

APPENDIX B – WATER QUALITY DATA

This appendix provides a summary of data used in the metals, sediment, and *E. coli* water quality assessments and development of the Red Rock TMDLs.

TABLE OF CONTENTS

B1.1 Metals	B-1
B1.1.1 Metals Reference Sites: Raw Data	B-1
B1.1.2 Metals Reference Sites: 75 th Percentiles.....	B-5
B1.1.3 Metals Water Quality Data.....	B-6
B2.1 Sediment	B-53
B2.1.1 Sediment Data for Determination of E Channel Targets.....	B-53
B3.1 <i>E. coli</i>	B-54
B3.1.1 <i>E. coli</i> Water Quality Data	B-54

B1.1 METALS

B1.1.1 METALS REFERENCE SITES: RAW DATA

Table B-1. Water Quality Data Used to Estimate Metals Reference Concentrations (µg/L) (see Section 6.6.1.1)

Site	Date	Ecoregion	Longitude	Latitude	Aluminum	Arsenic	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Zinc
MDEQ_WQ_WQX-M01BEANC01	9/23/2003	17e	-112.027	44.581	NA	11	0.1	1	1	430	1	NA	2	NA
MDEQ_WQ_WQX-M01BEANC02	9/25/2003	17af	-112.036	44.588	NA	11	0.1	1	1	140	1	NA	2	NA
MDEQ_WQ_WQX-M01CABNC03	6/14/2016	17aa	-112.976	44.633	26	2	0.03	NA	1	290	0.3	0.0033	1	8
MDEQ_WQ_WQX-M01CABNC03	6/5/2017	17aa	-112.976	44.633	23	2	0.11	NA	1	180	0.074	0.0027	0.09	1.9
MDEQ_WQ_WQX-M01CABNC03	7/13/2017	17aa	-112.976	44.633	14	2	0.03	NA	0.66	410	0.097	0.0009	0.05	3.1
MDEQ_WQ_WQX-M01CABNC03	7/21/2016	17aa	-112.976	44.633	9	2	0.03	NA	1	260	0.3	0.005	11	8
MDEQ_WQ_WQX-M01CABNC03	8/12/2016	17aa	-112.976	44.633	9	2	0.03	NA	1	240	0.3	0.005	1	11
MDEQ_WQ_WQX-M01CABNC03	8/15/2017	17aa	-112.976	44.633	5	2	0.02	NA	0.78	530	0.12	0.0025	0.11	1.4
MDEQ_WQ_WQX-M01CABNC03	9/12/2017	17aa	-112.976	44.633	9	3	0.03	NA	0.83	520	0.3	0.0017	0.3	2.6
MDEQ_WQ_WQX-M01ELKC01	9/13/2004	17af	-111.664	44.644	NA	2.5	5.55	1	1	40	6	0.005	2	NA
MDEQ_WQ_WQX-M01HELRC01	7/30/2004	17e	-111.561	44.581	100	3	0.1	11	1	20	1	NA	2	NA
MDEQ_WQ_WQX-M01JONSC01	9/25/2003	17e	-111.968	44.573	NA	10	0.1	1	11	20	1	NA	2	NA
MDEQ_WQ_WQX-M01JONSC02	9/25/2003	17af	-111.995	44.607	NA	12	0.1	1	2	11	2	NA	2	NA
MDEQ_WQ_WQX-M01JONSC03	7/22/2005	17af	-111.977	44.592	100	3	0.1	1	1	80	1	0.005	2	NA

Table B-1. Water Quality Data Used to Estimate Metals Reference Concentrations (µg/L) (see Section 6.6.1.1)

Site	Date	Ecoregion	Longitude	Latitude	Aluminum	Arsenic	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Zinc
MDEQ_WQ_WQX-M01JONSC03	8/17/2017	17af	-111.977	44.592	100	0.52	11	0.21	0.38	60	11	NA	0.39	NA
MDEQ_WQ_WQX-M01JONSC04	7/22/2005	17af	-111.995	44.606	100	3	11	1	1	190	11	0.005	2	NA
MDEQ_WQ_WQX-M01JONSC04	8/18/2017	17af	-111.995	44.606	100	0.67	0.03	1	0.3	200	0.032	NA	0.48	NA
MDEQ_WQ_WQX-M01JUNCC01	6/7/2016	17aa	-112.588	44.642	100	2	0.03	11	1	110	1	0.0019	1	NA
MDEQ_WQ_WQX-M01LONGC01	9/25/2003	17ab	-112.020	44.742	NA	11	0.1	11	1	70	1	NA	2	NA
MDEQ_WQ_WQX-M01LONGC02	6/6/2017	17af	-112.109	44.657	9	1	0.02	0.47	1	330	11	NA	11	NA
MDEQ_WQ_WQX-M01LONGC02	6/6/2018	17af	-112.109	44.657	6	1	11	0.3	0.7	350	0.3	0.0009	0.63	NA
MDEQ_WQ_WQX-M01LONGC02	7/18/2017	17af	-112.109	44.657	100	1	0.02	0.05	0.31	80	0.053	NA	0.12	NA
MDEQ_WQ_WQX-M01LONGC02	8/17/2017	17af	-112.109	44.657	11	1	0.01	1	0.43	60	0.013	NA	0.32	NA
MDEQ_WQ_WQX-M01LONGC02	9/26/2003	17af	-112.109	44.657	NA	10	0.1	1	11	310	1	NA	2	NA
MDEQ_WQ_WQX-M01LONGC02	9/28/2016	17af	-112.109	44.657	100	1	0.03	1	1	11	1	NA	1	NA
MDEQ_WQ_WQX-M01LONGC02	9/5/2017	17af	-112.109	44.657	2.9	11	0.2	0.41	0.85	70	0.5	NA	0.69	NA
MDEQ_WQ_WQX-M01LONGC04	6/6/2017	17ab	-112.077	44.714	15	1	0.05	0.8	1	530	0.5	NA	0.67	NA
MDEQ_WQ_WQX-M01LONGC04	6/6/2018	17ab	-112.077	44.714	10	0.83	0.03	0.4	0.8	350	0.3	0.0009	0.6	NA
MDEQ_WQ_WQX-M01LONGC04	7/18/2017	17ab	-112.077	44.714	100	0.84	0.02	0.1	0.39	90	0.086	NA	0.3	NA
MDEQ_WQ_WQX-M01LONGC04	7/27/2017	17ab	-112.077	44.714	27	0.76	0.02	0.12	0.43	19	0.036	NA	11	NA
MDEQ_WQ_WQX-M01LONGC04	8/16/2017	17ab	-112.077	44.714	11	11	11	11	11	11	11	NA	0.51	NA

Table B-1. Water Quality Data Used to Estimate Metals Reference Concentrations (µg/L) (see Section 6.6.1.1)

Site	Date	Ecoregion	Longitude	Latitude	Aluminum	Arsenic	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Zinc
MDEQ_WQ_WQX-M01LONGC04	8/23/2017	17ab	-112.077	44.714	17	0.85	0.02	0.11	0.55	80	0.11	NA	0.57	NA
MDEQ_WQ_WQX-M01LONGC04	9/27/2017	17ab	-112.077	44.714	18	0.55	0.03	0.23	2	80	0.18	NA	0.58	NA
MDEQ_WQ_WQX-M01LONGC04	9/5/2017	17ab	-112.077	44.714	1.4	0.91	0.02	0.06	0.5	80	0.1	NA	0.53	NA
MDEQ_WQ_WQX-M01LONGC06	7/27/2017	17af	-112.112	44.638	10	2	0.03	0.06	0.42	110	11	NA	0.29	NA
MDEQ_WQ_WQX-M01LONGC06	8/23/2017	17af	-112.112	44.638	15	3	0.02	11	0.6	90	0.097	NA	0.33	NA
MDEQ_WQ_WQX-M01LONGC06	9/27/2017	17af	-112.112	44.638	11	3	0.03	0.08	1	10	1	NA	1	NA
MDEQ_WQ_WQX-M01LONGC20	7/27/2017	17af	-112.106	44.674	100	1	0.02	0.09	0.48	70	11	NA	0.46	NA
MDEQ_WQ_WQX-M01LONGC20	8/23/2017	17af	-112.106	44.674	8.3	1	0.01	11	0.53	50	0.072	NA	0.44	NA
MDEQ_WQ_WQX-M01LONGC20	9/27/2017	17af	-112.106	44.674	11	0.75	0.01	0.15	0.81	60	0.057	NA	0.56	NA
MDEQ_WQ_WQX-M01LONGC25	7/27/2017	17ab	-112.102	44.687	12	0.97	0.02	0.08	0.56	100	11	NA	0.52	NA
MDEQ_WQ_WQX-M01LONGC25	8/23/2017	17ab	-112.102	44.687	19	0.94	0.02	11	0.53	100	0.1	NA	0.45	NA
MDEQ_WQ_WQX-M01LONGC25	9/27/2017	17ab	-112.102	44.687	11	0.61	0.02	0.12	0.56	90	0.076	NA	0.56	NA
MDEQ_WQ_WQX-M01LONGC30	7/27/2017	17ab	-112.094	44.700	10	0.84	0.02	0.13	0.47	110	11	NA	0.58	NA
MDEQ_WQ_WQX-M01LONGC30	8/23/2017	17ab	-112.094	44.700	21	1	0.02	11	0.67	100	0.28	NA	0.51	NA
MDEQ_WQ_WQX-M01LONGC30	9/27/2017	17ab	-112.094	44.700	11	0.64	0.02	0.12	0.6	80	0.1	NA	0.67	NA
MDEQ_WQ_WQX-M01PRICC01	6/23/2012	17aa	-112.125	44.574	10	2	11	NA	1	230	0.5	NA	1	5
MDEQ_WQ_WQX-M01PRICC01	7/12/2012	17aa	-112.125	44.574	10	2	0.08	NA	1	210	11	NA	1	5

Table B-1. Water Quality Data Used to Estimate Metals Reference Concentrations (µg/L) (see Section 6.6.1.1)

Site	Date	Ecoregion	Longitude	Latitude	Aluminum	Arsenic	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Zinc
MDEQ_WQ_WQX-M01PRICC01	7/9/2013	17aa	-112.125	44.574	11	3	0.04	NA	1	630	0.6	NA	1	5
MDEQ_WQ_WQX-M01PRICC01	8/28/2017	17aa	-112.125	44.574	7.8	1.5	0.029	NA	6	615	0.8	NA	5.59	4.35
MDEQ_WQ_WQX-M01RDRKC60	7/28/2017	17af	-111.607	44.618	42	0.83	0.01	NA	0.64	260	0.16	NA	11	0.9
MDEQ_WQ_WQX-M01RDRKC60	8/24/2017	17af	-111.607	44.618	16	0.64	0.03	NA	11	90	0.066	NA	0.05	1
MDEQ_WQ_WQX-M01RDRKC60	9/28/2017	17af	-111.607	44.618	11	0.61	0.03	NA	0.64	120	0.11	NA	0.13	1.1
MDEQ_WQ_WQX-M01SAGEC50	6/7/2017	17ab	-112.555	44.796	11	4	0.24	1	2	390	0.7	0.001	0.71	NA
MDEQ_WQ_WQX-M01SAGEC50	7/12/2017	17ab	-112.555	44.796	100	4	0.03	0.19	0.79	80	0.032	0.005	0.1	NA
MDEQ_WQ_WQX-M01SAGEC50	8/15/2017	17ab	-112.555	44.796	11	3	11	0.18	11	90	11	0.0004	11	NA
MDEQ_WQ_WQX-M01SAGEC50	9/11/2017	17ab	-112.555	44.796	100	3	0.01	0.26	0.83	60	0.094	0.0004	0.09	NA
MDEQ_WQ_WQX-M02FNCHC05	7/30/2014	17ah	-112.901	45.359	9	1	0.03	NA	1	20	0.3	NA	NA	11
MDEQ_WQ_WQX-M06BLNSC03	6/12/2013	17aa	-112.901	45.359	NA	4	NA	NA	NA	NA	NA	NA	NA	NA
MDEQ_WQ_WQX-M06BLNSC03	6/12/2013	17aa	-111.792	45.215	9	NA	0.03	NA	1	10	0.3	NA	2	6
MDEQ_WQ_WQX-M06BLNSC03	7/11/2013	17aa	-111.792	45.215	9	5	0.03	NA	1	10	0.3	11	1.2	5
MDEQ_WQ_WQX-M06BLNSC03	8/16/2013	17aa	-111.792	45.215	9	4	0.03	NA	1	10	0.3	NA	1.3	11
MDEQ_WQ_WQX-M06BLNSC03	9/18/2013	17aa	-111.792	45.215	9	11	0.03	NA	11	NA	0.3	0.005	1.4	8.2
MDEQ_WQ_WQX-M06MDWFR04	7/31/2012	17ab	-111.904	44.768	30	3	0.08	NA	1	390	0.5	11	1	10
MDEQ_WQ_WQX-M06ODLSC03	6/19/2012	17aa	-111.731	45.260	30	20	0.08	NA	1	50	0.5	NA	1	10

Table B-1. Water Quality Data Used to Estimate Metals Reference Concentrations (µg/L) (see Section 6.6.1.1)

