

Table 1 - Seep Well Field (SWF) Operational Metrics

Nevada Environmental Response Trust I Groundwater Extraction and Treatment System I 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)
11/01/19	644	166	1536.59	89	1542.35	129	1541.86	110	1537.75	71	1546.00	102	1547.54	50	1548.64	19	1549.71	10	1522.42
11/02/19	643	166	1536.52	88	1542.27	130	1541.83	110	1537.69	71	1545.95	102	1547.52	50	1548.61	20	1549.68	9.7	1522.43
11/03/19	671	170	1536.48	90	1541.28	134	1541.80	112	1537.65	73	1545.92	104	1547.49	52	1548.59	20	1549.66	11	1522.22
11/04/19 ²	657	168	1536.44	89	1541.95	132	1541.77	111	1537.62	72	1545.88	103	1547.47	51	1548.57	20	1549.64	10	1522.15
11/05/19	638	161	1536.41	84	1542.73	126	1541.75	106	1537.59	68	1545.90	99	1547.46	48	1548.55	19	1549.63	9.1	1522.13
11/06/19	639	173	1536.38	92	1542.43	136	1541.74	115	1537.56	75	1545.88	106	1547.44	53	1548.54	20	1549.61	10	1521.98
11/07/19	649	172	1536.27	91	1542.03	135	1541.48	114	1537.53	74	1545.88	105	1547.42	52	1548.52	20	1549.59	10	1521.82
11/08/19	642	160	1536.27	84	1541.39	124	1541.20	105	1537.53	67	1545.85	99	1547.41	47	1548.52	19	1549.59	9.7	1521.83
11/09/19	644	167	1536.25	88	1542.83	131	1541.20	110	1537.51	72	1545.84	102	1547.41	51	1548.51	19	1549.59	9.7	1521.81
11/10/19	644	166	1536.23	88	1541.18	130	1541.20	110	1537.50	71	1545.83	103	1547.41	50	1548.51	20	1549.59	10	1521.90
11/11/19 ²	644	167	1536.21	88	1542.10	130	1541.20	110	1537.48	72	1545.81	102	1547.40	50	1548.50	20	1549.58	10	1521.68
11/12/19	647	167	1533.11	88	1541.10	131	1541.18	110	1537.47	72	1545.84	103	1547.41	50	1548.51	19	1549.59	9.7	1521.76
11/13/19	644	167	1533.12	88	1542.12	130	1541.18	110	1537.46	72	1545.85	103	1547.40	50	1548.50	20	1549.58	10	1521.68
11/14/19	656	167	1533.11	88	1541.62	131	1541.18	110	1537.45	72	1545.85	102	1547.41	51	1548.51	19	1549.59	9.7	1521.70
11/15/19	650	166	1533.13	88	1542.29	130	1541.20	110	1537.46	72	1545.86	103	1547.43	50	1548.54	19	1549.62	9.7	1521.72
11/16/19	650	167	1533.15	88	1541.79	131	1541.22	110	1537.49	72	1545.88	102	1547.47	50	1548.58	20	1549.67	9.7	1521.73
11/17/19	653	167	1533.18	88	1541.85	130	1541.26	110	1537.50	72	1545.94	103	1547.52	51	1548.64	19	1549.72	9.7	1521.80
11/18/19 ²	652	167	1533.13	88	1541.81	130	1541.21	110	1537.47	72	1545.86	102	1547.43	50	1548.56	20	1549.65	9.7	1521.71
11/19/19	613	157	1536.43	83	1542.07	123	1541.39	103	1537.75	67	1546.05	97	1547.63	47	1548.75	18	1549.83	9.0	1522.42
11/20/19	656	167	1536.54	90	1541.50	130	1541.51	110	1537.84	72	1546.18	103	1547.78	50	1548.90	20	1549.98	9.7	1522.09
11/21/19	665	164	1537.13	88	1541.88	128	1541.60	109	1537.94	71	1546.27	101	1547.90	50	1549.02	19	1550.10	10	1521.91
11/22/19	656	166	1537.19	89	1542.46	130	1541.73	110	1537.96	71	1546.36	103	1547.98	51	1549.11	20	1550.20	9.7	1521.93
11/23/19	652	168	1537.26	90	1541.15	131	1541.79	111	1538.02	72	1546.43	103	1548.07	50	1549.20	20	1550.29	9.8	1521.93
11/24/19	661	168	1537.35	91	1541.28	131	1541.87	111	1538.10	72	1546.52	103	1548.18	51	1549.31	20	1550.40	9.8	1521.99
11/25/19	659	168	1537.43	91	1542.67	132	1541.98	112	1538.16	72	1546.65	104	1548.28	50	1549.42	20	1550.52	11	1522.12
11/26/19	644	166	1541.81	90	1542.07	131	1542.07	109	1538.24	72	1546.74	102	1548.40	50	1549.54	20	1550.64	9.7	1522.10
11/27/19	654	166	1537.61	90	1541.34	130	1542.17	110	1538.29	71	1546.82	103	1548.50	50	1549.65	19	1550.74	9.7	1522.22
11/28/19	651	168	1537.75	91	1541.88	131	1542.29	111	1538.41	72	1546.96	102	1548.63	51	1549.78	20	1550.88	10	1522.18
11/29/19	671	166	1537.82	91	1541.85	131	1542.33	110	1538.46	71	1547.06	102	1548.72	50	1549.86	20	1550.96	9.7	1522.16
11/30/19	691	167	1537.93	91	1541.82	130	1542.44	110	1538.52	72	1547.12	103	1548.81	51	1549.96	19	1551.07	9.7	1522.23
Monthly Average	651	166	1536.14	89	1541.90	130	1541.62	110	1537.78	71	1546.17	102	1547.76	50	1548.88	20	1549.96	10	1521.99
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	
Perchlorate	13	11/7/2019	15	11/7/2019	9.3	11/7/2019	7.2	11/7/2019	2.8	11/7/2019	0.24	11/7/2019	0.0047	11/7/2019	ND	11/7/2019	1.8	11/7/2019	
Hexavalent Chromium	0.0042	11/7/2019	ND	11/7/2019	ND	11/7/2019	0.0051	11/7/2019	ND	11/7/2019	ND	11/7/2019	ND	11/7/2019	ND	11/7/2019	ND	11/7/2019	
Total Chromium	0.0053	11/7/2019	0.0031	11/7/2019	ND	11/7/2019	0.0053	11/7/2019	ND	11/7/2019	ND	11/7/2019	ND	11/7/2019	ND	11/7/2019	ND	11/7/2019	

