King County

Industrial Waste Monthly Self-Monitoring Report

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-0003036

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

Please Specify Month & Year: **Month:** JUNE **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		10.5	11.2											938	
3		11.1	10.9											1302	
4		10.6	10.8											694	
(5)	C	10.4	10.6		.24	.20					.05			878	
6		10.5	10.7											671	
7		--------	--------											--------	
8		--------	--------											--------	
9		10.3	10.4											672	
10		10.2	10.5											751	
11		10.5	10.6											575	
(12)	C	10.4	10.7		.26	.21					.05			659	
13		10.5	10.8											799	
14		--------	--------											--------	
15		--------	--------											--------	
16		10.3	10.5											871	
17		10.8	11.4											802	
18		10.8	11.2											906	
(19)	C	10.8	11.3		.38	.24			.29		.05			884	
20		11.2	11.4											892	
21		--------	--------											--------	
22		--------	--------											--------	
23		10.8	11.4											730	
24		11.2	11.3											938	
25		10.8	11.1											218	
(26)	C	10.3	10.8		.60	.52			.63		.05			482	
27		10.9	11.1											736	
28		--------	--------											--------	
29		--------	--------											--------	
30		10.6	10.8											1026	
31		--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	

June 2014

Monthly Min pH	10.2	& Date	6/10/14	Total Monthly Flow (gallons)	16424		
Monthly Max pH	11.4	& Date	6/17/14	Maximum Daily Flow	1302	& Date	6/3/14

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 at onm

Date 7/14/14

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

King County

Industrial Waste Monthly Self-Monitoring Report

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

AKC-0003037

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

Please Specify Month & Year: **Month:** JUNE **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		10.5	11.2											938	
3		11.1	10.9											1302	
4		10.6	10.8											694	
(5)	C	10.4	10.6		.24	.20			.21		.05			878	
6		10.5	10.7											671	
7		---------	---------											---------	
8		---------	---------											---------	
9		10.3	10.4											672	
10		10.2	10.5											751	
11		10.5	10.6											575	
(12)	C	10.4	10.7		.26	.21			.19		.05			659	
13		10.5	10.8											799	
14		---------	---------											---------	
15		---------	---------											---------	
16		10.3	10.5											871	
17		10.8	11.4											802	
18		10.8	11.2											906	
(19)	C	10.8	11.3		.38	.24			.29		.05			884	
20		11.2	11.4											892	
21		---------	---------											---------	
22		---------	---------											---------	
23		10.8	11.4											730	
24		11.2	11.3											938	
25		10.8	11.1											218	
(26)	C	10.3	10.8		.60	.52			.63		.05			482	
27		10.9	11.1											736	
28		---------	---------											---------	
29		---------	---------											---------	
30		10.6	10.8											1026	
31		---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	

Monthly Min pH	10.2	& Date	6/10/14	Total Monthly Flow (gallons)	16424
Monthly Max pH	11.4	& Date	6/17/14	Maximum Daily Flow	1302 & Date 6/3/14

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 7/15/14

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

King County

Industrial Waste Quarterly Self-Monitoring Report

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-0003038

Company Name: ALASKAN COPPER WORKS

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

Please specify year: 2014 **QUARTER** 2 **Sample Site No.:** A-40102 **Permit/DA No.:** 7238-05

All units are mg/l unless otherwise noted. Note: Write in self-monitoring parameters, if not provided, e.g. Silver (Ag); delete or ignore FOG or SS, if not required.

Month	Sample Date	Sample Type C (Composite) G (Grab) BC (Batch)	pH	Chrome, Cr	Silver, Ag	Non-Polar fats, oils & grease (FOG) (Record average only)	Settleable Solids (ml/L)	Discharge Volume on sample day (gallons)	Total Monthly Flow (gallons)
April									2200
	Total volume discharged for April								
May									2100
	5/15/14	G	6.22	.03	.16			100	
	Total volume discharged for May								
June									2200
	Total volume discharged for June								

