Outfall Number	Outfall Description	Maximum Daily Value Flow Rate (kcfs?)	BOD mass (lbs)	BOD conc (mg/L)	TSS mass (lbs)	TSS conc (mg/L)	Fecal mass (lbs)	Fecal conc (mg/L)	TRC mass (lbs)	TRC conc (mg/L)	Oil and Grease mass (lbs)	Oil and Grease conc (mg/L)	COD mass (lbs)	COD conc (mg/L)	TOC mass (lbs)	TOC conc (mg/L)	Ammonia mass (lbs)	Ammonia conc (mg/L)	Discharge Flow (cfs)	pH	Winter temp (C)	Summer Temp (C)
1	Fish Unit #2 Non-contact cooling water	1.15	0	nd	41	4	NA	NA	NA	NA	0	nd	0	nd	14	1.5	0	nd	800	7.9	-	23.8
2	Fish Unit #1 Non-contact cooling water	1.15	0	nd	317	33	NA	NA	NA	NA	0	nd	0	nd	14	1.5	0	nd	800	8.1	-	24.3
3	CAC2	1.87	0	nd	203	13	NA	NA	NA	NA	0	nd	0	nd	23	1.5	0	nd	1300	8.1	-	22.2
4a	MU18 Non-Contact Cooling Water	0.94	0	nd	15	2	NA	NA	NA	NA	0	nd	0	nd	12	1.5	0	nd	650	8.1	-	22.7
4b	MU 18 Thrust Bearing Cooling Water	1.01	0	nd	28	3	NA	NA	NA	NA	0	nd	0	nd	13	1.5	2.44	0.29	700	8.1	-	22.6
5a	MU17 Non-Contact Cooling Water	0.94	0	nd	14	2	NA	NA	NA	NA	0	nd	0	nd	12	1.5	0	nd	650	8	-	21.8
5b	MU 17 Thrust Bearing Cooling Water	1.01	0	nd	13	2	NA	NA	NA	NA	0	nd	0	nd	12	1.4	0	nd	700	8	-	21.8
6a	MU16 Non-Contact Cooling Water	0.94	0	nd	0	nd	NA	NA	NA	NA	0	nd	0	nd	13	1.7	0	nd	650	8.1	-	16.6
6b	MU 16 Thrust Bearing Cooling Water	1.01	19	2.3	0	nd	NA	NA	NA	NA	0	nd	0	nd	19	2.3	0	nd	700	8	-	15.4
7a	MU15 Non-Contact Cooling Water	0.94	0	nd	31	4	NA	NA	NA	NA	0	nd	0	nd	13	1.7	0	nd	650	8.1	-	22.7
7b	MU 15 Thrust Bearing Cooling Water	1.01	0	nd	12	1	NA	NA	NA	NA	0	nd	0	nd	13	1.5	0	nd	700	8.1	-	22.3
8a	MU14 Non-Contact Cooling Water	0.94	16	2	14	2	NA	NA	NA	NA	0	nd	0	nd	14	1.8	0	nd	650	8.1	-	23.1
8b	MU 14 Thrust Bearing Cooling Water	1.01	31	3.7	12	1	NA	NA	NA	NA	0	nd	0	nd	24	2.9	0	nd	700	8.1	-	23.1
9a	MU13 Non-Contact Cooling Water	0.94	0	0	16	2	NA	NA	NA	NA	0	nd	0	nd	13	1.7	0	nd	650	8.1	-	22.9
9b	MU 13 Thrust Bearing Cooling Water	1.01	23	2.7	27	3	NA	NA	NA	NA	0	nd	0	nd	19	2.3	0	0	700	8.1	-	23
10a	MU12 Non-Contact Cooling Water	0.94	0	0	12	2	NA	NA	NA	NA	0	nd	0	nd	12	1.5	0	0	650	8.1	-	19.3
10b	MU 12 Thrust Bearing Cooling Water	1.01	0	0	109	13	NA	NA	NA	NA	0	nd	0	nd	13	1.6	0	nd	700	8.1	-	22.8
11a	MU11 Non-Contact Cooling Water	0.94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	650		-	
11b	MU 11 Thrust Bearing Cooling Water	1.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700		-	
12	OWS	-	0	nd	7	1	0	nd	0	nd	0	nd	0	nd	0	nd	0	nd	600	7.7	-	17.8
13	CAC1	-	0	nd	156	10	0	nd	0	nd	0	nd	0	nd	27	1.7	0	nd	1300	8.1	-	20.6
14	Unwatering Sump	-	0	nd	34	6	0	nd	0	nd	0	nd	0	nd					7000	7.6	-	16.4
15	Drainage Sump	-			11	6	0	nd	0	nd	0	nd	0	nd	2	1.2	0	nd	3000	7.5		16.2
		Average	4	1.5	51	5.8	0.0	NA	0.0	NA	0.0	NA	0.0	NA	14	1.7	0.1	0.1	1113	8.0	-	21.0
		Minimum	0	0.0	0	1.0	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0	1.2	0.0	0.0	600	7.5	-	15.4
		Maximum	31	3.7	317	33.0	0.0	NA	0.0	NA	0.0	NA	0.0	NA	27	2.9	2.44	0.29	7000	8.10	-	24.30
	SIG FIGS		2	0	1	0	0								0	1	2	2	0	1		1