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 11/04, 11/11 and 11/18, 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: Duplicates taken on 11/07 for well PC-116R; 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* (gpm)	Water Elevation (ft amsl)	
11/01/19	407	39	1583.25	149	1582.83	21	1581.10	2.8	1578.82	57	1582.19	19	1584.68	172	1582.91	1.5	1578.64	
11/02/19	405	39	1583.18	148	1582.76	20	1581.05	3.5	1578.81	57	1582.16	18	1584.66	171	1582.84	1.5	1578.59	
11/03/19	423	40	1583.13	154	1582.70	21	1581.01	2.8	1578.81	59	1582.16	19	1584.68	178	1582.80	1.5	1578.68	
11/04/19 ²	414	40	1583.09	151	1582.67	21	1580.98	3.1	1578.81	58	1582.16	19	1584.68	174	1582.76	1.5	1578.67	
11/05/19	404	38	1583.06	149	1582.64	20	1580.96	3.5	1578.82	57	1582.14	19	1584.65	172	1582.74	1.5	1578.73	
11/06/19	404	39	1583.04	149	1582.62	19	1580.94	2.8	1578.82	57	1582.14	18	1584.68	177	1582.72	1.5	1578.67	
11/07/19	404	38	1582.02	149	1582.60	20	1580.93	2.8	1578.82	57	1582.14	18	1584.65	165	1582.70	1.5	1578.72	
11/08/19	403	39	1583.00	149	1582.58	19	1580.92	3.5	1578.81	57	1582.14	19	1584.68	170	1582.69	1.5	1578.63	
11/09/19	403	38	1582.98	147	1582.57	20	1580.91	2.8	1578.82	57	1582.14	19	1584.65	170	1582.68	1.5	1578.73	
11/10/19	403	39	1582.99	148	1582.56	19	1580.90	2.8	1578.81	57	1582.11	18	1584.65	170	1582.67	1.5	1578.70	
11/11/19 ²	403	39	1582.96	147	1582.54	20	1580.89	2.8	1578.82	57	1582.14	18	1584.63	170	1582.65	1.5	1578.64	
11/12/19	403	39	1582.96	149	1582.54	19	1580.89	2.8	1578.82	57	1582.11	18	1584.65	172	1582.65	1.5	1578.71	
11/13/19	403	38	1582.94	149	1582.53	19	1580.88	2.8	1578.82	57	1582.08	19	1584.66	171	1582.64	1.5	1578.68	
11/14/19	402	38	1582.94	149	1582.52	20	1580.88	2.8	1578.82	57	1582.08	18	1584.62	170	1582.64	1.5	1578.66	
11/15/19	403	38	1582.95	149	1582.52	19	1580.88	2.8	1578.82	57	1582.08	18	1584.62	170	1582.64	1.5	1578.68	
11/16/19	402	38	1582.94	148	1582.53	19	1580.89	3.5	1578.82	57	1582.08	18	1584.62	169	1582.64	1.5	1578.66	
11/17/19	402	39	1582.95	147	1582.54	19	1580.89	2.8	1578.82	57	1582.08	19	1584.62	169	1582.65	1.5	1578.65	
11/18/19 ²	402	39	1582.93	148	1582.51	19	1580.88	3.1	1578.82	57	1582.08	18	1584.63	169	1582.66	1.5	1578.68	
11/19/19	403	38	1582.96	149	1582.56	19	1580.91	3.5	1578.82	57	1582.08	18	1584.62	171	1582.67	1.5	1578.67	
11/20/19	402	38	1582.96	149	1582.55	19	1580.90	2.8	1578.81	57	1582.08	18	1584.63	171	1582.66	1.5	1578.68	
11/21/19	402	38	1582.99	149	1582.59	19	1580.93	2.8	1578.81	57	1582.08	18	1584.62	170	1582.70	1.5	1578.67	
11/22/19	403	38	1583.04	150	1582.64	19	1580.98	2.8	1578.81	57	1582.08	18	1584.62	170	1582.75	1.5	1578.61	
11/23/19	403	38	1583.08	149	1582.68	20	1581.00	3.5	1578.81	56	1582.05	18	1584.61	169	1582.78	1.5	1578.72	
11/24/19	404	38	1583.11	148	1582.71	20	1581.02	2.8	1578.81	57	1582.19	18	1584.68	170	1582.81	1.5	1578.63	
11/25/19	405	39	1583.14	149	1582.74	19	1581.05	2.8	1578.81	57	1582.16	18	1584.71	169	1582.83	1.5	1578.68	
11/26/19	406	38	1583.18	148	1582.78	20	1581.07	3.5	1578.81	57	1582.25	18	1584.71	171	1582.87	1.5	1578.65	
11/27/19	406	39	1583.23	148	1582.82	19	1581.10	2.8	1578.81	57	1582.19	18	1584.73	176	1582.91	1.5	1578.64	
11/28/19	407	38	1583.26	146	1582.87	20	1581.14	3.5	1578.81	57	1582.32	18	1584.79	175	1582.95	1.5	1578.65	
11/29/19	407	38	1583.28	147	1582.89	20	1581.15	2.8	1578.81	57	1582.35	18	1584.79	176	1582.97	1.5	1578.74	
11/30/19	408	38	1583.34	147	1582.95	20	1581.19	3.5	1578.81	57	1582.43	19	1584.83	176	1583.03	1.5	1578.74	
Monthly Average	405	38	1583.03	149	1582.65	20	1580.97	3.0	1578.81	57	1582.15	18	1584.67	171	1582.75	1.5	1578.67	
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
Perchlorate	27	11/5/2019	13	11/5/2019	210	11/5/2019	140	11/5/2019	165	11/5/2019	110	11/5/2019	83	11/5/2019	61	11/5/2019		
Hexavalent Chromium	ND	11/5/2019	0.0057	11/5/2019	0.31	11/5/2019	0.15	11/5/2019	0.56	11/5/2019	0.53	11/5/2019	0.086	11/5/2019	0.043	11/5/2019		
Total Chromium	ND	11/5/2019	0.0059	11/5/2019	0.31	11/5/2019	0.14	11/5/2019	0.58	11/5/2019	0.49	11/5/2019	0.082	11/5/2019	0.043	11/5/2019		

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 11/04, 11/11 and 11/18, 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 11/05 for well ART-9; 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 11/01-11/30 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.

