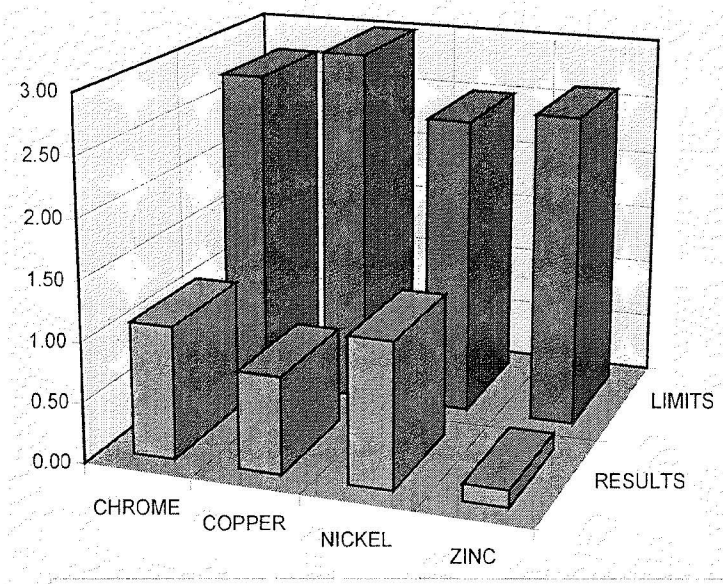
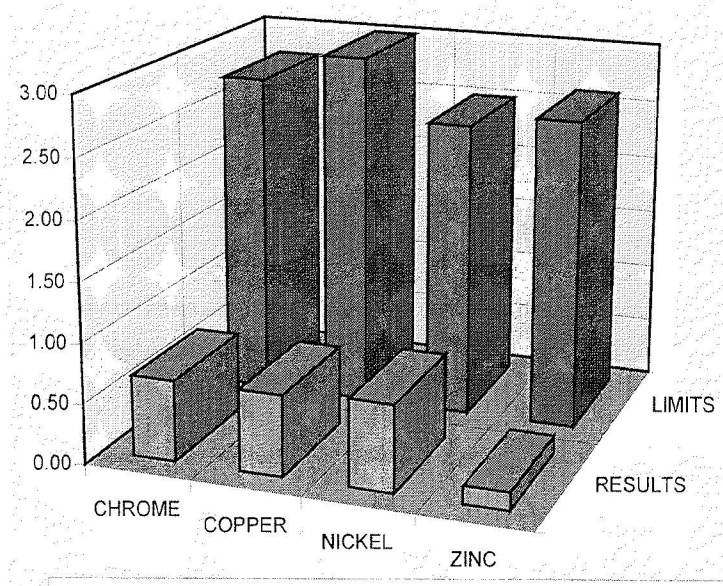
AUGUST
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
AUGUST 3, 2000
COMPOSITE M82559



