

Table 1 - Seep Well Field (SWF) Operational Metrics

Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics																			
Date	LS #1 Flow (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 ³ (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ^{4,5} (gpm)	Water Elevation (ft amsl)	Flow ² (gpm)	Water Elevation (ft amsl)	Flow ⁵ (gpm)	Water Elevation (ft amsl)	Flow ⁵ (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)
09/01/19	625	169	1535.27	87	1539.83	132	1541.14	112	1536.85	72	1545.42	101	1546.73	50	1547.80	19	1548.88	11	1521.03
09/02/19	636	161	1535.31	82	1540.30	125	1541.18	105	1536.87	68	1545.47	97	1546.78	48	1547.86	18	1548.94	9.1	1521.04
09/03/19 ²	631	165	1535.38	85	1539.88	128	1541.25	109	1536.93	70	1545.53	99	1546.86	49	1547.94	19	1548.86	9.8	1521.09
09/04/19	624	166	1535.45	86	1540.46	129	1541.33	110	1536.98	70	1545.60	100	1546.95	50	1548.03	19	1549.11	9.7	1521.14
09/05/19	648	165	1535.53	86	1540.41	129	1541.41	109	1537.04	70	1545.69	100	1547.04	50	1548.13	19	1549.21	9.7	1521.70
09/06/19	640	167	1535.73	86	1539.63	129	1541.55	111	1537.24	70	1545.77	100	1547.16	50	1548.24	19	1549.32	9.7	1521.14
09/07/19	623	167	1535.80	88	1540.48	131	1541.64	110	1537.30	71	1545.89	101	1547.26	50	1548.35	19	1549.42	9.7	1521.24
09/08/19	621	167	1535.88	87	1540.16	130	1541.71	111	1537.35	71	1545.96	101	1547.36	50	1548.45	19	1549.52	9.7	1521.26
09/09/19 ²	622	167	1535.96	87	1540.60	130	1541.80	110	1537.42	71	1546.05	101	1547.46	50	1548.54	19	1549.62	9.7	1521.39
09/10/19	627	167	1536.02	87	1540.09	130	1541.85	110	1537.46	70	1546.12	100	1547.52	50	1548.61	19	1549.69	9.7	1521.35
09/11/19	627	188	1536.08	89	1540.44	131	1541.91	110	1537.51	71	1546.16	101	1547.58	50	1548.68	19	1549.76	9.8	1521.31
09/12/19	666	146	1536.09	87	1540.30	129	1541.74	110	1537.50	95	1544.53	101	1547.35	50	1548.54	19	1549.69	10	1521.25
09/13/19	650	167	1536.20	88	1540.69	130	1541.96	110	1537.60	93	1546.15	104	1547.60	58	1548.70	21	1549.78	9.7	1521.22
09/14/19	623	167	1536.26	88	1540.37	131	1542.01	110	1537.64	72	1546.20	102	1547.66	51	1548.76	20	1549.84	9.7	1521.29
09/15/19	623	167	1536.28	88	1540.71	131	1542.04	110	1537.66	72	1546.25	103	1547.70	50	1548.79	19	1549.88	9.7	1521.33
09/16/19 ²	623	167	1536.32	88	1540.54	131	1542.07	110	1537.68	72	1546.26	103	1547.73	50	1548.82	20	1549.90	9.7	1521.34
09/17/19	626	165	1536.54	88	1540.50	131	1542.08	110	1537.69	72	1546.27	102	1547.74	50	1548.84	20	1549.93	9.7	1521.47
09/18/19	626	167	1536.55	88	1540.92	130	1542.10	110	1537.77	71	1546.29	103	1547.77	51	1548.86	19	1549.95	9.7	1521.88
09/19/19	642	167	1536.55	88	1540.62	131	1542.14	111	1537.74	72	1546.29	103	1547.77	50	1548.87	20	1549.95	9.7	1521.46
09/20/19	633	167	1536.55	88	1540.85	130	1542.12	110	1537.75	72	1546.28	102	1547.78	51	1548.87	19	1549.96	10	1521.62
09/21/19	638	167	1536.56	88	1540.54	131	1542.13	110	1537.75	72	1546.29	103	1547.79	50	1548.88	20	1549.97	9.7	1521.46
09/22/19	638	167	1536.57	87	1540.59	130	1542.14	110	1537.74	71	1546.29	102	1547.80	51	1548.89	19	1549.98	9.7	1521.46
09/23/19 ²	638	167	1536.56	88	1540.80	131	1542.13	110	1537.74	72	1546.30	103	1547.79	50	1548.89	20	1549.97	9.7	1521.50
09/24/19	634	165	1536.58	87	1540.44	129	1542.13	110	1537.74	71	1546.31	101	1547.80	50	1548.89	20	1549.98	10	1521.51
09/25/19	633	168	1536.55	89	1540.52	132	1542.11	111	1537.72	72	1546.27	104	1547.79	51	1548.89	20	1549.97	9.8	1521.46
09/26/19	652	165	1536.64	88	1540.86	129	1542.11	110	1537.91	71	1546.31	101	1547.80	50	1548.90	19	1549.98	9.7	1522.01
09/27/19	635	166	1536.60	88	1541.07	129	1542.16	110	1537.87	71	1546.29	102	1547.80	50	1548.90	20	1549.97	9.7	1521.98
09/28/19	640	166	1536.58	89	1540.61	130	1542.15	110	1537.85	71	1546.30	103	1547.78	51	1548.88	19	1549.96	10	1521.94
09/29/19	639	169	1536.56	89	1540.73	132	1542.13	112	1537.83	73	1546.26	104	1547.77	51	1548.86	20	1549.94	9.9	1521.92
09/30/19 ²	640	168	1536.55	89	1541.29	131	1542.10	111	1537.81	72	1546.25	103	1547.76	51	1548.86	20	1549.94	10	1521.86
Monthly Average	634	166	1536.18	87	1540.51	130	1541.88	110	1537.53	73	1546.04	102	1547.52	50	1548.62	19	1549.70	10	1521.46
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 ⁶ (mg/L)	Date	Conc (mg/L)	Date	Conc (mg/L)	Date
Perchlorate		17	9/17/2019	16	9/17/2019	8.2	9/17/2019	11	9/17/2019	2.5	9/17/2019	0.38	9/17/2019	0.44	9/17/2019	0.01	9/17/2019	2.6	9/17/2019
Hexavalent Chromium		0.0030	9/17/2019	ND	9/17/2019	ND	9/17/2019	0.0042	9/17/2019	ND	9/17/2019	ND	9/17/2019	ND	9/17/2019	ND	9/17/2019	ND	9/17/2019
Total Chromium		0.0035	9/17/2019	ND	9/17/2019	ND	9/17/2019	0.0036	9/17/2019	ND	9/17/2019	ND	9/17/2019	ND	9/17/2019	ND	9/17/2019	ND	9/17/2019

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 09/03, 09/09, 09/16, 09/23 and 09/30, 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 09/17, PC-116 offline briefly due to maintenance.
 4: On 09/12, PC-118 was adjusted to meet flow target as directed by the Trust.
 5: On 09/13, PC-118, PC-119, PC-120, and PC-121 adjusted to meet flow target as directed by the Trust.
 6: Duplicates taken on 09/17/19 for well PC-120; average of both values is presented and used for calculations. The reported perchlorate value is higher than recent historical range due to the duplicate result being an order of magnitude higher than recent results and the parent sample result. The duplicate sample result was confirmed by laboratory.