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 (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ⁵ (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ^{6,7} (gpm)	Water Elevation (ft amsl)	Flow ^{8,9} (gpm)	Water Elevation (ft amsl)	Flow ⁸ (gpm)	Water Elevation (ft amsl)	Flow ^{8,9} (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)
11/01/19	0.02	1726.36	0.88	1712.57	0.00	1720.75	0.00	1724.60	0.00	1738.79	0.32	1719.68	3.7	1716.58	1.1	1721.74	0.85	1720.41	4.4	1721.24
11/02/19	0.03	1726.21	0.88	1712.62	0.00	1720.75	0.00	1724.64	0.00	1738.79	0.29	1719.36	3.8	1712.98	1.0	1720.27	0.73	1720.45	4.5	1721.27
11/03/19	0.02	1726.24	0.91	1712.57	0.00	1720.74	0.00	1724.65	0.00	1738.77	0.32	1719.38	3.9	1713.22	1.1	1720.46	0.75	1720.58	4.6	1721.31
11/04/19 ³	0.03	1726.26	0.90	1712.70	0.00	1720.75	0.00	1724.62	0.00	1738.78	0.31	1719.81	3.8	1712.82	1.1	1720.84	0.74	1720.25	4.6	1721.29
11/05/19	0.03	1726.30	0.87	1712.82	0.00	1720.75	0.02	1725.24	0.04	1738.83	0.25	1719.66	3.4	1711.78	1.0	1721.36	1.0	1719.02	4.5	1721.25
11/06/19	0.01	1726.30	0.86	1714.40	0.00	1720.72	0.00	1725.22	0.00	1738.83	0.28	1719.35	3.6	1711.32	1.0	1720.60	1.0	1719.09	4.5	1721.21
11/07/19	0.00	1726.33	0.86	1713.37	0.00	1720.70	0.00	1725.11	0.00	1738.78	0.35	1719.28	3.5	1715.89	1.0	1721.67	1.0	1719.44	4.4	1721.26
11/08/19	0.01	1726.25	0.90	1712.51	0.27	< 1710.00	0.00	1725.07	0.00	1738.79	0.29	1719.15	3.3	1716.16	0.99	1722.24	0.83	1720.20	4.5	1720.83
11/09/19 ³	0.01	1726.27	0.84	1712.36	0.48	< 1710.00	0.00	1725.01	0.00	1738.79	0.27	1719.50	3.2	1715.25	1.0	1722.17	0.70	1720.77	4.4	1720.91
11/10/19	0.01	1726.30	0.87	1712.39	0.48	< 1710.00	0.00	1724.98	0.00	1738.78	0.23	1719.47	3.2	1715.63	1.2	1722.48	0.68	1720.80	4.5	1720.94
11/11/19 ²	0.01	1726.40	0.86	1712.36	0.48	< 1710.00	0.00	1724.95	0.00	1738.78	0.25	1719.91	3.2	1715.35	1.1	1722.27	0.66	1720.82	4.4	1720.95
11/12/19	0.02	1726.14	0.89	1712.40	0.14	1720.69	0.00	1724.92	0.00	1738.83	0.22	1719.98	3.1	1715.48	1.3	1722.28	0.66	1720.87	4.5	1720.99
11/13/19	0.04	1726.23	0.89	1712.44	0.00	1720.71	0.00	1724.89	0.00	1738.82	0.21	1719.96	3.1	1714.54	1.3	1721.27	0.65	1720.90	4.5	1721.00
11/14/19	0.02	1726.51	0.88	1712.52	0.00	1720.72	0.00	1724.84	0.00	1738.80	0.20	1720.02	3.1	1715.52	1.2	1720.03	0.65	1720.93	4.6	1721.02
11/15/19	0.00	1726.50	0.88	1712.55	0.00	1720.73	0.00	1724.83	0.00	1738.83	0.19	1719.93	3.0	1714.34	1.2	1719.70	0.65	1720.93	4.6	1721.04
11/16/19	0.00	1726.41	0.87	1712.58	0.00	1720.72	0.00	1724.80	0.00	1738.77	0.19	1719.93	3.0	1714.45	1.2	1720.62	0.65	1720.96	4.5	1721.05
11/17/19 ³	0.01	1726.38	0.87	1712.56	0.00	1720.75	0.00	1724.80	0.00	1738.81	0.15	1720.31	3.0	1715.82	1.3	1722.23	0.63	1721.06	4.4	1721.10
11/18/19 ²	0.01	1726.42	0.87	1712.67	0.00	1720.77	0.00	1724.82	0.00	1738.82	0.17	1720.19	3.0	1717.32	1.2	1722.48	0.64	1721.09	4.5	1721.13
11/19/19	0.01	1726.57	0.87	1712.72	0.00	1720.78	0.00	1724.84	0.00	1738.85	0.18	1720.22	3.0	1716.92	1.4	1722.12	0.64	1721.08	4.5	1721.16
11/20/19	0.00	1726.67	0.88	1712.67	0.00	1720.76	0.00	1724.70	0.00	1738.86	0.27	1720.18	3.0	1717.48	1.3	1722.38	0.64	1721.04	4.5	1721.13
11/21/19	0.01	1726.66	0.87	1712.69	0.00	1720.74	0.00	1724.62	0.00	1738.83	0.12	1719.61	3.0	1716.98	1.3	1720.63	0.64	1721.06	4.6	1721.15
11/22/19	0.01	1726.68	0.88	1712.72	0.00	1720.73	0.00	1724.61	0.00	1738.84	0.17	1719.95	2.9	1715.78	1.3	1722.66	0.64	1721.09	4.6	1721.18
11/23/19	0.01	1726.74	0.86	1712.81	0.00	1720.75	0.00	1724.60	0.00	1738.83	0.21	1720.16	2.9	1716.18	1.3	1721.86	0.64	1721.12	4.7	1721.20
11/24/19	0.00	1726.81	0.86	1712.88	0.00	1720.77	0.00	1724.63	0.00	1738.87	0.29	1720.26	2.9	1716.92	1.3	1722.13	0.64	1721.16	4.2	1721.24
11/25/19	0.00	1726.87	0.87	1712.90	0.00	1720.72	0.00	1724.62	0.00	1738.89	0.21	1717.89	2.9	1716.78	1.3	1721.53	0.64	1721.15	4.5	1721.24
11/26/19	0.00	1726.76	0.84	1713.21	0.00	1720.68	0.00	1724.62	0.00	1738.90	0.33	1718.20	3.8	1715.28	1.3	1721.94	0.89	1719.57	4.5	1721.17
11/27/19	0.02	1726.79	0.82	1713.63	0.00	1720.70	0.00	1724.63	0.00	1738.93	0.50	1709.58	3.8	1718.62	1.2	1721.87	0.90	1720.34	4.4	1721.15
11/28/19	0.02	1726.88	0.81	1713.68	0.00	1720.69	0.00	1724.61	0.00	1738.89	0.84	1709.66	3.5	1716.88	1.2	1721.58	0.82	1720.32	4.6	1721.14
11/29/19	0.03	1726.83	0.81	1713.62	0.00	1720.65	0.00	1724.51	0.00	1738.92	0.82	1709.65	3.5	1716.67	1.2	1721.23	0.82	1720.30	4.7	1721.06
11/30/19 ³	0.03	1726.71	0.78	1713.65	0.00	1720.63	0.00	1724.51	0.00	1738.87	0.80	1709.68	3.7	1717.38	1.1	1721.23	0.75	1720.56	4.5	1721.21
Monthly Average	0.01	1726.49	0.87	1712.85	0.06	1719.30	0.00	1724.78	0.00	1738.83	0.31	1718.33	3.3	1715.54	1.2	1721.53	0.74	1720.58	4.5	1721.13
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	530	11/8/2019	44	11/8/2019	94	11/8/2019	250	11/5/2019	140	11/5/2019	150	11/8/2019	440	11/8/2019	510	11/8/2019	370	11/8/2019	500	11/8/2019
Hexavalent Chromium	0.014	11/8/2019	0.056	11/8/2019	0.015	11/8/2019	2.3	11/5/2019	1.4	11/5/2019	0.049	11/8/2019	2.3	11/8/2019	3.9	11/8/2019	5.1	11/8/2019	11	11/8/2019
Total Chromium	2.3	11/8/2019	0.060	11/8/2019	0.018	11/8/2019	2.1	11/5/2019	1.2	11/5/2019	0.049	11/8/2019	2.5	11/8/2019	4.0	11/8/2019	5.1	11/8/2019	11	11/8/2019