Site	Date	Ecoregion	Longitude	Latitude	Aluminum	Arsenic	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Zinc
MDEQ_WQ_WQX-M06ODLSC03	7/26/2012	17aa	-111.731	45.260	30	11	0.08	NA	11	50	0.5	NA	1	10
MDEQ_WQ_WQX-M06ODLSC03	8/27/2012	17aa	-111.731	45.260	30	20	0.08	NA	2	50	11	NA	1	11
MDEQ_WQ_WQX-M06ODLSC03	9/17/2013	17aa	-111.731	45.260	9	22	0.03	NA	1	NA	0.3	NA	0.9	5
MTVOLWQM_WQX-OD-RST	7/14/2013	17aa	-111.732	45.261	NA	11	NA	NA	NA	NA	NA	NA	NA	NA
MTVOLWQM_WQX-OD-RST	7/28/2012	17aa	-111.732	45.261	30	32	0.08	NA	1	60	0.5	NA	1	10
MTVOLWQM_WQX-OD-RST	8/23/2013	17aa	-111.732	45.261	NA	37	NA	NA	NA	NA	NA	NA	NA	NA
MTVOLWQM_WQX-OD-RST	8/26/2012	17aa	-111.732	45.261	30	34	0.08	NA	1	40	0.5	NA	11	10
MTVOLWQM_WQX-OD-RST	9/22/2013	17aa	-111.732	45.261	NA	34	NA	NA	NA	NA	NA	NA	NA	NA
MTVOLWQM_WQX-OD-RST	9/23/2012	17aa	-111.732	45.261	30	38	0.08	NA	11	50	0.5	NA	1	10

B1.1.2 METALS REFERENCE SITES: 75TH PERCENTILES

Table B-2. The 75% Percentile of Metals Reference Concentrations Used to Estimate Background Concentrations, in µg/L (See Section 6.6.1.1)

Ecoregion	Aluminum	Arsenic	Cadmium	Chromium	Copper	Iron	Lead	Mercury	Selenium	Zinc
17aa	11.3	3.2	0.0	NA	1.1	404	0.470	0.005	1.2	5.6
17ab	35.1	3.4	0.1	0.4	1.0	161	0.489	0.003	0.9	10.0
17af	88.2	2.7	0.1	1	1	189	1	0.005	2.0	1.0
17ah	9	1	0.03	NA	1	20	0.3	NA	NA	8
17e	100	10.5	0.1	1	1	225	1	NA	2	NA
All	48.9	4.1	0.1	0.8	0.9	221	0.7	0.0	1.1	6.2

NA=Not Applicable because not measured

B1.1.3 METALS WATER QUALITY DATA

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01BIGSC02	Big Sheep Creek	8/10/2016	44.544	-112.798	10	172	5	ND	1	ND	ND	ND	160	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01BIGSC02	Big Sheep Creek	9/12/2017	44.544	-112.798	8.38	179	4	ND	1	0.02	0.90	0.56	200	0.075	5.00E-04	0.63	3	N
MDEQ_WQ_WQX -M01BIGSC02	Big Sheep Creek	8/15/2017	44.544	-112.798	32.02	203	13	ND	1	0.03	2.00	0.87	360	0.16	0.0011	0.92	2.3	N
MDEQ_WQ_WQX -M01BIGSC02	Big Sheep Creek	6/13/2016	44.544	-112.798	64.43	221	20	ND	2	0.03	2.00	1.00	580	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01BIGSC02	Big Sheep Creek	6/1/2017	44.544	-112.798	30.29	229	13	7	2	0.02	1.00	1.00	330	0.17	0.001	0.45	1.8	N
MDEQ_WQ_WQX -M01BIGSC01	Big Sheep Creek	8/11/2016	44.708	-112.711	1.53	239	ND	ND	2	ND	ND	ND	70	ND	ND	1	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01BIGSC02	Big Sheep Creek	7/22/2016	44.544	-112.798	18.01	239	12	ND	1	ND	ND	ND	250	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01SHEPC01	Big Sheep Creek	8/10/2016	44.64	-112.788	33.93	240	ND	ND	2	ND	ND	ND	60	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01BIGSC01	Big Sheep Creek	7/27/2015	44.708	-112.711	1.12	244	2.5	ND	2	ND	ND	2.50	70	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01SHEPC01	Big Sheep Creek	6/14/2016	44.64	-112.788	189.2	247	14	ND	2	ND	1.00	ND	380	ND	NC	1	ND	N
MDEQ_WQ_WQX -M01BIGSC01	Big Sheep Creek	7/21/2016	44.708	-112.711	1.11	247	ND	ND	2	ND	ND	ND	30	ND	ND	1	ND	N
MDEQ_WQ_WQX -M01SHEPC01	Big Sheep Creek	6/1/2017	44.64	-112.788	137.9	249	15	ND	3	0.03	1.00	1.00	370	0.22	0.0006	0.92	2.8	N
MDEQ_WQ_WQX -M01SHEPC01	Big Sheep Creek	7/21/2016	44.64	-112.788	47	251	ND	ND	2	ND	3.00	ND	50	ND	ND	1	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01BIGSC01	Big Sheep Creek	9/29/2016	44.708	-112.711	NC	257	17	ND	2	ND	1.00	ND	310	ND	ND	1	ND	N
MDEQ_WQ_WQX -M01BIGSC01	Big Sheep Creek	6/9/2016	44.708	-112.711	17.52	257	50	ND	4	0.04	3.00	1.00	1090	0.6	NC	1	ND	N
MDEQ_WQ_WQX -M01BIGSC01	Big Sheep Creek	6/1/2017	44.708	-112.711	20.19	261	16	ND	3	0.02	1.00	0.91	380	0.22	0.0006	1	2.5	N
MDEQ_WQ_WQX -M01SHEPC01	Big Sheep Creek	9/27/2016	44.64	-112.788	41.06	263	ND	ND	2	ND	ND	ND	80	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01BIGSC01	Big Sheep Creek	6/11/2015	44.708	-112.711	4.29	285	11	ND	2	ND	ND	ND	230	ND	NC	1	ND	N
MDEQ_WQ_WQX -M01BIGSC02	Big Sheep Creek	7/12/2017	44.544	-112.798	17.98	NC	6	ND	2	0.02	0.78	0.81	170	0.16	0.0005	0.34	1.3	N
MDEQ_WQ_WQX -M01BDYDC20	Bloody Dick Creek	5/31/2017	45.077	-113.423	450.5	10	6	157	0.65	ND	0.43	1.00	290	0.24	0.002	0.09	1.5	Y

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01BDYDC01	Bloody Dick Creek	6/10/2016	45.069	-113.421	52.76	10	4	166	ND	ND	ND	ND	220	ND	NC	ND	ND	Y
MDEQ_WQ_WQX -M01BDYDC06	Bloody Dick Creek	6/22/2012	45.043	-113.409	66.07	11	2	70	ND	ND	ND	ND	110	ND	NC	ND	ND	Y
MDEQ_WQ_WQX -M01BDYDC07	Bloody Dick Creek	5/30/2017	44.994	-113.317	164.2	11	10	257	0.74	0.02	0.55	1.00	370	0.8	0.004	0.13	1.9	Y
MDEQ_WQ_WQX -M01BDYDC07	Bloody Dick Creek	6/6/2016	44.994	-113.317	485.8	11	10	146	ND	ND	ND	1.00	320	0.7	NC	ND	ND	Y
MDEQ_WQ_WQX -M01BDYDC06	Bloody Dick Creek	6/29/2013	45.043	-113.409	65.67	11	1	57	ND	ND	ND	ND	140	ND	NC	ND	ND	Y
MDEQ_WQ_WQX -M01BDYDC07	Bloody Dick Creek	6/11/2015	44.994	-113.317	189.6	12	3.5	135	ND	ND	ND	ND	180	ND	NC	ND	ND	Y
MDEQ_WQ_WQX -M01BDYDC01	Bloody Dick Creek	7/19/2016	45.069	-113.421	12.12	12	<4	47	ND	ND	ND	ND	220	ND	ND	ND	ND	Y

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01BDYDC08	Bloody Dick Creek	8/15/2016	45.120	-113.458	5.49	12	<4	ND	ND	ND	ND	ND	150	ND	ND	ND	ND	Y
MDEQ_WQ_WQX -M01BDYDC06	Bloody Dick Creek	7/13/2019	45.043	-113.409	31.89	12	<4	21	0.52	ND	0.20	0.40	120	0.1	NC	ND	3	Y
MDEQ_WQ_WQX -M01BDYDC06	Bloody Dick Creek	7/22/2012	45.043	-113.409	19.32	13	<4	60	ND	ND	ND	ND	160	ND	NC	ND	ND	Y
MDEQ_WQ_WQX -M01BDYDC01	Bloody Dick Creek	8/8/2016	45.069	-113.421	9.22	13	<4	57	ND	ND	ND	ND	250	ND	ND	ND	ND	Y
MDEQ_WQ_WQX -M01BDYDC06	Bloody Dick Creek	8/30/2017	45.043	-113.409	18.81	13	3	54	0.61 5	0.01	0.13	0.21	180	0.01 9	NC	0.05	0.4	Y
MDEQ_WQ_WQX -M01BDYDC01	Bloody Dick Creek	9/26/2016	45.069	-113.421	8.97	14	<4	57	ND	ND	ND	ND	260	ND	ND	ND	ND	Y
MDEQ_WQ_WQX -M01BDYDC07	Bloody Dick Creek	7/19/2016	44.994	-113.317	31.09	14	<4	59	ND	ND	ND	ND	200	0.3	ND	ND	ND	Y

