-2018	94	15.7	1,330
Nov-05-2018	99	15.5	1,320
Nov-06-2018	106	14.5	1,310
Nov-07-2018	107	13.8	1,320
Nov-08-2018	109	12.9	1,350
Nov-09-2018	113	12.4	1,340
Nov-10-2018	116	11.6	1,310
Nov-11-2018	119	10.8	1,300
Nov-12-2018	125	10.3	1,270
Nov-13-2018	136	10.1	1,170
Nov-14-2018	136	10.2	1,210
Nov-15-2018	134	10.0	1,240
Nov-16-2018	136	9.7	1,240
Nov-17-2018	140	9.6	1,230
Nov-18-2018	144	9.6	1,200
Nov-19-2018	145	9.5	1,190
Nov-20-2018	146	9.5	1,260
Nov-21-2018	146	9.9	1,280
Nov-22-2018	151	11.3	1,290
Nov-23-2018	159	12.1	1,220
Nov-24-2018	166	13.1	1,170
Nov-25-2018	173	13.6	1,090
Nov-26-2018	181	13.3	1,060
Nov-27-2018	186	13.4	1,040
Nov-28-2018	189	13.6	1,030
Nov-29-2018	199	13.4	1,070
Nov-30-2018	211	13.3	1,090
Dec-01-2018	226	12.4	1,050
Dec-02-2018	236	11.6	1,050
Dec-03-2018	239	11.1	1,070
Dec-04-2018	236	10.9	1,120
Dec-05-2018	230	11.0	1,170
Dec-06-2018	223	11.5	1,180
Dec-07-2018	214	11.3	1,220
Dec-08-2018	204	10.9	1,270

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-09-2018	190	10.8	1,390
Dec-10-2018	173	10.9	1,520
Dec-11-2018	155	10.8	1,580
Dec-12-2018	143	10.6	1,610
Dec-13-2018	136	10.4	1,630
Dec-14-2018	129	10.2	1,640
Dec-15-2018	132	10.1	1,600
Dec-16-2018	123	10.1	1,650
Dec-17-2018	130	11.7	1,610
Dec-18-2018	139	11.8	1,630
Dec-19-2018	143	11.4	1,580
Dec-20-2018	138	11.9	1,670
Dec-21-2018	130	12.4	1,730
Dec-22-2018	121	12.3	1,750
Dec-23-2018	122	12.2	1,750
Dec-24-2018	124	11.7	1,750
Dec-25-2018	125	11.9	1,760
Dec-26-2018	125	10.7	1,780
Dec-27-2018	120	9.8	1,820
Dec-28-2018	113	8.5	1,860
Dec-29-2018	113	8.4	1,880
Dec-30-2018	111	8.6	1,910
Dec-31-2018	111	8.5	1,900

NOTES:

USGS data webpage

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

Table 5b. Monthly averages and totals

PARAMETER	Total Flow	Average Temperature	Average Specific Conductance
DATA SOURCE	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm
Jan-18	11,420	11.6	1,288
Feb-18	9,570	11.8	1,458
Mar-18	14,440	14.5	1,494
Apr-18	11,640	18.7	1,375
May-18	8,110	21.0	1,065
Jun-18	6,710	23.6	875
Jul-18	5,900	26.7	772
Aug-18	6,310	24.7	797
Sep-18	4,160	22.4	1,007
Oct-18	4,680	18.2	1,217
Nov-18	8,230	12.3	1,232
Dec-18	9,630	10.9	1,553

NOTES:

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

PARAMETER	Physicals					Total Selenium	Total Boron
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity		
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L
Jan-04-2018	11.7	8.1	1,301	11.9	39.6	<0.4	0.6
Jan-11-2018	10.9	8.1	1,251	13.7	50.2	0.4	0.8
Jan-18-2018	10.2	7.3	1,314	12.6	46.9	<0.4	0.8
Jan-25-2018	9.4	8.4	1,515	11.9	44.3	<0.4	0.7
Jan-30-2018	12.8	8.1	1,510	11.2	32.3	<0.4	0.7
Feb-06-2018	10.1	8.2	1,374	10.1	33.3	<0.4	0.8
Feb-13-2018	14.9	8.3	1,332	12.6	26.9	<0.4	0.6
Feb-22-2018	11.9	8.3	1,339	11.7	26.9	<0.4	0.6
Feb-27-2018	11.9	8.2	1,319	11.1	24.9	<0.4	0.5
Mar-06-2018	14.6	8.2	1,102	14.2	31.2	<0.4	0.6
Mar-15-2018	3.0	8.4	1,558	16.0	32.8	<0.4	0.7
Mar-22-2018							
Mar-29-2018	14.3	7.9	1,536	17.4	22.7	0.4	1.0
Apr-03-2018	10.7	7.9	1,448	20.4	15.5	0.4	0.9
Apr-10-2018	14.3	8.0	1,374	20.1	28.9	0.4	0.9
Apr-17-2018	14.7	8.0	1,566	16.5	35.9	0.4	0.8
Apr-24-2018	15.0	8.0	1,188	23.0	40.4	<0.4	0.5
May-01-2018	16.9	8.0	1,009	19.1	51.3	<0.4	0.4
May-08-2018	14.6	8.2	956	25.1	48.9	<0.4	0.4
May-15-2018	15.2	7.9	1,257	22.0	55.1	<0.4	0.4
May-24-2018	14.9	7.0	1,136	21.8	69.7	<0.4	0.4
May-28-2018							
Jun-04-2018							
Jun-15-2018	13.5	8.0	978	24.6	76.3	<0.4	0.3
Jun-21-2018	8.3	7.8	1,953	25.0	73.9	<0.4	0.4
Jun-28-2018	9.2	7.9	866	24.8	72.8	<0.4	0.3
Jul-06-2018	9.1	7.9	847	26.6	85.6	0.4	0.3
Jul-13-2018	9.7	8.0	823	28.3	88.0	<0.4	0.3
Jul-19-2018	13.6	7.9	1,037	28.3	77.4	0.5	0.4
Jul-26-2018		7.9	782	28.2	85.8	<0.4	0.3
Aug-02-2018							
Aug-09-2018	11.0	8.1	651	26.4	90.3	<0.4	0.2
Aug-13-2018	11.4	8.0	670	26.2	78.2	<0.4	0.2
Aug-20-2018	11.9	8.1	732	26.0	91.0	<0.4	0.2
Aug-27-2018	11.5	8.2	778	23.4	80.3	<0.4	0.2
Sep-05-2018	8.9	8.4	1,056	25.7	48.9	<0.4	0.4
Sep-10-2018	12.7	8.2	1,059	24.6	63.6	<0.4	0.3
Sep-17-2018	13.0	8.1	1,038	21.7	38.0	<0.4	0.3
Sep-26-2018	12.4	7.9	1,002	21.7	40.6	<0.4	0.4
Oct-03-2018	10.6	8.0	1,007	21.8	55.1	<0.4	0.4
Oct-10-2018	12.2	7.6	1,094	18.6	34.3	<0.4	0.5
Oct-15-2018	14.2	8.0	1,106	17.3	56.9	<0.4	0.5
Oct-22-2018	14.7	7.9	1,311	17.8	35.3	<0.4	0.6
Oct-29-2018	15.1	7.9	1,373	17.8	59.2	<0.4	0.8
Nov-05-2018	13.6	8.1	1,250	16.6	53.8	<0.4	0.6
Nov-14-2018	15.3	7.9	1,145	11.1	40.2	<0.4	0.5
Nov-19-2018	17.6	8.2	1,088	10.1	25.9	<0.4	0.5
Nov-26-2018	16.3	8.2	1,077	14.1	35.4	<0.4	0.5
Dec-03-2018	14.8	7.8	1,096	12.1	19.3	<0.4	0.6
Dec-10-2018	12.1	7.3	1,582	11.3	14.9	<0.4	0.9
Dec-17-2018	15.8	9.0	1,612	12.3	23.5	<0.4	0.8
Dec-27-2018	16.3	7.9	1,797	10.6	21.3	<0.4	0.9

NOTES:

Table 6a. Water monitoring in the San Joaquin River above Merced River confluence (Station H2)
USGS Station Code: 11273400

PARAMETER	Flow	Temperature	Specific Conductance	Dissolved Oxygen	pH	Turbidity
DATA SOURCE	USGS	USGS	USGS	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm	mg/L	units	NTU
Jan-01-2018	346	9.8	1,370	10.6	7.8	25.1
Jan-02-2018	352	10.0	1,370	10.4	7.8	29.9
Jan-03-2018	356	9.9	1,380	10.3	7.8	33.0
Jan-04-2018	366	10.9	1,340	10.3	7.8	33.9
Jan-05-2018	377	11.9	1,310	9.8	7.7	40.2
Jan-06-2018	391	12.9	1,310	9.3	7.7	50.4
Jan-07-2018	398	12.9	1,320	9.0	7.7	48.0
Jan-08-2018	431	13.0	1,310	8.8	7.7	46.6
Jan-09-2018	558	13.3	1,260	8.4	7.7	56.1
Jan-10-2018	726	13.1	1,220	8.0	7.7	58.6
Jan-11-2018	872	13.2	1,240	7.8	7.6	52.6
Jan-12-2018	914	12.6	1,700	7.8	7.6	47.1
Jan-13-2018	913	12.3	1,680	7.8	7.6	43.9
Jan-14-2018	904	12.0	1,650	7.9	7.6	39.1
Jan-15-2018	867	11.8	1,680	8.1	7.6	36.9
Jan-16-2018	837	12.0	1,710	8.2	7.7	36.9
Jan-17-2018	802	12.3	1,680	8.2	7.7	40.5
Jan-18-2018	759	12.4	1,620	8.2	7.7	
Jan-19-2018	714	12.7	1,530	8.3	7.7	
Jan-20-2018	682	11.7	1,510	8.7	7.7	42.4
Jan-21-2018	656	11.0	1,530	9.2	7.8	35.9
Jan-22-2018	636	11.2	1,550	9.3	7.8	34.0
Jan-23-2018	616	11.3	1,580	9.4	7.8	36.9
Jan-24-2018	589	11.1	1,580	9.4	7.8	36.3
Jan-25-2018	569	11.5	1,560	9.5	7.8	36.4
Jan-26-2018	567	11.3	1,570	9.6	7.8	35.9
Jan-27-2018	563	11.3	1,570	9.7	7.8	40.5
Jan-28-2018	555	11.5	1,590	9.8	7.8	37.4
Jan-29-2018	542	11.5	1,620	9.8	7.8	33.8
Jan-30-2018	532	11.7	1,610	9.8	7.8	32.0
Jan-31-2018	521	12.2	1,580	9.7	7.8	32.6
Feb-01-2018	511	12.6	1,550	9.7	7.8	33.8
Feb-02-2018	519	13.1	1,470	9.6	7.8	38.6
Feb-03-2018	531	13.5	1,440	9.4	7.7	43.4
Feb-04-2018	529	14.0	1,490	9.4	7.7	41.5
Feb-05-2018	553	14.3	1,470	9.3	7.7	43.4
Feb-06-2018	572	14.4	1,450	9.3	7.7	47.2
Feb-07-2018	575	14.3	1,440	9.4	7.7	43.8
Feb-08-2018	592	14.6	1,410	9.3	7.7	42.0
Feb-09-2018	586	14.9	1,410	9.1	7.7	42.0
Feb-10-2018	584	14.7	1,410	9.1	7.7	42.5
Feb-11-2018	566	13.1	1,430	9.5	7.8	40.6
Feb-12-2018	562	12.7	1,460	9.8	7.8	36.4
Feb-13-2018	555	12.3	1,480	10.1	7.8	29.2
Feb-14-2018	542	12.2	1,460	10.2	7.8	29.7
Feb-15-2018	536	11.8	1,450	10.3	7.8	31.8
Feb-16-2018	519	11.7	1,510	10.5	7.8	28.4
Feb-17-2018	493	12.1	1,600	10.4	7.8	26.7
Feb-18-2018	485	12.6	1,620	10.3	7.8	28.4
Feb-19-2018	505	11.6	1,590	10.4	7.8	28.4
Feb-20-2018	508	10.7	1,580	10.7	7.8	26.0
Feb-21-2018	484	10.8	1,620	10.8	7.8	23.6
Feb-22-2018	452	10.8	1,680	10.8	7.8	22.5
Feb-23-2018	436	10.2	1,600	10.9	7.8	24.6
Feb-24-2018	426	10.1	1,610	11.1	7.8	23.1
Feb-25-2018	419	11.1	1,650	10.9	7.8	25.2
Feb-26-2018	447	10.6	1,570	10.5	7.8	28.7
Feb-27-2018	476	10.4	1,570	10.8	7.8	28.6
Feb-28-2018	503	10.8	1,520	11.0	7.9	
Mar-01-2018	555	11.0	1,430	10.5	7.9	38.9
Mar-02-2018	620	11.4	1,470	10.2	7.8	43.8
Mar-03-2018	676	12.1	1,600	10.1	7.8	44.7
Mar-04-2018	869	12.1	1,730	10.1	7.8	51.6
Mar-05-2018	1,170	11.8	1,400	9.6	7.7	89.3
Mar-06-2018	1,210	12.5	1,390	9.6	7.7	61.6
Mar-07-2018	973	13.8	1,540	9.4	7.7	48.2
Mar-08-2018	811	15.3	1,700	9.3	7.7	42.6
Mar-09-2018	765	16.4	1,750	9.3	7.8	44.9

