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	1/28	7 AM	7.9	7	9.67	9.45	-	-	1163	40	98	126	123				CLEANED Sump 64
		3 PM	7.6	8	9.70	9.42	—	—	571	30	101	121	127				ok.
		11PM	7.3	6	10.51	9.43	—	—	1548	61	104	123	110				
TUESDAY	1/29	7 AM	7.3	6	10.12	9.50	—	—	1548	61	100	128	121				
		3 PM	7.3	6	9.71	9.47	-	-	408	14	100	113	118				
		11PM	7.3	5	10.03	9.48	—	—	673	14	97	118	114				
WEDNESDAY	1/30	7 AM	6.8	16	10.02	9.51	—	—	673	35	100	125	128				
		3 PM	6.2	15	11.55	9.52	—	—	612	21	101	122	120				
		11PM	6.2	12	10.52	9.60	—	—	1214	34	108	125	110				
THURSDAY		7 AM	6.2	12	9.58	9.64	—	—	1212	37	104	126	122				
		3 PM	6.2	12	10.19	9.59	—	—	741	13	110	127	121				
		11PM	5.5	10	11.63	9.56	—	—	1338	56	112	120	108				
FRIDAY		7 AM	5.4	10	12.05	9.60	—	—	1379	56	106	123	124				Cleaned Sumps 64
		3 PM	5.5	7	10.43	9.60	—	—	626	17	108	126	127				
		11PM	5.4	5	9.86	9.69	—	—	1051	28	127	127	106				
SATURDAY	2/1	700	5.5	5	11.79	9.75	—	—	1071	30	105	111	94				1 shift off
		1130	5.2	3	10.44	9.77	—	—	897	28	105	127	128				
SUNDAY																	

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

AKC-0006423

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	1/21	7 AM	10.7	13	10.12	9.23	–	–	1831	158	72	94	119				Boiler DnF
		3 PM	10.1 ~~9.87~~	12	9.87	9.26	–	–	498	23	73	106	121				
		11PM	9.6	10	11.86	9.42	–	–	1715	74	69	94	105				
TUESDAY	1/22	7 AM	9.6	10	11.35	9.54	–	–	415	86	67	105	114				Cleaned Sumps (56)
		3 PM	9.3	8	12.00	9.57	–	–	227	3?	72?	102	124				
		11PM	9.3	7	9.76	9.71	–	–	1102	16?	81	126	106				
WEDNESDAY	1/23	7 AM	9.3	7	9.94	9.54	–	–	1102	16	78	120	115				Barrel heater for Caustic - DNF - replaced by 2:00pm.
		3 PM	8.7	6	9.98	9.97	–	–	559	42	87	124	125				
		11PM	8.5	4	10.11	9.85	–	–	1131	79	92	119	110				
THURSDAY	1/24	7 AM	8.8	4	10.17	9.92	–	–	1131	79	92	125	121				Mixtank 7:88
		3 PM	8.6	14	9.58	9.93	–	–	205	33	100	119	125				
		11PM	8.3	12	9.98	9.84	–	–	1513	69	103	128	110				
FRIDAY	1/25	7 AM	8.1	15	9.81	9.79	–	–	1513	76	100	128	122				
		3 PM	8.1	9	9.65	9.64	–	–	537	22	107	122	123				
		11PM	8.1	8	9.78	9.61	–	–	933	39	105	118	107				
SATURDAY																	
SUNDAY																	