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01BDYDC07	Bloody Dick Creek	8/9/2016	44.994	-113.317	21.77	14	<4	67	ND	ND	ND	ND	220	0.4	ND	ND	ND	Y
MDEQ_WQ_WQX -M01BDYDC07	Bloody Dick Creek	7/31/2015	44.994	-113.317	21.95	15	<4	ND	ND	ND	ND	ND	140	ND	NC	ND	ND	Y
MDEQ_WQ_WQX -M01BDYDC01	Bloody Dick Creek	8/14/2017	45.069	-113.421	25.83	NC	NC	NC	NC	NC	NC	NC	NC	NC	0.001 1	NC	NC	Y
MDEQ_WQ_WQX -M01BDYDC01	Bloody Dick Creek	9/13/2017	45.069	-113.421	0.59	NC	NC	NC	NC	NC	NC	NC	NC	NC	0.001 6	NC	NC	Y
MDEQ_WQ_WQX -M01BDYDC20	Bloody Dick Creek	7/10/2017	45.077	-113.423	50.73	NC	NC	NC	NC	NC	NC	NC	NC	NC	0.001 2	NC	NC	Y
MDEQ_WQ_WQX -M01CABNC03	Cabin Creek	6/5/2017	44.633	-112.976	5.76	55	2	23	2	0.11	0.27	1.00	180	0.07 4	0.002 7	0.09	1.9	N
MDEQ_WQ_WQX -M01CABNC03	Cabin Creek	6/14/2016	44.633	-112.976	2.7	60	ND	26	2	ND	ND	ND	290	ND	NC	ND	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01CABNC03	Cabin Creek	8/15/2017	44.633	-112.976	0.38	87	10	5	2	0.02	0.29	0.78	530	0.12	0.0025	0.11	1.4	N
MDEQ_WQ_WQX -M01CABNC03	Cabin Creek	7/21/2016	44.633	-112.976	1	92	ND	ND	2	ND	ND	ND	260	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01CABNC03	Cabin Creek	8/12/2016	44.633	-112.976	0.42	93	ND	ND	2	ND	ND	ND	240	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01CABNC03	Cabin Creek	9/12/2017	44.633	-112.976	0.44	104	8	ND	3	ND	0.29	0.83	520	ND	1.70E-03	0.3	2.6	N
MDEQ_WQ_WQX -M01CABNC02	Cabin Creek	6/5/2017	44.582	-112.885	3.19	199	6	ND	3	ND	0.30	1.00	150	0.096	0.0011	0.13	2.8	N
MDEQ_WQ_WQX -M01CABNC02	Cabin Creek	7/21/2016	44.582	-112.885	NC	213	4	ND	3	ND	ND	ND	30	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01CABNC02	Cabin Creek	8/17/2016	44.582	-112.885	0.15	214	ND	ND	2	ND	ND	ND	30	ND	ND	ND	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01CABNC02	Cabin Creek	6/8/2016	44.582	-112.885	4.97	228	6	ND	3	ND	ND	ND	110	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01CABNC02	Cabin Creek	6/11/2015	44.582	-112.885	14.1	233	8.5	ND	3	ND	ND	2.00	170	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01CABNC02	Cabin Creek	9/27/2016	44.582	-112.885	0.08	241	8	ND	2	ND	ND	ND	250	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01CABNC02	Cabin Creek	7/29/2015	44.582	-112.885	0.09	255	1.5	ND	2	ND	ND	ND	20	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01CABNC03	Cabin Creek	7/13/2017	44.633	-112.976	1.25	NC	6	14	2	ND	0.25	0.66	410	0.097	0.0009	0.05	3.1	N
MDEQ_WQ_WQX -M01CCYNR03	Clark Canyon Reservoir	7/6/2017	44.98	-112.865	NC	237	1.4	ND	3	0.005	0.19	0.84	30	0.065	NC	0.52	1.05	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	7/6/2017	44.999	-112.861	NC	237	2.4	ND	3.5	ND	0.20	0.94	45	0.092	NC	0.51	9.75	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01CCYNR03	Clark Canyon Reservoir	6/15/2017	44.98	-112.865	NC	242	4.3	ND	3	ND	0.25	1.31	95	0.127	NC	0.605	3.45	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	7/27/2017	44.999	-112.861	NC	250	1.6	ND	3.5	0.005	0.14	0.31	50	0.045	NC	0.505	1.95	N
MDEQ_WQ_WQX -M01CCYNR03	Clark Canyon Reservoir	7/27/2017	44.98	-112.865	NC	256	1.4	ND	3.5	0.005	0.14	0.41	45	0.04	NC	0.525	1.95	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	5/23/2017	44.999	-112.861	NC	260	1.6	ND	3	0.01	0.26	0.51	45	0.103	NC	0.725	1.9	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	10/10/2017	44.999	-112.861	NC	261	13	1.65	4	0.025	0.27	2.00	75	0.185	NC	0.6	3.8	N
MDEQ_WQ_WQX -M01CCYNR03	Clark Canyon Reservoir	9/23/2017	44.98	-112.865	NC	262	9	4.6	4	0.025	0.29	0.52	130	0.18	NC	0.64	ND	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	6/14/2017	44.999	-112.861	NC	263	5.8	ND	3	0.005	0.26	0.75	120	0.127	NC	0.575	1.6	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01CCYNR03	Clark Canyon Reservoir	5/23/2017	44.98	-112.865	NC	264	1.4	ND	2.5	0.015	0.24	0.67	45	0.078	NC	0.8	2.25	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	9/23/2017	44.999	-112.861	NC	264	14	3.4	4	0.025	0.53	0.56	125	0.21	NC	0.705	ND	N
MDEQ_WQ_WQX -M01CCYNR03	Clark Canyon Reservoir	10/10/2017	44.98	-112.865	NC	267	11.5	3.95	4	0.01	0.15	0.76	80	0.16	NC	0.6	1.5	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	8/26/2017	44.999	-112.861	NC	268	6	2.35	4	0.015	0.19	0.61	110	0.129	NC	0.54	1.75	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	8/14/2017	44.999	-112.861	NC	268	1.6	ND	4	ND	0.16	0.48	50	0.157	NC	0.525	1.1	N
MDEQ_WQ_WQX -M01CCYNR03	Clark Canyon Reservoir	8/14/2017	44.98	-112.865	NC	269	5.7	ND	4	0.005	0.31	0.56	130	0.225	NC	0.6	1	N
MDEQ_WQ_WQX -M01CCYNR03	Clark Canyon Reservoir	8/26/2017	44.98	-112.865	NC	270	14.1	2.8	4	0.01	0.41	1.28	285	0.274	NC	0.56	2.1	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	9/9/2017	44.999	-112.861	NC	274	7.7	2.6	4	0.015	0.28	0.68	170	0.193	NC	0.615	2.15	N
MDEQ_WQ_WQX -M01CCYNR03	Clark Canyon Reservoir	9/9/2017	44.98	-112.865	NC	275	15.1	3.05	4	0.02	0.46	1.32	315	0.342	NC	0.645	16.6	N
MDEQ_WQ_WQX -M01CCYNR03	Clark Canyon Reservoir	7/12/2016	44.98	-112.865	NC	275	5	ND	3	ND	ND	ND	125	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	7/19/2016	44.999	-112.861	NC	276	3.25	ND	4	ND	ND	ND	95	ND	NC	1	ND	N
MDEQ_WQ_WQX -M01CCYNR04	Clark Canyon Reservoir	5/26/2016	44.96	-112.862	NC	278	ND	ND	2.5	ND	ND	1.00	45	ND	NC	1	ND	N
MDEQ_WQ_WQX -M01CCYNR05	Clark Canyon Reservoir	5/26/2016	44.979	-112.901	NC	278	ND	ND	3	ND	ND	1.00	60	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR06	Clark Canyon Reservoir	7/13/2016	44.989	-112.871	NC	278	10.3	ND	4	0.015	ND	ND	215	0.2	NC	0.5	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01CCYNR07	Clark Canyon Reservoir	5/26/2016	44.975	-112.871	NC	279	ND	ND	2.5	ND	ND	1.00	45	ND	NC	1	ND	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	6/17/2016	44.999	-112.861	NC	280	1.5	ND	3	ND	ND	ND	45	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	7/13/2016	44.999	-112.861	NC	280	8.5	ND	4	ND	ND	ND	235	0.2	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR04	Clark Canyon Reservoir	7/12/2016	44.96	-112.862	NC	280	7.5	ND	3	ND	ND	ND	120	ND	NC	1	ND	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	5/26/2016	44.999	-112.861	NC	281	ND	ND	3	0.015	ND	0.50	40	ND	NC	0.5	ND	N
MDEQ_WQ_WQX -M01CCYNR05	Clark Canyon Reservoir	7/13/2016	44.979	-112.901	NC	281	7	ND	4	0.015	ND	ND	130	ND	NC	0.5	ND	N
MDEQ_WQ_WQX -M01CCYNR03	Clark Canyon Reservoir	5/26/2016	44.98	-112.865	NC	282	ND	ND	3	ND	ND	1.00	45	ND	NC	0.5	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01CCYNR06	Clark Canyon Reservoir	8/16/2016	44.989	-112.871	NC	282	6	ND	4	ND	ND	ND	160	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR04	Clark Canyon Reservoir	6/17/2016	44.96	-112.862	NC	283	4.5	ND	3	ND	ND	ND	95	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR03	Clark Canyon Reservoir	6/16/2016	44.98	-112.865	NC	283	6	ND	3	ND	ND	ND	105	ND	NC	0.5	ND	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	8/17/2016	44.999	-112.861	NC	284	13	ND	4	ND	ND	ND	250	0.25	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR05	Clark Canyon Reservoir	6/17/2016	44.979	-112.901	NC	284	4.5	ND	3	ND	ND	ND	85	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR07	Clark Canyon Reservoir	6/17/2016	44.975	-112.871	NC	285	5.2 5	ND	3	ND	ND	ND	95	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR03	Clark Canyon Reservoir	9/15/2016	44.98	-112.865	NC	287	8.5	ND	4	0.015	ND	ND	155	ND	NC	0.5	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01CCYNR06	Clark Canyon Reservoir	9/15/2016	44.989	-112.871	NC	290	11.5	ND	4	0.02	ND	ND	210	0.15	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR03	Clark Canyon Reservoir	8/16/2016	44.98	-112.865	NC	291	7.5	ND	4	ND	ND	ND	130	0.15	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	9/16/2016	44.999	-112.861	NC	292	12	ND	4	ND	ND	ND	190	0.15	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR02	Clark Canyon Reservoir	10/13/2016	44.999	-112.861	NC	292	8	ND	4	ND	ND	ND	110	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR04	Clark Canyon Reservoir	8/16/2016	44.96	-112.862	NC	293	9.5	ND	4	ND	ND	ND	105	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR05	Clark Canyon Reservoir	8/16/2016	44.979	-112.901	NC	304	6	ND	4	ND	ND	ND	100	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01CCYNR04	Clark Canyon Reservoir	9/15/2016	44.96	-112.862	NC	310	14	ND	4	0.18	ND	1.00	210	ND	NC	ND	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01COYCW01	Corral Creek	7/2/2017	45.092	-113.298	NC	52	10	NC	NC	NC	NC	NC	NC	NC	NC	0.22	NC	N
MDEQ_WQ_WQX -M01CORLC30	Corral Creek	6/5/2018	44.61	-111.594	8	80	2.4	12	0.42	ND	0.90	2.00	210	0.1	0.0012	0.1	1	N
MDEQ_WQ_WQX -M01CORLC03	Corral Creek	6/5/2018	44.614	-111.609	13.89	108	4	ND	0.73	ND	0.80	0.40	180	0.08	0.0008	0.1	1	N
MDEQ_WQ_WQX -M01CORLC40	Corral Creek	8/30/2017	44.605	-111.589	1.51	109	9	ND	ND	ND	2.00	ND	210	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01CORLC02	Corral Creek	6/8/2017	44.614	-111.604	13.98	112	2.4	7	1	0.16	0.88	1.00	140	0.3	NC	0.38	1.1	N
MDEQ_WQ_WQX -M01CORLC02	Corral Creek	9/6/2017	44.614	-111.604	1.14	148	0.4	ND	0.78	0.11	0.70	0.43	140	0.23	NC	0.31	1.8	N
MDEQ_WQ_WQX -M01CORLC02	Corral Creek	8/16/2017	44.614	-111.604	5.04	150	1.6	ND	0.64	0.01	0.50	0.22	180	ND	NC	0.13	4.3	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01CORLC02	Corral Creek	7/20/2017	44.614	-111.604	9.045	152	0.8	ND	0.84	ND	0.42	0.41	260	0.023	NC	ND	1.6	N
MDEQ_WQ_WQX -M01CORLC02	Corral Creek	9/29/2016	44.614	-111.604	1.31	155	ND	ND	ND	ND	ND	ND	150	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01ELKLW01	Elk Lake	8/8/2018	44.691	-111.614	NC	70	27	10	NC	NC	NC	NC	NC	NC	NC	0.11	NC	N
MDEQ_WQ_WQX -M01FISHC20	Fish Creek	9/28/2017	44.703	-111.933	0.8	130	13	58	0.77	0.02	0.21	0.84	220	0.3	NC	0.37	3	Y
MDEQ_WQ_WQX -M01FISHC01	Fish Creek	9/28/2017	44.700	-111.910	0.72	131	9	60	0.79	0.03	0.27	0.98	240	0.4	NC	0.33	2.4	Y
MDEQ_WQ_WQX -M01FISHC20	Fish Creek	8/16/2017	44.703	-111.933	0.7	132	10	19	2	0.02	0.17	2.00	250	0.4	NC	0.45	2.7	Y
MDEQ_WQ_WQX -M01FISHC01	Fish Creek	8/24/2017	44.700	-111.910	0.74	133	5	40	1	0.02	0.15	0.68	160	0.1	NC	0.43	2	Y

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01FISHC20	Fish Creek	8/24/2017	44.703	-111.933	0.65	134	5	40	1	0.04	0.20	0.69	180	0.098	NC	0.5	2.4	Y
MDEQ_WQ_WQX -M01FISHC01	Fish Creek	9/7/2017	44.700	-111.910	0.43	134	10	21	2	0.12	0.41	0.90	230	0.6	NC	0.63	3.2	Y
MDEQ_WQ_WQX -M01FISHC01	Fish Creek	7/18/2017	44.700	-111.910	1.2	136	9	15	2	0.02	0.17	0.78	170	0.26	NC	0.33	2.2	Y
MDEQ_WQ_WQX -M01FISHC20	Fish Creek	7/18/2017	44.703	-111.933	1.02	136	12	14	2	0.02	0.17	0.80	190	0.3	NC	0.33	2.9	Y
MDEQ_WQ_WQX -M01FISHC20	Fish Creek	9/7/2017	44.703	-111.933	0.62	136	6	17	2	0.12	0.36	1.00	200	0.5	NC	0.63	2.7	Y
MDEQ_WQ_WQX -M01FISHC01	Fish Creek	8/16/2017	44.700	-111.910	0.98	138	10	16	2	0.02	0.15	0.72	230	0.4	NC	0.38	1.6	Y
MDEQ_WQ_WQX -M01FISHC01	Fish Creek	7/28/2017	44.700	-111.910	0.91	147	24	183	1	0.03	0.32	1.00	430	0.7	NC	0.41	2.7	Y

