

ATTACHMENT F
BENCHMARK MONITORING SAMPLING DATA SUMMARY

**Summary of Benchmark Monitoring Sample Results - Juneau International Airport
2009-2014**

Outfall #	Parameter	Benchmark	Nov-09	Feb-10	Mar-10	11/30/2010	1/4/2011	2/1/2011	3/17/2011
Outfall 1	BOD ₅	30 mg/L	528	377	3.92	58.8	12	86	36
	COD	120 mg/L	1,500	490	1	100	28	106	95
	Ammonia	2.14 mg/L	60	84	1.8	4.7	6	18	58
	pH	6.5 to 8.5	8.1	8.2	7.13	6.95	7.82	8.05	8.73

Outfall #	Parameter	Benchmark	Nov-09	Jan-10	Feb-10	Mar-10
Outfall 7	BOD ₅	30 mg/L	30.5	4.5	1	1
	COD	120 mg/L	65	110	6	6
	Ammonia	2.14 mg/L	3	0.2	0.5	0.20
	pH	6.5 to 8.5	6.92	7.45	6.95	6.81

Outfall #	Parameter	Benchmark	Nov-09	Feb-10	Mar-10	11/30/2010	1/4/2011	3/17/2011	11/28/2011	2/21/2012	3/8/2012	12/18/2012	1/15/2013	2/28/2013	3/25/2013	12/10/2013	1/15/2014	1/15/2014	3/10/2014
Outfall 10	BOD ₅	30 mg/L	4.41	12.7	17.4														
	COD	120 mg/L	88	16	6														
	Ammonia	2.14 mg/L	1.7	11	3.7	4.4	25	62	<1	10	7	14	5.9	7.7	17	56	5.9	3	36
	pH	6.5 to 8.5	6.97	7.49	7.3														

Outfall #	Parameter	Benchmark	Nov-09	Jan-10	Feb-10	Mar-10	12/21/2011	2/21/2012
Outfall 11	BOD ₅	30 mg/L	1	24.1	7.2	40.7	<2	29
	COD	120 mg/L	26	14	150	24	1032	<15
	Ammonia	2.14 mg/L	13	11	0.55	8.6	1	9
	pH	6.5 to 8.5	7.9	7.85	7.56	7.71	7.72	7.53

**Summary of Benchmark Monitoring Sample Results - Juneau International Airport
2014-2015 Deicing Season**

Outfall #	Parameter	Benchmark	12/19/2014	1/12/2015	2/12/2012	3/4/2015
Outfall 7	BOD ₅	30 mg/L	80	210	>207	<2
	COD	120 mg/L	150	290	400	35
	Ammonia	2.14 mg/L	1.5	6.3	8.9	1.9
	pH	6.5 to 8.5	6.37	6.94	6.93	7.12

Outfall #	Parameter	Benchmark	12/19/2014	1/12/2015	2/12/2012	3/4/2015
Outfall 10	BOD ₅	30 mg/L	-	21	19	<2
	COD	120 mg/L	-	45	68	63
	Ammonia	2.14 mg/L	-	21	13	12
	pH	6.5 to 8.5	-	7.63	7.34	6.68

Outfall #	Parameter	Benchmark	12/19/2014	1/12/2015	2/12/2012	3/4/2015
Outfall 11	BOD ₅	30 mg/L	35	-	-	-
	COD	120 mg/L	120	-	-	-
	Ammonia	2.14 mg/L	2.0	-	-	-
	pH	6.5 to 8.5	6.93	-	-	-

Outfall #	Parameter	Benchmark	12/19/2014	1/12/2015	2/12/2012	3/4/2015
Pond Outflow	BOD ₅	30 mg/L	-	23	<4	2.6
	COD	120 mg/L	-	52	290	150
	Ammonia	2.14 mg/L	-	9.8	1.5	1.8
	pH	6.5 to 8.5	-	7.47	7.27	7.34

Outfall #	Parameter	Benchmark	12/19/2014	1/12/2015	2/12/2012	3/4/2015
NE	BOD ₅	30 mg/L	-	6.8	<4	5.2
	COD	120 mg/L	-	17	68	56
	Ammonia	2.14 mg/L	-	3.0	13	12
	pH	6.5 to 8.5	-	7.23	7.34	7.15

Outfall #	Parameter	Benchmark	12/19/2014	1/12/2015	2/12/2012	3/4/2015
IE	BOD ₅	30 mg/L	-	17	25	-
	COD	120 mg/L	-	35	65	-
	Ammonia	2.14 mg/L	-	29	35	-
	pH	6.5 to 8.5	-	8.17	7.88	-

Outfall #	Parameter	Benchmark	12/19/2014	1/12/2015	2/12/2012	3/4/2015
IW	BOD ₅	30 mg/L	-	9.6	17	-
	COD	120 mg/L	-	21	59	-
	Ammonia	2.14 mg/L	-	20	23	-
	pH	6.5 to 8.5	-	7.71	7.58	-