Appendix A-2
Region 2

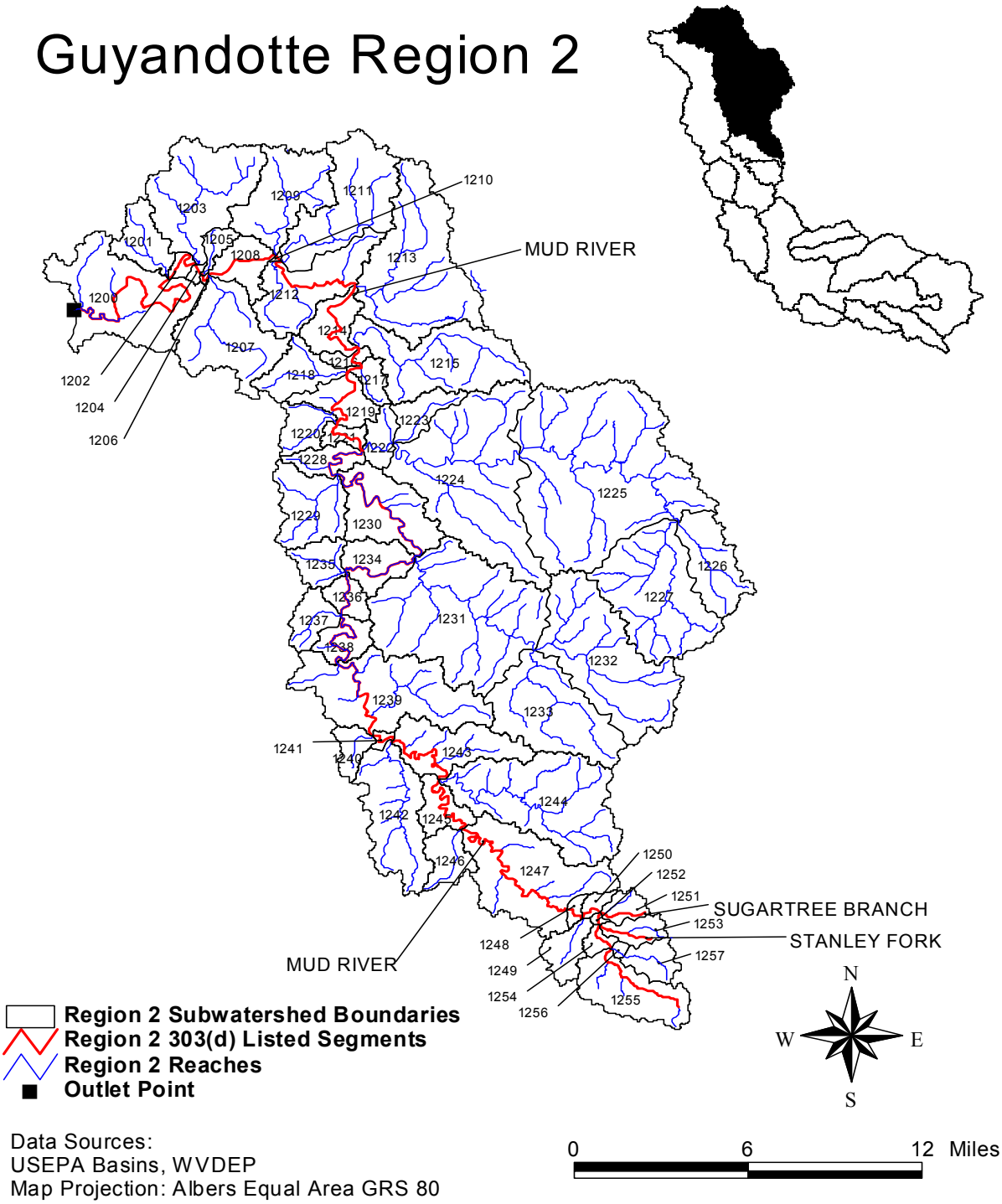

Figure 1. Region 2 - Guyandotte Watershed

Table 1. Impaired waterbodies in Region 2

Stream Name	Stream Code	Pollutant	Contributing SWS	Contributing Regions	Affected Use
Mud River	OG-2	Selenium	All SWS in this Region		Aquatic Life, Human Health
Stanley Fork	OGM-48	Selenium	1253		Aquatic Life, Human Health
Sugartree Branch	OGM-47	Selenium	1251		Aquatic Life, Human Health

T = Aquatic Life Trout Waters

W = Warm Water Fishery

Table 2. Locations of abandoned mines (seep, deep mine, and/or leachate)

SWS
1232
1240
1243
1247

Table 3a. Water quality data for dissolved aluminum

SWS	WQ Station	Avg (ug/L)	Min (ug/L)	Max (ug/L)	Count	Start Date	End Date
1200	4, WVOG-2	18.00	15	33	10	09/04/03	10/21/03
1209	OGM-7-Cm0.4	50.00	50	50	1	06/04/02	06/04/02
1212	5, WVOG-2	21.60	15	75	10	09/04/03	10/21/03
1221	6, WVOG-2	15.56	15	20	9	09/04/03	10/21/03
1239	7, WVOGM-47	22.78	15	83	9	09/03/03	10/20/03
1244	100	53.67	20	159	9	10/04/02	07/16/03
1245	97	44.89	24	89	9	10/04/02	07/16/03
1251	9, WVOG-2	15.56	15	20	9	09/03/03	10/20/03
1253	10, WVO-4	40.50	17	110	10	09/03/03	10/20/03
1254	8, WVOGM-48	15.56	15	20	9	09/03/03	10/20/03

