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-0009471

Company Name: Alaskan Copper Works Month: November 2001 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		9.7	9.9																	2228	
2		9.8	10.2																	1620	
3		—	—																	—	
4		—	—																	—	
5		9.7	9.9																	1212	
6		9.8	9.8																✓	2975	
7		9.9	10.0																	2165	
8	C	9.8	10.1		.66	.66			.74		.05									1672	
9		9.9	10.1																	1780	
10		—	—																	—	
11		—	—																	—	
12		9.7	10.0																	1757	
13		10.0	10.1																	1991	
14		10.0	10.1																	1218	
15	C	9.9	10.0																	2440	
16		10.0	10.2		.75	.66			.75		.11									2246	
17		—	—																	—	
18		—	—																	—	
19		10.0	10.4																	962	
20		10.2	10.4																	2009	
21	C	10.0	10.1		.34	.26			.31		.05									1894	
22		—	—																	—	
23		—	—																	—	
24		—	—																	—	
25		—	—																	—	
26		9.6	10.0																	2126	
27		10.1	10.3																	1651	
28		9.9	10.1																	1164	
29	C	9.9	10.1		.25	.40			.26		.10									1960	
30		9.9	10.2																	1413	
31																					
Monthly Minimum		9.6																		962	
Monthly Maximum		10.4																		2975	
Average		9.9																		1824	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: [signature] Date: 12/07/01

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-0009472

Company Name: ALASKAN COPPER WORKS Month: NOVEMBER 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																					
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27																					
28																					
29																					
30																					
31																					
Monthly Minimum																					
Monthly Maximum																					
Average																					Total Monthly Flow (Gallons)

NOT IN USE THIS MONTH

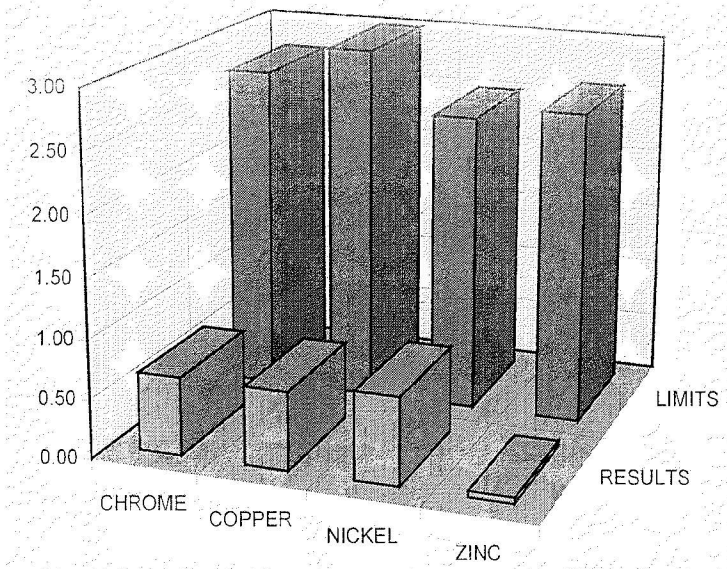
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 Date 12/03/01

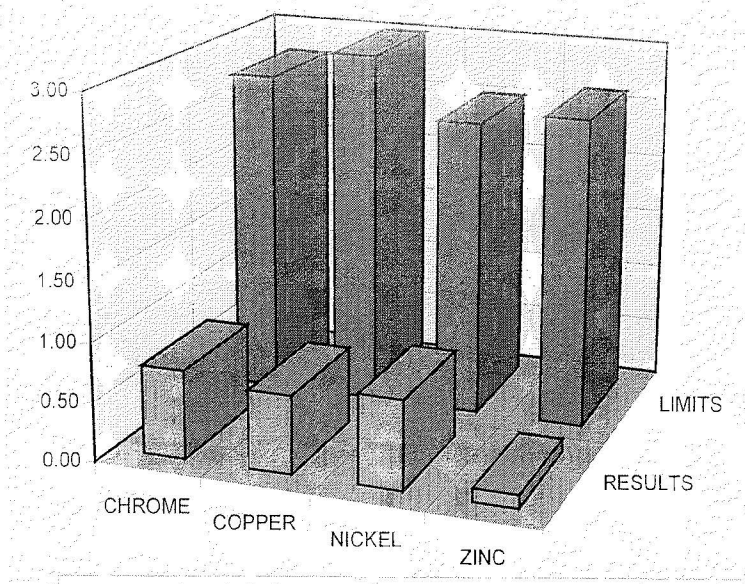
Please circle all permit violations

1330 (Rev. 1/00)

