

Table 1 - Seep Well Field (SWF) Operational Metrics

Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics																			
Date	LS #1 Flow ⁴ (gpm)	PC-116R (East Well)		PC-99R2/R3 (Center Well)		PC-115R (West Well)		PC-117		PC-118		PC-119		PC-120		PC-121		PC-133	
		Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)
12/01/18	564	168	1536.94	87	1540.04	131	1542.36	116	1537.62	58	1546.65	102	1547.97	51	1549.05	19	1550.18	10	1522.60
12/02/18	562	168	1536.93	87	1540.35	131	1542.34	116	1537.60	59	1546.63	102	1547.95	51	1549.03	20	1550.16	9.8	1522.56
12/03/18 ²	559	167	1536.94	86	1540.38	131	1542.35	116	1537.59	58	1546.61	101	1547.95	51	1549.04	19	1550.17	10	1522.59
12/04/18	569	168	1536.94	86	1540.32	131	1542.36	116	1537.59	59	1546.63	102	1547.97	52	1549.05	20	1550.18	9.8	1523.35
12/05/18	570	167	1536.95	87	1540.87	130	1542.37	115	1537.60	58	1546.65	100	1547.97	51	1549.05	19	1550.18	10	1523.03
12/06/18	569	165	1536.93	86	1540.02	129	1542.35	114	1537.58	57	1546.64	100	1547.96	50	1549.03	19	1550.16	9.6	1522.54
12/07/18	570	168	1536.92	87	1540.70	131	1542.33	116	1537.56	58	1546.60	101	1547.95	51	1549.02	19	1550.14	9.7	1522.51
12/08/18	568	167	1536.91	86	1540.61	130	1542.32	116	1537.55	59	1546.60	101	1547.92	51	1549.00	19	1550.12	10	1522.44
12/09/18	579	169	1536.90	88	1540.57	132	1542.32	117	1537.54	59	1546.60	103	1547.91	51	1548.99	20	1550.12	9.8	1522.45
12/10/18 ²	528	167	1536.89	83	1540.57	131	1542.32	116	1537.53	58	1546.59	101	1547.91	51	1548.99	19	1550.12	10	1522.30
12/11/18	581	167	1536.87	87	1540.58	131	1542.32	116	1537.53	58	1546.60	101	1547.89	51	1548.98	19	1550.10	9.7	1522.49
12/12/18	576	166	1536.84	86	1541.40	129	1542.31	115	1537.49	58	1546.54	101	1547.86	50	1548.94	19	1550.07	9.6	1522.50
12/13/18	567	167	1536.83	86	1540.53	130	1542.30	116	1537.47	58	1546.57	101	1547.84	51	1548.93	19	1550.05	10	1522.96
12/14/18	575	167	1536.95	88	1540.65	130	1542.30	115	1537.64	58	1546.54	101	1547.85	51	1548.93	19	1550.05	9.7	1522.48
12/15/18	581	168	1536.90	89	1540.51	131	1542.28	117	1537.60	59	1546.51	102	1547.83	51	1548.91	20	1550.03	9.8	1522.42
12/16/18	583	169	1537.10	88	1540.72	132	1542.60	116	1537.76	59	1547.01	80	1549.31	51	1549.36	19	1550.30	11	1522.36
12/17/18 ²	494	167	1536.98	85	1540.81	131	1542.34	116	1537.64	59	1546.61	101	1547.99	51	1548.98	19	1550.08	8.6	1522.94
12/18/18	608	167	1536.95	88	1540.57	129	1542.32	115	1537.54	58	1546.59	101	1547.99	47	1549.18	19	1550.08	9.7	1522.48
12/19/18 ³	545	146	1537.03	80	1540.42	115	1542.30	102	1537.46	73	1546.02	90	1547.90	43	1548.92	19	1550.03	9.7	1522.48
12/20/18	650	165	1536.87	87	1540.66	129	1542.21	114	1537.34	78	1545.93	100	1547.81	49	1548.84	19	1549.96	10	1522.44
12/21/18	649	166	1536.78	87	1539.77	130	1542.14	115	1537.24	78	1545.89	100	1547.76	50	1548.79	19	1549.91	9.7	1522.57
12/22/18	648	168	1536.72	87	1539.99	130	1542.10	116	1537.19	79	1545.84	101	1547.72	51	1548.75	20	1549.87	9.8	1522.22
12/23/18	648	167	1536.68	87	1539.78	131	1542.06	117	1537.15	80	1545.82	101	1547.69	50	1548.73	20	1549.85	9.8	1522.41
12/24/18	653	167	1536.66	87	1539.33	130	1542.07	115	1537.14	78	1545.84	101	1547.69	50	1548.73	19	1549.86	10	1522.82
12/25/18	647	167	1536.63	86	1539.51	131	1542.04	116	1537.12	78	1545.81	101	1547.67	51	1548.71	19	1549.83	9.7	1522.60
12/26/18	647	166	1536.62	86	1539.76	130	1542.03	116	1537.09	78	1545.79	100	1547.66	50	1548.70	19	1549.82	9.7	1522.23
12/27/18	645	167	1536.59	85	1540.07	130	1542.02	115	1537.08	78	1545.78	101	1547.64	50	1548.68	19	1549.81	9.7	1522.17
12/28/18	645	167	1536.57	86	1539.93	130	1541.99	116	1537.05	78	1545.77	100	1547.61	50	1548.66	19	1549.78	9.7	1521.96
12/29/18	632	164	1536.70	85	1539.55	127	1542.04	113	1537.38	77	1545.78	100	1547.63	50	1548.67	19	1549.79	10	1522.86
12/30/18	645	169	1536.68	87	1540.34	132	1542.05	117	1537.36	79	1545.78	102	1547.63	51	1548.67	20	1549.80	10	1522.80
12/31/18 ²	572	167	1536.62	82	1539.93	130	1542.00	115	1537.30	78	1545.76	101	1547.59	50	1548.64	19	1549.76	10	1522.56
Monthly Average	594	166	1536.83	86	1540.30	130	1542.23	115	1537.43	67	1546.29	100	1547.87	50	1548.90	19	1550.01	10	1522.55
Analytical ¹		Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date
Perchlorate		9.6	12/10/2018	13	12/10/2018	8.6	12/10/2018	4.3	12/10/2018	5.0	12/10/2018	0.88	12/10/2018	0.034	12/10/2018	0.035	12/10/2018	0.95	12/10/2018
Hexavalent Chromium		0.0032	12/10/2018	0.00032 J	12/10/2018	ND	12/10/2018	0.0033	12/10/2018	ND	12/10/2018	ND	12/10/2018	ND	12/10/2018	ND	12/10/2018	ND	12/10/2018
Total Chromium		0.0039 J	12/10/2018	ND	12/10/2018	ND	12/10/2018	0.0040 J	12/10/2018	ND	12/10/2018	ND	12/10/2018	ND	12/10/2018	ND	12/10/2018	ND	12/10/2018

Notes:
 Flow reported as gpm is a daily average calculated from the totalizer reading.
 ND = Not detected above laboratory method detection limit (Cr(TR)=2.5 ug/L, Cr(VI) =0.20 ug/L).
 J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
 1: Analytical results are reported from TestAmerica.
 2: On 12/03, 12/10, 12/17, and 12/31, the LS #1 and SWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
 3: On 12/19, all SWF wells flows were reduced and routed through the IX system for maintenance from 8:17 am to 11:55 am.
 4: On 12/19, LS #1 offline from 8:29 am to 12:17 pm due to maintenance.
 5: On 12/16, PC-119 offline from 5:42 pm to 10: 56 am on 12/17 due to instrument error.
 6: Duplicates taken on 12/10 for well PC-120; average of both values is presented and used for calculations.