PARAMETER	Flow	Temperature	Specific Conductance	Dissolved Oxygen	pH	Turbidity
DATA SOURCE	USGS	USGS	USGS	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm	mg/L	units	NTU
Mar-10-2018	727	16.2	1,810	9.0	7.8	44.9
Mar-11-2018	698	16.1	1,810	9.3	7.8	43.3
Mar-12-2018	669	17.4	1,820	9.4	7.8	44.0
Mar-13-2018	649	17.6	1,870	8.8	7.8	45.2
Mar-14-2018	647	16.1	1,860	8.8	7.8	45.0
Mar-15-2018	751	15.5	1,660	10.2	8.0	45.2
Mar-16-2018	948	14.8	1,260	9.6	7.8	47.5
Mar-17-2018	940	14.1	1,330	9.4	7.8	44.0
Mar-18-2018	920	13.6	1,310	10.1	7.9	34.1
Mar-19-2018	995	13.7	1,130	10.4	7.9	37.5
Mar-20-2018	908	13.9	1,180	9.6	7.8	42.1
Mar-21-2018	840	14.2	1,290	9.4	7.8	38.2
Mar-22-2018	862	15.9	1,330	9.3	7.8	39.5
Mar-23-2018	1,060	15.6	1,300	9.4	7.8	43.2
Mar-24-2018	1,390	15.5	674	7.9	7.4	155.0
Mar-25-2018	1,520	14.1	574	7.1	7.2	456.0
Mar-26-2018	1,710	13.4	484	7.6	7.1	338.0
Mar-27-2018	1,630	13.7	588	8.1	7.3	180.0
Mar-28-2018	1,310	15.3	759	8.0	7.4	101.0
Mar-29-2018	913	17.5	891	7.9	7.5	78.3
Mar-30-2018	654	19.1	943	7.9	7.5	65.9
Mar-31-2018	556	20.0	948	7.8	7.6	52.7
Apr-01-2018	948	20.1	1,030	7.9	7.6	42.6
Apr-02-2018	1,090	19.9	1,050	7.9	7.6	39.9
Apr-03-2018	1,070	19.6	1,080	8.1	7.6	39.7
Apr-04-2018	1,140	19.4	1,060	8.2	7.6	38.0
Apr-05-2018	1,460	17.8	924	8.1	7.6	32.8
Apr-06-2018	1,460	16.6	885	7.9	7.6	33.2
Apr-07-2018	1,340	16.6	894	7.9	7.6	31.0
Apr-08-2018	1,070	17.1	1,030	7.9	7.6	38.0
Apr-09-2018	1,220	17.0	896	8.3	7.6	37.4
Apr-10-2018	1,420	17.4	776	8.5	7.6	32.8
Apr-11-2018	1,570	16.8	713	8.6	7.6	32.3
Apr-12-2018	1,590	15.8	744	9.0	7.6	33.7
Apr-13-2018	1,380	15.7	893	9.3	7.7	34.0
Apr-14-2018	1,240	16.4	1,010	9.4	7.7	32.1
Apr-15-2018	761	18.3	1,280	8.6	7.6	
Apr-16-2018	664	17.1	1,300	8.3	7.6	
Apr-17-2018	636	16.4	1,330	8.6	7.6	
Apr-18-2018	539	16.5	1,410	8.7	7.7	
Apr-19-2018	554	16.4	1,420	9.1	7.7	
Apr-20-2018	503	17.4	1,450	9.4	7.7	43.3
Apr-21-2018	484	18.9	1,440	9.4	7.8	44.1
Apr-22-2018	477	20.3	1,400	9.3	7.8	46.6
Apr-23-2018	473	21.5	1,410	9.1	7.8	46.8
Apr-24-2018	449	22.2	1,490	8.5	7.8	47.5
Apr-25-2018	403	22.3	1,520	8.1	7.7	48.8
Apr-26-2018	316	22.4	1,650	7.8	7.7	51.6
Apr-27-2018	284	21.8	1,730	7.9	7.8	53.6
Apr-28-2018	270	20.5	1,690	8.0	7.7	54.6
Apr-29-2018	257	19.3	1,660	8.2	7.7	52.4
Apr-30-2018	269	19.0	1,550	8.7	7.7	53.8
May-01-2018	265	19.3	1,480	8.9	7.8	67.6
May-02-2018	286	20.2	1,410	9.1	7.8	67.7
May-03-2018	399	21.0	1,350	9.0	7.8	62.1
May-04-2018	412	21.7	1,340	9.0	7.8	57.8
May-05-2018	382	22.1	1,360	8.5	7.8	63.5
May-06-2018	274	22.0	1,370	8.4	7.7	81.7
May-07-2018	244	22.4	1,450	8.6	7.8	78.8
May-08-2018	246	23.2	1,430	8.4	7.8	92.6
May-09-2018	345	23.4	1,220	8.3		82.3
May-10-2018	367	23.1	1,240	8.1		
May-11-2018	364	22.3	1,400	8.2		
May-12-2018	339	21.0	1,610	8.5	8.0	49.4
May-13-2018	256	22.2	1,770	8.5	8.0	50.3
May-14-2018	255	22.8	1,470	8.5	8.0	55.0
May-15-2018	268	22.9	1,330	8.3	8.0	53.3
May-16-2018	349	22.3	1,270	8.2	7.9	55.6
May-17-2018	362	22.1	1,250	8.3	7.9	58.1
May-18-2018	281	23.3	1,340	8.4	7.9	49.6

PARAMETER	Flow	Temperature	Specific Conductance	Dissolved Oxygen	pH	Turbidity
DATA SOURCE	USGS	USGS	USGS	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm	mg/L	units	NTU
May-19-2018	267	24.0	1,280	8.3	7.9	51.1
May-20-2018	285	23.3	1,150	8.0	7.8	57.7
May-21-2018	300	23.1	1,080	8.0	7.8	58.7
May-22-2018	281	23.8	1,150	8.0	7.8	52.7
May-23-2018	274	23.8	1,120	7.8	7.8	53.2
May-24-2018	279	23.1	1,160	7.9	7.8	54.9
May-25-2018	283	21.8	1,180	7.7	7.8	51.3
May-26-2018	289	22.0	1,240	8.2	7.8	45.7
May-27-2018	291	23.0	1,220	8.1	7.8	46.2
May-28-2018	294	24.6	1,220	8.0	7.8	52.3
May-29-2018	292	26.1	1,220	7.6	7.8	53.6
May-30-2018	283	25.9	1,220	7.7	7.8	47.4
May-31-2018	281	23.4	1,230	8.1	7.9	48.8
Jun-01-2018	294	22.9	1,220	8.5	7.9	46.3
Jun-02-2018	306	24.3	1,140	8.6	8.0	
Jun-03-2018	303	26.1	1,140	8.4	8.0	
Jun-04-2018	295	26.5	1,170	8.2	8.0	
Jun-05-2018	276	25.0	1,180	8.2	8.1	53.6
Jun-06-2018	285	24.8	1,170	8.1	8.0	54.3
Jun-07-2018	280	24.4	1,140	8.1	8.1	51.4
Jun-08-2018	275	24.4	1,090	8.1	8.0	52.6
Jun-09-2018	264	23.9	1,110	8.2	8.1	54.4
Jun-10-2018	264	21.6	1,090	8.4	8.1	56.7
Jun-11-2018	314	22.6	1,050	8.4	8.1	74.1
Jun-12-2018	295	24.8	1,060	8.2	8.1	60.6
Jun-13-2018	275	26.3	1,050	7.6	8.1	64.3
Jun-14-2018	273	26.8	1,040	7.6	8.0	65.5
Jun-15-2018	254	25.7	1,090	7.8	7.9	60.7
Jun-16-2018	251	24.7	1,120	8.1	8.0	59.8
Jun-17-2018	258	23.6	1,090	8.4	8.0	57.4
Jun-18-2018	267	24.7	1,100	8.4	8.0	62.2
Jun-19-2018	271	25.6	1,090	8.3	8.0	62.8
Jun-20-2018	259	26.0	984	8.1	8.0	60.8
Jun-21-2018	254	25.3	993	8.2	8.0	49.3
Jun-22-2018	240	26.1	1,030	8.3	8.0	42.1
Jun-23-2018	225	26.7	1,040	8.4	8.0	37.6
Jun-24-2018	211	27.4	1,120	8.4	8.0	32.8
Jun-25-2018	209	27.3	1,130	8.5	8.0	
Jun-26-2018	214	27.4	1,080	9.1	8.1	
Jun-27-2018	227	27.1	1,080	10.1	8.3	
Jun-28-2018	224	26.8	1,050	10.1	8.3	
Jun-29-2018	228	26.4	1,000	10.4	8.4	
Jun-30-2018	236	26.6	1,020	9.1	8.2	
Jul-01-2018	230	27.6	984	8.4	8.0	
Jul-02-2018	242	27.5	988	8.2	8.0	
Jul-03-2018	248	27.2	994	8.4	8.0	
Jul-04-2018	248	26.2	966	8.3	8.1	
Jul-05-2018	245	26.3			8.0	
Jul-06-2018	227					
Jul-07-2018	213					
Jul-08-2018	205					
Jul-09-2018	206					
Jul-10-2018	224	27.0	1,020	9.2	8.2	
Jul-11-2018	230					
Jul-12-2018	234					
Jul-13-2018	220					
Jul-14-2018	209	28.5	1,010	8.1	8.3	
Jul-15-2018	205	28.4		8.4	8.3	
Jul-16-2018	210	28.1	1,010	8.5	8.3	
Jul-17-2018	214	28.2	988	8.6	8.4	
Jul-18-2018	207	28.4	987	8.4	8.3	
Jul-19-2018	197	29.2		8.2	8.3	
Jul-20-2018	193	28.8			8.3	
Jul-21-2018	190	28.8			8.4	
Jul-22-2018	186					
Jul-23-2018	175					
Jul-24-2018	175					
Jul-25-2018	182					
Jul-26-2018	190	28.6		7.6	8.3	
Jul-27-2018	192	28.8		7.3	8.1	

