

APPENDIX E

FLOW EXCEEDANCE CURVES FOR PROJECT AREA STREAMS

Table E-1. Monthly flow exceedance statistics for Majors Creek above and below diversion for all water years during the model period of record. Daily flow data generated from the Confluence Model.

EXCEEDANCE FLOW DATA FOR CONFLUENCE MODEL DATA ON MAJORS CREEK												
WY TYPE: All Years												
STATION Majors Creek Above Diversion												
FLOW (CFS)												
% EXCEED.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAXIMUM	461.1	332.8	253.4	280.0	35.4	11.8	17.0	2.9	22.1	193.2	115.3	415.4
1	154.1	138.9	84.6	61.3	15.1	5.3	3.6	2.8	2.7	5.9	25.0	72.0
5	52.6	66.0	40.5	19.8	7.1	4.1	3.0	2.5	2.3	2.6	6.6	18.8
25	9.5	12.4	10.0	6.6	4.0	2.8	2.3	2.0	1.9	1.8	2.2	3.3
50	3.0	4.8	5.2	3.7	2.8	2.2	1.9	1.7	1.5	1.5	1.6	2.0
75	1.6	2.4	2.8	2.3	1.9	1.6	1.4	1.3	1.2	1.2	1.2	1.4
95	0.5	0.7	1.1	1.0	0.8	0.7	0.6	0.5	0.5	0.6	0.5	0.7
99	0.3	0.6	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
MINIMUM	0.3	0.6	0.5	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
AVERAGE	12.1	14.4	10.9	6.7	3.3	2.2	1.8	1.6	1.5	1.8	2.7	5.9
STATION Majors Creek Below Diversion												
FLOW (CFS)												
% EXCEED.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAXIMUM	461.1	332.8	253.4	280.0	33.6	11.3	16.5	1.3	20.6	192.7	115.3	415.4
1	153.9	138.9	84.6	62.1	13.0	4.8	2.0	1.2	1.1	4.3	25.0	72.0
5	53.5	65.8	40.9	20.0	6.5	3.3	1.4	0.9	0.7	1.1	6.3	19.2
25	9.0	11.9	9.6	6.1	3.4	1.2	0.7	0.4	0.3	0.2	1.4	2.7
50	2.6	4.4	4.8	3.1	1.3	0.6	0.3	0.2	0.2	0.2	0.1	0.8
75	0.2	1.8	2.4	0.9	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0
95	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVERAGE	11.5	13.8	10.3	6.1	2.3	1.0	0.5	0.3	0.3	0.6	1.7	5.0

Table E-2. Monthly flow exceedance statistics for Laguna and Reggiardo Creeks above and below diversion for all water years during the model period of record. Daily flow data generated from the Confluence Model.

