

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 ^{3,4} (gpm)	Water Elevation (ft amsl)	Flow ^{3,4} (gpm)	Water Elevation (ft amsl)	Flow ^{3,4} (gpm)	Water Elevation (ft amsl)	Flow ³ (gpm)	Water Elevation (ft amsl)	Flow ^{4,6,7} (gpm)	Water Elevation (ft amsl)	Flow ^{3,7,8,9} (gpm)	Water Elevation (ft amsl)	Flow ⁴ (gpm)	Water Elevation (ft amsl)	Flow (gpm)	Water Elevation (ft amsl)	Flow ^{3,4,10} (gpm)	Water Elevation ² (ft amsl)					
02/01/22	500	161	1540.99	102	1541.09	134	1547.08	107	1537.50	70	1550.82	104	1553.14	51	1554.24	21	1555.00	11	< 1520.00					
02/02/22	498	161	1541.04	102	1541.07	134	1547.13	107	1537.54	70	1550.87	104	1553.19	51	1554.28	21	1555.00	11	< 1520.00					
02/03/22	490	161	1541.10	102	1541.05	134	1547.19	107	1537.59	70	1550.92	104	1553.26	51	1554.35	21	1555.00	11	< 1520.00					
02/04/22	513	161	1541.16	102	1541.03	134	1547.26	107	1537.65	70	1550.98	104	1553.33	51	1554.42	21	1555.00	11	< 1520.00					
02/05/22	552	161	1541.24	102	1540.99	134	1547.36	107	1537.73	70	1551.07	104	1553.43	51	1554.52	21	1555.00	11	< 1520.00					
02/06/22	559	161	1541.27	102	1540.96	134	1547.40	107	1537.76	70	1551.11	104	1553.47	52	1554.56	21	1555.00	11	< 1520.00					
02/07/22	516	161	1541.32	103	1540.93	134	1547.46	107	1537.82	70	1551.16	104	1553.53	52	1554.62	21	1555.00	11	< 1520.00					
02/08/22	540	161	1541.28	103	1540.87	134	1547.35	107	1537.79	91	1550.45	111	1553.21	81	1553.55	27	1554.93	11	< 1520.00					
02/09/22	595	151	1541.79	94	1542.74	123	1547.50	107	1537.71	122	1549.35	119	1552.71	116	1552.13	35	1554.79	11	< 1520.00					
02/10/22	576	133	1543.31	76	1546.90	104	1548.51	108	1537.98	117	1549.76	118	1553.00	98	1552.94	35	1554.93	11	< 1520.00					
02/11/22	587	121	1544.41	61	1550.00	91	1549.26	108	1538.27	100	1550.45	120	1553.21	104	1552.90	35	1555.00	11	< 1520.00					
02/12/22	587	121	1544.46	61	1550.00	91	1549.25	108	1538.29	100	1550.42	120	1553.15	119	1552.38	35	1555.00	11	< 1520.00					
02/13/22	587	121	1544.50	61	1550.00	91	1549.30	108	1538.34	100	1550.46	120	1553.19	119	1552.42	35	1555.00	11	< 1520.00					
02/14/22	589	121	1544.55	61	1550.00	91	1549.36	108	1538.39	100	1550.50	120	1553.25	119	1552.48	35	1555.00	11	< 1520.00					
02/15/22	553	113	1545.07	58	1550.00	85	1549.75	101	1539.24	94	1550.93	113	1553.56	84	1553.27	26	1555.00	10	< 1520.00					
02/16/22	586	121	1544.71	62	1550.00	91	1549.37	108	1538.45	100	1550.53	120	1553.21	119	1552.48	35	1555.00	11	< 1520.00					
02/17/22	590	121	1544.68	62	1550.00	91	1549.31	108	1538.39	100	1550.47	120	1553.15	119	1552.41	35	1555.00	11	< 1520.00					
02/18/22	590	121	1544.70	62	1550.00	91	1549.33	108	1538.41	100	1550.49	120	1553.17	119	1552.43	35	1555.00	11	< 1520.00					
02/19/22	589	121	1544.71	62	1550.00	91	1549.35	108	1538.42	100	1550.50	120	1553.19	119	1552.45	35	1555.00	11	< 1520.00					
02/20/22	589	120	1544.72	62	1550.00	91	1549.36	108	1538.44	100	1550.51	120	1553.20	119	1552.46	35	1555.00	11	< 1520.00					
02/21/22	590	120	1544.69	62	1550.00	91	1549.34	108	1538.42	100	1550.48	120	1553.17	119	1552.42	35	1554.99	11	< 1520.00					
02/22/22	589	120	1544.63	62	1550.00	91	1549.26	108	1538.36	100	1550.41	120	1553.09	119	1552.33	35	1554.96	11	< 1520.00					
02/23/22	592	120	1544.59	62	1550.00	90	1549.20	107	1538.31	100	1550.37	120	1553.02	119	1552.27	35	1554.87	11	< 1520.00					
02/24/22	575	120	1544.62	63	1550.00	91	1549.23	108	1538.29	83	1550.84	111	1553.20	119	1552.32	35	1554.86	11	< 1520.00					
02/25/22	556	120	1544.70	63	1550.00	91	1549.36	108	1538.36	67	1551.34	101	1553.46	119	1552.43	35	1554.94	11	< 1520.00					
02/26/22	552	120	1544.68	63	1550.00	91	1549.32	108	1538.34	67	1551.31	101	1553.42	119	1552.37	35	1554.88	11	< 1520.00					
02/27/22	554	120	1544.66	63	1550.00	91	1549.29	108	1538.31	67	1551.28	101	1553.39	119	1552.34	35	1554.85	11	< 1520.00					
02/28/22	562	121	1544.62	63	1550.00	91	1549.26	108	1538.29	67	1551.25	101	1553.35	119	1552.30	35	1554.81	11	< 1520.00					
Monthly Average	563	133	1543.51	75	1547.06	104	1548.65	107	1538.16	88	1550.68	112	1553.24	98	1553.00	31	1554.96	11	< 1520.00					
Analytical	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	11		2/10/2022	11		2/10/2022	5.8		2/10/2022	8.8		2/10/2022	4.6		2/10/2022	2.9		2/10/2022	0.91		2/10/2022	2.4		2/10/2022
Hexavalent Chromium	0.0039		2/10/2022	ND		2/10/2022	ND		2/10/2022	0.0039		2/10/2022	ND		2/10/2022	ND		2/10/2022	ND		2/10/2022	ND		2/10/2022
Total Chromium	0.0012 J		2/10/2022	ND		2/10/2022	ND		2/10/2022	0.0017 J		2/10/2022	ND		2/10/2022	ND		2/10/2022	ND		2/10/2022	ND		2/10/2022