PARAMETER	Flow	Temperature	Specific Conductance	Dissolved Oxygen	pH	Turbidity
DATA SOURCE	USGS	USGS	USGS	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm	mg/L	units	NTU
Jul-28-2018	180	28.3		7.4	8.1	
Jul-29-2018	176	28.2		7.4	8.1	
Jul-30-2018	181	27.9		7.4	8.1	
Jul-31-2018	190	28.1		7.4	8.1	
Aug-01-2018	188	28.1		7.3	8.1	
Aug-02-2018	177	27.6	777	7.7	8.1	59.6
Aug-03-2018	171	27.1		7.9	8.1	59.1
Aug-04-2018	160	27.0		8.0	8.2	59.3
Aug-05-2018	157	26.5		8.3	8.2	57.2
Aug-06-2018	158	26.2		8.2	8.2	63.2
Aug-07-2018	163	26.1		8.3	8.2	56.5
Aug-08-2018	176	26.3		8.1	8.1	66.6
Aug-09-2018	187	27.2		7.8	8.0	73.4
Aug-10-2018	194	27.8		7.5	8.0	72.3
Aug-11-2018	200	27.6	747	7.3	7.9	72.8
Aug-12-2018	209	27.3		7.2	7.9	72.8
Aug-13-2018	219	26.9		7.2	7.9	78.3
Aug-14-2018	222	26.2		7.2	7.9	77.0
Aug-15-2018	227	25.6		7.3	7.9	76.5
Aug-16-2018	224	26.0		7.5	7.9	73.2
Aug-17-2018	216	26.7		7.8	8.0	63.2
Aug-18-2018	205	27.0		7.8	8.1	
Aug-19-2018	197	26.7		8.1	8.1	
Aug-20-2018	203	26.5		8.0	8.1	
Aug-21-2018	217	25.8		7.9	8.1	62.4
Aug-22-2018	213	25.3		8.1	8.1	67.7
Aug-23-2018	210	25.2		8.2	8.2	63.2
Aug-24-2018	212	24.7		8.2	8.1	54.7
Aug-25-2018	217	24.5		8.1	8.1	
Aug-26-2018	236	24.6		7.9	8.0	
Aug-27-2018	247	24.6		7.8	8.0	66.0
Aug-28-2018	248	24.7		7.7	8.0	
Aug-29-2018	249	24.5		7.7	7.9	
Aug-30-2018	241	24.2	767	7.9	8.0	58.1
Aug-31-2018	228	24.0	779	8.2	8.0	55.9
Sep-01-2018	219	24.5	779	8.3	8.0	51.2
Sep-02-2018	212	25.1	790	8.3	8.0	
Sep-03-2018	210	25.4	821	8.4	8.1	
Sep-04-2018	210	25.4	836	8.6	8.1	
Sep-05-2018	212	25.4	871	8.5	8.1	
Sep-06-2018	205	24.9	899	8.6	8.2	
Sep-07-2018	198	24.9	928	8.6	8.1	
Sep-08-2018	190	24.8	949	8.5	8.1	
Sep-09-2018	190	24.2	955	8.5	8.1	
Sep-10-2018	170	24.0	980	8.6	8.1	
Sep-11-2018	161	24.2	1,010	8.9	8.3	
Sep-12-2018	198	23.3	982	8.1	8.2	26.9
Sep-13-2018	187	22.2	979	7.9	8.1	21.4
Sep-14-2018	177	22.5	991	8.4	8.0	22.3
Sep-15-2018	181	22.6	995	8.2	8.1	21.0
Sep-16-2018	183	21.8	992	7.9	8.0	19.6
Sep-17-2018	175	21.9	940	8.3		24.0
Sep-18-2018	180	21.9	969	8.2	8.0	25.3
Sep-19-2018	176	21.8	962		8.0	23.7
Sep-20-2018	172	21.7	968		8.0	29.5
Sep-21-2018	179	21.8	997	8.4	8.0	30.5
Sep-22-2018	183	22.5		8.3	8.0	29.7
Sep-23-2018	184	22.7		8.2	8.0	30.8
Sep-24-2018	193	22.2	1,010	8.2	8.0	32.1
Sep-25-2018	197	22.0	993	8.2	8.0	34.1
Sep-26-2018	199	22.4	976	8.2	7.9	37.9
Sep-27-2018	209	22.8	998	7.9	7.9	41.3
Sep-28-2018	205	22.8	994	7.7	7.8	44.3
Sep-29-2018	207	22.1	994	7.6	7.8	39.1
Sep-30-2018	216	22.0	1,010	7.7	7.8	45.1
Oct-01-2018	222	22.3	956	7.5	7.8	42.5
Oct-02-2018	221	22.7	921	7.2	7.7	42.8
Oct-03-2018	207	22.5	942	7.0	7.7	35.7
Oct-04-2018	204	22.1	977	7.3	7.8	36.1
Oct-05-2018	212	21.7	989	7.6	7.7	35.9

PARAMETER	Flow	Temperature	Specific Conductance	Dissolved Oxygen	pH	Turbidity
DATA SOURCE	USGS	USGS	USGS	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm	mg/L	units	NTU
Oct-06-2018	217	21.2	1,000	7.6	7.2	39.6
Oct-07-2018	217	19.1	1,010	8.1	7.1	40.2
Oct-08-2018	215	18.6	1,040	8.3	7.1	40.1
Oct-09-2018	209	19.3	1,020	8.1	7.0	41.2
Oct-10-2018	218	19.8	985	7.8	7.1	45.4
Oct-11-2018	238	19.7	963	7.7	7.1	48.9
Oct-12-2018	248	19.4	977	7.5	7.1	42.9
Oct-13-2018	259	19.2	1,030	7.2	7.0	43.1
Oct-14-2018	255	18.9	1,030	7.2	7.0	36.0
Oct-15-2018	240	17.8	1,040	7.7	6.9	36.1
Oct-16-2018	227	17.4	1,040	7.9	6.9	37.7
Oct-17-2018	218	17.5	1,060	7.9	6.9	38.4
Oct-18-2018	219	17.7	1,050	8.0	6.9	42.9
Oct-19-2018	227	18.0	1,070	7.8	6.9	60.4
Oct-20-2018	252	18.2	1,060	7.8	6.8	74.4
Oct-21-2018	245	18.5	1,080	7.8	6.8	81.5
Oct-22-2018	240	18.2	1,070	7.8	6.9	46.1
Oct-23-2018	201	17.7	1,090	7.9	6.9	45.4
Oct-24-2018	195	17.3	1,100	8.0	6.9	45.3
Oct-25-2018	199	17.7	1,100	7.9	7.1	44.2
Oct-26-2018	199	18.1	1,110	7.9	7.1	45.9
Oct-27-2018	200	18.5	1,160	7.8	7.1	45.2
Oct-28-2018	195	18.9	1,230	7.6	7.1	41.9
Oct-29-2018	201	17.9	1,230	7.7	7.0	38.0
Oct-30-2018	204	16.1	1,240	8.2	7.0	33.6
Oct-31-2018	196	15.4	1,270	8.5	6.9	30.0
Nov-01-2018	196	15.7	1,210	8.5	6.9	28.2
Nov-02-2018	199	16.3	1,220	8.3	7.1	27.3
Nov-03-2018	189	16.4	1,280	8.2	7.2	28.0
Nov-04-2018	184	16.4	1,280	8.2	7.2	29.7
Nov-05-2018	184	16.2	1,260	8.3	7.5	31.8
Nov-06-2018	186	15.1	1,190	8.5	7.5	34.0
Nov-07-2018	194	14.5	1,150	8.7	7.4	35.8
Nov-08-2018	195	13.5	1,180	9.1	7.5	34.5
Nov-09-2018	198	12.8	1,210	9.5	7.5	24.6
Nov-10-2018	207	12.1	1,210	9.6	7.5	27.9
Nov-11-2018	226	11.3	1,200	9.8	7.5	27.9
Nov-12-2018	242	10.9	1,230	10.0	7.5	27.3
Nov-13-2018	256	10.8	1,270	10.1	7.5	27.9
Nov-14-2018	281	10.7	1,280	10.0	7.5	30.8
Nov-15-2018	289	10.3	1,360	10.0	7.5	29.2
Nov-16-2018	296	10.0	1,390	10.2	7.5	21.2
Nov-17-2018	313	10.0	1,400	10.2	7.5	21.6
Nov-18-2018	341	10.0	1,370	10.3	7.5	21.1
Nov-19-2018	351	9.9	1,360	10.2	7.5	22.2
Nov-20-2018	346	9.9	1,390	10.2	7.5	22.3
Nov-21-2018	368	10.2	1,360	10.1	7.4	
Nov-22-2018	409	11.6	1,280	9.5	7.5	46.2
Nov-23-2018	444	12.5	1,200	8.7	7.4	37.7
Nov-24-2018	481	13.3	1,170	8.3	7.4	34.5
Nov-25-2018	523	13.8	1,130	8.0	7.4	31.6
Nov-26-2018	553	13.6	1,100	8.0	7.4	29.5
Nov-27-2018	572	13.7	1,130	7.9	7.3	29.7
Nov-28-2018	598	14.0	1,130	7.6	7.3	30.2
Nov-29-2018	690	13.6	1,140	7.6	7.3	30.8
Nov-30-2018	750	13.4	1,120	7.4	7.8	28.4
Dec-01-2018	838	12.6	1,120	7.4	7.7	28.9
Dec-02-2018	954	11.9	1,290	7.3	7.7	28.0
Dec-03-2018	986	11.5		7.3	7.6	
Dec-04-2018	959	11.1	1,310	7.4	7.7	21.8
Dec-05-2018	869	11.2	1,350	7.6	7.7	21.1
Dec-06-2018	779	11.6	1,290	7.6	7.7	21.2
Dec-07-2018	727	11.4	1,230	7.9	7.8	22.1
Dec-08-2018	677	11.0	1,210	8.1	7.8	23.7
Dec-09-2018	636	11.0	1,230	8.2	7.8	22.8
Dec-10-2018	593	11.1	1,290	8.2	7.8	22.0
Dec-11-2018	537	10.8	1,360	8.4	7.8	20.9
Dec-12-2018	500	10.7	1,380	8.7	7.8	20.1
Dec-13-2018	466	10.4	1,390	9.0	7.8	18.6
Dec-14-2018	436	10.3	1,430	9.0	7.9	18.5