Outfall #	Outfall description	Maximum Daily Flow	BOD	COD	TOC	TSS	Ammonia	Flow	Temp (winter)	Temp(summer)	pH (min)	pH (max)	temp (C, sinter)
1	Unwatering sump	9	ND	10	1.72	2.5	ND	6250	60		6.5	8.5	15.55556
2	Drainage sump	1.44	ND	10	1.28	1.5	ND	1000	66		6.5	8.5	18.88889
3	MU 1&2 Non-Contact Cooling Water	1.44	ND	10	1.73	3	ND	1700	68		6.5	8.5	20
4	MU 3&4 Non-Contact Cooling Water	2.448	ND	ND	2.06	6.5	ND	1700	66		6.5	8.5	18.88889
5	MU 5&6 Non-Contact Cooling Water	2.448	ND	ND	1.8	3.5	ND	1700	67		6.5	8.5	19.44444
6	MU 7&8 Non-Contact Cooling Water	2.448	ND	ND	1.52	3.5	ND	1700	66		6.5	8.5	18.88889
7	MU 9&10 Non-Contact Cooling Water	2.448	ND	ND	1.59	3.5	ND	1700	67		6.5	8.5	19.44444
8	MU 11&12 Non-Contact Cooling Water	2.448	ND	ND	1.7	5.5	ND	1700	66		6.5	8.5	18.88889
9	MU 13&14 Non-Contact Cooling Water	2.448	ND	ND	1.63	3.5	ND	1700	65		6.5	8.5	18.33333
10	MU 15&16 Non-Contact Cooling Water	2.448	ND	ND	1.64	4.5	ND	1700	66		6.5	8.5	18.88889
11	MU 17&18 Non-Contact Cooling Water	2.448	ND	ND	1.39	24	ND	1700	68		6.5	8.5	20
12	MU 19&20 Non-Contact Cooling Water	2.448	ND	ND	1.32	9.5	ND	1700	68		6.5	8.5	20
13	MU 21&22 Non-Contact Cooling Water	2.448	ND	ND	1.2	5.5	ND	1700	67		6.5	8.5	19.44444
14	***Fish Units 1 &2 Cooling Water***	0.4392	ND	ND	1.46	3	ND	305	67		6.5	8.5	19.44444
15	***South Spillway Sump***	0.036	ND	ND	1.08	0.5	ND	25	60		6.5	8.5	15.55556
16	***North Spillway Sump***	0.0072	ND	ND	1.17	5.5	ND	5	66		6.5	8.5	18.88889
17	Navigation Lock Drainage Sump	0.00144	ND	ND	1.16	1	ND	1	67		6.5	8.5	19.44444
18	Transformer Cooling Water #1	1.872	ND	ND	2.7	4	ND	1300	54		6.5	8.9	12.22222
19	Transformer Cooling Water #2	1.872	ND	ND	2.5	6	ND	1300	53		6.8	8.9	11.66667
20	Transformer Cooling Water #3	1.872	ND	ND	2.3	ND	ND	1300	53		6.8	8.9	11.66667
21	Transformer Cooling Water #4	1.872	ND	220	1.8	4	ND	1300	73		6.8	8.9	22.77778
22	Transformer Cooling Water #5	1.872	ND	ND	2.2	2	ND	1300	54		6.8	8.9	12.22222
23	Transformer Cooling Water #6	1.872	ND	ND	2.3	6	ND	1300	54		6.8	8.9	12.22222
24	Transformer Cooling Water #7	1.872	ND	ND	2	2	ND	1300	55		6.8	8.9	12.77778
25	Transformer Cooling Water #8	1.872	ND	ND	2.4	2	ND	1300	55		6.8	8.9	12.77778
26	Transformer Cooling Water #9	1.872	ND	ND	2.1	4	ND	1300	54		6.8	8.9	12.22222
27	Transformer Cooling Water #10	1.872	ND	ND	2.2	8	ND	1300	54		6.8	8.9	12.22222
28	Transformer Cooling Water #11	1.872	ND	ND	2.1	10	ND	1300	54		6.8	8.9	12.22222
29	Transformer Cooling Water #12	1.872	ND	ND	2.1	8	ND	1300	53		6.8	8.9	11.66667
30	Transformer Cooling Water #13	1.872	ND	ND	2	8	ND	1300	53		6.8	8.9	11.66667
31	Transformer Cooling Water #14	1.872	3.1	ND	2.3	8	ND	1300	53		6.8	8.9	11.66667

			BOD conc	TSS mass	TSS conc	Fecal mass	Fecal conc	TRC mass	TRC conc	Oil and Greas	Oil and Gre	COD mass	COD conc	TOC mass	TOC conc	Ammonia r	Ammonia c	Discharge I	pH		Winter terr	Summer Te	Summer Temp
32	Station Service 01 & 02 Cooling Water	0.2088		nd	0	nd	na	na	na	na	0	nd	13.21	11	1.92	1.6	0.38	0.32	145	7.32	12.8		
33	Transformer T04 Cooling Water	0.1728	0	nd	0	nd	na	na	na	na	0	nd	0	nd	1.2	1.01	0	nd	120	7.83	13.4		
34	Transformer T01 Cooling Water	0.1728	0	nd	0	nd	na	na	na	na	0	nd	0	nd	1.1	0.92	0	nd	120	7.61	17.3		
35	Auxiliary Water Pump	0.072																					

	53.1216	BOD	COD	TOC	TSS	Ammonia	Temperature (winter)
average	average	3.1	52.2	1.764118	5.283333	0.32	15.98529
min	minimum	3.1	10	0.92	0.5	0.32	11.66667
max	max	3.1	220	2.7	24	0.32	17.3