NOVEMBER
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
NOVEMBER 8, 2001
COMPOSITE M67034



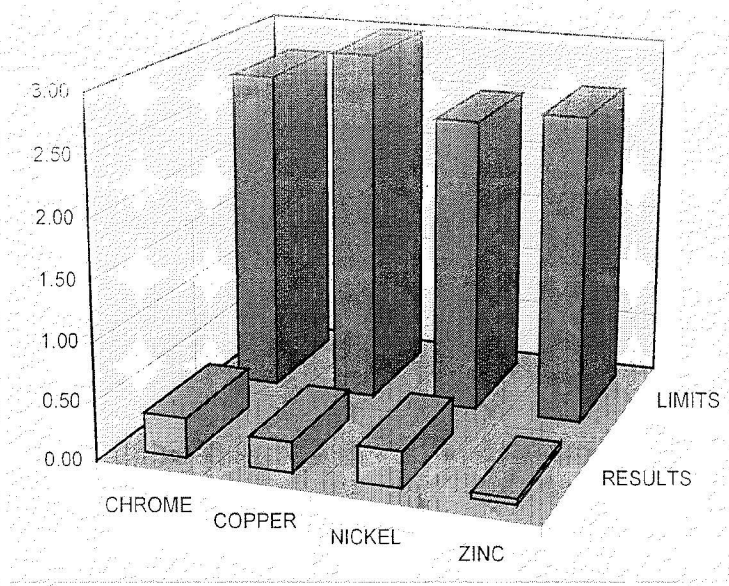
ALASKAN COPPER WORKS
3200 FACILITY
NOVEMBER 15, 2001
COMPOSITE M67071

VISUAL REPRESENTATION OF THE LAB RESULTS

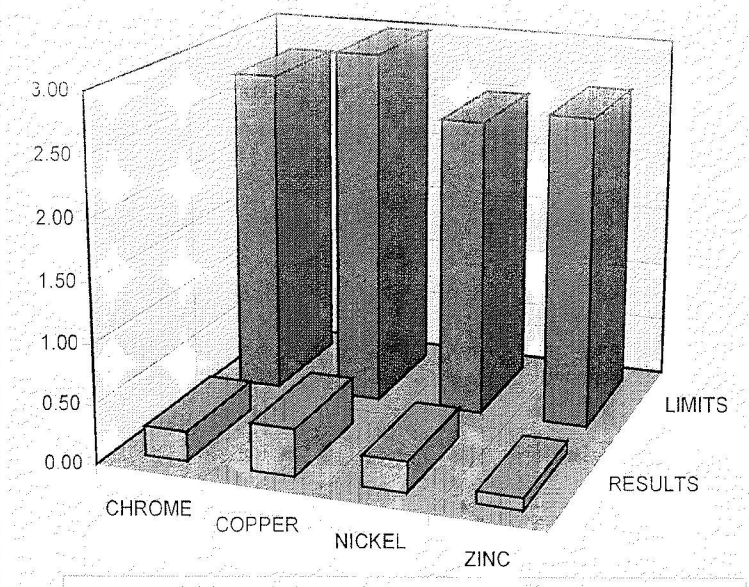
	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.66	0.66	0.74	0.05
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.75	0.66	0.75	0.11
LIMITS	2.75	3.00	2.50	2.61

NOVEMBER
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
NOVEMBER 21, 2001
COMPOSITE M86849



ALASKAN COPPER WORKS
3200 FACILITY
NOVEMBER 29, 2001
COMPOSITE M67123

VISUAL REPRESENTATION OF THE LAB RESULTS

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.34	0.26	0.31	0.05
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.25	0.40	0.26	0.10
LIMITS	2.75	3.00	2.50	2.61

