

Table 1 - Seep Well Field (SWF) Operational Metrics

Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics																			
Date	LS #1	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)	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)
08/01/19	640	166	1535.69	84	1541.48	128	1541.26	109	1536.74	70	1545.57	99	1546.78	50	1547.87	19	1548.95	9.0	1520.56
08/02/19	632	165	1535.71	84	1542.22	129	1541.26	109	1536.75	70	1545.57	100	1546.80	50	1547.88	19	1548.96	9.7	1521.00
08/03/19	631	166	1535.71	84	1541.60	131	1541.26	110	1536.75	70	1545.58	101	1546.80	50	1547.89	19	1548.97	9.7	1521.15
08/04/19	631	167	1535.71	85	1541.80	131	1541.26	110	1536.75	71	1545.58	101	1546.80	50	1547.89	19	1548.97	9.8	1520.46
08/05/19 ²	631	167	1535.71	84	1541.10	131	1541.25	111	1536.75	70	1545.57	101	1546.80	50	1547.89	19	1548.97	9.8	1520.76
08/06/19	631	166	1535.72	84	1541.80	130	1541.26	110	1536.75	70	1545.58	101	1546.81	50	1547.89	19	1548.97	9.7	1520.58
08/07/19	631	161	1535.72	81	1541.11	126	1541.26	107	1536.76	68	1545.58	98	1546.81	48	1547.90	18	1548.97	9.1	1520.58
08/08/19	648	166	1535.90	85	1541.26	129	1541.28	110	1536.96	70	1545.58	100	1546.83	49	1547.90	19	1548.98	9.7	1520.91
08/09/19 ³	546	142	1536.35	74	1541.58	111	1541.54	94	1537.36	60	1545.79	86	1547.04	43	1548.10	16	1549.15	8.1	1521.76
08/10/19	646	168	1536.13	74	1538.40	132	1541.39	112	1537.18	72	1545.67	102	1547.99	50	1547.99	19	1549.06	9.9	1521.62
08/11/19	645	167	1536.07	74	1539.05	131	1541.35	110	1537.12	71	1545.64	101	1546.89	50	1547.97	19	1549.03	9.8	1521.50
08/12/19 ²	646	168	1536.05	74	1539.02	132	1541.33	111	1537.10	71	1545.62	102	1546.88	50	1547.95	19	1549.03	9.9	1521.43
08/13/19	650	166	1536.02	85	1539.06	130	1541.32	110	1537.08	70	1545.61	101	1546.87	50	1547.95	18	1549.02	9.7	1521.36
08/14/19	646	167	1536.02	86	1540.24	132	1541.31	111	1537.06	71	1545.58	102	1546.88	50	1547.94	19	1549.01	9.8	1521.37
08/15/19	648	164	1536.00	84	1539.86	128	1541.31	109	1537.03	69	1545.59	99	1546.85	50	1547.93	19	1549.00	10	1521.38
08/16/19	647	167	1535.97	85	1539.70	130	1541.28	110	1537.00	70	1545.57	101	1546.83	50	1547.92	19	1548.99	9.7	1521.33
08/17/19	648	167	1535.94	86	1539.64	131	1541.26	110	1536.98	70	1545.54	101	1546.82	50	1547.90	19	1548.98	9.7	1521.20
08/18/19	648	166	1535.94	85	1539.64	130	1541.26	110	1536.98	71	1545.54	101	1546.81	50	1547.93	19	1548.97	9.7	1521.20
08/19/19 ²	648	167	1535.92	86	1540.09	130	1541.25	110	1536.95	71	1545.53	101	1546.81	50	1547.90	19	1548.97	9.7	1521.33
08/20/19	628	167	1535.92	85	1539.72	130	1541.24	110	1536.96	70	1545.53	101	1546.81	50	1547.89	18	1548.96	9.7	1521.20
08/21/19	630	164	1535.37	85	1540.10	128	1541.24	108	1536.94	70	1545.53	98	1546.80	49	1547.89	18	1548.96	9.6	1521.21
08/22/19	640	167	1535.44	86	1539.95	130	1541.25	111	1537.00	70	1545.52	101	1546.80	50	1547.88	19	1548.95	9.8	1521.58
08/23/19	629	168	1535.39	87	1539.56	131	1541.21	111	1536.96	71	1545.48	102	1546.78	50	1547.85	19	1548.93	9.8	1521.10
08/24/19	623	165	1535.37	86	1539.65	129	1541.20	110	1536.94	70	1545.48	100	1546.77	50	1547.85	19	1548.92	9.7	1521.05
08/25/19	625	162	1535.36	84	1539.98	127	1541.20	107	1536.93	68	1545.47	97	1546.76	48	1547.84	18	1548.92	9.9	1521.15
08/26/19 ²	624	164	1535.33	85	1539.73	128	1541.19	109	1536.91	69	1545.47	99	1546.75	49	1547.83	19	1548.91	9.8	1521.18
08/27/19	627	167	1535.32	86	1539.75	130	1541.17	110	1536.90	70	1545.45	101	1546.75	50	1547.82	19	1548.90	9.7	1521.19
08/28/19	638	167	1535.29	86	1539.91	130	1541.14	110	1536.86	71	1545.43	101	1546.73	50	1547.81	19	1548.88	9.7	1521.13
08/29/19	628	166	1535.28	85	1539.55	130	1541.14	110	1536.85	70	1545.42	100	1546.72	50	1547.80	19	1548.87	9.7	1521.33
08/30/19	635	165	1535.27	85	1540.05	128	1541.13	109	1536.85	69	1545.40	99	1546.71	49	1547.79	19	1548.87	9.6	1521.26
08/31/19	627	167	1535.26	87	1539.93	131	1541.12	110	1536.84	71	1545.40	101	1546.71	50	1547.79	19	1548.86	9.8	1521.11
Monthly Average	634	165	1535.71	84	1540.21	129	1541.26	109	1536.94	70	1545.54	100	1546.84	50	1547.89	19	1548.96	10	1521.16
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		15	8/21/2019	13	8/21/2019	6.5	8/21/2019	8.9	8/21/2019	2.3	8/21/2019	0.25	8/21/2019	0.011	8/21/2019	6.4	8/21/2019	2.4	8/21/2019
Hexavalent Chromium		0.0027	8/21/2019	ND	8/21/2019	ND	8/21/2019	0.0039	8/21/2019	0.00050	8/21/2019	ND	8/21/2019	ND	8/21/2019	ND	8/21/2019	ND	8/21/2019
Total Chromium		ND	8/21/2019	ND	8/21/2019	ND	8/21/2019	0.0039	8/21/2019	ND	8/21/2019	ND	8/21/2019	ND	8/21/2019	ND	8/21/2019	ND	8/21/2019