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01FISHC20	Fish Creek	7/28/2017	44.703	-111.933	0.82	153	18	120	1	0.02	0.31	0.76	350	0.5	NC	0.41	2.4	Y
MDEQ_WQ_WQX -M01FISHC20	Fish Creek	6/6/2017	44.703	-111.933	4.26	153	41	16	2	0.05	0.79	1.00	920	1.2	NC	0.53	4.8	Y
MDEQ_WQ_WQX -M01FISHC01	Fish Creek	9/28/2016	44.700	-111.910	0.63	153	20	23	1	ND	ND	ND	440	0.6	NC	ND	ND	Y
MDEQ_WQ_WQX -M01FISHC01	Fish Creek	6/6/2017	44.700	-111.910	2.25	158	47	21	2	0.05	0.82	2.00	970	1.4	NC	0.63	5.7	Y
MDEQ_WQ_WQX -M01FISHC01	Fish Creek	6/6/2018	44.700	-111.910	4.63	164	44	12	2	0.04	0.70	2.00	860	1.1	7.00E-04	0.75	5	Y
MDEQ_WQ_WQX -M01GLDPW01	Goldstone Pass	7/12/2018	45.143	-113.565	NC	8	2.4	NC	NC	NC	NC	NC	NC	NC	NC	ND	NC	N
MDEQ_WQ_WQX -M01HELRC10	Hell Roaring Creek	6/5/2018	44.609	-111.554	203.6	90	27	15	0.61	ND	2.00	1.00	600	0.3	0.0007	ND	2	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01HELRC03	Hell Roaring Creek	6/5/2018	44.599	-111.556	6.2	92	10	10	0.58	ND	1.00	0.30	380	0.26	ND	0.06	3	N
MDEQ_WQ_WQX -M01HELRC10	Hell Roaring Creek	7/28/2017	44.609	-111.554	14.47	120	2	16	0.52	ND	0.66	0.31	60	0.02 1	NC	0.04	0.8	N
MDEQ_WQ_WQX -M01HELRC10	Hell Roaring Creek	8/24/2017	44.609	-111.554	14.89	120	5	30	0.63	0.01	0.79	0.40	130	0.1	NC	0.06	1	N
MDEQ_WQ_WQX -M01HELRC16	Hell Roaring Creek	8/24/2017	44.6	-111.550	14.35	123	4	29	0.6	0.02	0.78	0.44	90	0.08 1	NC	0.08	1	N
MDEQ_WQ_WQX -M01HELRC16	Hell Roaring Creek	9/28/2017	44.6	-111.550	12.48	123	6	40	0.63	ND	0.90	0.72	150	0.1	NC	0.05	1.8	N
MDEQ_WQ_WQX -M01HELRC16	Hell Roaring Creek	7/28/2017	44.6	-111.550	23.72	124	1.6	8	0.54	ND	0.67	0.24	40	0.5	NC	0.05	ND	N
MDEQ_WQ_WQX -M01HELRC10	Hell Roaring Creek	9/28/2017	44.609	-111.554	12.78	124	5	37	0.61	0.02	0.84	0.49	100	0.07 8	NC	0.11	1.2	N
MDEQ_WQ_WQX -M01HELRC16	Hell Roaring Creek	9/29/2016	44.6	-111.550	8.62	125	ND	ND	ND	ND	ND	ND	30	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC03	Horse Prairie Creek	5/31/2017	45.02	-113.111	430.6	55	9	109	3	0.02	0.49	2.00	480	0.5	0.003	0.12	2.4	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01HRSPC03	Horse Prairie Creek	6/13/2016	45.02	-113.111	65.36	57	9	53	3	ND	ND	ND	490	0.4	NC	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC03	Horse Prairie Creek	7/19/2016	45.02	-113.111	21.64	66	ND	19	3	ND	ND	ND	240	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC03	Horse Prairie Creek	8/9/2016	45.02	-113.111	23.18	67	ND	14	3	ND	ND	ND	260	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	5/24/2017	44.976	-112.923	126.1	120	8	28	4	0.02	0.43	ND	490	0.3	NC	0.23	2.3	N
MDEQ_WQ_WQX -M01HRSPC02	Horse Prairie Creek	7/19/2016	44.977	-113.253	13.12	132	ND	ND	7	ND	ND	ND	200	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	5/27/2016	44.976	-112.923	248.6	134	8.5	16	3	ND	ND	2.00	430	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	9/24/2017	44.976	-112.923	NC	135	6	12	2	0.02	0.35	0.86	380	0.27	NC	0.14	1.3	N
MDEQ_WQ_WQX -M01HRSPC02	Horse Prairie Creek	8/9/2016	44.977	-113.253	9.25	135	ND	ND	6	ND	ND	ND	190	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	6/14/2017	44.976	-112.923	NC	138	6	14	3	0.01	0.30	1.00	320	0.17	NC	0.16	1.6	N
MDEQ_WQ_WQX -M01HRSPC02	Horse Prairie Creek	6/6/2016	44.977	-113.253	13.13	138	16	10	8	ND	ND	1.00	650	0.4	NC	ND	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	7/12/2016	44.976	-112.923	42.22	139	ND	10	3	ND	ND	ND	280	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC02	Horse Prairie Creek	7/31/2015	44.977	-113.253	16.65	139	5	ND	7	ND	ND	ND	310	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	9/26/2016	44.976	-112.923	36.6	141	8	10	3	ND	ND	ND	490	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	10/11/2017	44.976	-112.923	54.6	142	8	5.6	2	ND	0.29	0.60	420	0.26	NC	0.12	2.9	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	6/12/2015	44.976	-112.923	419.8	145	11.5	ND	4	ND	ND	2.00	470	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC02	Horse Prairie Creek	6/11/2015	44.977	-113.253	29.83	149	37.5	33	7	ND	ND	3.00	1140	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	6/7/2016	44.976	-112.923	395.5	151	10	ND	5	ND	ND	ND	480	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	9/15/2016	44.976	-112.923	12	152	10	ND	2	ND	ND	1.00	430	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	6/13/2016	44.976	-112.923	75.08	155	6.5	9	3	ND	ND	ND	310	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	7/26/2017	44.976	-112.923	NC	156	4	8	3	0.02	0.26	0.57	370	0.17	NC	0.14	3.9	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	10/14/2016	44.976	-112.923	44.77	156	11	11	3	ND	ND	ND	510	0.3	NC	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	7/5/2017	44.976	-112.923	NC	163	4	5	3	0.02	0.40	0.89	440	0.28	NC	0.19	4.1	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	7/19/2016	44.976	-112.923	25.36	170	ND	ND	3	ND	ND	1.00	270	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	7/27/2015	44.976	-112.923	15.36	185	1.5	ND	2	ND	ND	ND	200	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	8/8/2016	44.976	-112.923	11.97	202	ND	ND	3	ND	ND	ND	180	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	8/17/2016	44.976	-112.923	3.25	205	ND	ND	3	ND	ND	ND	130	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	8/15/2017	44.976	-112.923	NC	208	4	ND	3	ND	0.16	0.61	210	0.13	NC	0.18	0.8	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	9/9/2017	44.976	-112.923	NC	214	4	4.2	2	ND	0.21	0.63	320	0.2	NC	0.14	1.6	N
MDEQ_WQ_WQX -M01HRSPC01	Horse Prairie Creek	8/27/2017	44.976	-112.923	NC	218	2	1.3	3	ND	0.12	0.69	180	0.093	NC	0.13	0.7	N
MDEQ_WQ_WQX -M01IONSC03	Jones Creek	8/17/2017	44.592	-111.977	0.42	193	2.8	ND	0.52	0.01	0.21	0.38	60	0.029	NC	0.39	4.3	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01JONSC04	Jones Creek	8/18/2017	44.606	-111.995	0.448	249	2.8	ND	0.67	ND	ND	0.30	200	0.032	NC	0.48	0.5	N
MDEQ_WQ_WQX -M01LSHPC01	Little Sheep Creek	7/17/2017	44.707	-112.684	16.78	216	3.2	ND	4	0.02	0.14	0.51	90	0.068	ND	0.16	1.9	N
MDEQ_WQ_WQX -M01LSHPC01	Little Sheep Creek	6/4/2018	44.707	-112.684	11.64	220	3.2	ND	3	ND	0.20	0.70	100	0.08	0.001	0.42	5	N
MDEQ_WQ_WQX -M01LSHPC01	Little Sheep Creek	9/11/2017	44.707	-112.684	22.29	227	2	ND	3	0.03	0.21	0.90	ND	0.11	0.0004	0.44	1.5	N
MDEQ_WQ_WQX -M01LSHPC01	Little Sheep Creek	8/18/2017	44.707	-112.684	12.67	236	1.6	ND	3	0.01	0.08	0.50	50	ND	0.0004	0.39	0.8	N
MDEQ_WQ_WQX -M01LSHPC01	Little Sheep Creek	9/27/2016	44.707	-112.684	2.32	245	<4	ND	3	ND	ND	ND	30	ND	NC	ND	ND	Y
MDEQ_WQ_WQX -M01LSHPC01	Little Sheep Creek	9/27/2016	44.707	-112.684	2.32	245	ND	ND	3	ND	ND	ND	30	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01LSHPC01	Little Sheep Creek	6/5/2017	44.707	-112.684	2.59	246	<4	ND	3	ND	0.15	0.73	14	0.044	0.00	0.46	2	Y
MDEQ_WQ_WQX -M01LSHPC01	Little Sheep Creek	6/5/2017	44.707	-112.684	2.59	246	ND	ND	3	ND	0.15	0.73	14	0.044	0.0005	0.46	2	N
MDEQ_WQ_WQX -M01MEDLC06	Little Sheep Creek	8/10/2016	44.921	-113.022	8.31	246	<4	ND	3	ND	ND	ND	140	ND	ND	ND	ND	Y

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01LSHPC01	Little Sheep Creek	7/30/2015	44.707	-112.684	8.5	255	<4	ND	3	ND	ND	ND	60	ND	ND	ND	ND	Y
MDEQ_WQ_WQX -M01LSHPC01	Little Sheep Creek	8/16/2016	44.707	-112.684	6.9	255	<4	ND	2	ND	ND	ND	60	ND	ND	ND	ND	Y
MDEQ_WQ_WQX -M01LSHPC01	Little Sheep Creek	7/30/2015	44.707	-112.684	8.5	255	ND	ND	3	ND	ND	ND	60	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01LSHPC01	Little Sheep Creek	8/16/2016	44.707	-112.684	6.9	255	ND	ND	2	ND	ND	ND	60	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01LSHPC50	Little Sheep Creek	6/6/2018	44.609	-112.645	16.71	272	82	9	2	0.09	2.00	2.00	1240	1	0.0016	1	9	N
MDEQ_WQ_WQX -M01LSHPC50	Little Sheep Creek	6/5/2017	44.609	-112.645	10.79	292	247	6	3	0.31	6.00	4.00	3340	2.5	0.0043	1	22	N
MDEQ_WQ_WQX -M01LONGC06	Long Creek	8/23/2017	44.638	-112.112	0.99	124	2	15	3	0.02	0.09	0.60	90	0.097	NC	0.33	1.3	N
MDEQ_WQ_WQX -M01LONGC02	Long Creek	9/5/2017	44.657	-112.109	1.29	137	2.4	2.9	2	0.2	0.41	0.85	70	0.5	NC	0.69	2.7	N
MDEQ_WQ_WQX -M01LONGC02	Long Creek	8/17/2017	44.657	-112.109	1.7	146	1.2	ND	1	0.01	ND	0.43	60	0.013	NC	0.32	ND	N
MDEQ_WQ_WQX -M01LONGC06	Long Creek	7/27/2017	44.638	-112.112	2.88	152	1.2	10	2	ND	0.06	0.42	110	0.069	NC	0.29	1.2	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01LONGC02	Long Creek	7/18/2017	44.657	-112.109	3.73	163	1.2	ND	1	0.02	0.05	0.31	80	0.053	NC	0.12	1.5	N
MDEQ_WQ_WQX -M01LONGC30	Long Creek	8/23/2017	44.7	-112.094	2.54	164	0.8	21	1	0.02	0.13	0.67	100	0.28	NC	0.51	2.8	N
MDEQ_WQ_WQX -M01LONGC20	Long Creek	8/23/2017	44.674	-112.106	1.89	166	0.4	8.3	1	0.01	0.06	0.53	50	0.072	NC	0.44	2	N
MDEQ_WQ_WQX -M01LONGC04	Long Creek	8/23/2017	44.714	-112.077	0.65	168	0.4	17	0.85	0.02	0.11	0.55	80	0.11	NC	0.57	1	N
MDEQ_WQ_WQX -M01LONGC04	Long Creek	9/5/2017	44.714	-112.077	2.31	169	0.4	1.4	0.91	0.02	0.06	0.50	80	0.1	NC	0.53	3.9	N
MDEQ_WQ_WQX -M01LONGC04	Long Creek	6/6/2018	44.714	-112.077	35.42	180	14	10	0.83	0.03	0.40	0.80	350	0.3	0.0009	0.6	3	N
MDEQ_WQ_WQX -M01LONGC02	Long Creek	6/6/2017	44.657	-112.109	24.53	184	6	9	1	0.02	0.47	1.00	330	0.28	NC	0.53	1.8	N
MDEQ_WQ_WQX -M01LONGC20	Long Creek	7/27/2017	44.674	-112.106	3.2	186	0.8	ND	1	0.02	0.09	0.48	70	0.046	NC	0.46	0.6	N
MDEQ_WQ_WQX -M01LONGC25	Long Creek	8/23/2017	44.687	-112.102	1.43	186	1.2	19	0.94	0.02	0.09	0.53	100	0.1	NC	0.45	1.1	N
MDEQ_WQ_WQX -M01LONGC04	Long Creek	6/6/2017	44.714	-112.077	27.5	186	19	15	1	0.05	0.80	1.00	530	0.5	NC	0.67	3.1	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01LONGC02	Long Creek	6/6/2018	44.657	-112.109	28.72	188	15	6	1	ND	0.30	0.70	350	0.3	0.0009	0.63	4	N
MDEQ_WQ_WQX -M01LONGC04	Long Creek	8/16/2017	44.714	-112.077	3.99	191	1.2	ND	0.8	0.02	0.07	0.50	70	0.039	NC	0.51	0.6	N
MDEQ_WQ_WQX -M01LONGC30	Long Creek	7/27/2017	44.7	-112.094	6.31	191	1.2	10	0.84	0.02	0.13	0.47	110	0.11	NC	0.58	0.7	N
MDEQ_WQ_WQX -M01LONGC02	Long Creek	9/28/2016	44.657	-112.109	0.88	193	ND	ND	1	ND	ND	ND	120	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01LONGC25	Long Creek	7/27/2017	44.687	-112.102	3.48	194	0.8	12	0.97	0.02	0.08	0.56	100	0.082	NC	0.52	0.9	N
MDEQ_WQ_WQX -M01LONGC04	Long Creek	7/18/2017	44.714	-112.077	7.22	196	2.4	ND	0.84	0.02	0.10	0.39	90	0.086	NC	0.3	1.9	N
MDEQ_WQ_WQX -M01LONGC06	Long Creek	9/27/2017	44.638	-112.112	0.65	200	0.8	4.5	ND	ND	0.08	ND	ND	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01LONGC04	Long Creek	9/27/2017	44.714	-112.077	3.64	200	2.8	18	0.55	0.03	0.23	2.00	80	0.18	NC	0.58	3.4	N
MDEQ_WQ_WQX -M01LONGC04	Long Creek	7/27/2017	44.714	-112.077	6.77	203	0.8	27	0.76	0.02	0.12	0.43	19	0.036	NC	0.57	1.5	N
MDEQ_WQ_WQX -M01LONGC30	Long Creek	9/27/2017	44.7	-112.094	3.1	206	1.6	8.9	0.64	0.02	0.12	0.60	80	0.1	NC	0.67	1	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01LONGC20	Long Creek	9/27/2017	44.674	-112.106	1.84	215	0.4	4.5	0.75	0.01	0.15	0.81	60	0.057	NC	0.56	0.9	N
MDEQ_WQ_WQX -M01LONGC25	Long Creek	9/27/2017	44.687	-112.102	1.76	219	1.2	7.2	0.61	0.02	0.12	0.56	90	0.076	NC	0.56	0.8	N
MDEQ_WQ_WQX -M01MEDLC07	Medicine Lodge Creek	6/1/2017	44.763	-113.028	176.5	71	13	67	3	0.01	0.66	1.00	470	0.3	0.002	0.12	2.2	Y
MDEQ_WQ_WQX -M01MEDLC07	Medicine Lodge Creek	8/15/2016	44.763	-113.028	2.12	89	<4	20	3	ND	ND	ND	160	ND	ND	ND	ND	Y
MDEQ_WQ_WQX -M01MEDLC06	Medicine Lodge Creek	6/13/2016	44.921	-113.022	46.15	186	20	12	4	ND	1.00	1.00	740	0.4	NC	ND	ND	Y
MDEQ_WQ_WQX -M01MEDLC02	Medicine Lodge Creek	5/31/2017	44.871	-113.007	39.77	208	22	10	4	0.02	0.77	2.00	630	0.4	0.001	0.23	4.7	Y
MDEQ_WQ_WQX -M01MEDLC02	Medicine Lodge Creek	8/15/2016	44.871	-113.007	9.73	209	11	ND	3	ND	ND	ND	310	ND	ND	ND	ND	Y
MDEQ_WQ_WQX -M01MEDLC06	Medicine Lodge Creek	7/27/2017	44.921	-113.022	17.36	230	12	62	3	0.02	0.57	1.00	540	0.29	NC	0.35	2	Y
MDEQ_WQ_WQX -M01MEDLC05	Medicine Lodge Creek	7/31/2015	44.986	-112.981	0.2	245	2	ND	6	ND	ND	2.00	260	ND	ND	ND	ND	Y
MDEQ_WQ_WQX -M01MEDLC06	Medicine Lodge Creek	8/23/2017	44.921	-113.022	6.63	265	4	24	3	0.02	0.26	1.00	250	0.17	NC	0.28	2.3	Y

