

То:	Nevada Division of Environmental Protection Nevada Environmental Response Trust
Cc:	Nevada Environmental Response Trust Stakeholders
From:	Ryan Sullivan, Vice President Service and O&M
Date:	Sept 20, 2021
Subject:	NERT – GWETS Operation Monthly Report – August 2021

At the request of the Nevada Environmental Response Trust (Trust), Envirogen Technologies, Inc. (ETI) is providing this summary of the groundwater extraction and treatment system (GWETS) operation and performance during August 2021.

Summary of GWETS Operation

Envirogen Technologies, Inc. (ETI) mechanically operated the GWETS and ion exchange (IX) system normally in August 2021. Flow from PC-119, PC-120, PC-121, and PC-133 was routed to the IX system, bypassing all flow meters associated with the FBR plant. The flow rate to the IX system averaged approximately 194 gallons per minute (gpm). The flow rate to the FBR plant averaged approximately 1,063 gpm during August 2021. At the end of the month, the available GW-11 Pond volume was at 34.8 million gallons (MG), which would allow 19.2 days of available additional storage in the event of an emergency FBR plant shutdown with continued well field pumping. The available water volume stored in the GW-11 Pond decreased since the end of July 2021; Figure 1 in this report depicts the actual GW-11 pond volumes and additional storage available.

The influent perchlorate concentration to the IX system averaged 0.17 mg/L for the month. The influent perchlorate concentration to the FBR plant averaged 62 mg/L for the month, with a maximum concentration of 67 mg/L. In comparison, the influent perchlorate concentration to the FBRs for the month of July 2021 averaged 62 mg/L, with a maximum concentration of 69 mg/L.

Enhanced Operational Metrics

Tables 1 and 2 provide a summary of the current GWETS operational metrics data for flow rates, perchlorate and chromium concentrations, and mass removal. Figure 2 graphically presents historical perchlorate and chromium mass flux information. Attachment A provides a summary of the NPDES permit analytes with numerical discharge limits.

Operational Issues

All routine plant repairs conducted by ETI were performed in accordance with the NERT Perchlorate Treatment System Operations Manual. The following is a list of operational issues and major repairs and/or

equipment replaced during this reporting period.

1. GW-11

There were no operational issues with GW-11 in the month of August.

2. Biological Plant

There were influent / effluent diversions during the reporting period generally associated with GW-11 pond level maintenance as well as extraction well short-term shutdown events. Below is a description of the events that occurred:

Diversion Events / Well Shutdowns

- Well Field Shutdown of the Seep Well Field (SWF) occurred on August 3, 2021 from 6:30am to 10:00am due to a maintenance activities at the IX electrical fuse boxes. Maintenance was completed and the well field was brought back online.
- Effluent diversion to GW-11 occurred on August 3, 2021 from 12:08pm to 2:04pm as a precautionary measure due to high effluent turbidity. Adjustments were made to the solids removal process and the effluent was returned to the outfall. Approximately 130,000 gallons of water were diverted to GW-11.
- Effluent diversion to GW-11 occurred on August 11, 2021 from 12:37am to 4:45am due to low GW-11 pond level. Approximately 260,000 gallons of water were diverted to GW-11.
- Effluent diversion to GW-11 occurred on August 13, 2021 from 11:30pm to August 14, 2021 at 5:20am due to low GW-11 pond level. Approximately 318,000 gallons of water were diverted to GW-11.
- Effluent diversion to GW-11 occurred on August 16, 2021 from 11:00pm to August 17, 2021 at 4:00am due to low GW-11 pond level. Approximately 314,000 gallons of water were diverted to GW-11.
- Effluent diversion to GW-11 occurred on August 17, 2021 from 11:20pm to August 18, 2021 at 3:15am due to low GW-11 pond level. Approximately 247,000 gallons of water were diverted to GW-11.
- Well Field Shutdown of the Athens Well Field (AWF) occurred on August 18, 2021 from 9:40am to 10:20am due to a maintenance activities at the main electrical fuse connectors. Maintenance was completed and the well field was brought back online.
- Effluent diversion to GW-11 occurred on August 19, 2021 from 11:30pm to August 20, 2021 at 4:25am due to low GW-11 pond level. Approximately 300,000 gallons of water were diverted to GW-11.
- Effluent diversion to GW-11 occurred on August 21, 2021 from 11:32pm to August 22, 2021 at 4:50am due to low GW-11 pond level. Approximately 345,000 gallons of water were diverted to GW-11.
- Effluent diversion to GW-11 occurred on August 25, 2021 from 11:34pm to August 26, 2021 at 4:00am due to low GW-11 pond level. Approximately 289,000 gallons of water were diverted to GW-11.
- Influent diversion to GW-11 occurred on August 26, 2021 from 8:37am to 8:54am due to a maintenance activities at effluent pump check valve. Maintenance was completed and the treatment plant was brought back online.

- Effluent diversion to GW-11 occurred on August 26, 2021 from 11:50am to 8:00pm due to low GW-11 pond level. Approximately 492,000 gallons of water were diverted to GW-11.
- Influent diversion to GW-11 occurred on August 28, 2021 from 9:43am to 11:03am due to a malfunctioning recycle pump at the FBR 6 pump skid. Maintenance was completed and the treatment plant was brought back online.
- Effluent diversion to GW-11 occurred on August 28, 2021 from 10:17am to 12:20pm as a precautionary measure due to high effluent turbidity. Adjustments were made to the solids removal process and the effluent was returned to the outfall. Approximately 129,000 gallons of water were diverted to GW-11.

3. Spills

There were no reportable spills in the month of August.

4. Maintenance

- Major maintenance performed by ETI in the reporting month included:
 - I. Changed the signal receivers for the feed valve positioners for FBRs 3 and 4.
- II. Welded a new strainer for the suction of the south vertical turbine at LS1.
- III. Replaced the fuses for the run command that controls the ART wells at LS3.
- IV. Installed new air ends on the GWTP filter press pump.
- V. Installed a new cylinder on the GWTP filter press.
- VI. Re-spliced the wires for the AP-5 auto dialer.
- VII. Changed the belts on the South DAF sludge pump.
- VIII. Rebuilt the pump for media return #2.
- IX. Installed a new feed pump for the DAF turbidity meter.
- X. Replaced the limit switch wires for the front gate.
- XI. Installed a new lid for AP Area extraction well E2-3.
- Preventative maintenance performed by ETI in the reporting month included:
 - I. Cleaned the air filters around the plant for the feed valves.
- II. Greased the motors around the plant.
- III. Cleaned the suction strainer for the south turbine at LS1.
- IV. Cleaned the plot 2 leak sensors in the AP-5 well field.
- V. Calibrated the flowmeter on IWF extraction well I-AR.
- VI. Cleaned out the pump head of the east DAF polymer feed system.
- VII. Removed solids from separator 1.
- VIII. Built spare airlifts for the sand filter.
- IX. Removed solids from the reject tank and cleaned the tank.
- X. Cleaned the level sensors on the dry polymer transfer tote.