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 08/05, 08/12, 08/19, and 08/26, 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 08/09, LS #1 offline from 1:38 pm to 5:30 pm due to power outage.
 4: Duplicates taken on 08/21 for well PC-118; 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 ² (gpm)	Water Elevation (ft amsl)
08/01/19	397	39	1582.77	151	1582.34	20	1580.78	2.8	1579.20	57	1580.16	19	1584.27	173	1582.55	1.5	1576.33
08/02/19	395	39	1582.78	151	1582.34	21	1580.78	2.8	1579.20	57	1580.17	19	1584.27	174	1582.55	1.5	1576.33
08/03/19	396	39	1582.80	151	1582.35	22	1580.78	2.8	1579.20	57	1580.20	17	1584.24	174	1582.55	1.5	1576.33
08/04/19	395	38	1582.80	151	1582.35	21	1580.78	2.8	1579.21	57	1580.25	19	1584.24	175	1582.55	1.5	1576.33
08/05/19 ²	396	39	1582.80	151	1582.35	21	1580.79	2.8	1579.20	57	1580.27	18	1584.27	175	1582.56	1.5	1576.33
08/06/19	396	40	1582.79	151	1582.35	19	1580.78	2.8	1579.20	57	1580.27	19	1584.30	173	1582.55	1.5	1576.33
08/07/19	397	39	1582.77	150	1582.34	18	1580.78	2.8	1579.20	57	1580.25	18	1584.27	173	1582.55	1.5	1576.32
08/08/19	396	39	1582.79	150	1582.35	19	1580.78	2.8	1579.20	57	1580.30	19	1584.30	173	1582.55	1.5	1576.32
08/09/19	395	38	1582.78	151	1582.34	18	1580.78	2.7	1579.20	57	1580.27	18	1584.27	174	1582.55	1.5	1576.32
08/10/19	396	39	1582.79	150	1582.34	19	1580.78	2.8	1579.20	57	1580.26	18	1584.27	174	1582.55	1.5	1576.32
08/11/19	395	39	1582.77	150	1582.34	19	1580.78	2.8	1579.20	57	1580.25	19	1584.27	174	1582.54	1.5	1576.32
08/12/19 ²	396	39	1582.79	150	1582.33	19	1580.78	2.8	1579.20	57	1580.27	18	1584.27	174	1582.54	1.5	1576.32
08/13/19	396	40	1582.77	151	1582.33	21	1580.78	2.8	1579.20	57	1580.27	19	1584.27	173	1582.54	1.5	1576.32
08/14/19	396	39	1582.77	150	1582.33	21	1580.77	2.8	1579.20	57	1580.33	18	1584.27	173	1582.54	1.5	1576.32
08/15/19	396	39	1582.78	151	1582.33	21	1580.77	2.8	1579.20	57	1580.33	18	1584.27	173	1582.54	1.5	1576.32
08/16/19	396	38	1582.77	150	1582.33	22	1580.77	2.8	1579.20	57	1580.36	18	1584.24	172	1582.54	1.5	1576.32
08/17/19	396	39	1582.76	149	1582.32	19	1580.77	2.8	1579.20	56	1580.32	18	1584.23	173	1582.54	1.5	1576.32
08/18/19	396	39	1582.76	150	1582.32	18	1580.77	2.8	1579.20	57	1580.32	18	1584.23	174	1582.54	1.5	1576.32
08/19/19 ²	396	39	1582.77	149	1582.33	19	1580.77	2.8	1579.20	57	1580.30	18	1584.30	173	1582.54	1.5	1576.32
08/20/19	395	39	1582.77	150	1582.32	20	1580.77	2.8	1579.20	57	1580.36	18	1584.27	172	1582.54	1.5	1576.32
08/21/19	396	40	1582.77	153	1582.32	21	1580.77	2.7	1579.20	58	1580.37	18	1584.30	175	1582.54	1.5	1576.32
08/22/19	395	38	1582.77	147	1582.32	18	1580.77	2.8	1579.21	55	1580.40	17	1584.30	169	1582.54	1.5	1576.33
08/23/19	395	39	1582.77	150	1582.32	19	1580.77	2.8	1579.20	57	1580.36	18	1584.27	173	1582.54	1.5	1576.32
08/24/19	395	39	1582.77	150	1582.33	20	1580.77	2.8	1579.20	57	1580.43	18	1584.30	173	1582.54	1.5	1576.32
08/25/19	395	40	1582.78	150	1582.34	20	1580.78	2.8	1579.20	56	1580.41	17	1584.30	172	1582.55	1.5	1576.32
08/26/19 ²	395	39	1582.79	150	1582.34	20	1580.78	2.8	1579.21	57	1580.41	17	1584.30	173	1582.55	1.5	1576.32
08/27/19	396	39	1582.80	150	1582.35	21	1580.79	2.8	1579.21	57	1580.41	18	1584.30	172	1582.56	1.5	1576.32
08/28/19	397	40	1582.80	150	1582.35	22	1580.79	2.8	1579.21	58	1580.40	18	1584.30	173	1582.56	1.5	1576.32
08/29/19	396	39	1582.80	150	1582.36	21	1580.79	2.8	1579.21	57	1580.43	18	1584.27	172	1582.57	1.5	1576.32
08/30/19	395	39	1582.82	150	1582.36	20	1580.80	2.7	1579.21	56	1580.43	19	1584.30	173	1582.57	1.5	1576.32
08/31/19	395	38	1582.82	149	1582.36	21	1580.80	2.8	1579.21	57	1580.47	17	1584.30	172	1582.57	1.5	1576.33
Monthly Average	396	39	1582.78	150	1582.34	20	1580.78	2.8	1579.20	57	1580.32	18	1584.28	173	1582.55	1.5	1576.32
Analytical ¹		Conc (mg/L)	Date	Conc ² (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
Perchlorate		28	8/20/2019	15	8/29/2019	220	8/20/2019	150	8/20/2019	190	8/20/2019	110	8/20/2019	90	8/20/2019	60	8/20/2019
Hexavalent Chromium		ND	8/20/2019	0.0066	8/20/2019	0.35	8/20/2019	0.16	8/20/2019	0.64	8/20/2019	0.55	8/20/2019	0.093	8/20/2019	0.046	8/20/2019
Total Chromium		ND	8/20/2019	0.0060	8/20/2019	0.34	8/20/2019	0.15	8/20/2019	0.61	8/20/2019	0.52	8/20/2019	0.095	8/20/2019	0.046	8/20/2019

