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	1/25	7 AM	19.9	15	11.45	9.74	—	—	2131	140	126	124	125				
		3 PM	19.4	12	10.02	10.73	—	—	1123	47	113	123	128				
		11PM	19.1	10	9.99	10.22	—	—	1551	59	118	125	126				
TUESDAY	1/26	7 AM	18.9	10	—	9.51	—	—	1903	70	113	122	127				
		3 PM	18.4	8	14.50	9.92	—	—	167	39	115	123	129				
		11PM	18.1	7	Err	9.52	—	—	1198	16?	118	126	126				
WEDNESDAY	1/27	7 AM	17.6	7	—	9.44	—	—	1198	0?	113	122	130				
		3 PM	16.8	19	10.44	9.33	—	—	527	30	115	128	130				
		11PM	16.8	17	10.01	9.60	—	—	1110	54	126	120	124				
THURSDAY	2/1	7 AM	16.0	16	9.63	9.58	—	—	1299	67	117	115	129				
		3 PM	16.6?	14	10.44	9.52	—	—	954	21	118	123	126				
		11PM	15.8	10	9.75	9.66	—	—	1368	63	123	125	126				
FRIDAY	2/2	7 AM	15.8	10	9.99	9.60	—	—	1740	66	119	115	128				
		3 PM	15.5	7	10.18	9.44	—	—	783	20	121	121	125				
		11PM	15.3	6	10.01	9.64	—	—	1403	44	121	126	124				
SATURDAY																	
SUNDAY																	

\\WOTT\500-0007. 03/04/99

AKC-0009818

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	01/02	7 AM	23.8	6	10.38	10.32	—	—	1767	70	114	117	95				
		3 PM	22.7	18	9.73	9.27	—	—	1316	44	117	67?	126				
		11PM	22.2	14	11.12	9.73	—	—	2337	70	118	120	128				
TUESDAY	01/03	7 AM	22.0	13	10.21	9.89	—	—	2873	79	115	122	125				
		3 PM	21.4	10	10.01	10.15	/	/	815	30	120	126	129				
		11PM	20.1	7	10.67	10.04	/	/	1680	59	125	120	127				
WEDNESDAY	01/03	7 AM	22.0	13	10.01	9.89			2873	79	115	127	125				
		3 PM	21.4	10	10.01	10.15	/	/	815	30	120	126	129				
		11PM	20.1	7	10.67	10.04	/	/	1680	59	125	120	127				
THURSDAY	01/04	7 AM	20.2	7	9.64	10.12	—	—	1924	65	118	125	127				
		3 PM	20.2	18	9.59	9.67	/	/	712	18	121	120	130				
		11PM	18.8	16	10.01	9.66	/	/	1833	59	122	123	128				
FRIDAY	01/05	7 AM	18.9	15	11.19	9.71	—	—	2218	69	117	124	128				
		3 PM	18.3	14	10.32	9.89	—	—	494	26	124	121	130				
		11PM	18.1	12	10.31	9.51	/	/	1273	57	126	123	130				
SATURDAY																	
SUNDAY																	

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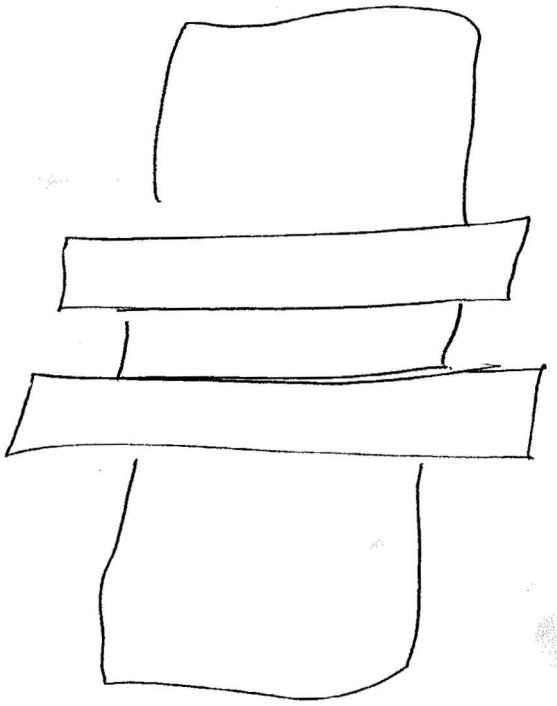
AKC-0009819