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 Eurofins TestAmerica.
 2: 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.
 3: On 02/15, PC-116, PC-99R2/R3, PC-115R, PC-117, PC-119, and PC-133 offline due to maintenance.
 4: On 02/10, PC-116R, PC-99R2/R3, PC-115R, PC-118, and PC-120 flows reduced.
 5: Duplicates taken on 02/10 for well PC-115R; average of both values is presented and used for calculations.
 6: On 02/10, PC-118 switched from IX to LS-1.
 7: On 02/24, PC-118 and PC-119 flow reduced.
 8: From 02/08 to 02/10, PC-119 switched from IX to LS-1
 9: On 02/11, PC-119 switched from IX to LS-1.
 10: On 02/24, PC-133 switched from IX to LS-1.

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 (gpm)	Water Elevation (ft amsl)
02/01/22	428	42	1586.31	143	1586.60	27	1584.89	4.6	1580.13	76	1576.79	22	1585.30	172	1583.49	1.5	1579.62
02/02/22	429	42	1586.32	143	1586.61	27	1584.88	5.2	1580.16	77	1576.81	22	1585.55	173	1583.50	1.5	1579.60
02/03/22	429	42	1586.34	143	1586.63	27	1584.90	5.2	1579.73	77	1576.83	22	1585.80	173	1583.52	1.5	1579.61
02/04/22	430	42	1586.37	143	1586.67	27	1584.93	5.2	1578.83	78	1576.86	22	1586.00	172	1583.55	1.5	1579.62
02/05/22	431	42	1586.41	143	1586.73	27	1584.97	5.2	1578.83	78	1576.90	23	1585.84	172	1583.60	1.5	1579.63
02/06/22	431	42	1586.43	143	1586.76	28	1584.99	5.2	1578.83	79	1576.94	23	1585.88	172	1583.63	1.5	1579.63
02/07/22	432	42	1586.46	143	1586.80	28	1585.02	5.3	1578.83	79	1577.01	23	1585.98	172	1583.66	1.5	1579.63
02/08/22	433	42	1586.50	143	1586.84	28	1585.05	5.3	1578.83	79	1577.11	23	1585.90	173	1583.69	1.5	1579.64
02/09/22	433	42	1586.53	143	1586.88	28	1585.08	5.4	1578.83	80	1577.30	23	1585.85	172	1583.72	1.5	1579.65
02/10/22	434	42	1586.55	143	1586.91	28	1585.11	5.5	1578.84	80	1577.54	23	1585.88	172	1583.75	1.5	1579.65
02/11/22	434	42	1586.57	143	1586.94	28	1585.13	5.6	1578.84	80	1578.38	23	1585.81	172	1583.78	1.5	1579.65
02/12/22	435	42	1586.59	143	1586.96	28	1585.15	5.6	1578.84	80	1579.06	23	1586.00	172	1583.79	1.5	1579.66
02/13/22	435	42	1586.61	143	1586.99	28	1585.17	5.6	1578.84	80	1579.74	23	1586.02	173	1583.81	1.5	1579.66
02/14/22 ²	379	36	1574.29	125	1587.56	24	1585.71	5.0	1580.60	69	1581.74	20	1585.92	150	1584.37	1.3	1580.87
02/15/22 ²	411	39	1574.51	135	1587.49	27	1585.60	5.4	1582.66	75	1581.74	22	1585.60	161	1584.30	1.4	1580.30
02/16/22	437	42	1567.78	144	1587.21	28	1585.33	5.6	1582.52	80	1581.19	24	1585.80	173	1584.03	1.5	1579.72
02/17/22	435	42	1586.74	144	1587.17	28	1585.30	5.8	1578.83	80	1581.15	24	1586.22	171	1584.00	1.5	1579.69
02/18/22	437	42	1586.74	144	1587.16	28	1585.29	5.8	1578.83	80	1581.28	23	1586.22	173	1583.98	1.5	1579.69
02/19/22	437	42	1586.76	144	1587.18	28	1585.31	5.8	1578.83	80	1581.38	23	1586.09	173	1584.00	1.5	1579.69
02/20/22	437	42	1586.78	144	1587.21	28	1585.33	5.8	1578.83	80	1581.47	23	1585.85	173	1584.03	1.5	1579.70
02/21/22	437	42	1586.79	144	1587.22	28	1585.34	5.8	1578.83	80	1581.53	23	1585.64	173	1584.04	1.5	1579.71
02/22/22	437	42	1586.73	144	1587.19	28	1585.32	5.8	1578.83	80	1581.53	23	1585.78	173	1584.01	1.5	1579.69
02/23/22	437	42	1586.72	144	1587.16	28	1585.30	5.8	1578.83	80	1581.52	23	1585.92	173	1583.99	1.5	1579.68
02/24/22	437	42	1586.71	144	1587.14	28	1585.29	5.8	1578.83	80	1581.49	23	1586.26	173	1583.97	1.5	1579.67
02/25/22	437	42	1586.73	144	1587.16	28	1585.30	5.8	1578.83	81	1581.53	23	1586.30	173	1583.99	1.5	1579.68
02/26/22	437	42	1586.73	144	1587.17	28	1585.31	5.8	1578.83	81	1581.52	23	1586.46	173	1584.00	1.5	1579.68
02/27/22	438	42	1586.76	144	1587.20	28	1585.33	5.8	1578.83	81	1581.54	23	1586.43	173	1584.03	1.5	1579.67
02/28/22	438	42	1586.79	144	1587.23	28	1585.36	5.8	1578.83	81	1581.56	23	1586.30	173	1584.05	1.5	1579.69
Monthly Average	432	42	1585.05	143	1587.03	28	1585.20	5.5	1579.29	79	1579.62	23	1585.95	171	1583.87	1.5	1579.73
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	26	2/10/2022	8.6	2/10/2022	160	2/10/2022	90	2/10/2022	130	2/10/2022	52	2/10/2022	59	2/10/2022	45	2/10/2022	
Hexavalent Chromium	ND	2/10/2022	0.0017	2/10/2022	0.21	2/10/2022	0.083	2/10/2022	0.47	2/10/2022	0.29	2/10/2022	0.042	2/10/2022	0.035	2/10/2022	
Total Chromium	ND	2/10/2022	ND	2/10/2022	0.23	2/10/2022	0.090	2/10/2022	0.53 B7	2/10/2022	0.32	2/10/2022	0.043	2/10/2022	0.037	2/10/2022	