Table 3b. Water quality data for total aluminum

SWS	WQ Station	Avg (ug/L)	Min (ug/L)	Max (ug/L)	Count	Start Date	End Date
1200	4, WVOG-2	970.40	145	3690	10	09/04/03	10/21/03
1200	OG-2m3.6	355.00	355	355	1	05/29/98	05/29/98
1201	OGM-3m0.9	567.00	567	567	1	05/26/98	05/26/98
1203	OGM-4m0.2	237.00	237	237	1	05/29/98	05/29/98
1203	OGM-4m2	374.00	374	374	1	05/26/98	05/26/98
1209	OGM-7-Cm0.4	400.00	400	400	1	06/04/02	06/04/02
1209	OGM-7m0.4	302.00	302	302	1	05/26/98	05/26/98
1211	OGM-8-Bm	318.00	318	318	1	05/03/98	05/03/98
1212	5, WVOG-2	482.10	18	1540	10	09/04/03	10/21/03
1213	550747	1367.50	170	5000	12	10/09/91	09/09/92
1213	551029	1063.64	100	3100	11	11/05/91	09/09/92
1215	OGM-14m7.2	119.00	119	119	1	05/29/98	05/29/98
1221	6, WVOG-2	45.78	15	108	9	09/04/03	10/21/03
1224	OGM-20-Dm4.6	560.00	560	560	1	05/28/98	05/28/98
1224	OGM-20m6.4	86.40	86.4	86.4	1	06/09/98	06/09/98
1225	OGM-20-I-1m1.	760.00	760	760	1	05/28/98	05/28/98
1225	OGM-20-Km0.1	1000.00	1000	1000	1	05/04/98	05/04/98
1225	OGM-20-Mm1.8	740.00	740	740	1	05/27/98	05/27/98
1227	OGM-20m21.2	219.00	219	219	1	05/29/98	05/29/98
1227	OGM-20-Tm3.5	580.00	580	580	1	05/28/98	05/28/98
1229	OGM-22-Am0.7	1100.00	1100	1100	1	05/04/98	05/04/98
1231	OGM-25-Bm2.3	197.00	197	197	1	05/28/98	05/28/98
1233	OGM-25-Im3	147.00	147	147	1	05/26/98	05/26/98
1234	OG-2m47	275.00	275	275	1	05/28/98	05/28/98
1236	OG-2m48.7	210.00	210	210	1	05/28/98	05/28/98
1239	7, WVOGM-47	242.11	15	1260	9	09/03/03	10/20/03
1242	OGM-35m1.8	670.00	670	670	1	05/21/98	05/21/98
1242	OGM-35m4.1	50.00	50	50	1	05/19/98	05/19/98
1244	100	166.11	54	557	9	10/04/02	07/16/03
1244	OGM-39m10.2	112.00	112	112	1	05/27/98	05/27/98
1245	97	147.78	61	328	9	10/04/02	07/16/03
1246	OGM-40.3m2.2	89.90	89.9	89.9	1	05/19/98	05/19/98
1247	OGM-44m0.2	50.00	50	50	1	05/19/98	05/19/98
1248	OG-2m77.2	520.00	520	520	1	05/18/98	05/18/98
1251	9, WVOG-2	191.78	15	1040	9	09/03/03	10/20/03
1253	10, WVO-4	340.20	71	1310	10	09/03/03	10/20/03
1254	8, WVOGM-48	17.00	15	27	9	09/03/03	10/20/03
1255	OGM-50m	990.00	990	990	1	05/18/98	05/18/98

Table 3c. Water quality data for dissolved iron

SWS	WQ Station	Avg (ug/L)	Min (ug/L)	Max (ug/L)	Count	Start Date	End Date
1200	4, WVOG-2	149.50	51	338	10	9/4/03	10/21/03
1209	OGM-7-Cm0.4	20.00	20	20	1	6/4/02	6/4/02
1212	5, WVOG-2	277.90	55	1630	10	9/4/03	10/21/03
1221	6, WVOG-2	41.11	15	102	9	9/4/03	10/21/03
1239	7, WVOGM-47	18.67	15	48	9	9/3/03	10/20/03
1244	100	180.00	80	490	10	10/4/02	7/16/03
1245	97	170.00	60	490	4	10/4/02	7/16/03
1251	9, WVOG-2	22.78	15	61	9	9/3/03	10/20/03
1253	10, WVO-4	30.30	15	118	10	9/3/03	10/20/03
1254	8, WVOGM-48	15.67	15	21	9	9/3/03	10/20/03

Table 3d. Water quality data for total iron

SWS	WQ Station	Avg (ug/L)	Min (ug/L)	Max (ug/L)	Count	Start Date	End Date
1200	4, WVOG-2	1665.40	720	5918	10	09/04/03	10/21/03
1200	OG-2m3.6	1160.00	1160	1160	1	05/29/98	05/29/98
1201	OGM-3m0.9	681.00	681	681	1	05/26/98	05/26/98
1203	OGM-4m0.2	1130.00	1130	1130	1	05/29/98	05/29/98
1203	OGM-4m2	761.00	761	761	1	05/26/98	05/26/98
1209	OGM-7-Cm0.4	590.00	590	590	1	06/04/02	06/04/02
1209	OGM-7m0.4	661.00	661	661	1	05/26/98	05/26/98
1211	OGM-8-Bm	549.00	549	549	1	05/03/98	05/03/98
1212	5, WVOG-2	2463.60	155	16800	10	09/04/03	10/21/03
1213	550747	659.58	95	1800	12	10/09/91	09/09/92
1213	551029	426.82	45	1000	11	11/05/91	09/09/92
1215	OGM-14m7.2	308.00	308	308	1	05/29/98	05/29/98
1221	6, WVOG-2	301.56	223	374	9	09/04/03	10/21/03
1224	OGM-20-Dm4.6	310.00	310	310	1	05/28/98	05/28/98
1224	OGM-20m6.4	885.00	885	885	1	06/09/98	06/09/98
1225	OGM-20-I-1m1.	510.00	510	510	1	05/28/98	05/28/98
1225	OGM-20-Km0.1	290.00	290	290	1	05/04/98	05/04/98
1225	OGM-20-Mm1.8	460.00	460	460	1	05/27/98	05/27/98
1227	OGM-20m21.2	912.00	912	912	1	05/29/98	05/29/98
1227	OGM-20-Tm3.5	280.00	280	280	1	05/28/98	05/28/98
1229	OGM-22-Am0.7	720.00	720	720	1	05/04/98	05/04/98
1231	OGM-25-Bm2.3	250.00	250	250	1	05/28/98	05/28/98
1233	OGM-25-Im3	725.00	725	725	1	05/26/98	05/26/98
1234	OG-2m47	633.00	633	633	1	05/28/98	05/28/98
1236	OG-2m48.7	526.00	526	526	1	05/28/98	05/28/98
1239	7, WVOGM-47	394.00	74	1850	9	09/03/03	10/20/03
1242	OGM-35m1.8	340.00	340	340	1	05/21/98	05/21/98
1242	OGM-35m4.1	314.00	314	314	1	05/19/98	05/19/98
1244	100	468.00	210	950	10	10/04/02	07/16/03
1244	OGM-39m10.2	332.00	332	332	1	05/27/98	05/27/98
1245	97	213.33	90	300	9	10/04/02	07/16/03
1246	OGM-40.3m2.2	386.00	386	386	1	05/19/98	05/19/98
1247	OGM-44m0.2	233.00	233	233	1	05/19/98	05/19/98
1248	OG-2m77.2	170.00	170	170	1	05/18/98	05/18/98
1251	9, WVOG-2	586.67	301	1900	9	09/03/03	10/20/03
1253	10, WVO-4	583.40	222	1870	10	09/03/03	10/20/03
1254	8, WVOGM-48	117.78	93	192	9	09/03/03	10/20/03
1255	OGM-50m	280.00	280	280	1	05/18/98	05/18/98