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	01/08	7 AM	18.7	11	9.78	10.07	—	—	420	62	122	121	128	—	—	—	
		3 PM	17.0	9	10.09	9.72	—	—	1003	84?	121	124	125	—	—	—	
		11PM	16.8	6	10.01	10.12	—	—	1622	107	125	122	126				
TUESDAY	01/09	7 AM	16.5	5	12.61	10.12	—	—	1990	119	118	117	126				
		3 PM	15.8	15	5.47	10.01	/	/	398	40	121	126	127				
		11PM	14.7	11	10.33	10.00	/	/	1470	80	109	103	128				
WEDNESDAY	01/10	7 AM	14.4	10	11.76	10.00	—	—	1470	94	100	97	127				Forgot to Reset Flow + Cycles
		3 PM	14.2	9	10.87	10.13	—	—	2065	112	102	118	129				
		11PM	13.2	7	9.87	10.53	/	/	2892	154	110	118	128				
THURSDAY	01/11	7 AM	12.9	7	9.51	10.34	—	—	1706 / 3176	73 / 167	105	117	127				3176 − 1470 = 1706; 167 − 94 = 73
		3 PM	16.3	21	12.10	10.21	—	—	267	18	110	123	130				
		11PM	15.8	17	10.01	10.42	/	/	1268	66	117	126	130				
FRIDAY	01/12	7 AM	15.8	16	9.86	10.46	—	—	1515	74	115	119	128				
		3 PM	14.7	15	9.90	9.96	—	—	871	46	116	126	127				
		11PM	14.2	12	9.84	9.96	/	/	1349	74	124	121	126				
SATURDAY	01/13	7:00	13.2	10	9.52	10.50	/	/	[illegible]	12	112	112	101				
		12:00	11.7	7	10.77	9.99	/	/	913	210	112	122	126				
		5pm	11.1	5	9.69	9.31	/	/	1437	36	107	116	129				
SUNDAY																	

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AKC-0009821

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	11/15	7 AM	11.2	5	9.83	9.83	/	/	1437	41	79	82	90				
		3 PM	9.9	15	9.42	10.74	/	/	658	29	86	106	126				
		11PM	8.2	13	16.3	10.42	/	/	1543	110	85	100	129				
TUESDAY	11/16	7 AM	8.0	12	11.1	10.31	/	/	1735	128	84	101	124				
		3 PM	7.2	10	11.30	10.19	/	/	693	51	91	115	127				
		11PM	5.6	8	9.78	10.12	/	/	1517	146	95	119	125				
WEDNESDAY	11/17	7 AM	5.4	7	9.99	10.13	/	/	1709	162	92	112	117				
		3 PM	4.1	5	9.73	10.12	/	/	862	63	98	124	128				
		11PM	3.8	3	11.89	10.06	/	/	1631	93	103	130	127				
THURSDAY	11/18	7 AM	3.8	1	10.94	9.99	/	/	1659	93	103	119	123				
		3 PM	32.6	14	10.62	10.42	/	/	560	48	107	128	129				
		11PM	32.4	12	10.29	10.13	—	—	1235	56	118	125	130				
FRIDAY	11/19	7 AM	32.2	11	10.34	10.18	/	/	1334	58	113	119	126				
		3 PM	31.0	8	11.91	10.03	—	—	1016	81	114	128	129				
		11PM	30.3	4	10.33	9.90	—	—	2014	135	124	126	127				
SATURDAY																	
SUNDAY																	

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

AKC-0009822

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	1/22	7 AM	29.8	2	10.70	9.70	–	–	2014	154	119	128	116				
		3 PM	29.5	18	10.67	9.82	–	–	1111	18	117	119	88				
		11PM	28.7	12	10.01	10.16	–	–	2325	58	118	126	127				
TUESDAY	1/23	7 AM	28.7	10	9.54	9.91	–	–	2688	69	111	113	126				
		3 PM	27.9	7	9.87	9.81	–	–	363	43	114	129	126				
		11PM	26.6	2	10.71	9.76	–	–	1230	22	116	126	128				
WEDNESDAY	1/24	7 AM	26.7	2	9.54	9.73	–	–	1350	124	111	121	130				
		3 PM	26.1	14	9.52	9.56	–	–	756	177	111	130	127				
		11PM	24.6	10	10.38	9.60	–	–	1701	247	115	126	126				
THURSDAY	1/25	7 AM	24.6	10	9.60	9.55	–	–	1701	259	109	122	130				
		3 PM	23.3	8	10.60	9.11	–	–	505	60	110	129	130				
		11PM	22.5	5	10.97	9.17	–	–	1839	124	115	125	118				
FRIDAY	1/26	7 AM	22.2	5	11.90	9.27	–	–	2024	139	109	120	[illegible]				
		3 PM	21.5	19	10.25	9.60	–	–	514	33	115	120	123				
		11PM	20.4	15	10.03	9.64	–	–	1851	123	115	127	125				
SATURDAY	1/27																
SUNDAY	1/28																