PARAMETER	Flow	Temperature	Specific Conductance	Dissolved Oxygen	pH	Turbidity
DATA SOURCE	USGS	USGS	USGS	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm	mg/L	units	NTU
Dec-15-2018	415	10.2	1,470	9.2	7.9	21.0
Dec-16-2018	409	10.3	1,440	9.2	7.9	23.1
Dec-17-2018	444	11.4	1,410	9.1	7.9	27.7
Dec-18-2018	471	11.5	1,340	8.8	7.8	32.6
Dec-19-2018	534	11.2	1,220	8.9	7.9	33.9
Dec-20-2018	582	11.9	1,240	8.7	7.8	33.4
Dec-21-2018	546	12.2	1,560	8.3	7.8	30.1
Dec-22-2018	494	12.2	1,570	8.4	7.8	28.5
Dec-23-2018	455	11.9	1,610	8.6	7.8	26.4
Dec-24-2018	430	11.6	1,640	8.7	7.8	29.8
Dec-25-2018	422	11.7	1,670	8.8	7.9	27.5
Dec-26-2018	410	10.8	1,660	9.1	7.9	26.6
Dec-27-2018	411	10.0	1,610	9.5	8.0	24.9
Dec-28-2018	411	8.6	1,620	10.2	8.1	20.6
Dec-29-2018	403	8.3	1,640	10.3	8.1	21.0
Dec-30-2018	401	8.3	1,720	10.3	8.0	20.3
Dec-31-2018	389	8.2		10.3	8.0	20.0

NOTES:

USGS data webpage

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

Table 6b. Monthly averages and totals

PARAMETER	Total Flow	Average Temperature	Average Specific Conductance	Average Dissolved Oxygen	Average pH	Average Turbidity
DATA SOURCE	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm	µS/cm	units	NTU
Jan-18	37,510	12	1501	9.1	7.7	39.8
Feb-18	28,690	12	1519	10.1	7.8	33.3
Mar-18	57,410	15	1317	9.1	7.7	80.2
Apr-18	50,260	19	1224	8.5	7.7	41.6
May-18	18,630	23	1308	8.3	7.8	58.6
Jun-18	15,520	25	1089	8.5	8.1	55.2
Jul-18	12,740	28	994	8.1	8.2	N/A
Aug-18	12,640	26	768	7.8	8.0	65.6
Sep-18	11,460	23	949	8.3	8.0	31.5
Oct-18	13,490	19	1059	7.8	7.1	43.8
Nov-18	20,350	13	1240	9.0	7.4	29.4
Dec-18	34,880	11	1424	8.7	7.8	24.6

NOTES:

Table 7. 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-04-2018								
Jan-11-2018								
Jan-18-2018								
Jan-25-2018								
Jan-30-2018								
Feb-06-2018	11.2	8.0	1,341	14.3	49.3		0.9	
Feb-13-2018	13.0	8.1	1,403	11.9	35.8	<0.4	0.8	
Feb-22-2018	14.1	7.9	1,640	11.7	25.7	<0.4	0.9	
Feb-27-2018								
Mar-08-2018	12.4	7.7	1,341	12.7	77.7	1.56 U	1.4	
Mar-15-2018	9.7	7.8	1,769	15.7	53.9	1.57 U	1.2	
Mar-22-2018								
Mar-29-2018	16.1	7.5	631	18.6	99.2	<0.4	0.3	3
Apr-03-2018	8.6	7.4	1,072	19.5	17.9	<0.4	0.5	
Apr-10-2018	12.3	7.3	1,002	19.5	35.2	0.5	0.6	
Apr-17-2018	15.2	7.5	1,519	15.9	46.5	0.5	0.7	
Apr-24-2018	14.8	7.4	1,594	22.3	76.2	<0.4	0.8	7
May-01-2018	16.7	7.6	1,436	18.3	80.4	0.4	0.7	
May-08-2018	15.0	7.5	1,427	22.1	83.8	0.5	0.7	
May-15-2018	15.7	7.6	1,270	22.5	64.0	0.4	0.6	
May-24-2018	11.7	7.9	1,440	22.8	84.8	<0.4	0.6	
May-28-2018								
Jun-04-2018								
Jun-15-2018	13.6	7.7	1,059	24.6	71.8	<0.4	0.5	
Jun-21-2018	9.6	7.8	1,045	23.7	58.1	<0.4	0.5	
Jun-28-2018	10.5	8.1	1,058	25.4	37.1	<0.4	0.4	7
Jul-06-2018	10.5	7.9	920	26.6	45.5	<0.4	0.3	
Jul-13-2018	11.1	7.6	995	27.2	41.4	<0.4	0.2	
Jul-19-2018	13.4	8.0	961	27.5	51.8	<0.4	0.4	
Jul-26-2018		7.9	888	27.1	63.8	<0.4	0.4	6
Aug-02-2018								
Aug-09-2018	10.6	7.8	750	25.6	70.4	<0.4	0.3	
Aug-13-2018	10.7	7.7	688	25.9	80.6	0.5	0.3	
Aug-20-2018	10.9	7.7	813	25.1	64.0	<0.4	0.3	
Aug-27-2018	10.6	7.8	793	23.4	57.4	<0.4	0.3	6
Sep-05-2018								
Sep-10-2018								
Sep-17-2018	12.3	7.6	910	20.9	35.3	<0.4	0.3	
Sep-26-2018	11.7	7.3	946	20.9	45.4	<0.4	0.4	8
Oct-03-2018	10.0	7.2	854	22.2	35.8	<0.4	0.4	
Oct-10-2018	11.1	7.4	912	18.5	32.8	<0.4	0.4	
Oct-15-2018	12.0	7.3	1,055	16.7	25.5	<0.4	0.6	
Oct-22-2018	12.3	7.2	1,163	17.4	34.1	<0.4	0.7	
Oct-29-2018	12.0	7.3	1,228	17.2	32.3	<0.4	0.7	7
Nov-05-2018	12.4	7.2	1,226	15.9	34.5	<0.4	0.7	
Nov-14-2018	13.7	7.3	1,155	10.2	31.6	<0.4	0.6	
Nov-19-2018	15.5	7.4	1,201	9.4	22.3	<0.4	0.6	
Nov-26-2018	13.7	7.4	1,169	13.2	29.2	<0.4	0.6	6
Dec-03-2018	14.2	7.3	1,264	11.6	27.7	0.7	1.1	
Dec-10-2018	13.1	7.4	1,430	11.2	25.8	0.5	1.0	
Dec-17-2018								
Dec-27-2018	13.8	7.7	1,695	10.1	32.8	0.7	1.1	

NOTES:

PARAMETER	Nutrients	
	Nitrates as N (Dissolved)	Ammonia as N
UNITS	mg/L	mg/L
Jan-30-2018		
Feb-27-2018		
Mar-29-2018	0.58	0.21
Apr-24-2018	0.33	0.11
May-28-2018		
Jun-28-2018	0.39	0.08
Jul-26-2018	0.54 T	0.06
Aug-27-2018	0.30 T	0.06
Sep-26-2018	0.02	0.08
Oct-29-2018	0.11 V	0.13
Nov-26-2018	0.47	0.13
Dec-17-2018		

NOTES:

PARAMETER	Pesticides							
	Copper	Carbaryl	Chlorpyrifos	Chlorothalonil	Cyfluthrin	Dimethoate	Flumioxazin	Imidacloprid
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Jan-30-2018	0.65		<0.05				<5.0	
Mar-06-2018		<0.07	<0.015	<0.2	<0.03	<0.10		<1.0
Dec-10-2018								

NOTES: Pesticide results underlined had no detection in the results, value provided is PQL

PARAMETER	Pesticides						
	Lambda-Cyhalothrin	Malathion	Oryzalin	Oxyfluorfen	Permethrin (Total)	Prowl	Trifluralin
UNITS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Jan-30-2018				<0.05		<0.10	
Mar-06-2018	<0.02	<0.10			<0.02		<0.05
Dec-10-2018			<0.4	<0.05			<0.05

NOTES: Pesticide results underlined had no detection in the results, value provided is PQL

**Table 8a. 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-01-2018	296	9.1	961
Jan-02-2018	310	9.4	964
Jan-03-2018	317	9.3	960
Jan-04-2018	319	10.2	940
Jan-05-2018	315	11.2	989
Jan-06-2018	314	12.1	992
Jan-07-2018	309	12.4	994
Jan-08-2018	328	12.6	1,010
Jan-09-2018	372	13.0	965
Jan-10-2018	430	12.8	925
Jan-11-2018	484	12.9	916
Jan-12-2018	513	12.3	1,000
Jan-13-2018	515	12.1	1,040
Jan-14-2018	510	11.9	1,000
Jan-15-2018	500	11.6	1,000
Jan-16-2018	494	11.8	985
Jan-17-2018	481	12.0	986
Jan-18-2018	459	12.1	1,030
Jan-19-2018	442	12.3	1,060
Jan-20-2018	433	11.4	1,070
Jan-21-2018	421	10.8	1,100
Jan-22-2018	412	10.8	1,110
Jan-23-2018	404	10.8	1,120
Jan-24-2018	401	10.6	1,100
Jan-25-2018	397	11.0	1,100
Jan-26-2018	394	10.8	1,130
Jan-27-2018	394	10.8	1,130
Jan-28-2018	388	10.9	1,160
Jan-29-2018	379	11.0	1,190
Jan-30-2018	375	11.2	1,150
Jan-31-2018	374	11.6	1,120
Feb-01-2018	372	12.1	1,120
Feb-02-2018	375	12.5	1,090
Feb-03-2018	377	12.9	1,110
Feb-04-2018	371	13.4	1,170
Feb-05-2018	381	13.7	1,160
Feb-06-2018	375	13.8	1,150
Feb-07-2018	372	13.8	1,140
Feb-08-2018	382	14.1	1,100
Feb-09-2018	385	14.4	1,110
Feb-10-2018	398	14.3	1,120

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Feb-11-2018	393	13.1	1,150
Feb-12-2018	388	12.6	1,170
Feb-13-2018	385	12.1	1,190
Feb-14-2018	388	11.9	1,150
Feb-15-2018	381	11.6	1,130
Feb-16-2018	375	11.4	1,190
Feb-17-2018	375	11.7	1,290
Feb-18-2018	379	12.1	1,330
Feb-19-2018	377	11.2	1,350
Feb-20-2018	379	10.6	1,320
Feb-21-2018	377	10.6	1,310
Feb-22-2018	359	10.4	1,290
Feb-23-2018	359	9.9	1,250
Feb-24-2018	352	9.8	1,270
Feb-25-2018	355	10.5	1,230
Feb-26-2018	384	10.0	1,200
Feb-27-2018	394	10.1	1,260
Feb-28-2018	403	10.4	1,190
Mar-01-2018	420	10.7	1,140
Mar-02-2018	432	11.2	1,150
Mar-03-2018	464	11.7	1,140
Mar-04-2018	695	11.7	858
Mar-05-2018	922	11.2	626
Mar-06-2018	827	12.0	741
Mar-07-2018	627	13.3	887
Mar-08-2018	510	14.7	985
Mar-09-2018	456	15.8	1,070
Mar-10-2018	419	15.8	1,150
Mar-11-2018	403	15.9	1,220
Mar-12-2018	392	17.0	1,280
Mar-13-2018	386	17.1	1,330
Mar-14-2018	390	15.9	1,300
Mar-15-2018	505	15.5	1,150
Mar-16-2018	648	14.6	847
Mar-17-2018	579	14.0	890
Mar-18-2018	595	13.5	860
Mar-19-2018	663	13.3	773
Mar-20-2018	583	13.5	826
Mar-21-2018	522	14.1	912
Mar-22-2018	540	15.6	961
Mar-23-2018	691	15.3	831
Mar-24-2018	1,640	15.0	
Mar-25-2018	2,510	13.5	