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

AKC-0006424

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	1/14	7 AM	15.7	4	11.62	9.68	—	—	1669	67	112	112	101				
		3 PM	15.1	17	9.61	9.49	—	—	754	27	115	125	122				
		11PM	14.9	12	10.55	9.60	—	—	1801	56	118	122	108				
TUESDAY	1/15	7 AM	14.9	12	11.55	9.54	—	—	1800	60	112	128	115				
		3 PM	14.3	12	12.25	9.51	—	—	2211	33	108	113	121				
		11PM	14.4	10	10.51	9.77	—	—	1136	46	99	99	110				
WEDNESDAY	1/16	7 AM	14.3	10	10.35	10.21	—	—	1331	50	96	113	121				Cleaned sups
		3 PM	14.1	8	9.65	10.19	—	—	612	16	102	122	122				
		11PM	13.8	5	9.70	10.09	—	—	1423	51	104	128	109				
THURSDAY	1/17	7 AM	13.8	5	12.20	9.85	—	—	1567	64	104	119	117				Cleaned sups (56)
		3 PM	13.3	3	9.78	9.73	—	—	530	40	105	113	122				
		11PM	13.0	17	10.76	9.66	—	—	1388	81	96	103	109				
FRIDAY	1/18	7 AM	13.0	17	10.00	9.61	—	—	1388	81	92	115	117				[redacted]
		3 PM	12.5	15	9.50	9.52	—	—	974	9	94	123	125				
		11PM	10.9	12	9.97	9.45	—	—	1069	153	102	119	109				
SATURDAY	1/19		11.0	12	11.82	9.43	—	—	1331	158	95	108	85				
SUNDAY																	

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

AKC-0006425

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	1-7	7 AM	19.6	13	9.76	9.34	—	—	703	87	110	119	128				
		3 PM	19.5	11	9.61	9.64	—	—	235	15	110	128	124				
		11PM	19.0	5	9.55	10.22	—	—	569	68	105	109	106				
TUESDAY	1-8	7 AM	19.1	5	9.51	10.26	—	—	1029	78	101	118	113				2 hrs Early Cleaned Sups 56
		3 PM	16.0	2	10.37	9.61	—	—	1902	95	106	125	106				
		11PM															
WEDNESDAY	1-9	7 AM	18.0	2		9.51	—	—	2071	99	108	124	120				
		3 PM	17.4	17	10.01	9.50	—	—	211	26	111	120	123				
		11PM	16.9	14	10.09	9.74	—	—	1285	82	111	125	109				
THURSDAY	1-10	7 AM	16.9	14	10.00	9.27	—	—	1285	89	107	126	115				
		3 PM	16.4	12	9.94	9.68	—	—	583	50	114	124	124				
		11PM	16.2	10	10.40	9.60	—	—	1504	76	119	128	110				
FRIDAY	1-11	7 AM	16.2	10	10.26	9.56	—	—	1504	76	119	118	118				
		3 PM	15.9	8	11.22	9.56	—	—	604	33	119	124	121				
		11PM	15.6	4 ~~11.44~~	11.94 ~~9.68~~	9.68	—	—	1621	63	119	128	113				
SATURDAY		600	15.7	4	11.62	9.69	—	—	1669	67	112	112	101				1 sh. 8# Cleaned Sups 66
SUNDAY																	

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

AKC-0006426

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	12/31	7 AM	23.5	15	11.59	9.51	-	-	622	65	93	119	128				
		3 PM	23.0	12	10.25	9.91	—	—	1335	41	96	128	127				
		11PM	22.7	11	10.26	10.29	—	—	1810	74	100	128	112				
TUESDAY	1/1	7 AM															Closed New Years Day
		3 PM															
		11PM															
WEDNESDAY	1/2	7 AM	22.7	11	9.50	9.91	-	-	1810	74	112	128	84				
		3 PM	22.5	10	10.10	10.11	—	—	680	35	107	111	127				
		11PM	22.2	8	10.60	9.95	—	—	1221	66	100	97	106				
THURSDAY	1/3	7 AM	22.2	8	9.55	9.80	-	-	1221	66	90	93	115				Cleaned Sugs 64
		3 PM	21.9	7	11.52	9.76	—	—	1779	40	96	128	123				
		11PM	21.7	4	10.84	9.72	—	—	2989	88	102	124	106				
FRIDAY	1/4	7 AM	21.7	4	10.22	9.64	—	—	1881/3131	88	100	127	111				
		3 PM	21.4	17	9.50	9.56	—	—	194	~~108~~ 50	108	128	122				
		11PM	20.7	15	9.90	9.57	—	—	1693	115	113	121	107				
SATURDAY	1/5	8:00	20.6	15	10:30	9.54	—	—	1693	119	103	107	93				
		4:30	19.8	12	11.76	9.67	—	—	703	70	108	120	119				
SUNDAY																	