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

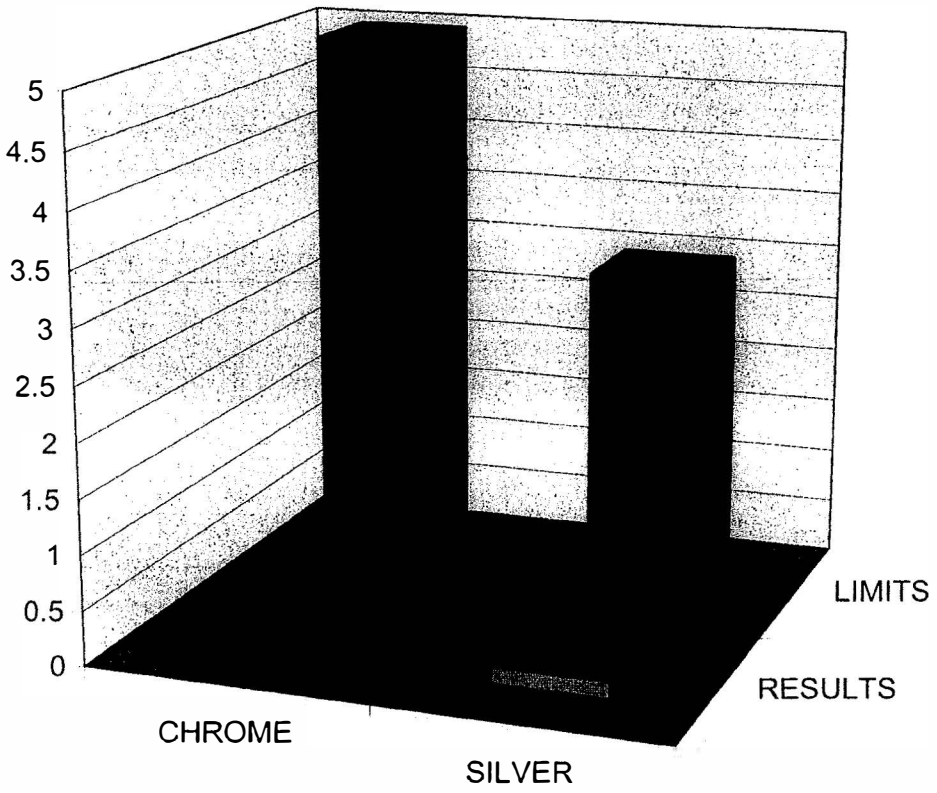
Signature of Principal Executive or Authorized Agent

7/14/14
Date

→ Maximum daily flow from this quarter: **100** **gallons.** Date on which maximum daily flow occurred: **5/15/14**

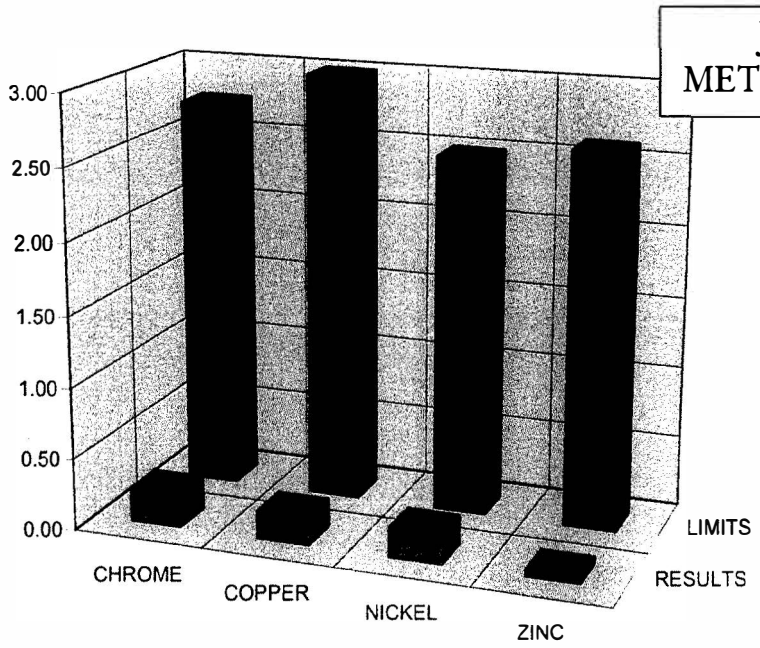
Due Date: **Second Quarter Report is due by July 15 of each year.**