Notes:
 Flow reported as gpm is a daily average calculated from the totalizer reading.
 ND = Not detected above laboratory method detection limit (ClO₄ = 0.5 ug/L; ClO₃ = 10 ug/L; NO₃-N = 0.055 mg/L, Cr(VI) = 0.25 ug/L).
 ^ = Instrument related QC is outside acceptance limits.
 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 08/05, 08/12, 08/19, and 08/26, 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 08/20 and 08/29 for well ART-2; average of both values is presented and used for calculations.
 4: The August 2019 perchlorate sample result for ART-9 was 1,200 mg/L, which is an order of magnitude higher than the historical concentration range for this well. An average of the July and September 2019 results was used for calculation purposes.
 5: Conducted periodic bucket tests to confirm flow rates for PC-150. Average flow of 1.5 gpm determined from flow tests is presented for 08/01-08/31 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 ⁴ (gpm)	Water Elevation ⁵ (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 ⁶ (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ⁶ (gpm)	Water Elevation (ft amsl)	Flow ⁶ (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)
08/01/19	0.02	1725.85	0.91	1714.21	0.00	1721.34	0.00	1724.63	0.00	1738.34	0.37	1718.16	3.7	1707.77	1.2	1721.59	1.1	1717.14	4.5	1719.95
08/02/19	0.03	1725.88	0.91	1714.27	0.00	1721.35	0.00	1724.63	0.00	1738.35	0.36	1718.76	3.6	1707.65	1.2	1721.71	1.1	1717.17	4.5	1719.99
08/03/19	0.02	1725.95	0.89	1714.48	0.00	1721.36	0.00	1724.63	0.00	1738.33	0.41	1718.79	3.6	1706.53	1.2	1721.48	1.1	1717.40	4.5	1720.02
08/04/19	0.02	1724.43	0.88	1714.88	0.00	1721.37	0.00	1724.61	0.00	1738.35	0.44	1718.95	3.6	1707.05	1.2	1721.08	1.0	1717.64	4.5	1720.05
08/05/19 ²	0.02	< 1714.00	0.89	1714.95	0.00	1721.38	0.00	1724.60	0.00	1738.44	0.42	1719.04	3.6	1707.00	1.2	1721.19	1.0	1717.73	4.5	1720.08
08/06/19	0.01	1714.09	0.86	1715.00	0.00	1721.39	0.00	1724.57	0.00	1738.24	0.43	1718.97	3.6	1707.02	1.2	1721.12	0.93	1718.38	4.5	1720.11
08/07/19	0.03	< 1714.00	0.86	1715.07	0.00	1721.39	0.00	1724.55	0.00	1738.38	0.46	1719.00	3.7	1706.93	1.2	1721.01	0.92	1718.39	4.5	1720.14
08/08/19	0.01	< 1714.00	0.85	1715.42	0.00	1721.41	0.00	1724.59	0.00	1738.38	0.44	1719.07	3.9	1706.84	1.2	1720.97	0.89	1718.54	4.5	1720.18
08/09/19	0.01	< 1714.00	0.83	1715.48	0.00	1721.42	0.00	1724.58	0.00	1738.39	0.45	1719.10	3.8	1707.76	1.2	1721.15	0.89	1718.55	4.5	1720.21
08/10/19	0.02	1718.64	0.84	1714.59	0.00	1721.43	0.00	1724.55	0.00	1738.40	0.40	1720.35	3.8	1707.42	1.2	1720.78	0.84	1719.98	4.4	1720.27
08/11/19	0.02	1727.58	0.86	1715.55	0.00	1721.50	0.00	1724.51	0.00	1738.43	0.31	1720.50	3.8	1707.14	1.1	1720.84	0.62	1720.00	4.5	1720.34
08/12/19 ²	0.02	1730.54	0.85	1715.73	0.00	1721.54	0.00	1724.49	0.00	1738.28	0.35	1720.66	3.8	1707.34	1.1	1720.84	0.73	1719.89	4.4	1720.41
08/13/19 ³	0.02	< 1714.00	0.82	1715.96	0.00	1721.56	0.00	1724.50	0.00	1738.34	0.32	1720.63	3.9	1707.22	1.0	1722.54	0.65	1719.95	4.5	1720.47
08/14/19	0.04	< 1714.00	0.82	1715.93	0.02	1721.60	0.00	1724.49	0.00	1738.34	0.27	1721.23	3.8	1707.84	1.0	1721.86	0.67	1719.89	4.5	1720.53
08/15/19	0.04	< 1714.00	0.84	1716.14	0.00	1721.64	0.00	1724.50	0.00	1738.41	0.23	1721.20	3.9	1707.34	1.0	1721.77	0.67	1719.95	4.5	1720.59
08/16/19	0.03	1717.30	0.83	1716.21	0.00	1721.65	0.00	1724.51	0.00	1738.49	0.28	1721.08	3.8	1707.52	1.0	1721.97	0.66	1720.02	4.5	1720.63
08/17/19	0.03	< 1714.00	0.82	1716.62	0.00	1721.61	0.00	1724.49	0.00	1738.40	0.32	1719.61	3.8	1707.60	1.1	1722.06	0.76	1717.80	4.5	1720.63
08/18/19	0.03	< 1714.00	0.79	1716.72	0.00	1721.53	0.00	1724.45	0.00	1738.36	0.39	1719.46	3.9	1707.42	1.4	1721.88	1.1	1717.83	4.5	1720.57
08/19/19 ²	0.03	1726.70	0.81	1716.70	0.00	1721.50	0.00	1724.46	0.00	1738.41	0.39	1719.39	3.8	1707.85	1.4	1721.97	1.1	1717.92	4.5	1720.55
08/20/19	0.03	1726.74	0.77	1716.75	0.00	1721.48	0.00	1724.46	0.00	1738.43	0.37	1719.58	3.9	1707.79	1.3	1721.84	1.0	1718.07	4.5	1720.55
08/21/19	0.04	1726.54	0.74	1716.88	0.00	1721.43	0.00	1724.48	0.00	1738.41	0.44	1714.22	3.8	1707.79	1.1	1721.84	0.73	1720.96	4.3	1720.67
08/22/19	0.02	1726.74	0.76	1716.71	0.00	1721.32	0.016	1726.94	0.032	1738.48	0.62	1711.06	3.9	1707.85	0.92	1721.92	0.43	1721.00	4.5	1720.71
08/23/19	0.03	1726.81	0.75	1716.59	0.00	1721.25	0.00	1726.51	0.00	1738.48	0.61	1710.57	3.8	1707.87	1.3	1722.78	0.44	1720.96	4.5	1720.67
08/24/19	0.03	1726.70	0.73	1716.76	0.00	1721.22	0.00	1726.24	0.00	1738.52	0.61	1709.88	3.8	1708.03	1.4	1722.18	0.78	1718.03	4.5	1720.67
08/25/19	0.03	1726.67	0.72	1716.72	0.00	1721.18	0.00	1726.10	0.00	1738.55	0.63	1709.82	3.8	1707.83	1.4	1722.13	1.0	1718.12	4.5	1720.68
08/26/19 ⁴	0.03	1726.59	0.73	1716.74	0.00	1721.16	0.00	1726.01	0.00	1738.55	0.62	1710.17	3.8	1707.87	1.4	1722.20	0.91	1718.16	4.5	1720.68
08/27/19	0.03	1726.56	0.70	1716.68	0.00	1721.13	0.00	1725.83	0.00	1738.56	0.57	1710.09	3.8	1707.82	1.3	1722.17	0.99	1718.36	4.5	1720.68
08/28/19	0.03	1726.56	0.78	1713.67	0.00	1721.08	0.00	1725.66	0.00	1738.49	0.57	1709.95	3.7	1707.82	1.3	1721.90	0.97	1718.36	4.5	1720.68
08/29/19	0.03	1726.55	0.94	1713.37	0.00	1721.03	0.00	1725.55	0.00	1738.46	0.57	1709.81	3.7	1707.84	1.3	1722.07	0.96	1718.46	4.5	1720.69
08/30/19	0.03	1726.53	0.95	1713.19	0.00	1721.00	0.00	1725.48	0.00	1738.45	0.56	1710.44	3.7	1706.93	1.3	1722.46	0.94	1718.58	4.5	1720.70
08/31/19	0.03	1726.54	0.95	1713.14	0.00	1720.98	0.00	1725.40	0.00	1738.46	0.55	1710.43	3.8	1707.78	1.2	1722.26	0.95	1718.62	4.5	1720.71
Monthly Average	0.03	1722.02	0.83	1715.52	0.00	1721.36	0.00	1725.00	0.00	1738.42	0.44	1716.45	3.8	1707.50	1.2	1721.73	0.86	1718.77	4.5	1720.45
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	470	8/22/2019	160	8/14/2019	160	8/14/2019	270	8/22/2019	160	8/22/2019	170	8/14/2019	550	8/14/2019	440	8/14/2019	590	8/14/2019	590	8/14/2019
Hexavalent Chromium	0.021	8/22/2019	0.050	8/14/2019	0.015	8/14/2019	2.3	8/22/2019	1.3	8/22/2019	0.039	8/14/2019	2.1	8/14/2019	4.0	8/14/2019	5.5	8/14/2019	11	8/14/2019
Total Chromium	2.2	8/22/2019	0.063	8/14/2019	0.020	8/14/2019	2.3	8/22/2019	1.3	8/22/2019	0.043	8/14/2019	2.3	8/14/2019	4.2	8/14/2019	5.6	8/14/2019	11	8/14/2019

