King County

Industrial Waste Quarterly 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

AKC-0003243

Company Name: ALASKAN COPPER WORKS 6TH AVE. S.

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

Please specify year: 2013 **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									1540
								discharged for April	
May									1610
								Total volume discharged for May	
June									1470
	6/13/13	G	6.43	1.42	.46			70	
								Total volume discharged for June	

July 2013

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

7/6/13
Date

→ Maximum daily flow from this quarter: 70 **gallons.** Date on which maximum daily flow occurred: 6/13/13

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

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AKC-0003244

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Please specify year: 2013 **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									1540
	Total volume discharged for April								
May									1610
	Total volume discharged for May								
June									1470
	6/13/13	G	6.43	1.42	.46			70	
	Total volume discharged for June								

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Signature of Principal Executive or Authorized Agent

7-16-13
Date

→ Maximum daily flow from this quarter: 70 **gallons.** Date on which maximum daily flow occurred: **6/13/13**

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

King County

Industrial Waste Monthly 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

AKC-0003245

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

Please Specify Month & Year: **Month:** JULY **2013** **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)	NP Fats, Oils, and Grease (Average of 3 grabs)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1		10.2	10.3											884	
2		10.3	11.4											1101	
3	C	10.7	11.3		.15	.23			.15		.01			991	
4		—	—											—	HOLIDAY
5		10.2	10.5											528	
6		—	—											—	
7		—	—											—	
8		9.9	10.4											1195	
9		10.0	10.4											1145	
10		10.1	10.2											1637	
11	C	10.0	10.2		.24	.16			.18		.01			1067	
12		10.0	10.2											1109	
13		—	—											—	
14		—	—											—	
15		9.0	10.4											757	
16		10.1	10.4											933	
17		9.9	10.1											1493	
18	C	9.9	10.2											618	
19		10.0	10.1		.20	.19			.17		.01			882	
20		—	—											—	
21		—	—											—	
22		9.6	10.2											962	
23		10.1	10.2											1093	
24		10.0	10.3											800	
25	C	10.1	10.4											963	
26		10.3	10.6		.08	.07			.03		.01			1015	
27		—	—											—	
28		—	—											—	
29		10.1	10.3											737	
30		10.2	10.8											967	
31		10.2	10.4											894	

Monthly Min pH	9.0	& Date	7/15/13
Monthly Max pH	11.4	& Date	7/2/13

Total Monthly Flow (gallons)	21771		
Maximum Daily Flow	1637	& Date	7/10/13

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 8/5/13

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

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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

AKC-0003246

Company Name: ALASKAN COPPER WORK E. MARGINAL WAY **Sample Site No.** A-4009 **Permit/DA No.:** 7201-4

Please Specify Month & Year: **Month:** JULY **2013** **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)	NP Fats, Oils, and Grease (Average of 3 grabs)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
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21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															