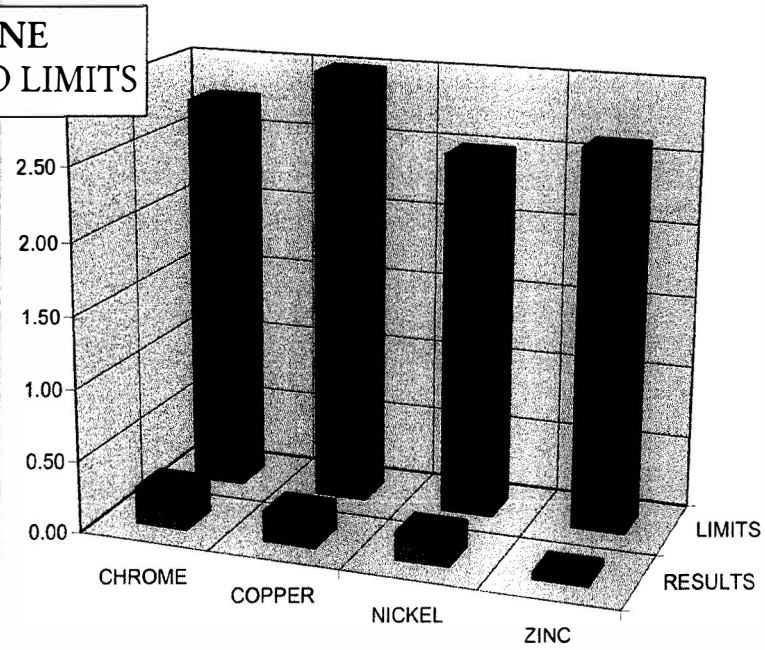
2 ND QUARTER



ALASKAN COPPER WORKS
3200 X-RAY DEPT.
MAY 15, 2014
GRAB M001922

	CHROME	SILVER
RESULTS	0.03	0.16
LIMITS	5.00	3.00





ALASKAN COPPER WORKS 3200 FACILITY JUNE 5, 2014 COMPOSITE M134435	ALASKAN COPPER WORKS 3200 FACILITY JUNE 12, 2014 COMPOSITE M002041