Table 2 - Athens Well Field (AWF) Operational Metrics

Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics																	
Date	LS #3 Flow (gpm)	ART-1/1A		ART-2/2A		ART-3/3A		ART-4/4A		ART-9		ART-7A/7B		ART-8/8A		PC-150	
		Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ⁴ (gpm)	Water Elevation (ft amsl)
12/01/18	402	38	1583.20	152	1581.88	18	1583.51	2.8	1579.22	61	1578.64	18	1584.11	181	1582.76	1.5	1576.31
12/02/18	402	38	1583.19	151	1581.88	19	1583.50	2.8	1579.22	62	1578.70	18	1584.08	180	1582.76	1.5	1576.30
12/03/18 ²	297	39	1583.19	149	1581.87	19	1583.50	3.1	1579.22	61	1579.02	18	1584.08	180	1582.76	1.5	1576.30
12/04/18	400	38	1583.19	151	1581.88	18	1583.50	2.8	1579.22	61	1579.05	17	1584.11	180	1582.76	1.5	1576.30
12/05/18	400	37	1583.19	151	1581.87	19	1583.50	2.8	1579.22	61	1578.78	18	1584.08	179	1582.75	1.5	1576.31
12/06/18	400	38	1583.19	151	1581.87	18	1583.50	2.7	1579.22	61	1578.74	18	1584.08	180	1582.75	1.5	1576.31
12/07/18	401	38	1583.18	151	1581.86	18	1583.50	2.8	1579.22	61	1578.81	18	1584.11	180	1582.75	1.5	1576.30
12/08/18	402	38	1583.17	151	1581.86	19	1583.50	2.8	1579.22	61	1578.94	18	1584.08	180	1582.75	1.5	1576.30
12/09/18	401	39	1583.17	152	1581.86	18	1583.50	2.8	1579.22	62	1578.96	18	1584.08	180	1582.75	1.5	1576.30
12/10/18 ²	455	38	1583.18	152	1581.86	16	1583.50	2.6	1579.22	62	1578.96	20	1584.11	182	1582.75	1.5	1576.33
12/11/18	409	38	1583.17	151	1581.86	19	1583.50	2.8	1579.22	61	1578.99	18	1584.08	179	1582.74	1.5	1576.33
12/12/18	399	38	1583.17	151	1581.86	18	1583.49	2.7	1579.22	61	1578.95	18	1584.05	179	1582.74	1.5	1576.30
12/13/18	399	37	1583.16	151	1581.85	19	1583.49	2.8	1579.22	61	1578.99	18	1584.08	179	1582.73	1.5	1576.34
12/14/18	401	38	1583.16	151	1581.85	18	1583.49	2.8	1579.22	61	1579.02	18	1584.08	179	1582.73	1.5	1576.34
12/15/18	401	38	1583.15	151	1581.84	18	1583.48	2.8	1579.22	61	1578.96	17	1584.11	179	1582.73	1.5	1576.33
12/16/18	400	38	1583.15	151	1581.84	18	1583.48	2.8	1579.22	62	1578.96	18	1584.08	179	1582.72	1.5	1576.33
12/17/18 ²	321	38	1583.14	152	1581.83	16	1583.48	2.6	1579.22	60	1578.88	17	1584.05	177	1582.72	1.5	1576.35
12/18/18	399	38	1583.13	151	1581.82	19	1583.47	2.8	1579.22	61	1578.85	18	1584.11	179	1582.71	1.5	1576.35
12/19/18	398	37	1583.13	151	1581.82	18	1583.47	2.8	1579.22	61	1578.91	18	1584.08	179	1582.71	1.5	1576.34
12/20/18	398	37	1583.12	150	1581.81	18	1583.47	2.7	1579.22	61	1578.81	18	1584.08	178	1582.70	1.5	1576.34
12/21/18	399	37	1583.11	151	1581.80	18	1583.46	2.8	1579.22	61	1578.73	18	1584.08	178	1582.70	1.5	1576.31
12/22/18	399	38	1583.10	151	1581.79	18	1583.46	2.8	1579.22	61	1578.63	17	1584.08	178	1582.69	1.5	1576.31
12/23/18	399	38	1583.09	151	1581.78	18	1583.45	2.8	1579.21	62	1578.59	18	1584.08	178	1582.62	1.5	1576.31
12/24/18	399	38	1583.09	151	1581.79	18	1583.45	2.1	1579.22	62	1578.75	17	1584.11	178	1582.68	1.5	1576.31
12/25/18	399	38	1583.08	151	1581.78	18	1583.44	2.8	1579.22	62	1578.52	18	1584.11	176	1582.67	1.5	1576.31
12/26/18	398	37	1583.07	150	1581.77	18	1583.44	2.8	1579.22	62	1578.56	17	1584.08	176	1582.67	1.5	1576.31
12/27/18	398	36	1583.06	146	1581.76	18	1583.43	2.8	1579.21	62	1578.35	18	1584.08	176	1582.66	1.5	1576.31
12/28/18	397	37	1583.05	147	1581.75	18	1583.42	2.8	1579.21	62	1578.38	18	1584.05	176	1582.65	1.5	1576.31
12/29/18	388	37	1583.10	141	1581.81	17	1583.46	2.8	1579.22	58	1579.38	17	1584.08	169	1582.69	1.5	1576.33
12/30/18	400	37	1583.05	147	1581.76	18	1583.42	2.8	1579.21	62	1578.85	18	1584.05	176	1582.64	1.5	1576.33
12/31/18 ²	288	38	1583.03	149	1581.74	23	1583.40	2.6	1579.21	61	1578.31	17	1584.02	177	1582.62	1.5	1576.33
Monthly Average	392	38	1583.13	150	1581.83	18	1583.47	2.7	1579.22	61	1578.81	18	1584.08	178	1582.71	1.5	1576.32
Analytical ¹		Conc (mg/L)	Date	Conc (mg/L)	Date	Conc ² (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date
Perchlorate		24	12/19/2018	15	12/19/2018	205	12/19/2018	120	12/19/2018	190	12/19/2018	77	12/19/2018	91	12/19/2018	58	12/19/2018
Hexavalent Chromium		ND	12/19/2018	0.0078	12/19/2018	0.41	12/19/2018	0.19	12/19/2018	ND	12/19/2018	0.52	12/19/2018	0.11	12/19/2018	0.047	12/19/2018
Total Chromium		ND	12/19/2018	0.0080	12/19/2018	0.36	12/19/2018	0.17	12/19/2018	0.72	12/19/2018	0.49	12/19/2018	0.10	12/19/2018	0.044	12/19/2018

Notes:
 Flow reported as gpm is a daily average calculated from the totalizer reading.
 ND = Not detected above laboratory method detection limit (ClO₂ = 0.5 ug/L; ClO₃ = 10 ug/L; NO₃-N = 0.055 mg/L, Cr(VI) = 0.25 ug/L).
 ART-1, 2, 3, 4, 7B, and 8 have adjacent recovery wells, both of which can be used for extraction. The pumping well can be chosen manually or automatically, based on operational considerations. The wells with transducers are ART-1, -2, -3, -4, -7A, -8, -9, and PC-150.
 1: Analytical results are reported from TestAmerica.
 2: On 12/03, 12/10, 12/17, and 12/31, the LS #3 and AWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
 3: Duplicates taken on 12/19 for well ART-3A; average of both values is presented and used for calculations.
 4: Conducted periodic bucket tests to confirm flow rates for PC-150. Average flow of 1.5 gpm determined from flow tests is presented for 12/01-12/31 flows and used for calculation purposes. Flow was steady throughout the month but the totalizer showed zero flow because totalizer units are 1,000 gallons.

