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-0003052

Company Name: ALASKAN COPPER WORKS 6TH AVE. S. **Sample Site No.** A-4010 **Permit/DA No.:** 7238-5

Please Specify Month & Year: **Month:** JULY **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		10.4	10.7											724	
(2)	C	10.0	10.7		.36	.34			.34		.05			935	
3		10.8	11.0											788	
4		---------	---------											----------	HOLIDAY
5		---------	---------											----------	WEEK
6		---------	---------											----------	END
7		10.4	10.6											1210	
8		10.3	10.4											653	
9		10.3	10.5											463	
(10)	C	10.4	10.5		.44	.41					.05			663	
11		10.3	10.4											560	
12		---------	---------											----------	
13		---------	---------											----------	
14		10.2	10.2											0	ACID YARD
15		10.1	11.0											142	CLOSED FOR
16		11.0	11.1											1067	MAINT.
(17)	C	10.8	10.9		.89	.99					.05			1128	
18		10.6	10.8											699	
19		---------	---------											----------	
20		---------	---------											----------	
21		10.4	11.4											389	
22		10.9	11.4											1200	
23		10.8	10.9											1075	
(24)	C	10.8	10.9		.27	.24			.23		.05			1125	
25		10.7	10.8											1124	
26		---------	---------											----------	
27		---------	---------											----------	
28		10.4	10.6											879	
29		10.5	10.6											1322	
30		10.3	10.7											1139	
(31)	C	10.5	10.6		.25	.18			.19		.05			959	

July 2014

Monthly Min pH	10.0	& Date	7/2/14	Total Monthly Flow (gallons)	18244
Monthly Max pH	11.4	& Date	7/21/14	Maximum Daily Flow	1322 & Date 7/29/14

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

Date 8/8/14

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

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AKC-0003053

Company Name: ALASKAN COPPER WORKS 6TH AVE. S. **Sample Site No.** A-4010 **Permit/DA No.:** 7238-5

Please Specify Month & Year: **Month:** JULY **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		10.4	10.7											724	
(2)	C	10.0	10.7		.36	.34			.34		.05			935	
3		10.8	11.0											788	
4		---------	---------											----------	HOLIDAY
5		---------	---------											----------	WEEK
6		---------	---------											----------	END
7		10.4	10.6											1210	
8		10.3	10.4											653	
9		10.3	10.5											463	
(10)	C	10.4	10.5		.44	.41			.45		.05			663	
11		10.3	10.4											560	
12		---------	---------											----------	
13		---------	---------											----------	
14		10.2	10.2											0	ACID YARD
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18		10.6	10.8											699	
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21		10.4	11.4											389	
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25		10.7	10.8											1124	
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27		---------	---------											----------	
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30		10.3	10.7											1139	
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Monthly Min pH	10.0	& Date	7/2/14	Total Monthly Flow (gallons)	18244
Monthly Max pH	11.4	& Date	7/21/14	Maximum Daily Flow	1322 & Date 7/29/14

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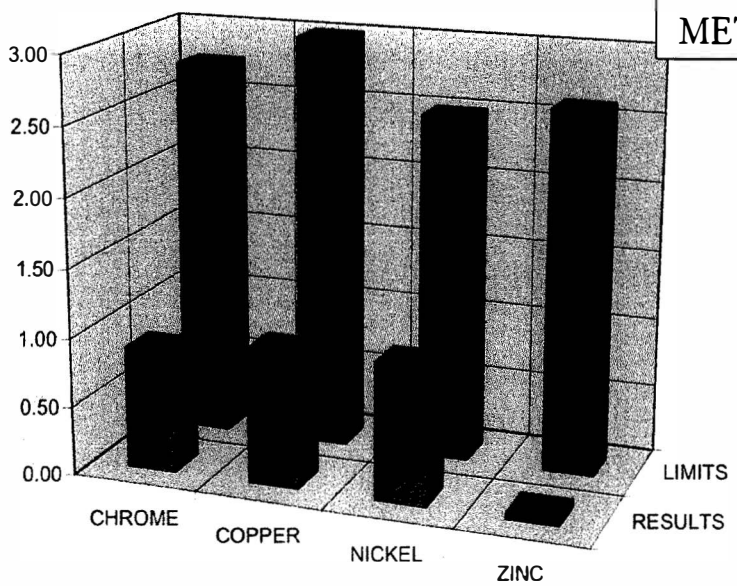
Signature of Principal Executive or Authorized Agent