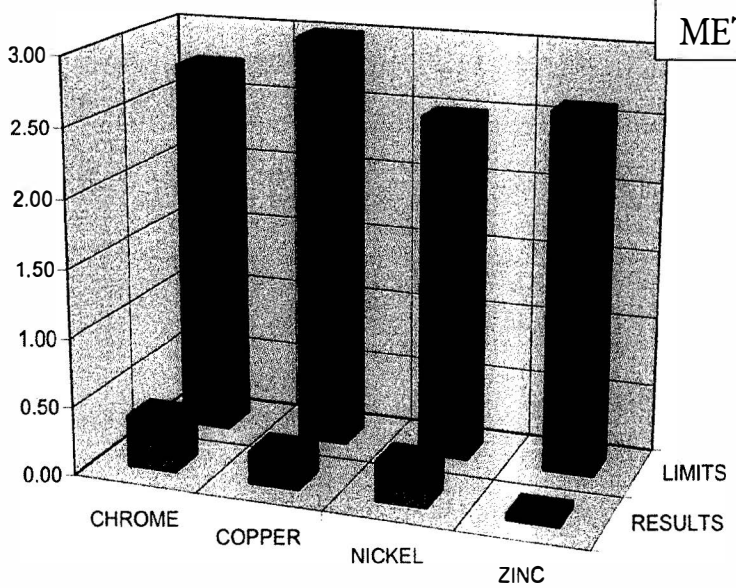
VISUAL REPRESENTATION OF THE LAB RESULTS

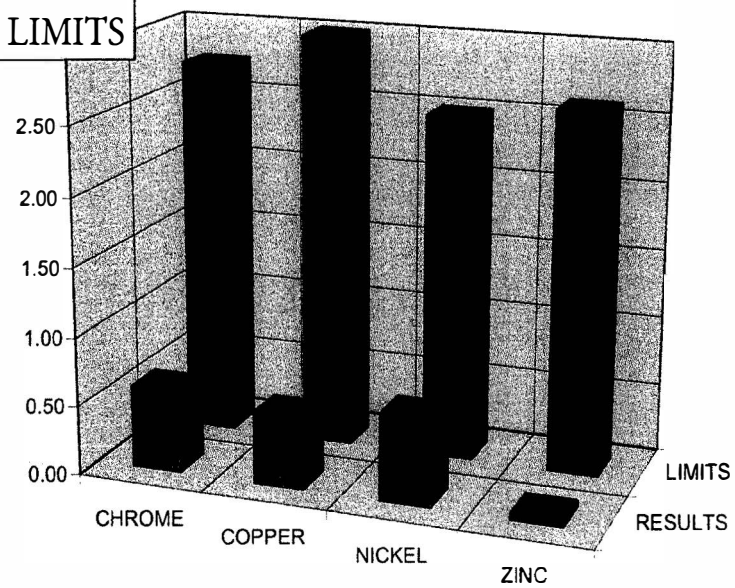
NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.24	0.20	0.21	0.05
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.26	0.21	0.19	0.05
LIMITS	2.75	3.00	2.50	2.61

JUNE
METRO LIMITS





ALASKAN COPPER WORKS 3200 FACILITY JUNE 19, 2014 COMPOSITE M134459	ALASKAN COPPER WORKS 3200 FACILITY JUNE 26, 2014 COMPOSITE M134514

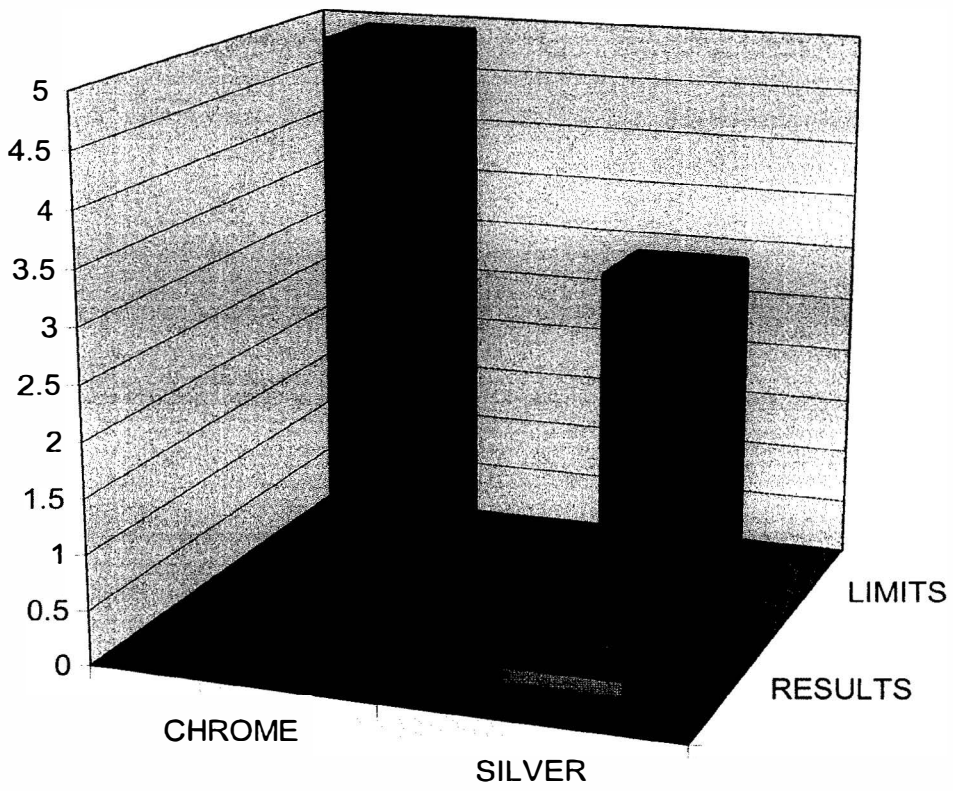
VISUAL REPRESENTATION OF THE LAB RESULTS

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

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.38	0.24	0.29	0.05
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.60	0.52	0.63	0.05
LIMITS	2.75	3.00	2.50	2.61