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

AKC-0006427

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-0006428

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

Please Specify Month & Year: **Month** JANUARY **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		9.9	10.1												1810	
3		9.7	9.8												1221	
4		9.5	9.6												1881	
(5)	C	9.5	9.6		.12	.10			.11		.01				1693	
6		--------	--------												----------	
7		9.6	10.2												703	
8		9.6	10.2												1029	
9		9.5	9.7												2071	
(10)	C	9.5	9.6		.75	.75			1.00		.16				1285	
11		9.5	9.6												1504	
12		--------	--------												----------	
13		--------	--------												----------	
14		9.5	9.6												1669	
15		9.5	9.7												1800	
16		10.0	10.2												1331	
(17)	C	9.6	9.8		.67	.42			.60		.01				1567	
18		9.5	9.6												1388	
19		--------	--------												----------	
20		--------	--------												----------	
21		9.5	9.5												1831	
22		9.5	9.7												1715	
23		9.5	9.9												1102	
24		9.8	9.9												1131	
25		9.6	9.7												1513	
26		--------	--------												----------	
27		--------	--------												----------	
28		9.5	9.5												1163	
29		9.6	9.7												1548	
30		9.5	9.6												673	
(31)	G	9.5	9.6		.60	.66			.70		.01				1212	

Monthly Min pH	9.5	& Date	1-5-08	Total Monthly Flow (gallons)	32840
Monthly Max pH	10.2	& Date	1-7-08	Maximum Daily Flow	2071 & Date 1-9

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

2-14-08
Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

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-0006429

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

Please Specify Month & Year: **Month** JANUARY **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																
5																
6																
7																
8																
9																
10																
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31																

NOT IN USE THIS MONTH

Monthly Min pH _____ & Date _____ Total Monthly Flow (gallons) _____

Monthly Max pH _____ & Date _____ 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.

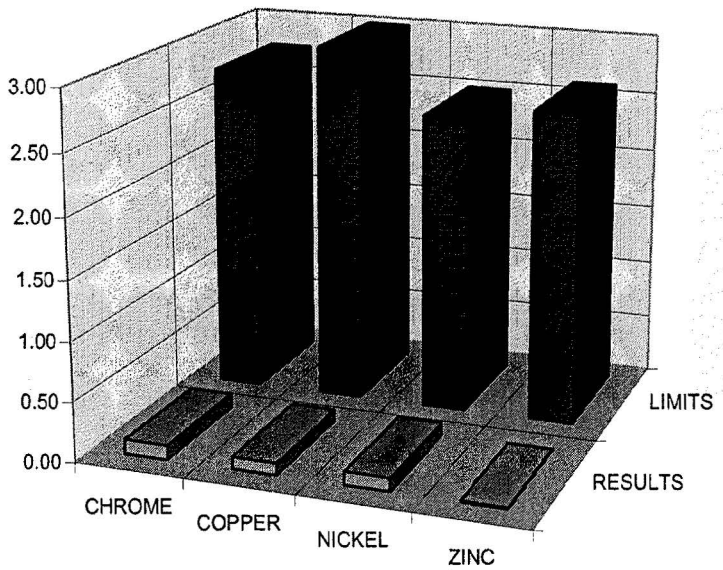
Signature of Principal Executive or Authorized Agent

2-14-08
Date

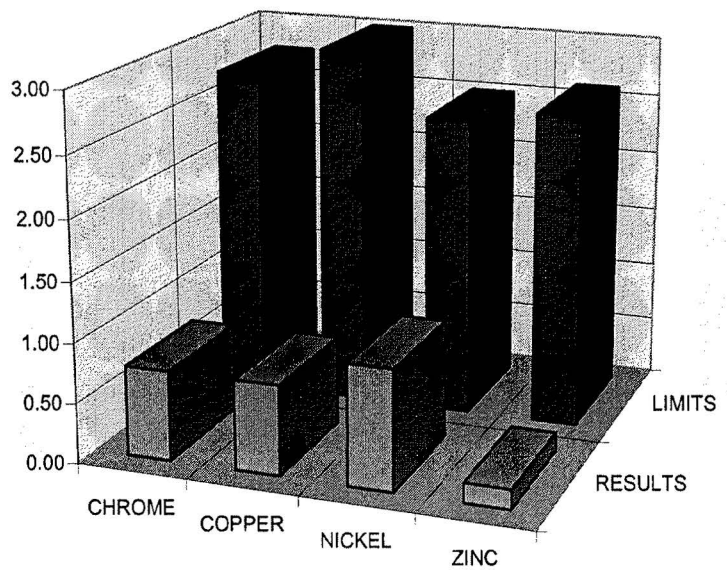
PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