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 ⁴ (gpm)	Water Elevation (ft amsl)	Flow ^{5 6} (gpm)	Water Elevation (ft amsl)
09/01/19	396	39	1582.82	149	1582.37	22	1580.81	2.8	1579.21	57	1580.46	18	1584.30	173	1582.58	1.5	1576.32
09/02/19	396	39	1582.83	149	1582.38	18	1580.81	2.8	1579.21	57	1580.51	18	1584.32	172	1582.57	1.5	1576.31
09/03/19 ²	396	39	1582.83	149	1582.38	20	1580.81	2.8	1579.21	57	1580.54	18	1584.32	173	1582.54	1.5	1576.32
09/04/19	389	39	1582.85	150	1582.39	20	1580.81	2.8	1579.21	57	1580.57	18	1584.30	173	1582.59	1.5	1576.32
09/05/19	406	39	1582.86	150	1582.41	19	1580.83	2.8	1579.20	57	1580.64	19	1584.31	174	1582.60	1.5	1576.33
09/06/19	400	39	1582.89	150	1582.43	20	1580.85	2.8	1579.21	57	1580.75	18	1584.35	173	1582.63	1.5	1576.31
09/07/19	396	39	1582.92	149	1582.46	20	1580.87	2.8	1579.21	57	1580.80	19	1584.35	175	1582.65	1.5	1576.34
09/08/19	398	39	1582.95	149	1582.49	18	1580.89	2.8	1579.20	56	1580.93	17	1584.37	175	1582.68	1.5	1576.32
09/09/19 ²	397	39	1582.99	149	1582.52	19	1580.91	2.8	1579.20	57	1581.09	18	1584.40	175	1582.71	1.5	1576.33
09/10/19	400	40	1583.01	150	1582.55	19	1580.93	3.5	1579.20	58	1581.20	19	1584.42	174	1582.74	1.5	1604.60
09/11/19	400	39	1583.04	150	1582.58	18	1580.95	2.8	1579.20	57	1581.31	17	1584.15	175	1582.76	1.5	1604.60
09/12/19	400	39	1583.06	150	1582.60	19	1580.97	2.8	1579.20	57	1581.43	19	1584.48	175	1582.78	1.5	1578.61
09/13/19	401	39	1583.09	149	1582.63	19	1580.99	2.8	1579.21	57	1581.52	18	1584.51	175	1582.80	1.5	1578.61
09/14/19	402	39	1583.11	149	1582.65	19	1581.01	3.5	1579.20	57	1581.59	19	1584.53	176	1582.82	1.5	1578.59
09/15/19	402	39	1583.13	149	1582.67	19	1581.02	2.8	1579.21	57	1581.67	19	1584.53	176	1582.84	1.5	1578.66
09/16/19 ²	402	39	1583.15	149	1582.69	19	1581.04	3.1	1579.20	57	1581.73	19	1584.55	176	1582.86	1.5	1578.64
09/17/19	403	39	1583.17	150	1582.70	20	1581.05	3.5	1578.81	58	1581.83	19	1584.61	174	1582.87	1.5	1578.50
09/18/19	401	39	1583.18	150	1582.71	19	1581.06	2.8	1578.82	57	1581.88	19	1584.62	175	1582.88	1.5	1578.45
09/19/19	404	39	1583.19	150	1582.72	20	1581.06	2.8	1578.81	57	1581.91	19	1584.62	175	1582.89	1.5	1578.48
09/20/19	403	39	1583.20	150	1582.73	20	1581.07	3.5	1578.82	57	1581.95	19	1584.65	176	1582.90	1.5	1578.45
09/21/19	403	38	1583.21	149	1582.74	20	1581.08	2.8	1578.82	57	1582.01	19	1584.69	176	1582.91	1.5	1578.49
09/22/19	403	39	1583.21	149	1582.75	20	1581.08	3.5	1578.81	57	1582.05	19	1584.66	176	1582.91	1.5	1578.39
09/23/19 ²	403	39	1583.23	149	1582.76	20	1581.09	3.1	1578.82	57	1582.09	19	1584.72	176	1582.92	1.5	1578.60
09/24/19	404	39	1583.22	149	1582.76	19	1581.09	3.4	1578.82	57	1582.12	19	1584.69	175	1582.92	1.5	1578.46
09/25/19	403	39	1583.25	149	1582.77	19	1581.10	2.8	1578.82	57	1582.15	19	1584.74	175	1582.93	1.5	1578.61
09/26/19	404	39	1583.24	149	1582.77	21	1581.10	3.5	1578.82	57	1582.17	18	1584.73	175	1582.93	1.5	1578.45
09/27/19	403	39	1583.25	149	1582.78	20	1581.11	2.8	1578.82	57	1582.20	20	1584.74	176	1582.94	1.5	1578.55
09/28/19	403	38	1583.26	148	1582.78	21	1581.11	2.8	1578.82	57	1582.20	19	1584.74	175	1582.95	1.5	1578.86
09/29/19	404	39	1583.26	148	1582.78	20	1581.11	3.5	1578.82	57	1582.20	18	1584.76	176	1582.95	1.5	1578.57
09/30/19 ²	404	38	1583.27	148	1582.78	21	1581.11	3.1	1578.82	57	1582.22	19	1584.76	176	1582.95	1.5	1578.45
Monthly Average	401	39	1583.09	149	1582.62	20	1580.99	3.0	1579.02	57	1581.52	18	1584.53	175	1582.80	1.5	1579.62
Analytical ¹	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	28	9/17/2019	15	9/17/2019	220	9/17/2019	155	9/17/2019	200	9/17/2019	120	9/17/2019	76	9/17/2019	76	9/17/2019	
Hexavalent Chromium	ND	9/17/2019	0.0060	9/17/2019	0.34	9/17/2019	0.15	9/17/2019	0.63	9/17/2019	0.53	9/17/2019	0.086	9/17/2019	0.048	9/17/2019	
Total Chromium	ND	9/17/2019	0.0072	9/17/2019	0.32	9/17/2019	0.15	9/17/2019	0.61	9/17/2019	0.53	9/17/2019	0.085	9/17/2019	0.047	9/17/2019	

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; ClO₂ = 10 ug/L; NO₂-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 09/03, 09/09, 09/16, 09/23 and 09/30, 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 09/17 for well ART-4; average of both values is presented and used for calculations.
 4: On 09/02, ART-8A offline briefly due to instrument error.
 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 09/01-09/30 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.
 6: On 09/12, PC-150 transducer replaced.

