REF. DWG NO. 500-0007 REV. A 1594

DAILY LOG

DAY	DATE	TIME	CAUSTIC LEVEL	FLOC. LEVEL	pH READING PROCESS MONITOR	pH READING OUTPUT MONITOR	pH PAPER PROCESS MONITOR	pH PAPER OUTPUT MONITOR	FLOWMETER	CYCLES	TEMP F° LARGE TANK	TEMP F° SMALL TANK	TEMP F° OAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS,PROBLEMS,& REMARKS (W/O#)
MONDAY	12/25	7 AM	2.2	10	10.50	9.71	—	—	2584	98	107	70	46				
		3 PM	2.2	7	10.73	9.55	—	—	249	0	106	66	58				
		11PM	2.2	7	9.50	9.64	-		1541	32	110	64	55				
TUESDAY	12/30	7 AM	2.0	7?	11.62	9.62	—	—	1678	35	107	65	53				
		3 PM	1.7	7	10.13	9.71	—	—	832	20	108	66	53				
		11PM	1.2	5	9.61	9.85			1419	51	111	89	51				
WEDNESDAY	12/31	7 AM	1.2	5	13.25	9.83	—	—	1419	58	105	68	50				
		3 PM	20.4	3	10.30	9.71	—	—	850	0	111	69	49				
		11PM	20.7	17	9.70	9.71			1076	30	111	71	49				
THURSDAY	1/1	7 AM	20	15													New Years Day
		3 PM															
		11PM															
FRIDAY	1/2	7 AM	20.5	17	10.22	9.94	—	—	1076	51	113	71	46				
		3 PM	20.5	15	11.55	9.87	—	—	1644	Ø	113	71	47				
		11PM	20.5	9	9.61	9.86	—	-	2515	12	115	70	46				
SATURDAY																	
SUNDAY																	

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\WOUT\500-0007, 1/04/92

AKC-0005846

Industrial Waste Monthly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

AKC-0005847

Company Name: ALASKAN COPPER WORKS **Sample Site No.** A-4010 **Permit/DA No.:** 7238

Please Specify Month & Year: **Month** DECEMBER **2007** **This form is available at http://dnr.metrokc.gov/wlr/indwaste**

All units are mg/l unless otherwise noted. Note: For cyanide circle test performed - amenable or total ▼

Sample Date (circle)	Sample Type C (Composite) G (grab) BC (batch)	pH Min	pH Max	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Silver, Ag	Zinc, Zn	Cyanide (CN) Amenable (A) or Total (T)	NP Fats, Oils, and Grease (Average of 3 grabs)		Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1		9.5	9.7												1594	
2		9.8	9.9												2517	
3		10.5	11.0												1492	
(4)	C	10.2	10.5		.63	.39			.54		.02				2309	
5		10.0	10.2												1480	
6		---------	---------												----------	
7		---------	---------												----------	
8		9.8	10.0												1230	
(9)	C	9.8	10.0		1.48	1.14			2.04		.06				2121	
10		9.8	9.9												1583	
11		9.7	9.8												2479	
12		9.9	10.3												1839	
13		---------	---------												----------	
14		---------	---------												----------	
15		10.3	10.3												2149	
16		11.0	11.4												1470	
17		10.4	10.8												1479	
18		10.2	10.4												1629	
19		10.0	10.2												1161	
20		---------	---------												----------	
21		---------	---------												----------	
22		9.5	9.6												1153	
23		9.5	9.6												1337	
24		---------	---------												----------	CHRISTMAS
25		---------	---------												----------	HOLIDAY
(26)	C	9.5	9.8		.65	.46			.85		.04				1661	
27		---------	---------												----------	
28		---------	---------												----------	
29		9.5	9.7												2584	
30		9.6	9.8												1678	
31		9.7	9.8												1419	

Monthly Min pH	9.5	& Date	12-1-08	Total Monthly Flow (gallons)	36292
Monthly Max pH	11.4	& Date	12-16-08	Maximum Daily Flow	2584 & Date 12/29

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

Signature of Principal Executive or Authorized Agent 1-15-08 Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: **Monthly report is due by the 15th of each month.**