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	11/26	7 AM	24.9	13	10.88	9.68	—	—	2126 / 4020	23 / 73	126	123	99				
		3 PM	24.9	12	11.80	9.97	—	—	414	5	125	126	129				3880 / 1894 / 2126
		11PM	24.4	10	10.52	10.01	—	—	1239	14	119	126	130				
TUESDAY	11/27	7 AM	24.1	9	12.71	10.15	—	—	1651	23	117	121	125				
		3 PM	24.1	8	10.12	10.32	—	—	0001?	0?	121	128	128				
		11PM	23.3	7	10.01	10.22	—	—	1164	20	124	120	130				
WEDNESDAY	11/28	7 AM	22.7	7	10.38	10.12	—	—	1164	28	120	120	128				
		3 PM	22.2	20	11.45	9.99	—	—	859	22	121	126	131				
		11PM	21.7	17	9.98	9.99	—	—	1690	44	125	126	125				
THURSDAY	11/29	7 AM	21.8	17	9.86	9.94	—	—	1960	46	119	123	129				
		3 PM	21.8	16	9.88	9.98	—	—	419	14	122	129	130				
		11PM	21.0	13	9.78	10.19	—	—	1205	55	127	122	126				
FRIDAY	11/30	7 AM	20.7	12	9.75	10.24	—	—	1413	62	119	126	127				
		3 PM	20.4	11	9.98	10.16	—	—	446	14	119	122	131				
		11PM	19.9	8	10.04	9.97	—	—	1598	55	122	123	129				
SATURDAY																	
SUNDAY																	

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

AKC-0009475

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	12/29	7 AM	5.2	16	11.14	9.60	—	—	1584	48	123	127	92				
		3 PM	5.2	14	10.24	10.04	—	—	354	0	122	124	84				
		11PM	4.2	11	10.05	10.30	—	—	1173	25	119	121	128				
TUESDAY	12/30	7 AM	4.2	10	10.44	10.38	—	—	1719	61?	115	121	124				
		3 PM	3.9	8	10.79	10.13	—	—	650	38	126	124	130				
		11PM	2.6	5	10.21	9.82	—	—	1594	78	120	128	126				
WEDNESDAY	12/31	7 AM	2.6	5	9.96	9.79	—	—	1594	88	120	126	129				
		3 PM	10.7	15	9.49	9.78	—	—	680	[illegible]	119	129	127				
		11PM	10.5	13	10.01	9.80	—	—	1949	73	121	126	126				
THURSDAY	1/1	7 AM	9.4	13	11.40	9.77	—	—	2228	82	116	121	130				
		3 PM	9.4	10	9.67	9.87	—	—	372	22	125	120	128				
		11PM	9.1	7	10.27	9.98	—	—	1430	49	122	127	129				
FRIDAY	1/2	7 AM	9.1	7	10.30	9.83	—	—	1620	56	121	121	128				
		3 PM	8.6	20	9.73	10.00	—	—	739	6	119	120	122				
		11PM	8.1	17	10.20	10.28	—	—	1048	40	124	126	127				
SATURDAY																	
SUNDAY																	

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

AKC-0009476

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	11/5	7 AM	7.5	17	10.48	9.94	–	–	1212	95	124	124	105	–	–	–	
		3 PM	6.8	10	10.43	9.91	–	–	1654	30	122	122	128				
		11PM	6.3	8	9.84	9.71	–	–	2784	62	128	128	126				
TUESDAY	11/6	7 AM	6.0	7	9.57	9.86	–	–	2875	72	118	130	130				
		3 PM	5.5	16	9.69	9.88	–	–	668	28	119	129	127				
		11PM	5.2	15	10.14	9.81	–	–	1918	67	123	124	130				
WEDNESDAY	11/7	7 AM	4.2	14	9.93	9.91	–	–	2165	77	117	120	129				
		3 PM	4.2	13	10.63	10.08	–	–	439	20	121	126	125				
		11PM	3.6	10	10.01	9.93	–	–	1672	73	126	123	130				
THURSDAY	11/8	7 AM	3.1	9	11.80	9.85	–	–	1672	81	119	127	130				
		3 PM	2.8	7	9.78	9.93	–	–	726	17	122	131	128				
		11PM	1.8	4	12.07	10.15			1522	60	124	126	127				
FRIDAY	11/9	7 AM	1.8	4	9.87	10.05	–	–	1780	61	118	117	128				
		3 PM	32.0	15	9.59	10.10	–	–	547	34	127	123	129				
		11PM	31.5	13	9.84	9.95	–	–	1598	75	124	121	126				
SATURDAY																	
SUNDAY																	