- Notes:
- Flow reported as gpm is a daily average calculated from the totalizer reading.
 - 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 11/04, 11/11 and 11/18, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
 - 3: On 11/04, 11/09, 11/17, and 11/30, IWF offline briefly due to instrument error.
 - 4: I-AR flow fluctuating throughout month.
 - 5: From 11/08 to 11/12, I-AB left on due to instrument error.
 - 6: From 11/23 to 11/25, I-B offline intermittently due to instrument error.
 - 7: On 11/30, I-B, I-G, and I-W adjusted to meet flow target as directed by the Trust.
 - 8: On 11/04, I-C, I-D, I-E, I-L, I-M, I-N, I-O, I-P, I-U, and I-W adjusted to meet flow target as directed by the Trust.
 - 9: On 11/26, I-C, I-E, I-L, I-M, I-R, 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 ⁷ (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 ^{8,9} (gpm)	Water Elevation (ft amsl)	Flow ^{8,9} (gpm)	Water Elevation (ft amsl)	Flow ^{8,9} (gpm)	Water Elevation (ft amsl)	Flow ⁸ (gpm)	Water Elevation (ft amsl)	Flow ^{8,11,12,13} (gpm)	Water Elevation (ft amsl)
11/01/19	0.15	1719.43	1.6	1718.39	4.9	1722.20	6.5	1711.99	3.6	1709.14	0.60	1721.35	1.3	1722.57	2.9	1720.89	0.28	1721.76	1.7	1721.62
11/02/19	0.14	1719.68	1.6	1718.55	4.9	1722.23	6.6	1712.00	3.6	1709.14	0.52	1721.25	1.3	1722.58	2.7	1720.96	0.29	1721.83	1.5	1721.69
11/03/19	0.15	1719.38	1.6	1718.64	5.1	1722.25	6.8	1711.99	3.8	1709.20	0.59	1721.24	1.3	1722.59	2.6	1721.10	0.31	1721.86	1.6	1721.73
11/04/19 ²	0.15	1719.43	1.6	1718.73	5.0	1722.27	6.7	1712.00	3.7	1709.16	0.55	1721.18	1.3	1722.20	2.6	1720.85	0.30	1721.80	1.6	1721.72
11/05/19	0.15	1719.59	1.5	1718.78	4.9	1722.23	6.6	1712.00	3.7	1709.14	0.97	1719.93	1.8	1722.20	3.2	1720.74	0.45	1721.84	1.4	1721.81
11/06/19	0.15	1719.25	1.5	1718.80	4.9	1722.19	6.5	1712.00	3.7	1709.20	1.0	1719.69	1.8	1722.17	3.1	1720.71	0.43	1721.83	1.3	1721.82
11/07/19	0.15	1719.82	1.5	1718.97	4.9	1722.21	6.5	1711.99	3.6	1709.13	0.99	1720.73	1.8	1722.17	3.1	1720.80	0.43	1721.85	1.3	1721.95
11/08/19	0.15	1719.69	1.5	1718.51	4.9	1722.17	6.5	1712.00	3.6	1709.13	0.73	1720.73	1.7	1722.26	2.4	1721.14	0.41	1721.75	1.2	1721.62
11/09/19	0.15	1719.68	1.5	1718.58	4.9	1722.17	6.5	1712.00	3.6	1709.66	0.65	1721.25	1.6	1722.34	2.0	1721.36	0.44	1721.76	1.5	1721.74
11/10/19	0.15	1719.69	1.5	1718.59	4.9	1722.17	6.5	1712.00	3.6	1709.64	0.61	1721.19	1.6	1722.35	1.9	1721.38	0.45	1721.77	1.4	1721.74
11/11/19 ²	0.15	1719.44	1.5	1718.52	4.9	1722.15	6.5	1712.00	3.6	1709.42	0.63	1721.16	1.6	1722.33	1.9	1721.38	0.45	1721.75	1.5	1721.69
11/12/19	0.16	1719.63	1.6	1718.63	4.9	1722.16	6.5	1712.00	3.6	1709.14	0.65	1721.18	1.6	1722.37	1.9	1721.43	0.44	1721.80	1.3	1722.15
11/13/19	0.16	1719.86	1.5	1718.32	4.9	1722.09	6.5	1712.00	3.6	1709.37	0.66	1721.24	1.6	1722.39	1.9	1721.44	0.44	1721.51	3.6	1709.78
11/14/19	0.16	1719.63	1.5	1717.55	4.9	1722.05	6.5	1712.00	3.6	1710.08	0.67	1721.43	1.6	1722.41	1.9	1721.47	0.44	1721.56	3.3	1721.47
11/15/19	0.16	1719.51	1.6	1717.97	4.9	1722.08	6.4	1712.00	3.6	1709.20	0.69	1721.44	1.6	1722.44	1.9	1721.49	0.44	1721.64	1.5	1721.65
11/16/19	0.17	1719.56	1.6	1718.22	4.9	1722.11	6.4	1712.00	3.6	1709.83	0.74	1721.36	1.6	1722.45	1.9	1721.50	0.44	1721.70	1.2	1721.78
11/17/19	0.13	1720.96	1.6	1718.37	4.9	1722.14	6.4	1712.00	3.6	1710.06	0.67	1721.48	1.6	1722.49	1.8	1721.60	0.44	1721.71	1.5	1721.61
11/18/19 ²	0.15	1721.06	1.6	1718.42	4.9	1722.16	6.4	1712.01	3.6	1709.12	0.70	1721.34	1.6	1722.50	1.8	1721.62	0.44	1721.73	1.4	1721.65
11/19/19	0.10	1721.09	1.6	1718.55	4.9	1722.19	6.5	1712.01	3.7	1709.16	0.63	1721.34	1.5	1722.56	1.7	1721.66	0.49	1721.74	1.7	1721.74
11/20/19	0.10	1721.09	1.6	1718.51	4.9	1722.16	6.5	1712.00	3.7	1709.12	0.65	1721.33	1.5	1722.55	1.7	1721.63	0.55	1721.74	1.6	1721.73
11/21/19	0.10	1721.10	1.6	1718.44	4.9	1722.13	6.5	1712.00	3.6	1710.00	0.66	1721.36	1.5	1722.56	1.8	1721.64	0.52	1721.71	1.6	1721.71
11/22/19	0.09	1721.29	1.6	1718.48	4.9	1722.14	6.4	1712.00	3.6	1710.07	0.69	1721.37	1.5	1722.58	1.8	1721.66	0.51	1721.72	1.6	1721.73
11/23/19	0.09	1721.34	1.6	1718.55	4.9	1722.16	6.5	1712.00	3.6	1709.54	0.71	1721.31	1.5	1722.61	1.8	1721.68	0.51	1721.74	1.5	1721.77
11/24/19	0.08	1721.32	1.6	1718.66	4.9	1722.20	6.5	1712.00	3.6	1709.65	0.74	1721.19	1.5	1722.65	1.8	1721.71	0.50	1721.79	1.5	1721.83
11/25/19	0.09	1721.34	1.6	1718.74	4.9	1722.21	6.6	1711.99	3.7	1709.87	0.78	1721.22	1.5	1722.64	1.8	1721.72	0.51	1721.80	1.4	1721.86
11/26/19	0.09	1721.48	1.6	1718.91	4.9	1722.23	6.6	1712.00	3.7	1709.98	1.2	1718.10	1.9	1722.27	3.0	1721.00	0.53	1721.84	1.4	1721.92
11/27/19	0.10	1720.98	1.5	1718.74	4.9	1722.22	6.5	1712.00	3.7	1709.17	1.3	1719.21	1.9	1722.39	3.4	1721.02	0.57	1721.71	2.2	1720.58
11/28/19	0.13	1721.04	1.5	1718.32	4.9	1722.17	6.6	1712.00	3.7	1709.15	1.2	1719.08	1.8	1722.44	3.3	1721.01	0.53	1721.60	3.9	1720.32
11/29/19	0.13	1721.06	1.5	1717.91	4.9	1722.07	6.6	1712.00	3.7	1709.42	1.2	1718.66	1.8	1722.39	3.3	1720.93	0.53	1721.50	3.8	1720.07
11/30/19	0.08	1721.43	1.5	1717.86	4.8	1722.12	6.4	1712.00	3.6	1709.25	1.3	1715.38	1.5	1722.56	2.7	1721.47	0.45	1721.60	3.3	1720.86
Monthly Average	0.13	1720.33	1.6	1718.47	4.9	1722.17	6.5	1712.00	3.7	1709.44	0.79	1720.62	1.6	1722.43	2.3	1721.30	0.45	1721.73	1.8	1721.18
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	Conc (mg/L)	Date
Perchlorate	1,200	11/8/2019	940	11/8/2019	670	11/5/2019	270	11/5/2019	250	11/5/2019	270	11/8/2019	430	11/8/2019	360	11/8/2019	740	11/8/2019	830	11/8/2019
Hexavalent Chromium	15	11/8/2019	14	11/8/2019	8.7	11/5/2019	4.0	11/5/2019	2.3	11/5/2019	0.62	11/8/2019	4.8	11/8/2019	4.4	11/8/2019	14	11/8/2019	14	11/8/2019
Total Chromium	15	11/8/2019	14	11/8/2019	8.2	11/5/2019	3.7	11/5/2019	2.2	11/5/2019	0.59	11/8/2019	5.0	11/8/2019	4.8	11/8/2019	14	11/8/2019	14	11/8/2019