Outfall Number	Outfall Description	Maximum Daily Value Flow Rate (kcfs?)	BOD mass (lbs)	BOD conc (mg/L)	TSS mass (lbs)	TSS conc (mg/L)	Fecal mass (lbs)	Fecal conc (mg/L)	TRC mass (lbs)	TRC conc (mg/L)	Oil and Grease mass (lbs)	Oil and Grease conc (mg/L)	COD mass (lbs)	COD conc (mg/L)	TOC mass (lbs)	TOC conc (mg/L)	Ammonia mass (lbs)	Ammonia conc (mg/L)	Discharge Flow (cfs)	pH	Winter temp (C)	Summer Temp (C)
18	Main Unit (MU) 15 Non-contact cooling water	2.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	nd	NA	NA	NA	NA	NA	NA	1500	7.9	-	24.2
19	MU 16 Non-contact Cooling Water	2.16	0	nd	31	2	NA	NA	NA	NA	0	nd	0	nd	31	1.7	2.16	0.12	1500	7.9	-	23.8
20	Unwatering Sump Pump 3	14.40	0	nd	288	2	NA	NA	0	nd	0	nd	0	nd	216	1.8	0	nd	8800	7.6	-	18.7
21	Unwatering Sump Pump 4	14.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	nd	NA	NA	NA	NA	NA	NA	8800		-	
23	Central Non-Overflow (CNO) Pump 9	3.60	0	nd	0	nd	NA	NA	NA	NA	NA	nd	NA	NA	36	1.2	0	nd	2500	7.4	-	20.6
24	Central Non-Overflow (CNO) Pump 10	3.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	Central Non-Overflow (CNO) Pump 11	3.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26	Spillway Drainage Sump Pumps 8, 8A		0	nd	0	nd	NA	NA	NA	NA	NA	nd	NA	NA	10	1.1	0	nd	750	7.8	-	18.3
27	Nav Lock Fill Valve Tainter 4	2.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	nd	NA	NA	NA	NA	NA	NA	1500		-	
28	Nav Lock Drainage Sump 3	4.32	198	5.5	43	1	NA	NA	NA	NA	0	nd	0	nd	94	2.6	0	nd	3000	7.6	-	18.7
29	Nav Lock Pump 4	0.22	0	nd	0	nd	NA	NA	NA	NA	0	nd	0	nd	2	1.2	0.54	0.3	150	7.5	-	17.3
43	Powerhouse HVAC Cooling Water	0.17	0	nd	9	6	NA	NA	NA	NA	1	nd	1	nd	2	1.7	0	nd	120/pump	7.9	-	23.6
		Average	28	5.5	53	2.8	NA	NA	0.0	NA	0.2	NA	0.2	NA	56	1.6	0.4	0.2	3167	7.7	-	20.7
		Minimum	0	5.5	0	1.2	NA	NA	0.0	NA	0.0	NA	0.0	NA	2	1.1	0.0	0.1	150	7.4	-	17.3
		Maximum	198	5.5	288	5.9	NA	NA	0.0	NA	1.0	NA	1.0	NA	216	2.6	2.16	0.30	8800	7.9	-	24.2

Outfall #	Outfall Description	Maximum Daily Value Flow Rate (kcfs?)	BOD mass (lbs)	BOD conc (mg/L)	BOD mass (lbs)	BOD conc (mg/L)	TSS mass (lbs)	TSS conc (mg/L)	TSS mass (lbs)	TSS conc (mg/L)	Fecal mass (lbs)	Fecal conc (mg/L)	TRC mass (lbs)	TRC conc (mg/L)	Oil and Grease mass (lbs)	Oil and Grease conc (mg/L)	Oil and Grease mass (lbs)	Oil and Grease conc (mg/L)	COD mass (lbs)	COD conc (mg/L)	COD mass (lbs)	COD conc (mg/L)	TOC mass (lbs)	TOC conc (mg/L)	TOC mass (lbs)	TOC conc (mg/L)	Ammonia mass (lbs)	Ammonia conc (mg/L)	Ammonia mass (lbs)	Ammonia conc (mg/L)	Discharge Flow (cfs)	pH	Winter temp (C)	Summer Temp (C)
21	XX	XX	7.6	2.1	2.6	2.1	21.6	6	7.2	6	NA	NA	0	<0.05	0	<1	0	<1	25.8	7.16	8.6	7.16	6.02	1.67	6.02	1.67	0.27	0.0745	0	0.0745	300	7.5-8.5	-	19.1
22	XX	XX	15.1	4.2	5	4.2	3.6	1	1.2	1	NA	NA	0	<0.05	4	1.1	1.3	1.1	0	<5	0	<5	9.94	2.76	3.32	2.76	0.271	0.074	0	0.074	300		-	20.3
		Average	11.35	3.15	3.8	3.15	12.6	3.5	4.2	3.5	NA	NA	0	<0.05	2	1.1	0.65	1.1	12.9	7.16	4.3	7.16	7.98	2.215	4.67	2.215	0.2705	0.07425	0	0.07425	300		-	19.7
		Minimum	7.6	2.1	2.6	2.1	3.6	1	1.2	1	NA	NA	0	<0.05	0	<1	0	<1	0	<5	0	<5	6.02	1.67	3.32	1.67	0.27	0.074	0	0.074	300		-	19.1
		Maximum	15.1	4.2	5	4.2	21.6	6	7.2	6	NA	NA	0	<0.05	4	1.1	1.3	1.1	25.8	7.16	8.6	7.16	9.94	2.76	6.02	2.76	0.271	0.0745	0	0.0745	300		-	20.3

Outfall #	Outfall description	BOD mass (lbs)	BOD conc (mg/L)	BOD mass (lbs)	BOD conc (mg/L)	TSS mass (lbs)	TSS conc (mg/L)	TSS mass (lbs)	TSS conc (mg/L)	Fecal mass (lbs)	Fecal conc (mg/L)	TRC mass (lbs)	TRC conc (mg/L)	TRC mass (lbs)	TRC conc (mg/L)
1	Navigation lock spump 3: tainter valve #1 Drainage Sump discharge	0	<2	0	<2	102.71	5.7	4.9	5.7	NA	NA	0	<0.05	0	<0.05
2	Nav Lock Pump 4: North Fish Pumphouse Unwaterins sump discharge	177.31	9.84	8.53	9.84	153.11	8.5	7.4	8.5	NA	NA	1.03	0.057	0.05	0.057
3	Nav Lock Pump 8: North Non-Overflow Drainage Sump Discharge	0	<2	0	<2	18	3	3.5	3	NA	NA	0	<0.05	0	<0.05
4	Pump 9 :South fish pumphouse unwatering sump discharge	0	<2	0	<2	180.1	10	8.7	10	NA	NA	0	<0.05	0	<0.05
5	MU 1 Air Cooler non-contact cooling water	0	<2	0	<2	49	3.4	49	3.4	NA	NA	0	<0.05	0	<0.05
6	MU1 Thrust bearing non-contact cooling water	0	<2	0	<2	7.1	4.9	7.1	4.9	NA	NA	0	<0.05	0	<0.05
7	MU2 Air Cooler non-contact cooling water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8	MU2 Thrust bearing non-contact cooling water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9	MU3 Air Cooler non-contact cooling water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10	MU3 Thrust bearing non-contact cooling water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11	MU4 Non-contact cooling water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
12	MU5 Non-contact cooling water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13	MU6 Non-contact cooling water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
14	Combined Drainage and unwater sump discharge	0	<2	0	<2	378.3	3	101.3	3	NA	NA	0	<0.05	0	<0.05
15	HVAC discharge	86.3	6.3	86.3	6.3	205.4	15	205.4	15	NA	NA	0	<0.05	0	<0.05
16	Transformer Cool 1-1	0	<2	0	<2	6.4	2.8	6.4	2.8	NA	NA	0	<0.05	0	<0.05
17	Transformer Cool 1-2	0	<2	0	<2	6.2	2.6	6.2	2.6	NA	NA	0	<0.05	0	<0.05
18	Transformer Cool 2-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
19	Transformer Cool 2-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
20	Transformer Cool 3-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
21	Transformer Cool 3-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Average	26.361	8.07	9.483	8.07	110.632	5.89	39.99	5.89	NA	NA	0.103	0.057	0.005	0.057
	Minimum	0	6.3	0	6.3	6.2	2.6	3.5	2.6	NA	NA	0	0.057	0	0.057
	Maximum	177.31	9.84	86.3	9.84	378.3	15	205.4	15	NA	NA	1.03	0.057	0.05	0.057

FLOW??