Notes:
 Flow reported as gpm is a daily average calculated from the totalizer reading.
 B7 = Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the blank.
 ND = Not detected above laboratory method detection limit (ClO₄ = 0.5 ug/L; ClO₂ = 10 ug/L; NO₃-N = 0.055 mg/L, Cr(VI) = 0.25 ug/L).
 ART-1, 2, 3, 4, 7B, and 8 have adjacent recovery wells, both of which can be used for extraction. The pumping well can be chosen manually or automatically, based on operational considerations.
 The wells with transducers are ART-1, -2, -3, -4, -7A, -8, -9, and PC-150.
 1: Analytical results are reported from Eurofins TestAmerica.
 2: On 02/14 and 02/15, AWF offline due to maintenance.
 3: Duplicates taken on 02/10 for well ART-4/-4A; average of both values is presented and used for calculations.
 4: On 02/17, ART-8A offline due to maintenance.
 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 02/01-02/28 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.

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 ₂ (mg/L)	Flow ⁴ (gpm)	TA - Cr (TR) (mg/L)	TA - Cr (VI) (mg/L)	TA - ClO ₂ (mg/L)	Flow ⁵ (gpm)	TA - ClO ₂ (mg/L)	ETI - ClO ₂ (mg/L)	TA - ClO ₂ (mg/L)	TA - NO ₃ - N (mg/L)	TA - Cr (TR) (mg/L)	TA - Cr (VI) (mg/L)
02/01/22	904	58				0.0				987		49				
02/02/22	908	57	0.72	ND	440	0.0				1,000		50				
02/03/22 ³	904	57				0.0				1,009		52	110			
02/04/22	928	58				0.0				1,010		42				
02/05/22	969	58				0.0				1,027	60	50				
02/06/22	976	58				0.0				1,033		50				
02/07/22	933	58				7.3	0.15	ND	67	1,038		48		13	0.048	0.018
02/08/22	956	58				0.0				1,019		48				
02/09/22 ³	1,017	58	0.32	ND	470	0.0				1,074		47				
02/10/22	1,000	58				0.0				1,058		49				
02/11/22 ³	1,014	57				0.0				1,071		43				
02/12/22	1,014	57				0.0				1,071	60	47				
02/13/22	1,014	57				0.0				1,071		46				
02/14/22 ³	961	57				0.0				1,082		49		19	0.032 B	0.031
02/15/22	948	57				0.0				1,065		47				
02/16/22	1,027	58	0.58	ND	430	0.0				1,086		46				
02/17/22	1,015	56				0.0				1,071		48				
02/18/22	1,017	57				0.0				1,074		46				
02/19/22	1,017	58				0.0				1,075	52	45				
02/20/22	1,017	57				0.0				1,074		46				
02/21/22	1,017	58				0.0				1,075		46				
02/22/22	1,017	56				0.0				1,073		45		21	0.050	0.050
02/23/22	1,018	53	2.6	ND	470	0.0				1,071		44				
02/24/22	998	54				0.0				1,052		46				
02/25/22	977	56				0.0				1,034		48				
02/26/22	978	56				0.0				1,034	49	49				
02/27/22	978	58				0.0				1,036		44				
02/28/22	978	57				0.0				1,035		44				
Monthly Average ²	982	57	1.18	ND	455	0.26	0.150	ND	67	1,050	56	47	110	18	0.043	0.032