Notes:
 Flow reported as gpm is a daily average calculated from the totalizer reading.
 1: Analytical results are reported from TestAmerica.
 2: On 08/05, 08/12, 08/19, and 08/26, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
 3: On 08/13, western IWF offline briefly for electric repairs.
 4: On 08/14, I-AR offline briefly for maintenance.
 5: 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.
 6: On 08/17, I-B, I-D, I-E, I-L, I-M, I-N, I-O, I-P, I-R, I-U, I-W, and I-Y, 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 ⁶ (gpm)	Water Elevation (ft amsl)	Flow ⁶ (gpm)	Water Elevation (ft amsl)	Flow ⁶ (gpm)	Water Elevation (ft amsl)	Flow ⁶ (gpm)	Water Elevation (ft amsl)	Flow ⁶ (gpm)	Water Elevation (ft amsl)
08/01/19	0.15	1711.25	1.3	1709.64	4.1	1721.62	6.3	1712.09	3.5	1709.18	1.0	1719.62	2.0	1721.13	2.8	1719.76	0.59	1720.98	2.5	1719.46
08/02/19	0.15	1711.26	1.3	1709.66	4.0	1721.61	6.3	1712.09	3.5	1709.14	0.99	1719.70	2.0	1721.18	2.8	1719.79	0.56	1720.98	2.4	1719.46
08/03/19	0.15	1711.24	1.2	1709.66	3.9	1721.16	6.3	1712.07	3.5	1709.36	1.0	1719.66	2.0	1721.19	2.8	1719.82	0.47	1720.97	2.3	1719.52
08/04/19	0.15	1711.26	1.1	1709.58	3.8	1721.60	6.3	1712.07	3.5	1709.61	0.99	1719.84	2.0	1721.22	2.8	1719.85	0.47	1720.97	2.2	1719.56
08/05/19 ²	0.15	1711.25	1.2	1709.66	3.9	1721.70	6.3	1712.07	3.5	1709.50	1.0	1720.24	2.0	1721.33	2.8	1719.88	0.47	1720.99	2.3	1719.65
08/06/19	0.15	1711.24	1.2	1709.64	3.9	1721.70	6.4	1712.08	3.5	1709.53	0.90	1720.47	2.0	1721.25	2.7	1719.91	0.52	1721.02	2.2	1719.75
08/07/19	0.16	1711.25	1.2	1709.63	4.4	1721.61	6.3	1712.08	3.5	1710.25	0.81	1720.74	2.0	1721.26	2.8	1719.94	0.59	1720.95	2.2	1719.72
08/08/19	0.16	1711.24	1.3	1709.58	4.8	1721.60	6.3	1712.09	3.5	1710.01	0.82	1720.58	2.0	1721.29	2.8	1720.00	0.60	1720.96	2.3	1719.74
08/09/19	0.16	1711.23	1.2	1709.63	4.5	1721.58	6.3	1712.09	3.5	1710.10	0.85	1720.62	2.0	1721.31	2.7	1720.04	0.59	1720.95	2.2	1719.74
08/10/19	0.16	1711.26	1.3	1709.75	4.6	1721.62	6.2	1712.06	3.5	1709.14	0.74	1721.63	2.0	1721.45	2.5	1720.41	0.58	1721.09	2.0	1720.45
08/11/19	0.16	1711.23	1.3	1709.64	4.6	1721.61	6.3	1712.06	3.5	1709.16	0.42	1721.65	1.9	1721.49	1.8	1720.50	0.51	1721.12	1.6	1720.51
08/12/19 ²	0.16	1711.23	1.3	1709.68	4.6	1721.62	6.3	1712.07	3.5	1709.97	0.58	1721.58	1.9	1721.54	2.2	1720.56	0.55	1721.13	1.8	1720.54
08/13/19 ³	0.16	1711.23	1.3	1709.41	5.1	1721.63	6.2	1712.06	3.5	1710.01	0.54	1721.58	1.8	1721.59	1.8	1720.62	0.45	1721.15	1.6	1720.57
08/14/19	0.16	1711.22	1.3	1709.68	5.0	1721.64	6.2	1712.06	3.5	1709.18	0.41	1721.86	1.8	1721.63	1.8	1720.68	0.46	1721.16	1.6	1720.59
08/15/19	0.17	1711.25	1.3	1709.70	4.7	1721.66	6.2	1712.07	3.5	1709.61	0.38	1721.84	1.8	1721.67	1.8	1720.73	0.40	1721.19	1.6	1720.63
08/16/19	0.17	1711.27	1.2	1709.71	4.2	1721.68	6.3	1712.08	3.5	1709.20	0.36	1721.91	1.8	1721.71	1.9	1720.74	0.42	1721.21	1.6	1720.66
08/17/19	0.17	1711.22	1.3	1709.72	4.2	1721.67	6.3	1712.06	3.5	1710.21	0.61	1719.05	2.0	1721.27	2.2	1720.15	0.50	1721.17	1.8	1719.89
08/18/19	0.17	1711.22	1.3	1709.72	4.8	1721.63	6.3	1712.05	3.5	1709.13	1.2	1719.28	2.4	1721.24	3.3	1720.07	0.55	1721.10	2.3	1719.90
08/19/19 ²	0.17	1711.24	1.3	1709.73	4.5	1721.61	6.3	1712.06	3.5	1710.06	1.2	1718.78	2.4	1721.25	3.3	1720.04	0.53	1721.10	2.3	1719.90
08/20/19	0.17	1711.26	1.3	1709.65	5.1	1721.61	6.2	1712.06	3.5	1709.14	1.2	1718.52	2.3	1721.25	3.3	1720.04	0.44	1721.10	2.3	1719.93
08/21/19	0.17	1711.41	1.3	1709.69	4.5	1721.72	6.0	1712.05	3.4	1709.13	0.96	1720.75	2.1	1721.49	2.7	1720.59	0.29	1721.31	1.8	1720.85
08/22/19	0.18	1711.26	1.4	1709.74	4.6	1721.91	6.4	1712.05	3.6	1709.15	0.75	1720.53	2.1	1721.53	2.2	1720.64	0.26	1721.40	1.4	1720.97
08/23/19	0.18	1711.26	1.4	1709.78	5.0	1721.82	6.4	1712.05	3.6	1709.15	0.78	1720.30	2.1	1721.51	2.9	1720.19	0.36	1721.27	2.0	1720.31
08/24/19	0.18	1711.26	1.4	1709.77	5.1	1721.77	6.3	1712.05	3.6	1709.74	1.0	1717.71	2.1	1721.49	3.2	1720.16	0.50	1721.17	2.2	1720.25
08/25/19	0.18	1711.27	1.3	1709.71	4.9	1721.76	6.3	1712.06	3.5	1709.13	1.2	1717.87	2.1	1721.49	3.2	1720.16	0.54	1721.17	2.1	1720.25
08/26/19 ⁴	0.18	1711.26	1.4	1710.05	5.0	1721.75	6.3	1712.06	3.6	1709.14	1.1	1717.82	2.1	1721.48	3.2	1720.17	0.52	1721.17	2.2	1720.24
08/27/19	0.18	1711.92	1.3	1710.37	4.8	1721.74	6.3	1712.06	3.5	1709.15	1.1	1717.98	2.1	1721.48	3.1	1720.19	0.42	1721.18	2.0	1720.26
08/28/19	0.18	1711.26	1.2	1709.73	4.8	1721.73	6.3	1712.07	3.5	1709.68	1.1	1717.15	2.1	1721.48	3.1	1720.20	0.52	1721.18	1.8	1720.28
08/29/19	0.18	1711.27	1.2	1709.74	4.8	1721.74	6.3	1712.07	3.5	1709.29	1.2	1717.62	2.1	1721.50	3.1	1720.22	0.49	1721.22	1.7	1720.32
08/30/19	0.18	1711.27	1.2	1709.70	4.8	1721.74	6.3	1712.07	3.5	1709.86	1.1	1718.09	2.1	1721.50	3.1	1720.23	0.37	1721.24	1.8	1720.37
08/31/19	0.18	1713.34	1.2	1709.68	4.9	1721.73	6.3	1712.07	3.5	1710.06	1.1	1718.10	2.0	1721.53	3.1	1720.25	0.33	1721.15	2.1	1719.77
Monthly Average	0.17	1711.34	1.3	1709.71	4.6	1721.66	6.3	1712.07	3.5	1709.52	0.88	1719.78	2.0	1721.41	2.7	1720.21	0.48	1721.12	2.0	1720.13
Analytical ¹	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	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date
Perchlorate	1,250	8/14/2019	930	8/14/2019	780	8/22/2019	320	8/22/2019	270	8/22/2019	310	8/14/2019	560	8/14/2019	450	8/14/2019	790	8/14/2019	880	8/14/2019
Hexavalent Chromium	17	8/14/2019	14	8/14/2019	8.3	8/22/2019	3.8	8/22/2019	2.3	8/22/2019	0.38	8/14/2019	4.8	8/14/2019	4.4	8/14/2019	14	8/14/2019	14	8/14/2019
Total Chromium	20	8/14/2019	14	8/14/2019	8.6	8/22/2019	3.7	8/22/2019	2.4	8/22/2019	0.40	8/14/2019	5.0	8/14/2019	4.6	8/14/2019	13	8/14/2019	13	8/14/2019