- Notes:
- Flow reported as gpm is a daily average calculated from the totalizer reading.
 - 1: Analytical results are reported from TestAmerica.
 - 2: On 11/04, 11/11 and 11/18, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
 - 3: On 11/04, 11/09, 11/17, and 11/30, IWF offline briefly due to instrument error.
 - 7: On 11/30, I-B, I-G, and I-W adjusted to meet flow target as directed by the Trust.
 - 8: On 11/04, I-C, I-D, I-E, I-L, I-M, I-N, I-O, I-P, I-U, and I-W adjusted to meet flow target as directed by the Trust.
 - 9: On 11/26, I-C, I-E, I-L, I-M, I-N, I-R, and I-Y adjusted to meet flow target as directed by the Trust.
 - 10: Duplicates taken on 11/08 for well I-M; average of both values is presented and used for calculations.
 - 11: On 11/08, I-P, I-Q, and I-W adjusted to meet flow target as directed by the Trust.
 - 12: From 11/12 to 11/13, I-P offline intermittently due to maintenance.
 - 13: On 11/14, I-P 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 ^{11,14} (gpm)	Water Elevation (ft amsl)	Flow ⁹ (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ⁸ (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ^{7,8,11,15} (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ⁹ (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation ¹⁶ (ft amsl)
11/01/19	0.18	1720.70	1.0	1717.88	4.3	1706.00	0.60	1707.87	0.65	1713.99	4.3	1720.22	0.48	1719.42	3.4	1717.99	1.3	1722.12	7.0	< 1707.89
11/02/19	0.22	1720.14	1.1	1717.79	4.4	1705.99	0.59	1707.87	0.64	1714.12	4.4	1720.27	0.21	1716.72	3.4	1718.00	1.2	1712.51	7.0	< 1707.89
11/03/19	0.19	1720.34	1.1	1717.69	4.6	1705.99	0.63	1707.87	0.65	1714.52	4.6	1720.30	0.22	1718.73	3.6	1718.05	1.3	1717.85	7.3	< 1707.89
11/04/19 ²	0.21	1720.35	1.1	1718.20	4.5	1706.00	0.61	1707.88	0.65	1710.70	4.5	1720.33	0.22	1714.12	3.5	1718.05	1.3	1715.45	7.2	< 1707.89
11/05/19	0.20	1719.90	0.94	1718.39	4.4	1705.99	0.60	1707.88	0.79	1711.97	4.3	1720.32	0.48	1714.90	3.4	1718.01	1.1	1715.52	7.6	< 1707.89
11/06/19	0.25	1720.05	0.94	1718.15	4.3	1705.99	0.60	1707.88	0.76	1712.10	4.4	1720.28	0.40	1714.18	3.5	1717.95	1.1	1715.37	8.2	< 1707.89
11/07/19	0.24	1720.50	0.99	1718.33	4.2	1705.99	0.60	1708.89	0.75	1713.37	4.3	1720.32	0.40	1719.99	3.4	1718.00	1.1	1716.56	8.2	< 1707.89
11/08/19	0.18	1720.04	0.95	1718.13	4.3	1706.03	0.60	1707.87	0.70	1712.95	4.3	1720.23	0.74	1709.63	3.4	1718.09	1.1	1716.28	8.1	< 1707.89
11/09/19	0.21	1720.46	0.99	1718.11	4.4	1706.05	0.60	1707.88	0.70	1712.94	4.3	1720.25	0.76	1711.83	3.4	1718.19	1.0	1716.22	8.1	< 1707.89
11/10/19	0.16	1720.47	1.0	1718.05	4.5	1706.05	0.60	1707.88	0.70	1712.96	4.5	1720.23	0.72	1718.69	3.4	1718.20	1.0	1717.55	8.4	< 1707.89
11/11/19 ²	0.18	1720.35	1.0	1718.06	4.4	1706.05	0.60	1707.86	0.70	1712.94	4.4	1720.20	0.74	1717.48	3.4	1718.20	1.0	1717.15	8.3	< 1707.89
11/12/19	0.19	1720.45	1.0	1718.16	4.5	1706.04	0.56	1710.02	0.71	1712.89	4.4	1720.22	0.72	1718.92	3.4	1718.24	1.0	1717.43	8.2	< 1707.89
11/13/19	0.17	1720.48	1.0	1718.08	4.5	1706.06	0.57	1710.14	0.73	1712.76	4.4	1720.04	0.72	1716.12	3.5	1718.24	1.0	1715.33	8.2	< 1707.89
11/14/19	0.16	1720.55	1.0	1718.07	4.5	1706.05	0.58	1708.92	0.72	1712.66	4.3	1719.99	0.71	1714.60	3.4	1718.26	1.0	1715.66	8.2	< 1707.89
11/15/19	0.16	1720.58	1.1	1718.10	4.6	1706.05	0.60	1708.63	0.72	1712.74	4.3	1720.06	0.71	1716.31	3.4	1718.27	1.0	1716.50	8.2	< 1707.89
11/16/19	0.16	1720.60	1.0	1718.13	4.5	1706.05	0.59	1708.90	0.70	1712.89	4.4	1720.12	0.72	1712.90	3.4	1718.29	1.0	1716.13	8.2	< 1707.89
11/17/19	0.21	1720.13	0.95	1718.79	4.6	1706.06	0.57	1710.32	0.70	1713.10	4.4	1720.18	0.65	1719.21	3.4	1718.38	1.0	1717.99	8.2	< 1707.89
11/18/19 ²	0.18	1720.26	0.99	1718.64	4.6	1706.06	0.58	1709.91	0.70	1713.15	4.4	1720.20	0.69	1719.41	3.4	1718.39	1.0	1718.04	8.2	< 1707.89
11/19/19	0.24	1720.32	0.92	1718.59	4.7	1706.06	0.58	1710.12	0.70	1713.19	4.4	1720.24	0.67	1719.17	3.5	1718.41	1.0	1717.67	8.2	< 1707.89
11/20/19	0.23	1720.40	0.91	1718.59	4.7	1706.06	0.57	1710.26	0.70	1713.01	4.4	1720.20	0.66	1718.85	3.5	1718.38	1.0	1717.61	8.2	< 1707.89
11/21/19	0.21	1720.42	0.92	1718.56	4.7	1706.06	0.57	1710.11	0.70	1713.23	4.3	1720.16	0.66	1715.72	3.5	1718.39	1.1	1717.12	8.2	< 1707.89
11/22/19	0.22	1720.31	0.91	1718.63	4.7	1706.06	0.57	1710.21	0.70	1713.30	4.3	1720.17	0.67	1719.17	3.5	1718.41	1.1	1715.85	8.2	< 1707.89
11/23/19	0.25	1720.33	0.91	1718.70	4.7	1706.06	0.58	1710.18	0.70	1713.38	4.4	1720.20	0.67	1717.08	3.5	1718.43	1.1	1715.17	8.2	< 1707.89
11/24/19	0.26	1720.26	0.88	1718.71	4.7	1706.06	0.56	1710.92	0.70	1713.43	4.5	1720.26	0.66	1717.62	3.5	1718.47	1.1	1716.45	8.0	< 1707.89
11/25/19	0.27	1720.29	0.88	1718.89	4.7	1706.06	0.57	1710.02	0.66	1714.04	4.5	1720.28	0.65	1718.68	3.5	1718.49	1.1	1716.35	8.2	< 1707.89
11/26/19	0.26	1720.34	0.94	1718.51	4.6	1706.06	0.59	1709.69	0.65	1714.27	4.5	1720.32	0.66	1718.22	3.5	1718.36	1.3	1717.47	8.2	< 1707.89
11/27/19	0.27	1720.03	0.56	1720.18	4.4	1706.05	0.58	1710.13	0.62	1714.66	4.4	1720.29	0.59	1717.93	3.5	1718.36	1.4	1717.15	8.3	< 1707.89
11/28/19	0.30	1720.17	0.26	1720.09	4.7	1706.05	0.59	1709.92	0.64	1714.56	4.4	1720.18	0.56	1718.55	3.5	1718.33	1.4	1717.52	8.4	< 1707.89
11/29/19	0.27	1720.19	0.25	1720.22	4.6	1706.05	0.59	1709.62	0.64	1714.26	4.2	1720.02	0.59	1718.91	3.5	1718.25	1.4	1718.66	8.4	< 1707.89
11/30/19	0.26	1720.74	0.49	1719.54	4.5	1706.06	0.57	1709.94	0.63	1714.38	4.1	1720.11	0.38	1718.48	3.3	1718.54	1.3	1717.49	8.2	< 1707.89
Monthly Average	0.22	1720.34	0.91	1718.53	4.5	1706.04	0.59	1709.19	0.69	1713.28	4.4	1720.21	0.59	1717.05	3.4	1718.25	1.1	1716.80	8.1	< 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	770	11/8/2019	640	11/8/2019	310	11/8/2019	1,300	11/8/2019	1,300	11/8/2019	770	11/5/2019	750	11/8/2019	570	11/8/2019	530	11/8/2019	310	11/5/2019
Hexavalent Chromium	15	11/8/2019	0.29	11/8/2019	0.81	11/8/2019	16	11/8/2019	16	11/8/2019	12	11/5/2019	13	11/8/2019	6.3	11/8/2019	0.49	11/8/2019	7.5	11/5/2019
Total Chromium	14	11/8/2019	0.29	11/8/2019	0.83	11/8/2019	16	11/8/2019	16	11/8/2019	11	11/5/2019	14	11/8/2019	6.4	11/8/2019	0.50	11/8/2019	7.0	11/5/2019