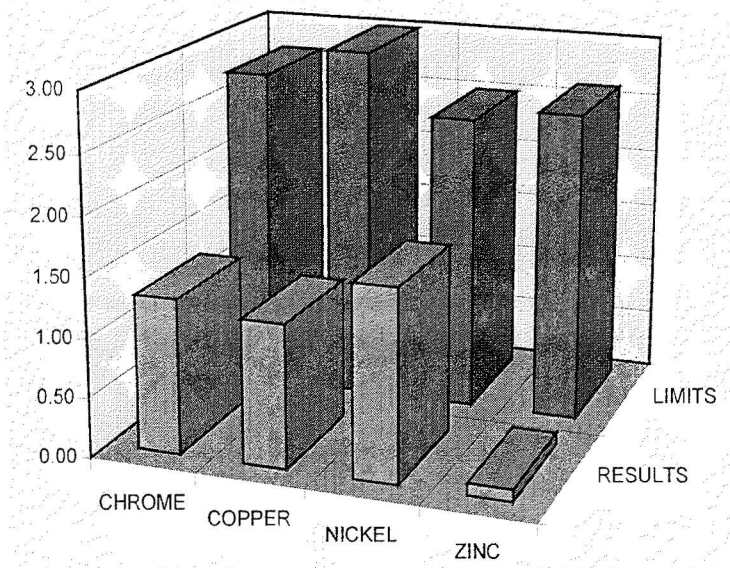
ALASKAN COPPER WORKS
3200 FACILITY
AUGUST 10, 2000
COMPOSITE M82658

VISUAL REPRESENTATION OF THE LAB RESULTS

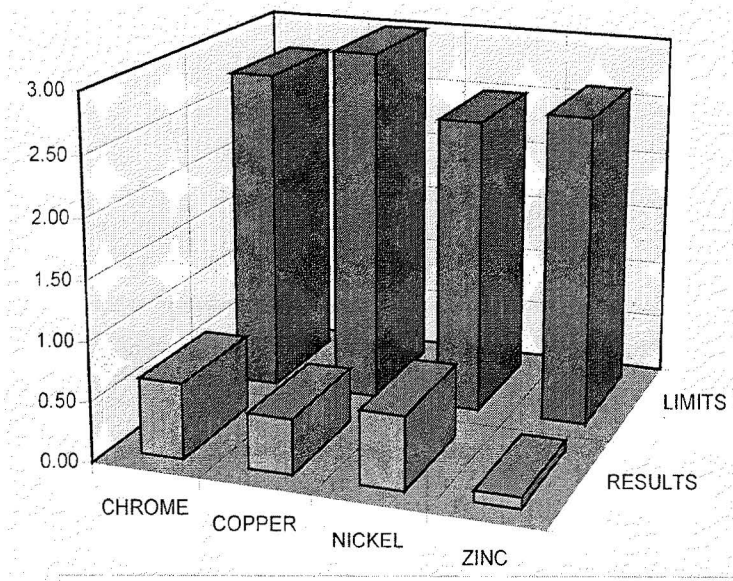
	CHROME	COPPER	NICKEL	ZINC
RESULTS	1.10	0.80	1.20	0.14
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.67	0.67	0.72	0.15
LIMITS	2.75	3.00	2.50	2.61

AUGUST
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
AUGUST 18, 2000
COMPOSITE M82778