Table 3e. Water quality data for dissolved manganese

SWS	WQ Station	Avg (ug/L)	Min (ug/L)	Max (ug/L)	Count	Start Date	End Date
1244	100	71.00	40	210.0	10	10/04/02	07/16/03
1245	97	69.00	30	110.0	10	10/04/02	07/16/03

Table 3f. Water quality data for total manganese

SWS	WQ Station	Avg (ug/L)	Min (ug/L)	Max (ug/L)	Count	Start Date	End Date
1200	OG-2m3.6	94.00	94	94	1	05/29/98	05/29/98
1201	OGM-3m0.9	34.50	35	35	1	05/26/98	05/26/98
1203	OGM-4m0.2	372.00	372	372	1	05/29/98	05/29/98
1203	OGM-4m2	113.00	113	113	1	05/26/98	05/26/98
1209	OGM-7-Cm0.4	140.00	140	140	1	06/04/02	06/04/02
1209	OGM-7m0.4	103.00	103	103	1	5/26/1998	5/26/1998
1211	OGM-8-Bm	45.10	45	45	1	5/3/1998	5/3/1998
1213	550747	504.58	30	2700	12	10/9/1991	9/9/1992
1213	551029	126.36	30	260	11	11/5/1991	9/9/1992
1215	OGM-14m7.2	75.30	75	75	1	5/29/1998	5/29/1998
1224	OGM-20-Dm4.6	20.00	20	20	1	5/28/1998	5/28/1998
1224	OGM-20m6.4	219.00	219	219	1	6/9/1998	6/9/1998
1225	OGM-20-I-1m1.	40.00	40	40	1	5/28/1998	5/28/1998
1225	OGM-20-Km0.1	26.00	26	26	1	5/4/1998	5/4/1998
1225	OGM-20-Mm1.8	28.00	28	28	1	5/27/1998	5/27/1998
1227	OGM-20m21.2	169.00	169	169	1	5/29/1998	5/29/1998
1227	OGM-20-Tm3.5	20.00	20	20	1	5/28/1998	5/28/1998
1229	OGM-22-Am0.7	35.00	35	35	1	5/4/1998	5/4/1998
1231	OGM-25-Bm2.3	10.00	10	10	1	5/28/1998	5/28/1998
1233	OGM-25-Im3	118.00	118	118	1	5/26/1998	5/26/1998
1234	OG-2m47	115.00	115	115	1	5/28/1998	5/28/1998
1236	OG-2m48.7	116.00	116	116	1	5/28/1998	5/28/1998
1242	OGM-35m4.1	32.30	32	32	1	5/19/1998	5/19/1998
1244	100	148.00	40	570	10	10/4/2002	7/16/2003
1244	OGM-39m10.2	34.60	35	35	1	5/27/1998	5/27/1998
1245	97	100.00	40	220	10	10/4/2002	7/16/2003
1246	OGM-40.3m2.2	66.00	66	66	1	5/19/1998	5/19/1998
1247	OGM-44m0.2	57.90	58	58	1	5/19/1998	5/19/1998
1248	OG-2m77.2	150.00	150	150	1	5/18/1998	5/18/1998
1255	OGM-50m	20.00	20	20	1	5/18/1998	5/18/1998

Table 3g. Water quality data for total selenium

SWS	WQ Station	Avg (ug/L)	Min (ug/L)	Max (ug/L)	Count	Start Date	End Date
1200	4, WVOG-2	2.80	1	3	10	09/04/03	10/21/03
1209	OGM-7-Cm0.4	5.00	5	5	1	06/04/02	06/04/02
1212	5, WVOG-2	2.80	1	3	10	09/04/03	10/21/03
1213	550747	2.00	2	2	3	07/08/92	09/09/92
1213	551029	2.0	2.0	2.0	3	7/8/1992	9/9/1992
1221	6, WVOG-2	3.3	2.9	4.0	9	9/4/2003	10/21/2003
1239	7, WVOGM-47	16.1	10.3	19.6	9	9/3/2003	10/20/2003
1251	9, WVOG-2	4.8	2.9	9.4	9	9/3/2003	10/20/2003
1253	10, WVO-4	2.8	1.0	3.0	10	9/3/2003	10/20/2003
1254	8, WVOGM-48	6.7	5.4	8.0	9	9/3/2003	10/20/2003