Notes:
 Flow reported as gpm is a daily average calculated from the totalizer reading.
 1: Analytical results are reported from TestAmerica.
 2: On 11/04, 11/11 and 11/18, the IWF totalizers were reset. Instantaneous flow rate at the time of the water level measurement was used for these dates.
 3: On 11/04, 11/09, 11/17, and 11/30, IWF offline briefly due to instrument error.
 7: On 11/30, I-B, I-G, and I-W adjusted to meet flow target as directed by the Trust.
 8: On 11/04, I-C, I-D, I-E, I-L, I-M, I-N, I-O, I-P, I-U, and I-W adjusted to meet flow target as directed by the Trust.
 9: On 11/26, I-C, I-E, I-L, I-M, I-N, I-R, and I-Y adjusted to meet flow target as directed by the Trust.
 11: On 11/08, I-P, I-Q, and I-W adjusted to meet flow target as directed by the Trust.
 14: On 11/01 and 11/03, I-Q adjusted to meet flow target as directed by the Trust.
 15: On 11/07, I-W offline briefly due to instrument error.
 16: 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)
11/01/19	954	62				0.00				1,016		215				
11/02/19	952	61				0.00				1,013	240	220				
11/03/19	991	64				0.00				1,056		220				
11/04/19 ³	972	61				0.00				1,033		231				
11/05/19	950	62				0.00				1,013		259	10	ND	0.00042	J
11/06/19	951	62	0.11	ND	600	0.00				1,013		233				
11/07/19	958	63				0.00				1,021		215				
11/08/19	949	63				0.00				1,012		246				
11/09/19	949	61				0.00				1,011	260	224				
11/10/19	949	63				0.00				1,011		246				
11/11/19 ³	949	62				0.00				1,011		210				
11/12/19	951	61				0.00				1,050		191	130	9.4	0.0086	0.0072
11/13/19	948	62	0.15	ND	620	0.00				1,029		220				
11/14/19	955	63				4.9	0.070	0.0023	53	1,025		215				
11/15/19	949	62				0.00				1,011		251				
11/16/19	947	62				0.00				1,009		230				
11/17/19	949	62				0.00				1,010	260	240				
11/18/19 ³	948	63				0.00				1,011		214				
11/19/19	916	63				58				989		249	9.3	ND	0.00045	J
11/20/19	953	62	0.20	ND	450	0.00				1,015		243				
11/21/19	960	62				0.00				1,023		299				
11/22/19	951	62				0.00				1,013		185				
11/23/19	952	62				0.00				1,014	270	222				
11/24/19	957	63				0.00				1,020		228				
11/25/19	959	62	0.17	ND	460	0.00				1,021		215				
11/26/19	954	63				0.00				1,017		220	9.3	ND	ND	
11/27/19	966	62				0.00				1,028		211				
11/28/19	956	64				0.00				1,020		218				
11/29/19	956	62				0.00				1,019		212				
11/30/19	970	62				0.00				1,032	250	220				
Monthly Average ²	954	62	0.15	ND	537	2.1	0.070	0.002	53	1,019	258	227	130	9.5	0.002	0.002