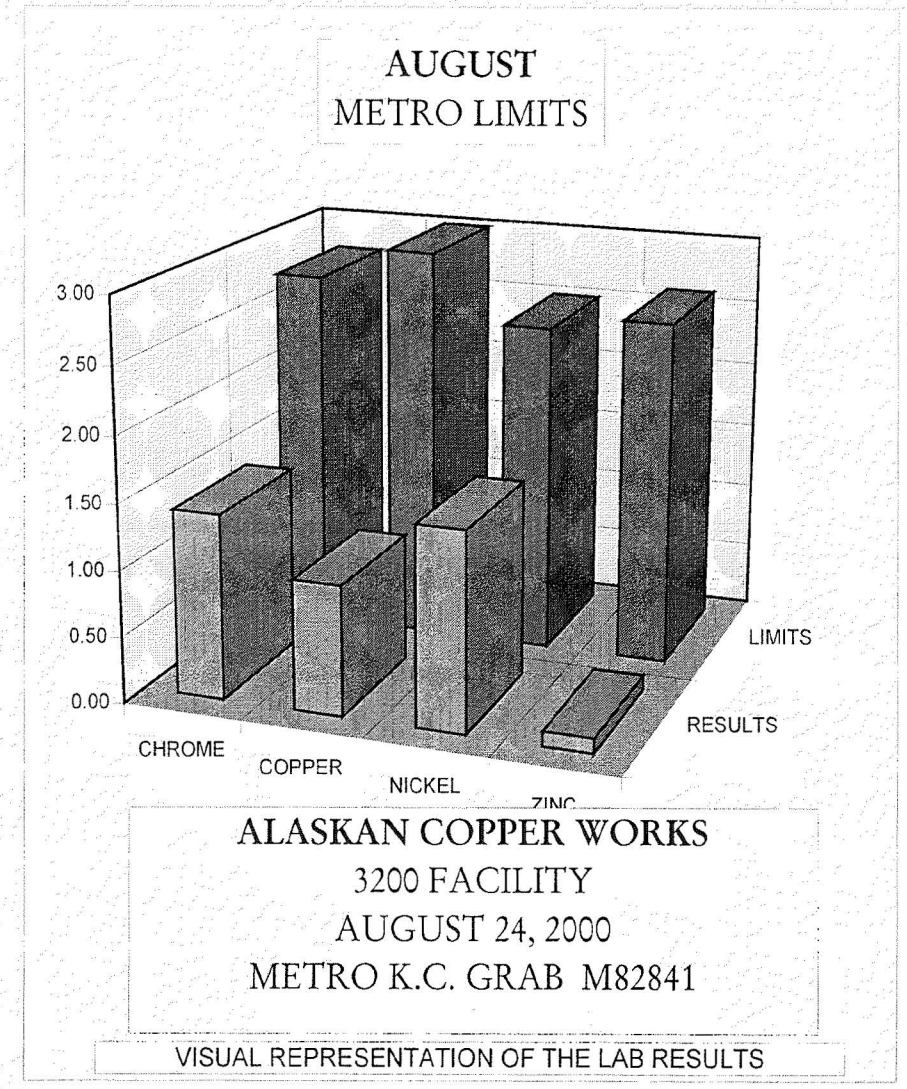


ALASKAN COPPER WORKS
3200 FACILITY
AUGUST 24, 2000
COMPOSITE M82838

VISUAL REPRESENTATION OF THE LAB RESULTS

	CHROME	COPPER	NICKEL	ZINC
RESULTS	1.30	1.20	1.60	0.10
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.63	0.46	0.61	0.09
LIMITS	2.75	3.00	2.50	2.61



	CHROME	COPPER	NICKEL	ZINC
RESULTS	1.40	0.98	1.50	0.11
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-0010004

Company Name: Alaskan Copper Works
Month: August 2000
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		11.1	11.7																	2915	
2		11.0	11.1																	1765	
3		10.9	11.2		1.1	.80			1.2		.14									2995	
4		10.9	11.1																	1931	
5																					
6																					
7		10.8	11.3																	2395	
8		11.2	11.4																	2670	
9		11.3	11.3																	1823	
10		11.3	11.4		.67	.67			.72		.15									2014	
11		11.3	11.4																	2126	
12																					
13																					
14		11.0	11.6																	2394	
15		11.1	11.5																	2338	
16		10.2	10.9																	2191	
17		10.0	10.3																	2323	
18		10.1	10.6		1.3	1.2			1.6		.10									2432	
19																					
20																					
21		10.0	10.2																	2507	
22		10.1	10.6																	2612	
23		10.5	10.8																	2198	
24		10.4	10.6		.63	.46			.61		.09									2773	metro Grab
25		10.3	10.7																	2400	Cr 1.4 Cu .98 Ni 1.5 Zn .11
26		10.2	10.2																	2430	
27																					
28		10.4	11.3																	1948	
29		11.2	11.4																	2811	
30		11.1	11.4																	2434	
31		11.1	11.3																	2505	
Monthly Minimum		10.0																		1765	
Monthly Maximum		11.7																		2995	
Average		10.8																		2267	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: 9/14/00

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

Company Name: Alaskan Copper Works Month: August 2000 No. of Employees (per day) Average: _____ Maximum: _____

Sample Site No.: A4009 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																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
21																					
22																					
23																					
24																					
25																					
26																					
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: Tomio Fujiwara Date: 9/14/00

Please circle all permit violations

1330 (Rev. 1/00)

AKC-0010005

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	7/31	7 AM	6	3	9.65	11.29	/	/	1817	97	118	119	123				
		3 PM	5.4	15	10.17	11.78	/	/	1278	44	121	128	128				
		11PM	3.9	10	9.72	11.83	/	/	2221	155	119	130	120				
TUESDAY	8/1	7 AM	3.6	8	10.26	11.71	/	/	2915	176	123	130	126				
		3 PM	20.3	18	10.34	11.26	/	/	450	33	119	121	129				
		11PM	20.1	17	9.88	11.11	/	/	1586	94	120	123	119				
WEDNESDAY	8/2	7 AM	15.6	16	11.29	11.13	/	/	1765	117	124	121	133				
		3 PM	19.1	15	10.01	11.16	/	/	1264	48	125	125	128				
		11PM	17.2	13	10.6	11.03	/	/	2665	132	123	121	118				
THURSDAY	8/3	7 AM	17.3	13	11.53	10.99	/	/	2995	157	121	127	132				
		3 PM	16.7	11		11.22	/	/	268	35	124	120	130				
		11PM	15.7	10	10.16	11.23	/	/	1928	88	124	123	119				
FRIDAY	8/4	7 AM	15.4	9	10.05	11.14	/	/	1931	5?	119	122	134				
		3 PM	14.9	7	11.07	10.98	/	/	888	34	123	127	130				
		11PM	13.8	6	10.27	11.10	/	/	2016	100	118	126	122				
SATURDAY																	
SUNDAY																	