GWETS Upgrades and Facility Projects

Unit 4 Chromium Water Treatment Plant – Envirogen participated in a meeting with the Trust in April 2021 to discuss moving this project forward. Envirogen received notification at the end of May that the Trust will be repurposing one of the AP tanks to support the Unit 4 Source Area In-situ Bioremediation Treatability Study. Groundwater extracted as part of this treatability study will be conveyed to this tank via tanker truck where it will be stored and subsequently routed to the treatment plants for processing. Envirogen will take over responsibility for operating this tank for the duration of treatability study. Envirogen will work with the Trust in the coming months to establish a scope of work for this activity.

GWETS Extension – The signed Work Authorization for engineering and fabrication of the GWETS Extension was returned to the Trust on January 28, 2020. As a result of comments received from Clark County that prohibit the use of shipping containers as structures, Envirogen submitted a Work Authorization to the Trust for: re-designing the pump system containers to independent skids; modifying the electrical control panels; and providing 3-sided canopies to house sun sensitive equipment. The Work Authorization was signed by Envirogen and the Trust in March 2021. Components of the system have arrived onsite and are being stored until construction begins. Envirogen received comments from the Trust regarding the GWETS O&M Work Authorization (Contract Amendment 8) and provided a response in March 2021. The Authorization has not been completed, Envirogen is waiting to receive the final version of the Contract Amendment.

GWETS Staffing

ETI continues with 24-hour staffing of the GWETS at the direction of the Trust and continues to follow the security procedures in the Standard Operating Procedures (SOP).

Tables

Operational Metrics

Table 1 - Flow Rate and Perchlorate and Chromium Concentrations

Nevada Environmental Response T	Nevada Environmental Response Trust I Groundwater Extraction and Treatment System I Monthly Stakeholder Metric											
Location ID	Average Flow Rate (gpm)	Perchlorate (mg/L)4 5	Chromium (TR) (mg/L) ^{4 5}	Chromium(VI) (mg/L) ^{4 5}								
SWF Total Extraction ¹	748 ³	10.4	0.00132	0.0021								
AWF Total Extraction ¹	448 ³	69	0.13	0.13								
IWF Total Extraction ¹	56 ³	435	6.0	6.2								
AP Area Total Extraction ¹	9.9 ³	810	0.15	0.19								
GWTP Effluent ²	58	457	0.22	ND								
GW-11 Influent ¹	0.24	58	0.09	0.0260								
FBR Influent ²	1,063	62	0.020	0.025								

Notes:

TR = Total Recoverable; NA = Not Analyzed; ND = Not detectable above laboratory method detection limit (Chromium (VI) = 0.25 ug/L).

1: Perchlorate and chromium TR sampled monthly, values reported from Eurofins TestAmerica.

2: Perchlorate, chromium TR, and chromium (VI) sampled weekly, values reported from Eurofins TestAmerica.

3: Sum of daily average flow for individual wells.

4: All concentrations reported are monthly flow weighted averages.

5: ND analytical values are treated as zero values in the flow weighted average calculations.

Table 2 - Perchlorate and Chromium Mass Flux

Nevada Environmental Response Tru	ust I Groundwater Extraction and Tre	atment System I Monthly Stakehold	ler Metrics
Location ID	Perchlorate (lbs/month) ¹	Chromium (TR) (lbs/month) ¹	Chromium (VI) (lbs/month) ¹
SWF Total Extraction	2,904	0.367	44,422
AWF Total Extraction	11,586	21	22
IWF Total Extraction	9,022	125	130
AP Area Total Extraction	2,979	0.57	0.71
GWTP Effluent	9,823	4.7	ND
GW-11 Influent	5.1	0.0078	0.00229
FBR Influent ¹	24,655	9.6	12.0

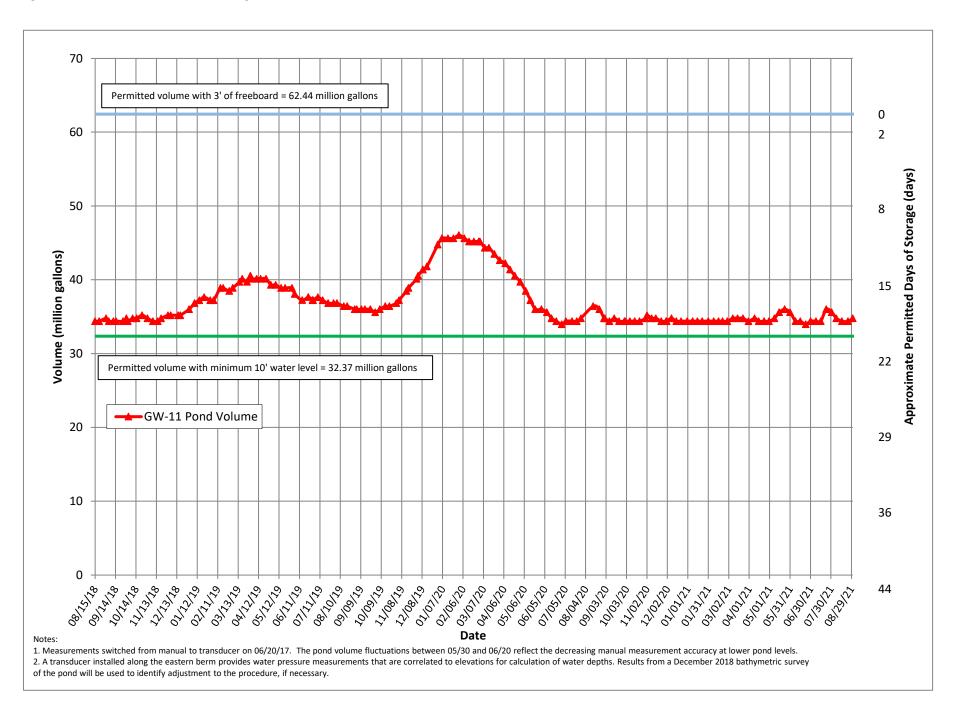
Notes:

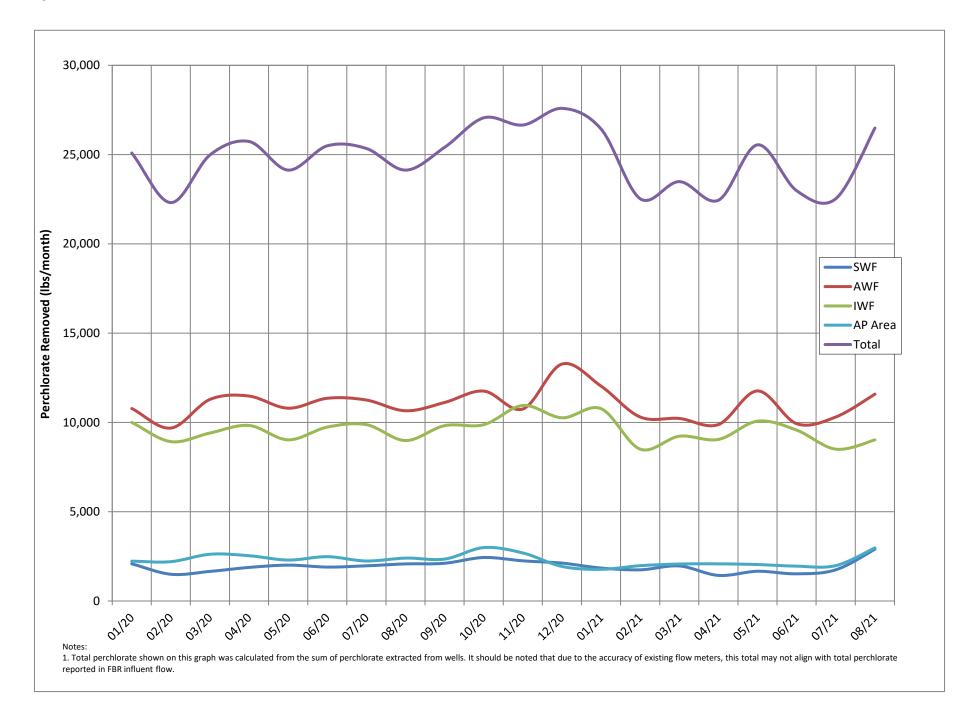
TR = Total Recoverable; NA = Not Analyzed.