REF. DWG NO. 500-0007 REV. A 1594

DAILY LOG

DAY	DATE	TIME	CAUSTIC LEVEL	FLOC. LEVEL	pH READING PROCESS MONITOR	pH READING OUTPUT MONITOR	pH PAPER PROCESS MONITOR	pH PAPER OUTPUT MONITOR	FLOWMETER	CYCLES	TEMP F° LARGE TANK	TEMP F° SMALL TANK	TEMP F° OAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS, PROBLEMS, & REMARKS (W/O#)
MONDAY	12/1	7 AM	5.4	11	11.25	9.46	–	–	554	44	115	88	132				Forgot to Reset
		3 PM	5.3	7	10.83	9.20	–	–	1653	3							
		~~11PM~~ 7:30	5.1	2	10.01	9.74	–	–	2517	12	117	81	110				Shutdown 7:30PM.
TUESDAY	12/2	7 AM	4.6	2	10.65	9.81	–	–	2517	18	111	82	129				104
		3 PM	4.6	15	12.34	9.79	–	–	586	1	121	84	121				
		~~11PM~~ 7:30	4.5	13	11.45	9.54	–	–	1330	3	123	86	115				
WEDNESDAY	12/3	7 AM	4.6	13	12.19	10.56	–	–	1492	3	119	80	129				
		3 PM	4.6	7	10.85	10.59	–	–	1196	1	124	82	121				
		11PM	4.5	18	10.14	10.84	–	–	2309	5	121	83	107				
THURSDAY	12/4	7 AM	4.6	18	10.17	10.54	–	–	2309	5	115	78	128				
		3 PM	4.6	15	9.83	10.38	–	–	2790	9	123	80	120				
		11PM	4.1	12	9.99	10.28	–	–	3702	15	124	81	107				
FRIDAY	12/5	7 AM	4.1	12	11.97	10.21	–	–	1980 / 3789	15	120	80	130				
		3 PM	4.1	9	9.60	10.15	–	–	414	13	120	80	124				
		11PM	4.1	5	9.94	10.09	–	–	1230	40	120	84	107				
SATURDAY																	
SUNDAY																	

\\WOUT\500-0007, 03/04/99

AKC-0005848

REF. DWG NO. 500-0007 REV. A 1594

DAILY LOG

DAY	DATE	TIME	CAUSTIC LEVEL	FLOC. LEVEL	pH READING PROCESS MONITOR	pH READING OUTPUT MONITOR	pH PAPER PROCESS MONITOR	pH PAPER OUTPUT MONITOR	FLOWMETER	CYCLES	TEMP F° LARGE TANK	TEMP F° SMALL TANK	TEMP F° OAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS, PROBLEMS, & REMARKS (W/O#)
MONDAY	12/5	7 AM	4.1	5	9.90	9.85	–	–	1230	42	117	77	133				Forgot to Reset flow
		3 PM	3.5	15	9.73	9.83	–	–	2380	66	114	78	118				3 Cycles
		11PM	2.9	10	9.73	9.96	–	–	3357	118	114	79	103				
TUESDAY	12/6	7 AM	2.8	10	9.71	9.93	–	–	2121 / 3351	118	110	80	125				Forgot to Reset flow
		3 PM	2.8	10	10.03	9.83	–	–	4141	123	110	81	122				
		11PM	2.2	3	9.74	9.78	–	–	4773	143	115	82	106				
WEDNESDAY	12/10	7 AM	2.2	3	9.66	9.87	–	–	4934	143	111	81	125				
		3 PM	2.2	16	9.56	9.90			1635	17	127	80	118				
		11PM	2.0	12	9.73	9.84			2479	44	118	81	103				
THURSDAY	12/11	7 AM	2.0	12	11.74	9.74	–	–	2479	48	115	80	126				
		3 PM	7.5	2	9.63	9.75	–	–	1151	56	114	80	128				
		11PM	7.5	15	9.63	9.80			1839	81	117	81	125				
FRIDAY	12/12	7 AM	7.5	15	9.14	9.90	–	–	1839	88	117	79	106				
		3 PM	7.2	13	10.30	9.98	–	–	1064	10	116	81	107				
		11PM	7.2	11	10.45	10.31	–	–	2149	34	117	83	121				
SATURDAY																	
SUNDAY																	

