Industrial Waste Monthly Self-Monitoring Report

King County

Send to: King County Industrial Waste
130 Nickerson Street, Suite 200
Seattle, WA 98109-1658
Phone 206-263-3000 / FAX 206-263-3001
Email: info.KCIW@kingcounty.gov

AKC-0003113

Company Name: ALASKAN COPPER WORKS 6TH AVE. S. **Sample Site No.** A-4010 **Permit/DA No.:** 7235-5

Please Specify Month & Year: **Month:** NOVEMBER **2014**

This form is available at www.kingcounty.gov/industrialwaste.

All units are mg/l unless otherwise noted. Note: For cyanide, circle test performed - amenable or total ▼

Sample Date (circle)	Sample Type C (Composite) G (grab) BC (batch)	pH Min	pH Max	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Silver, Ag	Zinc, Zn	Cyanide (CN) Amenable (A) or Total (T)	Nonpolar Fats, Oils, & Grease (Average of 3 grabs)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1		------	------											------	
2		------	------											------	
3		10.3	10.5											607	
4		10.3	10.7											912	
5		10.6	10.7											786	
6	C	10.6	10.8		1.04	.71			1.12		.01			904	
7		10.8	11.2											1023	
8		------	------											------	
9		------	------											------	
10		10.8	11.3											991	
11		11.0	11.3											1324	
12		10.8	11.1											823	
13		10.7	10.9											879	
14	C	10.8	10.9		.41	.34					1			940	
15		11.0	11.1											910	
16		------	------											------	
17		11.1	11.3											1490	
18		10.8	11.1											1598	
19		10.7	10.8											1087	
20	C	10.6	10.7		.41	.17			.32		.01			971	
21		10.0	10.7											879	
22		10.9	11.1											823	
23		------	------											------	
24		10.8	11.1											1093	
25		10.8	11.0											1172	
26	C	10.7	11.1		.36	.26			.18		.01			996	
27		------	------											------	HOLIDAY
28		------	------											------	WEEK
29		------	------											------	END
30		------	------											------	
31	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

NOV 2014

Monthly Min pH	10.0	& Date	11/21/14	Total Monthly Flow (gallons)	18226
Monthly Max pH	11.3	& Date	11/10/14	Maximum Daily Flow	1598 & Date 11/18/14

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

12-9-2014
Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th of each month.

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AKC-0003114

Company Name: ALASKAN COPPER WORKS 6TH AVE. S. **Sample Site No.** A-4010 **Permit/DA No.:** 7235-5

Please Specify Month & Year: **Month:** NOVEMBER **2014**

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All units are mg/l unless otherwise noted. Note: For cyanide, circle test performed - amenable or total ▼

Sample Date (circle)	Sample Type C (Composite) G (grab) BC (batch)	pH Min	pH Max	Cadmium, Cd	Chromium, Cr	Copper, Cu	Lead, Pb	Mercury, Hg	Nickel, Ni	Silver, Ag	Zinc, Zn	Cyanide (CN) Amenable (A) or Total (T)	Nonpolar Fats, Oils, & Grease (Average of 3 grabs)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1		--------	--------												
2		--------	--------											--------	
3		10.3	10.5											607	
4		10.3	10.7											912	
5		10.6	10.7											786	
6	C	10.6	10.8		1.04	.71			1.12		.01			904	
7		10.8	11.2											1023	
8		--------	--------											--------	
9		--------	--------											--------	
10		10.8	11.3											991	
11		11.0	11.3											1324	
12		10.8	11.1											823	
13		10.7	10.9											879	
14	C	10.8	10.9		.41	.34			.18		.01			940	
15		11.0	11.1											910	
16		--------	--------											--------	
17		11.1	11.3											1490	
18		10.8	11.1											1598	
19		10.7	10.8											1087	
20	C	10.6	10.7		.41	.17			.32		.01			971	
21		10.0	10.7											879	
22		10.9	11.1											823	
23		--------	--------											--------	
24		10.8	11.1											1093	
25		10.8	11.0											1172	
26	C	10.7	11.1		.36	.26			.18		.01			996	
27		--------	--------											--------	HOLIDAY
28		--------	--------											--------	WEEK
29		--------	--------											--------	END
30		--------	--------											--------	
31	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Monthly Min pH	10.0	& Date	11/21/14
Monthly Max pH	11.3	& Date	11/10/14