Table 3 - Interceptor Well Field (IWF) Operational Metrics

Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics																				
Date	I-AR		I-AA		I-AB		I-AC		I-AD		I-B		I-C		I-D		I-E		I-F	
	Flow (gpm)	Water Elevation (ft amsl)	Flow ³ (gpm)	Water Elevation (ft amsl)	Flow ⁴ (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ^{5,6,7,8} (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)
12/01/18	0.18	1722.77	1.0	1707.10	0.00	1718.98	0.00	1723.97	0.00	1731.73	0.46	1709.30	3.2	1707.45	1.2	1705.60	1.2	1708.41	3.4	1708.77
12/02/18	0.18	1722.84	1.0	1707.10	0.00	1718.98	0.00	1723.89	0.00	1731.71	0.46	1709.29	3.2	1707.56	1.2	1705.56	1.2	1708.41	3.4	1708.78
12/03/18 ²	0.17	1722.89	1.0	1707.09	0.00	1719.00	0.00	1723.88	0.00	1732.22	0.46	1709.30	3.2	1707.53	1.2	1705.59	1.2	1708.41	2.4	1708.97
12/04/18	0.18	1722.95	1.0	1707.09	0.00	1719.01	0.00	1723.91	0.00	1731.69	0.47	1709.30	3.2	1707.55	1.2	1705.58	1.2	1708.41	3.4	1708.78
12/05/18	0.18	1723.01	1.0	1707.09	0.00	1719.02	0.00	1723.93	0.00	1731.73	0.47	1709.30	3.2	1707.56	1.2	1705.58	1.2	1708.41	3.4	1709.27
12/06/18	0.17	1723.04	1.0	1707.10	0.00	1719.03	0.00	1723.87	0.00	1731.76	0.47	1709.30	3.2	1707.53	1.2	1705.53	1.2	1708.41	3.4	1709.17
12/07/18	0.17	1723.03	1.0	1707.10	0.00	1719.03	0.00	1723.87	0.00	1731.78	0.47	1709.30	3.2	1707.21	1.2	1705.56	1.2	1708.41	3.4	1708.78
12/08/18	0.17	1723.07	1.0	1707.10	0.00	1719.03	0.00	1723.86	0.00	1731.96	0.47	1709.30	3.2	1707.38	1.2	1705.60	1.2	1708.41	3.4	1708.77
12/09/18	0.17	1723.14	1.0	1707.34	0.00	1719.04	0.00	1723.87	0.00	1734.79	0.47	1709.30	3.2	1707.33	0.81	1719.56	1.2	1708.41	3.4	1708.78
12/10/18 ²	0.17	1723.19	1.0	1707.09	0.00	1719.04	0.00	1723.91	0.00	1735.52	0.49	1709.30	3.3	1707.83	0.59	1719.68	1.2	1708.41	4.1	1708.93
12/11/18	0.16	1723.24	1.0	1707.71	0.00	1719.05	0.00	1723.90	0.00	1736.48	0.47	1709.30	3.3	1707.76	0.56	1718.48	1.2	1708.41	3.4	1709.07
12/12/18	0.16	1723.21	1.0	1707.09	0.00	1719.05	0.00	1723.85	0.00	1736.91	0.47	1709.30	3.3	1707.79	0.65	1718.72	1.2	1708.41	3.4	1708.98
12/13/18	0.16	1723.27	1.0	1707.11	0.00	1719.04	0.00	1723.83	0.00	1737.74	0.47	1709.31	3.3	1707.86	1.00	1714.56	1.2	1708.41	3.4	1708.98
12/14/18	0.15	1723.51	1.0	1707.13	0.00	1719.05	0.00	1723.86	0.00	1738.64	0.47	1709.31	3.3	1707.83	0.92	1717.48	1.2	1708.41	3.4	1709.05
12/15/18	0.15	1723.51	1.0	1707.74	0.00	1719.07	0.00	1723.86	0.00	1739.03	0.48	1709.31	3.3	1707.82	0.92	1717.59	1.2	1708.41	3.4	1709.13
12/16/18	0.15	1723.53	1.0	1707.78	0.00	1719.09	0.00	1723.87	0.00	1739.42	0.48	1709.31	3.3	1707.78	1.0	1716.16	1.2	1708.41	3.4	1708.97
12/17/18 ²	0.15	1723.47	1.0	1708.58	0.02	1719.14	0.00	1723.85	0.00	1739.92	0.47	1709.31	3.3	1707.71	1.1	1710.19	1.2	1708.41	2.0	1709.76
12/18/18	0.15	1723.49	0.93	1707.21	0.00	1719.24	0.02	1723.63	0.03	1740.00	0.50	1709.32	3.3	1707.73	0.78	1710.27	1.2	1708.42	3.4	1708.78
12/19/18	0.15	1723.53	1.0	1708.66	0.00	1719.27	0.00	1723.67	0.00	1740.00	0.51	1709.32	3.3	1707.75	0.71	1710.20	1.2	1708.42	3.5	1708.78
12/20/18	0.15	1723.58	1.0	1709.53	0.00	1719.24	0.00	1723.71	0.00	1740.00	0.51	1709.31	3.3	1707.72	0.96	1716.40	1.2	1708.42	3.6	1709.08
12/21/18	0.15	1723.60	0.95	1707.78	0.00	1719.25	0.00	1723.70	0.00	1740.00	0.50	1709.32	3.3	1707.77	1.1	1717.46	1.2	1708.42	3.5	1708.77
12/22/18	0.14	1723.62	0.95	1709.90	0.00	1719.26	0.00	1723.67	0.00	1733.26	0.51	1709.33	3.3	1707.70	1.0	1717.13	1.2	1708.42	3.4	1709.12
12/23/18	0.14	1723.65	0.95	1709.62	0.00	1719.28	0.00	1723.68	0.00	1732.89	0.51	1709.32	3.3	1707.73	0.98	1714.80	1.2	1708.43	3.4	1708.77
12/24/18	0.14	1723.73	1.0	1708.94	0.00	1719.30	0.00	1723.73	0.00	1733.86	0.51	1709.33	3.3	1707.75	0.94	1715.46	1.2	1708.42	3.4	1708.77
12/25/18	0.14	1723.77	0.95	1710.18	0.00	1719.30	0.00	1723.70	0.00	1733.31	0.51	1709.33	3.3	1707.72	0.94	1715.66	1.2	1708.42	3.4	1709.05
12/26/18	0.14	1723.85	0.95	1708.11	0.00	1719.32	0.00	1723.66	0.00	1731.30	0.51	1709.33	3.3	1707.76	0.94	1715.54	1.2	1708.43	3.4	1709.64
12/27/18	0.14	1723.90	1.0	1707.15	0.00	1719.26	0.00	1723.65	0.00	1731.63	0.51	1709.34	3.3	1707.71	1.1	1715.58	1.2	1708.42	3.4	1708.77
12/28/18	0.14	1723.93	1.0	1707.08	0.00	1719.26	0.00	1723.59	0.00	1732.25	0.51	1709.34	3.3	1707.75	1.2	1715.64	1.2	1708.42	3.4	1708.77
12/29/18	0.13	1724.34	1.0	1707.17	0.00	1719.24	0.00	1723.62	0.00	1732.85	0.50	1709.35	3.1	1708.86	1.0	1716.16	1.1	1708.44	3.4	1708.78
12/30/18	0.13	1724.00	1.0	1707.14	0.13	< 1710.00	0.00	1723.70	0.00	1733.56	0.49	1709.35	3.3	1707.55	1.1	1714.78	1.2	1708.44	3.5	1708.79
12/31/18 ²	0.15	1723.89	1.2	1707.26	0.12	< 1710.00	0.00	1723.70	0.00	1734.43	0.42	1709.35	3.3	1707.64	1.1	1714.74	1.2	1708.44	2.0	1708.78
Monthly Average	0.16	1723.44	1.0	1707.74	0.01	1718.54	0.00	1723.79	0.00	1734.92	0.48	1709.32	3.2	1707.70	0.99	1713.12	1.2	1708.42	3.3	1708.94
Analytical ¹	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date
Perchlorate	770	12/17/2018	52	12/17/2018	140	12/17/2018	260	12/18/2018	140	12/18/2018	310	12/17/2018	580	12/17/2018	530	12/17/2018	430	12/17/2018	660	12/17/2018
Hexavalent Chromium	0.45	12/17/2018	0.054	12/17/2018	0.0023	12/17/2018	2.1	12/18/2018	1.4	12/18/2018	0.17	12/17/2018	2.9	12/17/2018	5.3	12/17/2018	5.9	12/17/2018	13	12/17/2018
Total Chromium	11	12/17/2018	0.068	12/17/2018	0.016	12/17/2018	2.1	12/18/2018	1.3	12/18/2018	0.16	12/17/2018	2.5	12/17/2018	4.6	12/17/2018	5.9	12/17/2018	12	12/17/2018

- Notes:
- Flow reported as gpm is a daily average calculated from the totalizer reading.
 - 1: Analytical results are reported from TestAmerica.
 - 2: On 12/03, 12/10, 12/17, and 12/31, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
 - 3: On 12/27, I-AA, I-D, I-L, I-M, I-N, I-R, and I-U adjusted to meet flow target as directed by the Trust.
 - 4: From 12/30-12/31, I-AB online intermittently due to instrument error.
 - 5: From 12/09-12/10, I-D offline intermittently due to maintenance.
 - 6: On 12/12, I-D, I-L, I-M, I-N, and I-U adjusted to meet flow target as directed by the Trust.
 - 7: On 12/29, I-D, I-L, I-M, I-N, and I-R adjusted to meet flow target as directed by the Trust.
 - 8: On 12/20, I-D, I-L, I-N, and I-R adjusted to meet flow target as directed by the Trust.