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Mar-26-2018	2,400	13.1	
Mar-27-2018	2,020	13.5	
Mar-28-2018	1,610	15.2	
Mar-29-2018	1,320	17.3	
Mar-30-2018	1,130	18.9	
Mar-31-2018	1,020	19.9	792
Apr-01-2018	860	20.2	879
Apr-02-2018	749	20.2	957
Apr-03-2018	676	20.1	1,020
Apr-04-2018	617	20.2	1,080
Apr-05-2018	604	19.5	1,150
Apr-06-2018	656	18.6	1,150
Apr-07-2018	693	18.6	1,150
Apr-08-2018	645	18.3	1,160
Apr-09-2018	669	18.7	1,080
Apr-10-2018	681	19.7	1,080
Apr-11-2018	683	19.3	1,140
Apr-12-2018	676	18.2	1,170
Apr-13-2018	587	17.6	1,270
Apr-14-2018	507	18.3	1,350
Apr-15-2018	422	19.2	1,350
Apr-16-2018	386	17.7	1,320
Apr-17-2018	362	17.2	1,350
Apr-18-2018	344	16.9	1,340
Apr-19-2018	339	16.9	1,330
Apr-20-2018	331	17.9	1,340
Apr-21-2018	329	19.2	1,280
Apr-22-2018	327	20.7	1,240
Apr-23-2018	317	22.0	1,250
Apr-24-2018	315	22.7	1,230
Apr-25-2018	302	22.7	1,240
Apr-26-2018	287	22.6	1,300
Apr-27-2018	272	21.8	1,320
Apr-28-2018	265	20.6	1,290
Apr-29-2018	265	19.4	1,210
Apr-30-2018	272	19.0	1,190
May-01-2018	271	19.2	1,190
May-02-2018	273	19.8	1,080
May-03-2018	275	20.6	1,070
May-04-2018	272	21.4	1,110
May-05-2018	278	21.9	1,080
May-06-2018	280	21.8	1,060
May-07-2018	268	22.1	1,180

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
May-08-2018	283	22.9	1,020
May-09-2018	290	23.1	924
May-10-2018	277	22.9	1,020
May-11-2018	259	22.1	1,180
May-12-2018	240	20.9	1,320
May-13-2018	252	21.9	1,270
May-14-2018	258	22.2	1,110
May-15-2018	254	22.3	1,140
May-16-2018	261	21.8	1,140
May-17-2018	258	21.8	1,150
May-18-2018	250	22.8	1,180
May-19-2018	260	23.4	1,120
May-20-2018	279	22.8	1,040
May-21-2018	282	22.6	994
May-22-2018	276	23.1	1,010
May-23-2018	277	23.1	978
May-24-2018	261	22.6	1,090
May-25-2018	250	21.6	1,120
May-26-2018	248	21.6	1,120
May-27-2018	246	22.5	1,060
May-28-2018	255	24.0	985
May-29-2018	262	25.5	996
May-30-2018	260	25.1	1,010
May-31-2018	261	22.9	1,050
Jun-01-2018	257	22.5	1,040
Jun-02-2018	266	23.9	941
Jun-03-2018	260	25.5	950
Jun-04-2018	255	26.0	957
Jun-05-2018	253	24.9	962
Jun-06-2018	253	24.4	997
Jun-07-2018	254	24.0	970
Jun-08-2018	245	24.0	924
Jun-09-2018	239	23.7	934
Jun-10-2018	244	21.7	908
Jun-11-2018	261	22.5	925
Jun-12-2018	257	24.3	879
Jun-13-2018	257	25.7	823
Jun-14-2018	256	26.2	859
Jun-15-2018	247	25.2	899
Jun-16-2018	248	24.2	890
Jun-17-2018	250	23.4	887
Jun-18-2018	253	24.1	913
Jun-19-2018	254	25.0	885

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Jun-20-2018	254	25.5	836
Jun-21-2018	248	25.0	843
Jun-22-2018	231	25.8	877
Jun-23-2018	219	26.4	896
Jun-24-2018	208	27.0	917
Jun-25-2018	208	27.1	908
Jun-26-2018	210	27.1	854
Jun-27-2018	217	26.8	805
Jun-28-2018	218	26.4	761
Jun-29-2018	216	26.0	765
Jun-30-2018	212	26.2	778
Jul-01-2018	217	27.3	750
Jul-02-2018	220	27.1	752
Jul-03-2018	221	26.6	728
Jul-04-2018	219	25.9	727
Jul-05-2018	214	26.1	752
Jul-06-2018	203	27.0	746
Jul-07-2018	193	26.9	754
Jul-08-2018	186	26.8	763
Jul-09-2018	184	26.5	735
Jul-10-2018	191	26.8	714
Jul-11-2018	192	27.2	675
Jul-12-2018	179	28.0	717
Jul-13-2018	171	28.3	691
Jul-14-2018	170	28.5	678
Jul-15-2018	165	28.5	692
Jul-16-2018	164	28.2	691
Jul-17-2018	166	28.3	728
Jul-18-2018	162	28.4	736
Jul-19-2018	150	29.1	807
Jul-20-2018	149	29.0	821
Jul-21-2018	150	28.9	775
Jul-22-2018	146	28.8	792
Jul-23-2018	142	29.1	811
Jul-24-2018	146	29.0	803
Jul-25-2018	154	28.7	759
Jul-26-2018	161	28.5	726
Jul-27-2018	161	28.6	689
Jul-28-2018	154	28.1	694
Jul-29-2018	151	28.2	737
Jul-30-2018	155	27.9	753
Jul-31-2018	159	28.1	688
Aug-01-2018	159	28.0	661

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Aug-02-2018	154	27.4	725
Aug-03-2018	151	26.7	695
Aug-04-2018	145	26.6	704
Aug-05-2018	146	26.2	692
Aug-06-2018	148	25.7	699
Aug-07-2018	151	25.7	702
Aug-08-2018	159	25.9	665
Aug-09-2018	165	26.7	662
Aug-10-2018	166	27.2	622
Aug-11-2018	168	27.2	605
Aug-12-2018	173	26.9	601
Aug-13-2018	176	26.6	612
Aug-14-2018	182	25.8	595
Aug-15-2018	184	25.4	566
Aug-16-2018	183	25.7	562
Aug-17-2018	175	26.4	618
Aug-18-2018	167	26.7	656
Aug-19-2018	161	26.5	633
Aug-20-2018	168	26.3	650
Aug-21-2018	171	25.5	644
Aug-22-2018	165	25.1	654
Aug-23-2018	158	25.1	699
Aug-24-2018	158	24.6	703
Aug-25-2018	164	24.4	683
Aug-26-2018	173	24.4	660
Aug-27-2018	179	24.3	652
Aug-28-2018	181	24.2	651
Aug-29-2018	177	24.3	660
Aug-30-2018	170	24.2	692
Aug-31-2018	164	24.1	697
Sep-01-2018	159	24.6	707
Sep-02-2018	155	25.2	723
Sep-03-2018	153	25.4	731
Sep-04-2018	154	25.4	701
Sep-05-2018	147	25.6	680
Sep-06-2018	142	25.1	760
Sep-07-2018	137	25.2	750
Sep-08-2018	134	25.2	784
Sep-09-2018	133	24.6	759
Sep-10-2018	132	24.4	850
Sep-11-2018	139	24.3	826
Sep-12-2018	138	23.5	837
Sep-13-2018	137	22.5	842

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Sep-14-2018	134	22.7	826
Sep-15-2018	137	22.6	871
Sep-16-2018	143	21.7	852
Sep-17-2018	144	21.9	829
Sep-18-2018	143	21.9	849
Sep-19-2018	142	21.8	838
Sep-20-2018	140	21.8	841
Sep-21-2018	136	22.3	859
Sep-22-2018	136	22.8	899
Sep-23-2018	138	22.9	858
Sep-24-2018	140	22.6	810
Sep-25-2018	144	22.6	788
Sep-26-2018	146	22.8	784
Sep-27-2018	149	23.2	824
Sep-28-2018	147	23.2	782
Sep-29-2018	145	22.6	818
Sep-30-2018	143	22.4	822
Oct-01-2018	150	22.8	793
Oct-02-2018	154	23.0	772
Oct-03-2018	154	22.6	
Oct-04-2018	156	22.5	801
Oct-05-2018	157	21.9	792
Oct-06-2018	156	21.3	774
Oct-07-2018	154	19.3	820
Oct-08-2018	152	19.0	860
Oct-09-2018	153	19.4	847
Oct-10-2018	155	19.7	845
Oct-11-2018	163	19.6	831
Oct-12-2018	160	19.4	855
Oct-13-2018	150	19.3	864
Oct-14-2018	140	19.0	879
Oct-15-2018	140	17.8	879
Oct-16-2018	141	17.5	897
Oct-17-2018	141	17.5	936
Oct-18-2018	142	17.6	955
Oct-19-2018	144	17.8	987
Oct-20-2018	151	18.1	974
Oct-21-2018	155	18.2	949
Oct-22-2018	157	18.0	945
Oct-23-2018	159	17.5	959
Oct-24-2018	156	17.2	972
Oct-25-2018	160	17.6	950
Oct-26-2018	163	18.0	959

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Oct-27-2018	160	18.3	990
Oct-28-2018	162	18.6	1,020
Oct-29-2018	165	17.6	1,000
Oct-30-2018	166	16.0	1,010
Oct-31-2018	170	15.4	990
Nov-01-2018	176	15.7	954
Nov-02-2018	173	16.1	989
Nov-03-2018	168	16.0	1,040
Nov-04-2018	170	16.0	1,060
Nov-05-2018	177	15.8	1,030
Nov-06-2018	183	14.8	1,020
Nov-07-2018	188	14.2	1,010
Nov-08-2018	184	13.3	1,020
Nov-09-2018	186	12.7	1,050
Nov-10-2018	194	12.0	1,040
Nov-11-2018	204	11.2	1,020
Nov-12-2018	213	10.7	1,000
Nov-13-2018	224	10.6	977
Nov-14-2018	235	10.4	949
Nov-15-2018	226	10.0	986
Nov-16-2018	221	9.8	998
Nov-17-2018	230	9.7	972
Nov-18-2018	245	9.7	932
Nov-19-2018	249	9.5	927
Nov-20-2018	251	9.6	933
Nov-21-2018	259	9.9	950
Nov-22-2018	265	11.3	961
Nov-23-2018	275	12.1	969
Nov-24-2018	289	12.9	951
Nov-25-2018	303	13.5	946
Nov-26-2018	315	13.3	917
Nov-27-2018	322	13.5	907
Nov-28-2018	335	13.7	874
Nov-29-2018	362	13.5	856
Nov-30-2018	416	13.5	853
Dec-01-2018	508	12.7	839
Dec-02-2018	582	12.0	806
Dec-03-2018	571	11.5	845
Dec-04-2018	549	11.1	855
Dec-05-2018	489	11.2	907
Dec-06-2018	448	11.6	937
Dec-07-2018	425	11.4	963
Dec-08-2018	399	11.0	1,000

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-09-2018	370	11.1	1,060
Dec-10-2018	337	11.1	1,170
Dec-11-2018	303	10.9	1,280
Dec-12-2018	284	10.7	1,280
Dec-13-2018	270	10.5	1,280
Dec-14-2018	260	10.2	1,290
Dec-15-2018	256	10.2	1,280
Dec-16-2018	257	10.1	1,230
Dec-17-2018	267	11.2	1,230
Dec-18-2018	288	11.3	1,140
Dec-19-2018	352	11.0	968
Dec-20-2018	367	11.7	928
Dec-21-2018	334	12.0	1,020
Dec-22-2018	303	12.0	1,090
Dec-23-2018	280	11.7	1,120
Dec-24-2018	268	11.5	1,190
Dec-25-2018	261	11.7	1,230
Dec-26-2018	255	10.8	1,270
Dec-27-2018	267	10.0	1,190
Dec-28-2018	265	8.8	1,240
Dec-29-2018	267	8.4	1,160
Dec-30-2018	274	8.2	1,140
Dec-31-2018	271	8.0	1,140

NOTES:

USGS data webpage.