1: Total mass extracted is calculated from flow weighted average concentration and average flow (see Table 1).

Figures

Operational Metrics





Attachment A

NPDES Tracking Sheet (Prepared by Ramboll)

					_						Trea	ted Effluent at Ou													
	Contin	uous	Daily Sampl	es, composited	weekly			-			•	Weekly Grab	Samples									Weekly, o	collected sep	oarately	4
	Flow F	Rate		Perchlorate			рН	Hexavalent Chromium	Total Chromium	Manganese	Total Iron	Total Inorganic Nitrogen (TIN)	Total Susper (TS		Total An	nmonia a	as N	Total Ph	nosphorus	s as P		вс	DD ₅ (inhibited)	
	30-Day Avg. (MGD)	Daily Maximum (MGD)	30-Day A (μg/L		ay Avg. /day)		Daily Min. Daily Max (S.U.) (S.U.)	. Daily Max. (μg/L)	Daily Max. (µg/L)	Daily Max. (µg/L)	Daily Max. (µg/L)	Daily Max. (mg/L)	Daily Average (mg/L)	Avg.		Day Avg. os/day)			-Day Avg. Ibs/day)			30-Day Avg. (mg/L)	Daily Max. (mg/L)	30-Day Avg.	
	2.52	(NGD) 2.88	18	0	.38		6.5 9.0	10	100	5,000	10,000	20	135	(lbs/day) 2,839		20*			10*			25	40	(lbs/day) 525	
																									<u> </u>
January 2021	1.80	1.90	0.6	-	009		6.6 6.8	ND (<0.25)	12	100	1,300	1.0	19	290		4			7			ND (<5.0)	ND (<5.0)	38	
Feburary 2021 March 2021	1.76 1.76	1.85	0.55		008		6.5 6.7	ND (<0.25)	5.6	100	1,200	10	21	320		6			6.1 6.6			<u> </u>	38	170	
April 2021	1.76	1.84	ND (<0.) 9	•	0023		6.5 6.9 6.6 7.2	ND (<0.25) ND (<0.25)	2.2	110 72	1,100 940	1.4 0.29	15	220 100		2.6			5.2			5 ND (<5.0)	15 ND (<5.0)	80 37	
May 2021	1.65	1.82	0.16		0021		6.5 6.9	ND (<4.0)	4.7	100	1,700	0.29	16	220		2.8			3.2			ND (<5.0)	ND (<5.0)	34	
June 2021	1.72	1.82	0.10		0022		6.5 6.6	ND (<0.25)	2.1	78	990	0.69	15	230		1.7			5.7			ND (<5.0)	ND (<5.0)	35	
July 2021	1.62	1.86	0.10		0021		6.6 7.0	ND (<0.25)	14	100	1,500	0.50	20	210		1.0			4.4			ND (<5.0)	ND (<5.0)	37	
August 2021	1.69	1.84	0.16		0022		6.5 6.7	ND (<0.20)	3.7	110	1,900	0.67	17	250		3.1			6			ND (<4.3)	ND (<5.0)	30	
September 2021 (month to date)	1.74	1.80	NA		NA		NA NA	NA	NA	NA	NA	NA	NA	NA		NA			NA			ND (<5.0)	ND (<5.0)	37	
	Daily Grab	Composite		μg/L Ibs	/day	Sample Date	S.U.	μg/L	μg/L	μg/L	μg/L	mg/L	mg/L	lbs/day	mg/L		lbs/day		mg/L	lbs/day	Sample Date	mg		lbs/day	Sample
	Sample Dates 1/3 - 1/9	Sample Date 1/9/2021	ND (<0.31)		0023	1/4/2021	6.6	ND (<0.25)	2.2	100	650	0.16	24	367		0.064	1.0		0.38	EO	1/6/2021	ND (<5.0)		38	Date
	1/10 - 1/16	1/3/2021	ND (<0.31) ND (<0.31)		0023	1/12/2021	6.6 6.7	ND (<0.25) ND (<0.25)	2.2	82	720	0.32	24	319		0.004	2.1		0.36	5.8 5.5	1/0/2021	ND (<5.0) ND (<5.0)	2.5 2.5	38	
	1/17 - 1/23	1/23/2021	1.8		027	1/18/2021	6.8	ND (<0.25)	3.6	83	1,300	1.0	18	278		0.87	13		0.68	10	1/20/2021	ND (<5.0)	2.5	38	
	1/24 - 1/30	1/30/2021	ND (<0.31)		0023	1/25/2021	6.6	ND (<0.25)	12	64	940	0.21	14	215		0.095	1.5		0.39	6.0	1/27/2021	ND (<5.0)	2.5	39	
	1/31 - 2/6	2/6/2021	ND (<0.31)		0023	2/1/2021	6.7	ND (<0.25)	5.3 5.6 ⁺	49	880	1.1	13	198		0.99	15		0.43	6.6	2/3/2021	ND (<5.0)	2.5	38	2/2/202
	2/7 - 2/13	2/13/2021	0.92 J		014	2/8/2021	6.6	ND (<0.25)	4.4	57	1,100	10	28	429		0.25	3.8		0.45	6.9	2/10/2021	ND (<5.0)	2.5	36	2/2/202
	2/14 - 2/20	2/20/2021	ND (<0.31)		0023	2/15/2021	6.5	ND (<0.25)	2.9	76	930	0.16	22	330		0.16	2.4		0.38	5.7	2/17/2021	38	8	569	
	2/21 - 2/27	2/27/2021	0.96 J		0140	2/22/2021	6.7	ND (<0.25)	ND (<0.85)	100	1,200	0.19	21	316		0.16	2.4		0.34	5.1	2/24/2021	ND (<5.0)	2.5	37	
	2/28 - 3/6	3/6/2021	ND (<0.31)		0022	3/2/2021	6.6	ND (<0.25)	1.1	96	570	1.4	11	155		0.30	4.2		0.34	4.8	3/4/2021	ND (<5.0)	2.5	38	
	2/7 - 3/13	3/13/2021	ND (<0.31)	0.16 0.0	0023	3/8/2021	6.6	ND (<0.25)	2.2	110	760	0.21	20	286		0.21	3.0		0.37	5.3	3/10/2021	ND (<5.0)	2.5	37	