Table 3 - Interceptor Well Field (IWF) Operational Metrics

Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics																				
Date	I-G		I-H		I-I		I-J		I-K		I-L		I-M		I-N		I-O		I-P	
	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ^{3,6,7,8} (gpm)	Water Elevation (ft amsl)	Flow ^{3,6,7,8} (gpm)	Water Elevation (ft amsl)	Flow ^{3,6,7,8} (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)
12/01/18	0.12	1711.22	0.93	1709.22	4.9	1720.95	6.1	1712.01	3.4	1710.18	1.0	1713.79	2.0	1716.68	2.3	1714.00	1.4	1715.21	1.7	1709.46
12/02/18	0.12	1711.24	0.93	1709.22	4.9	1720.91	6.1	1712.01	3.4	1709.29	1.0	1713.83	2.0	1716.69	2.3	1714.04	1.3	1715.18	1.7	1709.47
12/03/18 ²	0.21	1711.24	0.92	1709.22	5.0	1720.92	6.0	1712.01	2.3	1709.99	1.0	1714.11	1.9	1716.75	2.4	1714.09	1.4	1715.21	1.7	1709.57
12/04/18	0.12	1711.24	0.92	1709.22	5.0	1720.94	6.0	1712.02	3.4	1710.06	0.97	1714.31	1.9	1716.80	2.4	1714.29	1.3	1715.11	1.7	1709.48
12/05/18	0.13	1711.24	0.92	1709.23	5.0	1720.96	6.1	1712.01	3.4	1709.27	0.96	1714.37	1.9	1716.84	2.3	1714.60	1.4	1715.12	1.7	1709.45
12/06/18	0.12	1711.24	0.92	1709.23	5.0	1720.95	6.1	1712.02	3.4	1709.50	1.0	1714.43	1.9	1716.86	2.3	1714.71	1.4	1715.11	1.7	1709.57
12/07/18	0.12	1711.22	0.92	1709.23	5.0	1720.93	6.1	1712.02	3.4	1709.84	0.95	1714.60	1.9	1716.86	2.3	1714.82	1.3	1715.11	1.7	1709.47
12/08/18	0.12	1711.23	0.92	1709.23	4.9	1720.92	6.1	1712.02	3.4	1710.04	0.93	1714.79	1.9	1716.87	2.3	1714.90	1.3	1715.23	1.7	1709.57
12/09/18	0.12	1711.24	0.93	1709.23	4.9	1720.94	6.1	1712.02	3.4	1709.24	0.93	1714.62	1.9	1717.01	2.3	1714.75	1.3	1715.11	1.7	1709.63
12/10/18 ²	0.23	1711.23	0.97	1709.24	5.0	1720.96	5.9	1712.02	4.5	1709.39	0.94	1714.75	1.9	1717.21	2.3	1714.84	1.4	1715.10	1.5	1709.43
12/11/18	0.13	1711.24	0.93	1709.23	5.0	1720.97	6.1	1712.02	3.4	1709.47	0.92	1715.02	1.9	1717.33	2.3	1714.99	1.4	1715.10	1.8	1709.74
12/12/18	0.12	1711.24	0.93	1709.23	5.0	1720.95	6.1	1712.02	3.4	1709.53	0.97	1713.36	1.9	1716.73	2.4	1712.69	1.4	1715.10	1.8	1709.48
12/13/18	0.12	1711.23	0.92	1709.23	5.0	1720.93	6.0	1712.02	3.4	1709.50	1.2	1714.45	2.1	1716.68	2.6	1713.21	1.3	1715.11	1.7	1709.48
12/14/18	0.12	1711.23	0.92	1709.23	5.0	1720.95	6.1	1712.02	3.4	1710.60	1.2	1712.31	2.1	1716.67	2.4	1713.80	1.4	1715.12	1.7	1709.44
12/15/18	0.12	1711.23	0.92	1709.23	4.9	1720.95	6.1	1712.02	3.4	1709.13	1.1	1714.10	2.1	1716.72	2.5	1713.95	1.4	1715.11	1.7	1709.53
12/16/18	0.12	1711.23	0.93	1709.23	4.9	1720.97	6.1	1712.02	3.4	1709.98	0.95	1714.58	2.0	1716.80	2.5	1713.66	1.4	1715.10	1.7	1709.74
12/17/18 ²	0.23	1711.24	0.93	1709.26	5.0	1720.96	6.2	1712.02	3.1	1710.19	0.89	1715.17	2.1	1716.70	2.4	1713.88	1.4	1715.12	1.2	1709.84
12/18/18	0.12	1711.24	0.93	1709.27	5.0	1720.96	6.1	1712.02	3.4	1709.58	0.65	1717.91	1.9	1717.17	1.9	1717.06	1.4	1715.11	1.7	1709.67
12/19/18	0.12	1711.23	0.93	1709.28	5.0	1720.95	6.1	1712.02	3.4	1710.78	0.61	1717.83	1.9	1717.25	1.8	1717.27	1.4	1715.11	1.7	1709.51
12/20/18	0.12	1711.23	0.93	1709.28	5.0	1720.97	6.1	1712.02	3.4	1709.80	0.93	1713.33	1.9	1717.27	2.4	1712.59	1.4	1715.67	1.8	1709.44
12/21/18	0.13	1711.23	0.94	1709.28	5.0	1720.98	6.1	1712.02	3.5	1710.05	1.1	1713.99	1.9	1717.24	2.7	1712.55	1.4	1716.66	1.8	1709.80
12/22/18	0.12	1711.23	0.94	1709.28	4.9	1720.95	6.1	1712.02	3.4	1709.83	1.0	1714.36	1.9	1717.29	2.6	1712.56	1.4	1715.11	1.8	1709.51
12/23/18	0.12	1711.23	0.94	1709.27	4.9	1720.97	6.1	1712.02	3.4	1710.00	1.0	1714.33	1.9	1717.31	2.6	1712.76	1.4	1715.75	1.8	1709.64
12/24/18	0.12	1711.24	0.94	1709.28	4.9	1721.00	6.1	1712.02	3.4	1709.39	1.0	1714.49	1.9	1717.35	2.6	1712.85	1.4	1717.85	1.8	1709.44
12/25/18	0.13	1711.24	0.94	1709.28	4.9	1721.00	6.1	1712.02	3.4	1710.27	1.0	1714.63	1.9	1717.39	2.6	1712.94	1.4	1717.79	1.8	1709.44
12/26/18	0.12	1711.23	0.94	1709.27	5.0	1720.97	6.1	1712.02	3.4	1709.84	0.95	1715.29	1.9	1717.42	2.6	1713.00	1.4	1717.04	1.8	1709.44
12/27/18	0.12	1711.23	0.94	1709.28	5.2	1720.97	6.1	1712.02	3.4	1709.98	1.1	1713.88	2.0	1716.78	2.6	1712.57	1.4	1715.65	1.8	1709.44
12/28/18	0.12	1711.23	0.93	1709.31	5.2	1720.94	6.1	1712.02	3.4	1709.58	1.2	1712.12	2.1	1716.78	2.6	1712.57	1.4	1715.11	1.8	1709.51
12/29/18	0.12	1711.26	0.91	1709.28	4.8	1721.04	5.7	1712.04	3.3	1710.24	1.1	1713.08	2.0	1716.50	2.5	1713.03	1.3	1717.81	1.7	1709.46
12/30/18	0.13	1711.26	0.94	1709.28	5.2	1721.03	6.1	1712.03	3.5	1710.08	1.2	1712.94	2.1	1716.54	2.6	1712.92	1.4	1717.96	1.9	1709.46
12/31/18 ²	0.22	1711.26	0.93	1709.28	5.1	1720.98	6.0	1712.03	3.1	1710.12	1.1	1712.90	2.2	1716.49	2.6	1712.66	1.4	1715.12	2.0	1709.59
Monthly Average	0.14	1711.24	0.93	1709.25	5.0	1720.96	6.1	1712.02	3.4	1709.83	1.0	1714.09	2.0	1716.93	2.4	1713.82	1.4	1715.64	1.7	1709.54
Analytical ¹	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date
Perchlorate	1,400	12/17/2018	990	12/17/2018	770	12/18/2018	340	12/18/2018	250	12/18/2018	340	12/17/2018	680	12/17/2018	520	12/17/2018	870	12/17/2018	890	12/17/2018
Hexavalent Chromium	19	12/17/2018	14	12/17/2018	9.2	12/18/2018	3.7	12/18/2018	2.2	12/18/2018	1.3	12/17/2018	5.7	12/17/2018	6.3	12/17/2018	16	12/17/2018	14	12/17/2018
Total Chromium	19	12/17/2018	14	12/17/2018	9.0	12/18/2018	3.8	12/18/2018	2.2	12/18/2018	1.2	12/17/2018	5.9	12/17/2018	6.4	12/17/2018	15	12/17/2018	14	12/17/2018

Notes:

- Flow reported as gpm is a daily average calculated from the totalizer reading.
- 1: Analytical results are reported from TestAmerica.
- 2: On 12/03, 12/10, 12/17, and 12/31, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
- 3: On 12/27, I-AA, I-D, I-L, I-M, I-N, I-R, and I-U adjusted to meet flow target as directed by the Trust.
- 6: On 12/12, I-D, I-L, I-M, I-N, and I-U adjusted to meet flow target as directed by the Trust.
- 7: On 12/29, I-D, I-L, I-M, I-N, and I-R adjusted to meet flow target as directed by the Trust.
- 8: On 12/20, I-D, I-L, I-N, and I-R adjusted to meet flow target as directed by the Trust.