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.
 B = Compound was found in the blank and sample.
 ND = Not detected above laboratory method detection limit (ClO₂ = 0.5 ug/L; ClO₃ = 10 ug/L; NO₃-N= 0.055 mg/L, Cr(VI) = 0.25 ug/L).
 1: ETI = Envirogen internal process control data, TA = Eurofins TestAmerica data.
 2: All average concentrations reported are monthly flow weighted averages.
 3: On 02/03, 02/09, 02/11, and 02/14, Treatment Plant offline briefly due to maintenance.
 4: Flows bypassed GW-11 Influent and FBR Plant Influent totalizers from 01/01 to 01/31 due to FBR plant influent strainers clogging, except for monthly sampling and maintenance.
 5: From 02/01 to 02/28, 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

Date	1st Stage FBR ⁶			2nd Stage FBR ⁶			FBR Plant Effluent							
	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)
02/01/22	1,060	6.3	-304	977	5.9	-365	1,029		ND					24
02/02/22	1,033	6.3	-314	783	6.2	-365	1,045		ND					18
02/03/22 ³	1,065	6.4	-320	731	6.2	-318	1,008		ND	0.059				20
02/04/22	1,091	6.3	-348	870	6.0	-389	1,039		ND					25
02/05/22	1,071	6.3	-336	950	5.9	-406	1,061	ND						20
02/06/22	1,069	6.3	-350	841	5.9	-412	1,048		ND					17
02/07/22	1,047	6.3	-330	967	5.2	-397	1,040		ND		0.0039 J	ND	0.089	20
02/08/22	1,095	6.4	-382	918	6.4	-416	1,041		ND					17
02/09/22 ³	1,092	6.4	-354	971	6.4	-369	1,058		ND					17
02/10/22	1,090	6.4	-371	882	6.4	-403	1,067		ND					16
02/11/22 ³	1,056	6.5	-359	867	6.4	-413	1,033		ND					20
02/12/22	1,057	6.5	-376	834	6.3	-422	1,029	0.0031	ND					17
02/13/22	1,080	6.4	-379	921	6.3	-424	1,041		ND					17
02/14/22 ³	1,042	6.3	-379	948	6.6	-437	1,050		ND		0.0084 J B	ND	1.9	17
02/15/22	1,063	6.4	-378	1,003	6.6	-427	1,038		ND					19
02/16/22	1,033	6.4	-378	815	6.6	-429	1,035		ND					15
02/17/22	1,037	6.5	-377	815	6.6	-402	1,016		ND					15
02/18/22	1,071	6.6	-382	822	6.6	-422	1,016		ND					16
02/19/22	1,056	6.5	-379	897	6.6	-426	1,044	0.0037	ND					18
02/20/22	1,055	6.6	-383	914	6.6	-430	1,041		ND					17
02/21/22	1,040	6.6	-401	917	6.6	-430	1,030		ND					22
02/22/22	1,046	6.6	-399	693	6.6	-429	1,020		ND		0.0026 J	ND	0.045	25
02/23/22	1,029	6.6	-390	900	6.6	-409	1,022		ND					28
02/24/22	992	6.6	-403	944	6.6	-420	996		ND					19
02/25/22	1,075	6.6	-398	912	6.6	-428	977		ND					20
02/26/22	1,027	6.6	-409	861	6.6	-427	976	0.0016	ND					17
02/27/22	1,015	6.6	-400	906	6.6	-425	1,001		ND					16
02/28/22	999	6.6	-379	835	6.6	-426	993		ND		0.0051 J	ND	0.054	32
Monthly Average ²	1,053	6.5	-370	882	6.4	-410	1,028	0.0020	ND	0.059	0.0048	ND	0.528	19

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).

B = Compound was found in the blank and sample.

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 = Eurofins TestAmerica data.

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

3: On 02/03, 02/09, 02/11, and 02/14, Treatment Plant offline briefly due to maintenance.