Total Monthly Flow (gallons): 18226

Maximum Daily Flow: 1598 & Date: 11/18/14

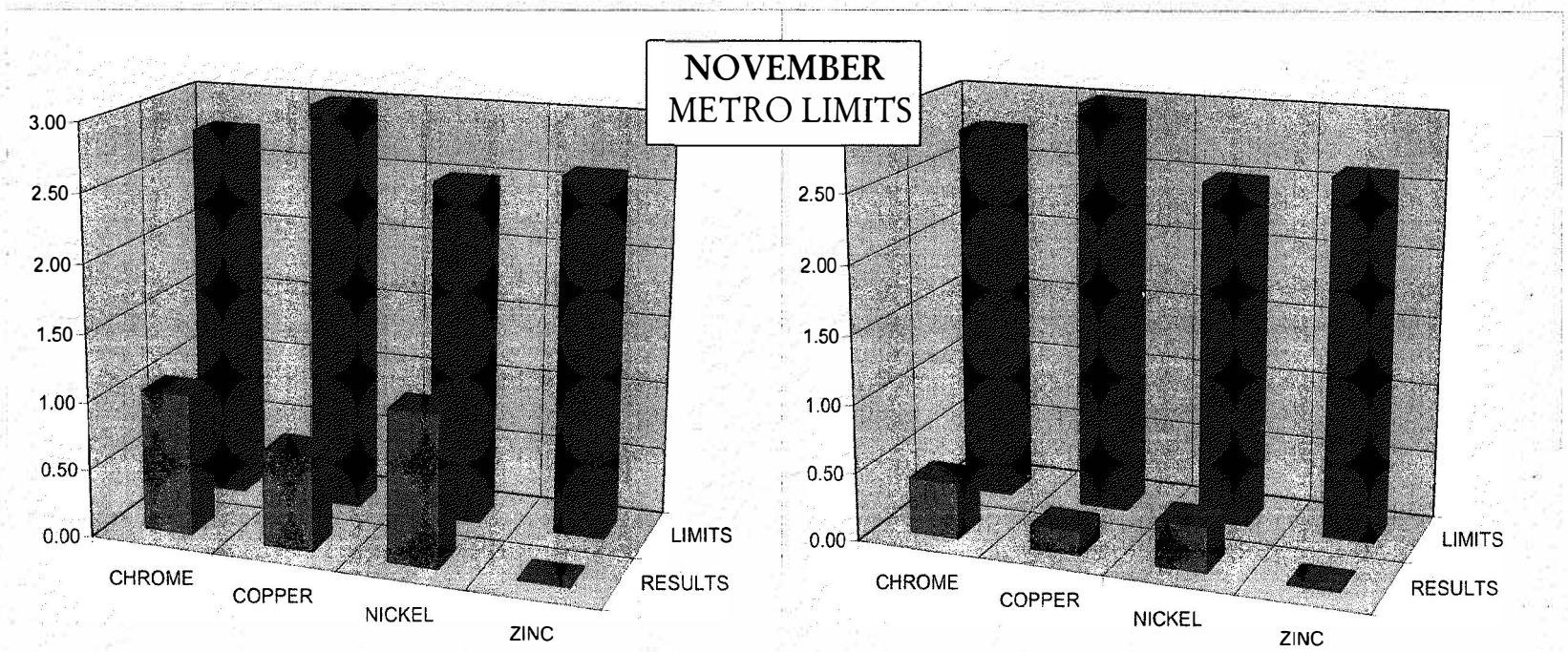
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

12-9-2014
Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

Due Date: Monthly report is due by the 15th of each month.