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

Table 8b. Monthly averages and totals

PARAMETER	Total Flow	Average Temperature	Average Specific Conductance
DATA SOURCE	Calculated	Calculated	Calculated
UNITS	acre-feet	°C	µS/cm
Jan-18	24,750	11	1,039
Feb-18	21,010	12	1,198
Mar-18	52,200	15	988
Apr-18	28,640	19	1,207
May-18	16,300	22	1,090
Jun-18	14,380	25	893
Jul-18	10,700	28	738
Aug-18	10,200	26	655
Sep-18	8,460	23	803
Oct-18	9,490	19	904
Nov-18	14,360	13	970
Dec-18	21,080	11	1,099

NOTES:

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

PARAMETER	Physicals					Total Selenium	Total Boron
	Dissolved Oxygen	pH	Specific Conductance	Temperature	Turbidity		
	USBR	USBR	USBR	USBR	USBR		
DATA SOURCE	USBR	USBR	USBR	USBR	USBR	USBR	USBR
UNITS	mg/L	units	µS/cm	°C	NTU	ug/L	mg/L
Jan-04-2018	11.0	7.9	941	10.8	51.6	<0.4	0.4
Jan-11-2018	9.8	7.7	895	13.5	60.0	<0.4	0.5
Jan-18-2018	13.0	8.1	1,037	12.6	58.5	<0.4	0.6
Jan-25-2018	15.7	7.9	1,049	11.1	39.5	<0.4	0.4
Jan-30-2018	13.1	7.7	1,166	10.8	31.6	<0.4	0.5
Feb-06-2018	11.7	8.0	1,073	13.9	37.5	<0.4	0.5
Feb-13-2018	15.1	8.2	1,145	12.3	27.8	<0.4	0.4
Feb-22-2018	13.7	8.1	1,230	11.3	23.2	<0.4	0.5
Feb-27-2018	14.4	7.8	1,241	9.8	28.2	<0.4	0.5
Mar-06-2018	12.2	7.8	724	13.1	60.2	<0.4	0.3
Mar-15-2018	9.5	8.1	1,182	16.3	44.8	<0.4	0.4
Mar-22-2018							
Mar-29-2018	15.5	7.5	633	17.3	101.0	<0.4	0.3
Apr-03-2018	9.8	7.6	1,012	20.1	44.0	<0.4	0.5
Apr-10-2018	12.5	7.6	1,048	20.0	42.4	<0.4	0.6
Apr-17-2018	16.0	7.7	1,393	16.7	47.6	<0.4	0.5
Apr-24-2018	15.4	7.9	1,225	22.2	53.5	<0.4	0.4
May-01-2018	17.2	7.8	1,113	18.7	54.4	<0.4	0.4
May-08-2018	15.1	7.8	1,024	21.6	72.8	<0.4	0.3
May-15-2018	16.6	7.8	1,117	22.4	53.6	<0.4	0.3
May-24-2018	15.9	8.0	1,197	22.2	15.9	<0.4	0.3
May-28-2018							
Jun-04-2018							
Jun-15-2018	13.2	7.7	855	24.4	62.4	<0.4	0.3
Jun-21-2018	8.8	7.8	815	23.6	58.3	<0.4	0.1
Jun-28-2018	10.0	8.0	749	25.2	55.0	<0.4	0.2
Jul-06-2018	10.4	7.9	748	26.4	47.9	<0.4	0.2
Jul-13-2018	10.6	7.8	750	27.4	57.0	<0.4	0.3
Jul-19-2018	13.3	7.7	869	27.7	49.1	<0.4	0.3
Jul-26-2018		7.9	742	27.6	63.4	<0.4	0.3
Aug-02-2018							
Aug-09-2018	10.5	7.8	633	25.5	77.5	<0.4	0.2
Aug-13-2018	11.1	7.7	606	26.3	76.3	0.5	0.2
Aug-20-2018	10.8	7.8	645	25.8	65.3	<0.4	0.2
Aug-27-2018	10.3	7.8	630	23.4	56.9	<0.4	0.2
Sep-05-2018	7.3	7.7	681	24.8	38.2	<0.4	0.2
Sep-10-2018	11.2	7.8	838	24.1	39.2	<0.4	0.2
Sep-17-2018	11.9	7.8	808	20.7	38.1	<0.4	0.2
Sep-26-2018	11.9	7.8	774	21.1	43.0	<0.4	0.2
Oct-03-2018	10.2	7.5	739	22.3	52.8	<0.4	0.2
Oct-10-2018	11.9	7.6	796	19.2	49.2	<0.4	0.3
Oct-15-2018	12.8	7.7	852	16.8	38.0	<0.4	0.3
Oct-22-2018	12.9	7.6	947	17.3	37.5	<0.4	0.4
Oct-29-2018	13.5	7.7	1,004	17.0	74.9	<0.4	0.4
Nov-05-2018	13.0	7.7	1,013	16.1	41.9	<0.4	0.4
Nov-14-2018	14.3	7.4	938	10.3	44.1	<0.4	0.3
Nov-19-2018	15.7	7.6	920	9.7	26.5	<0.4	0.3
Nov-26-2018	14.2	7.4	903	13.0	42.3	<0.4	0.4
Dec-03-2018	15.1	7.3	839	12.0	32.1	<0.4	0.5
Dec-10-2018	12.3	7.4	1,179	11.0	39.3	<0.4	0.6
Dec-17-2018	13.5	8.7	1,213	11.6	39.5	<0.4	0.5
Dec-27-2018	14.1	7.8	1,190	10.3	46.3	<0.4	0.4

NOTES:

Table 9a. Water monitoring in the San Joaquin River at Crows Landing (Station N)
USGS Station Code: 11274550

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Jan-01-2018	670	9.8	907	
Jan-02-2018	674	10.2	925	
Jan-03-2018	672	10.1	936	
Jan-04-2018	684	10.7	953	
Jan-05-2018	689	11.9	964	
Jan-06-2018	706	12.8	972	
Jan-07-2018	720	12.9	974	
Jan-08-2018	749	12.9	980	
Jan-09-2018	849	13.2	965	
Jan-10-2018	961	13.2	950	
Jan-11-2018	1,090	13.3	942	
Jan-12-2018	1,150	12.8	947	
Jan-13-2018	1,180	12.4	965	
Jan-14-2018	1,180	12.2	983	
Jan-15-2018	1,160	11.9	990	
Jan-16-2018	1,130	12.0	1,040	
Jan-17-2018	1,100	12.4	1,050	
Jan-18-2018	1,060	12.5	1,060	
Jan-19-2018	1,020	12.8	1,070	
Jan-20-2018	975	12.0	1,060	
Jan-21-2018	938	11.1	1,030	
Jan-22-2018	910	11.3	1,010	
Jan-23-2018	887	11.6	1,030	
Jan-24-2018	858	11.4	1,020	
Jan-25-2018	837	11.5	1,030	
Jan-26-2018	823	11.4	1,040	
Jan-27-2018	817	11.5	1,050	
Jan-28-2018	810	11.6	1,050	
Jan-29-2018	799	11.7	1,040	
Jan-30-2018	784	11.7	1,030	
Jan-31-2018	769	12.1	1,010	
Feb-01-2018	760	12.6	1,010	
Feb-02-2018	757	13.0	1,010	
Feb-03-2018	769	13.4	1,020	
Feb-04-2018	770	13.9	1,030	
Feb-05-2018	779	14.1	1,050	
Feb-06-2018	802	14.2	1,070	
Feb-07-2018	791	14.2	1,100	
Feb-08-2018	803	14.5	1,170	
Feb-09-2018	812	14.8	1,160	
Feb-10-2018	809	14.8	1,170	
Feb-11-2018	807	13.3	1,170	
Feb-12-2018	792	12.7	1,190	
Feb-13-2018	785	12.4	1,190	
Feb-14-2018	770	12.3	1,220	
Feb-15-2018	762	12.1	1,220	
Feb-16-2018	749	11.8	1,200	
Feb-17-2018	730	12.1	1,260	

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Feb-18-2018	727	12.7	1,310	
Feb-19-2018	730	12.0	1,300	
Feb-20-2018	740	11.0	1,270	
Feb-21-2018	731	10.9	1,270	
Feb-22-2018	704	10.9	1,270	
Feb-23-2018	681	10.5	1,310	
Feb-24-2018	667	10.3	1,290	
Feb-25-2018	666	11.2	1,310	
Feb-26-2018	677	11.2	1,320	
Feb-27-2018	715	10.5	1,240	
Feb-28-2018	735	10.8	1,250	
Mar-01-2018	821	11.4	1,150	
Mar-02-2018	909	11.3	1,090	
Mar-03-2018	946	12.0	1,150	
Mar-04-2018	1,070	12.2	1,290	
Mar-05-2018	1,360	12.2	1,240	
Mar-06-2018	1,500	12.5	1,140	
Mar-07-2018	1,340	13.7	1,140	
Mar-08-2018	1,150	15.2	1,170	1.3
Mar-09-2018	1,070	16.3	1,270	1.3
Mar-10-2018	1,020	16.3	1,290	1.3
Mar-11-2018	995	15.9	1,340	1.2
Mar-12-2018	975	17.1	1,330	1.2
Mar-13-2018	951	17.7	1,340	1.0
Mar-14-2018	950	16.4	1,370	1.0
Mar-15-2018	997	15.4	1,350	1.3
Mar-16-2018	1,190	15.2	1,160	1.1
Mar-17-2018	1,300	14.2	972	1.1
Mar-18-2018	1,270	13.7	989	0.8
Mar-19-2018	1,350	13.8	913	0.6
Mar-20-2018	1,310	14.2	854	0.6
Mar-21-2018	1,230	14.1	886	0.4
Mar-22-2018	1,230	15.8	947	
Mar-23-2018	1,560	15.8	966	0.5
Mar-24-2018	3,230	14.9	663	0.5
Mar-25-2018	3,530	14.6	490	0.5
Mar-26-2018	3,790	13.8	422	0.5
Mar-27-2018	3,820	13.8	453	0.5
Mar-28-2018	3,580	15.2	561	0.5
Mar-29-2018	3,070	17.0	672	0.4
Mar-30-2018	2,590	18.5	743	0.6
Mar-31-2018	2,330	19.5	788	0.4
Apr-01-2018	2,680	19.4	681	0.4
Apr-02-2018	3,070	18.2	539	<0.4
Apr-03-2018	3,100	17.5	520	<0.4
Apr-04-2018	3,080	17.1	511	<0.4
Apr-05-2018	3,680	15.8	482	<0.4
Apr-06-2018	4,200	14.8	411	<0.4
Apr-07-2018	4,480	14.6	379	<0.4
Apr-08-2018	4,200	15.2	394	<0.4
Apr-09-2018	4,150	15.5	394	<0.4