Table 3h. Water quality data for pH

SWS	WQ Station	Avg (ug/L)	Min (ug/L)	Max (ug/L)	Count	Start Date	End Date
1200	OG-2m3.6	8.43	8.4	8.4	1	05/29/98	05/29/98
1200	OGM-1.5m	7.74	7.7	7.7	1	05/18/98	05/18/98
1201	OGM-3m0.9	7.60	7.6	7.6	1	05/26/98	05/26/98
1203	OGM-4m0.2	7.57	7.6	7.6	1	05/29/98	05/29/98
1203	OGM-4m2	7.56	7.6	7.6	1	05/26/98	05/26/98
1209	OGM-7-B-1m	7.52	7.5	7.5	1	05/03/98	05/03/98
1209	OGM-7-Cm0.4	2.93	2.9	2.9	1	06/04/02	06/04/02
1209	OGM-7m0.4	7.52	7.5	7.5	1	5/26/1998	5/26/1998
1211	OGM-8-Bm	7.52	7.5	7.5	1	5/3/1998	5/3/1998
1211	OGM-8-Cm	7.52	7.5	7.5	1	5/26/1998	5/26/1998
1211	OGM-8m4	7.52	7.5	7.5	1	5/3/1998	5/3/1998
1212	OG-2m18.8	8.47	8.5	8.5	1	5/14/1998	5/14/1998
1213	OGM-12m	7.71	7.7	7.7	1	5/15/1998	5/15/1998
1214	OGM-13m	7.71	7.7	7.7	1	5/15/1998	5/15/1998
1215	OGM-14m7.2	7.71	7.7	7.7	1	5/29/1998	5/29/1998
1216	OG-2m25.5	8.44	8.4	8.4	1	5/14/1998	5/14/1998
1218	OGM-16-Am	7.70	7.7	7.7	1	5/4/1998	5/4/1998
1220	OGM-19m	7.70	7.7	7.7	1	5/4/1998	5/4/1998
1223	OGM-20-Am	7.70	7.7	7.7	1	5/4/1998	5/4/1998
1224	OGM-20-Dm4.6	7.70	7.7	7.7	1	5/28/1998	5/28/1998
1224	OGM-20-Fm	7.70	7.7	7.7	1	6/9/1998	6/9/1998
1224	OGM-20m6.4	7.70	7.7	7.7	1	6/9/1998	6/9/1998
1225	OGM-20-Hm	7.70	7.7	7.7	1	5/27/1998	5/27/1998
1225	OGM-20-I-1m1.	7.70	7.7	7.7	1	5/28/1998	5/28/1998
1225	OGM-20-K-1m	7.67	7.7	7.7	1	5/7/1998	5/7/1998
1225	OGM-20-Km0.1	7.68	7.7	7.7	1	5/4/1998	5/4/1998
1225	OGM-20-Lm	7.68	7.7	7.7	1	5/6/1998	5/6/1998
1225	OGM-20-M-1m	7.65	7.7	7.7	1	5/6/1998	5/6/1998
1225	OGM-20-Mm1.8	7.67	7.7	7.7	1	5/27/1998	5/27/1998
1226	OGM-20-R-2m	7.65	7.7	7.7	1	5/27/1998	5/27/1998
1227	OGM-20m21.2	7.70	7.7	7.7	1	5/29/1998	5/29/1998
1227	OGM-20-Tm3.5	7.65	7.7	7.7	1	5/28/1998	5/28/1998
1227	OGM-20-Vm	7.65	7.7	7.7	1	5/7/1998	5/7/1998
1229	OGM-22-Am0.7	7.63	7.6	7.6	1	5/4/1998	5/4/1998
1231	OGM-25-Am	7.62	7.6	7.6	1	5/6/1998	5/6/1998
1231	OGM-25-B-1m	7.62	7.6	7.6	1	5/6/1998	5/6/1998
1231	OGM-25-Bm2.3	7.62	7.6	7.6	1	5/28/1998	5/28/1998
1232	OGM-25-H-1m	7.62	7.6	7.6	1	5/26/1998	5/26/1998
1233	OGM-25-I-4m	7.60	7.6	7.6	1	5/26/1998	5/26/1998
1233	OGM-25-Im	7.61	7.6	7.6	1	5/26/1998	5/26/1998
1233	OGM-25-Im3	7.60	7.6	7.6	1	5/26/1998	5/26/1998
1234	OG-2m47	8.38	8.4	8.4	1	5/28/1998	5/28/1998
1236	OG-2m48.7	8.36	8.4	8.4	1	5/28/1998	5/28/1998
1239	OGM-31m	7.60	7.6	7.6	1	5/21/1998	5/21/1998
1239	OGM-33-Bm	7.60	7.6	7.6	1	5/21/1998	5/21/1998
1239	OGM-33-Cm	7.60	7.6	7.6	1	5/28/1998	5/28/1998
1242	OGM-35-Em	7.60	7.6	7.6	1	5/28/1998	5/28/1998
1242	OGM-35m1.8	7.60	7.6	7.6	1	5/21/1998	5/21/1998
1242	OGM-35m4.1	7.60	7.6	7.6	1	5/19/1998	5/19/1998
1244	100	6.80	6.5	7.7	10	10/4/2002	7/16/2003
1244	OGM-39-Gm	7.57	7.6	7.6	1	5/27/1998	5/27/1998
1244	OGM-39m	7.60	7.6	7.6	1	5/27/1998	5/27/1998
1244	OGM-39m10.2	7.58	7.6	7.6	1	5/27/1998	5/27/1998
1245	97	7.93	7.2	8.5	10	10/4/2002	7/16/2003
1246	OGM-40.3m0	7.56	7.6	7.6	1	5/19/1998	5/19/1998
1246	OGM-40.3m2.2	7.55	7.6	7.6	1	5/19/1998	5/19/1998
1247	OGM-43m	7.54	7.5	7.5	1	5/18/1998	5/18/1998
1247	OGM-44m0.2	7.53	7.5	7.5	1	5/19/1998	5/19/1998
1248	OG-2m77.2	8.33	8.3	8.3	1	5/18/1998	5/18/1998
1255	OGM-50m	7.53	7.5	7.5	1	5/18/1998	5/18/1998