2 ND QUARTER



ALASKAN COPPER WORKS
3200 X-RAY DEPT.
MAY 15, 2014
GRAB M001922

	CHROME	SILVER
RESULTS	0.03	0.16
LIMITS	5.00	3.00

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/21/14
Date Received: 05/15/14
Project: M001922, F&BI 405289
Date Extracted: NA
Date Analyzed: 05/15/14

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR pH USING EPA METHOD 9040C

Sample ID Laboratory ID	pH
M001922 405289-01	6.22

AKC-0003043

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M134435	Client:	Alaskan Copper Works
Date Received:	06/05/14	Project:	Metro Self Monitor M134435
Date Extracted:	06/10/14	Lab ID:	406098-01 x10
Date Analyzed:	06/10/14	Data File:	406098-01 x10.015
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	249
Nickel	215
Copper	204
Zinc	<50.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M002041	Client:	Alaskan Copper Works
Date Received:	06/12/14	Project:	Metro Self Monitor M002041, F&BI 406206
Date Extracted:	06/16/14	Lab ID:	406206-01 x10
Date Analyzed:	06/16/14	Data File:	406206-01 x10.025
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	263
Nickel	192
Copper	211
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M134459	Client:	Alaskan Copper Works
Date Received:	06/19/14	Project:	Metro Self Monitor M134459, F&BI 406346
Date Extracted:	06/24/14	Lab ID:	406346-01 x10
Date Analyzed:	06/24/14	Data File:	406346-01 x10.046
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	383
Nickel	295
Copper	240
Zinc	<50

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M134514	Client:	Alaskan Copper Works
Date Received:	06/26/14	Project:	M134514, F&BI 406481
Date Extracted:	06/27/14	Lab ID:	406481-01 x10
Date Analyzed:	06/27/14	Data File:	406481-01 x10.028
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	607
Nickel	635
Copper	520
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	6/23	7 AM	16.7	17	11.16	10.98	—	—	730	39	121	112	146				forgot to reset
		3 PM	16.7	16	11.01	10.87	—	—	730	39	123	129	123				
		11PM	16.4	13	10.27	11.45	—	—	1668	40	130	126	122				
TUESDAY	6/24	7 AM	16.4	13	10.10	11.38	—	—	1668	40	120	126	130				
		3 PM	16.2	12	10.32	11.23	—	—	Ø	Ø	122	126	118				
		11PM	16.2	10	10.61	11.24	—	—	218	3	121	118	122				
WEDNESDAY	6/25	7 AM	16.2	10	10.63	11.17	—	—	218	3	121	124	132				
		3 PM	16.2	10	9.60	11.00	—	—	Ø	Ø	130	121	118				
		11PM	16.0	8	9.77	10.87	—	—	482	6	122	117	121				
THURSDAY	6/26	7 AM	16.0	8	9.76	10.80	—	—	482	6	120	128	128				
		3 PM	16.0	8	11.28	10.69	—	—	Ø	Ø	123	118	119				
		11PM	16.0	1	9.87	10.03	—	—	736	Ø	126	119	122				
FRIDAY	6/27	7 AM	16.0	1	9.95	10.99	—	—	736	Ø	123	123	136				
		3 PM	16.0	1	10.53	10.91	—	—	Ø	2	131	128	121				
		11PM	15.7	13	10.07	11.18	—	—	1026	1	126	126	120				
SATURDAY																	
SUNDAY																	

