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 JANUARY 2003 **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		9.7	9.8													1102	
(3)	C	9.7	9.8		.22	.30			.16		.05					1575	
4		—	—													—	
5		—	—													—	
6		9.5	9.6													1635	
7		9.9	10.4													1503	
8		9.8	9.8													1320	
(9)	C	9.8	10.0		.52	.47			.49		.05					1193	
10		9.9	10.0													1363	
11		—	—													—	
12		—	—													—	
13		9.6	9.8													1253	
14		9.8	9.9													1869	
15		9.8	10.0													1146	
(16)	C	9.8	9.9		.52	.46			.53		.06					1232	
17		9.8	10.0													1695	
18		—	—													—	
19		—	—													—	
20		9.8	10.0													1338	
21		9.9	10.0													1375	
22		9.8	10.0													987	
(23)	C	9.8	9.9		.19	.24			.16		.07					1251	
24		9.7	9.8													1076	
25		—	—													—	
26		—	—													—	
27		9.0	10.0													1370	
28		9.8	10.0													2273	
29		9.8	10.0													804	
(30)	C	9.9	10.0		.17	.18			.09		.12					1495	
31		10.0	10.2													940	

Monthly Min pH	9.0	& Date	1-27-03	Total Monthly Flow (gallons)	29,795
Monthly Max pH	10.4	& Date	1-7-03	Maximum Daily Flow	2273 & Date 1-28

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 3/14/03 Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

AKC-0008915

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 January 2003 **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																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
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28																	
29																	
30																	
31																	

NOT IN USE THIS MONTH

Monthly Min pH ____ & Date ____

Monthly Max pH ____ & Date ____

Total Monthly Flow (gallons) ____

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.

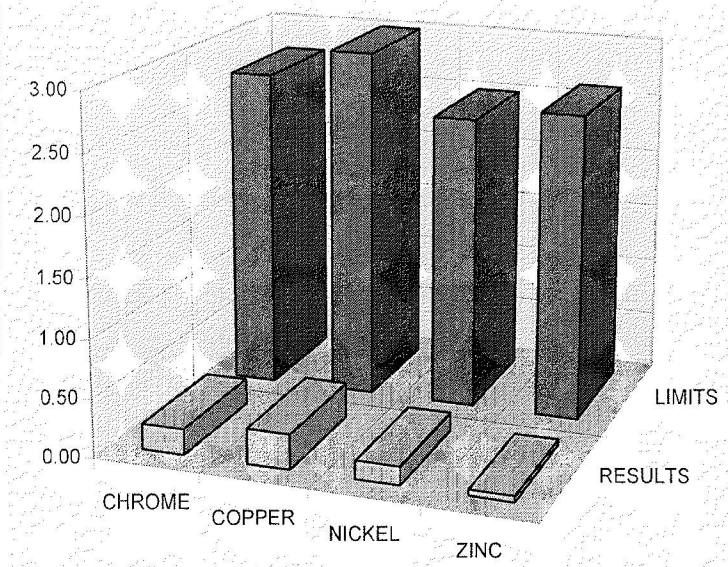
Signature of Principal Executive or Authorized Agent — Date 2/14/03

PLEASE CIRCLE ALL PERMIT VIOLATIONS

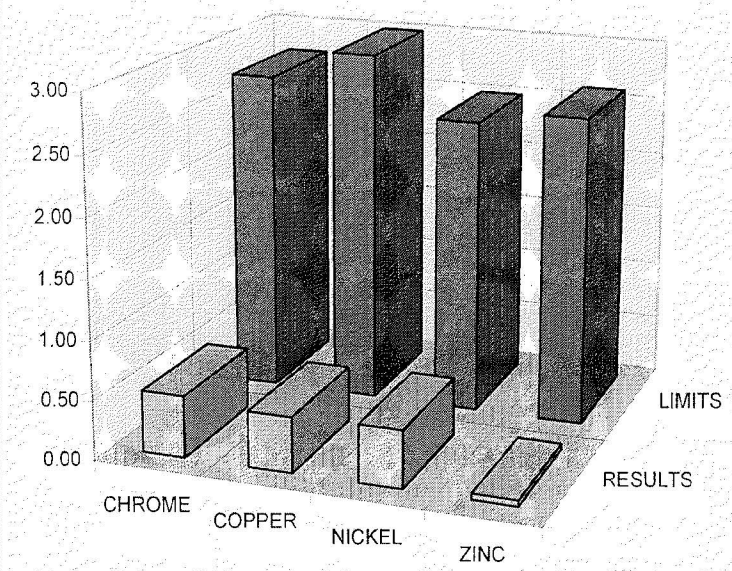
This form is available at http://dnr.metrokc.gov/wlr/indwaste/index.htm.