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

AKC-001000

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

DAILY LOG

DAY	DAT	TIM	CAUST LEVE	FLOC. LEVEL	pH READING PROCESS MONITOR	pH READING OUTPUT MONITOR	pH PAPER PROCESS MONITOR	pH PAPER OUTPUT MONITOR	FLOWMETE	CYCLE	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	8/7	7 AM	13.9	7	10.55	10.87	/	/	2395	120	126	120	122				
		3 PM	13.3	7	11.04	11.28	/	/	900	12 ~~127~~	127	126	130				
		11PM	12.3	5	10.94	11.38	/	/	2069	71	119	126	119				
TUESDAY	8/8	7 AM	12.3	7	10.96	11.28	/	/	2670	82	123	126	127				
		3 PM	11.2	4	9.79	11.37	/	/	667	43	122	126	126				
		11PM	10.7	1	10.95	11.48	/	/	1664	82	116	116	118				
WEDNESDAY	8/9	7 AM	10.7	15	9.60	11.39	/	/	1823	90	108	109	134				
		3 PM	10.5	14	9.80	11.37	/	/	584	21	132	126	129				
		11PM	9.4	12	10.51	11.37	/	/	1813	58	122	122	116				
THURSDAY	8/10	7 AM	9.1	9	11.38	11.36	/	/	2014	76	123	123	132				
		3 PM	8.6	7	9.64	11.42	/	/	675	40	123	121	129				
		11PM	7.6	4	10.01	11.40	/	/	1738	93	119	125	120				
FRIDAY	8/11	7 AM	6.8	4	10.97	11.35	/	/	2126	125	126	120	130				
		3 PM	6.0	17	9.94	11.31	/	/	572	32	124	120	128				
		11PM	4.7	10	10.93	11.44	/	/	2049	96	124	123	117				
SATURDAY																	
SUNDAY																	

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

AKC-001000

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	5/14	7 AM	4.2	9	9.65	11.06	/	/	2394	103	125	123	129				
		3 PM	3.9	7	10.30	11.56	/	/	1083	32	128	124	127				
		11PM	3.1	5	10.38	11.65	/	/	1842	72	115	110	119				
TUESDAY	5/15	7 AM	5.6	18	11.56	11.58	/	/	2338	89	128	128	125				
		3 PM	19.3	15	9.58	11.53	/	/	700	23	122	126	127				
		11PM	18.5	13	9.71	11.11	/	/	1856	64	120	127	116				
WEDNESDAY	5/16	7 AM	18.5	12	12.90	10.93	/	/	2191	73	117	126	131				Power outage
		3 PM	17.2	9	Dead	Dead	/	/	673	19	Dead	Dead	Dead				
		11PM	16.7	7	9.63	10.25	/	/	1969	109	126	128	128				
THURSDAY	5/17	7 AM	16.7	7	11.83	10.05	/	/	2323	114	120	130	126				
		3 PM	15.7	5	11.14	10.38	/	/	640	35	123	127	126				
		11PM	14.9	3	11.68	10.18	/	/	2051	103	121	123	130				
FRIDAY	5/18	7 AM	14.4	3	11.73	10.18	/	/	2432	119	120	126	128				
		3 PM															
		11PM	12.8	12	11.59	10.67	/	/	2064	81	120	126	130				
SATURDAY																	
SUNDAY																	