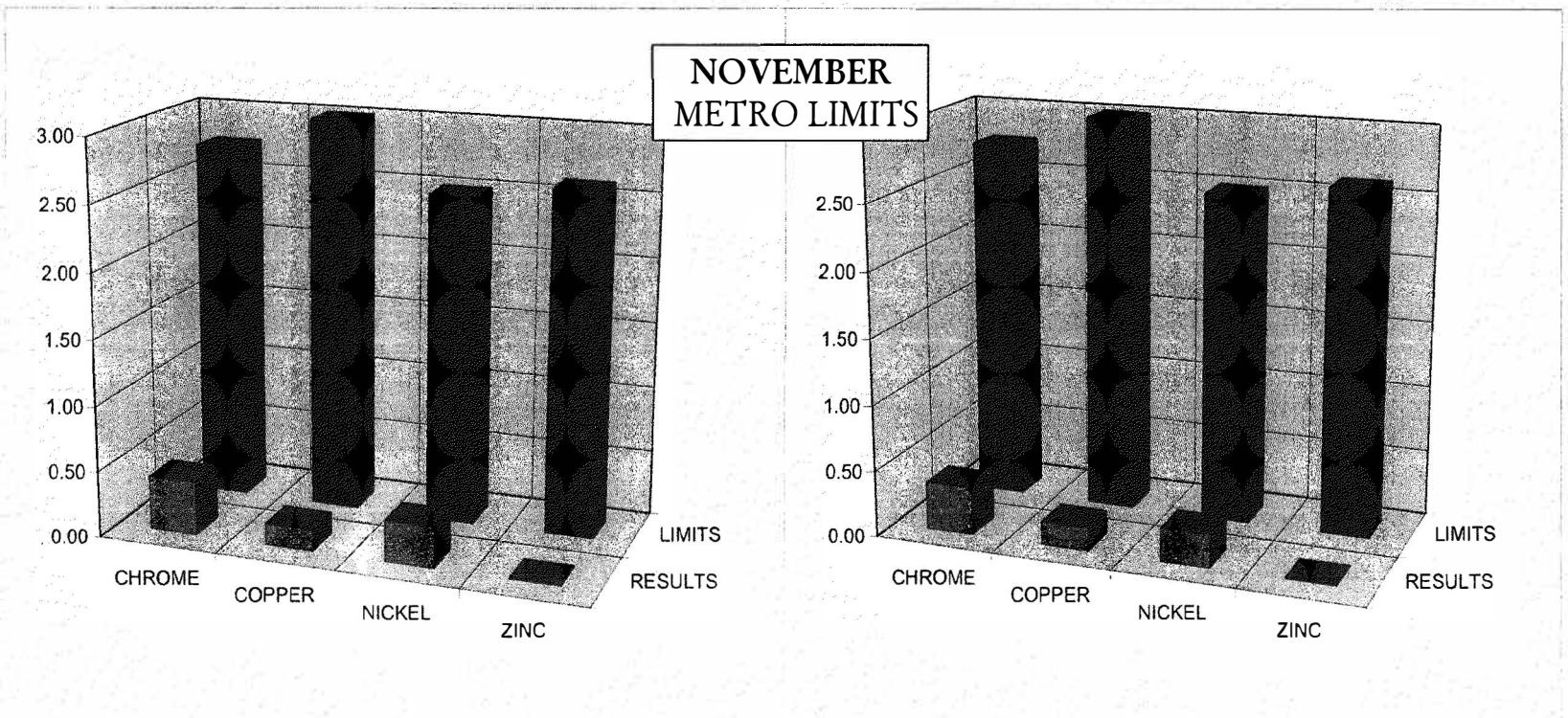
ALASKAN COPPER WORKS 3200 FACILITY NOVEMBER 6, 2014 COMPOSITE M002556	ALASKAN COPPER WORKS 3200 FACILITY NOVEMBER 13, 2014 COMPOSITE M002579

VISUAL REPRESENTATION OF THE LAB RESULTS

NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	1.04	0.71	1.12	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.41	0.18	0.34	0.01
LIMITS	2.75	3.00	2.50	2.61



ALASKAN COPPER WORKS 3200 FACILITY NOVEMBER 20, 2014 COMPOSITE M002612	ALASKAN COPPER WORKS 3200 FACILITY NOVEMBER 26, 2014 COMPOSITE M002653

VISUAL REPRESENTATION OF THE LAB RESULTS

NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.41	0.17	0.32	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.36	0.18	0.26	0.01
LIMITS	2.75	3.00	2.50	2.61