	3/14 - 3/20	3/20/2021	ND (<0.31)	0.16 0.0	0023	3/15/2021	6.5	ND (<0.25)	ND (<0.85)	78	700	0.46	21	316		0.22	3.3		0.63	9.5	3/17/2021	ND (<5.0)	2.5	37	
	3/21 - 3/27	3/27/2021	ND (<0.31)	0.16 0.0	0023	3/22/2021	6.9	ND (<0.25)	ND (<0.85)	53	1,100	ND (<0.050)	18	271	ND(<0.039)	0.020	0.29		0.55	8.3	3/24/2021	15	5	228	
	3/28 - 4/3	4/3/2021	ND (<0.31)	0.16 0.0	0023	3/29/2021	6.6	ND (<0.25)	ND (<0.85)	61	840	0.25	ND(<10) 5	74		0.13	1.9		0.34	5.0	3/31/2021	ND (<5.0)	2.5	37	<u> </u>
	4/4 - 4/10	4/10/2021	10		.14	4/5/2021	6.6	ND (<0.25)	1.1	38	880	0.22	ND(<10) 5	74		0.16	2.4		0.37	5.5	4/7/2021	ND (<5.0)	2.5	37	
	4/11 - 4/17	4/17/2021	ND (<0.31)	0.16 0.0	0023	4/12/2021	7.0 7.0 ⁺	ND (<0.25)	ND (<0.85)	30	920	0.24	13	194		0.14	2.1		0.33	4.9	4/14/2021	ND (<5.0)	2.5	37	
	4/18 - 4/24	4/24/2021	ND (<0.31)		0022	4/19/2021	7.0	ND (<0.25)	1.2	49	940	0.29	ND(<10) 5	75		0.15	2.2		0.33	4.9	4/21/2021	ND (<5.0)	2.5	37	
	4/25 - 5/1	5/1/2021	24		.35	4/27/2021	7.2	ND (<0.25)	ND (<0.85)	72	790	0.23	ND(<10) 5	75		0.15	2.3		0.35	5.3	4/28/2021	ND (<5.0)	2.5	38	───
	5/2 - 5/8	5/8/2021	ND (<0.31)		0020	5/3/2021	6.8	ND (<4.0)	ND (<0.85)	54	950	0.33	ND(<10) 5	59		0.19	2.3		0.31	3.7	5/5/2021	ND (<5.0)	2.5	25	- / /
	5/9 - 5/15	5/15/2021	ND (<0.31)		0021	5/11/2021	6.7	ND (<0.25)	<0.85 <0.85	72	970	0.56	15	217		0.44	6.4		0.38	5.5	5/12/2021	ND (<5.0)	2.5	3/	5/12/20
	5/16 - 5/22	5/22/2021	ND (<0.31)		0021	5/17/2021	6.9	ND (<0.25)	3.7	100	1,700	0.14	23	301		0.11	1.4		0.079	1.0	5/19/2021	ND (<5.0) ⁺⁺	2.5	37	1
	5/23 - 5/29	5/29/2021	ND (<0.31)		0023	5/24/2021	6.5	ND (<0.25)	4.7	98	790	0.21	20	295		0.090	1.3		0.17	2.5	5/26/2021	ND (<5.0)	2.5	37	
	5/30 - 6/5	6/5/2021	ND (<0.31)		0023	6/1/2021	6.6	ND (<0.25)	2.1	77	690	0.33	12	180		0.15	2.2		0.41	6.1	6/2/2021	ND (<5.0) ⁺	2.5	37	
	6/6 - 6/12	6/12/2021			0023	6/7/2021	6.6	ND (<0.20)	1.6	78	990	0.22	16	237		0.065	1.0		0.10	1.5	6/9/2021	ND (<5.0)	2.5	37	
	6/13 - 6/19		ND (<0.31)		0022	6/14/2021 6/21/2021	6.6	ND (<0.20)	1.7	61 50	960 520	0.69	23 15	343		0.11	1.6		0.53	7.9 E 2	6/16/2021	ND (<5.0)	2.5	35 30	
	6/20 - 6/26 6/27 - 7/3	6/26/2021 7/3/2021	ND (<0.31) ND (<0.31)		0021 0022	6/21/2021 6/28/2021	6.5	ND (<0.20) ND (<0.20)	ND (<0.85) 1.4	50 54	530 860	0.35 0.52	15	222 164		0.12 0.12	1.8 1.8		0.36 0.52	5.3 7.8	6/23/2021 6/30/2021	ND (<5.0) ND (<5.0)	2.5 2.5	30	
	7/4 - 7/10		ND (<0.31) ND (<0.31)		0022	7/6/2021	6.5 6.7	ND (<0.20)	1.4	55	630	0.32	20	205		0.12	0.86		0.32	3.2	7/7/2021	ND (<5.0) ND (<5.0)	2.5	37	<u> </u>
	7/11 - 7/17		ND (<0.31) ND (<0.31)		0021	7/12/2021	6.6	ND (<0.20)	0.94	45	750	0.22	ND(<10) 5	66		0.054	0.30		0.31	3.2	7/14/2021	ND (<5.0) ND (<5.0)	2.5	37	
	7/18 - 7/24		ND (<0.31) ND (<0.31)		0017	7/20/2021	6.6	ND (<0.20) ND (<0.20)	14	100	1,500	0.50	45	404		0.038	2.0		0.28	4.0	7/21/2021	ND (<5.0) ND (<5.0)	2.5	37	1
	7/25 - 7/31		ND (<0.31)		0024	7/27/2021	7.0	ND (<0.25)	2.7	50	1,100	ND (<0.050)	11	171		0.020	0.30		0.43	4.0 6.7	7/28/2021	ND (<5.0)	2.5	38	1
	8/1 - 8/7	8/7/2021	ND (<0.31)		0023	8/2/2021	6.5	ND (<0.20)	1.2	36	1,900	0.67	29	445		0.40	6.1		0.88	14	8/4/2021	ND (<5.0)	2.5	37	<u> </u>
	8/8 - 8/14		ND (<0.31)		0022	8/9/2021	6.5	ND (<0.20)	2.5	91	730	0.50	16	238		0.14	2.1		0.42	6.3	8/11/2021	ND (<5.0)	2.5	31	1
	8/15 - 8/21		ND (<0.31)		0022	8/17/2021	6.5	ND (<0.20)	1.8	110	860	0.39	ND(<10) 5	60		0.17	2.0		0.33	4.0	8/18/2021	ND (<2.0)	1.0	13	8/17/202
	8/22 - 8/28		ND (<0.31)		0020	8/23/2021	6.5	ND (<0.20)	3.7	99	530	0.27	12	175		0.21	3.1		0.32	4.7	8/25/2021	ND (<5.0)	2.5	37	
	8/29 - 9/4	9/4/2021	NA		NA	8/30/2021	6.7	ND (<0.20)	ND (<0.85)	100	640	0.32	21	313		0.13	1.9		0.23	3.4	9/1/2021	ND (<5.0)	2.5	37	
	0/25 5/4	-11-				<u> </u>																			