Notes:
 Flow reported as gpm is a daily average calculated from the totalizer reading.
 1: Analytical results are reported from TestAmerica.
 2: On 08/05, 08/12, 08/19, and 08/26, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
 3: On 08/13, western IWF offline briefly for electric repairs.
 6: On 08/17, I-B, I-D, I-E, I-L, I-M, I-N, I-O, I-P, I-R, I-U, I-W, and I-Y, adjusted to meet flow target as directed by the Trust.
 7: Duplicates taken on 08/14 for well I-G; average of both values is presented and used for calculations.

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 ⁶ (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation ⁶ (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ⁶ (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ^{6,9} (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ⁶ (gpm)	Water Elevation ¹⁰ (ft amsl)
08/01/19	0.55	1716.42	0.93	1717.44	4.1	1705.99	0.53	1707.86	0.50	1715.47	4.3	1719.29	0.69	1700.42	3.2	1717.03	1.2	1716.77
08/02/19	0.53	1716.58	0.90	1717.46	4.1	1705.99	0.54	1707.83	0.50	1715.21	4.3	1719.27	0.63	1700.47	3.3	1717.06	1.2	1716.26
08/03/19	0.51	1716.65	0.90	1717.47	4.2	1705.99	0.54	1707.83	0.51	1715.25	4.4	1719.26	0.60	1702.83	3.3	1717.08	1.2	1715.37
08/04/19	0.49	1716.70	0.94	1717.47	4.2	1705.99	0.54	1707.86	0.50	1715.28	4.5	1719.26	0.57	1703.17	3.3	1717.11	1.2	1715.45
08/05/19 ²	0.50	1716.61	0.92	1717.46	4.2	1706.00	0.54	1707.76	0.51	1715.21	4.4	1719.30	0.59	1702.92	3.3	1717.14	1.2	1715.40
08/06/19	0.48	1716.63	0.76	1717.52	4.2	1705.98	0.53	1709.13	0.51	1715.15	4.4	1719.38	0.57	1702.72	3.2	1717.17	1.2	1715.36
08/07/19	0.44	1717.30	0.73	1717.59	4.2	1705.98	0.53	1707.87	0.51	1715.16	4.3	1719.29	0.59	1702.79	3.2	1717.19	1.2	1715.43
08/08/19	0.41	1717.97	0.94	1717.40	4.3	1705.99	0.54	1707.88	0.51	1715.12	4.3	1719.26	0.63	1702.86	3.2	1717.24	1.2	1715.46
08/09/19	0.37	1718.31	0.99	1717.33	4.3	1705.98	0.54	1707.87	0.51	1715.21	4.3	1719.24	0.52	1700.88	3.3	1717.26	1.2	1715.84
08/10/19	0.34	1718.98	0.96	1719.12	4.3	1706.00	0.51	1713.69	0.50	1715.59	4.4	1719.36	0.44	1718.63	3.2	1717.45	1.2	1715.40
08/11/19	0.26	1718.77	0.61	1719.30	4.5	1706.01	0.43	1707.84	0.50	1715.50	4.5	1719.37	0.64	1699.42	3.2	1717.52	1.1	1717.94
08/12/19 ²	0.30	1718.96	0.78	1719.62	4.4	1706.01	0.47	1707.86	0.50	1715.79	4.4	1719.39	0.54	1702.23	3.2	1717.57	1.1	1717.58
08/13/19 ³	0.23	1719.05	0.54	1719.48	4.6	1706.01	0.54	1707.85	0.45	1716.37	4.4	1719.40	0.62	1700.34	3.2	1717.63	1.1	1717.82
08/14/19	0.29	1719.02	0.40	1720.45	4.6	1706.04	0.55	1707.86	0.42	1716.81	4.4	1719.42	0.64	1700.47	3.2	1717.67	1.1	1717.17
08/15/19	0.26	1718.91	0.38	1720.32	4.8	1706.03	0.55	1707.87	0.41	1716.95	4.3	1719.45	0.63	1700.54	3.2	1717.72	1.1	1717.17
08/16/19	0.30	1718.87	0.44	1720.39	4.8	1706.03	0.55	1707.87	0.41	1716.86	4.3	1719.48	0.61	1708.57	3.2	1717.76	1.1	1717.70
08/17/19	0.29	1718.72	0.57	1717.75	4.8	1706.03	0.55	1707.87	0.47	1713.26	4.4	1719.46	0.59	1712.73	3.2	1717.72	1.2	1717.32
08/18/19	0.29	1718.99	0.86	1718.18	4.5	1706.03	0.56	1707.86	0.62	1713.74	4.5	1719.38	0.63	1707.33	3.2	1717.64	1.5	1714.73
08/19/19 ²	0.29	1719.12	0.86	1718.20	4.6	1706.03	0.56	1707.86	0.62	1713.88	4.4	1719.35	0.63	1707.37	3.2	1717.62	1.5	1714.79
08/20/19	0.23	1719.33	0.77	1718.41	4.3	1706.04	0.55	1707.86	0.59	1714.09	4.4	1719.34	0.67	1707.34	3.2	1717.62	1.4	1714.69
08/21/19	0.19	1719.47	1.1	1713.00	4.2	1706.02	0.54	1707.84	0.53	1715.11	4.2	1719.56	0.54	1707.34	3.0	1717.88	1.3	1714.69
08/22/19	0.20	1719.60	1.6	1713.04	4.3	1706.03	0.55	1707.87	0.53	1715.14	4.3	1719.75	0.48	1707.44	3.2	1717.93	1.3	1714.76
08/23/19	0.18	1719.65	1.5	1712.95	4.2	1706.03	0.55	1707.87	0.62	1713.07	4.3	1719.64	0.57	1708.38	3.2	1717.84	1.3	1715.47
08/24/19	0.18	1719.65	1.5	1713.29	4.1	1706.03	0.56	1707.87	0.69	1712.49	4.4	1719.56	0.58	1708.16	3.2	1717.85	1.3	1715.06
08/25/19	0.18	1719.68	1.4	1713.20	4.0	1706.03	0.56	1707.88	0.66	1713.46	4.5	1719.54	0.56	1707.88	3.2	1717.85	1.3	1715.35
08/26/19 ²	0.18	1719.64	1.5	1713.14	4.1	1706.33	0.56	1707.88	0.68	1713.74	4.4	1719.53	0.57	1708.14	3.2	1717.85	1.3	1715.23
08/27/19	0.20	1719.60	1.4	1713.05	3.9	1706.29	0.55	1707.86	0.64	1713.12	4.4	1719.52	0.51	1708.12	3.1	1717.84	1.3	1715.28
08/28/19	0.20	1719.54	1.3	1712.71	3.9	1706.29	0.55	1707.87	0.70	1709.95	4.4	1719.51	0.48	1711.51	3.1	1717.84	1.4	1714.98
08/29/19	0.23	1719.42	1.3	1712.67	3.8	1706.32	0.55	1707.89	0.77	1711.22	4.3	1719.51	0.43	1711.42	3.1	1717.85	1.5	1714.96
08/30/19	0.24	1719.36	1.3	1712.84	3.8	1705.99	0.55	1707.83	0.73	1711.85	4.3	1719.53	0.41	1717.10	3.2	1717.85	1.5	1708.27
08/31/19	0.25	1719.40	1.4	1712.87	3.8	1705.90	0.55	1707.84	0.70	1712.19	4.4	1719.49	0.48	1716.43	3.2	1717.86	1.5	1710.35
Monthly Average	0.31	1718.61	0.98	1716.49	4.2	1706.05	0.54	1708.09	0.56	1714.43	4.4	1719.42	0.57	1706.32	3.2	1717.57	1.3	1715.42
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	790	8/14/2019	770	8/14/2019	380	8/14/2019	1,300	8/14/2019	1,300	8/14/2019	870	8/22/2019	780	8/14/2019	690	8/14/2019	870	8/14/2019
Hexavalent Chromium	13	8/14/2019	0.26	8/14/2019	0.60	8/14/2019	16	8/14/2019	17	8/14/2019	11	8/22/2019	13	8/14/2019	6.6	8/14/2019	0.43	8/14/2019
Total Chromium	16	8/14/2019	0.24	8/14/2019	0.60	8/14/2019	16	8/14/2019	16	8/14/2019	12	8/22/2019	14	8/14/2019	6.9	8/14/2019	0.44	8/14/2019