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01MEDLC05	Medicine Lodge Creek	6/6/2016	44.986	-112.981	0.42	272	51	ND	7	0.04	2.00	2.00	1470	0.9	NC	ND	ND	Y
MDEQ_WQ_WQX -M01MEDLC05	Medicine Lodge Creek	7/19/2016	44.986	-112.981	1	280	10	ND	4	ND	ND	1.00	430	0.4	ND	ND	ND	Y
MDEQ_WQ_WQX -M01MEDLC06	Medicine Lodge Creek	9/27/2016	44.921	-113.022	4.18	287	<4	ND	3	ND	ND	5.00	200	ND	ND	ND	ND	Y
MDEQ_WQ_WQX -M01MEDLC06	Medicine Lodge Creek	9/27/2017	44.921	-113.022	14.03	301	10	53	3	0.03	0.44	0.82	350	0.22	NC	0.38	1.9	Y
MDEQ_WQ_WQX -M01MEDLC05	Medicine Lodge Creek	6/10/2015	44.986	-112.981	5.1	312	75.5	ND	6	0.03	ND	4.00	1750	ND	NC	ND	ND	Y
MDEQ_WQ_WQX -M01MTZLC01	Metzel Creek	6/6/2018	44.696	-111.897	4.01	170	41	10	2	0.04	0.70	1.00	850	1	0.0014	0.76	5	Y
MDEQ_WQ_WQX -M01MTZLC03	Metzel Creek	6/7/2017	44.652	-111.893	4.61	172	2.8	ND	9	0.18	0.49	0.84	50	0.4	NC	1	2.1	Y
MDEQ_WQ_WQX -M01MTZLC01	Metzel Creek	7/18/2017	44.696	-111.897	1.41	190	12	10	2	0.02	0.23	0.91	230	0.28	NC	0.66	2.9	Y
MDEQ_WQ_WQX -M01MTZLC01	Metzel Creek	6/6/2017	44.696	-111.897	3.14	196	51	18	2	0.06	1.00	2.00	1160	1.3	NC	0.86	6.3	Y
MDEQ_WQ_WQX -M01MTZLC01	Metzel Creek	8/16/2017	44.696	-111.897	1.47	211	16	13	1	0.03	0.34	0.91	360	0.4	NC	0.95	2.1	Y

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01MTZLC01	Metzel Creek	9/7/2017	44.696	-111.897	1.18	213	33	12	2	0.17	0.73	1.00	620	1	NC	1	4.6	Y
MDEQ_WQ_WQX -M01MTZLC01	Metzel Creek	9/28/2016	44.696	-111.897	1.2	216	23	10	1	ND	ND	ND	550	0.5	NC	ND	ND	Y
MDEQ_WQ_WQX -M01MTZLC03	Metzel Creek	7/18/2017	44.652	-111.893	2.7	219	2.8	ND	11	0.02	0.09	0.37	30	0.048	NC	0.78	1.7	Y
MDEQ_WQ_WQX -M01MTZLC03	Metzel Creek	9/6/2017	44.652	-111.893	2.6	233	6	4.5	13	0.16	0.51	0.86	140	0.5	NC	2	2.7	Y
MDEQ_WQ_WQX -M01MTZLC03	Metzel Creek	8/17/2017	44.652	-111.893	3.87	234	2	ND	11	0.01	0.08	0.28	40	0.018	NC	1	0.7	Y
MDEQ_WQ_WQX -M01MTZLC02	Metzel Creek	10/9/2003	44.731	-111.901	2	309	6.9	NC	14	ND	ND	ND	110	ND	NC	ND	ND	Y
MDEQ_WQ_WQX -M01MUDYC01	Muddy Creek	8/17/2016	44.663	-112.837	0.47	167	4	15	7	ND	ND	ND	180	ND	ND	ND	ND	Y
MDEQ_WQ_WQX -M01MUDYC01	Muddy Creek	9/12/2017	44.663	-112.837	0.56	170	6	16	9	0.02	0.63	0.85	210	0.2	5.00E-04	0.71	4.3	Y
MDEQ_WQ_WQX -M01MUDYC01	Muddy Creek	7/29/2015	44.663	-112.837	0.16	170	5	20	10	ND	ND	1.00	240	ND	ND	1	ND	Y
MDEQ_WQ_WQX -M01MUDYC02	Muddy Creek	6/14/2016	44.694	-112.855	1.18	184	35	19	8	0.03	1.00	2.00	860	0.5	NC	1	ND	Y

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01MUDYC01	Muddy Creek	7/21/2016	44.663	-112.837		185	9	ND	8	ND	ND	ND	210	ND	ND	ND	ND	Y
MDEQ_WQ_WQX -M01MUDYC01	Muddy Creek	8/18/2017	44.663	-112.837	0.86	190	7	18	7	0.02	0.29	0.89	250	0.16	6.00E-04	0.7	1.6	Y
MDEQ_WQ_WQX -M01MUDYC02	Muddy Creek	6/1/2017	44.694	-112.855	2.84	190	14	11	7	0.01	0.52	1.00	400	0.24	6.00E-04	0.65	2.1	Y
MDEQ_WQ_WQX -M01MUDYC02	Muddy Creek	9/12/2017	44.694	-112.855	0.77	191	6	7.1	7	0.02	0.51	0.63	210	0.13	8.00E-04	1	4.6	Y
MDEQ_WQ_WQX -M01MUDYC01	Muddy Creek	6/1/2017	44.663	-112.837	2.33	199	39	21	9	0.03	1.00	2.00	1020	0.7	0.001	0.69	5.8	Y
MDEQ_WQ_WQX -M01MUDYC02	Muddy Creek	8/18/2017	44.694	-112.855	1.02	200	16	13	7	0.01	0.58	1.00	480	0.29	6.00E-04	0.84	2	Y
MDEQ_WQ_WQX -M01MUDYC02	Muddy Creek	7/21/2016	44.694	-112.855	NC	203	52	14	8	ND	ND	1.00	520	0.8	ND	ND	ND	Y
MDEQ_WQ_WQX -M01MUDYC01	Muddy Creek	6/8/2016	44.663	-112.837	1.33	225	223	66	12	0.14	8.00	8.00	5940	3.5	NC	1	32	Y
MDEQ_WQ_WQX -M01MUDYC03	Muddy Creek	9/27/2016	44.635	-112.800	NC	228	49	41	8	0.04	2.00	2.00	1370	0.9	ND	ND	ND	Y
MDEQ_WQ_WQX -M01MUDYC01	Muddy Creek	6/10/2015	44.663	-112.837	0.67	246	43	14	10	0.05	ND	2.00	810	ND	NC	1	ND	Y

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01MUDYC02	Muddy Creek	7/13/2017	44.694	-112.855	1.11	NC	20	10	7	0.02	0.70	1.00	470	0.3	ND	0.75	2.3	Y
MDEQ_WQ_WQX -M01MUDYC01	Muddy Creek	7/13/2017	44.663	-112.837	1.42	NC	12	20	10	0.05	2.00	2.00	360	0.3	ND	0.75	2.3	Y
MDEQ_WQ_WQX -M01NICLC01	Nicholia Creek	6/4/2018	44.547	-112.827	148.8	201	6	3	1	0.03	1.00	1.00	230	0.12	1.60E-03	0.92	2	N
MDEQ_WQ_WQX -M01NICLC01	Nicholia Creek	8/11/2016	44.547	-112.827	1.86	215	ND	ND	1	ND	ND	ND	20	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01NICLC01	Nicholia Creek	8/15/2017	44.547	-112.827	28.15	238	14	ND	1	0.03	2.00	0.91	400	0.17	0.001	1	2.4	N
MDEQ_WQ_WQX -M01NICLC01	Nicholia Creek	6/7/2016	44.547	-112.827	37.44	266	36	ND	2	ND	3.00	1.00	1020	0.4	NC	ND	ND	N
MDEQ_WQ_WQX -M01NICLC01	Nicholia Creek	9/27/2016	44.547	-112.827	9.6	270	8	ND	1	ND	ND	ND	210	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01NICLC01	Nicholia Creek	9/12/2017	44.547	-112.827	2.84	272	2.4	ND	2	0.01	0.55	0.60	120	0.053	0.0007	0.58	3.2	N
MDEQ_WQ_WQX -M01NICLC01	Nicholia Creek	7/29/2015	44.547	-112.827	10.81	283	1.5	ND	2	ND	ND	ND	20	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01NICLC01	Nicholia Creek	6/2/2017	44.547	-112.827	20.69	290	19	ND	2	0.02	2.00	1.00	490	0.24	0.001	0.55	3.2	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01NICLC01	Nicholia Creek	7/22/2016	44.547	-112.827	13.09	292	ND	ND	2	ND	ND	ND	40	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01NICLC01	Nicholia Creek	6/10/2015	44.547	-112.827	49.2	317	16	ND	2	ND	ND	2.00	360	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01NICLC01	Nicholia Creek	7/13/2017	44.547	-112.827	13.28	NC	3.2	ND	2	ND	0.35	0.59	110	0.047	0.0007	0.23	1.3	N
MDEQ_WQ_WQX -M01NICLC30	Nicholia Creek	7/13/2017	44.504	-112.886	7.78	NC	6	4	1	ND	2.00	0.95	330	0.13	0.0008	1	3.1	N
MDEQ_WQ_WQX -M01ODELC01	O Dell Creek	6/5/2018	44.593	-111.789	15.57	77	13	23	0.6	ND	0.60	0.50	260	0.26	0.0012	0.18	2	N
MDEQ_WQ_WQX -M01ODELC01	O Dell Creek	6/8/2017	44.593	-111.789	32.5	77	32	46	1	0.16	1.00	1.00	590	1	NC	0.44	4.3	N
MDEQ_WQ_WQX -M01ODELC01	O Dell Creek	7/19/2017	44.593	-111.789	1.71	79	2	ND	0.74	0.02	0.45	0.10	40	0.05	NC	ND	1.5	N
MDEQ_WQ_WQX -M01ODELC20	O Dell Creek	6/8/2017	44.611	-111.804	251.6	83	49	40	2	0.19	2.00	2.00	830	1.2	NC	0.48	6.6	N
MDEQ_WQ_WQX -M01ODELC01	O Dell Creek	8/17/2017	44.593	-111.789	0.162	93	0.8	ND	0.7	0.01	0.35	0.27	30	ND	NC	0.23	0.5	N
MDEQ_WQ_WQX -M01ODELC20	O Dell Creek	7/19/2017	44.611	-111.804	35.55	93	4	ND	0.94	0.01	0.47	0.19	90	0.08	NC	ND	1.6	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01ODELC01	O Dell Creek	9/29/2016	44.593	-111.789	1.13	93	ND	ND	ND	0.03	ND	ND	90	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01ODELC20	O Dell Creek	6/5/2018	44.611	-111.804	153.3	96	31	16	0.89	0.03	1.00	1.00	710	0.6	0.0006	0.17	4	N
MDEQ_WQ_WQX -M01ODELC20	O Dell Creek	8/17/2017	44.611	-111.804	23.72	111	10	ND	0.92	0.02	0.56	0.39	190	0.14	NC	0.19	6.4	N
MDEQ_WQ_WQX -M01ODELC20	O Dell Creek	9/6/2017	44.611	-111.804	91.8	115	1.2	ND	1	0.18	0.78	0.67	70	0.4	NC	0.55	4.7	N
MDEQ_WQ_WQX -M01PEETC03	Peet Creek	6/7/2017	44.586	-112.065	5.31	113	27	80	2	0.21	1.00	2.00	760	0.9	NC	0.7	4.9	Y
MDEQ_WQ_WQX -M01PEETC35	Peet Creek	9/8/2017	44.610	-112.061	0.74	113	8	17	15	4.31	9.00	16.00	300	8.9	NC	8	40	Y
MDEQ_WQ_WQX -M01PEETC03	Peet Creek	9/8/2017	44.586	-112.065	1.01	115	5	4.9	4	1.04	2.00	3.00	170	2.4	NC	2	11	Y
MDEQ_WQ_WQX -M01PEETC35	Peet Creek	8/17/2017	44.610	-112.061	1.72	116	11	8	6	0.02	0.26	0.64	310	0.22	NC	0.13	2.1	Y
MDEQ_WQ_WQX -M01PEETC03	Peet Creek	8/17/2017	44.586	-112.065	0.97	131	15	ND	2	0.02	0.33	0.64	270	0.23	NC	0.22	2.1	Y
MDEQ_WQ_WQX -M01PEETC03	Peet Creek	6/6/2018	44.586	-112.065	6.83	136	36	39	1	0.04	1.00	1.00	910	0.8	0.001	0.47	6	Y