Table 3i. Water quality data for fecal coliforms

SWS	WQ Station	Avg (#/100 mL)	Min (#/100 mL)	Max (#/100 mL)	Count	Start Date	End Date
1200	OG-2m3.6	610.0	610.0	610.0	1	5/29/1998	5/29/1998
1200	OGM-1.5m	12000.0	12000.0	12000.0	1	5/18/1998	5/18/1998
1201	OGM-3m0.9	1000.0	1000.0	1000.0	1	5/26/1998	5/26/1998
1203	OGM-4m0.2	1000.0	1000.0	1000.0	1	5/29/1998	5/29/1998
1203	OGM-4m2	610.0	610.0	610.0	1	5/26/1998	5/26/1998
1209	OGM-7-B-1m	460.0	460.0	460.0	1	5/3/1998	5/3/1998
1209	OGM-7-Cm0.4	2.0	2.0	2.0	1	6/4/2002	6/4/2002
1209	OGM-7m0.4	540.0	540.0	540.0	1	5/26/1998	5/26/1998
1211	OGM-8-Bm	84.0	84.0	84.0	1	5/3/1998	5/3/1998
1211	OGM-8-Cm	2800.0	2800.0	2800.0	1	5/26/1998	5/26/1998
1211	OGM-8m4	520.0	520.0	520.0	1	5/3/1998	5/3/1998
1212	OG-2m18.8	150.0	150.0	150.0	1	5/14/1998	5/14/1998
1213	OGM-12m	150.0	150.0	150.0	1	5/15/1998	5/15/1998
1214	OGM-13m	1400.0	1400.0	1400.0	1	5/15/1998	5/15/1998
1215	OGM-14m7.2	880.0	880.0	880.0	1	5/29/1998	5/29/1998
1216	OG-2m25.5	200.0	200.0	200.0	1	5/14/1998	5/14/1998
1218	OGM-16-Am	140.0	140.0	140.0	1	5/4/1998	5/4/1998
1220	OGM-19m	130.0	130.0	130.0	1	5/4/1998	5/4/1998
1223	OGM-20-Am	220.0	220.0	220.0	1	5/4/1998	5/4/1998
1224	OGM-20-Dm4.6	2240.0	380.0	4100.0	2	5/21/1998	5/28/1998
1224	OGM-20-Fm	940.0	940.0	940.0	1	6/9/1998	6/9/1998
1224	OGM-20m6.4	160.0	160.0	160.0	1	6/9/1998	6/9/1998
1225	OGM-20-Hm	909.0	909.0	909.0	1	5/27/1998	5/27/1998
1225	OGM-20-I-1m1.	1100.0	1100.0	1100.0	1	5/28/1998	5/28/1998
1225	OGM-20-K-1m	1200.0	1200.0	1200.0	1	5/7/1998	5/7/1998
1225	OGM-20-Km0.1	340.0	340.0	340.0	1	5/4/1998	5/4/1998
1225	OGM-20-Lm	360.0	360.0	360.0	1	5/6/1998	5/6/1998
1225	OGM-20-M-1m	300.0	300.0	300.0	1	5/6/1998	5/6/1998
1225	OGM-20-Mm1.8	550.0	550.0	550.0	1	5/27/1998	5/27/1998
1226	OGM-20-R-2m	171.0	171.0	171.0	1	5/27/1998	5/27/1998
1227	OGM-20m21.2	1100.0	1100.0	1100.0	1	5/29/1998	5/29/1998
1227	OGM-20-Tm3.5	6300.0	6300.0	6300.0	1	5/28/1998	5/28/1998
1227	OGM-20-Vm	220.0	220.0	220.0	1	5/7/1998	5/7/1998
1229	OGM-22-Am0.7	350.0	350.0	350.0	1	5/4/1998	5/4/1998
1231	OGM-25-Am	520.0	520.0	520.0	1	5/6/1998	5/6/1998
1231	OGM-25-B-1m	160.0	160.0	160.0	1	5/6/1998	5/6/1998
1231	OGM-25-Bm2.3	3800.0	3800.0	3800.0	1	5/28/1998	5/28/1998
1232	OGM-25-H-1m	8000.0	8000.0	8000.0	1	5/26/1998	5/26/1998
1233	OGM-25-I-4m	3500.0	3500.0	3500.0	1	5/26/1998	5/26/1998
1233	OGM-25-Im	3200.0	3200.0	3200.0	1	5/26/1998	5/26/1998
1233	OGM-25-Im3	550.0	550.0	550.0	1	5/26/1998	5/26/1998
1234	OG-2m47	10000.0	10000.0	10000.0	1	5/28/1998	5/28/1998
1236	OG-2m48.7	600.0	600.0	600.0	1	5/28/1998	5/28/1998
1239	OGM-31m	1500.0	1500.0	1500.0	1	5/21/1998	5/21/1998
1239	OGM-33-Bm	610.0	610.0	610.0	1	5/21/1998	5/21/1998
1239	OGM-33-Cm	400.0	400.0	400.0	1	5/28/1998	5/28/1998
1242	OGM-35-Em	3800.0	3800.0	3800.0	1	5/28/1998	5/28/1998
1242	OGM-35m4.1	66.0	66.0	66.0	1	5/19/1998	5/19/1998
1244	OGM-39-Gm	5000.0	5000.0	5000.0	1	5/27/1998	5/27/1998
1244	OGM-39m	5200.0	5200.0	5200.0	1	5/27/1998	5/27/1998
1244	OGM-39m10.2	2900.0	2900.0	2900.0	1	5/27/1998	5/27/1998
1246	OGM-40.3m0	930.0	930.0	930.0	1	5/19/1998	5/19/1998
1246	OGM-40.3m2.2	430.00	430	430	1	05/19/98	05/19/98
1247	OGM-43m	1200.00	1200	1200	1	05/18/98	05/18/98
1247	OGM-44m0.2	55.00	55	55	1	05/19/98	05/19/98
1248	OG-2m77.2	50.00	50	50	1	05/18/98	05/18/98
1255	OGM-50m	72.00	72	72	1	05/18/98	05/18/98

Table 4a. Iron baseline conditions and allocations (WLAs) for permitted mining point sources

SWS	NPDES Permit ID	Baseline (lb/yr)	Allocation (lb/yr)	Allocation (mg/L)	% Reduction
1247	WV1016776	0	0	3.20	0
1247	WV1017225	100	100	3.20	0
1250	WV0099392	1,294	621	1.54	52
1250	WV1017225	161	77	1.54	52
1251	WV0099392	4,073	1,955	1.54	52
1251	WV1016695	709	340	1.54	52
1252	WV0099392	1,355	650	1.54	52
1252	WV1016776	7,629	3,662	1.54	52
1253	WV0099392	2,710	2,710	3.20	0
1254	WV0099392	5,419	2,601	1.54	52
1254	WV1016776	15,259	7,324	1.54	52
1255	WV0099392	8,129	3,902	1.54	52
1255	WV1016776	30,518	14,649	1.54	52
1212*	WVG640009	98.05	98.05	3.70	0