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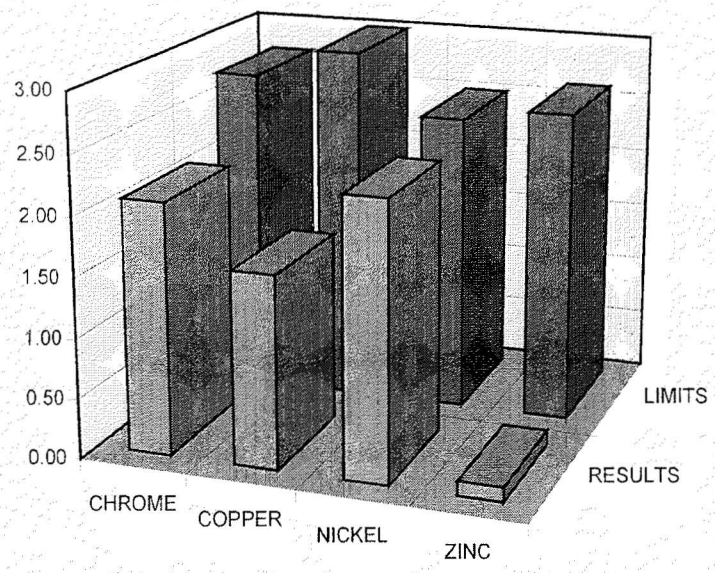
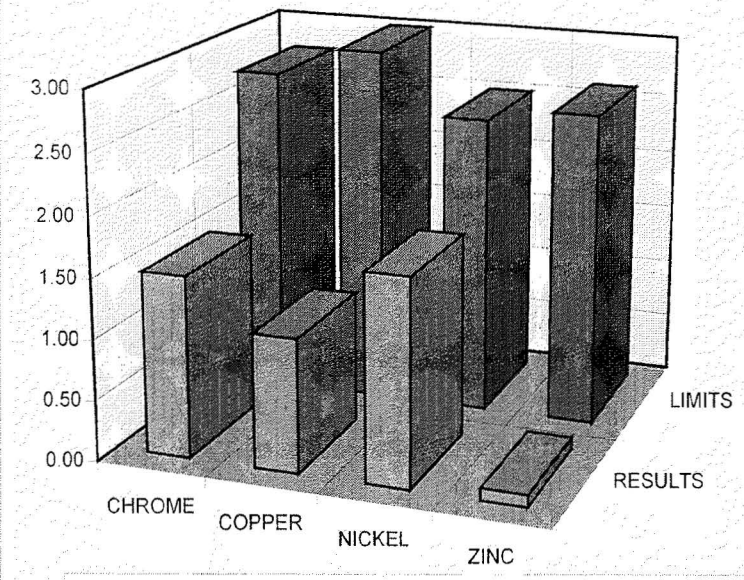
AKC-0009823

JANUARY
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
JANUARY 18, 2001
COMPOSITE M65177