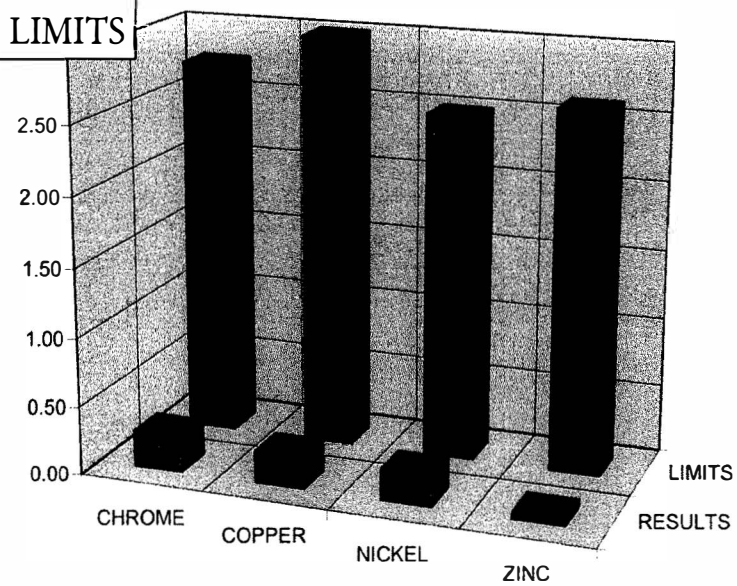
Date 8/8/14

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

JULY
METRO LIMITS





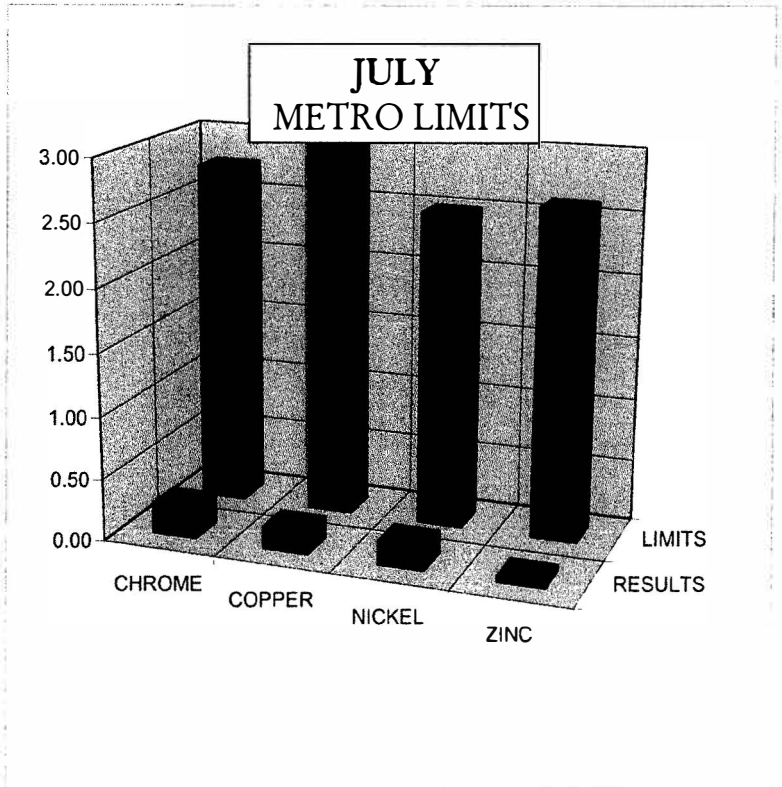
ALASKAN COPPER WORKS 3200 FACILITY JULY 17, 2014 COMPOSITE M002182	ALASKAN COPPER WORKS 3200 FACILITY JULY 24, 2014 COMPOSITE M002206

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	0.89	0.99	1.00	0.05
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.27	0.24	0.23	0.05
LIMITS	2.75	3.00	2.50	2.61