Table 3 - Interceptor Well Field (IWF) Operational Metrics

Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics																		
Date	I-Q		I-R		I-S		I-T		I-U		I-V		I-W		I-X		I-Z	
	Flow (gpm)	Water Elevation (ft amsl)	Flow ^{3,7,8} (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ^{3,4} (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation ⁹ (ft amsl)
12/01/18	0.40	1714.51	1.2	1711.71	1.8	1705.76	0.44	1707.64	0.73	1709.69	4.2	1717.62	0.68	1700.60	3.1	1698.25	1.3	1700.36
12/02/18	0.39	1714.51	1.2	1712.01	1.8	1705.69	0.44	1707.64	0.72	1709.61	4.2	1717.54	0.68	1700.39	3.1	1698.27	1.3	1700.31
12/03/18 ²	0.32	1714.51	1.2	1712.43	1.9	1705.85	0.44	1707.64	0.74	1709.24	4.2	1717.56	0.69	1700.44	3.7	1698.40	1.4	1700.33
12/04/18	0.39	1714.51	1.2	1712.61	1.8	1705.89	0.44	1707.63	0.73	1709.45	4.3	1717.59	0.68	1700.49	3.1	1698.36	1.3	1700.37
12/05/18	0.40	1714.51	1.1	1713.18	1.8	1705.87	0.44	1707.64	0.73	1709.43	4.3	1717.63	0.68	1700.47	3.1	1698.39	1.3	1700.36
12/06/18	0.40	1714.51	1.1	1713.10	1.8	1705.78	0.44	1707.64	0.73	1709.38	4.2	1717.61	0.68	1700.43	3.1	1698.28	1.3	1700.40
12/07/18	0.40	1714.51	1.1	1713.08	1.8	1705.91	0.44	1707.64	0.73	1709.43	4.2	1717.57	0.68	1700.51	3.1	1698.42	1.3	1700.29
12/08/18	0.39	1714.51	1.1	1716.16	1.8	1705.85	0.44	1707.64	0.67	1711.23	4.2	1717.56	0.68	1700.45	3.1	1698.27	1.3	1700.35
12/09/18	0.40	1714.51	1.1	1713.08	1.8	1705.92	0.44	1707.64	0.64	1711.54	4.2	1717.60	0.68	1700.53	3.1	1698.35	1.3	1700.17
12/10/18 ²	0.34	1714.51	1.2	1712.85	2.0	1705.69	0.44	1707.64	0.61	1711.97	4.2	1717.69	0.67	1700.33	3.5	1698.27	1.4	1699.70
12/11/18	0.40	1714.51	1.1	1712.74	1.8	1705.75	0.45	1707.65	0.62	1712.06	4.2	1717.71	0.68	1700.50	3.1	1698.32	1.3	1700.29
12/12/18	0.40	1714.51	1.1	1713.19	1.9	1705.93	0.44	1707.64	0.65	1707.83	4.2	1717.66	0.68	1700.53	3.1	1698.32	1.3	1700.34
12/13/18	0.39	1714.51	1.1	1713.36	1.8	1705.91	0.44	1707.65	0.79	1708.06	4.2	1717.64	0.68	1700.37	3.1	1698.39	1.3	1700.35
12/14/18	0.40	1714.51	1.1	1713.29	1.8	1705.80	0.44	1707.65	0.77	1708.48	4.2	1717.66	0.68	1700.41	3.1	1698.39	1.3	1700.31
12/15/18	0.40	1714.51	1.1	1713.65	1.8	1705.78	0.44	1707.64	0.76	1708.68	4.2	1717.69	0.68	1700.51	3.1	1698.41	1.3	1700.39
12/16/18	0.40	1714.51	1.1	1713.92	1.8	1705.74	0.44	1707.65	0.74	1709.24	4.2	1717.72	0.68	1700.10	3.1	1698.42	1.3	1700.36
12/17/18 ²	0.20	1714.51	0.98	1714.91	2.0	1705.74	0.49	1707.64	0.71	1710.00	4.2	1717.69	0.66	1700.38	3.3	1698.28	1.2	1699.97
12/18/18	0.40	1714.51	0.73	1717.02	1.9	1705.74	0.44	1707.70	0.61	1712.24	4.2	1717.77	0.68	1700.43	3.1	1698.28	1.4	1700.00
12/19/18	0.40	1714.51	0.66	1717.07	1.9	1705.77	0.44	1707.70	0.60	1712.01	4.2	1717.76	0.68	1700.40	3.2	1698.30	1.4	1700.06
12/20/18	0.40	1714.51	0.79	1715.99	1.9	1705.78	0.44	1707.71	0.61	1712.49	4.2	1717.81	0.68	1700.42	3.2	1698.27	1.4	1700.17
12/21/18	0.40	1714.51	0.78	1716.55	1.9	1705.70	0.45	1707.71	0.58	1712.63	4.2	1717.82	0.68	1700.34	3.1	1698.39	1.4	1700.11
12/22/18	0.40	1714.51	0.73	1716.71	1.9	1705.75	0.44	1707.71	0.59	1712.76	4.2	1717.77	0.68	1700.45	3.1	1698.29	1.4	1700.07
12/23/18	0.40	1714.51	0.68	1716.92	1.9	1705.70	0.45	1707.70	0.58	1712.88	4.2	1717.80	0.67	1700.43	3.1	1698.43	1.4	1699.94
12/24/18	0.40	1714.51	0.67	1716.98	1.9	1705.70	0.45	1707.71	0.57	1712.97	4.2	1717.90	0.68	1700.46	3.1	1698.30	1.4	1699.99
12/25/18	0.41	1714.51	0.65	1717.01	1.9	1705.77	0.45	1707.72	0.56	1713.28	4.2	1717.88	0.69	1700.49	3.1	1698.43	1.4	1700.10
12/26/18	0.40	1714.51	0.64	1717.13	1.9	1705.73	0.45	1707.72	0.53	1713.32	4.2	1717.83	0.69	1700.50	3.1	1698.39	1.4	1700.06
12/27/18	0.40	1714.51	0.76	1716.31	1.9	1705.72	0.45	1707.71	0.72	1707.91	4.2	1717.82	0.68	1700.52	3.1	1698.26	1.4	1700.08
12/28/18	0.40	1714.51	0.68	1717.07	1.9	1705.75	0.44	1707.71	0.79	1708.59	4.2	1717.73	0.67	1700.52	3.1	1698.27	1.4	1700.04
12/29/18	0.39	1714.52	0.94	1712.90	1.9	1705.90	0.42	1707.76	0.67	1710.52	3.9	1717.95	0.62	1700.91	3.0	1698.35	1.3	1700.35
12/30/18	0.41	1714.52	1.3	1712.61	1.9	1705.99	0.46	1707.76	0.70	1710.42	4.2	1717.93	0.69	1700.45	3.2	1698.28	1.3	1700.46
12/31/18 ²	0.56	1714.52	1.3	1712.28	1.9	1705.86	0.45	1707.76	0.70	1710.45	4.3	1717.77	0.70	1700.56	2.7	1698.27	1.3	1700.51
Monthly Average	0.39	1714.51	0.98	1714.45	1.9	1705.80	0.44	1707.68	0.67	1710.57	4.2	1717.72	0.68	1700.46	3.1	1698.33	1.3	1700.21
Analytical ¹	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date
Perchlorate	770	12/17/2018	760	12/17/2018	450	12/17/2018	1,400	12/17/2018	1,300	12/17/2018	915	12/18/2018	830	12/17/2018	860	12/17/2018	650	12/17/2018
Hexavalent Chromium	15	12/17/2018	0.72	12/17/2018	1.7	12/17/2018	19	12/17/2018	18	12/17/2018	13	12/18/2018	15	12/17/2018	9.1	12/17/2018	1.2	12/17/2018
Total Chromium	14	12/17/2018	0.64	12/17/2018	1.4	12/17/2018	17	12/17/2018	17	12/17/2018	12	12/18/2018	14	12/17/2018	8.9	12/17/2018	1.0	12/17/2018