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

AKC-0010008

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	8/21	7 AM	12.5	10	10.07	10.03	/	/	2507	97	129	129	98				
		3 PM	11.8	7	13.00	10.24	/	/	930	40	121	124	126				
		11PM	10.7	4	9.6	10.27	/	/	2190	111	127	127	130				
TUESDAY	8/22	7 AM	10.5	3	12.00	10.14	/	/	2612	126	121	128	130				
		3 PM	9.1	15	10.14	10.02	/	/	463	61	126	127	127				
		11PM	8.1	13	11.39	10.60	/	/	1815	131	120	117	130				
WEDNESDAY	8/23	7 AM	7.6	12	11.89	10.59	/	/	2198	154	124	128	128				
		3 PM	6.7	10	11.40	10.72	/	/	781	34	113	109	130				
		11PM	6.0	8	11.0	18.84	/	/	1976	107	122	121	126				
THURSDAY	8/24	7 AM	5.2	7	10.44	10.47	/	/	2773	8	122	122	128				
		3 PM	3.9	16	10.35	10.68	/	/	1050	62	120	126	127				
		11PM	2.3	12	9.99	10.55	/	/	2400	125	122	122	130				
FRIDAY	8/25	7 AM	2.3	12	11.79	10.52	/	/	2400	147	121	123	130				
		3 PM	1.3	10	10.42	10.74	/	/	1155	43	125	130	126				
		11PM	1	7	10.47	10.32	/	/	2195	342	120	124	130				
SATURDAY	8/26	4:30	25.3	7	9.57	10.22	/	/	2430	51	118	121	114				
		10:30	25.3	5	10.85	10.25	/	/	538	3	110	113	126				
SUNDAY																	

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

AKC-00100

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

DAILY LOG

DAY	DATE	TIME	CAUSTI LEVE	FLOC. LEVEL	pH READING PROCESS MONITOR	pH READING OUTPUT MONITOR	pH PAPER PROCESS MONITOR	pH PAPER OUTPUT MONITOR	FLOWMETE	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	8/23	7 AM	24.8	3	10.72	10.49	/	/	1948	40	124	125	108				
		3 PM	23.4	16	10.95	10.95	/	/	1295	66	122	125	127				
		11PM	22.1	13	9.97	11.35	/	/	2213	119	124	127	127				
TUESDAY	8/24	7 AM	21.6	10	10.81	11.43	/	/	2811	142	121	122	128				
		3 PM	20.4	9	10.39	11.40	/	/	686	43	122	127	128				
		11PM	19.6	5	9.88	11.24	/	/	1841	94	122	130	130				
WEDNESDAY	8/30	7 AM	19.3	5	11.52	11.19	/	/	2434	112	128	121	130				
		3 PM	17.2	18	10.13	11.46	/	/	878	79	124	127	130				
		11PM	17.0	13	10.01	11.23	/	/	2166	112	122	126	125				
THURSDAY	8/31	7 AM	16.2	11	9.90	11.16	/	/	2881	147	123	121	128				
		3 PM	15.4	9	11.64	11.27	/	/	862	3	125	129	130				
		11PM	14.4	5	9.73	11.32	/	/	1881	34	120	74	128				
FRIDAY	9/1	7 AM	13.8	5	11.26	11.37	/	/	255	60	121	62	129				
		3 PM	13.0	18	10.90	11.43	/	/	765	42	123	128	127				
		11PM	12.3	13	10.03	11.35	/	/	1854	83	122	125	128				
SATURDAY																	
SUNDAY																	

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

AKC-0010010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, WA 98101

August 22, 2000

Reply To
Attn Of: WCM-128

Mr. James Brown
Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124-3546

Dear Mr. Brown:

This concerns the July 24, 2000 Environmental Protection Agency (EPA) inspection performed by Mr. David Somers at Alaskan Copper Works, Seattle, WA. This inspection was carried out to verify compliance with the Toxic Chemical Release Inventory Reporting regulations adopted by EPA pursuant to Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986.

Based on a review of the documentation and information that you provided before and during this inspection, your facility appears to have met the Section 313 reporting requirements for annual release as outlined under 40 C.F.R. Part 372 for calendar years 1995 through 1999.

Your continued cooperation will be needed for reporting requirements in future years, depending on the activity and level of production and employment. Therefore, you should continue to remain familiar with these requirements and consult with us if you have any questions.

Please note that all records which you provided during the inspection will be kept on file in this office. Thank you for your cooperation.

Sincerely,

Christina Colt

Christina Colt
Program Manager
Toxics Release Inventory

Printed on Recycled Paper