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 (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 ^{2,4,5} (gpm)	Water Elevation (ft amsl)	Flow ^{4,5,6} (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)
09/01/19	0.03	1726.51	0.92	1713.38	0.00	1720.96	0.00	1725.37	0.00	1738.45	0.56	1710.45	3.9	1707.58	1.2	1722.03	0.91	1718.89	4.5	1720.72
09/02/19	0.02	1726.33	0.92	1713.39	0.00	1720.96	0.00	1725.29	0.00	1738.40	0.55	1711.05	3.8	1707.76	1.2	1722.35	0.93	1718.87	4.5	1720.75
09/03/19 ²	0.03	1726.36	0.92	1713.38	0.00	1720.95	0.00	1725.25	0.00	1738.44	0.56	1710.44	3.8	1707.72	1.2	1722.19	0.92	1718.94	4.5	1720.78
09/04/19	0.02	1726.36	0.91	1713.37	0.00	1720.94	0.00	1725.19	0.00	1738.45	0.55	1710.45	3.8	1707.82	1.2	1722.29	0.91	1718.96	4.5	1720.78
09/05/19	0.02	1726.38	0.91	1713.31	0.00	1720.92	0.00	1725.07	0.00	1738.42	0.55	1710.30	3.7	1707.77	1.1	1722.17	0.90	1719.12	4.5	1720.80
09/06/19	0.02	1726.25	0.91	1713.33	0.00	1720.92	0.00	1725.12	0.00	1738.44	0.57	1710.65	3.9	1707.37	1.1	1722.38	0.87	1719.32	4.5	1720.83
09/07/19	0.02	1726.21	0.91	1713.40	0.00	1720.92	0.00	1725.10	0.00	1738.43	0.59	1710.01	3.8	1706.62	1.1	1718.57	0.82	1719.40	4.4	1720.85
09/08/19	0.04	1725.98	0.91	1713.17	0.00	1720.89	0.00	1725.02	0.00	1738.43	0.56	1710.31	3.9	1707.14	1.4	1722.03	0.84	1719.39	4.5	1720.85
09/09/19 ²	0.03	1726.06	0.91	1713.16	0.00	1720.88	0.00	1724.99	0.00	1738.45	0.58	1710.62	3.8	1707.27	1.3	1721.91	0.83	1719.43	4.5	1720.87
09/10/19	0.03	1726.25	0.90	1713.41	0.00	1720.87	0.00	1724.93	0.00	1738.51	0.54	1710.80	3.9	1707.23	1.2	1722.00	0.85	1719.44	4.5	1720.88
09/11/19	0.03	1726.24	0.89	1713.35	0.00	1720.85	0.00	1724.87	0.00	1738.44	0.55	1710.59	4.0	1707.40	1.2	1721.82	0.87	1718.22	4.5	1720.88
09/12/19	0.03	1726.13	0.89	1713.43	0.00	1720.85	0.00	1724.85	0.00	1738.47	0.55	1710.74	4.0	1707.83	1.4	1722.01	1.0	1718.73	4.5	1720.90
09/13/19	0.02	1726.29	0.89	1713.34	0.00	1720.83	0.00	1724.88	0.00	1738.34	0.55	1709.99	4.0	1707.65	1.3	1722.20	0.97	1718.29	4.5	1720.87
09/14/19	0.04	1725.99	0.89	1713.14	0.00	1720.82	0.00	1724.90	0.00	1738.40	0.54	1710.31	4.0	1707.35	1.3	1721.57	1.0	1718.70	4.5	1720.80
09/15/19	0.02	1726.46	0.90	1713.11	0.00	1720.81	0.00	1724.91	0.00	1738.45	0.56	1710.21	3.9	1707.71	1.2	1721.78	0.95	1718.89	4.5	1720.78
09/16/19 ²	0.03	1726.48	0.90	1713.36	0.00	1720.80	0.00	1724.84	0.00	1738.47	0.55	1709.90	3.9	1707.82	1.2	1721.67	0.98	1718.98	4.5	1720.77
09/17/19	0.01	1726.28	0.88	1713.31	0.00	1720.78	0.00	1724.79	0.00	1738.38	0.48	1709.77	4.0	1707.84	1.0	1722.10	0.92	1719.10	4.5	1720.76
09/18/19	0.02	1726.12	0.91	1712.57	0.02	1720.78	0.00	1724.82	0.00	1738.45	0.49	1710.09	4.0	1707.86	1.3	1722.05	1.0	1718.67	4.5	1720.75
09/19/19	0.03	1726.02	0.95	1712.26	0.00	1720.76	0.02	1727.70	0.03	1738.49	0.55	1709.92	4.1	1707.82	1.2	1721.74	0.95	1719.16	4.5	1720.73
09/20/19	0.02	1726.39	0.94	1712.37	0.00	1720.75	0.00	1727.44	0.00	1738.48	0.45	1709.97	4.1	1707.29	1.1	1718.58	0.88	1719.29	4.5	1720.73
09/21/19	0.02	1726.35	0.94	1712.39	0.00	1720.74	0.00	1727.21	0.00	1738.49	0.50	1709.73	4.0	1707.49	1.1	1720.12	0.91	1717.83	4.5	1720.73
09/22/19	0.02	1726.48	0.93	1712.60	0.00	1720.73	0.00	1727.03	0.00	1738.49	0.54	1710.01	3.9	1707.42	1.4	1720.33	1.0	1718.67	4.5	1720.73
09/23/19 ²	0.02	1726.19	0.94	1712.57	0.00	1720.71	0.00	1726.82	0.00	1738.47	0.52	1709.88	4.0	1707.81	1.3	1722.16	0.97	1718.99	4.5	1720.71
09/24/19	0.02	1726.10	0.93	1712.51	0.00	1720.70	0.00	1726.70	0.00	1738.51	0.50	1709.77	4.0	1707.74	1.2	1722.00	0.91	1719.07	4.5	1720.73
09/25/19	0.02	1726.13	0.93	1712.51	0.00	1720.69	0.00	1726.55	0.00	1738.51	0.48	1709.84	4.0	1707.69	1.2	1721.93	0.90	1719.18	4.5	1720.72
09/26/19	0.02	1726.14	0.92	1712.51	0.00	1720.69	0.00	1726.37	0.00	1738.47	0.57	1710.76	4.0	1707.77	1.1	1721.94	0.88	1719.24	4.5	1720.72
09/27/19	0.03	1726.14	0.93	1712.43	0.00	1720.70	0.00	1726.29	0.00	1738.62	0.48	1713.77	4.0	1708.06	1.1	1722.22	0.87	1719.27	4.5	1720.74
09/28/19	0.04	1725.99	0.92	1712.42	0.00	1720.69	0.00	1726.09	0.00	1738.49	0.38	1713.16	4.1	1707.73	1.1	1722.03	0.82	1719.60	4.5	1720.73
09/29/19	0.04	1726.12	0.92	1712.47	0.00	1720.67	0.00	1725.88	0.00	1738.49	0.47	1712.40	4.0	1707.81	1.1	1722.20	0.79	1719.63	4.5	1720.72
09/30/19 ²	0.04	1726.30	0.92	1712.49	0.00	1720.66	0.00	1725.78	0.00	1738.53	0.43	1711.96	4.0	1708.71	1.1	1721.94	0.81	1719.73	4.5	1720.73
Monthly Average	0.03	1726.23	0.92	1712.95	0.00	1720.81	0.00	1725.67	0.00	1738.46	0.53	1710.60	3.9	1707.64	1.2	1721.68	0.91	1719.03	4.5	1720.78
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	620	9/19/2019	55	9/18/2019	230	9/18/2019	260	9/19/2019	160	9/19/2019	260	9/18/2019	580	9/18/2019	560	9/18/2019	460	9/18/2019	590	9/18/2019
Hexavalent Chromium	0.026	9/19/2019	0.053	9/18/2019	0.018	9/18/2019	2.3	9/19/2019	1.3	9/19/2019	0.052	9/18/2019	2.4	9/18/2019	4.2	9/18/2019	5.3	9/18/2019	11	9/18/2019
Total Chromium	2.3	9/19/2019	0.13	9/18/2019	0.027	9/18/2019	2.3	9/19/2019	1.3	9/19/2019	0.059	9/18/2019	2.3	9/18/2019	4.1	9/18/2019	5.3	9/18/2019	11	9/18/2019