0		Deile Commun		1	1	_				Irea	ted Effluent at Ou				_						Marti	llected	watak
Contin	uous	Daily Samples, con	nposited weekly	4						1	Weekly Grab	Samples				r				4 4	Weekly, co	ollected sepa	rately
Flow	Rate	Perchlo	orate		рН		Hexavalent Chromium	Total Chromium	Manganese	Total Iron	Total Inorganic Nitrogen (TIN)	Total Suspen (TSS		Total /	Ammonia a	as N	Total Pho	sphoru	s as P		BOD	D ₅ (inhibited)	
30-Day Avg. (MGD)	Daily Maximum	30-Day Avg. (μg/L)	30-Day Avg. (Ibs/day)			y Max. 5.U.)	Daily Max. (µg/L)	Daily Max. (µg/L)	Daily Max. (µg/L)	Daily Max. (µg/L)	Daily Max. (mg/L)	Daily Average (mg/L)	30-Day Avg.)-Day Avg. (Ibs/day)			Day Avg. s/day)			30-Day Avg. (mg/L)	Daily Max. (mg/L)	30-Day Avg.
2.52	(MGD) 2.88	18	0.38			9.0	10	100	5,000	10,000	20	135	(lbs/day) 2,839		20*			10*			25	40	(lbs/day) 525
1.00	1.00	0.0	0.000			<u> </u>		12	100	1 200	1.0	10	200		4			7					
1.80 1.76	1.90 1.85	0.6	0.009				ND (<0.25) ND (<0.25)	12 5.6	100	1,300 1,200	1.0 10	19 21	290 320		4			6.1			ND (<5.0) 11	ND (<5.0) 38	38 170
1.76	1.84	ND (<0.31)	0.0023				ND (<0.25)	2.2	110	1,100	1.4	15	220		2.6			6.6			5	15	80
1.72	1.82	9	0.12			7.2	ND (<0.25)	1.2	72	940	0.29	7	100		2.2			5.2			ND (<5.0)	ND (<5.0)	37
1.65	1.84	0.16	0.0021				ND (<4.0)	4.7	100	1,700	0.56	16	220		2.8			3.2			ND (<5.0)	ND (<5.0)	34
1.72 1.62	1.82 1.86	0.16	0.0022				ND (<0.25) ND (<0.25)	2.1 14	78 100	990 1,500	0.69 0.50	15 20	230 210		1.7 1.0			5.7 4.4			ND (<5.0) ND (<5.0)	ND (<5.0) ND (<5.0)	35 37
1.69	1.84	0.16	0.0021				ND (<0.20)	3.7	110	1,900	0.67	17	250		3.1			6				ND (<5.0)	30
1.74	1.80	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA		NA			NA				ND (<5.0)	37
Daily Grab Sample Dates	Composite Sample Date	μg/L	lbs/day	Sample Date	S.U.		µg/L	μg/L	μg/L	μg/L	mg/L	mg/L	lbs/day	mg/	/L	lbs/day		mg/L	lbs/day	Sample Date	mg/I		lbs/day
1/3 - 1/9	1/9/2021	ND (<0.31) 0.16		1/4/2021	6.6		ND (<0.25)	2.2	100	650	0.16	24	367		0.064	1.0		0.38	5.8	1/6/2021	ND (<5.0)	2.5	38
1/10 - 1/16	1/16/2021	ND (<0.31) 0.16		1/12/2021	6.7		ND (<0.25)	2.9	82	720	0.32	21	319		0.14	2.1		0.36	5.5	1/13/2021	ND (<5.0)	2.5	38
1/17 - 1/23 1/24 - 1/30	1/23/2021 1/30/2021	1.8 1.8 ND (<0.31) 0.16	0.027 0.0023	1/18/2021 1/25/2021	6.8 6.6		ND (<0.25) ND (<0.25)	3.6 12	83 64	1,300 940	1.0 0.21	18 14	278 215		0.87 0.095	13 1.5		0.68 0.39	10 6.0	1/20/2021 1/27/2021	ND (<5.0) ND (<5.0)	2.5 2.5	38 39
1/31 - 2/6	2/6/2021	ND (<0.31) 0.16		2/1/2021	6.7		ND (<0.25)	5.3 5.6 ⁺	49	880	1.1	13	198		0.99	1.5		0.43	6.6	2/3/2021	ND (<5.0)	2.5	38
2/7 - 2/13	2/13/2021	0.92 J 0.92	0.014	2/8/2021	6.6		ND (<0.25)	4.4	57	1,100	10	28	429		0.25	3.8		0.45	6.9	2/10/2021	ND (<5.0)	2.5	36
2/14 - 2/20	2/20/2021	ND (<0.31) 0.16	0.0023	2/15/2021	6.5		ND (<0.25)	2.9	76	930	0.16	22	330		0.16	2.4		0.38	5.7	2/17/2021	38		569
2/21 - 2/27	2/27/2021	0.96 J 0.96	0.0140	2/22/2021	6.7		ND (<0.25)	ND (<0.85)	100	1,200	0.19	21	316		0.16	2.4		0.34	5.1	2/24/2021	ND (<5.0)	2.5	37
2/28 - 3/6 2/7 - 3/13	3/6/2021 3/13/2021	ND (<0.31) 0.16 ND (<0.31) 0.16		3/2/2021 3/8/2021	6.6 6.6		ND (<0.25) ND (<0.25)	1.1 2.2	96 110	570 760	1.4 0.21	11 20	155 286		0.30 0.21	4.2 3.0		0.34 0.37	4.8 5.3	3/4/2021 3/10/2021	ND (<5.0) ND (<5.0)	2.5 2.5	38 37
3/14 - 3/20	3/20/2021	ND (<0.31) 0.10 ND (<0.31) 0.16		3/15/2021	6.5		ND (<0.25)	ND (<0.85)	78	700	0.46	20	316		0.21	3.3		0.63	9.5	3/17/2021	ND (<5.0) ND (<5.0)	2.5	37