EXCEEDANCE FLOW DATA FOR CONFLUENCE MODEL DATA ON LAGUNA AND REGGIARDO CREEKS												
WY TYPE: All Years												
STATION Laguna and Reggiardo Creeks Above Diversion												
FLOW (CFS)												
% EXCEED.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAXIMUM	598.5	340.5	359.0	382.6	42.5	22.9	18.4	4.4	43.4	368.7	135.9	575.6
1	159.2	170.7	111.1	81.4	23.5	9.5	5.8	3.8	3.0	7.6	29.8	93.0
5	68.2	78.8	64.2	38.3	15.7	7.4	4.5	3.1	2.6	3.5	10.4	26.0
25	20.4	28.5	24.7	15.7	8.6	5.1	3.4	2.6	2.1	2.0	3.1	6.6
50	6.5	12.4	13.1	8.7	5.7	3.8	2.8	2.2	1.9	1.7	1.7	2.8
75	2.3	4.5	5.7	5.0	3.8	2.8	2.2	1.8	1.5	1.3	1.3	1.5
95	0.6	0.5	0.5	0.9	0.6	0.9	0.4	0.6	0.8	0.6	0.4	0.5
99	0.5	0.4	0.2	0.5	0.3	0.1	0.2	0.1	0.1	0.3	0.3	0.2
MINIMUM	0.5	0.4	0.2	0.5	0.3	0.1	0.2	0.1	0.1	0.3	0.3	0.2
AVERAGE	18.4	23.0	19.9	13.4	6.7	4.0	2.8	2.1	1.8	2.1	3.4	8.2
STATION Laguna and Reggiardo Creeks Below Diversion												
FLOW (CFS)												
% EXCEED.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAXIMUM	598.5	340.5	359.0	382.6	36.2	16.6	12.1	0.4	37.1	362.4	135.9	575.6
1	152.9	170.7	106.5	83.1	17.5	3.2	0.6	0.4	0.3	1.3	29.7	92.9
5	66.8	75.1	61.0	33.6	9.4	1.1	0.4	0.3	0.3	0.3	7.3	21.9
25	15.8	22.7	19.1	10.1	2.2	0.5	0.3	0.3	0.2	0.2	0.0	2.1
50	1.5	6.3	7.0	2.4	0.6	0.4	0.3	0.2	0.2	0.2	0.0	0.0
75	0.0	0.0	0.0	0.0	0.4	0.3	0.2	0.2	0.2	0.1	0.0	0.0
95	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0
99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MINIMUM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVERAGE	15.1	18.8	15.4	8.5	2.1	0.5	0.3	0.2	0.2	0.5	1.4	5.6

Table E-3. Monthly flow exceedance statistics for Liddell Creek above and below diversion for all water years during the model period of record. Daily flow data generated from the Confluence Model.

EXCEEDANCE FLOW DATA FOR CONFLUENCE MODEL DATA ON LIDDELL CREEK												
WY TYPE: All Years												
STATION Liddell Creek Above Diversion												
% EXCEED.	FLOW (CFS)											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAXIMUM	43.7	50.0	54.0	50.4	22.7	10.9	5.3	3.2	2.8	7.6	16.2	39.1
1	38.6	42.4	41.4	28.7	14.6	6.6	3.7	3.2	2.8	3.8	10.6	21.4
5	31.3	33.7	29.7	22.0	10.5	5.1	3.2	2.2	2.1	2.1	4.1	12.2
25	11.4	16.6	15.3	10.2	5.7	3.3	2.4	1.9	1.6	1.5	1.8	3.8
50	3.8	7.8	8.3	5.7	3.8	2.6	2.0	1.6	1.4	1.2	1.3	1.8
75	1.8	3.3	3.8	3.3	2.5	2.1	1.7	1.4	1.2	1.0	1.1	1.2
95	1.1	1.5	1.2	1.4	1.7	1.5	1.3	1.1	0.9	0.8	0.8	0.8
99	0.8	0.0	0.4	1.1	1.3	1.0	0.8	0.7	0.6	0.6	0.7	0.2
MINIMUM	0.8	0.0	0.4	1.1	1.1	0.9	0.8	0.6	0.6	0.5	0.5	0.2
AVERAGE	8.4	11.4	11.0	7.8	4.6	2.8	2.1	1.7	1.4	1.4	1.8	3.5
STATION Liddell Creek Below Diversion												
% EXCEED.	FLOW (CFS)											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAXIMUM	41.5	50.0	54.0	50.4	20.2	8.4	2.8	0.7	0.4	5.1	16.2	39.1
1	37.0	41.6	40.7	27.5	12.3	4.1	1.2	0.7	0.4	1.3	8.7	19.5
5	29.9	32.8	28.0	19.8	8.1	2.5	0.7	0.2	0.2	0.2	2.6	10.2
25	9.5	14.8	13.3	8.0	3.2	0.8	0.2	0.2	0.2	0.2	0.0	2.2
50	2.1	5.4	6.0	3.2	1.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0
75	0.0	1.1	1.5	0.8	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0
95	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0
99	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
MINIMUM	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
AVERAGE	6.7	9.4	8.9	5.5	2.3	0.7	0.2	0.2	0.1	0.2	0.5	2.1