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.
 3: On 11/04, 11/11 and 11/18, 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 11/01 to 11/30 due to FBR plant influent strainers clogging, except for monthly sampling and maintenance.
 5: From 11/01 to 11/30, 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)
11/01/19	1,069	6.3	-351	955	6.3	-361	1,016		ND					13
11/02/19	1,084	6.4	-353	848	6.5	-375	1,007	ND	ND					17
11/03/19	1,070	6.4	-338	952	6.5	-378	1,101		ND					17
11/04/19	998	6.3	-345	1,002	6.6	-379	1,023		ND	ND				14
11/05/19	1,083	6.3	-353	631	6.8	-381	1,000		ND		0.0033 _J	ND	ND	16
11/06/19	1,097	6.3	-344	928	6.8	-381	1,046		ND					14
11/07/19	1,102	6.3	-339	865	6.8	-366	1,079		ND					24
11/08/19	1,138	6.3	-340	1,137	6.9	-377	1,047		ND					28
11/09/19	1,027	6.3	-338	954	6.8	-378	1,004	ND	ND					23
11/10/19	1,010	6.3	-332	704	6.8	-381	999		ND					33
11/11/19	1,236	6.4	-359	1,052	7.1	-382	989		ND		ND	ND	ND	33
11/12/19	1,104	6.3	-341	1,026	6.8	-383	1,111		ND					30
11/13/19	1,131	6.2	-311	1,122	5.8	-370	842		ND					46
11/14/19	1,012	6.3	-352	914	6.0	-380	1,066		ND					46
11/15/19	1,062	6.3	-337	931	5.9	-380	1,033		ND					24
11/16/19	1,016	6.3	-340	896	5.9	-383	1,028	ND	ND					39
11/17/19	1,095	6.2	-327	1,116	5.9	-380	1,020		ND					18
11/18/19	1,077	6.2	-324	772	5.9	-379	1,063		ND		ND	ND	ND	22
11/19/19	1,053	6.2	-319	972	6.3	-378	918		ND					33
11/20/19	1,056	8.2	-303	1,031	6.3	-381	1,050		ND					35
11/21/19	1,055	6.4	-315	954	6.3	-385	1,034		ND					20
11/22/19	1,065	6.3	-304	1,024	6.4	-380	1,045		ND					28
11/23/19	1,021	6.3	-309	996	6.2	-382	1,028		ND					45
11/24/19	1,038	6.3	-317	1,020	6.3	-385	1,006		ND					42
11/25/19	1,020	6.3	-321	1,034	6.3	-384	993		ND		ND	ND	ND	42
11/26/19	1,062	6.3	-325	1,018	6.3	-383	1,009		ND					54
11/27/19	1,053	6.2	-329	1,085	6.3	-370	1,046		ND					39
11/28/19	1,049	6.3	-359	978	6.4	-373	1,031		ND					35
11/29/19	1,060	6.3	-360	867	6.5	-377	1,069		ND					63
11/30/19	1,063	6.3	-376	1,025	6.2	-380	1,037	ND	ND					36
Monthly Average ²	1,067	6.4	-336	960	6.4	-378	1,025	ND	ND	ND	0.0008	ND	ND	31

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)		
11/15/19	28.6	38.5		
11/30/19	27.3	40.1		

GW-11 Leak Detection Monitoring				
Date	Amount Pumped ² (gallons)			
	NW Corner	NE Corner	SW Corner	SE Corner
11/13/19	0	2	213	0
11/27/19	0	13	293.24	0

GW-11 Composite Sample ³		
Analytes	Concentration	Units
Perchlorate	11	mg/L
Chlorate	21	mg/L
Ammonia as N	0.32	mg/L
Total Phosphorus	0.11	mg/L
Total Dissolved Solids (TDS)	12,000	mg/L
Total Suspended Solids (TSS)	91	mg/L
pH	8.7 HF	s.u.
Calcium	520	mg/L
Iron	0.58	mg/L
Chromium (total)	0.023	mg/L
Chromium VI	ND	mg/L
Chloride	3,800	mg/L
Nitrate as N	ND	mg/L
Sulfate	3,200	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: November 5, 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)		
Dec 2018	1,046	262	10	140	1,009	811
Jan 2019	1,067	247	10	140	991	861
Feb 2019	1,070	264	9	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	6.5	120	620	791
July 2019	1,007	102	10	140	621	729
Aug 2019	1,005	123	10	140	664	674
Sep 2019	1,015	123	11	130	662	629
Oct 2019	1,012	217	10	130	852	683
Nov 2019	1,019	258	9.5	130	942	727

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.