\WOUT\500-0007, 03/04/99

AKC-0005849

4854
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1583

REF. DWG. NO. 500-0007 REV. A 1594

DAILY LOG

DAY	DATE	TIME	CAUSTIC LEVEL	FLOC. LEVEL	pH READING PROCESS MONITOR	pH READING OUTPUT MONITOR	pH PAPER PROCESS MONITOR	pH PAPER OUTPUT MONITOR	FLOWMETER	CYCLES	TEMP F° LARGE TANK	TEMP F° SMALL TANK	TEMP F° OAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS, PROBLEMS, & REMARKS (W/O#)
MONDAY	12-15-08	7 AM	6.0	11	7.25	10.37	-	-	2149	40	108	76	117				
		3 PM	6.0	11	10.64	10.36	-		692	0	103	75	125				
		11PM	6.0	11	9.92	10.35	-	-	1470	3	109	77	127				
TUESDAY	12-16-08	7 AM	5.7	11	9.83	10.94	-	-	1470	3	101	70	109				
		3 PM	5.7	11	9.66	11.50	-	-	1071	15	102	72	107				
		11PM	5.9	10	9.60	11.09	-	-	1475	26	106	71	120				
WEDNESDAY	12-17-08	7 AM	5.5	10	9.48	10.78	-	-	1479	39	101	70	108				
		3 PM	5.3	6	11.04	10.54	-	-	1578	24	106	78	114				
		11PM	5.7	2	9.61	10.45	-		3108	30	128	78	114				
THURSDAY	12-18-08	7 AM	5.1	2	9.57	10.42	-	-	3108	42	108	72	106				64
		3 PM	5.0				-	-	11	10	100	65	106				
		11PM	5.0	2	11.09	10.21	-	-	1161	10	100	65	106				
FRIDAY	12-19-08	7 AM	5.0	2	11.09	10.21	-	-	1161	10	100	65	106				
		3 PM	4.0	15	9.33	10.08	-	-	1211	1	101	61	107				
		11PM															
SATURDAY		5:30	4.0	15	9.33	10.08	-	-	1211	1	101	61	107				
SUNDAY																	

NOUT\500-0007 03/04/99

AKC-0005851

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REF. DWG NO. 500-0007 REV. A 1594

DAILY LOG

DAY	DATE	TIME	CAUSTIC LEVEL	FLOC. LEVEL	pH READING PROCESS MONITOR	pH READING OUTPUT MONITOR	pH PAPER PROCESS MONITOR	pH PAPER OUTPUT MONITOR	FLOWMETER	CYCLES	TEMP F° LARGE TANK	TEMP F° SMALL TANK	TEMP F° DAKITE TANK	REVETMENT LARGE RINSE	REVETMENT LARGE ACID	REVETMENT SMALL TANKS	COMMENTS,PROBLEMS,& REMARKS (W/O#)
MONDAY	12/22	7 AM	4.0	14	9.79	9.61	—	—	1153	11	101	58	112				
		3 PM	3.8	13	10.33	9.82	—	—	993	46	101	63	95				
		11PM	3.8	13	12.55	9.53	—	—	1011	60	101	60	70				
TUESDAY	12/23	7 AM	3.8	12	10.32	9.42											
		3 PM					—	—	1337	3	104	61	63				
		11PM	3.8	10	9.80	9.56	—	—	2556	25	69	58	59				
WEDNESDAY	12/24	7 AM															
		3 PM															Christmas
		11PM															
THURSDAY	12/25	7 AM															Holiday
		3 PM															
		11PM															
FRIDAY	12/26	7 AM	3.6	11	11.61	9.52	—	—	2558	33	112	68	48				64
		3 PM	3.6	10	10.08	9.64	—	—	518	11	111	64	89				
		11PM	23	7	9.66	9.56	—	—	2584	95	113	63	48				
SATURDAY																	
SUNDAY																	

..\WOUT\500-0007, 03/04/99

AKC-0005853

Industrial Waste Monthly Self-Monitoring Report

Mail or FAX to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001

AKC-0005854

Company Name: ALASKAN COPPER WORKS **Sample Site No.** A-4009 **Permit/DA No.:** 7201

Please Specify Month & Year: **Month** DECEMBER **2007**

This form is available at http://dnr.metrokc.gov/wlr/indwaste

All units are mg/l unless otherwise noted. Note: For cyanide circle test performed - amenable or total ▼

Sample Date (circle)	Sample Type C (Composite) G (grab) BC (batch)	pH Min	pH Max	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Silver, Ag	Zinc, Zn	Cyanide (CN) Amenable (A) or Total (T)	NP Fats, Oils, and Grease (Average of 3 grabs)		Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1																
2																
3																
4																
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8																
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10																
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31																

NOT IN USE THIS MONTH

Monthly Min pH		& Date	
Monthly Max pH		& Date	
Total Monthly Flow (gallons)			
Maximum Daily Flow		& Date	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that all data requiring a laboratory analysis were analyzed by a Washington State Department of Ecology accredited laboratory for each parameter tested.