Notes:
 Flow reported as gpm is a daily average calculated from the totalizer reading.
 1: Analytical results are reported from TestAmerica.
 2: On 08/05, 08/12, 08/19, and 08/26, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
 3: On 08/13, western IWF offline briefly for electric repairs.
 5: 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.
 6: On 08/17, I-B, I-D, I-E, I-L, I-M, I-N, I-O, I-P, I-R, I-U, I-W, and I-Y, adjusted to meet flow target as directed by the Trust.
 8: On 08/28, I-S transducer replaced.
 9: On 08/10, I-W offline briefly due to instrument error.
 10: From 08/05-08/06, I-Z offline due to motor replacement.

Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics																
Date	LS #2	GWTP Effluent ¹				GW-11 Influent ¹				FBR Plant Influent ¹						
	Flow (gpm)	Flow (gpm)	TA - Cr (TR) (mg/L)	TA - Cr (VI) (mg/L)	TA - ClO ₄ (mg/L)	Flow ⁴ (gpm)	TA - Cr (TR) (mg/L)	TA - Cr (VI) (mg/L)	TA - ClO ₄ (mg/L)	Flow ^{4,5} (gpm)	TA - ClO ₄ (mg/L)	ETI - ClO ₄ (mg/L)	TA - ClO ₃ (mg/L)	TA - NO ₃ - N (mg/L)	TA - Cr (TR) (mg/L)	TA - Cr (VI) (mg/L)
08/01/19	947	62				0.00				1,009		98	140			
08/02/19	938	62				0.00				1,001		98				
08/03/19	938	62				0.00				1,005	110	152				
08/04/19	938	62				0.00				1,003		100				
08/05/19 ³	938	62				0.00				1,002		99		8.6	0.013	0.011
08/06/19	940	61				0.00				1,000		80				
08/07/19	940	62	0.31	ND	530	0.00				1,002		90				
08/08/19	948	62				0.00				1,010		62				
08/09/19	852	62				0.00				1,069		111				
08/10/19	940	60				0.00				1,000	120	81				
08/11/19	939	58				0.00				996		103				
08/12/19 ³	940	60				0.00				1,000		109		9.8	0.0099	0.0067
08/13/19	939	61				0.00				1,000		111				
08/14/19	939	61	0.12	ND F1	500	0.00				1,000		116				
08/15/19	939	61				0.00				1,000		111				
08/16/19	939	61				0.00				1,000		113				
08/17/19	939	61				0.00				1,000	120	107				
08/18/19	939	62				19				1,001		105				
08/19/19 ³	939	62				15	0.074	0.020	52	1,001		105		11	0.012	0.011
08/20/19	941	62				2.6				1,003		112				
08/21/19	940	60	0.21	ND	550	0.00				1,000		109				
08/22/19	948	60				0.00				1,008		102				
08/23/19	939	62				0.00				1,001		114				
08/24/19	939	62				0.04				1,001	120	107				
08/25/19	941	62				0.00				1,003		105				
08/26/19 ³	940	62				0.00				1,002		117		11	0.0089	0.0082
08/27/19	938	62				0.00				1,001		103				
08/28/19	949	63	1.6	ND	570	0.00				1,012		119				
08/29/19	939	63				0.00				1,002		112				
08/30/19	944	63				0.00				1,006		108				
08/31/19	940	63				0.00				1,003	160	101				
Monthly Average ²	938	62	0.54	ND	537	1.2	0.074	0.020	52	1,005	123	105	140	10	0.011	0.009

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 (ClO₄ = 0.5 ug/L; ClO₃ = 10 ug/L; NO₃-N = 0.055 mg/L, Cr(VI) = 0.25 ug/L).
 F1 = MS and/or MSD Recovery is outside acceptance limits.
 1: ETI = Envirogen internal process control data, TA = TestAmerica data.
 2: All average concentrations reported are monthly flow weighted averages.
 3: On 08/05, 08/12, 08/19, and 08/26, the LS #2 totalizer was reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
 4: Flows bypassed GW-11 Influent and FBR Plant Influent totalizers from 08/01 to 08/31 due to FBR plant influent strainers clogging, except for monthly sampling and maintenance.
 5: From 08/01 to 08/31, 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 ⁶			2nd Stage FBR ⁶			FBR Plant Effluent ⁷							
	Flow (gpm)	pH (s.u.)	ORP (mV)	Flow (gpm)	pH (s.u.)	ORP (mV)	Flow ⁷ (gpm)	TA - ClO ₄ (mg/L)	ETI - ClO ₄ (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)
08/01/19	1,093	6.4	-400	1,145	6.3	-372	1,057		ND	ND				27
08/02/19	1,071	6.4	-403	862	6.3	-394	1,063		ND					27
08/03/19	1,047	6.4	-402	927	6.3	-391	1,061	0.0091	ND					24
08/04/19	1,074	6.4	-397	829	6.3	-399	1,055		ND					18
08/05/19	1,023	6.5	-414	763	6.4	-405	1,064		ND		0.0032	ND	ND	22
08/06/19	1,038	6.5	-426	832	6.3	-408	1,009		ND					38
08/07/19	1,043	6.5	-392	1,010	6.3	-410	1,028		ND					46
08/08/19	1,087	6.4	-379	983	6.3	-396	1,033		ND					27
08/09/19	1,065	6.5	-409	852	8.6	-405	1,068		ND					35
08/10/19	1,069	6.5	-422	936	8.7	-410	1,031	0.0081	ND					52
08/11/19	1,005	6.4	-428	934	8.7	-408	941		ND					36
08/12/19	1,005	6.4	-412	831	8.7	-410	999		ND		0.0045	ND	ND	38
08/13/19	992	6.5	-407	924	6.4	-414	991		ND					35
08/14/19	1,008	6.4	-408	1,060	6.4	-411	990		ND					41
08/15/19	988	6.5	-436	808	6.5	-415	987		ND					50
08/16/19	1,007	6.4	-297	878	6.4	-363	981		ND					38
08/17/19	997	6.4	-257	984	6.4	-369	976	ND	ND					29
08/18/19	991	6.5	-391	965	6.4	-384	982		ND					20
08/19/19	1,040	6.6	-416	939	6.5	-393	1,009		ND		0.0031	ND	ND	25
08/20/19	1,027	6.4	-385	810	6.4	-396	1,024		ND					41
08/21/19	1,171	6.5	-410	892	6.4	-392	963		ND					39
08/22/19	1,017	6.4	-388	952	6.4	-403	938		ND					53
08/23/19	1,010	6.5	-346	918	6.4	-404	1,005		ND					25
08/24/19	996	6.4	-297	1,010	6.4	-408	985	ND	ND					23
08/25/19	1,058	6.4	-312	843	6.5	-411	1,042		ND					25
08/26/19	1,028	6.4	-341	1,003	6.5	-415	1,048		ND		0.0034	ND	ND	33
08/27/19	1,019	6.4	-350	1,033	6.5	-417	1,024		ND					32
08/28/19	1,030	6.4	-387	653	6.6	-424	1,020		ND					32
08/29/19	1,064	6.4	-280	826	6.4	-391	1,050		ND					34
08/30/19	1,038	6.4	-389	881	6.4	-406	1,035		ND					30
08/31/19	1,038	6.4	-412	1,023	6.4	-410	1,030	ND	ND					54
Monthly Average ²	1,037	6.5	-381	913	6.7	-401	1,016	0.0036	ND	ND	0.0035	ND	ND	34