Notes:
 Flow reported as gpm is a daily average calculated from the totalizer reading.
 1: Analytical results are reported from TestAmerica.
 2: On 12/03, 12/10, 12/17, and 12/31, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
 3: On 12/27, I-AA, I-D, I-L, I-M, I-N, I-R, and I-U adjusted to meet flow target as directed by the Trust.
 6: On 12/12, I-D, I-L, I-M, I-N, and I-U adjusted to meet flow target as directed by the Trust.
 7: On 12/29, I-D, I-L, I-M, I-N, and I-R adjusted to meet flow target as directed by the Trust.
 8: On 12/20, I-D, I-L, I-N, and I-R adjusted to meet flow target as directed by the Trust.
 9: Duplicates taken on 12/18 for well I-V; average of both values is presented and used for calculations.
 10: A "<" preceding the water elevation indicates the reported water level is below the transducer. Average monthly water elevation calculations include the transducer elevation in instances where the water level is below the transducer.

Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics																
Date	LS #2	GWTP Effluent ⁵				GW-11 Influent ¹				FBR Plant Influent ⁷						
	Flow ⁴ (gpm)	Flow (gpm)	TA - Cr (TR) (mg/L)	TA - Cr (VI) (mg/L)	TA - ClO ₂ (mg/L)	Flow ⁶ (gpm)	TA - Cr (TR) (mg/L)	TA - Cr (VI) (mg/L)	TA - ClO ₂ (mg/L)	Flow ^{6 7} (gpm)	TA - ClO ₂ (mg/L)	ETI - ClO ₂ (mg/L)	TA - ClO ₂ (mg/L)	TA - NO ₃ - N (mg/L)	TA - Cr (TR) (mg/L)	TA - Cr (VI) (mg/L)
12/01/18	943	55				0.00				1,037	270	252				
12/02/18	946	55				0.00				1,039		253				
12/03/18 ³	963	55				0.00				1,052		253	140	9.2	0.058	0.044
12/04/18	944	55				0.00				1,015		155				
12/05/18	945	55	0.16	ND	730	0.00				1,027		255				
12/06/18	945	55				0.00				1,031		247				
12/07/18	944	55				0.00				1,028		243				
12/08/18	944	55				0.00				1,031	270	242				
12/09/18	954	57				0.00				1,042		244				
12/10/18 ³	1,018	58				0.00				1,102		246		11	0.011	0.0082
12/11/18	965	55				0.00				1,060		240				
12/12/18	953	55	0.35	ND	680	0.00				1,032		241				
12/13/18	945	55				0.00				1,019		226				
12/14/18	941	56				0.00				1,009		212				
12/15/18	943	55				0.00				998	280	227				
12/16/18	947	55				0.00				1,015		244				
12/17/18 ³	930	56				0.00				987		240				
12/18/18	946	55				4.1	0.067	0.050	54	1,009		237		10	0.029	0.027
12/19/18	873	54	1.0	ND	700	0.00				1,022		263				
12/20/18	962	55				0.00				1,025		266				
12/21/18	960	56				0.00				1,102		253				
12/22/18	960	57				0.00				1,052	250	245				
12/23/18	960	55				0.00				1,060		239				
12/24/18	965	55				0.00				1,060		240				
12/25/18	960	55				0.00				1,117		249				
12/26/18	958	55	1.7	1.3	600	0.00				1,033		258		11	0.14	0.13
12/27/18	960	55	0.57	ND	660	0.00				1,045		234				
12/28/18	960	56				0.00				1,098		245				
12/29/18	934	52				0.00				1,005	240	245				
12/30/18	961	57				0.00				1,160		247				
12/31/18 ³	1,062	56				0.00				1,118		253				
Monthly Average ²	954	55	0.66	0.167163	684	0.13	0.067	0.050	54	1,046	262	242	140	10	0.071	0.064

Notes:

Flow reported as gpm is a daily average calculated from the totalizer reading. The only exceptions are the instantaneous flow readings recorded for the 1st and 2nd Stage FBR flows.
 ND = Not detected above laboratory method detection limit (ClO₂ = 0.5 ug/L; ClO₃ = 10 ug/L; NO₃-N = 0.055 mg/L, Cr(VI) = 0.25 ug/L).

1: ETI = Envirogen internal process control data, TA = TestAmerica data.

2: All average concentrations reported are monthly flow weighted averages.

3: On 12/03, 12/10, 12/17, and 12/31, the LS #2 totalizers was reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.

4: On 12/19, LS #2 flows reduced due to LS #1 being offline from 8:29 am to 12:17 pm for maintenance.

5: The laboratory sample results for GWTP Effluent on 12/26 did not match ETI's in house results; therefore, an additional sample was collected on 12/27.

6: Flows bypassed GW-11 Influent and FBR Plant Influent totalizers from 12/01 to 12/31 due to FBR plant influent strainers clogging, except for monthly sampling.

7: From 12/01 to 12/31, the FBR Plant Influent Flow was estimated by summing flows for LS #2, GWTP Effluent, and GW-11 Effluent.

Table 4 - Treatment Plant Operational Metrics

Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics														
Date	1st Stage FBR ⁸			2nd Stage FBR ⁸			FBR Plant Effluent ⁹							
	Flow (gpm)	pH (s.u.)	ORP (mV)	Flow (gpm)	pH (s.u.)	ORP (mV)	Flow ⁹ (gpm)	TA - ClO ₂ (mg/L)	ETI - ClO ₂ (mg/L)	TA - ClO ₃ (mg/L)	TA - Cr (TR) (mg/L)	TA - Cr (VI) (mg/L)	TA - NO ₃ - N (mg/L)	ETI - Turbidity (NTU)
12/01/18	1,125	7.0	-397	888	7.0	-365	1,086	ND	ND					11
12/02/18	1,127	6.8	-369	906	7.0	-366	1,100	ND	ND					12
12/03/18	1,124	6.5	-356	787	7.0	-369	1,102	ND	ND	ND	0.0081	ND	1.3 J	13
12/04/18	1,111	6.5	-346	1,112	6.4	-351	991	ND	ND					9
12/05/18	1,112	6.6	-379	949	6.5	-356	1,097	ND	ND					9
12/06/18	1,128	6.6	-385	968	6.5	-363	1,097	ND	ND					6
12/07/18	1,123	6.6	-381	1,042	6.5	-341	987	ND	ND					8
12/08/18	1,144	6.6	-390	954	6.5	-352	1,091	ND	ND					6
12/09/18	1,121	6.6	-392	860	6.6	-358	1,094	ND	ND					9
12/10/18	1,129	6.7	-395	986	6.7	-362	1,095	ND	ND		0.0047 J	ND	ND	9
12/11/18	1,137	6.6	-352	904	6.7	-351	1,093	ND	ND					14
12/12/18	1,118	6.6	-369	890	6.7	-358	1,083	ND	ND					9
12/13/18	1,101	6.5	-366	917	6.6	-359	1,080	ND	ND					9
12/14/18	1,107	6.6	-391	910	6.7	-365	1,069	ND	ND					5
12/15/18	1,090	6.5	-379	941	6.6	-367	1,059	ND	ND					5
12/16/18	1,115	6.6	-386	882	6.7	-366	1,069	ND	ND					10
12/17/18	1,108	6.5	-396	929	6.8	-370	1,063	ND	ND		0.017	0.00037 J	ND	13
12/18/18	1,090	6.5	-396	865	6.8	-369	1,056	ND	ND					10
12/19/18	1,074	6.6	-378	887	6.9	-372	1,041	ND	ND					10
12/20/18	1,137	6.6	-365	943	6.9	-369	1,071	ND	ND					5
12/21/18	1,127	6.7	-365	974	7.0	-371	1,095	ND	ND					7
12/22/18	1,151	6.7	-393	971	7.0	-374	1,087	ND	ND					12
12/23/18	1,127	6.5	-392	918	6.9	-374	1,088	ND	ND					9
12/24/18	1,122	6.5	-397	828	6.9	-375	1,091	ND	ND					6
12/25/18	1,126	6.7	-399	894	7.0	-376	1,089	ND	ND					9
12/26/18	1,130	6.4	-378	979	6.8	-373	1,044	ND	ND					10
12/27/18	1,123	6.5	-277	942	6.9	-305	1,091	ND	ND		0.012	ND	ND	11
12/28/18	1,126	6.5	-327	968	6.9	-323	1,098	ND	ND					8
12/29/18	1,141	6.4	-363	967	6.8	-331	928	ND	ND					7
12/30/18	1,121	6.5	-370	955	6.9	-339	1,103	ND	ND					5
12/31/18	1,133	6.4	-375	882	6.4	-349	1,076	ND	ND					4
Monthly Average ²	1,121	6.6	-374	929	6.8	-358	1,071	ND	ND	ND	0.0107	0.000083	0.25	8

Notes:

Flow reported as gpm is a daily average calculated from the totalizer reading. The only exceptions are the instantaneous flow readings recorded for the 1st and 2nd Stage FBR flows.