Oil and Grease mass (lbs)	Oil and Grease conc (mg/L)	Oil and Grease mass (lbs)	Oil and Grease conc (mg/L)	COD mass (lbs)	COD conc (mg/L)	COD mass (lbs)	COD conc (mg/L)	TOC mass (lbs)	TOC conc (mg/L)	TOC mass (lbs)	TOC conc (mg/L)	Ammonia mass (lbs)	Ammonia conc (mg/L)	Ammonia mass (lbs)	Ammonia conc (mg/L)	Discharge Flow (cfs)	pH	Winter temp (C)
0	<1	0	<1	0	<10	0	<10	30.6	1.7	1.4	1.7	0	<0.03	0	<0.03	1500	7.5-8.5	-
0.05	0.057	79.3	4.4	3.8	4.4	3.8	4.4	122.51	6.8	22.6	6.8	0	<0.03	0	<0.03	1500	7.0-8.0	-
0	<1	0	<1	0	<10	0	<10	9	1.5	1.7	1.5	0	<0.03	0	<0.03	500	7.5-8.5	-
0	<1	0	<1	0	<10	0	<10	28.8	1.6	1.4	1.6	0	<0.03	0	<0.03	1500	7.5-8.5	-
0	<1	0	<1	0	<10	0	<10	30.3	2.1	30.3	2.1	0.69	0.048	0.69	0.048	1200	7.0 - 8.0	-
0	<1	0	<1	0	<10	0	<10	3	2.1	3	2.1	0.06	0.043	0.06	0.043	120	7.0-8.0	-
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1200		-
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120		-
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1200		-
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120		-
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1950		-
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1950		-
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1950		-
517	4.1	138.5	4.1	0	<10	0	<10	214.4	1.7	57.4	1.7	0	<0.03	0	<0.03	10500	7.0 - 8.0	-
0	<1	0	<1	260.11	19	260.11	19	58.9	4.3	58.9	4.3	0	<0.03	0	<0.03	1140	7.0 - 8.0	-
0	<1	0	<1	0	<10	0	<10	5.3	2.2	5.3	2.2	0.08	0.032	0.08	0.032	200	7.5-8.5	-
0	<1	0	<1	0	<10	0	<10	5.8	2.4	5.8	2.4	0	<0.03	0	<0.03	200	7.5 - 8.5	-
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200		-
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200		-
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200		-
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200		-
51.705	2.0785	21.78	4.25	26.391	11.7	26.391	11.7	50.861	2.64	18.78	2.64	0.083	0.041	0.083	0.041	1316.667		-
0	0.057	0	4.1	0	4.4	0	4.4	3	1.5	1.4	1.5	0	0.032	0	0.032	120		-
517	4.1	138.5	4.4	260.11	19	260.11	19	214.4	6.8	58.9	6.8	0.69	0.048	0.69	0.048	10500		-

Summer Temp (C)
22.2
14.8
19.4
20.9
24.2
26.1
17.9
21.3
24.2
21.22222
14.8
26.1

Outfall #	Outfall description	BOD mass (lbs)	BOD conc (mg/L)	BOD mass (lbs)	BOD conc (mg/L)	TSS mass (lbs)	TSS conc (mg/L)	TSS mass (lbs)	TSS conc (mg/L)	Fecal mass (lbs)	Fecal conc (mg/L)	TRC mass (lbs)	TRC conc (mg/L)	TRC mass (lbs)	TRC conc (mg/L)
1	drainage sump	0	<2	0	<2	67.25	2.8	62.35	2.8	NA	NA	0	<0.05	0	<0.05
2	unwatering sump	0	<2	288.21	3.2	161.71	3.2	161.71	3.2	NA	NA	0	<0.05	0	<0.05
3	heat pump	42	2.8	42	2.8	1111	74	1111	74	NA	NA	0	<0.05	0	<0.05
4	emergency diesel generator cooling discharge	0	<2	0	<2	23.2	4.3	0.03	4.3	NA	NA	0	<0.05	0	<0.05
5	generator cooling water unit 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	generator cooling water unit 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	generator cooling water unit 3	0	<2	0	<2	108.11	6	108.11	6	NA	NA	0	<0.05	0	<0.05
8	generator cooling water unit 4	0	<2	0	<2	43.2	3	43.2	3	NA	NA	0	<0.05	0	<0.05
9	generator cooling water unit 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
10	generator cooling water unit 6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11	Transformer tailwater discharge (01)	0	<2	0	<2	1.3	6.2	1.3	6.2	NA	NA	0	<0.05	0	<0.05
11b	Transformer tailwater discharge (02)	0	<2	0	<2	1.1	5.1	1.1	5.1	NA	NA	0.02	0.072	0.02	0.072
12	Anesthetizing tanks	0.24	29.6	0.24	29.6	0.04	5.5	0.04	5.5	NA	NA	0	<0.05	0	<0.05
13	Holding tanks	0	<2	0	<2	0.02	3.6	0.02	3.6	NA	NA	0	<005	0	<0.05
	average	4.224	16.2	33.045	11.86667	151.693	11.37	148.886	11.37	NA	NA	0.002	0.072	0.002	0.072
	minimum	0	2.8	0	2.8	0.02	2.8	0.02	2.8	NA	NA	0	0.072	0	0.072
	maximum	42	29.6	288.21	29.6	1111	74	1111	74	NA	NA	0.02	0.072	0.02	0.072