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 (ClO₄ = 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.

6: 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.

7: 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 ¹				
Date	Field Measurement (ft)	Volume (MG)		
08/15/19	30.2	36.4		
08/31/19	30.5	36.0		

GW-11 Leak Detection Monitoring				
Date	Amount Pumped ² (gallons)			
	NW Corner	NE Corner	SW Corner	SE Corner
08/14/19	0	2,234	407	18
08/28/19	0	1,719	217	16

GW-11 Composite Sample ³		
Analytes	Concentration	Units
Perchlorate	2.8	mg/L
Chlorate	1.9	mg/L
Ammonia as N	0.35	mg/L
Total Phosphorus	0.56	mg/L
Total Dissolved Solids (TDS)	11,000	mg/L
Total Suspended Solids (TSS)	72	mg/L
pH	8.1 HF	s.u.
Calcium	480	mg/L
Iron	0.67	mg/L
Chromium (total)	0.056	mg/L
Chromium VI	ND H H3	mg/L
Chloride	3,500	mg/L
Nitrate as N	ND H	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.

H = Sample was prepped or analyzed beyond the specified holding time

H3 = Sample was received and analyzed past holding time.

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: A transducer installed along the eastern berm provides water pressure measurements that are correlated to elevations for calculation of water depths. Results from a December 2018 bathymetric survey of the pond will be used to identify adjustment to the procedure, if necessary.
- 2: Pumping occurs over three consecutive days. The total amount pumped over the three day period is listed with the last day pumping occurred.
- 3: GW-11 Corner Composite Sample is collected quarterly, most recent sampling results are presented. Sampled on: August 2, 2019.

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)		
Sep 2018	1,030	117	10	150	691	687
Oct 2018	1,028	208	10.0	140	867	728
Nov 2018	1,042	262	10	130	979	771
Dec 2018	1,046	262	10	140	1,009	811
Jan 2019	1,067	247	10.0	140	991	861
Feb 2019	1,070	264	9	130	997	922
Mar 2019	1,035	233	10.3	140	932	962
Apr 2019	1,038	102	10	89	529	906
May 2019	1,027	118	11	140	677	856
June 2019	1,009	138	6	120	620	791
July 2019	1,007	102	10.2	140	621	729
Aug 2019	1,005	123	10.1	140	664	674

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 in March 2019 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.

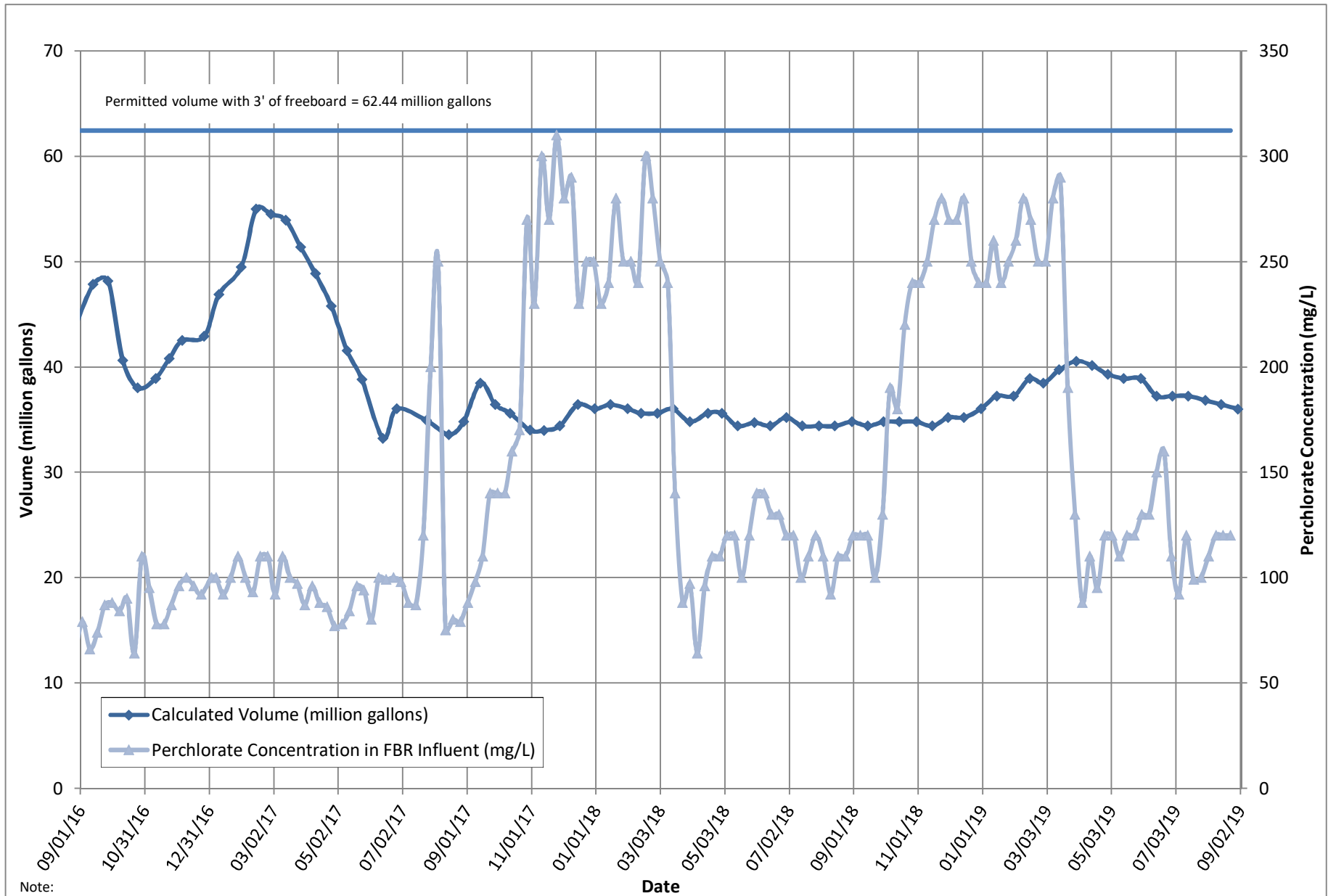
3: FBR loading calculated as $[(0.9 \times \text{NO}_3 \text{ as N} + 0.17 \times \text{ClO}_3 + 0.18 \times \text{ClO}_4) \times \text{Flow} \times 1440 / 1000000 \times 8.34]$.