Notes:
 Flow reported as gpm is a daily average calculated from the totalizer reading.
 1: Analytical results are reported from TestAmerica.
 2: On 09/03, 09/09, 09/16, 09/23 and 09/30, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
 3: On 09/07, I-D, I-L, I-O, I-U, and I-W, adjusted to meet flow target as directed by the Trust.
 4: On 09/12, I-D, I-E, I-H, and I-O, adjusted to meet flow target as directed by the Trust.
 5: On 09/17, I-D, I-E, I-O, and I-U, adjusted to meet flow target as directed by the Trust.
 6: On 09/21, I-E, I-L, I-N, and I-O, 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 ⁴ (gpm)	Water Elevation (ft amsl)	Flow ⁷ (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ^{3,6} (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ⁶ (gpm)	Water Elevation (ft amsl)	Flow ^{2,4,5,6,9} (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)
09/01/19	0.17	1713.57	1.3	1709.74	5.1	1721.71	6.3	1712.07	3.5	1709.21	1.0	1719.24	2.0	1721.55	3.0	1720.27	0.36	1721.23	2.4	1719.81
09/02/19	0.16	1713.58	1.3	1709.69	5.2	1721.72	6.3	1712.04	3.5	1710.10	0.88	1719.33	1.9	1721.70	2.9	1720.36	0.32	1721.25	2.4	1719.95
09/03/19 ²	0.17	1714.44	1.3	1712.63	5.1	1721.74	6.3	1712.05	3.5	1709.71	1.0	1719.33	1.9	1721.81	3.0	1720.39	0.34	1721.16	2.4	1720.02
09/04/19	0.16	1714.72	1.3	1713.83	5.0	1721.71	6.3	1712.05	3.5	1710.21	0.87	1719.34	1.7	1721.81	2.9	1720.40	0.47	1721.14	2.3	1719.98
09/05/19	0.16	1715.00	1.3	1718.54	5.1	1721.70	6.3	1712.06	3.5	1710.21	0.87	1719.39	1.7	1721.84	2.9	1720.42	0.48	1721.15	2.3	1720.01
09/06/19	0.16	1715.34	1.2	1718.97	5.1	1721.72	6.3	1712.07	3.5	1709.34	0.86	1719.46	1.7	1721.87	2.9	1720.45	0.48	1721.18	2.3	1720.10
09/07/19	0.16	1715.50	1.1	1709.89	5.0	1721.74	6.3	1712.04	3.5	1709.14	0.86	1717.04	1.7	1721.88	2.8	1720.46	0.45	1721.22	2.2	1720.17
09/08/19	0.15	1715.61	1.3	1714.42	5.2	1721.74	6.3	1712.06	3.5	1709.67	1.2	1717.09	1.7	1721.88	2.9	1720.47	0.42	1721.23	2.2	1720.15
09/09/19 ²	0.16	1715.84	1.2	1716.60	5.1	1721.74	6.3	1712.05	3.5	1710.25	1.0	1717.26	1.7	1721.90	2.9	1720.49	0.43	1721.23	2.2	1720.15
09/10/19	0.15	1715.36	1.3	1718.65	4.4	1721.83	6.3	1712.05	3.5	1709.13	1.2	1717.48	1.7	1721.90	2.9	1720.49	0.39	1721.29	2.4	1720.27
09/11/19	0.16	1714.77	1.1	1719.00	4.9	1721.80	6.3	1712.04	3.5	1710.13	1.1	1718.10	1.7	1721.89	2.9	1720.49	0.35	1721.23	2.4	1720.29
09/12/19	0.16	1715.80	1.1	1719.18	4.9	1721.81	6.3	1712.04	3.5	1710.60	1.0	1718.32	1.7	1721.89	2.9	1720.50	0.48	1721.25	2.3	1720.30
09/13/19	0.16	1715.94	1.2	1709.73	4.9	1721.82	6.3	1712.05	3.5	1709.71	1.1	1718.14	1.7	1721.68	3.0	1720.27	0.43	1721.26	2.3	1720.33
09/14/19	0.16	1715.63	1.3	1711.78	4.9	1721.84	6.3	1712.05	3.5	1709.39	1.1	1718.05	2.0	1721.73	3.3	1720.24	0.39	1721.28	2.3	1720.32
09/15/19	0.16	1715.79	1.3	1717.54	4.9	1721.84	6.3	1712.04	3.5	1709.37	1.1	1718.08	1.9	1721.77	3.2	1720.27	0.44	1721.28	2.3	1720.33
09/16/19 ²	0.16	1715.93	1.3	1718.32	4.9	1721.85	6.3	1712.06	3.5	1709.23	1.1	1718.18	1.9	1721.80	3.3	1720.27	0.42	1721.30	2.3	1720.38
09/17/19	0.16	1716.27	1.2	1718.75	4.9	1721.85	6.3	1712.05	3.5	1709.93	1.0	1718.17	1.8	1721.82	3.2	1720.29	0.28	1721.36	2.3	1720.43
09/18/19	0.15	1716.19	1.2	1718.77	4.9	1721.86	6.3	1712.07	3.5	1709.15	0.98	1719.11	1.8	1721.85	3.2	1720.25	0.39	1721.32	2.3	1720.45
09/19/19	0.16	1716.19	1.2	1718.97	4.9	1721.85	6.3	1712.03	3.5	1710.20	0.87	1719.28	1.7	1721.87	3.2	1720.23	0.38	1721.33	2.3	1720.47
09/20/19	0.16	1715.98	1.1	1719.96	4.9	1721.85	6.3	1712.03	3.5	1709.30	0.85	1719.41	1.7	1721.89	3.2	1720.24	0.34	1721.35	2.2	1720.55
09/21/19	0.16	1715.91	1.1	1711.28	4.9	1721.86	6.3	1712.02	3.5	1709.13	0.85	1717.03	1.7	1721.90	3.2	1720.23	0.33	1721.36	2.2	1720.58
09/22/19	0.16	1716.02	1.4	1716.71	4.9	1721.87	6.3	1712.04	3.5	1710.20	1.2	1717.23	1.7	1721.87	3.2	1720.24	0.33	1721.36	2.2	1720.59
09/23/19 ²	0.16	1715.80	1.3	1717.70	4.9	1721.86	6.3	1712.06	3.5	1709.95	1.0	1717.51	1.7	1721.86	3.2	1720.23	0.33	1721.37	2.2	1720.60
09/24/19	0.17	1714.98	1.3	1718.31	4.9	1721.88	6.3	1712.07	3.5	1709.68	1.1	1718.12	1.7	1721.89	3.2	1720.25	0.24	1721.40	2.2	1720.63
09/25/19	0.17	1714.76	1.3	1718.44	4.9	1721.88	6.3	1712.03	3.5	1710.23	1.0	1718.34	1.7	1721.90	3.2	1720.24	0.24	1721.38	2.2	1720.65
09/26/19	0.17	1714.95	1.3	1718.67	4.9	1721.89	6.3	1712.02	3.5	1710.05	0.97	1718.52	1.6	1721.92	3.2	1720.23	0.29	1721.40	2.2	1720.67
09/27/19	0.17	1713.98	1.3	1719.13	4.9	1721.91	6.3	1712.05	3.5	1709.24	0.94	1718.91	1.6	1721.95	3.2	1720.25	0.28	1721.41	2.2	1720.71
09/28/19	0.18	1714.42	1.2	1719.22	4.9	1721.91	6.3	1712.05	3.5	1709.93	0.88	1719.08	1.6	1721.96	3.2	1720.25	0.30	1721.42	2.2	1720.68
09/29/19	0.17	1715.33	1.2	1719.62	4.9	1721.90	6.3	1712.06	3.5	1709.50	0.88	1719.22	1.6	1721.97	3.2	1720.25	0.27	1721.42	2.2	1720.69
09/30/19 ²	0.18	1716.01	1.2	1719.61	4.9	1721.90	6.3	1712.06	3.5	1709.32	0.88	1719.29	1.6	1721.98	3.2	1720.26	0.28	1721.43	2.2	1720.71
Monthly Average	0.16	1715.32	1.2	1716.46	4.9	1721.82	6.3	1712.05	3.5	1709.71	0.98	1718.44	1.7	1721.85	3.1	1720.32	0.36	1721.30	2.3	1720.37
Analytical ¹	Conc (mg/L)	Date	Conc (mg/L)	Date	Conc ⁸ (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	1,100	9/18/2019	1,300	9/18/2019	680	9/19/2019	300	9/19/2019	270	9/19/2019	350	9/18/2019	510	9/18/2019	450	9/18/2019	820	9/18/2019	840	9/18/2019
Hexavalent Chromium	17	9/18/2019	14	9/18/2019	8.8	9/19/2019	4.0	9/19/2019	2.4	9/19/2019	0.47	9/18/2019	5.0	9/18/2019	4.6	9/18/2019	15	9/18/2019	15	9/18/2019
Total Chromium	16	9/18/2019	14	9/18/2019	8.4	9/19/2019	3.9	9/19/2019	2.3	9/19/2019	0.50	9/18/2019	5.1	9/18/2019	4.3	9/18/2019	14	9/18/2019	14	9/18/2019