ND = Not detected above laboratory method detection limit (ClO₂ = 0.5 ug/L; ClO₃ = 10 ug/L; NO₃-N = 0.055 mg/L, Cr(VI) = 0.25 ug/L).

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

1: ETI = Envirogen internal process control data, TA = TestAmerica data.

2: All average concentrations reported are monthly flow weighted averages.

8: For 1st and 2nd stage FBRs, flow measurements are collected from the influent lines and pH and ORP samples are collected from the recycle lines.

9: FBR Plant Effluent represents effluent discharged to Las Vegas Wash. While this may represent the entirety of the FBR Plant effluent, any diversions to GW-11 are subtracted from the original effluent flow.

GW-11 Level Monitoring		
Date	Field Measurement (ft)	Volume (MG)
12/15/18	31.1	35.2
12/31/18	30.5	36.0

GW-11 Leak Detection Monitoring				
Date	Amount Pumped ¹ (gallons)			
	NW Corner	NE Corner	SW Corner	SE Corner
12/12/18	0	114	685	0
12/26/18	0	150	663	0

GW-11 Composite Sample ²		
Analytes	Concentration	Units
Perchlorate	5.7	mg/L
Chlorate	8.2	mg/L
Ammonia as N	0.40	mg/L
Total Phosphorus	1.5	mg/L
Total Dissolved Solids (TDS)	11,000	mg/L
Total Suspended Solids (TSS)	86	mg/L
pH	8.4 HF	s.u.
Calcium	530 B	mg/L
Iron	5.2	mg/L
Chromium (total)	0.99	mg/L
Chromium VI	ND	mg/L
Chloride	3,400	mg/L
Nitrate as N	ND	mg/L
Sulfate	3,000	mg/L

Notes:

HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

B = Compound was found in the blank and sample.

ND = Not detected above laboratory method detection limit (NH₃-N = 0.1 mg/L; Total P = 0.025 ug/L; Cr(VI) = 0.25 ug/L).

1: Pumping occurs over three consecutive days. The total amount pumped over the three day period is listed with the last day pumping occurred.

2: GW-11 Corner Composite Sample is collected quarterly, most recent sampling results are presented. Sampled on: November 6, 2018.

Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics						
Date	Flow ¹ (gpm)	FBR Influent Concentration			Influent Function Load ³ (lbs/day)	6 Month Rolling Average (lbs/day)
		ClO ₄ ² (mg/L)	NO ₃ as N (mg/L)	ClO ₃ (mg/L)		
Jan 2018	1,031	249	13	150	1,021	920
Feb 2018	1,057	269	13	150	1,090	973
Mar 2018	1,094	168	13	130	836	978
Apr 2018	1,079	91	13	120	624	945
May 2018	1,044	116	12	150	719	894
June 2018	1,037	133	11	160	765	843
July 2018	1,028	113	11	150	691	788
Aug 2018	1,005	106	11	140	633	711
Sep 2018	1,030	117	10	150	691	687
Oct 2018	1,028	208	10	140	867	728
Nov 2018	1,042	262	10	130	979	771
Dec 2018	1,046	262	10	140	1,009	811

Notes:

Concentrations and flow are presented as monthly average.

1: Flow used in loading calculation is average monthly FBR effluent flow to be consistent with historical loading calculations.

2: Treatment of AP-5 wash water began on July 17, 2017 and was suspended on August 4, 2017 to allow Envirogen to evaluate internal process controls to meet discharge limits. Treatment of AP-5 wash water resumed on August 31, 2017. The AP-5 wash water feed rate was decreased on March 13, 2018 to prepare for the lower seasonal ammonia permit limits beginning April 1. The AP-5 wash water feed rate was increased on October 1, 2018 in accordance with the higher seasonal ammonia permit limits beginning October 1.

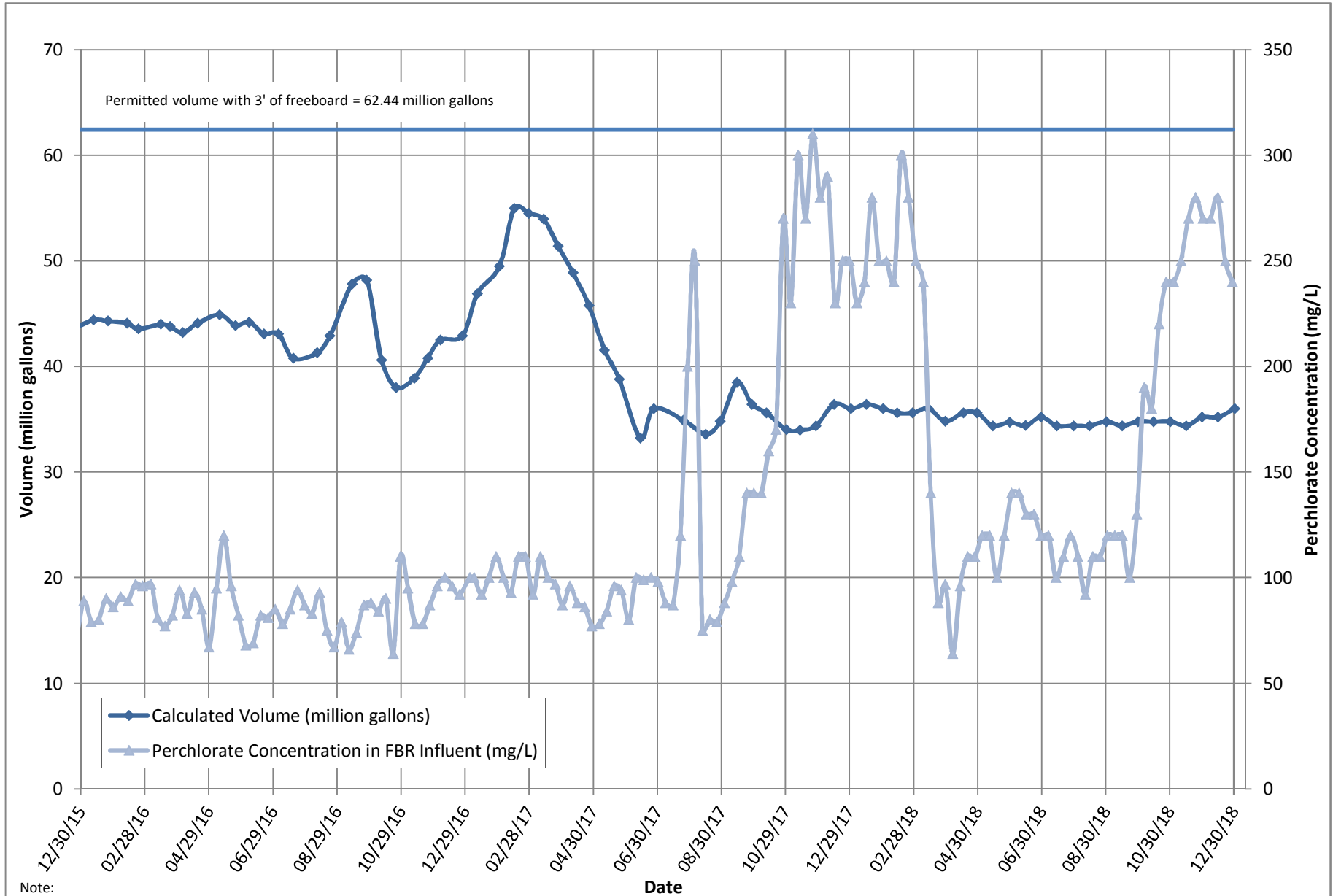
3: FBR loading calculated as $[(0.9 \cdot \text{NO}_3 \text{ as N} + 0.17 \cdot \text{ClO}_3 + 0.18 \cdot \text{ClO}_4) \cdot \text{Flow} \cdot 1440 / 1000000 \cdot 8.34]$.