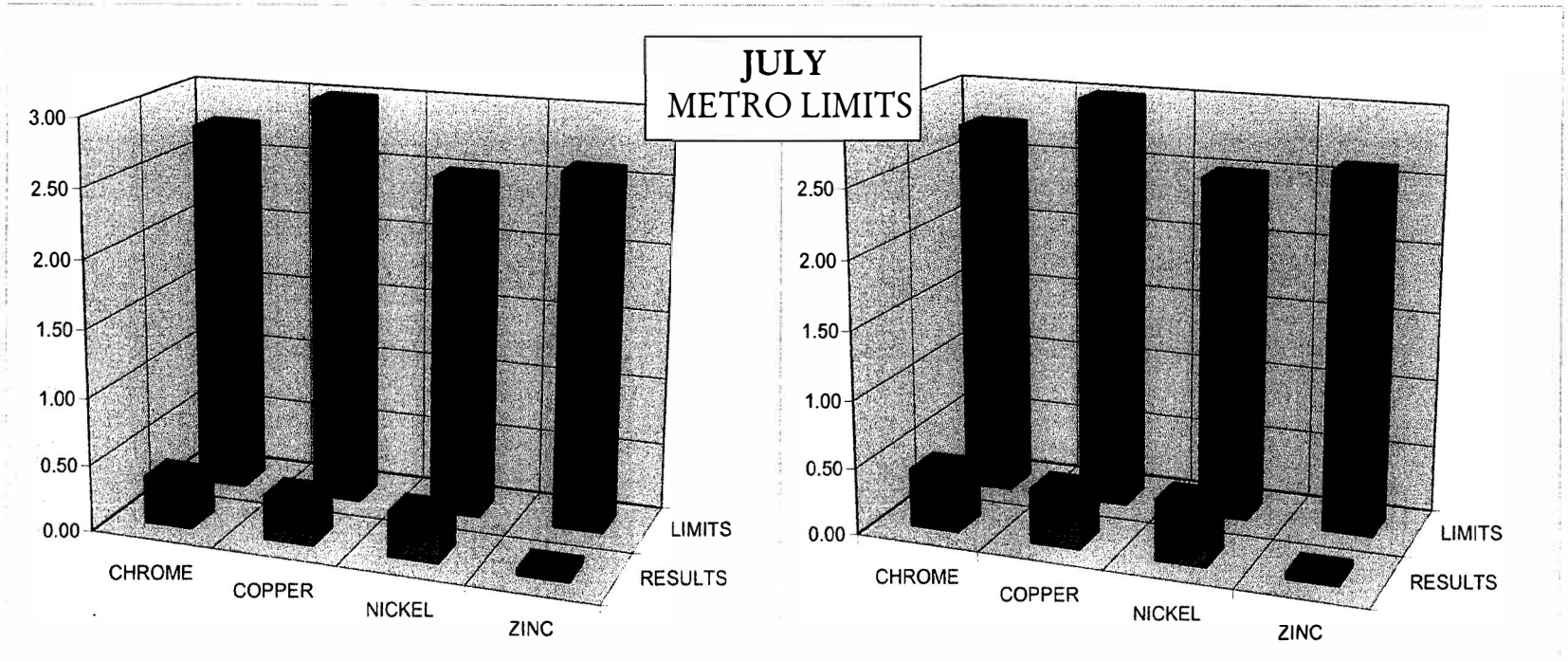


ALASKAN COPPER WORKS
3200 FACILITY
JULY 31, 2014
COMPOSITE M002225

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	0.25	0.18	0.19	0.05
LIMITS	2.75	3.00	2.50	2.61



ALASKAN COPPER WORKS 3200 FACILITY JULY 2, 2014 COMPOSITE M134533	ALASKAN COPPER WORKS 3200 FACILITY JULY 10, 2014 COMPOSITE M002141

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	0.36	0.34	0.34	0.05
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.44	0.41	0.45	0.05
LIMITS	2.75	3.00	2.50	2.61