Notes:
 Flow reported as gpm is a daily average calculated from the totalizer reading.
 ^ = Instrument related QC is outside acceptance limits.
 1: Analytical results are reported from TestAmerica.
 2: On 09/03, 09/09, 09/16, 09/23 and 09/30, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
 3: On 09/07, I-D, I-L, I-O, I-U, and I-W, adjusted to meet flow target as directed by the Trust.
 4: On 09/12, I-D, I-E, I-H, and I-O, adjusted to meet flow target as directed by the Trust.
 5: On 09/17, I-D, I-E, I-O, and I-U, adjusted to meet flow target as directed by the Trust.
 6: On 09/21, I-E, I-L, I-N, and I-O, adjusted to meet flow target as directed by the Trust.
 7: On 09/10, I-I offline briefly due to motor replacement.
 8: Duplicates taken on 09/19 for well I-I; average of both values is presented and used for calculations.
 9: On 09/03, I-O and I-W 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 ¹⁰ (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, 5} (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ^{9, 11} (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation ¹² (ft amsl)		
09/01/19	0.24	1719.42	1.3	1713.56	3.8	1705.96	0.55	1707.86	0.68	1712.93	4.5	1719.48	0.51	1713.08	3.2	1717.87	1.5	1710.46	7.0	< 1707.89
09/02/19	0.24	1719.44	1.3	1713.98	3.8	1706.00	0.56	1707.86	0.66	1712.93	4.5	1719.48	0.42	1712.12	3.1	1717.95	1.5	1711.40	7.0	< 1707.89
09/03/19 ²	0.24	1719.41	1.3	1713.93	3.8	1706.00	0.56	1707.86	0.67	1712.98	4.5	1719.50	0.46	1712.34	3.1	1717.97	1.5	1711.18	7.0	< 1707.89
09/04/19	0.24	1719.43	1.2	1713.98	3.8	1706.01	0.55	1707.86	0.65	1713.16	4.4	1719.46	0.58	1717.22	3.1	1717.99	1.5	1711.36	6.9	< 1707.89
09/05/19	0.24	1719.47	1.2	1714.18	3.8	1705.99	0.56	1707.86	0.62	1715.26	4.3	1719.44	0.56	1717.14	3.1	1718.01	1.5	1711.33	6.9	< 1707.89
09/06/19	0.23	1719.53	1.2	1714.61	3.9	1706.00	0.56	1707.86	0.51	1715.37	4.3	1719.48	0.56	1711.90	3.1	1718.02	1.5	1710.75	6.9	< 1707.89
09/07/19	0.23	1719.59	1.0	1714.66	3.9	1706.02	0.56	1707.87	0.54	1710.56	4.3	1719.51	0.63	1716.06	3.0	1718.03	1.5	1710.64	6.8	< 1707.89
09/08/19	0.22	1719.61	1.1	1714.41	3.8	1706.00	0.56	1707.85	0.77	1711.33	4.4	1719.51	0.65	1715.92	3.1	1718.04	1.5	1711.15	7.0	< 1707.89
09/09/19 ²	0.23	1719.64	1.1	1714.66	3.8	1706.00	0.56	1707.86	0.66	1711.61	4.4	1719.51	0.64	1715.95	3.1	1718.06	1.5	1711.06	6.9	< 1707.89
09/10/19	0.21	1719.68	1.3	1714.70	3.8	1706.00	0.56	1707.84	0.72	1711.88	4.4	1719.60	0.59	1716.12	3.1	1718.07	1.5	1710.78	7.1	< 1707.89
09/11/19	0.21	1719.66	1.3	1714.75	3.8	1706.00	0.56	1707.84	0.71	1712.21	4.4	1719.56	0.64	1715.88	3.1	1718.07	1.5	1711.15	7.0	< 1707.89
09/12/19	0.21	1719.72	1.5	1714.85	3.8	1706.00	0.56	1707.86	0.69	1712.40	4.3	1719.56	0.67	1701.70	3.0	1718.09	1.5	1711.07	7.1	< 1707.89
09/13/19	0.20	1719.78	1.5	1715.18	3.8	1706.01	0.56	1707.84	0.70	1712.38	4.3	1719.59	0.68	1701.75	3.1	1717.53	1.5	1711.11	7.1	< 1707.89
09/14/19	0.19	1719.82	1.4	1715.24	3.8	1706.01	0.56	1707.85	0.69	1712.59	4.4	1719.61	0.73	1702.04	3.5	1717.45	1.5	1712.39	7.0	< 1707.89
09/15/19	0.19	1719.90	1.2	1715.09	3.8	1706.01	0.56	1707.84	0.67	1712.76	4.5	1719.61	0.64	1701.98	3.5	1717.43	1.5	1711.29	6.8	< 1707.89
09/16/19 ²	0.19	1719.97	1.3	1714.69	3.8	1706.02	0.56	1707.84	0.68	1712.91	4.4	1719.64	0.68	1702.12	3.5	1717.42	1.5	1711.63	6.9	< 1707.89
09/17/19	0.21	1719.47	1.3	1714.73	3.7	1706.02	0.56	1707.86	0.66	1713.00	4.4	1719.64	0.67	1702.06	3.5	1717.39	1.4	1711.92	6.7	< 1707.89
09/18/19	0.25	1719.38	1.2	1714.79	3.7	1705.95	0.56	1707.85	0.79	1711.02	4.3	1719.66	0.63	1701.60	3.5	1717.39	1.4	1711.91	7.1	< 1707.89
09/19/19	0.27	1719.39	1.3	1714.68	3.8	1705.95	0.56	1707.86	0.74	1711.98	4.3	1719.65	0.56	1701.79	3.5	1717.35	1.5	1711.81	7.0	< 1707.89
09/20/19	0.26	1719.42	1.2	1714.71	3.8	1705.95	0.56	1707.88	0.71	1712.24	4.3	1719.66	0.58	1701.56	3.5	1717.36	1.4	1710.61	7.3	< 1707.89
09/21/19	0.26	1719.35	1.2	1714.73	3.8	1705.95	0.56	1707.87	0.70	1712.51	4.4	1719.68	0.63	1707.76	3.5	1717.35	1.4	1711.14	7.2	< 1707.89
09/22/19	0.26	1719.39	1.2	1714.28	3.7	1705.95	0.57	1707.86	0.68	1712.67	4.5	1719.68	0.64	1701.91	3.5	1717.38	1.4	1711.53	7.2	< 1707.89
09/23/19 ²	0.26	1719.33	1.2	1714.71	3.8	1705.95	0.57	1707.84	0.69	1712.93	4.4	1719.67	0.64	1701.83	3.5	1717.35	1.4	1711.80	7.2	< 1707.89
09/24/19	0.27	1719.40	1.6	1714.70	3.7	1705.95	0.56	1707.84	0.66	1713.20	4.4	1719.70	0.67	1700.43	3.5	1717.36	1.4	1712.29	7.2	< 1707.89
09/25/19	0.28	1719.21	1.6	1714.69	3.7	1705.95	0.56	1707.86	0.66	1713.20	4.4	1719.71	0.62	1699.87	3.5	1717.34	1.4	1711.95	7.2	< 1707.89
09/26/19	0.29	1719.25	1.5	1714.81	3.7	1705.95	0.56	1707.88	0.66	1713.22	4.3	1719.73	0.69	1700.28	3.5	1717.35	1.4	1712.27	7.1	< 1707.89
09/27/19	0.27	1719.45	1.4	1714.99	3.7	1705.95	0.57	1707.85	0.65	1713.27	4.3	1719.76	0.76	1700.35	3.5	1717.36	1.4	1712.62	7.3	< 1707.89
09/28/19	0.25	1719.46	1.3	1714.59	3.7	1705.94	0.57	1707.84	0.64	1713.36	4.4	1719.76	0.77	1700.31	3.5	1717.34	1.4	1712.37	7.3	< 1707.89
09/29/19	0.25	1719.45	1.6	1714.59	3.7	1705.94	0.57	1707.86	0.64	1713.40	4.5	1719.75	0.82	1700.53	3.5	1717.34	1.4	1712.55	7.2	< 1707.89
09/30/19 ²	0.25	1719.53	1.4	1714.60	3.7	1705.94	0.57	1707.87	0.64	1713.39	4.4	1719.75	0.79	1701.33	3.5	1717.35	1.4	1712.92	7.2	< 1707.89
Monthly Average	0.24	1719.52	1.3	1714.60	3.8	1705.98	0.56	1707.86	0.67	1712.76	4.4	1719.61	0.64	1706.50	3.3	1717.63	1.4	1711.55	7.1	< 1707.89
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	850	9/18/2019	780	9/18/2019	410	9/18/2019	1,500	9/18/2019	1,400	9/18/2019	810	9/19/2019	800	9/18/2019	700	9/18/2019	710	9/18/2019	320	9/19/2019
Hexavalent Chromium	15	9/18/2019	0.22	9/18/2019	0.69	9/18/2019	17	9/18/2019	17	9/18/2019	12	9/19/2019	15	9/18/2019	6.6	9/18/2019	0.44	9/18/2019	7.2	9/19/2019
Total Chromium	14	9/18/2019	0.26	9/18/2019	0.73	9/18/2019	16	9/18/2019	16	9/18/2019	12	9/19/2019	15	9/18/2019	6.1	9/18/2019	0.46	9/18/2019	7.1	9/19/2019