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)
02/15/22	29.9	36.8
02/28/22	28.9	38.1

GW-11 Leak Detection Monitoring				
Date	Amount Pumped ² (gallons)			
	NW Corner	NE Corner	SW Corner	SE Corner
2/10/2022	0	0	573	0
2/23/2022	0	0	482	0

GW-11 Composite Sample ³		
Analytes	Concentration	Units
Perchlorate	6.0	mg/L
Chlorate	11	mg/L
Ammonia as N	0.093	mg/L
Total Phosphorus	0.61	mg/L
Total Dissolved Solids (TDS)	12,000 D	mg/L
Total Suspended Solids (TSS)	160 D	mg/L
pH	9.0 HF	s.u.
Calcium	520	mg/L
Iron	3.1	mg/L
Chromium (total)	0.46	mg/L
Chromium VI	0.0052	mg/L
Chloride	4,300	mg/L
Nitrate as N	2.1	mg/L
Sulfate	3,600	mg/L

Notes:

D = Result was obtained from the analysis of a dilution.

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

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.

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: February 23, 2022

Nevada Environmental Response Trust Groundwater Extraction and Treatment System Enhanced Operational Metrics						
Date	Flow ¹ (gpm)	FBR Influent Concentration			Influent Function Load ² (lbs/day)	6 Month Rolling Average (lbs/day)
		ClO ₄ (mg/L)	NO ₃ as N (mg/L)	ClO ₃ (mg/L)		
March 2021	1,012	56	7.1	120	447	465
April 2021	1,027	55	6.1	110	420	467
May 2021	1,031	58	8.5	120	476	460
June 2021	1,027	58	8.1	120	470	456
July 2021	1,043	62	8.1	120	487	454
Aug 2021	1,063	62	8.6	120	502	460
Sep 2021	954	62	11	130	492	467
Oct 2021	924	66	11	120	464	475
Nov 2021	879	49	10	120	406	473
Dec 2021	934	42	10	110	391	471
Jan 2022	992	58	11	120	481	457
Feb 2022	1,050	56	18	110	563	466

Notes:

Concentrations and flow are presented as monthly average.

1: Flow used in loading calculation is average monthly FBR influent flow.