AKC-0008916

JANUARY
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
JANUARY 3, 2003
COMPOSITE M89884



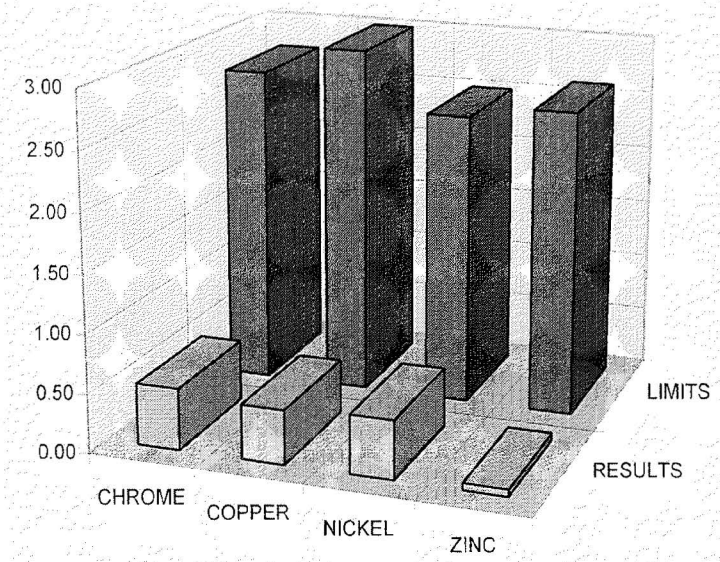
ALASKAN COPPER WORKS
3200 FACILITY
JANUARY 9, 2003
COMPOSITE M89968

VISUAL REPRESENTATION OF THE LAB RESULTS

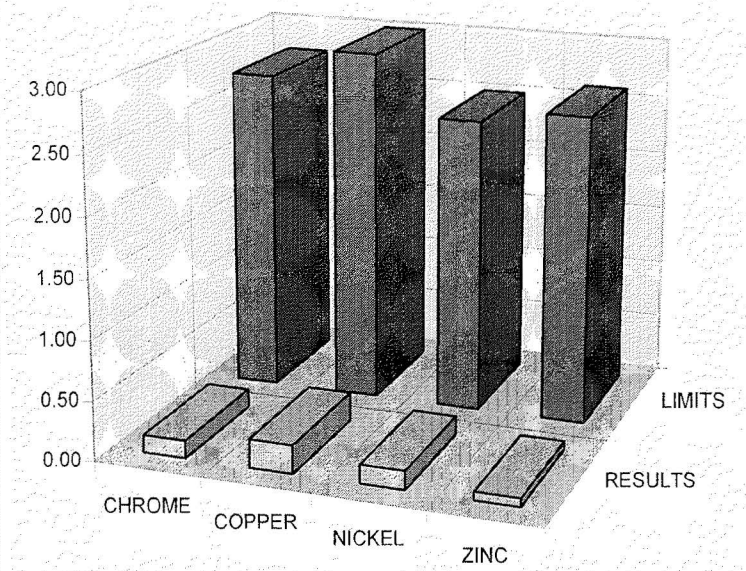
	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.22	0.30	0.16	0.05
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.52	0.47	0.49	0.05
LIMITS	2.75	3.00	2.50	2.61