* Denotes actual Office of Water Resources Permit

Table 4b. Manganese baseline conditions and allocations (WLAs) for permitted mining point sources

SWS	NPDES Permit ID	Baseline (lb/yr)	Allocation (lb/yr)	Allocation (mg/L)	% Reduction
1247	WV1016776	0	0	2.00	0
1247	WV1017225	60	60	2.00	0
1250	WV0099392	480	480	2.00	0
1250	WV1017225	60	60	2.00	0
1251	WV0099392	1,440	1,440	2.00	0
1251	WV1016695	251	251	2.00	0
1252	WV0099392	480	480	2.00	0
1252	WV1016776	2,703	2,703	2.00	0
1253	WV0099392	960	960	2.00	0
1254	WV0099392	1,920	1,920	2.00	0
1254	WV1016776	5,405	5,405	2.00	0
1255	WV0099392	2,880	2,880	2.00	0
1255	WV1016776	10,811	10,811	2.00	0

Table 4c. Aluminum baseline conditions and allocations (WLAs) for permitted mining point sources

SWS	NPDES Permit ID	Baseline (lb/yr)	Allocation (lb/yr)	Allocation (mg/L)	% Reduction
1247	WV1016776	0	0	3.27	0
1247	WV1017225	102	102	3.27	0
1250	WV0099392	1,261	1,261	3.27	0
1250	WV1017225	156	156	3.27	0
1251	WV0099392	3,951	3,951	3.27	0
1251	WV1016695	688	688	3.27	0
1252	WV0099392	1,315	1,315	3.27	0
1252	WV1016776	7,407	7,407	3.27	0
1253	WV0099392	2,631	2,631	3.27	0
1254	WV0099392	5,261	5,261	3.27	0
1254	WV1016776	14,815	14,815	3.27	0
1255	WV0099392	7,892	7,892	3.27	0
1255	WV1016776	29,629	29,629	3.27	0

Table 5a. Iron baseline conditions and allocations (LAs) for nonpoint sources

* Othen Nonpoint Sources include: Forest, Wetland, Agriculture, Pasture, and Urban)

SWS	AML		Revoked Mines		Roads		Oil and Gas Wells		Harvested Forest		Barren Land		Other Non-Point Sources		Requires Reduction
	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	
1200	0	0	0	0	331	331	3	3	0	0	78	78	644	644	
1201	0	0	0	0	48	48	0	0	0	0	0	0	105	105	
1202	0	0	0	0	15	15	0	0	0	0	6	6	18	18	
1203	0	0	0	0	140	140	0	0	0	0	90	90	349	349	
1204	0	0	0	0	10	10	0	0	0	0	29	29	16	16	
1205	0	0	0	0	16	16	0	0	0	0	5	5	40	40	
1206	0	0	0	0	0	0	0	0	0	0	6	6	5	5	
1207	0	0	0	0	162	162	15	15	21	21	165	165	412	412	
1208	0	0	0	0	88	88	0	0	0	0	7	7	152	152	
1209	0	0	0	0	96	96	0	0	0	0	22	22	303	303	
1210	0	0	0	0	1	1	0	0	0	0	0	0	3	3	
1211	0	0	0	0	99	99	0	0	88	88	2	2	388	388	
1212	0	0	0	0	212	212	6	6	0	0	74	74	407	407	
1213	0	0	0	0	328	328	45	45	86	86	14	14	805	805	
1214	0	0	0	0	71	71	11	11	0	0	0	0	148	148	
1215	0	0	0	0	164	164	39	39	0	0	262	262	429	429	
1216	0	0	0	0	18	18	3	3	0	0	64	64	33	33	
1217	0	0	0	0	15	15	3	3	0	0	15	15	51	51	
1218	0	0	0	0	31	31	15	15	0	0	56	56	127	127	
1219	0	0	0	0	29	29	4	4	0	0	18	18	117	117	
1220	0	0	0	0	30	30	12	12	57	57	79	79	87	87	
1221	0	0	0	0	19	19	1	1	0	0	71	71	45	45	
1222	0	0	0	0	13	13	1	1	0	0	1	1	71	71	
1223	0	0	0	0	34	34	6	6	0	0	22	22	83	83	
1224	0	0	0	0	226	226	46	46	36	36	47	47	795	795	
1225	0	0	0	0	389	389	141	141	0	0	1,682	1,682	1,170	1,170	
1226	0	0	0	0	134	134	128	128	0	0	83	83	221	221	
1227	0	0	0	0	209	209	163	163	0	0	28	28	498	498	
1228	0	0	0	0	28	28	4	4	0	0	939	939	75	75	
1229	0	0	0	0	72	72	16	16	0	0	215	215	206	206	
1230	0	0	0	0	92	92	15	15	26	26	1,343	1,343	271	271	
1231	0	0	0	0	246	246	22	22	57	57	0	0	848	848	
1232	527	53	0	0	518	518	2	2	0	0	16	16	3,878	3,878	x
1233	0	0	0	0	174	174	21	21	27	27	42	42	410	410	
1234	0	0	0	0	115	115	0	0	0	0	110	110	177	177	
1235	0	0	0	0	28	28	1	1	0	0	76	76	93	93	

Table 5a. (Continued) Iron baseline conditions and allocations (LAs) for nonpoint sources