3/21 - 3/27	3/27/2021	ND (<0.31) 0.16		3/22/2021	6.9		ND (<0.25)	ND (<0.85)	53	1,100	ND (<0.050)	18	271	ND(<0.039)	0.020	0.29		0.55	8.3	3/24/2021	15	-	228
3/28 - 4/3	4/3/2021	ND (<0.31) 0.16		3/29/2021	6.6		ND (<0.25)	ND (<0.85)	61	840	0.25	ND(<10) 5	74		0.13	1.9		0.34	5.0	3/31/2021	ND (<5.0)	2.5	37
4/4 - 4/10	4/10/2021	10 10	0.14	4/5/2021	6.6		ND (<0.25)	1.1	38	880	0.22	ND(<10) 5	74		0.16	2.4		0.37	5.5	4/7/2021	ND (<5.0)	2.5	37
4/11 - 4/17	4/17/2021	ND (<0.31) 0.16		4/12/2021			ND (<0.25)	ND (<0.85)	30	920	0.24	13	194		0.14	2.1		0.33	4.9	4/14/2021	ND (<5.0)	2.5	37
4/18 - 4/24 4/25 - 5/1	4/24/2021 5/1/2021	ND (<0.31) 0.16 24 24	0.0022 0.35	4/19/2021 4/27/2021	7.0		ND (<0.25) ND (<0.25)	1.2 ND (<0.85)	49 72	940 790	0.29 0.23	ND(<10) 5 ND(<10) 5	75 75		0.15 0.15	2.2 2.3		0.33 0.35	4.9 5.3	4/21/2021 4/28/2021	ND (<5.0) ND (<5.0)	2.5 2.5	37 38
5/2 - 5/8	5/8/2021	ND (<0.31) 0.16		5/3/2021	6.8		ND (<4.0)	ND (<0.85)	54	950	0.33	ND(<10) 5	59		0.19	2.3		0.31	3.7	5/5/2021	ND (<5.0)	2.5	25
5/9 - 5/15	5/15/2021	ND (<0.31) 0.16		5/11/2021	6.7		ND (<0.25)	<0.85 <0.85	72	970	0.56	15	217		0.44	6.4		0.38	5.5	5/12/2021	ND (<5.0)	2.5	37
5/16 - 5/22	5/22/2021	ND (<0.31) 0.16	0.0021	5/17/2021	6.9		ND (<0.25)	3.7	100	1,700	0.14	23	301		0.11	1.4		0.079	1.0	5/19/2021	ND (<5.0) ⁺⁺	2.5	37
5/23 - 5/29	5/29/2021	ND (<0.31) 0.16		5/24/2021	6.5		ND (<0.25)	4.7	98	790	0.21	20	295		0.090	1.3		0.17	2.5	5/26/2021	ND (<5.0)	2.5	37
5/30 - 6/5	6/5/2021	ND (<0.31) 0.16		6/1/2021	6.6		ND (<0.25)	2.1	77	690	0.33	12	180		0.15	2.2		0.41	6.1	6/2/2021	ND (<5.0) ⁺	2.5	37
6/6 - 6/12 6/13 - 6/19	6/12/2021 6/19/2021	ND (<0.31) 0.16 ND (<0.31) 0.16		6/7/2021 6/14/2021	6.6 6.6		ND (<0.20) ND (<0.20)	1.6 1.7	78 61	990 960	0.22 0.69	16 23	237 343		0.065 0.11	1.0 1.6		0.10 0.53	1.5 7.9	6/9/2021 6/16/2021	ND (<5.0) ND (<5.0)	2.5 2.5	37 35
6/20 - 6/26	6/26/2021	ND (<0.31) 0.10 ND (<0.31) 0.16		6/21/2021	6.5		ND (<0.20) ND (<0.20)	ND (<0.85)	50	530	0.35	15	222		0.11	1.8		0.35	5.3	6/23/2021	ND (<5.0) ND (<5.0)	2.5	30
6/27 - 7/3	7/3/2021	ND (<0.31) 0.16		6/28/2021	6.5		ND (<0.20)	1.4	54	860	0.52	11	164		0.12	1.8		0.52	7.8	6/30/2021	ND (<5.0)	2.5	30
7/4 - 7/10	7/10/2021	ND (<0.31) 0.16	0.0022	7/6/2021	6.7		ND (<0.20)	1.9	55	630	0.27	20	205		0.084	0.86		0.31	3.2	7/7/2021	ND (<5.0)	2.5	37
7/11 - 7/17	7/17/2021	ND (<0.31) 0.16		7/12/2021	6.6		ND (<0.20)	0.94	45	750	0.22	ND(<10) 5	66		0.058	0.76		0.28	3.7	7/14/2021	ND (<5.0)	2.5	37
7/18 - 7/24 7/25 - 7/31	7/24/2021 7/31/2021	ND (<0.31) 0.16		7/20/2021 7/27/2021	6.6		ND (<0.20)	14 2.7	100 50	1,500 1 100	0.50	45 11	404 171	 ND(<0.030)	0.22	2.0 0.30		0.45 0.43	4.0 6.7	7/21/2021	ND (<5.0)	2.5	34 38
7/25 - 7/31 8/1 - 8/7	7/31/2021 8/7/2021	ND (<0.31) 0.16 ND (<0.31) 0.16		8/2/2021	7.0		ND (<0.25) ND (<0.20)	1.2	50 36	1,100 1,900	ND (<0.050) 0.67	<u>11</u> 29	171 445	ND(<0.039)	0.020	6.1		0.43	6.7 14	7/28/2021 8/4/2021	ND (<5.0) ND (<5.0)	2.5 2.5	38 37
8/8 - 8/14	8/14/2021	ND (<0.31) 0.16		8/9/2021	6.5		ND (<0.20)	2.5	91	730	0.50	16	238		0.14	2.1		0.42	6.3	8/11/2021	ND (<5.0)	2.5	31
8/15 - 8/21	8/21/2021	ND (<0.31) 0.16		8/17/2021	6.5		ND (<0.20)	1.8	110	860	0.39	ND(<10) 5	60		0.17	2.0		0.33	4.0	8/18/2021	ND (<2.0)	1.0	13
8/22 - 8/28	8/28/2021	ND (<0.31) 0.16		8/23/2021	6.5		ND (<0.20)	3.7	99	530	0.27	12	175		0.21	3.1		0.32	4.7	8/25/2021	ND (<5.0)	2.5	37
8/29 - 9/4	9/4/2021	NA NA	NA	8/30/2021 9/6/2021	6.7 NA		ND (<0.20)	ND (<0.85) NA	100	640	0.32	21 NA	313		0.13	1.9		0.23 NA	3.4 NA	9/1/2021 9/8/2021	ND (<5.0)	2.5	37 NA