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

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)
02/01/22	2.3	1712.01	0.80	1710.86	0.74	1711.65	1.2	1712.64	1.0	1716.90	1.4	1714.48	1.1	1716.16	0.32	1715.21
02/02/22	2.3	1712.38	0.78	1710.74	0.74	1709.82	1.1	1714.21	0.92	1717.12	1.3	1715.20	0.95	1716.44	0.29	1716.61
02/03/22	2.3	1712.22	0.78	1711.17	0.74	1710.35	1.1	1713.74	0.89	1717.89	1.2	1716.09	0.92	1716.56	0.28	1717.52
02/04/22	2.3	1713.13	0.79	1710.32	0.76	1710.20	1.2	1713.49	0.56	1717.25	1.3	1715.46	1.1	1715.94	0.27	1716.06
02/05/22	2.3	1712.63	0.81	1710.69	0.75	1710.33	1.2	1713.70	1.3	1716.52	1.3	1715.39	1.1	1716.11	0.28	1715.81
02/06/22	2.2	1712.18	0.80	1710.41	0.74	1710.37	1.1	1714.42	1.1	1716.77	1.3	1715.50	1.1	1716.11	0.31	1716.24
02/07/22	2.2	1712.04	0.77	1710.34	0.75	1710.02	1.1	1713.34	1.0	1716.07	1.3	1714.76	1.1	1715.91	0.27	1715.99
02/08/22	2.3	1712.28	0.80	1710.55	0.79	1709.95	1.1	1711.97	1.1	1715.45	1.4	1714.01	1.2	1716.11	0.28	1715.50
02/09/22	2.3	1712.34	0.79	1710.14	0.78	1711.11	1.0	1714.69	1.1	1715.71	1.4	1714.68	1.1	1715.31	0.34	1716.12
02/10/22 ²	2.2	1712.44	0.81	1709.78	0.77	1710.67	1.0	1714.92	1.1	1715.08	1.3	1713.57	1.1	1715.28	0.33	1715.59
02/11/22	2.3	1712.43	0.81	1710.39	0.79	1710.58	1.0	1715.29	1.1	1713.91	1.4	1713.62	1.2	1715.89	0.32	1716.20
02/12/22	2.2	1712.23	0.78	1710.10	0.76	1711.45	1.0	1715.03	1.1	1714.51	1.4	1713.73	1.2	1715.97	0.30	1716.25
02/13/22	2.3	1711.99	0.80	1710.29	0.79	1711.77	1.1	1715.54	1.1	1715.07	1.5	1714.20	1.2	1715.39	0.30	1716.02
02/14/22	2.2	1711.87	0.73	1710.51	0.75	1711.65	1.0	1715.41	1.1	1715.32	1.4	1714.03	1.2	1715.16	0.26	1716.16
02/15/22	2.2	1712.31	0.80	1710.61	0.77	1711.51	1.0	1715.15	1.0	1715.47	1.4	1713.95	1.2	1715.31	0.20	1716.47
02/16/22	2.3	1710.68	0.79	1710.34	0.77	1710.50	0.89	1715.46	1.1	1716.40	1.4	1714.10	1.2	1716.24	0.28	1716.44
02/17/22 ²	2.3	1710.47	0.77	1709.74	0.78	1709.90	0.87	1717.80	1.1	1716.04	1.4	1713.62	1.2	1715.99	0.31	1716.37
02/18/22	2.3	1711.32	0.76	1711.24	0.78	1711.40	1.1	1714.91	1.1	1715.99	1.4	1713.53	1.2	1716.16	0.27	1716.34