Oil and Grease mass (lbs)	Oil and Grease conc (mg/L)	Oil and Grease mass (lbs)	Oil and Grease conc (mg/L)	COD mass (lbs)	COD conc (mg/L)	COD mass (lbs)	COD conc (mg/L)	TOC mass (lbs)	TOC conc (mg/L)	TOC mass (lbs)	TOC conc (mg/L)	Ammonia mass (lbs)	Ammonia conc (mg/L)	Ammonia mass (lbs)	Ammonia conc (mg/L)	Discharge Flow (cfs)	pH	Winter temp (C)	Summer Temp (C)
0	<1	0	<1	202	8.41	187.31	8.41	51.88	2.16	48.1	2.16	0	<0.03	0	<0.03	2000	7.0-8.0	-	20.1
0	<1	0	<1	0	<10	0	<10	144.11	1.6	81.9	1.6	0	<0.03	0	<0.03	7500	7.0-8.0	-	16.7
0	<1	0	<1	420.31	28	420.31	28	42	2.8	42	2.8	0	<0.03	0	<0.03	1250	7.0-8.0	-	20.7
7	1.3	0.01	1.3	0	<10	0	<10	9.7	1.8	0.01	1.8	0.2	0.035	0	0.035	450	8.0-9.0	-	23
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1500		-	
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1500		-	
0	<1	0	<1	0	<10	0	<10	43.2	2.4	43.2	2.4	0	<0.03	0	<0.03	1500	8.0-9.0	-	21.6
0	<1	0	<1	0	<10	0	<10	37.5	2.6	37.5	2.6	0	<0.03	0	<0.03	1200	8.0-9.0	-	21.3
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1200		-	
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1200		-	
0	<1	0	<1	0	<10	0	<10	0.4	1.9	0.4	1.9	0	<0.03	0	<0.03	18	7.0-8.0	-	20.3
0.3	1.2	0.3	1.2	0	<10	0	<10	0.5	2.2	0.5	2.2	0	<0.03	0	<0.03	18	7.0-8.0	-	18.4
0	<1	0	<1	0.49	71	0.49	71	0.16	24	0.16	24	0.00031	0.038	0.0003	0.038	0.57 gpm	7.42	-	19.2
0	<1	0	<1	0.2	24	0.2	24	0.03	5.3	0.03	5.3	0.0002	0.031	0.0002	0.031	0.52gpm	7.0-8.0	-	17.6
0.73	1.25	0.031	1.25	62.3	32.8525	60.831	32.8525	32.948	4.676	25.38	4.676	0.020051	0.034667	0.00005	0.034667	1611.333	7.42	-	19.89
0	1.2	0	1.2	0	8.41	0	8.41	0.03	1.6	0.01	1.6	0	0.031	0	0.031	18	7.42	-	16.7
7	1.3	0.3	1.3	420.31	71	420.31	71	144.11	24	81.9	24	0.2	0.038	0.0003	0.038	7500	7.42	-	23

Average-high
BOD, TSS, COD, TOC, ammonia, oil and grease, ND for PCBs.

