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		7 AM	4.2	7	9.98	10.30	–	–	1779	27	122	114	114				Labor day
		3 PM	4.2	19	11.80	10.46	–	–	946	7	127	117	125				
		11PM	3.9	16	9.89	10.31	–	–	1764	37	118	120	128				
TUESDAY	9/13	7 AM	3.9	16	12.23	10.40	–	–	1764	37	121	122	132				
		3 PM	3.6	15	10.54	10.57	–	–	664	7	128	121	126				
		11PM	2.6	12	12.18	10.46	–	–	1857	25	125	121	128				
WEDNESDAY	9/14	7 AM	2.6	12	11.28	10.50	–	–	208	25	119	122	131				
		3 PM	2.6	11	9.36	10.45	–	–	422	7	121	119	125				
		11PM	2.00	8	11.52	10.59	–	–	1665	35	124	128	125				
THURSDAY	9/15	7 AM	30.1	8	11.51	10.49	–	–	1878	39	117	113	127				
		3 PM	30.1	7	9.57	10.33	–	–	423	9	122	123	127				
		11PM	29.8	2	9.70	10.37	–	–		21	126	123	129				
FRIDAY	9/16	7 AM															
		3 PM															
		11PM															
SATURDAY																	
SUNDAY																	

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

AKC-0009088

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	9/9	7 AM	28.6	2	10.54	10.17	—	—	2175	2?	120	127	121				
		3 PM	28.5	14	10.83	10.34	—	—	1602	7	126	116	126				
		11PM	28.5	11	11.42	10.36	—	—	1602	55	123	127	126				
TUESDAY	9/10	7 AM	27.6	10	11.61	10.23	—	—	2300	67	121	123	125				
		3 PM	27.6	7	10.88	10.10	—	—	Ø	8	121	118	121				
		11PM	27.6	7	10.01	10.32	—	—	977	10	125	121	126				
WEDNESDAY	9/11	7 AM	27.7	7	10.72	10.33	—	—	977	10	123	120	131				
		3 PM	27.6	7	10.79	10.34	—	—	383	0	121	120	127				
		11PM	27.4	5	10.02	10.40	—	—	1359	18	122	125	125				
THURSDAY	9/12	7 AM	27.4	5	10.47	10.40	—	—	1612	18	116	118	123				
		3 PM	27.5	19	10.44	10.32	—	—	426	3	123	118	130				
		11PM	27.0	17	9.80	10.20	—	—	1245	41	125	124	130				
FRIDAY	9/13	7 AM	27.0	17	10.07	10.20	—	—	1443	43	118	115	126				
		3 PM	26.4	15	10.40	10.05	—	—	626	29	124	118	126				
		11PM	25.4	13	10.59	9.82	—	—	1574	81	125	120	126				
SATURDAY																	
SUNDAY																	

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

AKC-0009089

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	9/16	7 AM	25.4	11	10.33	9.57	—	—	1920	85	119	117	124				
		3 PM	24.3	9	9.74	10.06	—	—	1077	50	125	126	127				
		11PM	23.8	8	10.39	10.04	—	—	1789	73	126	118	126				
TUESDAY	9/17	7 AM	23.8	7	11.71	9.97	—	—	2082	77	121	117	124				
		3 PM	23.4	6	10.70	9.96	—	—	530	18	119	128	127				
		11PM	22.6	3	10.08	9.98	—	—	1659	61	121	130	129				
WEDNESDAY	9/18	7 AM	22.7	3	11.12	10.04	—	—	1659	63	117	119	129				
		3 PM	21.6	16	11.90	10.04	—	—	686	35	121	122	126				
		11PM	21.5	15	9.87	10.09	—	—	1922	51	127	124	130				
THURSDAY	9/19	7 AM	21.4	14	10.70	10.41	—	—	2329	52	123	128	122				
		3 PM	20.4	13	10.71	10.23	—	—	461	32	121	120	126				
		11PM	20.1	9	9.50	10.04	—	—	1665	50	123	121	126				
FRIDAY	9/20	7 AM	20.0	9	11.76	9.96	—	—	1507	51	115	115	124				
		3 PM	20.1	7	10.89	9.91	—	—	524	6	122	126	127				
		11PM	19.6	6	9.01	9.88	—	—	1502	32	120	122	127				
SATURDAY																	
SUNDAY																	