Note: All analytical responsibilities are performed by TestAmerica Laboratories, Inc. (TestAmerica) in Irvine, California, unless otherwise indicated. ⁺ An additional sample was collected this week.

⁺⁺ Sample result has quality control (QC) qualifiers. CBOD was detected in the control blank and therefore the laboratory control sample (LCS) is outside acceptance limits. NA = Not Available To Date

ND = Not Detected above laboratory reporting limit; concentration in adjacent cell to right is one-half the reporting limit (per Permit condition)

-- = Analyte detected; see column adjacent to right

* Total phosphorus discharge limitation of 10 lbs/day applies between March 1 and October 31; Ammonia discharge limitation of 20 lbs/day applies between April 1 and September 30; no limits apply the rest of the year. Last Updated: September 10, 2021

		Quarterly
		Total Dissolved Solids (TDS)
۶ ۱		Daily Max. (mg/L)
y)		8,000
		3,900
		3,600
		3,600
y	Sample Date	mg/L
	2/2/2021	3,900
	5/12/2021	3,600
	8/17/2021	3,600

WORKING TRACKING SPREADSHEET DRAFT - NOT TO BE SUBMITTED TO AGENCY

Attachment B

Equipment Tracking Form

Sub- System	P&ID	Description	Status ¹	Checked	Criticality ²	Notes
		Main Plant Equipment				
1		Seep Wells and Lift Station 1				
1.01		Seep Well Field, 9 wells	Running		3	Replaced the transducer on PC 99R3
1.02		Lift Station 1 Lift Pump A				
1.03		Lift Station 1 Lift Pump B	Standby			
1.04		Area in and around Lift Station 1	Running			
2		Athens Road Wells and Lift Station 3				
2.01		Athens Road Well Field, 9 wells	Running			
2.02		Lift Station 3 Lift Pump A	Standby			
2.03		Lift Station 3 Lift Pump B	Running			
2.04		Area in and around Lift Station 3	Running		1	Shut off power to the main cabinet to replace the fuses for the run command to the wells. Changed out the I/O card on the PLC rack.
3		Lift Station 2 and Transmission Pipelines				
3.01		Influent Pipeline	In operation			
3.02		Effluent Pipeline	Running			
3.03		Lift Station 2 Lift Pump A	Running			
3.04		Lift Station 2 Lift Pump B				
3.05		Area in and around Lift Station 2	Running			
4		Interceptor Wells and Cr Treatment Plant				
4.01		IWF Well Field, 30 wells	Running		3	Replaced the fuse for the run command on I-V. Reset the auto dialer for the AP-5 wells. Cleaned off the sensors for the plot 2 leak detection.
4.02		Ferrous Sulfate Feed System	Running			
4.03		Polymer Feed System	Running			
4.04		Clarifier	In operation			
4.05		Filter Press	Running		3	Installed new air ends on the pump. Changed out the press cylinder.
4.06		GWTP Effluent Tank	In operation			
4.07		Interceptor Booster Pump A	Running			
4.08		Interceptor Booster Pump B	Standby			
4.09		Area In And Around GWTP				
5		Equalization Area and GW-11 Pond				
5.01	PID10A	Pond GW-11	In operation			
5.02	PID10A	Pond Water Pump - P101A	Running			
5.03	PID10A					
5.04	PID10A	Equalization Tanks	In operation			

Running - Unit is in operation

Standby - Spare or duplicate, not currently in operation

Off - Not currently needed for use, but can be placed in service

Maintenance - Out of service for maintenance

Criticality Codes

1= Critical - Cannot continue with operation until repairs made

2 = Important - Can still operate safely and in compliance with permits, but risks are increased

3 = Moderate - Work needs to be performed, but plant can still operate with redundancy that is in place

Sub- System	P&ID	Description	Status ¹	Checked	Criticality ²	Notes
5.05	PID10A	Area in and Around EQ	In operation			
5.06	PID10A	Raw Water Feed Pump - P102A				
5.07	PID10A	Raw Water Feed Pump - P102B				
5.08	PID10A		Running			
5.09	PID10B		Running			
5.10	PID10B					
5.11	PID10B	Carbon Absorber - LGAC 201C	Running			
6		First Stage FBRs A, 1 & 2				
6.01	PID14	FBR A			3	Replaced the air fitting on the air supply that goes to the top of the FBR's.
6.02	PID14	Separator Tank - 1401				
6.03	PID14	Media Return Pump - P 1401				
6.04	PID14	P1401A				
6.05	PID01A					
6.06	PID01A	FBR 1	Running			
6.07	PID02A	FBR 2	Running			
6.08	PID01A	First Stage Separator Tank - T2011	Running		3	Set up the 3" AOD to transfer the solids from the separator to FBR1.
6.09	PID01A	Media Return Pump - P2011	Running			
6.10	PID01A	First Stage FBR Pump - P1011	Standby			
6.11	PID01A	First Stage FBR Pump - P1012				
6.12	PID01A	First Stage FRB Pump - P101A	Running			
6.13	PID07A	FBR A pH Feed Pump - P71A	Off			
6.14	PID07A	FBR 1 pH Feed Pump - P711	Off			
6.15	PID07A	FBR 2 pH Feed Pump - P712	Off			
6.16	PID07A	FBR A Nutrient (Urea) Feed Pump - P72A	Off			
6.17	PID07A	FBR 1 Nutrient (Urea) Feed Pump - P721	Off			
6.18	PID07A		Off			
6.19	PID15					
6.20	PID15		-			
6.21	PID15					
6.22	PID07B					
6.23	PID07B	, 1				
6.24	PID07B		Running			
7		First Stage FBRs 3 & 4				
7.01	PID01B		Running			Replaced the I/P on the positioner for the feed valve.
7.02	PID01B	FBR 4	Running		2	Replaced the I/P on the positioner for the feed valve.

Running - Unit is in operation

Criticality Codes

1= Critical - Cannot continue with operation until repairs made

2 = Important - Can still operate safely and in compliance with permits, but risks are increased

 Standby - Spare or duplicate, not currently in operation
 2 = 1

 Maintenance - Out of service for maintenance
 3 =

 Off - Not currently needed for use, but can be placed in service
 4 = 1

3 = Moderate - Work needs to be performed, but plant can still operate with redundancy that is in place

Sub- System	P&ID	Description	Status ¹	Checked	Criticality ²	Notes
7.03	PID02B	First Stage Separator Tank - T2012	Running			
7.04	PID01B	Media Return Pump - P2012	Running		3	Changed out the pump for faulty check flaps.
7.05	PID01B	First Stage FBR Pump - P1013	Running			
7.06	PID01B	First Stage FRB Pump - P1014	Running			
7.07	PID01B	First Stage FBR Pump - P102A	Running			
7.08	PID07A	FBR 3 pH Feed Pump - P713	Running			
7.09	PID07A	FBR 4 pH Feed Pump - P714	Running			
7.10	PID07A	FBR 3 Nutrient (Urea) Feed Pump - P723				
7.11	PID07A	FBR 4 Nutrient (Urea) Feed Pump - P 724	Off			
7.12	PID15	FBR 3 Nutrient (Phos Acid) Feed Pump - P1523	Running			
7.13	PID15	FBR 4 Nutrient (Phos Acid) Feed Pump - P1524	Running			
7.14	PID07B	FBR 3 Electron Donor Assembly Pump - P733	Running			
7.15	PID07B	FBR 4 Electron Donor Assembly Pump - P734	Running			
8		Second Stage FBRs 5 & 6				
8.01	PID03A	FBR 5	Running			
8.02	PID03A		Running			
8.03	PID03C	Second Stage Separator Tank - T3011	Running			
8.04	PID03A	Media Return Pump - P3011	Running			
8.05	PID03A	Second Stage FBR Pump - P3015	Running			
8.06	PID03A	Second Stage FBR Pump - P3016	Standby			
8.07	PID03A	Second Stage FBR Pump - P301A	Running			
8.08	PID07A	FBR 5 pH Feed Pump - P715	Off			
8.09	PID07A	FBR 6 pH Feed Pump - P716	Off			
8.1	PID07A	FBR 5 Nutrient (Urea) Feed Pump - P725	Off			
8.11	PID07A					
8.12	PID07B	FBR 5 Electron Donor Assembly Pump - P735	Running			
8.13	PID07B	FBR 6 Electron Donor Assembly Pump - P736	Running			
9		Second Stage FBRs 7 & 8				
9.01	PID03B		Running			
9.02	PID03B		Running			
9.03	PID03D	ů l				
9.04	PID03B					
9.05	PID03B	ş î				
9.06	PID03B	° .				
9.07	PID03B	° .				
9.08	PID07A	FBR 7 pH Feed Pump - P717	Off			
9.09	PID07A	FBR 8 pH Feed Pump - P718	Off			

Running - Unit is in operation

Criticality Codes

1= Critical - Cannot continue with operation until repairs made

2 = Important - Can still operate safely and in compliance with permits, but risks are increased