Outfall #	Outfall description	Pollutants Detected	Notes		BOD mass (lbs)	BOD conc (mg/L)	BOD mass (lbs)	BOD conc (mg/L)	TSS mass (lbs)	TSS conc (mg/L)	TSS mass (lbs)	TSS conc (mg/L)	Fecal mass (lbs)	Fecal conc (mg/L)	TRC mass (lbs)	TRC conc (mg/L)	TRC mass (lbs)	TRC conc (mg/L)
					max		ave daily		max daily		ave daily							
1	drainage sump	TSS, oil and grease, COD, TOC, ammonia	Includes drainage from various sources but are not limited to: Station Service and Governor air compressior cooling water discharge, deck drains, generator turbine floor and pit liner, powerhouse roof, powerhouse fishwater and fish collection channel, and north shore fishwater supply conduit and fishway tunnel. Runs 18 hours/day. Rcvs drainage from various sources, estimated flow rate 1200 gpm	combined	0	<2	0	<2	28.82	2	21.35	2	NA	NA	0	<0.05	0	<0.05
					no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas
2	unwatering pump	TSS, oil and grease, COD, TOC, ammonia	Drains water from several places inc: MU generators intake, discharge, spiral cases, nav lock and fishwater pump and turbine penstock. Unwatering pump is a backup for the drainage pump as well. Unwatering pump discharges 9150 gpm an average of 10 hours/day. Higher discahrges occur when pump is needed to unwater items such as MU generators, nav lock, and fish pump. Nav lock is unwatered in March and MUs are unwatered in August. Any item may require unwatering if a failure occurs.	combined	0	<2	0	<2	109.9	1	47.12	1	NA	NA	0	<0.05	0	<0.05
					no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	NA	NA	no meas	no meas	no meas	no meas
3	heat pump outfall	TSS, COD, TOC, ammonia	Discharges non-contact cooling water. Cooling water is river water thave comes from either the forebay or discharge cooling water Mus. In winter, the project uses warmer discharge cooling water to create heat and uses cooler forebay water in summer for air conditioning. Outfall discharges when heat pumps are running. Higher discharges occur during warmer and cooler months, Ave flow 600 gpm, operates ave 13 hrs/day.		0	<2	0	<2	7.21	1	3.93	1	NA	NA	0	<0.05	0	<0.05
4	emergency diesel generator cooling water	TOC, ammonia	small amounts; rarely in use; weekly half hour tests		0	<2	0	<2	0	<2	0	<2	NA	NA	0	<0.05	0	<0.05
5	Cooling water discharge unit 1	BOD, TSS, Oil and grease, COD, TOC, ammonia	all cooling water discharges are substantially the same; thrustbearing oil cooler, turbine gland water, and turbine bearing cooler water; intermittent discharges b/c cooling water shut down when MU is shut down.		252.9	10.8	252.9	10.8	445	19	445	19	NA	NA	0	<0.05	0	<0.05
					no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	NA	NA	no meas	no meas	no meas	no meas
6	Cooling water discharge unit 2	BOD, TSS, Oil and grease, COD, TOC, ammonia			86.83	3.67	86.63	3.67	23.66	1	23.66	1	NA	NA	0	<0.05	0	<0.05
7	Cooling water discharge unit 3	BOD, TSS, Oil and grease, COD, TOC, ammonia	no samples taken, but notes in outfalls 5 and 6 indicate that discharge quality of outfalls 5-10 are virtually the same		no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas
8	Cooling water discharge unit 4	BOD, TSS, Oil and grease, COD, TOC, ammonia			no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas
9	Cooling water discharge unit 5	BOD, TSS, Oil and grease, COD, TOC, ammonia			no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas
10	Cooling water discharge unit 6	BOD, TSS, Oil and grease, COD, TOC, ammonia			no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas
11	North shore diesel generator drain	TSS, Oil and grease, TOC	small amounts; rarely in use; monthly running of generator or in emergency situations	may combine 11 and 12 because 11 may feed into 12	0	<2	0	<2	0.04	2	0.04	2	NA	NA	0	<0.05	0	<0.05
					no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	NA	NA	no meas	no meas	no meas	no meas
12	north shore sump pump #2 drain	oil and grease, TOC, ammonia	Receives discharges from all waterstop leaks and aquifer uplift that occurs in drainage galleries. Flow to sump is constant, but can be heavier in winter due to expansion of the dam.	b/c of upwelling, warwe is in cavity; combined - unlcear about cooling water	0	<2	0	<2	0	<2	0	<2	NA	NA	0	<0.05	0	<0.05
					no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	NA	NA	no meas	no meas	no meas	no meas
13	navigation lock fill valve sump	BOD, TSS, TRC, Oil and grease, COD, TOC, ammonia	pump is rarely operated; collects water that leaks past seals from fill valve shafts. Intermittent discharge depending on rate of seal leakage. 2" line	this is its own drainage sump; no non-contact cooling water	0.43	17.7	0.43	17.7	0.89	37	0.89	37	NA	NA	0.001	0.06	0.001	0.06
					no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	NA	NA	no meas	no meas	no meas	no meas
14	visitors center A.C drain	oil and grease, TOC, ammonia	drains potable water from AC unit; flow restricted to summer months; 12 hrs/day during warmest months and incrementally less until unit is shut down in cooler months	non-contact cooling water	0	<2	0	<2	0	<2	0	<2	NA	NA	0.01	0.09	0.01	0.09
					no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	NA	NA	no meas	no meas	no meas	no meas
15	Navigation lock drainage	BOD, TSS, TRC, Oil and grease, COD, TOC, ammonia	highest levels of all outfalls; discharges lock water leakage from nav lock, gates, fill drains, and drain s=culverts. 5600 gpm if both submersible pumps in operation. Under normal conditions, flow is 1500 gpm. 16" line.	couldn't get sample; had to lower sampling unit	284.6	15.8	0.57	15.8	108.11	6	0.22	6	NA	NA	1.41	0.08	0	0.08
					no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	NA	NA	no meas	no meas	no meas	no meas
16	juvenile fish facility discharge from wet lab	BOD, TSS, TRC, Oil and grease, COD, TOC, ammonia	low but detectable concentrations, MS-222 in discharges, 30" pipe; operates seasonally from ~April -Oct. Fish facility smolt monitoring and transportation lab operates 7 days/wk. In April, fish are sampled every 5th day and MS-222 is discharged. May through October sampling occurs daily. Water is discharged from 180 gallon take once daily, and only during the normal season.		0.03	17.3	0.03	17.3	0	3	0	3	NA	NA	0	0.07	0	0.07
	average				52.06583333	13.054	28.38	13.054	60.3025	8	45.18416667	8	NA	NA	0.118416667	0.075	0.000916667	0.075
	minimum				0	3.67	0	3.67	0	1	0	1	NA	NA	0	0.06	0	0.06
	maximum				284.6	17.7	252.9	17.7	445	37	445	37	NA	NA	1.41	0.09	0.01	0.09

FLOW?

max daily		ave daily		max daily		ave daily		max daily		ave daily		max daily		ave daily					
Oil and Grease mass (lbs)	Oil and Grease conc (mg/L)	Oil and Grease mass (lbs)	Oil and Grease conc (mg/L)	COD mass (lbs)	COD conc (mg/L)	COD mass (lbs)	COD conc (mg/L)	TOC mass (lbs)	TOC conc (mg/L)	TOC mass (lbs)	TOC conc (mg/L)	Ammonia mass (lbs)	Ammonia conc (mg/L)	Ammonia mass (lbs)	Ammonia conc (mg/L)	Discharge Flow (cfs)	pH	Winter temp (C)	Summer Temp (C)
77.82	5.4	57.65	5.4	89.35	6.2	66.19	6.2	24.21	1.68	17.93	1.68	1.56	0.11	1.15	0.11	1200	7.0-8.0	-	17.4
33.15	2.3	24.58	2.3	no measurement	no measurement	no measurement	no measurement	no measurement	no measurement	no measurement	no measurement	no measurement	no measurement	no measurement	no measurement	1200		-	
131.9	1.2	56.55	1.2	770.31	7.01	330.31	7.01	189.01	1.72	81.05	1.72	6.46	0.06	2.77	0.06	9150	7.0-8.0	-	16.5
0	<1.0	0	<1.0	no measurement	no measurement	no measurement	no measurement	no measurement	no measurement	no measurement	no measurement	no measurement	no measurement	no measurement	no measurement	9150	no meas	-	no meas
0	<1	0	<1	75.7	10.5	41.3	10.5	15.42	75.66	8.42	75.66	0.71	0.1	0.39	0.1	600	7.0-8.0	-	28.3
0	<1	0	<1	0	<5	0	<5	0.07	0.21	0.07	0.21	0.04	0.11	0.04	0.11	30	7.0-8.0	-	28.2
39.8	1.7	39.8	1.7	594.8	25.4	594.8	25.4	142.2	6.07	142.2	6.07	4.52	0.19	4.52	0.19	1950	7.0-8.0	-	23.1
39.81	1.7	39.81	1.7	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	1950	no meas	-	no meas
0	<1	0	<1	262.6	11.1	262.6	11.1	60.57	2.56	60.57	2.56	2.02	0.09	2.02	0.09	1970	7.0-8.0	-	22.6
no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	1690	no meas	-	no meas
no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	1690	no meas	-	no meas
no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	1690	no meas	-	no meas
no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	1690	no meas	-	no meas
0.02	1.2	0.02	1.2	0	<5	0	<5	0.01	0.51	0.01	0.51	0	0.08	0	0.08	1.6	7.0-8.0	-	24.3
0.02	1.2	0.03	1.4	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	1.6	no meas	-	no meas
8.07	1.2	2.47	1.2	0	<2	0	<2	9.68	1.44	2.96	1.44	0.79	0.12	0.24	0.12	560	8.0-9.0	-	14.7
8.07	1.2	0	<1	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	560	no meas	-	no meas
1.46	60.6	1.46	60.6	2.69	112	2.69	112	0.07	2.83	0.07	2.83	0.001	0.06	0.001	0.06	2	7.0-8.0	-	16.8
0.07	3.1	0.07	3.1	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	2	no meas	-	no meas
0.17	1.1	0.09	1.1	0	<5	0	<5	0.18	1.13	0.09	1.13	0.01	0.07	0.01	0.07	13	7.0-8.0	-	27.6
0	<1	0	<1	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	13	no meas	-	no meas
291.6	16.2	0.58	16.2	617.9	34.3	1.24	34.3	115.3	6.4	0.23	6.4	1.26	0.07	4.72	0.07	5600	7.0-8.0	-	17.3
79.3	4.4	0.16	4.4	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	no meas	13	no meas	-	no meas
0	1	0	1	0.09	56.8	0.09	56.8	0.03	19.3	0.03	19.3	0	0.2	0	0.2	0.125	7.0-8.0	-	17.7
35.563	6.9	11.1635	7.321428571	201.12	32.91375	108.2683333	32.91375	46.39583333	9.959166667	26.13583333	9.959166667	1.447583333	0.105	1.32175	0.105	1696.930208	#DIV/0!	-	21.20833333
0	1	0	1	0	6.2	0	6.2	0.01	0.21	0.01	0.21	0	0.06	0	0.06	0.125	0	-	14.7
291.6	60.6	57.65	60.6	770.31	112	594.8	112	189.01	75.66	142.2	75.66	6.46	0.2	4.72	0.2	9150	0	-	28.3