Notes:
 Flow reported as gpm is a daily average calculated from the totalizer reading.
 1: Analytical results are reported from TestAmerica.
 2: On 09/03, 09/09, 09/16, 09/23 and 09/30, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
 3: On 09/07, I-D, I-L, I-O, I-U, and I-W, adjusted to meet flow target as directed by the Trust.
 5: On 09/17, I-D, I-E, I-O, and I-U, adjusted to meet flow target as directed by the Trust.
 9: On 09/03, I-O and I-W adjusted to meet flow target as directed by the Trust.
 10: On 09/17, I-Q adjusted to meet flow target as directed by the Trust.
 11: On 09/23, I-W adjusted to meet flow target as directed by the Trust.
 12: 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.

Table 4 - Treatment Plant Operational Metrics

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)
09/01/19	941	62				0.00				1,002		111				
09/02/19	946	61				0.00				1,012		109				
09/03/19 ³	943	62				0.00				1,005		103	130	12	0.014	0.0093
09/04/19	932	62	0.22	ND	710	0.00				994		112				
09/05/19	970	61				0.00				1,032		108				
09/06/19	957	61				0.00				1,018		113				
09/07/19	939	61				0.00				1,000		116				
09/08/19	944	61				0.00				1,005	130	109				
09/09/19 ³	942	61				0.00				1,003		104		11	0.013	0.011
09/10/19	947	61				0.00				1,007		110				
09/11/19	948	61	0.22	ND	570	0.00				1,009		110				
09/12/19	981	61				0.00				1,042		102				
09/13/19	969	61				0.00				1,030		105				
09/14/19	949	62				0.00				1,012		65				
09/15/19	951	60				0.00				1,012		104				
09/16/19 ³	950	61				0.00				1,011		105		11	0.015	0.014
09/17/19	950	62				0.00				1,012		109				
09/18/19	949	62	0.50	ND	510	0.00				1,011		99				
09/19/19	962	62				0.00				1,024		106				
09/20/19	951	60				0.00				1,010		105				
09/21/19	951	61				0.00				1,012		106				
09/22/19	953	62				0.00				1,015		105				
09/23/19 ³	952	61				0.00				1,013		102		11	0.018	0.014
09/24/19	952	61				0.00	0.066	0.016	72	1,013		104				
09/25/19	952	61	0.078	ND	620	7.5				1,061		97				
09/26/19	967	61				0.00				1,028		101				
09/27/19	952	61				0.00				1,013		106				
09/28/19	951	60				0.00				1,012		104				
09/29/19	951	67				0.00				1,019		103				
09/30/19 ³	951	54				0.00				1,005		123		11	0.011	0.010
Monthly Average ²	952	61	0.24	ND	604	0.25	0.066	0.016	72	1,015	123	105	130	11	0.015	0.012