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01PEETC03	Peet Creek	7/19/2017	44.586	-112.065	3.13	141	11	4	2	0.02	0.34	0.61	210	0.22	NC	0.14	2.8	Y
MDEQ_WQ_WQX -M01PEETC35	Peet Creek	7/19/2017	44.610	-112.061	1.35	161	6	5	2	0.02	0.18	0.51	170	0.14	NC	0.04	1.9	Y
MDEQ_WQ_WQX -M01PRIEC04	Price Creek	6/7/2017	44.545	-112.110	1.64	29	2	ND	2	0.52	2.00	2.00	420	1.1	NC	1	4.1	Y
MDEQ_WQ_WQX -M01PRIEC04	Price Creek	7/19/2017	44.545	-112.110	0.33	41	1.2	38	1	0.01	0.26	0.13	60	0.029	NC	ND	1.4	Y
MDEQ_WQ_WQX -M01PRIEC04	Price Creek	8/15/2017	44.545	-112.110	0.19	43	1.2	20	1	0.01	0.28	0.30	50	ND	NC	0.08	1.1	Y
MDEQ_WQ_WQX -M01PRIEC04	Price Creek	9/8/2017	44.545	-112.110	0.14	43	2.4	22	1	0.11	0.47	0.43	90	0.27	NC	0.23	2	Y
MDEQ_WQ_WQX -M01PRICC01	Price Creek	8/28/2017	44.574	-112.125	0.86	79	24.5	7.8	1.5	0.014	0.37	1.00	615	0.3	NC	0.09	1.85	Y
MDEQ_WQ_WQX -M01PRIEC02	Price Creek	9/11/2017	44.594	-112.131	1.14	87	4	4.5	2	0.03	0.24	0.66	200	0.24	NC	0.09	2.7	Y
MDEQ_WQ_WQX -M01PRICC01	Price Creek	7/12/2012	44.574	-112.125	NC	103	3	10	2	ND	ND	ND	210	ND	NC	ND	ND	Y
MDEQ_WQ_WQX -M01PRICC01	Price Creek	6/23/2012	44.574	-112.125	2.48	103	8	10	2	ND	ND	ND	230	ND	NC	ND	ND	Y

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01PRICC01	Price Creek	7/9/2013	44.574	-112.125	NC	104	23	ND	3	0.04	ND	1.00	630	0.6	NC	ND	ND	Y
MDEQ_WQ_WQX -M01PRIEC02	Price Creek	9/28/2016	44.594	-112.131	0.91	110	8	12	2	ND	ND	ND	300	ND	NC	ND	ND	Y
MDEQ_WQ_WQX -M01PRIEC02	Price Creek	8/15/2017	44.594	-112.131	1.81	116	10	8	1	0.03	0.23	0.79	280	0.2	NC	0.17	1.9	Y
MDEQ_WQ_WQX -M01PRICC01	Price Creek	7/18/2019	44.574	-112.125	3.29	116	9	10	1	ND	0.30	0.90	300	0.19	NC	0.08	4	Y
MDEQ_WQ_WQX -M01PRIEC02	Price Creek	7/19/2017	44.594	-112.131	1.45	125	9	6	1	0.02	0.25	0.75	270	0.18	NC	ND	2.7	Y
MDEQ_WQ_WQX -M01PRIEC02	Price Creek	6/7/2017	44.594	-112.131	5.76	128	27	35	2	0.13	0.92	1.00	740	0.8	NC	0.61	4.8	Y
MDEQ_WQ_WQX -M01PRIEC08	Price Creek	6/7/2017	44.635	-112.152	2.23	257	<4	ND	4	0.16	0.41	0.89	30	0.3	NC	0.62	1.8	Y
MDEQ_WQ_WQX -M01PRIEC08	Price Creek	7/19/2017	44.635	-112.152	0.04	467	42	ND	10	0.08	0.31	2.00	630	0.4	NC	0.28	13	Y
MDEQ_WQ_WQX -M01PRIEC08	Price Creek	8/15/2017	44.635	-112.152	NC	523	145	ND	14	0.12	1.00	3.00	1910	1.4	NC	0.6	18	Y
MDEQ_WQ_WQX -M01PRICC01	Price Creek	7/13/2012	44.574	-112.125	1.19	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	Y

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01RDRKC02	Red Rock Creek	6/8/2017	44.612	-111.611	247.6	107	33	18	1	0.16	2.00	2.00	940	0.8	NC	0.38	3.7	N
MDEQ_WQ_WQX -M01RDRKC01	Red Rock Creek	6/8/2016	44.616	-111.656	101	109	15	17	1	ND	1.00	ND	470	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKC01	Red Rock Creek	6/8/2017	44.616	-111.656	288.9	111	46	25	2	0.21	3.00	2.00	1220	1	NC	0.45	4.4	N
MDEQ_WQ_WQX -M01RDRKC02	Red Rock Creek	6/14/2016	44.612	-111.611	57.99	115	ND	ND	1	ND	ND	ND	130	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKC01	Red Rock Creek	6/9/2015	44.616	-111.656	54	119	8.5	ND	ND	ND	ND	ND	260	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKC60	Red Rock Creek	8/24/2017	44.618	-111.607	27.29	132	2.4	16	0.64	ND	0.64	0.37	90	0.066	NC	0.05	1	N
MDEQ_WQ_WQX -M01RDRKC60	Red Rock Creek	9/28/2017	44.618	-111.607	21.62	136	2.4	25	0.61	ND	0.73	0.64	120	0.11	NC	0.13	1.1	N
MDEQ_WQ_WQX -M01RDRKC40	Red Rock Creek	8/24/2017	44.616	-111.635	40.83	137	2.8	22	0.66	0.01	0.70	0.41	120	0.12	NC	0.08	1.1	N
MDEQ_WQ_WQX -M01RDRKC02	Red Rock Creek	8/16/2017	44.612	-111.611	36.53	138	3.2	ND	0.63	ND	0.65	0.40	140	0.017	NC	0.07	0.6	N
MDEQ_WQ_WQX -M01RDRKC01	Red Rock Creek	7/27/2016	44.616	-111.656	29	138	ND	ND	1	ND	ND	ND	110	ND	NC	ND	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01RDRKC02	Red Rock Creek	7/27/2016	44.612	-111.611	23.48	138	ND	ND	1	ND	ND	ND	110	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKC02	Red Rock Creek	9/6/2017	44.612	-111.611	16.81	139	0.8	ND	0.94	0.16	0.83	0.58	70	0.3	NC	0.34	2.4	N
MDEQ_WQ_WQX -M01RDRKC40	Red Rock Creek	9/28/2017	44.616	-111.635	24.87	141	1.6	13	0.5	0.03	0.70	0.58	80	0.053	NC	0.08	0.8	N
MDEQ_WQ_WQX -M01RDRKC60	Red Rock Creek	7/28/2017	44.618	-111.607	43.06	141	8	42	0.83	0.01	0.84	0.64	260	0.16	NC	0.11	0.9	N
MDEQ_WQ_WQX -M01RDRKC01	Red Rock Creek	7/28/2015	44.616	-111.656	26	141	2.5	ND	1	ND	ND	ND	130	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKC01	Red Rock Creek	8/8/2016	44.616	-111.656	27	142	ND	ND	1	ND	ND	ND	90	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKC02	Red Rock Creek	7/20/2017	44.612	-111.611	39.31	143	10	ND	0.75	0.02	0.80	0.62	290	0.15	NC	ND	2.3	N
MDEQ_WQ_WQX -M01RDRKC01	Red Rock Creek	9/29/2016	44.616	-111.656	16.91	143	ND	ND	ND	ND	ND	ND	160	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKC01	Red Rock Creek	9/6/2017	44.616	-111.656	36.1	145	4	ND	0.89	0.1	0.88	0.59	140	0.28	NC	0.27	1.7	N
MDEQ_WQ_WQX -M01RDRKC40	Red Rock Creek	7/28/2017	44.616	-111.635	53.7	150	7	34	0.67	ND	0.81	0.53	230	0.1	NC	0.06	0.7	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01LRRLW01	Red Rock Lake	7/28/2017	44.645	-111.889	NC	116	38	NC	NC	NC	NC	NC	NC	NC	NC	0.49	NC	N
MDEQ_WQ_WQX -M01LRRLW02	Red Rock Lake	7/27/2017	44.625	-111.856	NC	216	32	NC	NC	NC	NC	NC	NC	NC	NC	0.19	NC	N
MDEQ_WQ_WQX -M01RDRKR07	Red Rock River	7/27/2016	44.644	-111.893	NC	79	22	36	3	ND	ND	1.00	350	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR03	Red Rock River	7/28/2016	44.657	-111.982	372	92	12	33	3	ND	ND	ND	280	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR05	Red Rock River	7/28/2016	44.667	-111.954	34.72	94	12	35	3	ND	ND	ND	290	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR01	Red Rock River	7/26/2016	44.639	-112.136	36.75	98	18	33	6	ND	ND	1.00	360	0.3	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR07	Red Rock River	6/14/2016	44.644	-111.893	70	99	10	22	3	ND	ND	ND	230	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR05	Red Rock River	7/28/2015	44.667	-111.954	25.64	109	8	34	2	ND	ND	ND	250	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR05	Red Rock River	8/10/2016	44.667	-111.954	NC	110	21	50	4	ND	ND	ND	220	0.4	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR07	Red Rock River	8/18/2016	44.644	-111.893	NC	112	52	71	6	ND	1.00	2.00	890	0.7	ND	ND	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01RDRKR07	Red Rock River	6/5/2018	44.644	-111.893	NC	113	9	4	2	ND	0.30	0.60	150	0.15	0.0016	0.11	3	N
MDEQ_WQ_WQX -M01RDRKR03	Red Rock River	6/6/2017	44.657	-111.982	924.6	117	25	11	3	ND	0.70	1.00	410	0.3	0.0015	0.18	3.4	N
MDEQ_WQ_WQX -M01RDRKR03	Red Rock River	6/14/2016	44.657	-111.982	626	119	33	16	4	ND	1.00	1.00	600	0.5	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR05	Red Rock River	6/9/2016	44.667	-111.954	578	121	10	ND	4	ND	ND	ND	160	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR05	Red Rock River	6/9/2015	44.667	-111.954	55.61	129	15.5	9	5	ND	ND	1.00	200	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR07	Red Rock River	9/29/2016	44.644	-111.893	NC	131	53	55	4	ND	1.00	1.00	870	0.6	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR07	Red Rock River	6/5/2017	44.644	-111.893	721.1	133	18	7	4	ND	0.44	1.00	260	0.27	0.0016	0.17	2.8	N
MDEQ_WQ_WQX -M01RDRRW01	Red Rock River	7/31/2017	44.646	-111.939	NC	133	9	NC	NC	NC	NC	NC	NC	NC	NC	0.29	NC	N
MDEQ_WQ_WQX -M01RDRKR01	Red Rock River	6/14/2016	44.639	-112.136	651	139	33	12	5	ND	ND	1.00	550	0.5	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR01	Red Rock River	6/6/2017	44.639	-112.136	1354	144	32	11	4	0.02	0.95	1.00	620	0.5	0.0013	0.27	3.1	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01RDRKR05	Red Rock River	9/29/2016	44.667	-111.954	NC	158	72	49	5	ND	2.00	2.00	1450	1	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR04	Red Rock River	6/7/2016	44.656	-112.371	602	170	ND	34	5	ND	ND	1.00	120	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR04	Red Rock River	7/30/2015	44.656	-112.371	284	170	10	78	8	0.04	ND	3.00	1620	1	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR04	Red Rock River	6/8/2015	44.656	-112.371	634	180	1.5	ND	4	ND	ND	2.00	70	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR04	Red Rock River	7/26/2016	44.656	-112.371	368	181	5	41	6	ND	ND	2.00	460	0.3	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR04	Red Rock River	8/11/2016	44.656	-112.371	426	183	8	38	6	ND	ND	2.00	530	0.4	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR09	Red Rock River	7/20/2016	44.641	-112.571	NC	184	14	37	6	0.03	ND	1.00	420	0.3	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR09	Red Rock River	6/1/2017	44.641	-112.571	904.4	187	53	24	4	0.04	1.00	2.00	910	0.7	0.001	0.43	4.6	N
MDEQ_WQ_WQX -M01RDRKR09	Red Rock River	6/7/2016	44.641	-112.571	NC	189	27	17	5	ND	ND	1.00	550	0.4	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR08	Red Rock River	7/21/2016	44.77	-112.718	NC	227	6	ND	3	ND	ND	ND	110	ND	ND	ND	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01RDRKR08	Red Rock River	6/7/2016	44.77	-112.718	NC	228	115	12	5	0.07	4.00	2.00	1800	1.1	NC	ND	10	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	6/4/2018	44.915	-112.827	384.9	229	24	ND	3	ND	2.00	1.00	450	0.4	0.002	0.51	5	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	6/9/2016	44.915	-112.827	NC	240	17	ND	3	ND	ND	ND	170	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	8/10/2016	44.915	-112.827	117.5	252	5	ND	2	ND	ND	ND	60	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	8/15/2016	44.915	-112.827	105	254	6	ND	2	ND	ND	ND	60	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	7/20/2016	44.915	-112.827	NC	261	8	ND	3	ND	ND	ND	100	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	6/13/2016	44.915	-112.827	NC	262	8	ND	2	ND	ND	ND	100	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	10/11/2017	44.915	-112.827	200	264	7	ND	2	0.01	0.39	0.38	110	0.14	NC	0.6	1.5	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	9/14/2016	44.915	-112.827	103.1	265	ND	ND	2	ND	ND	ND	40	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	7/5/2017	44.915	-112.827	NC	267	8	5	3	0.02	0.55	0.87	120	0.11	NC	0.52	1.3	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	6/12/2015	44.915	-112.827	98.6	271	10.5	ND	3	ND	ND	1.00	90	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	8/23/2017	44.915	-112.827	104.2	273	4	34	2	0.01	0.30	0.40	40	0.059	NC	0.49	1.6	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	7/26/2017	44.915	-112.827	NC	274	2.8	ND	2	0.01	0.43	0.13	60	0.029	NC	0.66	1.1	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	9/24/2017	44.915	-112.827	NC	275	10	ND	2	0.02	0.52	0.48	110	0.13	NC	0.65	ND	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	6/15/2017	44.915	-112.827	NC	276	13	ND	3	0.01	0.76	0.69	260	0.19	NC	0.72	2.6	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	10/14/2016	44.915	-112.827	NC	276	10	ND	2	ND	ND	ND	80	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	5/27/2016	44.915	-112.827	NC	277	13	ND	2	ND	ND	1.00	90	ND	NC	1	ND	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	9/27/2017	44.915	-112.827	225.4	279	13	NC	2	0.01	0.59	0.68	160	0.15	NC	0.61	1.6	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	8/27/2017	44.915	-112.827	NC	281	5	ND	2	0.01	0.35	0.49	70	0.064	NC	0.49	0.9	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	8/1/2015	44.915	-112.827	134.5	281	6	ND	2	ND	ND	ND	70	ND	ND	1	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	7/11/2016	44.915	-112.827	NC	281	11	ND	3	ND	ND	ND	100	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	5/24/2017	44.915	-112.827	NC	284	11	ND	2	0.01	0.89	0.86	150	0.15	NC	0.85	1.6	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	9/9/2017	44.915	-112.827	NC	288	8	1	3	0.026	0.47	1.00	170	0.9	NC	0.46	5.7	N
MDEQ_WQ_WQX -M01RDRKR06	Red Rock River	8/15/2017	44.915	-112.827	NC	296	5	ND	2	0.03	0.44	0.45	80	0.1	NC	0.64	0.6	N
MDEQ_WQ_WQX -M01SAGEC50	Sage Creek	6/7/2017	44.796	-112.555	32.05	111	9	11	4	0.24	1.00	2.00	390	0.7	0.001	0.71	2.3	N
MDEQ_WQ_WQX -M01SAGEC50	Sage Creek	9/11/2017	44.796	-112.555	2.27	125	0.8	ND	3	0.01	0.26	0.83	60	0.094	0.0004	0.09	1.4	N
MDEQ_WQ_WQX -M01SAGEC50	Sage Creek	8/15/2017	44.796	-112.555	5.96	126	1.2	ND	3	0.01	0.18	0.57	90	ND	0.0004	0.11	5.4	N
MDEQ_WQ_WQX -M01SAGEC01	Sage Creek	6/9/2016	44.749	-112.559	15.9	137	ND	ND	7	ND	ND	ND	200	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01SAGEC01	Sage Creek	7/30/2015	44.749	-112.559	5.55	145	5	ND	6	ND	ND	ND	40	ND	ND	ND	ND	N
MDEQ_WQ_WQX -M01SAGEC01	Sage Creek	8/11/2016	44.749	-112.559	6.28	148	ND	ND	5	ND	ND	ND	60	ND	NC	ND	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01SAGEC01	Sage Creek	8/15/2017	44.749	-112.559	9.58	150	4	ND	5	ND	0.21	0.52	100	0.017	0.0004	0.23	0.7	N
MDEQ_WQ_WQX -M01SAGEC01	Sage Creek	9/11/2017	44.749	-112.559	36.21	151	0.4	ND	6	0.02	0.33	0.90	ND	0.16	ND	0.28	1.5	N
MDEQ_WQ_WQX -M01SAGEC01	Sage Creek	6/11/2015	44.749	-112.559	36.2	153	4.5	ND	6	ND	ND	2.00	150	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01SAGEC01	Sage Creek	9/30/2016	44.749	-112.559	6.14	155	ND	ND	4	ND	ND	ND	130	ND	NC	ND	ND	N
MDEQ_WQ_WQX -M01SAGEC02	Sage Creek	6/1/2017	44.754	-112.702	12.08	212	21	10	4	0.02	0.66	2.00	430	0.3	0.001	0.45	2.6	N
MDEQ_WQ_WQX -M01SAGEC02	Sage Creek	9/11/2017	44.754	-112.702	4.74	244	4	ND	5	0.03	0.33	ND	140	0.17	0.0011	0.18	1.5	N
MDEQ_WQ_WQX -M01SAGEC02	Sage Creek	8/15/2017	44.754	-112.702	5.48	256	5	ND	5	0.01	0.20	1.00	120	0.046	0.0013	0.26	1.2	N
MDEQ_WQ_WQX -M01SAGEC50	Sage Creek	7/12/2017	44.796	-112.555	8.3	NC	1.2	ND	4	ND	0.19	0.79	80	0.032	ND	0.1	0.9	N
MDEQ_WQ_WQX -M01SAGEC01	Sage Creek	7/12/2017	44.749	-112.559	12.28	NC	2.8	ND	5	0.02	0.28	0.75	90	0.068	ND	0.21	3.5	N
MDEQ_WQ_WQX -M01SAGEC02	Sage Creek	7/12/2017	44.754	-112.702	7.9	NC	6	ND	5	ND	0.43	1.00	130	0.15	0.0008	0.21	1.5	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX-M01LSHPC01	Sheep Creek	7/17/2017	44.707	-112.684	16.78	216	3.2	ND	4	0.02	0.14	0.51	90	0.068	ND	0.16	1.9	Y
MDEQ_WQ_WQX-M01LSHPC01	Sheep Creek	6/4/2018	44.707	-112.684	11.64	220	3.2	ND	3	ND	0.20	0.70	100	0.08	0.001	0.42	5	Y
MDEQ_WQ_WQX-M01LSHPC01	Sheep Creek	9/11/2017	44.707	-112.684	22.29	227	2	ND	3	0.03	0.21	0.90	ND	0.11	4.00E-04	0.44	1.5	Y
MDEQ_WQ_WQX-M01LSHPC01	Sheep Creek	8/18/2017	44.707	-112.684	12.67	236	1.6	ND	3	0.01	0.08	0.50	50	ND	4.00E-04	0.39	0.8	Y
MDEQ_WQ_WQX-M01LSHPC50	Sheep Creek	6/6/2018	44.609	-112.645	16.71	272	82	9	2	0.09	2.00	2.00	1240	1	0.0016	1	9	Y
MDEQ_WQ_WQX-M01LSHPC50	Sheep Creek	6/5/2017	44.609	-112.645	10.79	292	247	6	3	0.31	6.00	4.00	3340	2.5	0.0043	1	22	Y
MDEQ_WQ_WQX-M01TOMC01	Tom Creek	6/8/2017	44.59	-111.669	18.26	110	26	34	1	0.22	2.00	2.00	680	1.1	NC	0.41	5.1	N
MDEQ_WQ_WQX-M01TOMC01	Tom Creek	7/19/2017	44.59	-111.669	2.11	141	33	6	0.64	0.06	1.00	2.00	790	0.9	NC	ND	5.9	N
MDEQ_WQ_WQX-M01TOMC01	Tom Creek	9/6/2017	44.59	-111.669	1.52	148	2	1.4	0.27	0.02	0.28	0.31	50	0.067	NC	0.11	1.5	N
MDEQ_WQ_WQX-M01TOMC01	Tom Creek	9/29/2016	44.59	-111.669	0.73	150	5	ND	ND	ND	ND	ND	160	ND	NC	ND	ND	N