Standby - Spare or duplicate, not currently in operation Maintenance - Out of service for maintenance Off - Not currently needed for use, but can be placed in service

3 = Moderate - Work needs to be performed, but plant can still operate with redundancythat is in place 4 = Low - Minor repairs that in no way alter the performance of the plant

Sub- System	P&ID	Description	Status ¹	Checked	Criticality ²	Notes
9.10	PID07A	FBR 7 Nutrient (Urea) Feed Pump - P727	Off			
9.11	PID07A	FBR 8 Nutrient (Urea) Feed Pump - P728	Off			
9.12	PID07B	FBR 7 Electron Donor Assembly Pump - P737	Running			
9.13	PID07B	FBR 8 Electron Donor Assembly Pump - P738	Running			
10		Aeration and DAF System				
10.01	PID04	Aeration Tank	In operation			
10.02	PID04	Aeration Blower - B401	Running			
10.03	PID04	Bio filter	In operation			
10.04	PID04	Nutrient Solution	Running			
10.05	PID04	Bio filter Sump				
10.06	PID04	Nutrient Pump - P401	Running			
10.07	PID04	Bio filter Sump Pump - P402A	Standby			
10.09	PID04	Bio filter Blower	Running			
10.10	PID05	DAF Pressure Tanks	In operation		1	Welded a patch on the piping coming off the pressure tank to the sight glass.
10.11	PID05	DAF Vessel - D501	Running			
10.12	PID05	DAF Pressure Pump - P501	Running			
10.13	PID05	DAF Float Pump - P502	Running			
10.14	PID05	DAF Vessel - D551	Running			
10.15	PID05	DAF Pressure Pump - P551	Running			
10.16	PID05	DAF Float Pump - P552	Running			
10.17	PID05	Screw Conveyer Drive	Standby			
10.18	PID05	Skimmer Drive	Running			
11		Pumping System (Old Effluent)				
11.01	PID06	Effluent Tank 601	In operation			
11.02	PID06	Effluent Pump - P601	Running		4	Installed new shims on the new pump and motor to level the connection to the pump end.
11.03	PID06	Effluent Pump - P602				
12		Sand Filter System				
12.01	PID17	Sand Filter			3	Replaced 2 airlifts with rebuilt ones.
12.02	PID17	Filter Reject Tank	-		2	Bypassed the sand filter to remove solids from the reject tank and put the sand back in the sand filter.
12.03	PID17	Filter Reject Pump - P1701A				
12.04	PID17	Filter Reject Pump - P1701B	Running			
13		Effluent Tank and Pumping				
13.01	PID10C	UV Effluent Tank	0			
13.02	PID10C	Effluent Booster Pump - P1302A	Running			

Running - Unit is in operation

Criticality Codes

1= Critical - Cannot continue with operation until repairs made

2 = Important - Can still operate safely and in compliance with permits, but risks are increased

Standby - Spare or duplicate, not currently in operation Maintenance - Out of service for maintenance Off - Not currently needed for use, but can be placed in service

3 = Moderate - Work needs to be performed, but plant can still operate with redundancy that is in place

Sub- System	P&ID	Description	Status ¹	Checked	Criticality ²	Notes
13.03	PID10C	Effluent Booster Pump - P1302B	Standby			
13.04	PID10C	Area Around Effluent and North D-1	Running			
14		Solids Collection and Pressing System				
14.01	PID16	Sludge Storage Tank	In operation			
14.02	PID16	Solids Storage Effluent Pump - P1601	Running			
14.03	PID16	Solids Cond. Tank	In operation			
14.04	PID09	Sludge Mixer	Running			
14.05	PID09	Filter Press Pump - P901	Running			
14.06	PID09	Filter Press Pump - P902				
14.07	PID09	West Press	Standby		1	The press is offline to pressure wash and make repairs.
14.08	PID09	East Press	Running			
14.09	PID09	Filtrate Tank	In operation			
14.10	PID09	Filtrate Tank Effluent (recycle) Pump - P903	Running			
		Chemical Systems				
15		Electron Donor System				
15.01	PID07B	Electron Donor Tank	In operation			
15.02	PID07B	Booster Pump P739A	Running			
15.03	PID07B	Booster Pump P739B	Standby			
17	PID07C	Micro Nutrient System	In operation			
18	PID07C	Hydrogen Peroxide System	In operation		2	Replaced the suction hose on the tote that feeds the pump.
19	PID07C	De-Foam System	In operation			
20	PID15	Nutrient (Phosphoric Acid) System (Tank only - pumps included in FBRs)	In operation			
21	PID07A	Nutrient (Urea) System (Tank only - pumps included in FBRs)	In operation			
22	PID07A	pH System Tank and effluent pH feed pump only - other pumps) included in FBRs)	In operation			
23	PID07C	Ferric Chloride				
24	PID07B	Polymer Systems - DAF	In operation		3	Cleared solids from the pump head of the east pump.
25	PID09	Polymer System - Solids Dewatering (2 tanks, 2 centrifugal pumps, mixer, volumetric feeder)	In operation		3	Reset the transfer pump and got it running in auto.
		Utility Systems				
26		Compressed Air System				
26.01	PID08	West Compressor	Running			
26.02	PID08	East Compressor	Running		2	The compressor is offline to make repairs to the oil cooler system.

Running - Unit is in operation

Criticality Codes

1= Critical - Cannot continue with operation until repairs made

2 = Important - Can still operate safely and in compliance with permits, but risks are increased

 Standby - Spare or duplicate, not currently in operation
 2 = Ir

 Maintenance - Out of service for maintenance
 3 = I

 Off - Not currently needed for use, but can be placed in service
 4 = L

3 = Moderate - Work needs to be performed, but plant can still operate with redundancy that is in place

Sub- System	P&ID	Description	Status ¹	Checked	Criticality ²	Notes
26.03	PID08	O2 Compressor	Running			
26.04	PID08	Compressed Air Receiver Tank	In operation			
26.05	PID08	Air Dryer	,		3	The air dryer was bypassed to replace the air filter on the suction of the dryer.
26.06	PID08	Oil Removal Filter	In operation			
26.07	PID08	Particulate Filter	In operation			
27	PID16	Oxygen System	In operation			
28		GWETS Plant Controls/ Siemens Controls	In operation			
29		Well Control System/ Allen Bradley Controls	In operation			
30		MCC FBR Pad	In operation			
31		MCC in D-1	In operation			
32		MCC in EQ area	In operation			
		Miscellaneous Systems				
33		Operations Office/Network	In operation			
34		Laboratory Analyzers	In operation			
35		Security Systems	In operation			
		Shelf Spares				
		Media Return Pump Rebuild Kit	In stock			
		pH Feed Pump	In stock			
		Nutrient Feed Pump				
		Electron Donor Feed Pump	In stock			
		Phosphoric Acid Feed Pump	In stock			
		Interceptor Well Pumps (4 each)	In stock			
		Seep Well Pump (1 each, same as Athens so total of 2)	In stock			
		Athens Road Well Pump (1 each, same as Seep so total of 2)	In stock			

Running - Unit is in operation

Standby - Spare or duplicate, not currently in operation

Off - Not currently needed for use, but can be placed in service

Maintenance - Out of service for maintenance

Criticality Codes

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