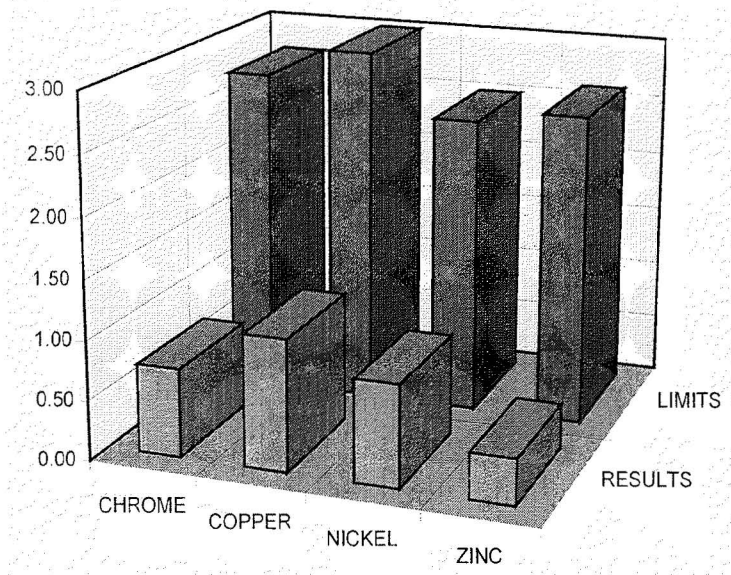
ALASKAN COPPER WORKS
3200 FACILITY
JANUARY 25, 2001
COMPOSITE M65299

VISUAL REPRESENTATION OF THE LAB RESULTS

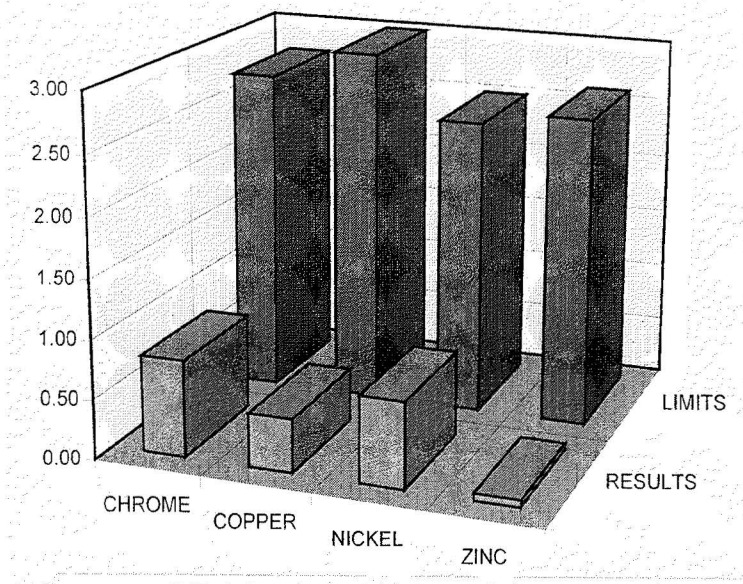
	CHROME	COPPER	NICKEL	ZINC
RESULTS	2.10	1.60	2.30	0.12
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	1.50	1.10	1.70	0.10
LIMITS	2.75	3.00	2.50	2.61

JANUARY
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
JANUARY 5, 2001
COMPOSITE M65133



ALASKAN COPPER WORKS
3200 FACILITY
JANUARY 11, 2001
COMPOSITE M65168

VISUAL REPRESENTATION OF THE LAB RESULTS

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.74	1.10	0.85	0.38
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.81	0.45	0.72	0.06
LIMITS	2.75	3.00	2.50	2.61

KING COUNTY
Department of Natural Resources

Waste Discharge Self-Monitoring Report

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

AKC-0009826

Company Name: Alaskan Copper Works
Month: January 20 01
No. of Employees (per day) Average: ____ Maximum: ____
Sample Site No.: A-4009
Permit/DA No.: 7201
All units mg/l unless otherwise noted
Industry Type: ____

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,A	Cyanide, CN,T	Fats, Oils and Grease (FOG)	Total Toxic Organics (TTO)	Other Parameters			✓check maximum	Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
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27																					
28																					
29																					
30																					
31																					
Monthly Minimum																					
Monthly Maximum																					
Average																				Total Monthly Flow (Gallons)	

NOT IN USE THIS MONTH

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: James C. Hatch
Date: 2/16/01

Please circle all permit violations

1330 (Rev. 1/00)

King County
Department of Natural Resources

Waste Discharge Self-Monitoring Report

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

AKC-0009827

Company Name: Alaskan Copper Works Month: January 20 01 No. of Employees (per day) Average ____ Maximum ____

Sample Site No.: A-4010 Permit/DA No.: 7238 All units mg/l unless otherwise noted Industry Type ____

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,A	Cyanide, CN,T	Fats, Oils and Grease (FOG)	Total Toxic Organics (TTO)	Other Parameters			✓check maximum	Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1		—	—																		New Year's Day
2		9.2	10.3																	1767	
3		9.8	10.1																✓	2873	
4		9.6	10.1																	1924	
5	C	9.5	9.8		.74	1.1			.85		.38									2218	
6		—	—																		
7		—	—																		
8		9.7	10.1																	1420	
9		10.0	10.1																	1990	
10		10.0	10.5																	1470	
11	C	10.2	10.4		.81	.45			.72		.06									1706	
12		9.6	10.4																	1515	
13		9.3	10.5																	2002	
14		—	—																		
15		9.8	10.7																	1437	
16		10.1	10.3																	1735	
17		10.0	10.1																	1709	
18	C	9.9	10.4		2.1	1.6			2.3		.12									1659	
19		9.9	10.1																	1334	
20		—	—																		
21		—	—																		
22		9.7	10.1																	2014	
23		9.7	9.9																	2688	
24		9.5	9.7																	1350	
25	C	9.1	9.5		1.5	1.1			1.7		.10									1701	
26		9.2	9.6																	2024	
27		—	—																		
28		—	—																		
29		9.7	10.7																	2131	
30		9.5	9.9																	1903	
31		9.3	9.6																	1198	
Monthly Minimum		9.1																		1198	
Monthly Maximum		10.7																		2873	
Average		9.9																		41768	Total Monthly Flow (Gallons)

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 2/14/01

Please circle all permit violations

1330 (Rev. 1/00)