02/19/22	2.3	1710.61	0.76	1710.66	0.79	1710.82	1.1	1714.84	1.1	1715.54	0.51	1713.69	1.1	1715.89	0.26	1716.49
02/20/22	2.3	1711.26	0.80	1710.71	0.80	1710.87	1.1	1713.88	1.1	1715.05	1.9	1713.95	1.2	1716.36	0.20	1716.91
02/21/22	2.3	1710.88	0.78	1711.25	0.80	1711.41	1.1	1714.97	1.1	1715.77	1.4	1714.80	1.2	1716.47	0.21	1716.34
02/22/22 ²	2.2	1711.87	0.72	1711.41	0.75	1710.77	0.89	1715.23	0.90	1715.82	1.1	1715.54	0.98	1717.00	0.24	1717.17
02/23/22 ²	2.3	1711.64	0.76	1711.17	0.79	1710.90	0.95	1716.29	0.95	1715.88	1.2	1716.13	1.0	1717.41	0.26	1721.14
02/24/22	2.1	1713.51	0.79	1712.26	0.75	1710.90	1.1	1716.15	1.1	1716.03	1.4	1716.20	1.1	1717.20	0.50	1714.91
02/25/22	2.1	1715.28	0.76	1712.61	0.74	1712.12	0.90	1717.93	0.99	1717.47	1.2	1717.57	1.0	1717.96	0.45	1713.20
02/26/22	2.3	1711.92	0.79	1712.83	0.75	1713.10	1.2	1713.81	0.95	1717.34	1.3	1715.97	1.0	1717.92	0.46	1713.14
02/27/22	2.4	1712.20	0.76	1712.00	0.75	1713.02	1.2	1713.29	0.97	1717.30	1.3	1715.20	1.1	1717.43	0.44	1710.13
02/28/22	2.3	1711.52	0.83	1710.96	0.76	1711.33	1.2	1712.70	0.95	1716.67	1.4	1714.93	1.1	1716.75	0.45	1710.12
Monthly Average	2.3	1712.06	0.78	1710.86	0.77	1711.02	1.1	1714.67	1.0	1716.09	1.3	1714.78	1.1	1716.30	0.31	1715.73
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 ³ (mg/L)	Date
Perchlorate	570	2/14/2022	890	2/14/2022	380	2/14/2022	86	2/14/2022	360	2/14/2022	920	2/14/2022	860	2/14/2022	1,100	2/14/2022
Hexavalent Chromium	0.082	2/14/2022	0.41	2/14/2022	0.58	2/14/2022	0.028	2/14/2022	0.027	2/14/2022	0.090	2/14/2022	0.083	2/14/2022	0.190	2/14/2022
Total Chromium	0.083 B	2/14/2022	0.50 B	2/14/2022	0.61 B	2/14/2022	0.029 B	2/14/2022	0.043 B	2/14/2022	0.096 B	2/14/2022	0.085 B	2/14/2022	0.20B	2/14/2022

Notes:
 Flow reported as gpm is a daily average calculated from the totalizer reading.
 B = Compound was found in the blank and sample.
 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 Eurofins TestAmerica.
 2: On 02/10, 02/17, 02/22, and 02/23, AP Area wells offline briefly due to maintenance.
 3: Duplicates taken on 02/14 for well E2-5; average of both values is presented and used for calculations.