SWS	AML		Revoked Mines		Roads		Oil and Gas Wells		Harvested Forest		Barren Land		Other Non-Point Sources		Requires Reduction
	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	
1236	0	0	0	0	39	39	0	0	63	63	7	7	62	62	
1237	0	0	0	0	30	30	0	0	47	47	0	0	84	84	
1238	0	0	0	0	39	39	6	6	140	140	0	0	78	78	
1239	0	0	0	0	284	284	34	34	11	11	113	113	469	469	
1240	97	10	0	0	25	25	0	0	50	50	0	0	274	274	x
1241	0	0	0	0	21	21	1	1	0	0	0	0	12	12	
1242	0	0	0	0	164	141	31	27	150	135	3,720	3,162	259	259	x
1243	2,393	2,393	0	0	158	158	4	4	36	36	1	1	1,135	1,135	
1244	0	0	0	0	238	238	112	112	0	0	28	28	522	522	
1245	0	0	0	0	35	35	16	16	38	38	104	104	77	77	
1246	0	0	0	0	51	51	16	16	33	33	7	7	84	84	
1247	4	0	0	0	210	210	98	98	67	67	428	428	395	395	x
1248	0	0	0	0	6	6	1	1	0	0	17	17	16	16	
1249	0	0	0	0	24	24	6	6	0	0	0	0	61	61	
1250	0	0	0	0	6	6	3	3	0	0	0	0	17	17	
1251	0	0	0	0	21	21	7	7	0	0	0	0	33	33	
1252	0	0	0	0	3	3	2	2	0	0	0	0	0	0	
1253	0	0	0	0	25	25	0	0	0	0	3,662	3,662	51	51	
1254	0	0	0	0	13	13	2	2	0	0	0	0	7	7	
1255	0	0	0	0	54	24	33	13	0	0	5,267	2,107	37	37	x
1256	0	0	0	0	6	6	2	2	0	0	215	215	10	10	
1257	0	0	0	0	27	27	9	9	0	0	1,665	1,665	68	68	

Table 5b. Manganese baseline conditions and allocations (LAs) for nonpoint sources

SWS	AML		Revoked Mines		Roads		Oil and Gas Wells		Harvested Forest		Barren Land		Other Non-Point Sources		Requires Reduction
	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	
1200	0	0	0	0	97	97	1	1	0	0	24	24	1,124	1,124	
1201	0	0	0	0	14	14	0	0	0	0	0	0	312	312	
1202	0	0	0	0	4	4	0	0	0	0	2	2	51	51	
1203	0	0	0	0	42	42	0	0	0	0	28	28	1,034	1,034	
1204	0	0	0	0	3	3	0	0	0	0	9	9	25	25	
1205	0	0	0	0	5	5	0	0	0	0	2	2	119	119	
1206	0	0	0	0	0	0	0	0	0	0	2	2	9	9	
1207	0	0	0	0	53	53	5	5	19	19	58	58	1,035	1,035	
1208	0	0	0	0	29	29	0	0	0	0	2	2	324	324	
1209	0	0	0	0	32	32	0	0	0	0	8	8	906	906	
1210	0	0	0	0	0	0	0	0	0	0	0	0	8	8	
1211	0	0	0	0	32	32	0	0	77	77	1	1	1,156	1,156	
1212	0	0	0	0	68	68	2	2	0	0	26	26	830	830	
1213	0	0	0	0	107	107	16	16	77	77	5	5	1,764	1,764	
1214	0	0	0	0	24	24	4	4	0	0	0	0	341	341	
1215	0	0	0	0	55	55	14	14	0	0	92	92	1,247	1,247	
1216	0	0	0	0	6	6	1	1	0	0	23	23	85	85	
1217	0	0	0	0	5	5	1	1	0	0	5	5	156	156	
1218	0	0	0	0	10	10	5	5	0	0	20	20	393	393	
1219	0	0	0	0	10	10	2	2	0	0	6	6	337	337	
1220	0	0	0	0	10	10	4	4	51	51	28	28	265	265	
1221	0	0	0	0	6	6	0	0	0	0	25	25	115	115	
1222	0	0	0	0	4	4	0	0	0	0	0	0	218	218	
1223	0	0	0	0	11	11	2	2	0	0	8	8	266	266	
1224	0	0	0	0	74	74	16	16	32	32	16	16	2,387	2,387	
1225	0	0	0	0	129	129	49	49	0	0	589	589	3,501	3,501	
1226	0	0	0	0	45	45	45	45	0	0	29	29	623	623	
1227	0	0	0	0	70	70	57	57	0	0	10	10	1,505	1,505	
1228	0	0	0	0	9	9	2	2	0	0	329	329	216	216	
1229	0	0	0	0	24	24	5	5	0	0	75	75	637	637	
1230	0	0	0	0	31	31	5	5	23	23	471	471	754	754	
1231	0	0	0	0	81	81	8	8	51	51	0	0	2,428	2,428	
1232	712	712	0	0	68	68	5	5	0	0	40	40	1,735	1,735	

Table 5b. (Continued) Manganese baseline conditions and allocations (LAs) for nonpoint sources

SWS	AML		Revoked Mines		Roads		Oil and Gas Wells		Harvested Forest		Barren Land		Other Non-Point Sources		Requires Reduction
	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	
1233	0	0	0	0	59	59	7	7	24	24	15	15	1,260	1,260	
1234	0	0	0	0	38	38	0	0	0	0	38	38	360	360	
1235	0	0	0	0	9	9	0	0	0	0	27	27	273	273	
1236	0	0	0	0	13	13	0	0	56	56	2	2	170	170	
1237	0	0	0	0	10	10	0	0	41	41	0	0	260	260	
1238	0	0	0	0	13	13	2	2	124	124	0	0	220	220	
1239	0	0	0	0	96	96	12	12	10	10	40	40	1,481	1,481	
1240	163	163	0	0	10	10	1	1	100	100	0	0	157	157	
1241	0	0	0	0	7	7	0	0	0	0	0	0	36	36	
1242	0	0	0	0	56	56	11	11	133	133	1,303	1,303	856	856	
1243	3,086	3,086	0	0	41	41	9	9	72	72	2	2	644	644	
1244	0	0	0	0	80	80	39	39	0	0	10	10	1,707	1,707	
1245	0	0	0	0	12	12	5	5	34	34	37	37	249	249	
1246	0	0	0	0	17	17	5	5	29	29	2	2	281	281	
1247	51	51	0	0	71	71	34	34	59	59	150	150	1,310	1,310	
1248	0	0	0	0	2	2	0	0	0	0	6	6	53	53	
1249	0	0	0	0	8	8	2	2	0	0	0	0	204	204	
1250	0	0	0	0	2	2	1	1	0	0	0	0	57	57	
1251	0	0	0	0	7	7	2	2	0	0	0	0	109	109	
1252	0	0	0	0	1	1	1	1	0	0	0	0	0	0	
1253	0	0	0	0	9	9	0	0	0	0	1,283	1,283	82	82	
1254	0	0	0	0	4	4	1	1	0	0	0	0	15	15	
1255	0	0	0	0	18	18	11	11	0	0	1,845	1,845	125	125	
1256	0	0	0	0	2	2	1	1	0	0	75	75	25	25	
1257	0	0	0	0	9	9	3	3	0	0	583	583	197	197	