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).
 1: ETI = Envirogen internal process control data, TA = TestAmerica data.
 2: All average concentrations reported are monthly flow weighted averages.
 3: On 09/03, 09/09, 09/16, 09/23 and 09/30, 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 09/01 to 09/30 due to FBR plant influent strainers clogging, except for monthly sampling and maintenance.
 5: From 09/01 to 09/30, 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 ₂ (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)
09/01/19	1,074	6.4	-401	1,009	6.9	-413	1,007		ND					36
09/02/19	1,073	6.4	-417	987	6.8	-414	1,065		ND					40
09/03/19	1,053	6.4	-413	790	6.8	-416	1,046		ND	0.036 J	0.0036 J	ND	ND	32
09/04/19	1,035	6.6	-430	1,032	7.0	-418	1,037		ND					36
09/05/19	1,035	6.5	-434	862	6.9	-399	1,035		ND					40
09/06/19	1,039	6.5	-442	1,034	6.9	-408	1,029		ND					36
09/07/19	1,034	6.5	-445	1,026	6.9	-408	1,036	0.0058	ND					37
09/08/19	1,039	6.6	-449	752	6.9	-414	1,030		ND					38
09/09/19	1,033	6.6	-437	1,042	6.6	-410	1,023		ND		0.0050	ND	ND	27
09/10/19	1,015	6.6	-445	945	6.6	-413	1,012		ND					22
09/11/19	1,052	6.6	-446	923	6.6	-415	1,011		ND					33
09/12/19	1,043	6.6	-421	961	6.6	-389	1,039		ND					32
09/13/19	1,032	6.5	-428	725	6.7	-388	1,038		ND					39
09/14/19	1,034	6.5	-433	933	6.8	-396	1,030	0.0047 J	ND					65
09/15/19	1,032	6.6	-438	986	6.9	-403	1,025		ND					48
09/16/19	1,032	6.6	-442	940	6.9	-410	1,025		ND		0.0032 J	ND	ND	51
09/17/19	1,063	6.5	-444	897	6.8	-411	1,037		ND					22
09/18/19	1,061	6.5	-445	924	6.9	-413	1,055		ND					30
09/19/19	1,061	6.6	-452	764	6.8	-417	1,052		ND					25
09/20/19	1,029	6.6	-429	789	6.7	-383	1,035		ND					42
09/21/19	1,028	6.6	-436	945	6.8	-388	1,017	0.013	ND					25
09/22/19	1,007	6.5	-440	1,003	7.0	-393	1,009		ND					55
09/23/19	1,053	6.6	-445	977	6.9	-399	1,034		ND		0.0036 J	ND	ND	7.0
09/24/19	1,062	6.5	-442	972	6.4	-405	1,051		ND					38
09/25/19	1,062	6.5	-442	934	6.5	-404	1,037		ND					32
09/26/19	1,048	6.5	-446	893	6.5	-408	1,042		ND					19
09/27/19	1,038	6.6	-369	830	6.6	-315	1,031		ND					33
09/28/19	1,039	6.6	-389	1,016	6.5	-328	1,028	ND	ND					42
09/29/19	1,037	6.6	-390	873	6.4	-335	1,028		ND					37
09/30/19	1,021	6.6	-392	1,142	6.4	-339	1,015		ND		0.0045 J	ND	ND	44
Monthly Average ²	1,042	6.5	-429	930	6.7	-395	1,032	0.0061	ND	0.036	0.0040	ND	ND	35

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.

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)		
09/15/19	30.5	36.0		
09/30/19	30.8	35.6		

GW-11 Leak Detection Monitoring				
Date	Amount Pumped ² (gallons)			
	NW Corner	NE Corner	SW Corner	SE Corner
09/11/19	0	32	212	0
09/25/19	0	0	230	0

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)		
Oct 2018	1,028	208	10.0	140	867	728
Nov 2018	1,042	262	9.9	130	979	771
Dec 2018	1,046	262	10	140	1,009	811
Jan 2019	1,067	247	10	140	991	861
Feb 2019	1,070	264	8.8	130	997	922
Mar 2019	1,035	233	10	140	932	962
Apr 2019	1,038	102	9.9	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	140	621	729
Aug 2019	1,005	123	10.1	140	664	674
Sep 2019	1,015	123	11.2	130	662	629

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.

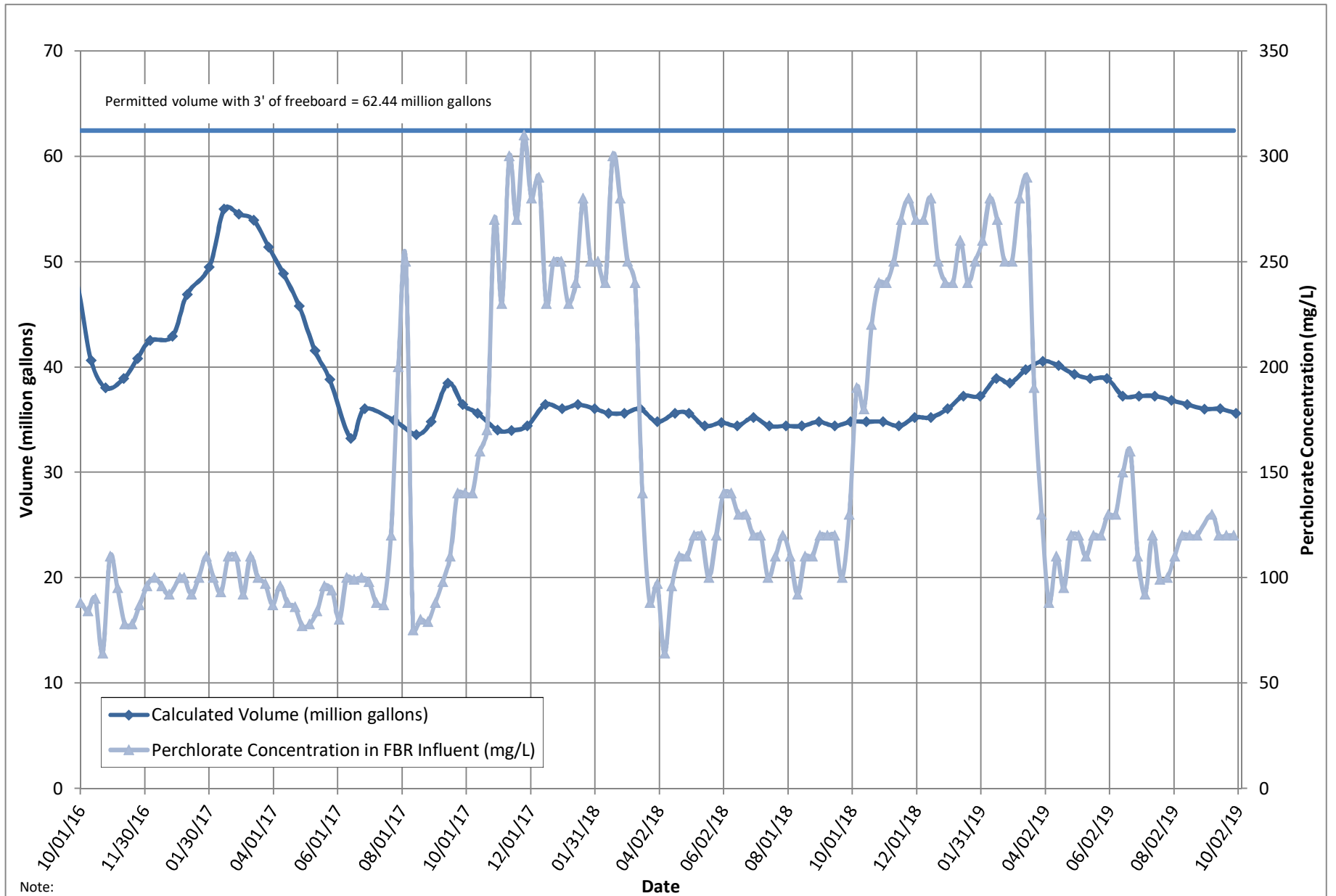
2: Treatment of AP-5 wash water began on July 17, 2017 and was suspended on August 4, 2017 to allow Envirogen to evaluate internal process controls to meet discharge limits. Treatment of AP-5 wash water resumed on August 31, 2017. The AP-5 wash water feed rate was decreased in March 2019 to prepare for 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 $[(0.9 \cdot \text{NO}_3 \text{ as N} + 0.17 \cdot \text{ClO}_3 + 0.18 \cdot \text{ClO}_4) \cdot \text{Flow} \cdot 1440 / 1000000 \cdot 8.34]$.