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01TOMC01	Tom Creek	8/17/2017	44.59	-111.669	2.32	156	10	ND	0.29	0.03	0.54	0.49	210	0.21	NC	0.1	1.8	N
MDEQ_WQ_WQX -M01TRALC60	Trail Creek	6/7/2018	44.955	-113.386	29.68	26	7	85	1	ND	0.50	0.90	330	0.18	NC	0.07	2	Y
MDEQ_WQ_WQX -M01TRALC60	Trail Creek	5/31/2017	44.955	-113.386	38.16	26	7	141	1	ND	0.64	1.00	410	0.22	0.004	0.11	2.5	Y
MDEQ_WQ_WQX -M01TRALC40	Trail Creek	5/31/2017	44.963	-113.335	118.6	30	18	112	1	0.01	1.00	2.00	550	0.3	0.004	0.12	3.8	Y
MDEQ_WQ_WQX -M01TRALC25	Trail Creek	6/7/2018	44.982	-113.307	55.96	32	11	74	1	ND	0.70	1.00	390	0.26	0.0024	0.12	3	Y
MDEQ_WQ_WQX -M01TRALC25	Trail Creek	5/31/2017	44.982	-113.307	77.78	33	38	107	1	0.01	2.00	2.00	940	0.5	0.006	0.14	3.6	Y
MDEQ_WQ_WQX -M01TRALC60	Trail Creek	9/14/2017	44.955	-113.386	2.29	40	1.6	19	ND	0.01	ND	ND	ND	ND	0.001	ND	ND	Y
MDEQ_WQ_WQX -M01TRALC60	Trail Creek	8/14/2017	44.955	-113.386	2.84	43	9	29	1	0.02	0.34	0.81	300	0.14	0.0018	0.08	1.2	Y
MDEQ_WQ_WQX -M01TRALC25	Trail Creek	8/14/2017	44.982	-113.307	12.59	47	8	21	1	0.02	0.36	0.86	240	0.15	0.0015	0.09	1	Y
MDEQ_WQ_WQX -M01TRALC40	Trail Creek	9/14/2017	44.963	-113.335	5.11	49	0.4	10	1	0.01	0.45	0.55	90	0.12	8.00E-04	0.38	2.6	Y

Table B-3. Metals Water Quality Data used in Assessments and Development of TMDL Allocations

Monitoring Location- Identifier	Sub-watershed	Date	Latitude	Longitude	Flow	Hardness (mg/L)	TSS (mg/L)	Aluminum (µg/L)	Arsenic (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Mercury (µg/L)	Selenium (µg/L)	Zinc (µg/L)	TMDL Written (Y or N)
MDEQ_WQ_WQX -M01TRALC25	Trail Creek	9/14/2017	44.982	-113.307	3.51	50	0.4	11	1	0.02	0.41	0.99	80	0.051	NC	0.32	2.5	Y
MDEQ_WQ_WQX -M01TRALC40	Trail Creek	8/14/2017	44.963	-113.335	11.63	53	4	30	2	0.01	0.32	0.87	220	0.12	0.0014	0.09	1	Y
MDEQ_WQ_WQX -M01TRALC25	Trail Creek	7/10/2017	44.982	-113.307	4.61	NC	2.8	21	1	ND	0.29	0.95	170	0.07	0.0013	0.04	1.1	Y
MDEQ_WQ_WQX -M01TRALC40	Trail Creek	7/10/2017	44.963	-113.335	16.1	NC	6	22	1	ND	0.35	2.00	220	0.099	0.0014	0.03	1.4	Y
MDEQ_WQ_WQX -M01TRALC60	Trail Creek	7/10/2017	44.955	-113.386	3.69	NC	13	54	2	ND	0.51	1.00	420	0.2	0.0023	0.04	1.7	Y

ND=Not Detected (below detection limit); NC=Not Collected

B2.1 SEDIMENT

B2.1.1 SEDIMENT DATA FOR DETERMINATION OF E CHANNEL TARGETS

The following table describes data at sites used to estimate reference conditions at E channels. All other targets were based on DEQ's standard sediment targets for the Middle Rockies. All are E channels, except for BLDK17-01, which is a C channel that meets all of the requirements of an E channel (sinuosity > 1.5 and mean entrenchment ratio > 2.2), with the exception of mean width/depth ratio < 12. However, all but one cross-section sampled had a width/depth ratio < 12.

Table B-4. Sediment Data used for E channel Targets

SiteID	Location	Rationale	Latitude	Longitude	Mean Riffle % <2mm	Mean Riffle % <6mm	Mean Pool % <6mm
ECLV07-01a	Red Rock Watershed	Upstream from sediment effects	41.714	-112.252	10	13	13
BFRD07-01	Madison Watershed	Not impaired for sediment	44.756	-111.856	16	21	10
BLDK1701a	Red Rock Watershed	Not impaired for sediment	44.995	-113.314	14	19	1
MO1PRICC01	Red Rock Watershed	Upstream of sediment effects; DEQ reference site			43	49	49
75th Percentile Target					23	28	22

B3.1 E. COLI

B3.1.1 E COLI WATER QUALITY DATA

Table B-5. *E. coli* Water Quality Data used in Assessments and Development of TMDL Allocations.

AUID	Waterbody Name	Date	Station ID	Station Location	E. coli Result Value (cfu/100ml) (BOLD=Exceeds standard of 262)	30 day geometric mean (cfu/100 mL)	Listing Result
MT41A003_150	Big Sheep Creek	7/18/2017	M01BIGSC01	Big Sheep Creek about 1.5 miles upstream from mouth	2419.6	225	Insufficient Evidence
	Big Sheep Creek	7/19/2017	M01BIGSC01	Big Sheep Creek about 1.5 miles upstream from mouth	686.7		
	Big Sheep Creek	7/18/2017	M01BIGSC02	Big Sheep Creek downstream from Nicolia Creek confluence	201.4		
	Big Sheep Creek	7/19/2017	M01BIGSC02	Big Sheep Creek downstream from Nicolia Creek confluence	142.1		
	Big Sheep Creek	7/18/2017	M01SHEPC01	Sheep Creek upstream	42.2		
	Big Sheep Creek	7/19/2017	M01SHEPC01	Sheep Creek upstream	64.4		
MT41A003_100	Bloody Dick Creek	7/11/2017	M01BDYDC07	Bloody Dick Creek	410.6	269	Insufficient Evidence
	Bloody Dick Creek	7/12/2017	M01BDYDC07	Bloody Dick Creek	248.9		
	Bloody Dick Creek	7/14/2017	M01BDYDC07	Bloody Dick Creek	231		
	Bloody Dick Creek	7/11/2017	M01BDYDC01	Bloody Dick Creek downstream of Kitty Creek (upstream site)	344.8		
	Bloody Dick Creek	7/12/2017	M01BDYDC01	Bloody Dick Creek downstream of Kitty Creek (upstream site)	172.3		

Table B-5. *E. coli* Water Quality Data used in Assessments and Development of TMDL Allocations.