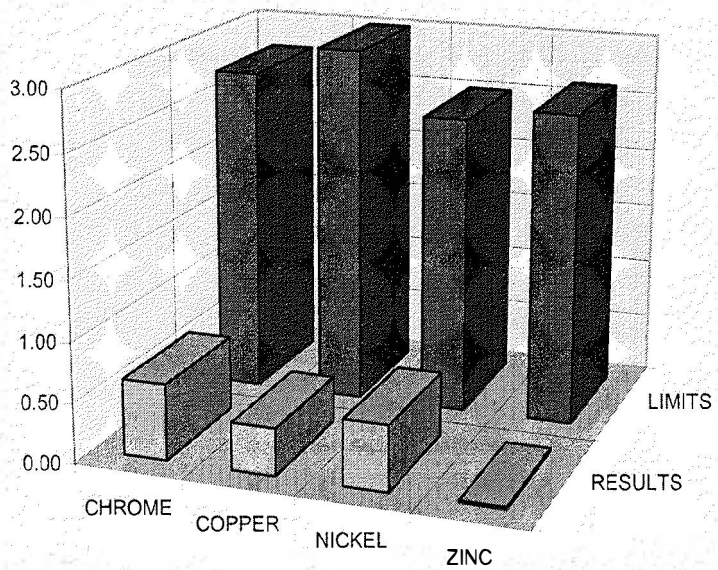
Signature of Principal Executive or Authorized Agent

1-15-09
Date

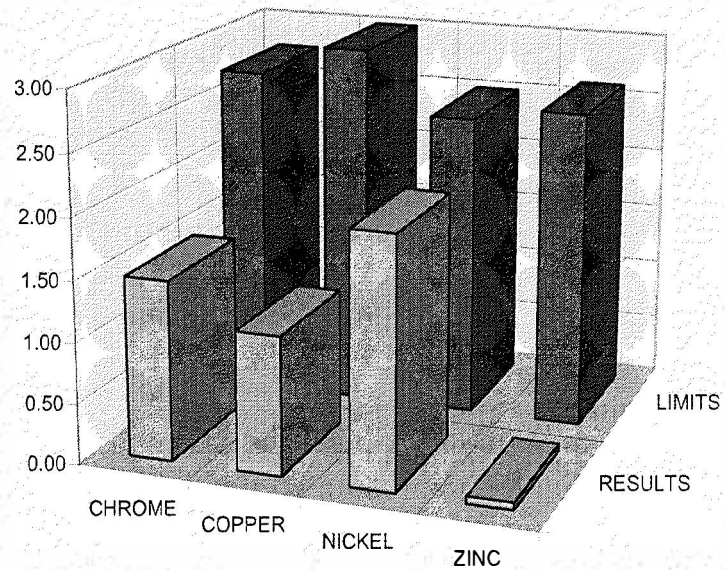
PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: **Monthly report is due by the 15th of each month.**

DECEMBER
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
DECEMBER 4, 2008
COMPOSITE M121272



ALASKAN COPPER WORKS
3200 FACILITY
DECEMBER 9, 2008
COMPOSITE M03416

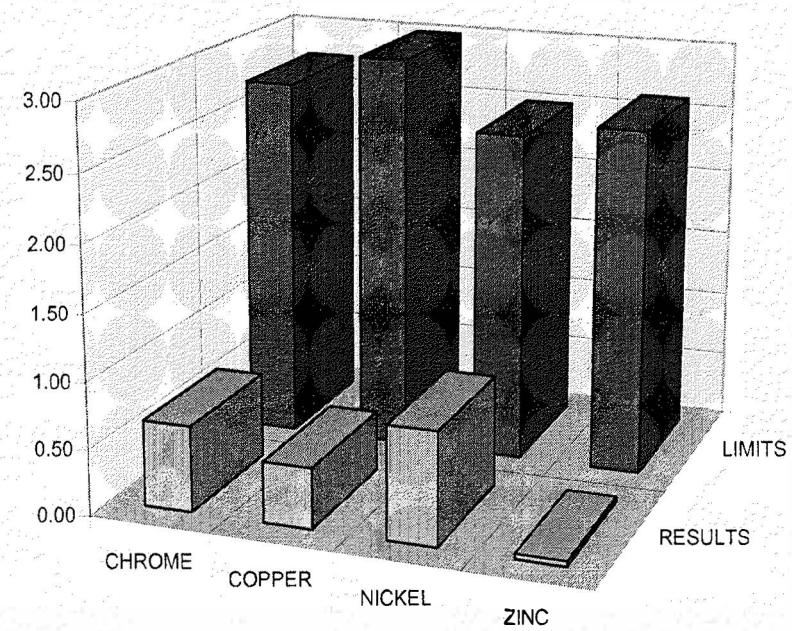
VISUAL REPRESENTATION OF THE LAB RESULTS

NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.63	0.39	0.54	0.02
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	1.48	1.14	2.04	0.06
LIMITS	2.75	3.00	2.50	2.61

DECEMBER
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
DECEMBER 26, 2008
COMPOSITE M121406

VISUAL REPRESENTATION OF THE LAB RESULTS

NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.65	0.46	0.85	0.04
LIMITS	2.75	3.00	2.50	2.61