JANUARY
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
JANUARY 5, 2008
COMPOSITE M118328



ALASKAN COPPER WORKS
3200 FACILITY
JANUARY 10, 2008
COMPOSITE M118368

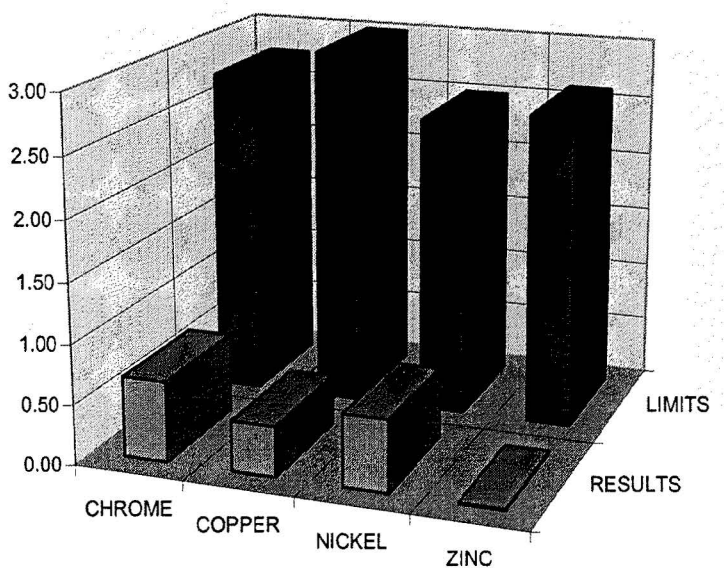
VISUAL REPRESENTATION OF THE LAB RESULTS

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

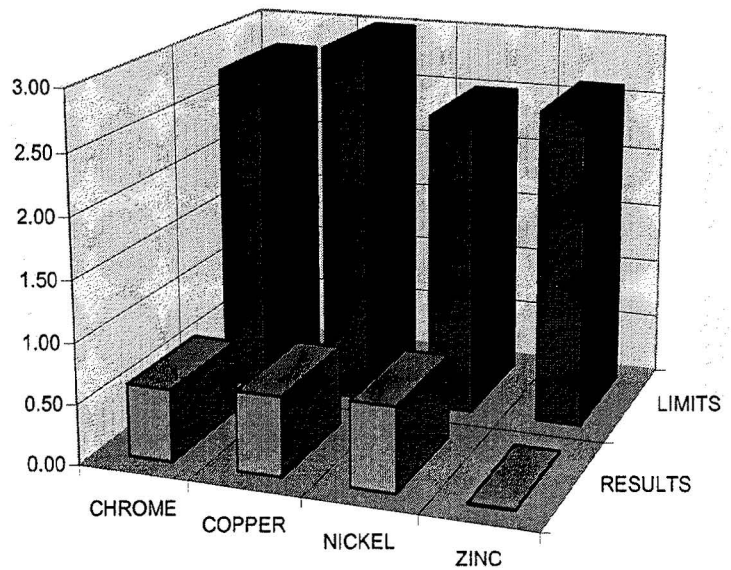
	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.12	0.10	0.11	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.75	0.75	1.00	0.16
LIMITS	2.75	3.00	2.50	2.61

JANUARY
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
JANUARY 17, 2008
COMPOSITE M01768



ALASKAN COPPER WORKS
3200 FACILITY
JANUARY 31, 2008
GRAB M118582

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	0.67	0.42	0.60	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.60	0.66	0.70	0.01
LIMITS	2.75	3.00	2.50	2.61