AUID	Waterbody Name	Date	Station ID	Station Location	E. coli Result Value (cfu/100ml) (BOLD=Exceeds standard of 262)	30 day geometric mean (cfu/100 mL)	Listing Result
MT41A004_040	Corral Crk	7/10/2017	M01CORLC02	Corral Creek 0.25 mile upstream from mouth	261.3	Insufficient Data	Insufficient Evidence
	Corral Crk	7/20/2017	M01CORLC02	Corral Creek 0.25 mile upstream from mouth	69.7		
	Corral Crk	7/20/2017	M01CORLC02	Corral Creek 0.25 mile upstream from mouth	69.7	67	Insufficient Evidence
	Corral Crk	8/15/2017	M01CORLC02	Corral Creek 0.25 mile upstream from mouth	72.3		
	Corral Crk	8/16/2017	M01CORLC02	Corral Creek 0.25 mile upstream from mouth	38.3		
	Corral Crk	8/17/2017	M01CORLC05	Corral Creek about 1/2 mile upstream of mouth	37.9		
	Corral Crk	8/17/2017	M01CORLC03	Corral Creek near mouth	42.8		
MT41A003_090	Horse Prairie Crk	7/11/2017	M01HRSPC02	Horse Prairie Creek at Lemhi Pass Road crossing	1203.3	607	List: Overwhelming Evidence
	Horse Prairie Crk	7/11/2017	M01HRSPC03	Horse Prairie Creek at Mansfield Lane crossing	980.4		
	Horse Prairie Crk	7/11/2017	M01HRSPC01	Horse Prairie Creek at mouth to Clark Canyon Reservoir	461.1		
	Horse Prairie Crk	7/12/2017	M01HRSPC02	Horse Prairie Creek at Lemhi Pass Road crossing	866.4		
	Horse Prairie Crk	7/12/2017	M01HRSPC03	Horse Prairie Creek at Mansfield Lane crossing	613.1		
	Horse Prairie Crk	7/12/2017	M01HRSPC01	Horse Prairie Creek at mouth to Clark Canyon Reservoir	260.3		
	Horse Prairie Crk	7/14/2017	M01HRSPC02	Horse Prairie Creek at Lemhi Pass Road crossing	1299.7		
	Horse Prairie Crk	7/14/2017	M01HRSPC03	Horse Prairie Creek at Mansfield Lane crossing	198.1		
	Horse Prairie Crk	7/14/2017	M01HRSPC01	Horse Prairie Creek at mouth to Clark Canyon Reservoir	579.4		

Table B-5. *E. coli* Water Quality Data used in Assessments and Development of TMDL Allocations.

AUID	Waterbody Name	Date	Station ID	Station Location	E. coli Result Value (cfu/100ml) (BOLD=Exceeds standard of 262)	30 day geometric mean (cfu/100 mL)	Listing Result
MT41A004_070	Long Creek	7/12/2017	M01LONGC02	Long Creek 1/2 mile upstream from county road	41	215	Insufficient Evidence
	Long Creek	7/13/2017	M01LONGC02	Long Creek 1/2 mile upstream from county road	17.3		
	Long Creek	7/17/2017	M01LONGC02	Long Creek 1/2 mile upstream from county road	187.2		
	Long Creek	7/12/2017	M01LONGC04	Long Creek at Ruby Divide Road crossing	488.4		
	Long Creek	7/13/2017	M01LONGC04	Long Creek at Ruby Divide Road crossing	488.4		
	Long Creek	7/17/2017	M01LONGC04	Long Creek at Ruby Divide Road crossing	517.2		
MT41A003_010	Medicine Lodge Creek	7/11/2017	M01MEDLC02	Medicine Lodge Creek about 10 miles from Road 3	1299.7	1447	List: Overwhelming Evidence
	Medicine Lodge Creek	7/12/2017	M01MEDLC02	Medicine Lodge Creek about 10 miles from Road 3	727		
	Medicine Lodge Creek	7/14/2017	M01MEDLC02	Medicine Lodge Creek about 10 miles from Road 3	1986.3		
	Medicine Lodge Creek	7/11/2017	M01MEDLC05	Medicine Lodge Creek at Medicine Lodge Road crossing	2419.6		
	Medicine Lodge Creek	7/12/2017	M01MEDLC05	Medicine Lodge Creek at Medicine Lodge Road crossing	1299.7		
	Medicine Lodge Creek	7/14/2017	M01MEDLC05	Medicine Lodge Creek at Medicine Lodge Road crossing	1553.1		

Table B-5. *E. coli* Water Quality Data used in Assessments and Development of TMDL Allocations.

AUID	Waterbody Name	Date	Station ID	Station Location	E. coli Result Value (cfu/100ml) (BOLD=Exceeds standard of 262)	30 day geometric mean (cfu/100 mL)	Listing Result
MT41A003_020	Muddy Creek	7/18/2017	M01MUDYC01	Muddy Creek	39.5	38	Insufficient Evidence
	Muddy Creek	7/19/2017	M01MUDYC01	Muddy Creek	20.1		
	Muddy Creek	7/20/2017	M01MUDYC01	Muddy Creek	16		
	Muddy Creek	7/18/2017	M01MUDYC02	Muddy Creek upper site on BLM, off Muddy Creek Road	73.3		
	Muddy Creek	7/19/2017	M01MUDYC02	Muddy Creek upper site on BLM, off Muddy Creek Road	53.8		
	Muddy Creek	7/20/2017	M01MUDYC02	Muddy Creek upper site on BLM, off Muddy Creek Road	60.2		
MT41A003_040	Nicholia Creek	7/18/2017	M01NICLC01	Nicholia Creek near mouth	32.3	Insufficient Data	Insufficient Evidence
	Nicholia Crk	7/19/2017	M01NICLC01	Nicholia Creek near mouth	35.5		
MT41A004_080	O Dell Creek	7/10/2017	M01ODELC01	O'Dell Creek just downstream Hwy 509 crossing	16.1	27	DO NOT LIST
	O Dell Creek	7/19/2017	M01ODELC01	O'Dell Creek just downstream Hwy 509 crossing	104.6		
	O Dell Creek	7/19/2017	M01ODELC01	O'Dell Creek just downstream Hwy 509 crossing	104.6		
	O Dell Creek	8/14/2017	M01ODELC01	O'Dell Creek just downstream Hwy 509 crossing	64.4		
	O Dell Creek	8/15/2017	M01ODELC01	O'Dell Creek just downstream Hwy 509 crossing	22.3		
	O Dell Creek	8/16/2017	M01ODELC20	O'Dell Creek downstream Shambow Creek	20.1		
	O Dell Creek	8/16/2017	M01ODELC01	O'Dell Creek just downstream Hwy 509 crossing	6.3		
	O Dell Creek	8/17/2017	M01ODELC20	O'Dell Creek downstream Shambow Creek	40.3		
	O Dell Creek	8/17/2017	M01ODELC01	O'Dell Creek just downstream Hwy 509 crossing	13.5		

Table B-5. *E. coli* Water Quality Data used in Assessments and Development of TMDL Allocations.

AUID	Waterbody Name	Date	Station ID	Station Location	E. coli Result Value (cfu/100ml) (BOLD=Exceeds standard of 262)	30 day geometric mean (cfu/100 mL)	Listing Result
MT41A004_090	Peet Creek	7/10/2017	M01PEETC03	Peet Creek upstream of county road crossing	18.9	Insufficient Data	List: Overwhelming Evidence
	Peet Creek	7/19/2017	M01PEETC03	Peet Creek upstream of county road crossing	648.8		
	Peet Creek	7/19/2017	M01PEETC03	Peet Creek upstream of county road crossing	648.8	569	
	Peet Creek	8/14/2017	M01PEETC03	Peet Creek upstream of county road crossing	829.7		
	Peet Creek	8/15/2017	M01PEETC03	Peet Creek upstream of county road crossing	186		
	Peet Creek	8/16/2017	M01PEETC03	Peet Creek upstream of county road crossing	1203.3		
	Peet Creek	8/17/2017	M01PEETC03	Peet Creek upstream of county road crossing	920.8		
	Peet Creek	8/18/2017	M01PEETC03	Peet Creek upstream of county road crossing	307.6		
MT41A004_110	Red Rock Crk	7/10/2017	M01RDRKC02	Red Rock Creek downstream Corral Creek	121.1	Insufficient Data	Insufficient Evidence
	Red Rock Crk	7/10/2017	M01RDRKC01	Red Rock Creek near Elk Lake Rd crossing at USGS gage	111.9		
	Red Rock Crk	7/20/2017	M01RDRKC02	Red Rock Creek downstream Corral Creek	106.3		
	Red Rock Crk	7/20/2017	M01RDRKC01	Red Rock Creek near Elk Lake Rd crossing at USGS gage	131.4		
	Red Rock Crk	7/20/2017	M01RDRKC02	Red Rock Creek downstream Corral Creek	106.3	109.17	
	Red Rock Crk	7/20/2017	M01RDRKC01	Red Rock Creek near Elk Lake Rd crossing at USGS gage	131.4		
	Red Rock Crk	8/16/2017	M01RDRKC02	Red Rock Creek downstream Corral Creek	86		
	Red Rock Crk	8/16/2017	M01RDRKC01	Red Rock Creek near Elk Lake Rd crossing at USGS gage	93.4		
	Red Rock Crk	8/17/2017	M01RDRKC02	Red Rock Creek downstream Corral Creek	19.5		
	Red Rock Crk	8/17/2017	M01RDRKC01	Red Rock Creek near Elk Lake Rd crossing at USGS gage	32.7		

Table B-5. *E. coli* Water Quality Data used in Assessments and Development of TMDL Allocations.

AUID	Waterbody Name	Date	Station ID	Station Location	<i>E. coli</i> Result Value (cfu/100ml) (BOLD=Exceeds standard of 262)	30 day geometric mean (cfu/100 mL)	Listing Result
MT41A001_010	Red Rock River	7/11/2017	M01RDRKR06	Red Rock River at Lima, MT USGS gage off Lima Road	93.4	29.08	Do Not LIST
	Red Rock River	7/12/2017	M01RDRKR04	Red Rock River at Lima, MT USGS gage off Lima Road	<1		
	Red Rock River	7/12/2017	M01RDRKR09	Red Rock River at Lima, MT USGS gage off Lima Road	160.7		
	Red Rock River	7/12/2017	M01RDRKR06	Red Rock River downstream I-15 crossing	71.7		
	Red Rock River	7/13/2017	M01RDRKR04	Red Rock River downstream I-15 crossing	3.1		
	Red Rock River	7/13/2017	M01RDRKR09	Red Rock River downstream I-15 crossing	93.3		
	Red Rock River	7/14/2017	M01RDRKR06	Red Rock River just below Lima Reservoir at USGS gage	93.3		
	Red Rock River	7/17/2017	M01RDRKR04	Red Rock River just below Lima Reservoir at USGS gage	5.2		
	Red Rock River	7/17/2017	M01RDRKR09	Red Rock River just below Lima Reservoir at USGS gage	98.5		

Table B-5. *E. coli* Water Quality Data used in Assessments and Development of TMDL Allocations.

AUID	Waterbody Name	Date	Station ID	Station Location	E. coli Result Value (cfu/100ml) (BOLD=Exceeds standard of 262)	30 day geometric mean (cfu/100 mL)	Listing Result
MT41A001_020	Red Rock River	7/12/2017	M01RDRKR01	Red Rock River lower site near Lyons Bridge	112.6	36.4	List: Seasonal Approach
	Red Rock River	7/13/2017	M01RDRKR01	Red Rock River lower site near Lyons Bridge	73.8		
	Red Rock River	7/17/2017	M01RDRKR01	Red Rock River lower site near Lyons Bridge	344.8		
	Red Rock River	8/15/2017	M01RDRKR05	Red Rock River	25		
	Red Rock River	8/15/2017	M01RDRKR01	Red Rock River lower site near Lyons Bridge	184.2		
	Red Rock River	8/15/2017	M01RDRKR07	Red Rock River at USGS gage near Lakeview	2		
	Red Rock River	8/16/2017	M01RDRKR05	Red Rock River	74.4		
	Red Rock River	8/16/2017	M01RDRKR01	Red Rock River lower site near Lyons Bridge	260.3		
	Red Rock River	8/16/2017	M01RDRKR07	Red Rock River at USGS gage near Lakeview	1		
	Red Rock River	8/17/2017	M01RDRKR01	Red Rock River lower site near Lyons Bridge	290.9		
	Red Rock River	8/17/2017	M01RDRKR07	Red Rock River at USGS gage near Lakeview	1		
MT41A003_140	Sage Creek	7/17/2017	M01SAGEC01	Sage Creek	63.7	97.18	Insufficient Evidence
	Sage Creek	7/18/2017	M01SAGEC01	Sage Creek	54.8		
	Sage Creek	7/17/2017	M01SAGEC02	Sage Creek at Bimat Lane crossing	42.6		
	Sage Creek	7/18/2017	M01SAGEC02	Sage Creek at Bimat Lane crossing	31.8		
	Sage Creek	7/17/2017	M01SAGEC50	Sage Creek upstream Little Sage Creek confluence at road crossing	579.4		