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)
08/01/19	2.8	1712.27	1.2	1713.82	0.95	1712.51	1.6	1715.64	2.1	1714.94	2.0	1717.95	1.5	1715.51	0.65	1715.16
08/02/19	2.7	1712.25	1.2	1713.50	0.94	1712.53	1.5	1715.81	2.1	1715.68	2.0	1716.86	1.7	1715.89	0.65	1715.12
08/03/19	2.7	1715.13	1.2	1710.26	0.91	1710.02	1.5	1714.22	2.1	1714.52	2.0	1715.75	1.8	1715.41	0.66	1714.62
08/04/19	2.8	1715.04	1.2	1709.90	0.94	1709.96	1.5	1714.43	2.0	1714.72	2.1	1715.50	1.8	1715.03	0.65	1714.98
08/05/19	2.8	1714.74	1.2	1709.85	0.93	1709.94	1.5	1714.68	2.1	1715.00	2.1	1715.47	1.8	1714.49	0.65	1715.18
08/06/19	2.7	1714.37	1.2	1709.95	0.91	1710.01	1.5	1715.33	2.0	1715.61	2.1	1715.54	1.9	1713.81	0.62	1715.50
08/07/19	2.8	1714.39	1.3	1710.10	1.0	1710.06	1.6	1715.87	2.2	1716.10	2.2	1715.57	2.1	1713.71	0.67	1715.77
08/08/19	2.5	1714.33	1.1	1712.27	0.88	1709.77	1.4	1714.68	1.9	1715.64	1.9	1715.37	1.7	1713.58	0.59	1715.14
08/09/19	2.7	1714.37	1.2	1713.18	0.93	1708.25	1.5	1714.14	2.0	1713.70	2.1	1714.66	1.9	1713.43	0.64	1713.77
08/10/19 ²	0.72	1713.77	0.33	1710.62	0.27	1709.81	0.40	1714.77	0.54	1714.24	0.57	1713.13	0.51	1712.53	0.18	1712.22
08/11/19	2.7	1719.38	1.3	1721.67	0.99	1718.00	1.3	1721.64	1.7	1725.12	1.7	1727.83	1.8	1726.57	0.52	1729.76
08/12/19	2.8	1717.53	1.3	1717.30	1.0	1716.14	1.3	1721.94	1.7	1721.70	1.7	1722.94	1.9	1718.93	0.53	1723.32
08/13/19	2.9	1716.52	1.3	1716.00	0.95	1714.55	1.6	1721.87	1.9	1720.97	2.0	1720.60	1.9	1715.73	0.65	1721.51
08/14/19	3.3	1710.13	1.5	1710.55	1.1	1714.61	1.7	1717.38	2.4	1718.11	2.5	1717.75	2.1	1715.10	0.74	1717.16
08/15/19	2.6	1711.79	1.2	1710.30	0.87	1711.63	1.4	1713.77	1.9	1715.44	2.0	1714.82	1.6	1714.74	0.58	1716.48
08/16/19	3.0	1714.18	1.2	1708.95	0.97	1710.50	1.5	1712.77	2.0	1712.12	2.2	1713.97	2.1	1714.54	0.68	1715.14
08/17/19	3.0	1714.19	1.2	1711.85	0.95	1709.80	1.5	1717.21	2.0	1714.92	2.2	1714.77	1.6	1714.89	0.68	1715.39
08/18/19	3.2	1714.32	1.3	1712.10	1.0	1710.57	1.5	1717.34	2.1	1712.82	2.2	1713.39	1.9	1714.99	0.70	1715.09
08/19/19	2.9	1713.45	1.1	1712.33	0.91	1710.61	1.4	1716.21	1.9	1714.94	2.0	1714.43	1.8	1714.75	0.63	1715.17
08/20/19	2.9	1713.30	1.2	1712.42	0.97	1710.65	1.5	1715.72	2.0	1715.73	2.1	1715.06	1.8	1714.19	0.66	1715.32
08/21/19	2.7	1713.34	1.3	1712.36	0.83	1710.78	1.3	1715.76	1.8	1715.72	1.5	1715.04	1.6	1714.22	0.47	1715.31
08/22/19	2.8	1713.33	1.3	1711.43	0.85	1710.82	1.3	1715.82	1.8	1715.73	1.5	1715.10	1.6	1714.08	0.46	1714.51
08/23/19	2.9	1715.51	1.3	1711.36	0.82	1706.82	1.3	1711.20	1.8	1708.02	1.6	1717.90	1.6	1711.71	0.48	1711.32
08/24/19	2.9	1710.15	1.3	1711.56	0.80	1715.92	1.5	1720.77	2.2	1719.04	2.1	1721.00	1.6	1717.77	0.73	1721.57
08/25/19	3.1	1715.18	1.4	1711.71	0.87	1710.62	1.6	1718.90	2.4	1717.51	2.2	1718.49	1.8	1717.90	0.79	1719.27
08/26/19	2.7	1714.45	1.2	1711.75	0.76	1710.64	1.4	1718.22	2.0	1716.95	1.9	1718.03	1.5	1717.80	0.66	1715.30
08/27/19	2.9	1714.40	1.2	1711.78	0.82	1710.94	1.4	1717.38	2.2	1716.24	2.0	1717.95	1.7	1717.73	0.70	1711.60
08/28/19	2.7	1706.24	1.2	1709.36	0.80	1711.43	1.4	1708.82	2.1	1710.12	2.0	1713.55	1.7	1715.01	0.70	1707.64
08/29/19	2.7	1709.25	1.2	1710.36	0.80	1711.52	1.4	1708.42	2.0	1711.62	2.0	1713.35	1.7	1715.61	0.70	1707.62
08/30/19	2.6	1716.33	1.2	1712.31	0.81	1710.01	1.3	1709.02	2.0	1714.87	2.0	1713.24	1.6	1715.68	0.55	1715.61
08/31/19	2.6	1716.82	1.2	1713.66	0.80	1713.47	1.3	1714.37	2.0	1713.82	2.0	1712.82	1.6	1716.79	0.54	1718.60
Monthly Average	2.8	1713.89	1.2	1712.08	0.88	1711.39	1.4	1715.61	2.0	1715.54	2.0	1716.38	1.7	1715.56	0.62	1715.81
Analytical	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc ³ (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date
Perchlorate	520	8/21/2019	1,600	8/21/2019	850	8/21/2019	115	8/21/2019	320	8/21/2019	750	8/21/2019	1,100	8/21/2019	1,300	8/21/2019
Hexavalent Chromium	0.038	8/21/2019	0.21	8/21/2019	0.41	8/21/2019	0.031	8/21/2019	0.027	8/21/2019	0.026	8/21/2019	0.040	8/21/2019	0.094	8/21/2019
Total Chromium	0.038	8/21/2019	0.20	8/21/2019	0.38	8/21/2019	0.031	8/21/2019	0.026	8/21/2019	0.023	8/21/2019	0.039	8/21/2019	0.096	8/21/2019

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: On 08/10, AP Area wells offline briefly due to instrument error.
 3: Duplicates taken on 08/21 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 increased on October 1, 2018 in accordance with the higher seasonal ammonia permit limits beginning October 1. The AP-5 wash water feed rate was decreased in March 2019 to prepare for the lower seasonal ammonia permit limits beginning April 1.

Figure 2 - FBR Equivalent Loading Calculation