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/11/14
Date Received: 11/03/14
Project: % of Acid M002539, F&BI 411008
Date Extracted: 11/06/14
Date Analyzed: 11/06/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR SPECIFIC GRAVITY @ 15.56 °C

Sample ID Laboratory ID	Specific Gravity
M002539A Sm Tank 411008-01	1.255
M002539A Lg Tank 411008-02	1.186

Note: The third significant digit is an estimate

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M002556	Client:	Alaskan Copper Works
Date Received:	11/06/14	Project:	Metro Self Monitor M002556, F&BI 411092
Date Extracted:	11/10/14	Lab ID:	411092-01 x10
Date Analyzed:	11/10/14	Data File:	411092-01 x10.058
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	1,040
Nickel	1,120
Copper	718
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M002579	Client:	Alaskan Copper Works
Date Received:	11/13/14	Project:	Metro Self Monitor M002579, F&BI 411231
Date Extracted:	11/14/14	Lab ID:	411231-01 x10
Date Analyzed:	11/14/14	Data File:	411231-01 x10.036
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	417
Copper	183
Nickel	349
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M002612	Client:	Alaskan Copper Works
Date Received:	11/20/14	Project:	Metro Self Monitor M002612, F&BI 411372
Date Extracted:	11/25/14	Lab ID:	411372-01 x10
Date Analyzed:	11/25/14	Data File:	411372-01 x10.047
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	412
Nickel	328
Copper	170
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/26/14
Date Received: 11/20/14
Project: % of Acid M002610, F&BI 411370
Date Extracted: 11/25/14
Date Analyzed: 11/25/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR SPECIFIC GRAVITY @ 15.56 °C

Sample ID Laboratory ID	Specific Gravity
M002610A Sm Tank 411370-01	1.233
M002610B Lg tank 411370-02	1.209

Note: The third significant digit is an estimate

AKC-0003121

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M002653	Client:	Alaskan Copper Works
Date Received:	11/26/14	Project:	Metro Self Monitor M002653, F&BI 411468
Date Extracted:	12/01/14	Lab ID:	411468-01 x10
Date Analyzed:	12/01/14	Data File:	411468-01 x10.042
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	368
Copper	182
Nickel	266
Zinc	<50

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	11/3	7 AM	9.7	5	5.39	10.34	—	—	607	40	127	121	124				
		3 PM	8.3	16	10.65	10.51	—	—	912	50	122	128	119				
		11PM	7.9	15	11.08	10.38	—	—	912	75	122	118	120				
TUESDAY	11/4	7 AM	7.9	15	8.42	10.34	—	—	912	75	126	125	113				
		3 PM	7.4	13	9.88	10.51	—	—	240	21	124	129	123				
		11PM	7.1	12	10.00	10.79	—	—	786	40	121	123	124				
WEDNESDAY	11/5	7 AM	7.1	12	9.45	10.74	—	—	786	43	125	125	116				
		3 PM	6.2	11	10.09	10.60	—	—	447	54	126	128	124				
		11PM	5.7	10	9.58	10.69	—	—	904	73	122	126	123				
THURSDAY	11/6	7 AM	5.7	10	8.76	10.60	—	—	904	73	127	123	115				From 9 to 0 Caustic cycles
		3 PM	5.1	10	8.83	10.83	—	—	581	33	119	118	122				
		11PM	4.6	8	9.55	10.89	—	—	1023	55	118	120	123				
FRIDAY	11/7	7 AM	4.6	8	9.13	10.82	—	—	1023	64	122	122	115				
		3 PM	3.1	7	8.22	10.90	—	—	342	31	118	117	128				
		11PM	2.8	4	10.38	11.25	—	—	991	69	120	115	120				
SATURDAY																	
SUNDAY																	