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

AKC-0009477

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	11/12	7 AM	31.2	14	9.86	9.79	–	–	1757	82	127	127	93				Forgot to Reset Cycles
		3 PM	31.2	11	10.08	9.83	–	–	624	89	118	121	–				
		11PM	30.4	9	9.75	10.01	–	–	1602	121	124	128	–				
TUESDAY	11/13	7 AM	30.4	7	9.77	10.05	–	–	1991	0?	122	126	–				
		3 PM	30.2	7	10.02	10.14	–	–	405	17	125	121	–				
		11PM	29.9	4	9.89	10.19	–	–	1218	6?	122	121	–				
WEDNESDAY	11/14	7 AM	29.9	4	10.16	10.16	–	–	1218	12	123	123	–				
		3 PM	28.8	0	10.11	10.03	–	–	1391	15	121	130					
		11PM	28.8	13	9.58	10.04	–	–	2440	34	125	130					
THURSDAY	11/15	7 AM	28.6	12	10.40	10.05	–	–	2440	37	120	121	118				
		3 PM	28.6	7	11.12	9.97	–	–	1281	12	127	121	–				
		11PM	28.1	5	9.89	9.91	–	–	2246	22	120	128	93				
FRIDAY	11/16	7 AM	28.1	5	9.68	10.08	–	–	2246	23	123	120	85				
		3 PM	27.8	20	11.97	10.20	–	–	150	11	121	127	114				
		11PM	27.8	17	10.11	10.16	–	–	508	11	128	127	130				
SATURDAY																	
SUNDAY																	

AKC-000947

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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	11/19	7 AM	27.7	16	10.31	10.05	—	—	962	11	128	126	91				
		3 PM	27.5	15	11.87	10.21	—	—	815	10	124	120	131				
		11PM	27.0	10	10.97	10.45	—	—	1782	33	124	125	126				
TUESDAY	11/20	7 AM	27.0	10	11.41	10.98	—	—	2009	39	118	120	126				
		3 PM	26.5	5	9.78	10.44	—	—	994	15	122	125	130				
		11PM	25.9	19	9.93	10.20	—	—	1894	41	124	125	129				
WEDNESDAY	11/21	7 AM	25.7	19	11.30	10.11	—	—	1894	50	117	124	122				Forgot to Reset flow & cycles
		3 PM	25.1	14	10.37	10.06	—	—	2490	62	122	122	126				
		11PM	25.1	9	10.01	10.04	—	—	3544	69	128	123	128				
THURSDAY	11/22	7 AM															
		3 PM															
		11PM															
FRIDAY	11/23	7 AM															
		3 PM															
		11PM															
SATURDAY																	
SUNDAY																	

AKC-000947

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

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-0009480

Company Name: Alaskan Copper Works Month: November 2001 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		9.7	9.9																	2228	
2		9.8	10.2																	1620	
3		—	—																	—	
4		—	—																	—	
5		9.7	9.9																	1212	
6		9.8	9.8																✓	2975	
7		9.9	10.0																	2165	
8	C	9.8	10.1		.66	.66			.74		.05									1672	
9		9.9	10.1																	1780	
10		—	—																	—	
11		—	—																	—	
12		9.7	10.0																	1757	
13		10.0	10.1																	1991	
14		10.0	10.1																	1218	
15	C	9.9	10.0																	2440	
16		10.0	10.2		.75	.66			.75		.11									2246	
17		—	—																	—	
18		—	—																	—	
19		10.0	10.4																	962	
20		10.2	10.4																	2009	
21	C	10.0	10.1		.34	.26			.31		.05									1894	
22		—	—																	—	
23		—	—																	—	
24		—	—																	—	
25		—	—																	—	
26		9.6	10.0																	2126	
27		10.1	10.3																	1651	
28		9.9	10.1																	1164	
29	C	9.9	10.1		.25	.40			.26		.10									1960	
30		9.9	10.2																	1413	
31																					
Monthly Minimum		9.6																		962	
Monthly Maximum		10.4																		2975	
Average		9.9																		1824	Total Monthly Flow (Gallons)

RECEIVED
DEC 14 2001
KING COUNTY
INDUSTRIAL WASTE

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 12/07/01

Please circle all permit violations

1330 (Rev. 1/00)

KING COUNTY
Department of Natural Resources

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Seattle, WA 98109-1658
Phone (206) 263-3000 / FAX (206) 263-3001

AKC-0009481

Company Name: ALASKAN COPPER WORKS Month: NOVEMBER 2001 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																					
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30																					
31																					
Monthly Minimum																					
Monthly Maximum																					
Average																					Total Monthly Flow (Gallons)

NOT IN USE THIS MONTH

RECEIVED
DEC 14 2001
KING COUNTY
INDUSTRIAL WASTE

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 12/07/01

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