JANUARY
METRO LIMITS



ALASKAN COPPER WORKS
3200 FACILITY
JANUARY 16, 2003
COMPOSITE M89995

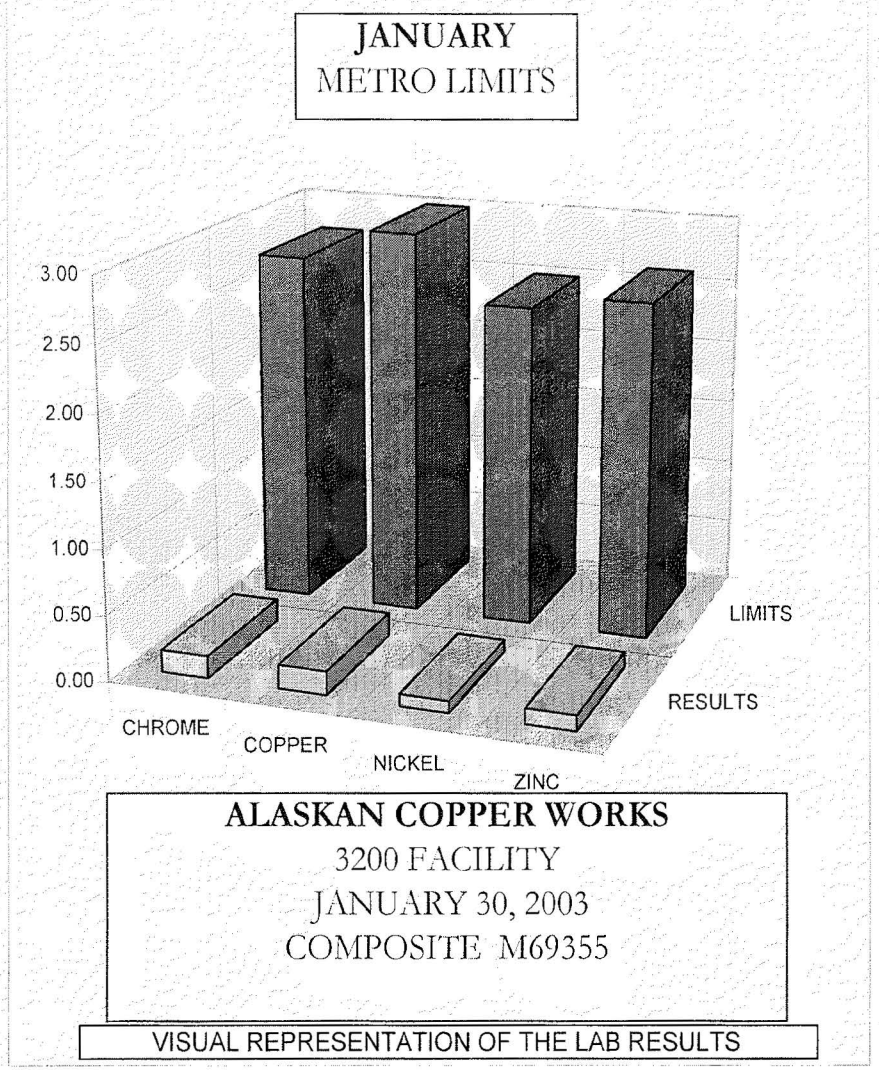


ALASKAN COPPER WORKS
3200 FACILITY
JANUARY 23, 2003
COMPOSITE M69328

VISUAL REPRESENTATION OF THE LAB RESULTS

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.52	0.46	0.50	0.06
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.15	0.24	0.16	0.07
LIMITS	2.75	3.00	2.50	2.61



	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.17	0.18	0.09	0.12
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	12/30	7 AM	32.1	12	10.86	9.82	—	—	1458	65	119	127	96				
		3 PM	31.8	10	10.24	9.81	—	—	667	84	121	128	130				
		11PM	31.1	8	10.66	9.73	—	—	1364	114	119	127	110				
TUESDAY	12/31	7 AM	31.2	8	11.79	9.72	—	—	1553	119	119	117	91				
		3 PM	31.1	7	10.32	9.74	—	—	201	1	123	118	86				
		11PM	30.6	6	10.96	9.66	—	—	776	29	124	124	97				
WEDNESDAY	1/1	7 AM															Holiday
		3 PM															
		11PM															
THURSDAY	1/2	7 AM	30.7	6	11.70	9.80	—	—	1102	33	121	124	93				
		3 PM	30.5	19	9.91	9.78	—	—	783	6	125	126	125				
		11PM	30.0	18	9.49	9.73	—	—	1408	23	120	127	112				
FRIDAY	1/3	7 AM	30.0	18	11.84	9.76	—	—	1575	30	120	122	126				
		3 PM	30.0	16	10.13	9.84	—	—	831	5	125	119	131				
		11PM	29.7	13	10.23	9.79	—	—	1295	26	128	120	112				
SATURDAY																	
SUNDAY																	

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

AKC-0008920

253-941-3877

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	1/6	7 AM	29.9	13	10.41	9.64	–	–	1635	28	126	127	133				
		3 PM	29.8	12	9.66	9.58	–	–	764	3	124	119	130				
		11PM	29.1	10	9.79	9.57	–	–	1277	34	123	123	108				
TUESDAY	1/7	7 AM	29.3	10	11.96	10.49	–	–	1503	37	118	126	125				
		3 PM	28.5	7	9.6	10.17	–	–	387	15	118	120	130				
		11PM	28.2	5	9.99	9.91	–	–	1320	36	123	118	105				
WEDNESDAY	1/8	7 AM	28.3	5	10.01	9.87	–	–	1320	36	115	118	113				
		3 PM	28.0	18	10.05	9.83	–	–	563	20	122	120	130				
		11PM	27.5	17	10.36	9.85	–	–	995	36	126	120	109				
THURSDAY	1/9	7 AM	27.5	16	9.88	9.85	–	–	1193	37	119	120	129				Forgot to Reset Cycles & Flow
		3 PM	27.4	14	9.67	9.82	–	–	1510	48	126	122	124				
		11PM	26.4	11	9.59	10.03	–	–	2556	83	122	120	106				
FRIDAY	1/10	7 AM	26.4	11	10.37	10.03	–	–	1365 / 2556	48 / 85	116	117	90				
		3 PM	26.1	10	9.52	10.00	–	–	582	15	120	122	80?				
		11PM	25.6	8	10.40	9.98	–	–	1112	57	127	118	75?				
SATURDAY																	
SUNDAY																	