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

AKC-0009090

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	9/23	7 AM	19.6	5	10.68	9.81	—	—	1825	36	119	118	120				
		3 PM	19.6	5	10.10	9.81	—	—	689	41	127	125	129				
		11PM	19.0	3	10.73	10.13	—	—	1273	58	125	128	128				
TUESDAY	9/24	7 AM	19.1	18	11.64	10.21	—	—	1759	61	118	121	128				
		3 PM	19.1	17	10.68	10.26	—	—	354	6	121	120	125				
		11PM	18.3	15	11.19	10.32	—	—	1397	34	121	122	126				
WEDNESDAY	9/25	7 AM	18.3	15	11.72	10.28	—	—	1525	34	118	119	124				Forgot to Reset Flow & Cycles
		3 PM	18.3	13	11.03	10.24	—	—	1861	42	124	119	128				
		11PM	17.0	8	9.78	10.29	—	—	2659	76	124	126	129				
THURSDAY	9/26	7 AM	17.0	8	10.25	10.22	—	—	1491 / 29.56	36 / 78	116	125	121				2956 1525 1431
		3 PM	17.0	7	11.04	10.01	—	—	411	13	118	128	126				
		11PM	15.7	3	10.26	9.85	—	—	1388	49	121	118	127				
FRIDAY	9/27	7 AM	15.7	3	10.80	9.82	—	—	1631	53	117	117	126				
		3 PM	15.7	15	11.80	9.98	—	—	379	12	126	119	127				
		11PM	14.6	13	9.51	10.04	—	—	1205	42	122	119	127				
SATURDAY																	
SUNDAY																	

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

AKC-0009091

Industrial Waste Discharge 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

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

Please indicate reporting period:

Month SEPTEMBER **2002** **Quarter 1 2 3 4** *(circle one)* **20** **Semi-Annual Annual** *(circle one)* **20 ____**

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (composite) or G (grab)	pH Min	pH Max	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Silver, Ag	Zinc, Zn	Cyanide, CN	Fats, Oils, and Grease (FOG)	Other Parameters		Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1		-----	-----													----------	
2		-----	-----													----------	LABOR DAY
3		10.3	10.4													1779	
4		10.4	10.5													1764	
(5)	G	10.4	10.5		.45	.58			.27		.10					2075	
6		10.3	10.4													1878	
7		-----	-----													----------	
8		-----	-----													----------	
9		10.1	10.3													2175	
10		10.1	10.3													2300	
11		10.3	10.4													977	
(12)	C	10.2	10.4		.49	.28			.19		.10					1612	
13		9.8	10.2													1443	
14		-----	-----													----------	
15		-----	-----													----------	
16		9.5	10.0													1920	
17		9.9	9.9													2082	
18		10.0	10.0													1659	
(19)	C	10.0	10.4		.90	1.10			.91		.10					2329	
20		9.8	9.9													1907	
21		-----	-----													----------	
22		-----	-----													----------	
23		9.8	10.1													1825	
24		10.2	10.3													1739	
25		10.2	10.2													1525	
26		9.8	10.3													1437	
(27)	C	9.9	10.0		.28	.24			.21		.10					1631	
28		-----	-----													----------	
29		-----	-----													----------	
30		9.6	9.9													1783	
31	---------	-----	------	-------	-------	-------	-------	-------	-------	-------	-------	-------	------	------	------	----------	----------

Monthly Min pH	9.5	& Date	9-16	Total Monthly Flow (gallons)	35840
Monthly Max pH	10.5	& Date	9-5	Maximum Daily Flow	2329 & Date 9-19

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 — Date 10/7/02

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

AKC-0009092

Industrial Waste Discharge 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

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

Please indicate reporting period:

Month SEPTEMBER **2002** **Quarter** 1 2 3 4 **20** (circle one) **Semi-Annual** **Annual** **20**____ (circle one)

All units are mg/l unless otherwise noted.

Sample Date (circle)	Sample Type C (composite) or G (grab)	pH Min	pH Max	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Silver, Ag	Zinc, Zn	Cyanide, CN	Fats, Oils, and Grease (FOG)	Other Parameters		Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1																	
2																	
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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.

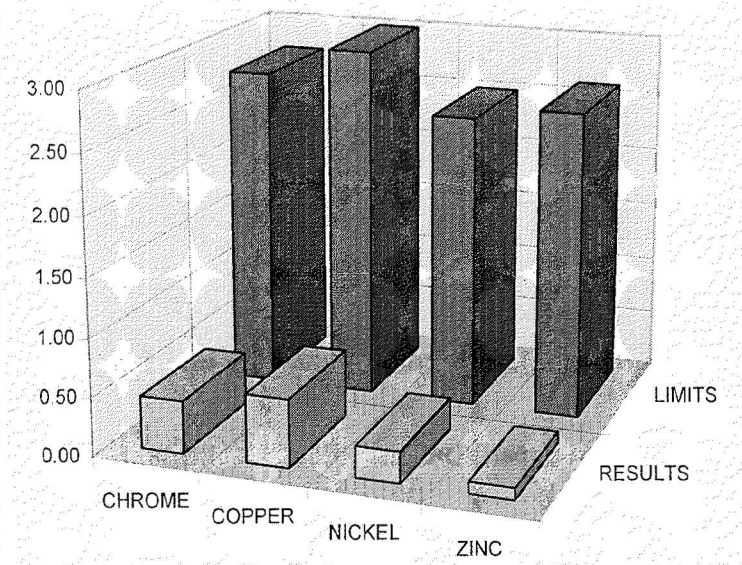
Signature of Principal Executive or Authorized Agent: Jamey Dunn Date: 10/7/02