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 ^{2,3} (gpm)	Water Elevation (ft amsl)	Flow ^{5,6,7} (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)
09/01/19	2.7	1717.21	1.2	1713.35	0.81	1714.70	1.3	1715.34	2.0	1712.82	2.1	1712.13	1.6	1716.78	0.53	1718.93
09/02/19	2.7	1716.12	1.3	1713.46	0.84	1714.41	1.4	1715.80	2.0	1714.35	2.2	1712.55	1.7	1717.16	0.58	1718.00
09/03/19	2.5	1714.79	1.1	1713.78	0.78	1713.70	1.2	1716.26	1.8	1714.94	1.9	1714.02	1.5	1717.43	0.50	1717.44
09/04/19	2.7	1714.27	1.2	1713.48	0.82	1712.69	1.4	1717.43	1.9	1715.67	2.0	1714.07	1.6	1718.41	0.56	1716.76
09/05/19	2.6	1714.23	1.2	1713.36	0.81	1712.60	1.3	1716.16	1.8	1715.61	1.9	1714.27	1.5	1718.05	0.53	1716.70
09/06/19	2.6	1716.05	1.2	1712.19	0.80	1710.07	1.4	1714.21	1.8	1715.40	1.9	1714.44	1.5	1717.84	0.55	1716.20
09/07/19	2.6	1716.21	1.2	1710.67	0.80	1710.10	1.3	1713.04	1.8	1714.19	1.9	1713.50	1.6	1716.14	0.55	1715.45
09/08/19	2.8	1714.78	1.4	1711.36	0.97	1710.20	1.3	1712.64	1.9	1714.26	2.0	1714.76	0.40	1718.82	0.60	1715.97
09/09/19	2.5	1714.37	0.99	1711.28	0.68	1710.24	1.3	1712.71	1.8	1714.22	2.0	1712.67	0.01	1719.47	0.50	1716.14
09/10/19	2.9	1716.88	1.1	1713.54	0.82	1710.51	1.3	1716.53	1.7	1716.37	1.9	1716.72	1.6	1729.08	0.67	1718.62
09/11/19	2.9	1712.13	1.1	1714.07	0.81	1710.44	1.3	1715.59	1.7	1716.30	1.9	1714.45	1.5	1718.04	0.62	1710.97
09/12/19	2.9	1712.19	1.2	1714.16	0.83	1709.66	1.3	1715.74	1.9	1717.71	1.9	1715.07	1.4	1717.61	0.55	1712.62
09/13/19	2.9	1711.42	1.2	1713.49	0.82	1712.51	1.3	1715.20	1.8	1715.64	1.9	1715.21	1.5	1718.13	0.55	1716.12
09/14/19	2.8	1711.77	1.2	1711.52	0.81	1708.79	1.3	1713.11	1.9	1713.97	1.9	1713.75	0.54	1717.34	0.55	1715.10
09/15/19	2.9	1712.07	1.2	1711.48	0.81	1708.85	1.4	1713.67	1.9	1712.84	2.0	1715.82	0.64	1721.91	0.53	1716.61
09/16/19	2.9	1712.42	1.1	1712.40	0.82	1714.74	1.3	1712.52	1.8	1714.42	1.9	1715.40	1.9	1724.21	0.54	1718.12
09/17/19	2.8	1710.42	1.1	1713.86	0.83	1711.82	1.3	1713.32	1.8	1716.02	1.9	1713.77	1.8	1713.51	0.47	1717.17
09/18/19	2.8	1710.47	1.1	1713.88	0.81	1711.93	1.3	1712.91	1.8	1715.87	1.8	1713.04	1.8	1713.51	0.47	1717.62
09/19/19	2.9	1710.47	1.2	1713.82	0.85	1711.93	1.1	1713.36	1.9	1715.68	0.01	1713.74	2.0	1713.92	0.52	1717.09
09/20/19	2.8	1710.25	1.1	1713.49	0.83	1711.47	1.1	1713.88	1.9	1716.09	0.47	1726.39	1.9	1712.65	0.41	1724.01
09/21/19	2.8	1713.95	1.1	1708.63	0.78	1709.18	1.2	1715.95	1.9	1713.55	0.04	1723.13	2.0	1711.68	0.38	1718.04
09/22/19	2.8	1712.32	1.1	1709.25	0.93	1711.45	1.1	1714.40	1.7	1713.90	1.9	1718.30	1.8	1715.69	0.36	1718.00
09/23/19	2.8	1711.53	1.1	1713.61	0.86	1710.28	1.1	1717.29	1.7	1715.72	1.8	1713.52	1.8	1713.52	0.47	1720.07
09/24/19	2.8	1710.05	1.1	1712.66	0.85	1712.82	1.2	1717.48	1.5	1715.95	1.1	1714.25	1.8	1713.68	0.42	1717.76
09/25/19	2.8	1713.05	1.1	1710.36	0.84	1709.84	1.3	1717.80	1.6	1718.22	1.4	1716.97	1.7	1713.51	0.44	1718.50
09/26/19	2.8	1711.53	1.1	1711.36	0.83	1710.56	1.3	1708.62	1.5	1717.49	1.5	1717.85	1.9	1713.53	0.40	1718.12
09/27/19	2.8	1715.23	1.1	1714.36	0.84	1710.62	1.3	1709.12	1.4	1718.62	1.4	1719.15	1.8	1722.21	0.34	1719.52
09/28/19	2.8	1712.73	1.1	1711.96	0.85	1709.72	1.3	1710.42	1.3	1720.62	1.3	1716.25	1.8	1714.51	0.36	1722.22
09/29/19	3.0	1710.67	1.0	1710.24	0.86	1710.12	1.2	1708.58	1.5	1719.70	1.6	1719.95	1.7	1713.67	0.52	1719.22
09/30/19	2.6	1711.31	1.0	1712.94	0.87	1709.63	1.2	1714.94	1.7	1717.22	1.6	1715.66	1.7	1714.20	0.52	1712.99
Monthly Average	2.8	1713.03	1.1	1712.47	0.83	1711.19	1.3	1714.13	1.8	1715.78	1.6	1715.77	1.5	1716.88	0.50	1717.33
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
Perchlorate	510	9/19/2019	1,600	9/19/2019	680	9/19/2019	130	9/19/2019	320	9/19/2019	690	9/19/2019	980	9/19/2019	1,200	9/19/2019
Hexavalent Chromium	0.040	9/19/2019	0.22	9/19/2019	0.40	9/19/2019	0.030	9/19/2019	0.027	9/19/2019	0.027	9/19/2019	0.042	9/19/2019	0.095	9/19/2019
Total Chromium	0.041	9/19/2019	0.23	9/19/2019	0.41	9/19/2019	0.036	9/19/2019	0.030	9/19/2019	0.033	9/19/2019	0.048	9/19/2019	0.10	9/19/2019

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 9/19, well E2-3 was offline briefly due to instrument error.
 3: On 09/21, well E2-3 was offline briefly due to instrument error.
 4: Duplicates taken on 09/19 for well E2-3; average of both values is presented and used for calculations.
 5: On 09/10, E2-4 offline briefly due to instrument error.
 6: On 09/15, E2-4 offline briefly due to instrument error.
 7: On 09/16, E2-4 offline for pump replacement.

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