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M134533	Client:	Alaskan Copper Works
Date Received:	07/02/14	Project:	Metro Self Monitor, PO M134533
Date Extracted:	07/02/14	Lab ID:	407037-01 x10
Date Analyzed:	07/03/14	Data File:	407037-01 x10.030
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	365
Nickel	349
Copper	340
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M002141	Client:	Alaskan Copper Works
Date Received:	07/10/14	Project:	METRO Self Monitor PO M002141
Date Extracted:	07/14/14	Lab ID:	407167-01 x10
Date Analyzed:	07/14/14	Data File:	407167-01 x10.042
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	443
Nickel	450
Copper	410
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M002182	Client:	Alaskan Copper Works
Date Received:	07/17/14	Project:	Metro Self Monitor M002182, F&BI 407268
Date Extracted:	07/21/14	Lab ID:	407268-01 x10
Date Analyzed:	07/23/14	Data File:	407268-01 x10.022
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	893
Nickel	1,000
Copper	998
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M002206	Client:	Alaskan Copper Works
Date Received:	07/24/14	Project:	Metro Self Monitor M002206, F&BI 407400
Date Extracted:	07/28/14	Lab ID:	407400-01 x10
Date Analyzed:	07/29/14	Data File:	407400-01 x10.044
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	92	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	279
Nickel	237
Copper	241
Zinc	<50

AKC-0003060

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M002225	Client:	Alaskan Copper Works
Date Received:	07/31/14	Project:	Metro Self Monitor M002225, F&BI 407501
Date Extracted:	08/04/14	Lab ID:	407501-01 x10
Date Analyzed:	08/05/14	Data File:	407501-01 x10.060
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	73	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	258
Nickel	190
Copper	189
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CB331707-072314	Client:	Landau Associates
Date Received:	07/23/14	Project:	1198001.010.059 PO M002190, F&BI 407374
Date Extracted:	07/28/14	Lab ID:	407374-01
Date Analyzed:	07/29/14	Data File:	407374-01.039
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125

Analyte:	Concentration ug/L (ppb)
Copper	108
Zinc	235

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	UnitBINF_072314	Client:	Landau Associates
Date Received:	07/23/14	Project:	1198001.010.059 PO M002190, F&BI 407373
Date Extracted:	07/28/14	Lab ID:	407373-01
Date Analyzed:	07/29/14	Data File:	407373-01.037
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)
Copper	9.92
Zinc	2,870

AKC-0003063

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	6/30	7 AM	15.7	13	9.75	10.86	–	–	1026	1	138	122	151				
		3 PM	15.7	10	10.87	10.71	–	–	370	Ø	132	128	123				
		11PM	15.4	9	10.18	10.61	–	–	724	1	124	115	122				
TUESDAY	7/1	7 AM	15.4	9	9.93	10.59	–	–	724	1	123	131	154				
		3 PM	15.4	9	9.81	10.49	–	–	Ø	3	132	124	133				
		11PM	15.4	1	9.97	10.79	–	–	935	2	126	125	120				
WEDNESDAY	7/2	7 AM	15.4	1	11.21	11.73	–	–	935	9	124	128	153				
		3 PM	15.2	16	10.39	10.64	–	–	Ø	Ø	135	128	131				
		11PM	15.0	10	9.95	10.08	–	–	788	1	122	117	119				
THURSDAY	7/3	7 AM	15.0	10	10.41	11.00	–	–	788	1	122	128	150				forgot to reset
		3 PM	15.0	10	9.56	10.87	–	–	788	2	122	125	128				
		11PM	15.0	9	10.90	10.87	–	–	1210	1	127	123	130				
FRIDAY	7/4	7 AM															
		3 PM															
		11PM															
SATURDAY																	
SUNDAY																	