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Apr-10-2018	4,480	15.6	362	<0.4
Apr-11-2018	4,720	15.4	345	<0.4
Apr-12-2018	4,810	14.5	321	<0.4
Apr-13-2018	4,510	14.2	328	<0.4
Apr-14-2018	4,080	14.6	342	<0.4
Apr-15-2018	3,260	16.2	437	<0.4
Apr-16-2018	2,700	16.1	462	<0.4
Apr-17-2018	2,430	15.1	464	<0.4
Apr-18-2018	2,100	14.7	528	<0.4
Apr-19-2018	1,940	14.8	547	<0.4
Apr-20-2018	1,830	15.5	542	<0.4
Apr-21-2018	1,730	16.8	550	<0.4
Apr-22-2018	1,670	18.0	557	<0.4
Apr-23-2018	1,640	19.1	547	<0.4
Apr-24-2018	1,560	19.8	568	<0.4
Apr-25-2018	1,470	19.9	583	<0.4
Apr-26-2018	1,310	20.0	629	<0.4
Apr-27-2018	1,200	19.9	713	<0.4
Apr-28-2018	1,130	19.1	744	<0.4
Apr-29-2018	1,090	18.1	749	<0.4
Apr-30-2018	1,080	17.9	734	<0.4
May-01-2018	1,040	18.4	747	<0.4
May-02-2018	1,000	19.3	781	<0.4
May-03-2018	1,150	20.1	661	<0.4
May-04-2018	1,200	20.2	575	<0.4
May-05-2018	1,170	20.4	575	<0.4
May-06-2018	1,000	20.4	687	<0.4
May-07-2018	903	21.0	787	<0.4
May-08-2018	845	21.9	890	<0.4
May-09-2018	967	22.4	762	<0.4
May-10-2018	1,020	21.9	625	<0.4
May-11-2018	1,020	21.1	628	<0.4
May-12-2018	997	20.0	653	<0.4
May-13-2018	852	20.9	816	<0.4
May-14-2018	779	21.7	916	<0.4
May-15-2018	758	22.0	897	<0.4
May-16-2018	848	21.8	807	<0.4
May-17-2018	917	21.2	741	<0.4
May-18-2018	786	21.9	826	<0.4
May-19-2018	703	22.8	958	<0.4
May-20-2018	704	22.6	932	<0.4
May-21-2018	724	22.6	899	<0.4
May-22-2018	686	23.3	931	<0.4
May-23-2018	637	23.5	987	<0.4
May-24-2018	633	22.9	971	<0.4
May-25-2018	650	21.8	972	<0.4
May-26-2018	645	21.5	967	<0.4
May-27-2018	641	22.7	949	<0.4
May-28-2018	620	24.2	962	<0.4
May-29-2018	594	25.7	975	<0.4
May-30-2018	553	25.9	1,020	<0.4

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
May-31-2018	542	24.0	1,040	<0.4
Jun-01-2018	547	22.7	1,040	<0.4
Jun-02-2018	541	23.8	1,070	<0.4
Jun-03-2018	558	25.5	1,020	<0.4
Jun-04-2018	562	26.1	975	0.4
Jun-05-2018	502	24.8	984	<0.4
Jun-06-2018	511	24.1	1,010	<0.4
Jun-07-2018	491	24.0		<0.4
Jun-08-2018	489	23.8	1,010	<0.4
Jun-09-2018	447	23.5	1,040	<0.4
Jun-10-2018	478	21.3	1,020	<0.4
Jun-11-2018	496	21.9	948	<0.4
Jun-12-2018	502	23.9	931	0.5
Jun-13-2018	464	25.7	966	<0.4
Jun-14-2018	460	26.5	949	
Jun-15-2018	456	26.0	916	<0.4
Jun-16-2018	444	25.0	973	0.4
Jun-17-2018	470	23.6	949	<0.4
Jun-18-2018	473	24.1	894	0.5
Jun-19-2018	449	25.0	982	0.5
Jun-20-2018	424	25.6	1,040	
Jun-21-2018	440	24.8	954	<0.4
Jun-22-2018	410	25.4	996	<0.4
Jun-23-2018	390	26.1	1,020	<0.4
Jun-24-2018	377	26.6	991	<0.4
Jun-25-2018	379	26.4	995	0.4
Jun-26-2018	364	26.4	1,030	<0.4
Jun-27-2018	376	26.1	1,010	0.4
Jun-28-2018	370	26.0	1,030	<0.4
Jun-29-2018	356	25.9	1,050	0.4
Jun-30-2018	385	26.1	961	<0.4
Jul-01-2018	386	26.9	932	<0.4
Jul-02-2018	401	26.5	927	<0.4
Jul-03-2018	373	26.7	903	<0.4
Jul-04-2018	376	26.5	918	<0.4
Jul-05-2018	406	25.6	918	<0.4
Jul-06-2018	364	26.3	869	<0.4
Jul-07-2018	318	26.3	924	<0.4
Jul-08-2018	327	25.9	992	<0.4
Jul-09-2018	318	25.7	1,020	<0.4
Jul-10-2018	301	26.0	1,010	<0.4
Jul-11-2018	325	26.4	995	<0.4
Jul-12-2018	324	27.1	931	<0.4
Jul-13-2018	325	27.3	935	<0.4
Jul-14-2018	310	27.4	988	<0.4
Jul-15-2018	315	27.4	1,030	
Jul-16-2018	315	27.2	972	
Jul-17-2018	333	27.2	924	
Jul-18-2018	319	27.3	898	
Jul-19-2018	299	28.1	962	<0.4
Jul-20-2018	281	27.9	1,030	0.4

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Jul-21-2018	282	27.5	1,060	<0.4
Jul-22-2018	324	27.2	980	<0.4
Jul-23-2018	288	27.5	949	<0.4
Jul-24-2018	262	27.8	1,020	<0.4
Jul-25-2018	271	27.5	1,030	0.4
Jul-26-2018	287	27.5	1,010	<0.4
Jul-27-2018	278	27.6	1,010	<0.4
Jul-28-2018	294	27.1	985	<0.4
Jul-29-2018	304	26.8	942	0.4
Jul-30-2018	300	26.3	901	<0.4
Jul-31-2018	295	26.6	884	<0.4
Aug-01-2018	294	26.8	907	<0.4
Aug-02-2018	268	26.3	936	<0.4
Aug-03-2018	240	25.7	960	<0.4
Aug-04-2018	236	25.9	1,030	<0.4
Aug-05-2018	254	25.5	1,040	<0.4
Aug-06-2018	256	25.1	992	<0.4
Aug-07-2018	254	24.7	964	<0.4
Aug-08-2018	269	25.0	961	0.5
Aug-09-2018	292	25.6	940	<0.4
Aug-10-2018	296	26.4	907	0.4
Aug-11-2018	309	26.5	910	0.4
Aug-12-2018	325	26.1	886	0.4
Aug-13-2018	340	26.1	852	0.4
Aug-14-2018	312	25.6	816	0.4
Aug-15-2018	306	25.0	841	0.4
Aug-16-2018	320	24.7	837	0.5
Aug-17-2018	328	25.3	810	<0.4
Aug-18-2018	337	25.6	813	<0.4
Aug-19-2018	328	25.5	834	<0.4
Aug-20-2018	296	25.4	882	0.5
Aug-21-2018	289	24.9	930	0.5
Aug-22-2018	288	24.4	959	0.5
Aug-23-2018	313	24.1	963	0.4
Aug-24-2018	329	23.6	937	<0.4
Aug-25-2018	356	23.6	910	0.4
Aug-26-2018	357	23.7	901	0.4
Aug-27-2018	366	24.0	890	<0.4
Aug-28-2018	358	24.2	870	0.4
Aug-29-2018	347	24.0	890	<0.4
Aug-30-2018	345	23.7	908	<0.4
Aug-31-2018	364	23.3	877	<0.4
Sep-01-2018	361	23.6	858	<0.4
Sep-02-2018	325	24.4	855	<0.4
Sep-03-2018	322	24.7	892	<0.4
Sep-04-2018	312	24.7	905	<0.4
Sep-05-2018	311	24.6	926	<0.4
Sep-06-2018	304	24.1	956	<0.4
Sep-07-2018	303	24.1	982	0.5
Sep-08-2018	333	24.0	972	<0.4
Sep-09-2018	316	23.5	926	<0.4

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Sep-10-2018	331	23.3	954	<0.4
Sep-11-2018	366	23.5	895	0.4
Sep-12-2018	492	22.5	700	<0.4
Sep-13-2018	609	20.6	555	<0.4
Sep-14-2018	641	20.1	488	<0.4
Sep-15-2018	661	20.0	451	<0.4
Sep-16-2018	718	19.4	437	<0.4
Sep-17-2018	748	19.5	433	<0.4
Sep-18-2018	754	19.5	413	<0.4
Sep-19-2018	777	19.5	419	<0.4
Sep-20-2018	767	19.6	431	<0.4
Sep-21-2018	777	19.7	435	<0.4
Sep-22-2018	802	20.1	437	<0.4
Sep-23-2018	801	20.3	433	<0.4
Sep-24-2018	813	20.2	438	<0.4
Sep-25-2018	806	20.0	440	<0.4
Sep-26-2018	772	20.1	451	<0.4
Sep-27-2018	704	20.6	481	<0.4
Sep-28-2018	627	21.0	495	<0.4
Sep-29-2018	556	20.9	475	<0.4
Sep-30-2018	511	20.9	476	<0.4
Oct-01-2018	489	21.5	479	<0.4
Oct-02-2018	486	22.0	482	<0.4
Oct-03-2018	478	22.3	486	<0.4
Oct-04-2018	469	21.6	489	<0.4
Oct-05-2018	482	21.1	491	<0.4
Oct-06-2018	496	20.9	495	<0.4
Oct-07-2018	513	19.2	507	<0.4
Oct-08-2018	509	18.4	506	<0.4
Oct-09-2018	487	18.9	508	<0.4
Oct-10-2018	499	19.5	510	<0.4
Oct-11-2018	508	19.5	512	<0.4
Oct-12-2018	519	19.2	513	<0.4
Oct-13-2018	545	18.9	514	<0.4
Oct-14-2018	551	18.6	516	<0.4
Oct-15-2018	526	17.6	516	<0.4
Oct-16-2018	502	17.2	517	<0.4
Oct-17-2018	497	17.3	518	<0.4
Oct-18-2018	486	17.4	520	0.471 L
Oct-19-2018	499	17.6	521	<0.4 L
Oct-20-2018	689	17.4	519	<0.4 L
Oct-21-2018	851	16.9	463	<0.4 L
Oct-22-2018	791	16.9	459	<0.4 L
Oct-23-2018	709	16.8	460	<0.4 L
Oct-24-2018	608	16.6	461	<0.4 L
Oct-25-2018	580	17.1	462	<0.4 L
Oct-26-2018	566	17.5	463	<0.4 L
Oct-27-2018	555	17.9	465	<0.4 L
Oct-28-2018	566	18.2	466	<0.4
Oct-29-2018	568	17.6	467	<0.4
Oct-30-2018	578	16.1	467	<0.4