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

AKC-0008922

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/D#)
MONDAY	1/13	7 AM	25.4	6	10.17	9.65	—	—	1253	63	123	120	60				Sensor to Reset Cycles
		3 PM	25.3	20	9.67	9.81	—	—	927	68	126	115	60?				
		11PM	24.08	18	10.15	9.86	—	—	1564	105	124	125	106				
TUESDAY	1/14	7 AM	24.9	18	9.99	9.86	—	—	1869	111	123	121	120				
		3 PM	24.0	17	10.24	9.90	—	—	405	40	120	121	130				
		11PM	23.0	15.0	9.78	9.93	—	—	1004	85	111	116	124				
WEDNESDAY	1/15	7 AM	22.8	15	10.76	9.85	—	—	1146	97	107	115	121				
		3 PM	22.8	14	9.78	9.98	—	—	196	17	114	124	130				
		11PM	21.7	10	10.83	10.00	—	—	1032	58	125	118	123				
THURSDAY	1/16	7 AM	21.7	9	10.33	9.88	—	—	1232	63	118	123	132				
		3 PM	20.9	7	9.53	9.92	—	—	902	31	121	120	130				
		11PM	20.4	5	9.54	9.92	—	—	1616	53	121	127	125				
FRIDAY	1/17	7 AM	20.4	5	17.63	9.87	—	—	1655	59	114	120	130				
		3 PM	20.4	18	10.12	9.96	—	—	350	4	124	119	131				
		11PM	19.9	16	9.86	10.04	—	—	1127	16	126	126	124				
SATURDAY																	
SUNDAY																	

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

AKC-0008923

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

DAILY LOG

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#)
1/20	7 AM	19.7	15	11.53	9.85	—	—	1338	22	123	118	102				
	3 PM	19.7	14	10.78	9.96	—	—	381	8	123	117	126				
	11PM	19.0	12	9.83	10.06	—	—	1083	38	123	123	124				
1/21	7 AM	19.0	12	11.86	10.01	—	—	1375	2?	117	120	130				
	3 PM	19.0	12	10.10	10.01	—	—	480	11	125	118	125				
	11PM	18.5	10	10.81	9.99	—	—	983	24	123	128	121				
1/22	7 AM	18.5	10	11.38	9.87	—	—	987	27	120	126	130				
	3 PM	18.4	9	9.51	9.82	—	—	365	12	120	128	130				
	11PM	18.2	8	10.53	10.00	—	—	1056	32	113	116	122				
1/23	7 AM	18.2	8	9.79	9.89	—	—	1251	32	107	108	128				Forgot to Reset Cycles
	3 PM	18.7	7	9.85	9.90	—	—	176	44	101	100	125				
	11PM	18.4	6	11.17	9.90	—	—	853	70	114	118	125				
1/24	7 AM	18.5	6	10.15	9.78	—	—	1076	70	111	118	133				
	3 PM	18.2	10	9.70	9.85	—	—	716	21	127	120	127				
	11PM	17.1	17	10.33	9.76	—	—	1370	40	122	125	126				

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

AKC-0008924

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	1/27	7 AM	17.1	17	10.44	8.91	—	—	1370	47	117	119	115				Heavy Rain over weekend Caused output ~~Stop~~ to have to PH
		3 PM	17.1	16	10.12	9.88	—	—	923	16	122	127	130				
		11PM	16.1	13	10.34	10.06	—	—	1716	76	116	109	121				
TUESDAY	1/28	7 AM	16.2	14	10.12	10.08	—	—	2273	78	108	101	133				
		3 PM	16.1	13	11.93	10.08	—	—	178	5	113	128	131				
		11PM	15.6	10	9.66	9.87	—	—	804	43	117	124	120				
WEDNESDAY	1/29	7 AM	15.4	10	10.85	9.85	—	—	804	45	111	118	128				
		3 PM	15.1	10	10.49	9.82	—	—	746	22	128	120	130				
		11PM	14.3	8	10.86	10.07	—	—	1495	40	126	124	124				
THURSDAY	1/30	7 AM	14.3	8	11.88	9.96	—	—	1495	43	119	118	135				
		3 PM	14.3	7	9.86	9.96	—	—	336	5	124	129	131				
		11PM	13.8	6	9.74	10.06	—	—	940	42	120	125	121				
FRIDAY	1/31	7 AM	13.8	6	12.51	10.04	—	—	940	48	117	123	129				
		3 PM	13.3	5	11.68	10.22	—	—	670	8	115	123	131				
		11PM	13.0	3	10.62	10.17	—	—	1235	37	119	124	121				
SATURDAY																	
SUNDAY																	

AKC-0008925

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