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

AKC-0003064

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	7-7	7 AM	15.0	9	10.50	10.60	-	-	1210	1	130	122	125				
		3 PM	15.0	7	9.50	10.89	—	—	420	2	134	124	120				
		11PM	14.5	5	9.80	10.46	—	—	653	14	124	121	121				
TUESDAY	7-8	7 AM	14.6	5	9.74	10.46	—	—	653	14	121	127	128				
		3 PM	14.4	5	10.40	10.40	—	—	Ø	2	125	128	131				
		11PM	14.4	15	9.92	10.36	—	—	463	2	120	126	119				
WEDNESDAY	7-9	7 AM	14.4	16	9.82	10.40	—	—	463	2	121	127	146				
		3 PM	13.9	15	9.53	10.33	—	—	30	6	98	128	128				
		11PM	13.9	13	10.56	10.57	—	—	663	Ø	62	120	128				
THURSDAY	7-10	7 AM	13.9	13	10.62	10.53	—	—	663	Ø	61	118	123				3:30 - Shut steam generator down - leaking
		3 PM	13.9	12	10.61	10.45	—	—	Ø	1	122	121	128				
		11PM	13.4	8	9.73	10.42	—	—	560	Ø	117	112	129				
FRIDAY	7-11	7 AM	13.4	8	10.13	10.44	—	—	560	0	111	104	120				STEAM generator being rebuilt
		3 PM	13.4	8	9.95	10.33	—	—	Ø	Ø	107	98	126				
		11PM	13.4	8	9.77	10.48	—	—	412	5	104	94	129				
SATURDAY																	
SUNDAY																	

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

AKC-0003065

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	7-14	7 AM															
		3 PM	13.5	7	10.03	10.25	—	—	Ø	Ø	89	80	116				
		11PM	13.5	5	10.42	10.22	—	—	142	Ø	89	79	121				
TUESDAY	7-15	7 AM	13.5	5	11.08	10.19	—	—	142	Ø	86	76					10:00 GENERATOR OFF!
		3 PM	13.5	5	11.01	10.21	—	—	207	Ø	86	76	120				
		11PM	13.5	1	10.10	11.02	—	—	1067	1	118	123	122				
WEDNESDAY	7-16	7 AM	13.5	1	10.13	11.16	—	—	1067	1	115	106	152				
		3 PM	12.7	16	10.59	11.03	—	—	[illegible]	76	124	122	122				
		11PM	12.2	13	10.54	11.00	—	—	1128	Ø	121	124	121				
THURSDAY	7-17	7 AM	12.2	13	10.44	10.92	—	—	1128	Ø	128	128	151				
		3 PM	12.0	12	9.57	10.89	—	—	Ø	6	120	120	130				
		11PM	11.9	8	10.31	10.87	—	—	699	1	118	124	121				
FRIDAY	7-18	7 AM	11.9	8	8.15	10.83	—	—	699	1	128	121	149				
		3 PM	11.8	8	9.57	10.73	—	—	Ø	5	115	111	132				
		11PM	11.5	5	9.86	10.64	—	—	389	9	123	124	121				
SATURDAY																	
SUNDAY																	

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

AKC-0003066

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	7-21	7 AM	11.5	5	6.18	10.44	—	—	389	12	125	109	131				
		3 PM	11.0	3	9.99	10.92	—	—	750	11	122	124	119				
		11PM	10.8	1	9.72	11.46	—	—	1200	25	124	115	120				
TUESDAY	7-22	7 AM	10.8	1	9.82	11.42	—	—	1200	25	119	125	148				
		3 PM	10.5	1	9.54	11.27	—	—	261	2	123	120	131				
		11PM	10.3	13	9.98	10.99	—	—	1075	1	118	123	119				
WEDNESDAY	7-23	7 AM	10.3	13	9.54	10.90	—	—	1075	1	125	131	125				
		3 PM	10.3	12	10.35	10.81	—	—	260	Ø	123	118	118				
		11PM	9.9	9	9.84	10.94	—	—	1125	Ø	123	122	121				
THURSDAY	7-24	7 AM	9.9	9	9.93	10.92	—	—	1125	Ø	127	128	151				
		3 PM	9.3	8	10.77	10.84	—	—	719	26	124	128	132				
		11PM	9.1	5	10.16	10.85	—	—	1124	39	124	122	119				
FRIDAY	7-25	7 AM	9.1	5	10.10	10.81	—	—	1124	39	121	129	138				
		3 PM	8.9	4	10.01	10.84	—	—	472	36	128	121	120				
		11PM	8.4	14	9.84	10.77	—	—	879	Ø	118	127	122				
SATURDAY																	
SUNDAY																	

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

AKC-0003067