PLEASE CIRCLE ALL PERMIT VIOLATIONS

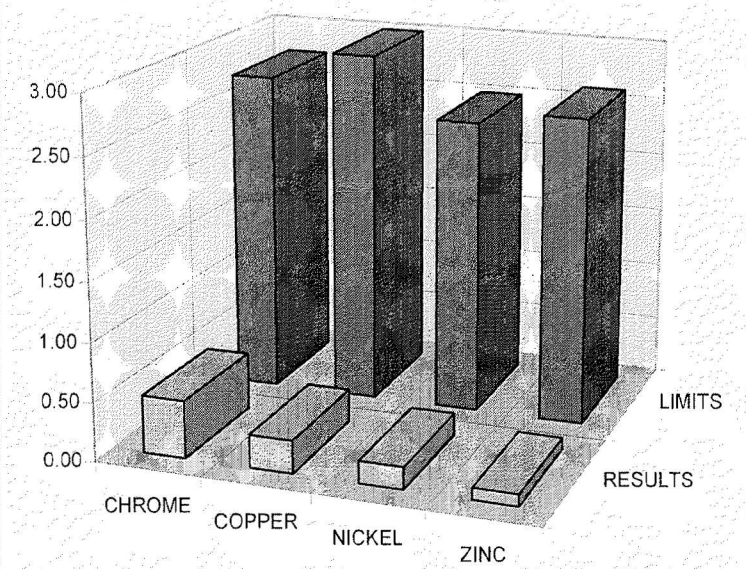
This form is available at http://dnr.metrokc.gov/wlr/indwaste/index.htm

AKC-0009099

SEPTEMBER
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
SEPTEMBER 5, 2002
GRAB M68630



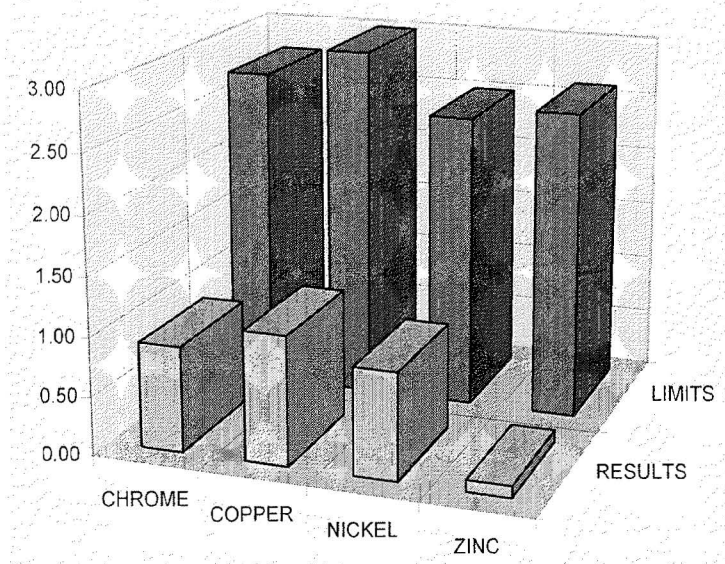
ALASKAN COPPER WORKS
3200 FACILITY
SEPTEMBER 12, 2002
COMPOSITE M68676

VISUAL REPRESENTATION OF THE LAB RESULTS

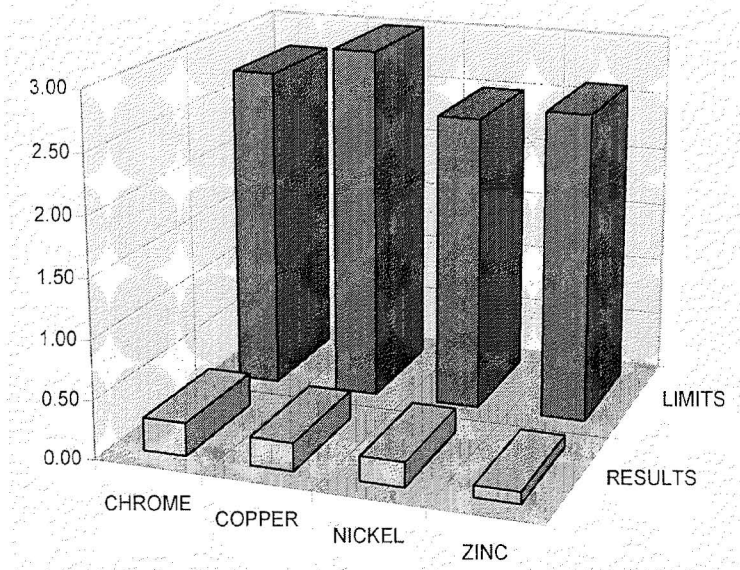
	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.45	0.58	0.27	0.10
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.49	0.28	0.19	0.10
LIMITS	2.75	3.00	2.50	2.61

SEPTEMBER
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
SEPTEMBER 19, 2002
COMPOSITE M68717



ALASKAN COPPER WORKS
3200 FACILITY
SEPTEMBER 27, 2002
COMPOSITE M68764

VISUAL REPRESENTATION OF THE LAB RESULTS

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.90	1.10	0.91	0.10
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.28	0.24	0.21	0.10
LIMITS	2.75	3.00	2.50	2.61