Table 7 - AP Area Operational Metrics

Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics																
Date	E1-1		E1-2		E1-3		E2-1		E2-2		E2-3		E2-4		E2-5	
	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)
12/01/18	2.2	1711.23	0.62	1710.84	0.63	1711.10	0.57	1709.45	1.2	1714.97	1.3	1716.73	1.2	1712.75	0.22	1712.00
12/02/18	2.2	1710.97	0.63	1710.93	0.63	1711.04	0.71	1717.94	1.2	1714.47	1.3	1716.27	1.2	1716.59	0.75	1714.48
12/03/18	2.2	1711.42	0.64	1710.95	0.62	1711.12	0.76	1717.62	1.2	1715.91	1.4	1719.85	1.2	1717.19	0.33	1716.43
12/04/18	2.2	1710.47	0.65	1711.03	0.60	1711.08	0.73	1716.83	1.2	1715.78	1.3	1717.95	1.2	1717.20	0.32	1716.14
12/05/18	2.2	1710.56	0.68	1710.77	0.64	1711.12	0.72	1717.07	1.2	1716.42	1.3	1718.96	1.2	1717.70	0.32	1716.87
12/06/18	2.2	1710.54	0.66	1710.95	0.61	1711.11	0.85	1717.14	1.2	1716.51	1.4	1718.84	1.2	1717.41	0.31	1717.12
12/07/18	2.1	1710.63	0.66	1710.34	0.64	1710.50	0.83	1714.41	1.1	1716.30	1.3	1718.95	1.2	1718.00	0.30	1717.20
12/08/18	2.2	1710.57	0.66	1710.21	0.63	1710.37	0.85	1714.55	1.1	1716.44	1.3	1718.37	1.2	1717.89	0.31	1717.44
12/09/18	2.2	1711.63	0.66	1710.03	0.64	1710.19	0.86	1714.42	1.1	1717.28	1.1	1720.17	1.1	1717.59	0.31	1717.17
12/10/18	2.2	1710.91	0.67	1711.60	0.65	1711.76	0.84	1714.88	1.1	1717.22	1.2	1721.05	1.2	1718.51	0.31	1718.02
12/11/18	2.2	1710.93	0.70	1711.62	0.62	1711.78	0.77	1714.90	1.1	1717.47	1.2	1720.30	1.2	1717.73	0.29	1717.56
12/12/18	2.2	1711.28	0.68	1711.64	0.63	1711.80	0.77	1716.70	1.2	1717.70	1.3	1721.21	1.2	1718.06	0.35	1718.63
12/13/18	2.1	1711.23	0.69	1709.36	0.62	1711.82	0.77	1716.57	1.2	1716.42	1.2	1720.55	1.2	1717.90	0.35	1716.11
12/14/18	2.1	1710.61	0.63	1710.61	0.60	1711.52	0.76	1715.76	1.2	1714.87	1.3	1718.79	1.3	1717.61	0.35	1716.30
12/15/18	2.1	1710.82	0.73	1709.48	0.59	1711.03	0.82	1714.82	1.2	1714.74	1.1	1717.30	1.2	1717.89	0.37	1716.25
12/16/18	2.2	1710.69	0.69	1709.45	0.60	1711.13	0.77	1716.08	1.1	1716.27	1.4	1720.02	1.1	1717.64	0.36	1715.57
12/17/18	2.1	1711.08	0.69	1709.34	0.58	1712.68	0.79	1716.29	1.2	1716.41	1.4	1719.27	1.2	1717.82	0.35	1715.92
12/18/18	2.3	1711.72	0.75	1709.47	0.62	1710.93	0.85	1716.53	1.3	1716.40	1.5	1718.85	1.3	1717.93	0.38	1716.31
12/19/18	2.0	1711.74	0.65	1709.49	0.59	1710.91	0.72	1716.51	1.1	1716.38	1.3	1718.94	1.1	1718.00	0.33	1716.16
12/20/18	2.1	1711.72	0.63	1709.52	0.62	1710.86	0.77	1716.52	0.68	1716.72	1.4	1719.13	1.2	1717.99	0.35	1716.17
12/21/18	2.2	1711.52	0.75	1709.62	0.67	1710.70	0.78	1716.26	1.6	1715.99	1.5	1717.97	1.2	1717.09	0.37	1715.56
12/22/18	2.2	1711.33	0.72	1709.56	0.66	1710.47	0.80	1715.90	1.2	1715.82	1.4	1716.10	1.2	1716.45	0.37	1715.62
12/23/18	2.2	1711.20	0.73	1709.59	0.66	1710.54	0.77	1716.26	1.2	1716.60	1.1	1718.61	1.2	1717.46	0.68	1715.70
12/24/18	2.2	1711.33	0.73	1709.58	0.66	1710.52	0.76	1715.92	1.2	1716.30	1.0	1717.87	1.2	1716.88	0.05	1715.74
12/25/18	2.2	1711.35	0.74	1709.56	0.66	1710.50	0.77	1716.11	1.2	1715.86	0.97	1717.27	1.2	1716.46	0.36	1715.31
12/26/18	2.1	1711.37	0.70	1709.70	0.64	1710.65	0.72	1717.27	1.1	1717.25	0.92	1722.39	1.1	1718.33	0.35	1716.02
12/27/18	2.2	1711.33	0.79	1709.73	0.67	1710.65	0.80	1716.98	1.4	1717.88	1.3	1718.31	1.4	1718.08	0.35	1715.97
12/28/18	1.8	1711.26	0.69	1709.80	0.60	1710.70	0.60	1716.84	1.1	1716.84	0.82	1717.27	1.1	1717.78	0.20	1715.91
12/29/18	2.1	1711.65	0.83	1710.33	0.70	1711.09	0.73	1718.20	1.3	1722.71	1.0	1723.14	1.2	1719.27	0.41	1722.16
12/30/18	1.8	1716.65	0.74	1709.93	0.63	1710.89	0.67	1718.10	1.2	1717.50	0.97	1717.93	1.2	1718.17	0.40	1715.60
12/31/18	2.2	1716.62	0.87	1709.90	0.74	1710.92	0.77	1718.02	1.3	1717.49	1.0	1717.92	1.2	1718.11	0.45	1715.72
Monthly Average	2.1	1711.50	0.70	1710.11	0.63	1711.02	0.76	1716.15	1.2	1716.61	1.2	1718.91	1.2	1717.53	0.35	1716.36
Analytical ¹	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc ² (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date
Perchlorate	740	12/11/2018	1,800	12/11/2018	910	12/11/2018	165	12/11/2018	560	12/11/2018	1,000	12/11/2018	1,300	12/11/2018	1,800	12/11/2018
Hexavalent Chromium	0.041	12/11/2018	0.19	12/11/2018	0.41	12/11/2018	0.029	12/11/2018	0.027	12/11/2018	0.023	12/11/2018	0.029	12/11/2018	0.11	12/11/2018
Total Chromium	0.043	12/11/2018	0.19	12/11/2018	0.40	12/11/2018	0.030	12/11/2018	0.028	12/11/2018	0.032	12/11/2018	0.032	12/11/2018	0.11	12/11/2018

Notes:
 Flow reported as gpm is a daily average calculated from the totalizer reading.
 The flow rate at individual wells is adjusted daily to maintain the water level in the wells above the pump.
 1: Analytical results are reported from TestAmerica.
 2: Duplicates taken on 12/11 for well E2-1; average of both values is presented and used for calculations.

Figure 1 - GW-11 Pond Volume and FBR Influent Perchlorate Concentration



Note:

1. Treatment of AP-5 wash water began on July 17, 2017 and was suspended on August 4, 2017 to allow Envirogen to evaluate internal process controls to meet discharge limits. Treatment of AP-5 wash water resumed on August 31, 2017. The AP-5 wash water feed rate was decreased on March 13, 2018 to prepare for the lower seasonal ammonia permit limits beginning April 1. The AP-5 wash water feed rate was increased on October 1, 2018 in accordance with the higher seasonal ammonia permit limits beginning October 1.

Figure 2 - FBR Equivalent Loading Calculation