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

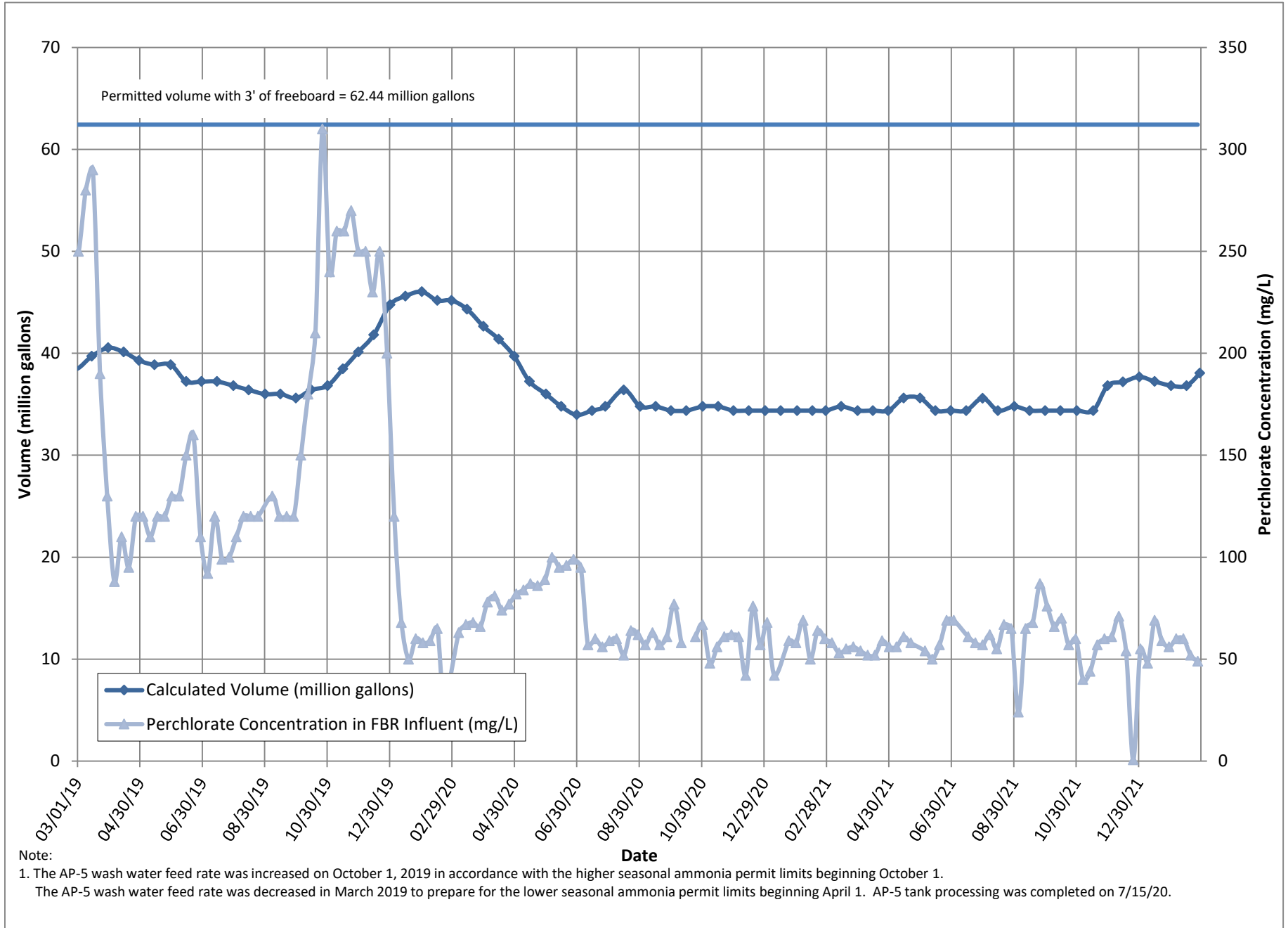


Figure 2 - FBR Equivalent Loading Calculation