Table 5c. Aluminum baseline conditions and allocations (LAs) for nonpoint sources

SWS	AML		Revoked Mines		Roads		Oil and Gas Wells		Harvested Forest		Barren Land		Other Non-Point Sources		Requires Reduction
	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	
1200	0	0	0	0	211	211	2	2	0	0	53	53	673	673	
1201	0	0	0	0	31	31	0	0	0	0	0	0	148	148	
1202	0	0	0	0	10	10	0	0	0	0	4	4	26	26	
1203	0	0	0	0	91	91	0	0	0	0	61	61	493	493	
1204	0	0	0	0	6	6	0	0	0	0	19	19	17	17	
1205	0	0	0	0	10	10	0	0	0	0	3	3	56	56	
1206	0	0	0	0	0	0	0	0	0	0	4	4	5	5	
1207	0	0	0	0	104	104	10	10	15	15	113	113	528	528	
1208	0	0	0	0	57	57	0	0	0	0	5	5	192	192	
1209	0	0	0	0	63	63	0	0	0	0	15	15	433	433	
1210	0	0	0	0	1	1	0	0	0	0	0	0	5	5	
1211	0	0	0	0	64	64	0	0	62	62	1	1	554	554	
1212	0	0	0	0	135	135	4	4	0	0	51	51	476	476	
1213	0	0	0	0	210	210	31	31	61	61	9	9	951	951	
1214	0	0	0	0	47	47	8	8	0	0	0	0	180	180	
1215	0	0	0	0	107	107	27	27	0	0	179	179	588	588	
1216	0	0	0	0	12	12	2	2	0	0	44	44	42	42	
1217	0	0	0	0	9	9	2	2	0	0	10	10	71	71	
1218	0	0	0	0	21	21	10	10	0	0	38	38	179	179	
1219	0	0	0	0	19	19	3	3	0	0	12	12	160	160	
1220	0	0	0	0	20	20	8	8	41	41	54	54	124	124	
1221	0	0	0	0	13	13	1	1	0	0	49	49	58	58	
1222	0	0	0	0	8	8	1	1	0	0	1	1	99	99	
1223	0	0	0	0	22	22	4	4	0	0	15	15	119	119	
1224	0	0	0	0	146	146	31	31	25	25	32	32	1,115	1,115	
1225	0	0	0	0	254	254	96	96	0	0	1,148	1,148	1,651	1,651	
1226	0	0	0	0	89	89	87	87	0	0	57	57	300	300	
1227	0	0	0	0	137	137	111	111	0	0	19	19	697	697	
1228	0	0	0	0	19	19	3	3	0	0	641	641	103	103	
1229	0	0	0	0	47	47	11	11	0	0	147	147	295	295	
1230	0	0	0	0	60	60	10	10	18	18	917	917	363	363	
1231	0	0	0	0	158	158	15	15	41	41	0	0	1,157	1,157	
1232	2,246	2,246	0	0	523	523	2	2	0	0	18	18	4,189	4,189	
1233	0	0	0	0	116	116	15	15	19	19	28	28	579	579	

Table 5c. (Continued) Aluminum baseline conditions and allocations (LAs) for nonpoint sources

SWS	AML		Revoked Mines		Roads		Oil and Gas Wells		Harvested Forest		Barren Land		Other Non-Point Sources		Requires Reduction
	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	Baseline Load (lb/yr)	Allocated Load (lb/yr)	
1234	0	0	0	0	74	74	0	0	0	0	75	75	202	202	
1235	0	0	0	0	18	18	1	1	0	0	52	52	129	129	
1236	0	0	0	0	25	25	0	0	45	45	5	5	81	81	
1237	0	0	0	0	20	20	0	0	33	33	0	0	119	119	
1238	0	0	0	0	26	26	4	4	100	100	0	0	106	106	
1239	0	0	0	0	189	189	23	23	8	8	77	77	671	671	
1240	48	48	0	0	25	25	1	1	55	55	0	0	301	301	
1241	0	0	0	0	14	14	1	1	0	0	0	0	17	17	
1242	0	0	0	0	109	109	21	21	107	107	2,540	2,540	371	371	
1243	11,950	11,950	0	0	161	161	4	4	39	39	1	1	1,247	1,247	
1244	0	0	0	0	157	157	77	77	0	0	19	19	749	749	
1245	0	0	0	0	23	23	11	11	27	27	71	71	111	111	
1246	0	0	0	0	34	34	11	11	23	23	5	5	121	121	
1247	27	27	0	0	140	140	67	67	47	47	292	292	566	566	
1248	0	0	0	0	4	4	1	1	0	0	12	12	23	23	
1249	0	0	0	0	16	16	4	4	0	0	0	0	87	87	
1250	0	0	0	0	4	4	2	2	0	0	0	0	24	24	
1251	0	0	0	0	14	14	5	5	0	0	0	0	47	47	
1252	0	0	0	0	2	2	2	2	0	0	0	0	0	0	
1253	0	0	0	0	17	17	0	0	0	0	2,501	2,501	53	53	
1254	0	0	0	0	9	9	2	2	0	0	0	0	10	10	
1255	0	0	0	0	35	35	22	22	0	0	3,597	3,597	53	53	
1256	0	0	0	0	4	4	2	2	0	0	147	147	13	13	
1257	0	0	0	0	18	18	6	6	0	0	1,137	1,137	94	94	

Table 6. Fecal Coliform baseline and allocations

SWS	Stream	Agriculture		Natural Sources		Failing Septics		Residential	
		Baseline Load (counts)	Allocated Load (count)	Baseline Load (count)	Allocated Load (count)	Baseline Load (count)	Allocated Load (count)	Baseline Load (count)	Allocated Load (count)
1200	Mud River	5.11E+14	1.28E+14	7.09E+13	7.09E+13	1.74E+15	0.00E+00	3.18E+14	7.95E+13