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

AKC-0003048

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	6/16	7 AM	17.2	9	9.78	10.50	—	—	871	3	143	112	122				
		3 PM	17.2	8	11.17	10.38	—	—	293	1	126	126	118				
		11PM	17.0	2	10.38	10.58	—	—	802	3	119	118	120				
TUESDAY	6/17	7 AM	17.0	2	10.32	10.84	—	—	802	3	122	124	140				
		3 PM	17.0	17	9.95	11.40	—	—	1360	4	132	123	122				
		11PM	17.0	15	10.66	11.35	—	—	1708	10	124	123	122				
WEDNESDAY	6/18	7 AM	17.0	15	10.58	11.29	—	—	1708	10	126	127	132				Sensor to Reset
		3 PM	17.0	15	9.68	11.13	—	—	Ø	7	128	128	122				
		11PM	16.7	10	9.73	10.86	—	—	884	Ø	120	126	124				
THURSDAY	6/19	7 AM	16.7	10	9.66	10.80	—	—	884	Ø	110	128	124				
		3 PM	16.5	8	11.13	10.92	—	—	549	Ø	129	128	114				
		11PM	16.5	6	10.22	11.38	—	—	892	Ø	120	120	122				
FRIDAY	6/20	7 AM	16.5	6	10.20	11.41	—	—	892	Ø	120	127	155				
		3 PM	16.5	6	9.97	11.21	—	—	Ø	2	125	119	124				
		11PM	16.7	17	9.76	11.48	—	—	730	3	132	127	124				
SATURDAY																	
SUNDAY																	

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

AKC-0003049

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	6/9	7 AM	18.2	13	10.91	10.42	-	-	672	24	112	82	104				
		3 PM	17.9	12	9.65	10.31	-	-	258	2	131	127	119				
		11PM	17.9	10	9.75	10.40	-	-	751	14	134	118	119				
TUESDAY	6/10	7 AM	17.9	10	9.64	10.37	-	-	751	14	122	121	142				
		3 PM	17.9	10	10.58	10.25	-	-	Ø	6	134	128	123				
		11PM	17.9	8	9.94	10.54	-	-	575	20	118	122	123				
WEDNESDAY	6/11	7 AM	17.9	8	9.73	10.58	-	-	575	20	114	128	131				
		3 PM	17.4	8	9.51	10.62	-	-	267	21	132	128	128				
		11PM	17.4	5	9.88	10.69	-	-	659	10	128	127	128				
THURSDAY	6/12	7 AM	17.4	5	9.68	10.58	-	-	659	10	142	125	124				
		3 PM	17.3	2	9.85	10.49	-	-	Ø	13	127	128	129				
		11PM	17.4	15	9.85	10.72	-	-	799	2	119	123	128				
FRIDAY	6/13	7 AM	17.4	15	9.71	10.64	-	-	799	2	111	127	126				
		3 PM	17.5	15	9.58	10.57	-	-	Ø	Ø	131	118	128				
		11PM	17.2	9	9.87	10.87	-	-	871	Ø	132	116	127				
SATURDAY																	
SUNDAY																	

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

AKC-0003050

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	6-2	7 AM	20.0	14	11.58	10.77	-	-	9.38	26	132	121	136				
		3 PM	19.6	13	10.37	10.54	—	—	1367	26	93	125	123				
		11PM	19.4	10	9.66	11.29	-	—	2240	4	129	119	122				
TUESDAY	6-3	7 AM	19.4	10	9.14	11.26	—	—	2240	4	130	128	132				Sent to Reset Flow
		3 PM	19.5	10	10.10	11.11	—	—	Ø	5	133	128	126				
		11PM	19.3	8	10.08	10.94	—	—	694	1	123	125	124				
WEDNESDAY	6-4	7 AM	19.3	8	9.80	10.84	-	-	694	1	96	128	128				
		3 PM	19.2	7	9.68	10.75	—	—	187	44	125	118	129				
		11PM	19.0	1	10.07	10.64	—	—	878	2	135	128	129				
THURSDAY	6-5	7 AM	19.0	1	9.98	10.54	-	-	878	2	136	128	125				
		3 PM	18.9	16	9.77	10.42	—	—	Ø	4	128	118	130				
		11PM	18.7	15	10.03	10.68	—	—	671	7	124	119	127				
FRIDAY	6-6	7 AM	18.7	15	10.03	10.64	-	-	671	7	121	127	126				
		3 PM	18.4	15	9.12	[illegible]	—	—	Ø	2	135	126	130				
		11PM	18.2	13	10.12	10.76	—	—	672	17	130	108	126				
SATURDAY																	
SUNDAY																	

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