		max		ave daily		max daily		ave daily							
Outfall #	**Outfall description**	**BOD mass (lbs)**	**BOD conc (mg/L)**	**BOD mass (lbs)**	**BOD conc (mg/L)**	**TSS mass (lbs)**	**TSS conc (mg/L)**	**TSS mass (lbs)**	**TSS conc (mg/L)**	**Fecal mass (lbs)**	**Fecal conc (mg/L)**	**TRC mass (lbs)**	**TRC conc (mg/L)**	**TRC mass (lbs)**	**TRC conc (mg/L)**
1	drainage sump	0	<2	0	<2	48	2	18.2	2	NA	NA	0	<0.05	0	<0.05
2	unwatering sump	0	<2	0	<2	180.11	2	18.8	2	NA	NA	0	<0.05	0	<0.05
3	generator cooling water unit 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3b?	emergency diesel generator cooling	0	<2	0	<2	1.3	2	0.0021	2	NA	NA	0	<0.05	0	<0.05
4	generator cooling water unit 2	141.8	9.84	141.81	9.84	72.1	5	72.1	5	NA	NA	0	<0.05	0	<0.05
5	generator cooling water unit 3	83	5.76	83	5.76	28.82	2	28.82	2	NA	NA	0	<0.05	0	<0.05
6	generator cooling water unit 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7	generator cooling water unit 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8	generator cooling water unit 6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9	heat pump non-contact cooling water	75.3	5.4	75.3	5.4	13.9	1	13.9	1	NA	NA	0	<0.05	0	<0.05
10	adult fish trap discharge	3018	22.4	3018	22.4	1077	8	1077	8	NA	NA	7.68	0.057	7.68	0.057
11	CNO sump discharge (2 pumps with two discharges from one sump)	84.141	5.65	31.55	5.65	104.21	7	39.1	7	NA	NA	0	<0.05	0	<0.05
12	JFF Conex Lab discharge	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13	JFF WET Lab Discharge	16.9	28.1	2.1	28.1	0	nd	0	nd	NA	NA	0	<0.05	0	<0.05
	average	379.9046	12.85833	372.4178	12.85833	169.4933	3.625	140.8802	3.625	NA	NA	0.853333	0.057	0.853333	0.057
	minimum	0	5.4	0	5.4	0	1	0	1	NA	NA	0	0.057	0	0.057
	maximum	3018	28.1	3018	28.1	1077	8	1077	8	NA	NA	7.68	0.057	7.68	0.057

max daily		ave daily		max daily		ave daily		max daily		ave daily		max daily		ave daily		0.2			
Oil and Grease mass (lbs)	**Oil and Grease conc (mg/L)**	**Oil and Grease mass (lbs)**	**Oil and Grease conc (mg/L)**	**COD mass (lbs)**	**COD conc (mg/L)**	**COD mass (lbs)**	**COD conc (mg/L)**	**TOC mass (lbs)**	**TOC conc (mg/L)**	**TOC mass (lbs)**	**TOC conc (mg/L)**	**Ammonia mass (lbs)**	**Ammonia conc (mg/L)**	**Ammonia mass (lbs)**	**Ammonia conc (mg/L)**	**Discharge Flow (cfs)**	**pH**	**Winter temp (C)**	**Summer Temp (C)**
31.2	1.3	11.8	1.3	142.71	5.94	54.1	5.94	50.7	2.11	19.2	2.11	3.94	0.164	1.49	0.164	2000	7.0 - 8.0	-	18.6
0	<1	0	<1	0	<5	0	<5	100.01	1.11	10.4	1.11	5.79	0.064	0.6	0.064	7500	7.0-8.0	-	16.6
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2200		-	
0	<1	0	<1	4.99	7.55	0.007	7.55	1.14	1.72	0.0021	1.72	0.07	0.111	0.00011	0.111	55	7.0-8.0	-	33.6
0	<1	0	<1	292.6	20.3	292.6	20.3	65.6	4.55	65.6	4.55	2.44	0.169	2.44	1.69	1200	7.0-8.0	-	22.6
0	<1	0	<1	206.11	14.3	206.11	14.3	48.131	3.34	48.13	3.34	1.71	0.119	1.71	0.119	1200	7.0-8.0	-	23.6
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1200		-	
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1200		-	
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1200		-	
0	<1	0	<1	177.11	12.7	177.11	12.7	42.94	3.08	42.94	3.08	1.39	0.1	1.39	0.1	1161	7.0-8.0	-	21.8
0	<1	0	<1	820.61	6.09	820.61	6.09	353	2.62	353	2.62	30.72	0.228	30.72	0.228	11220	7.0-8.0	-	18.8
19.4	1.3	7.4	1.3	285.91	19.2	107.21	19.2	65.231	4.38	24.46	4.38	1.94	0.13	0.73	0.13	1240	7.0-8.0	-	18.6
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10		-	
0	<1	0	<1	33.4	55.6	4.2	55.6	11.4	18.9	1.4	18.9	0.09	0.155	0.01	0.155	50	6.5-7.5	-	16.6
5.6222222	1.3	2.1333333	1.3	218.16	17.71	184.6608	17.71	82.01689	4.645556	62.79246	4.645556	5.343333	0.137778	4.343346	0.306778	2245.429		-	21.2
0	1.3	0	1.3	0	5.94	0	5.94	1.14	1.11	0.0021	1.11	0.07	0.064	0.00011	0.064	10		-	16.6
31.2	1.3	11.8	1.3	820.61	55.6	820.61	55.6	353	18.9	353	18.9	30.72	0.228	30.72	1.69	11220		-	33.6