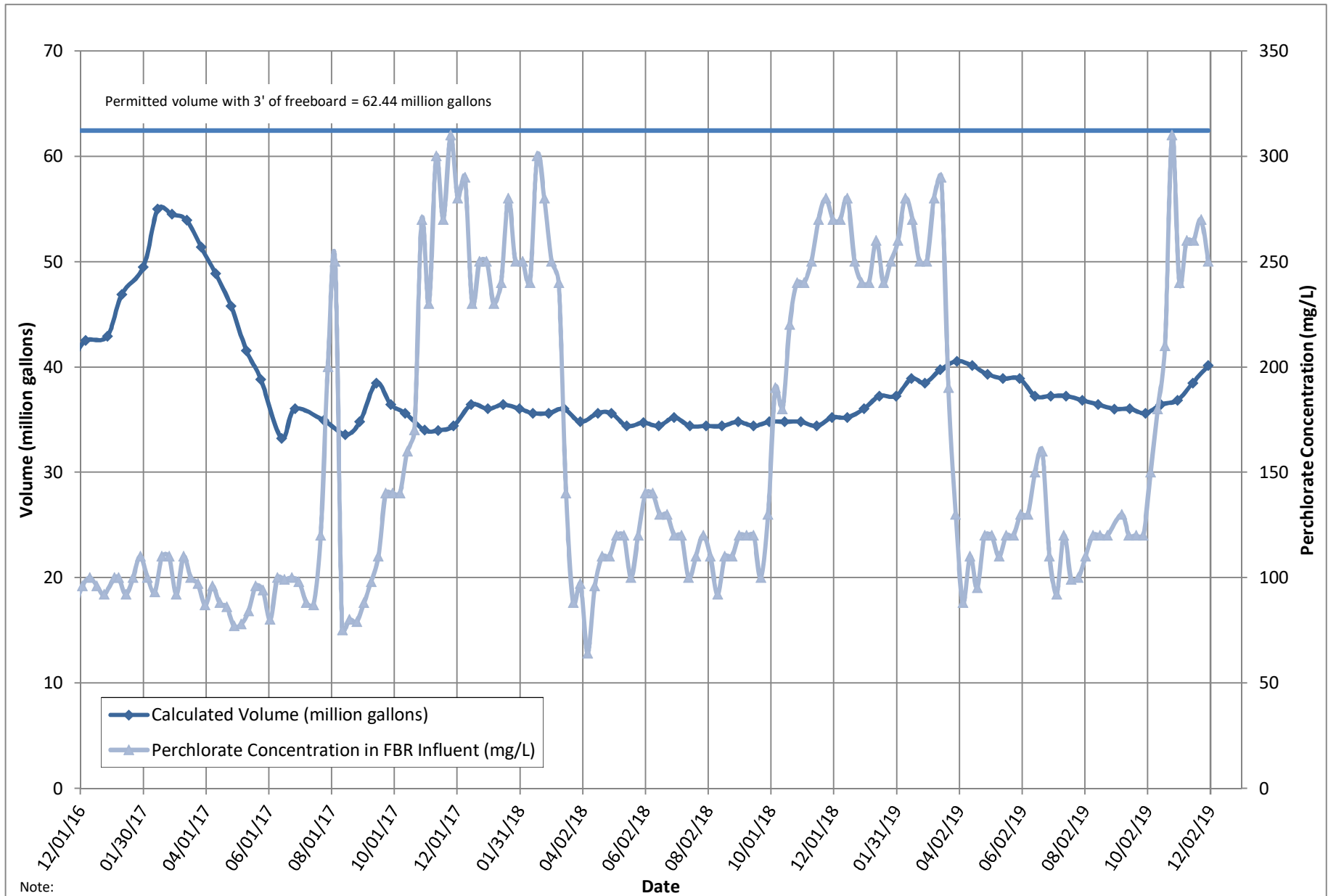
2: Treatment of AP-5 wash water began on July 17, 2017 and was suspended on August 4, 2017 to allow Envirogen to evaluate internal process controls to meet discharge limits. Treatment of AP-5 wash water resumed on August 31, 2017. The AP-5 wash water feed rate was decreased in March 2019 to prepare for 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 (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)
11/01/19	2.7	1713.26	1.1	1714.11	0.87	1713.37	1.0	1716.97	1.4	1717.47	1.3	1716.95	1.3	1717.61	0.59	1715.06
11/02/19	2.9	1712.37	1.1	1712.66	0.92	1712.67	1.1	1716.14	1.5	1716.37	1.4	1717.20	1.4	1718.05	0.63	1715.57
11/03/19	2.6	1712.63	0.99	1712.90	0.85	1712.45	1.0	1714.51	1.4	1715.27	1.3	1716.88	1.3	1716.29	0.58	1715.77
11/04/19	2.7	1713.68	1.1	1713.44	0.86	1712.67	1.2	1718.32	1.4	1717.51	1.4	1720.85	1.9	1720.26	0.58	1716.91
11/05/19	2.7	1712.32	1.1	1712.15	0.85	1709.95	1.2	1717.21	1.4	1716.41	1.3	1718.38	1.9	1719.00	0.57	1715.47
11/06/19	2.7	1712.32	1.1	1712.54	0.86	1713.84	1.2	1709.11	1.2	1712.91	1.3	1718.49	1.8	1711.56	0.57	1713.17
11/07/19	2.6	1710.33	1.1	1709.80	0.84	1708.55	1.2	1710.19	1.7	1714.46	1.3	1717.73	1.7	1713.22	1.0	1710.89
11/08/19	2.7	1710.45	1.0	1707.92	0.85	1708.91	1.2	1710.43	1.4	1714.21	1.3	1717.14	1.8	1713.40	0.35	1711.25
11/09/19	2.7	1709.91	1.1	1709.28	0.84	1709.72	1.2	1712.72	1.6	1717.97	1.3	1718.61	1.7	1714.90	0.57	1710.10
11/10/19	2.7	1709.45	1.0	1709.80	0.84	1709.77	1.1	1709.87	1.6	1715.72	1.3	1727.77	1.7	1713.79	0.57	1709.97
11/11/19	2.7	1711.58	1.1	1711.76	0.85	1712.39	0.88	1713.64	1.5	1715.91	1.1	1719.45	1.3	1714.90	0.42	1710.20
11/12/19	2.7	1712.75	1.0	1711.69	0.85	1711.47	0.92	1718.93	1.5	1717.60	1.1	1722.65	1.4	1719.60	0.24	1717.66
11/13/19	2.7	1703.56	0.95	1707.57	0.85	1707.51	0.92	1714.95	1.5	1713.96	1.0	1718.56	1.4	1716.05	0.33	1724.54
11/14/19	2.7	1708.51	1.0	1714.39	0.85	1710.21	0.92	1714.05	1.5	1716.59	1.0	1720.75	1.4	1716.18	0.50	1717.25
11/15/19	2.7	1706.04	1.0	1711.30	0.87	1709.01	0.92	1714.60	1.5	1714.44	0.97	1716.94	1.4	1714.76	0.58	1708.30
11/16/19	2.5	1710.32	0.93	1710.15	0.85	1707.00	0.91	1714.53	1.5	1715.03	0.94	1719.17	1.4	1717.28	0.57	1709.91
11/17/19	2.8	1710.78	0.92	1709.54	0.87	1709.91	0.91	1714.72	1.5	1716.04	0.94	1718.13	1.4	1716.45	0.57	1711.68
11/18/19	2.7	1710.83	1.0	1714.74	0.86	1710.93	0.93	1718.54	1.6	1717.64	1.1	1722.93	1.4	1718.87	0.56	1709.40
11/19/19	2.7	1711.52	0.97	1713.64	0.84	1711.51	1.0	1717.63	1.5	1716.60	1.1	1721.87	1.5	1718.38	0.44	1710.05
11/20/19	2.7	1710.34	0.93	1715.78	0.87	1712.37	1.0	1707.69	1.5	1717.74	0.89	1722.16	1.4	1718.28	0.38	1718.80
11/21/19	2.7	1713.57	0.90	1710.95	0.89	1712.46	1.0	1715.07	1.5	1717.52	0.87	1719.90	1.5	1717.59	0.38	1718.00
11/22/19	2.7	1712.35	0.89	1714.81	0.89	1711.18	1.0	1715.97	1.4	1717.62	0.82	1721.20	1.4	1718.16	0.38	1715.81
11/23/19	2.7	1707.91	0.91	1714.26	0.89	1710.82	1.0	1714.04	1.4	1716.27	1.5	1723.23	1.4	1718.01	0.28	1719.52
11/24/19	2.8	1709.33	0.84	1714.71	0.93	1711.37	1.1	1711.17	1.5	1716.92	1.5	1721.84	1.4	1718.11	0.38	1718.40
11/25/19	2.6	1709.53	0.78	1714.25	0.87	1710.97	1.0	1711.47	1.4	1716.42	1.4	1722.50	1.3	1718.26	0.26	1718.12
11/26/19	2.7	1711.93	0.74	1713.71	0.87	1711.40	1.0	1717.77	1.3	1717.29	1.9	1719.80	1.7	1719.01	0.55	1721.72
11/27/19	2.0	1710.23	0.85	1717.31	0.71	1713.70	0.75	1716.67	0.89	1717.37	1.2	1714.95	1.2	1716.28	0.37	1713.81
11/28/19	2.8	1713.48	1.1	1717.64	0.93	1710.57	0.97	1716.07	1.2	1716.82	1.4	1715.10	1.6	1716.59	0.37	1713.57
11/29/19	2.8	1710.68	1.1	1714.36	0.92	1713.70	0.97	1716.50	1.2	1717.47	1.4	1715.10	1.6	1716.25	0.37	1714.37
11/30/19	2.8	1711.58	1.1	1713.31	0.91	1713.97	1.0	1716.07	1.3	1716.47	1.5	1717.25	1.7	1718.46	0.37	1715.97
Monthly Average	2.7	1710.79	1.0	1712.68	0.86	1711.15	1.0	1714.52	1.4	1716.34	1.2	1719.45	1.5	1716.85	0.48	1714.70
Analytical	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	Conc ⁴ (mg/L)	Date
Perchlorate	490	11/11/2019	1,350	11/11/2019	630	11/11/2019	110	11/11/2019	300	11/11/2019	540	11/11/2019	880	11/11/2019	1,400	11/11/2019
Hexavalent Chromium	0.041	11/11/2019	0.24	11/11/2019	0.40	11/11/2019	0.029	11/11/2019	0.025	11/11/2019	0.024	11/11/2019	0.043	11/11/2019	0.12	11/11/2019
Total Chromium	0.042	11/11/2019	0.23	11/11/2019	0.38	11/11/2019	0.032	11/11/2019	0.030	11/11/2019	0.028	11/11/2019	0.048	11/11/2019	0.27	11/11/2019

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: Duplicates taken on 11/11 for well E1-2; 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, 2019 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