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Oct-31-2018	563	15.3	468	<0.4
Nov-01-2018	569	15.5	469	<0.4
Nov-02-2018	604	16.1	470	<0.4
Nov-03-2018	592	16.3	471	<0.4
Nov-04-2018	564	16.1	472	<0.4
Nov-05-2018	564	16.0	472	<0.4
Nov-06-2018	554	15.1	475	<0.4
Nov-07-2018	554	14.4	481	<0.4
Nov-08-2018	553	13.6	491	<0.4
Nov-09-2018	542	12.9	499	<0.4
Nov-10-2018	548	12.3	507	<0.4
Nov-11-2018	564	11.5	514	<0.4
Nov-12-2018	572	11.1	516	<0.4
Nov-13-2018	582	11.0	519	<0.4
Nov-14-2018	595	10.9	523	<0.4
Nov-15-2018	608	10.6	528	<0.4
Nov-16-2018	599	10.1	528	<0.4
Nov-17-2018	602	10.1	531	<0.4
Nov-18-2018	620	10.1	536	<0.4
Nov-19-2018	635	10.0	541	<0.4
Nov-20-2018	621	9.9	539	0.4
Nov-21-2018	621	10.3	540	0.5
Nov-22-2018	652	11.4	546	<0.4
Nov-23-2018	682	12.5	555	<0.4
Nov-24-2018	709	13.1	560	<0.4
Nov-25-2018	735	13.5	566	0.5
Nov-26-2018	760	13.5	570	<0.4
Nov-27-2018	773	13.5	573	<0.4
Nov-28-2018	796	13.8	577	<0.4
Nov-29-2018	854	13.6	588	<0.4
Nov-30-2018	914	13.4	610	<0.4
Dec-01-2018	986	12.9	651	0.4
Dec-02-2018	1,080	12.1	674	<0.4
Dec-03-2018	1,130	11.7	687	0.6
Dec-04-2018	1,130	11.3	698	0.6
Dec-05-2018	1,080	11.3	707	0.6
Dec-06-2018	1,000	11.7	694	0.6
Dec-07-2018	942	11.6	683	0.5
Dec-08-2018	895	11.2	681	0.6
Dec-09-2018	846	11.2	680	0.6
Dec-10-2018	802	11.3	678	<0.4
Dec-11-2018	747	11.1	676	0.5
Dec-12-2018	708	10.9	676	0.5
Dec-13-2018	674	10.7	676	0.5
Dec-14-2018	647	10.6	676	<0.4
Dec-15-2018	625	10.5	676	0.5
Dec-16-2018	617	10.6	676	<0.4
Dec-17-2018	660	11.4	680	<0.4
Dec-18-2018	678	11.8	683	<0.4
Dec-19-2018	720	11.5	748	<0.4
Dec-20-2018	788	11.8	971	<0.4

PARAMETER	Flow	Temperature	Specific Conductance	Total Selenium
DATA SOURCE	USGS	USGS	USGS	USBR
UNITS	cfs	°C	µS/cm	µg/L
Dec-21-2018	784	12.3	974	0.5
Dec-22-2018	742	12.4	834	0.6
Dec-23-2018	702	12.1	742	0.6
Dec-24-2018	673	11.8	704	0.5
Dec-25-2018	659	11.8	701	0.5
Dec-26-2018	643	11.1	695	0.5
Dec-27-2018	641	10.3	696	0.4
Dec-28-2018	641	8.9	705	0.4
Dec-29-2018	632	8.5	855	0.4
Dec-30-2018	633	8.6	1,070	<0.4
Dec-31-2018	623	8.6	1,140	0.5

NOTES:

USGS data webpage.

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

Table 9b. 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	µS/cm
Jan-18	54,850	12	999	N/A
Feb-18	41,690	12	1,192	N/A
Mar-18	104,000	15	1,004	0.814
Apr-18	165,380	17	512	0.400
May-18	50,750	22	837	0.399
Jun-18	27,000	25	992	0.414
Jul-18	19,640	27	963	0.401
Aug-18	18,990	25	908	0.421
Sep-18	33,560	22	634	0.403
Oct-18	34,050	18	491	0.401
Nov-18	37,960	13	526	0.404
Dec-18	47,860	11	745	0.404

NOTES:

Table 9c. 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-04-2018	13.1	7.8	1,000	11.0	22.7	<0.4	0.5	
Jan-11-2018	9.4	7.5	922	13.3	37.0	0.5	0.6	
Jan-18-2018	12.6	7.9	1,359	13.0	33.3	1.30 U	1.3 U	
Jan-25-2018	14.2	7.7	1,158	11.7	26.0	0.5	0.8	
Jan-30-2018	13.3	7.5	1,284	11.3	21.9	<0.4	0.7	5
Feb-06-2018	11.9	8.3	1,138	14.6	25.2	0.4	0.7	
Feb-13-2018	11.8	7.9	1,192	12.5	23.9	<0.4	0.7	
Feb-22-2018	13.5	7.7	1,319	11.9	19.1	<0.4	0.7	
Feb-27-2018	12.6	7.9	1,259	10.5	23.1	<0.4	0.6	6
Mar-06-2018	11.1	7.6	1,078	12.8	74.2	1.27 U	1.2 U	
Mar-15-2018	8.9	7.9	1,382	15.4	28.8	1.24 U	0.9	
Mar-22-2018								
Mar-29-2018	11.3	6.7	704	16.9	98.1	<0.4	0.4	3
Apr-03-2018	10.6	7.1	524	17.6	64.3	<0.4	0.3	
Apr-10-2018	13.9	7.3	297	16.2	42.8	<0.4	0.2	
Apr-17-2018	15.8	7.8	502	15.0	31.2	<0.4	0.2	
Apr-24-2018	15.6	7.1	553	19.2	31.3	<0.4	0.3	2
May-01-2018	16.5	6.9	713	17.6	32.8	<0.4	0.3	
May-08-2018	15.0	7.2	841	21.4	31.5	<0.4	0.4	
May-15-2018	14.3	7.0	829	21.4	29.8	<0.4	0.3	
May-24-2018	11.5	7.8	1,400	22.4	32.5	<0.4	0.4	
May-28-2018								
Jun-04-2018								
Jun-15-2018	13.9	7.1	903	25.0	37.8	<0.4	0.4	
Jun-21-2018	10.0	7.2	919	23.7	34.1	<0.4	0.4	
Jun-28-2018	10.2	7.3	1,018	24.9	38.2	0.5	0.4	7
Jul-06-2018	9.8	7.0	871	25.3	26.9	0.5	0.3	
Jul-13-2018	10.3	7.2	978	27.3	26.1	0.4	0.4	
Jul-19-2018	12.3	7.3	1,000	27.1	25.2	0.4	0.4	
Jul-26-2018		7.0	997	26.2	35.4	<0.4	0.4	6
Aug-02-2018								
Aug-09-2018	10.4	6.7	894	24.4	32.1	<0.4	0.3	
Aug-13-2018	11.1	7.1	803	25.5	31.8	0.5	0.3	
Aug-20-2018	10.6	7.0	945	24.3	29.6	0.5	0.3	
Aug-27-2018	10.3	7.1	787	22.9	28.1	<0.4	0.3	5
Sep-05-2018	7.4	7.2	821	24.3	22.0	<0.4	0.2	
Sep-10-2018	11.6	7.0	860	22.3	18.9	<0.4	0.3	
Sep-17-2018	11.0	7.7	303	19.4	20.9	<0.4	0.1	
Sep-26-2018	11.0	7.2	367	19.6	19.9	<0.4	0.1	3
Oct-03-2018	10.2	7.1	663	22.1	19.3	<0.4	0.3	
Oct-10-2018	11.1	6.9	710	18.9	20.6	<0.4	0.3	
Oct-15-2018	12.0	6.7	754	17.2	17.4	<0.4	0.4	
Oct-22-2018	11.7	7.0	493	16.6	16.1	<0.4	0.2	
Oct-29-2018	11.8	6.8	845	17.5	20.1	<0.4	0.4	5
Nov-05-2018	12.5	7.2	894	15.9	22.0	<0.4	0.4	
Nov-14-2018	11.2	7.2	950	11.0	17.5	<0.4	0.4	
Nov-19-2018	14.0	5.9	947	10.1	16.5	<0.4	0.5	
Nov-26-2018	14.3	6.8	951	13.4	24.6	<0.4	0.5	4
Dec-03-2018	11.8	6.8	1,158	11.8	32.4	0.8	1.0 U	
Dec-10-2018	12.0	7.1	1,153	11.4	23.7	0.4	0.8	
Dec-17-2018	11.2	8.7	1,213	11.6	44.5	0.4	0.7	5
Dec-27-2018	13.0	7.3	1,395	11.0	23.2	0.5	0.8	

NOTES:

PARAMETER	Nutrients	
	Nitrates as N (Dissolved)	Ammonia as N
DATA SOURCE	USBR	USBR
UNITS	mg/L	mg/L
Jan-30-2018	1.60	0.14 H
Feb-27-2018	1.4 T	0.13
Mar-29-2018	0.95	0.29 U
Apr-24-2018	0.51	0.06
May-28-2018		
Jun-28-2018	1.50	0.14
Jul-26-2018	2.6T	0.10
Aug-27-2018	3.8T	0.09
Sep-26-2018	1.40	0.06
Oct-29-2018	1.8 V	0.09
Nov-26-2018	0.99	0.35 U
Dec-17-2018	1.30	0.20

NOTES:

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	%	%	%	%	%	%
1/17/2018	N/A	100%	N/A	N/A	N/A	100%
2/6/2018	N/A	100%	N/A	N/A	N/A	98%
3/19/2018	100%	100%	100%	98%	100%	100%
4/13/2018	N/A	98%	N/A	N/A	N/A	100%
5/21/2018	N/A	100%	N/A	N/A	N/A	100%
6/14/2018	100%	100%	100%	100%	N/A	100%
7/19/2018	N/A	100%	N/A	N/A	N/A	100%
8/23/2018	N/A	100%	N/A	N/A	N/A	100%
9/12/2018	100%	100%	98%	98%	N/A	100%
10/24/2018	N/A	100%	N/A	N/A	N/A	100%
11/28/2018	100%	92%	100%	N/A	N/A	93%
12/12/2018	N/A	98%	N/A	100%	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	%	%	%	%	%	%
1/17/2018	N/A	100%	N/A	N/A	N/A	100%
2/6/2018	N/A	95%	N/A	N/A	N/A	100%
3/19/2018	100%	100%	100%	100%	95%	100%
4/13/2018	N/A	100%	N/A	N/A	N/A	100%
5/21/2018	N/A	100%	N/A	N/A	N/A	100%
6/14/2018	100%	100%	100%	95%	N/A	100%
7/19/2018	N/A	100%	N/A	N/A	N/A	100%
8/23/2018	N/A	100%	N/A	N/A	N/A	100%
9/12/2018	100%	100%	100%	100%	N/A	100%
10/24/2018	N/A	100%	N/A	N/A	N/A	100%
11/28/2018	100%	100%	100%	N/A	N/A	100%
12/12/2018	N/A	95%	N/A	100%	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
1/17/2018	N/A	6.17	N/A	N/A	N/A	3.06
2/6/2018	N/A	7.61	N/A	N/A	N/A	4.05
3/19/2018	3.32	6.29	5.86	5.82	3.06	3.34
4/13/2018	N/A	6.00	N/A	N/A	N/A	2.57
5/21/2018	N/A	6.57	N/A	N/A	N/A	3.43
6/14/2018	4.12	4.64	5.11	5.06	N/A	2.75
7/19/2018	N/A	9.20	N/A	N/A	N/A	4.02
8/23/2018	N/A	7.04	N/A	N/A	N/A	3.07
9/12/2018	2.08	5.96	6.52	5.61	N/A	2.74
10/24/2018	N/A	7.65	N/A	N/A	N/A	2.47
11/28/2018	4.04	8.43	7.67	N/A	N/A	3.76
12/12/2018	N/A	8.54	N/A	8.36	N/A	3.2

Table 15. Summary of Hyalella azteca survival in sediment

LOCATION	Station B3	Station C	Station D	Station F	Station R	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%	%
3/19/2018	N/A	N/A	98%	N/A	N/A	100%
9/12/2018	N/A	N/A	93%	N/A	N/A	85%

Table 14. 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 - Decembe
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 criteri
††††	DMC water failed to meet minimum growth (106cell/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