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

AKC-0003123

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	11-10	7 AM	2.8	4	7.70	10.96	–	–	991	73	118	109	123				
		3 PM	1.7	15	10.95	10.80	–	–	398	72	125	123	120				
		11PM	1.4	13	10.75	11.35	–	–	1324	85	123	[illegible]	116				
TUESDAY	11-11	7 AM	1.4	13	10.60	11.37	–	–	1324	85	124	118	109				
		3 PM	17.1	13	11.62	11.21	–	–	228	34	124	128	120				
		11PM	17.1	12	11.00	11.08	–	–	823	51	118	113	113				
WEDNESDAY	11-12	7 AM	17.1	12	10.81	11.12	–	–	823	51	118	124	105				
		3 PM	17.1	12	9.48	10.95	–	–	Ø	7	127	130	129				
		11PM	16.7	10	11.05	10.88	–	–	879	33	120	128	110				
THURSDAY	11-13	7 AM	16.7	10	9.35	10.90	–	–	879	33	120	122	103				
		3 PM	16.6	10	9.88	10.79	–	–	193	20	119	119	127				
		11PM	16.4	8	9.94	10.80	–	–	940	39	122	117	113				
FRIDAY	11-14	7 AM	16.4	8	9.60	10.82	–	–	940	39	122	121	104				
		3 PM	16.4	8	10.53	10.87	–	–	279	30	119	128	126				
		11PM	15.8	5	9.95	10.97	–	–	910	37	111	118	104				
SATURDAY	11-15	6.00	15.8	5	9.81	11.06	–	–	910	37	108	111	92				[illegible] reset?
		1 PM	16.0	5	10.04	11.17	–	–	1418	51	126	125	83				
SUNDAY																	

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

AKC-0003124

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	11-17	7 AM	16.2	5	9.83	11.20	—	—	1490	51	127	118	118				
		3 PM	15.4	3	10.12	11.35	—	—	380	14	121	118	98				
		11PM	15.0	14	10.42	11.15	—	—	1598	40	121	120	86				
TUESDAY	11-18	7 AM	15.0	14	9.57	11.13	—	—	1598	40	121	118	77				Oakite tank running cold needs reset?
		3 PM	14.9	14	9.68	10.98	—	—	235	10	125	118	70				
		11PM	14.8	13	11.06	10.84	—	—	1087	34	119	128	65				
WEDNESDAY	11-19	7 AM	14.8	13	10.80	10.80	—	—	1087	34	120	128	62				
		3 PM	14.1	10	9.70	10.72	—	—	Ø	27	120	127	125				
		11PM	13.9	9	10.83	10.77	—	—	971	44	128	119	114				
THURSDAY	11-20	7 AM	13.9	9	9.88	10.67	—	—	971	44	125	129	105				
		3 PM	13.6	8	10.10	10.73	—	—	320	20	125	128	126				
		11PM	13.2	8	10.25	10.78	—	—	879	30	124	115	114				
FRIDAY	11-21	7 AM	13.2	8	9.01	10.76	—	—	879	30	124	128	109				
		3 PM	13.0	8	9.72	10.65	—	—	Ø	Ø	121	128	120				
		11PM	12.9	6	11.22	10.03	—	—	823	26	116	116	119				
SATURDAY	11-22	5:30 AM	12.9	6	10.63	10.98	—	—	823	26	107	103	102				
		1 pm	12.6	5	10.59	11.18	—	—	1456	10	127	124	93				
			12.8	2	9.89	10.99	—	—	1093	10	119	127	85				
SUNDAY																	

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

AKC-0003125

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	11-23	7 AM	12.8	2	9.80	10.81	–	–	10.93	10	126	118	125				
		3 PM	12.7	2	10.82	10.79	–	–	276	4	125	126	120				
		~~PM~~ TAN	12.2	15	11.25	11.10	–	–	1172	20	124	114	115				
TUESDAY	11-24	7 AM	12.2	15	11.49	11.01	–	–	1172	20	121	125	113				
		3 PM	12.1	15	9.86	10.95	–	–	∅	26	127	120	125				
		~~PM~~ TAN	11.6	13	10.65	10.85	–	–	996	70	114	112	113				
WEDNESDAY	11-25	7 AM	11.6	13	10.19	10.76	–	–	996	70	118	125	113				
		3 PM	11.0	12	10.65	11.00	–	–	462	20	118	128	122				
		11PM	10.7	11	10.66	11.16	–	–	867	26	119	123	121				
THURSDAY	11-26	7 AM															HOLIDAY
		3 PM															
		11PM															
FRIDAY	11-27	7 AM															
		3 PM															
		11PM															
SATURDAY																	
SUNDAY																	

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

AKC-0003126