Outfall #	Outfall description	BOD mass	BOD conc	TSS mass	TSS conc	Fecal mass	Fecal conc	TRC mass	TRC conc
1	Pump/Generating Plant Sump	4.7	0.032	0	<10	0	<1	0.06	<0
2	Left Powerhouse Transformer Desk Sump	0	<2.4	0	<10	2	0.031	0.03	0.004
3	Left Powerhouse Sump	0	<2.4	0	<10	6	0.25	0.06	0.009
4a	Left Powerhouse Generator Three (G-3), G-8, Cooling water	0	<2.4	0	<10	1	0.033	0.02	0.001
4b		0	<2.4	0	<10	4	0.133	0.04	0.001
5	Main Dam Galleries	0	<2.4	0	<10	1	0.343	0.02	0.007
6	Right Powerhouse Transformer Deck Sump	0	<2.4	0	<10	4	0.558	0.04	0.006
7	Right Power House Sump	4.6	0.192	0	<10	4	0.167	0.12	0.005
8	Right Power House G-11, G-16 cooling water	0	<2.4	0	<10	3	0.1	0.02	0.001
8b		0	<2.4	0	<10	1	0.033	0.05	0.002
9a	Third Power plant transformer deck sump	0	<2.4	0	<10	3	0.038	0.01	0
9b		0	<2.4	0	<10	1	0.013	0	<0.1
10	Third Power Plant Sump	18	30.832	0	<10	30	51.387	0	<0.1
11	Third Power Plant G-19, G-24 Cooling water	0	<2.4	0	<10	7	0.081	0.06	0.001
	min	0	0.032	0	<10	0	0.013	0	0
	max	18	30.832	0	<10	30	51.387	0.12	0.009
	average	1.95	10.352	0	<10	4.785714	4.089769	0.037857	0.003364

Oil and Grease mass	Oil and Grease conc	COD mass	COD conc	TOC mass	TOC conc	Ammonia mass	Ammonia conc	Discharge Flow	pH	Winter temp	Summer Temp
0	<4.3	0	20	2.4	0.017	0.11	0.001	17.39	7.25	-	17.1
0	**<4.1**	0	<20	1.2	0.018	0.19	0.003	7.81	7.52	-	16.2
0	<4.3	0	<21	1.3	0.054	0	<0.1	2.8	7.66	-	15.5
0	**<4.3**	0	<20	1.3	0.043	0.14	0.005	3.6	7.66	-	17.5
0	**<4.3**	0	<20	3.4	0.113	0	<0.1	3.6	7.69	-	17.9
0	**<4.3**	0	<20	2.2	0.754	0	<0.1	0.35	7.43	-	11
0	**<4.3**	0	<20	1.6	0.223	0	<0.1	0.86	7.57	-	16.4
0	**<4.3**	0	<20	4	0.167	0	<0.1	2.88	7.73	-	16.6
0	**<4.3**	0	<20	3.5	0.117	0	<0.1	3.6	7.65	-	17.4
0	**<4.3**	0	<20	0	<1	0.16	0.005	3.6	7.71	-	15.6
0	**<4.3**	0	<20	3.3	0.04	0	<0.1	9.36	7.64	-	13.4
0	**<4.3**	0	<20	3.3	0.04	0	<0.1	9.36	7.71	-	13.5
310	531	87	149.024	5.5	9.421	0	<0.1	0.07	6.51	-	13.4
0	**<4.3**	0	<20	0	<1	0	<0.1	10.37	7.35	-	17.7
0	531	0	20	0	0.017	0	0.001	0.07	6.51	-	11
310	531	87	149.024	5.5	9.421	0.19	0.005	17.39	7.73	-	17.9
22.14286	531	6.214286	84.512	2.357143	0.91725	0.042857	0.0035	5.403571	7.505714	-	15.65714

	Temp (C)	pH	BOD (mg/L)	TSS conc (mg/L)	COD (X)	TOC (X)	Ammonia (X)	Oil/Grease (X)	PCB (X)
BONNEVILLE INFLUENT	21.5	8.05	nd	6	nd	1.7	0.2	nd	0.07
DALLES INFLUENT	9	7.83	nd	nd	nd	2.1	nd	nd	NA
JOHN DAY INFLUENT	22.9	7.6	nd	10	nd	1.7	0.12	nd	nd

	Temp (C)	pH	BOD (mg/L)	TSS conc (mg/L)	COD (X)	TOC (X)	Ammonia (X)	Oil/Grease (X)	PCB (X)
LITTLE GOOSE INFLUENT	18.2	8.04	6.2	6	12.7	3.48	0.056	1.8	nd
LOWER GRANITE INFLUENT	24.9	8.42	<2.0	2	8.91	1.85	0.107	nd	nd