NOT IN USE THIS MONTH

Monthly Min pH _____ & Date _____ Total Monthly Flow (gallons) _____

Monthly Max pH _____ & Date _____ Maximum Daily Flow _____ & Date _____

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

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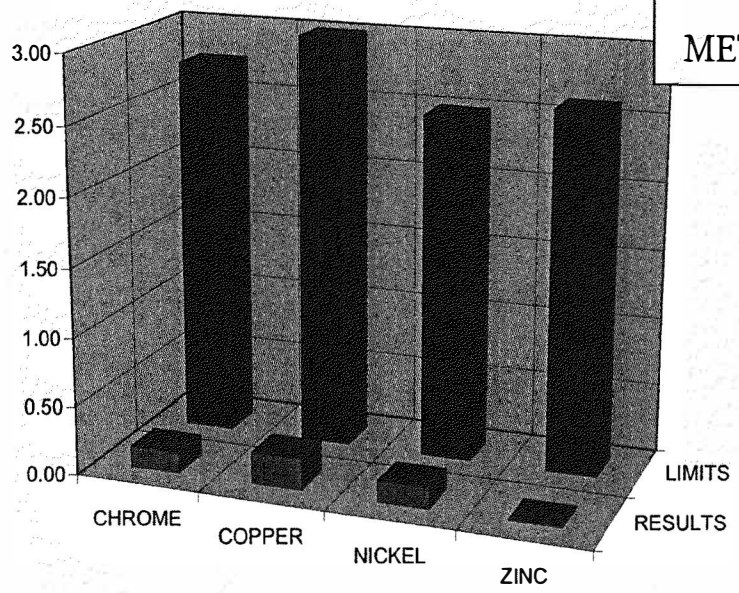
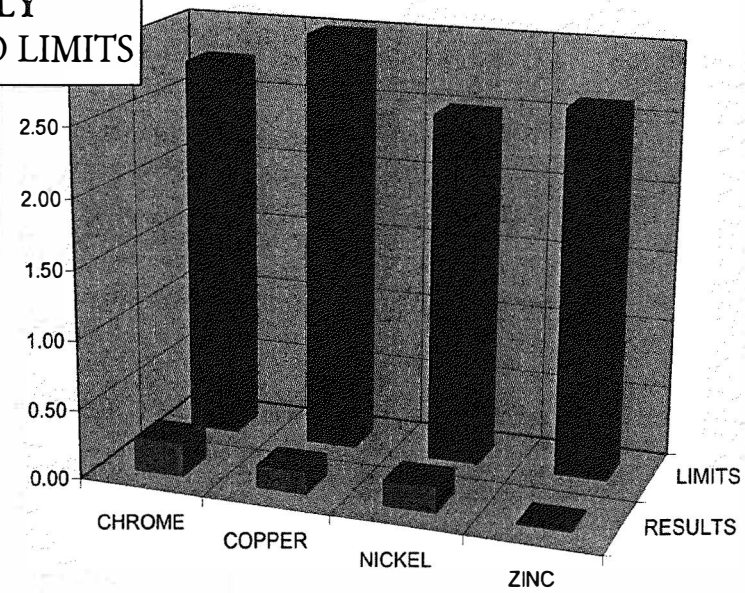
Signature of Principal Executive or Authorized Agent _____ Date _____

JULY
METRO LIMITS





ALASKAN COPPER WORKS	ALASKAN COPPER WORKS
3200 FACILITY	3200 FACILITY
JULY, 03 2013	JULY 11, 2013
COMPOSITE M132613	COMPOSITE M000782

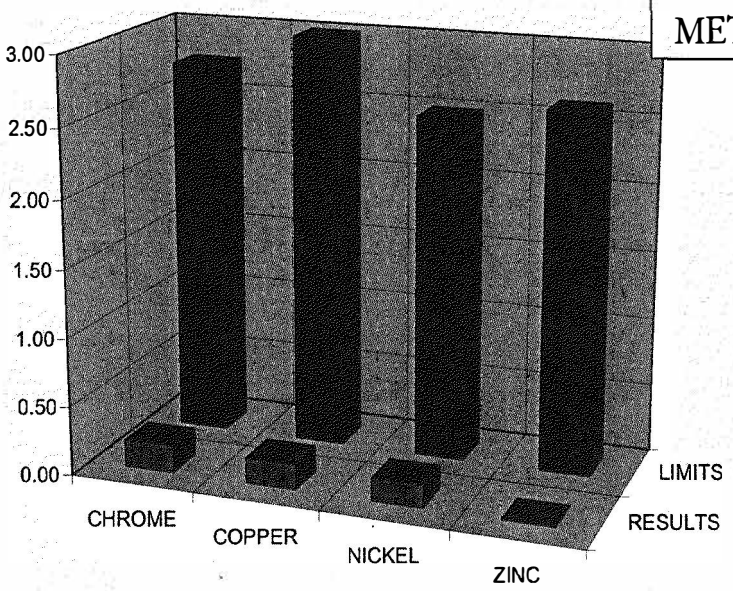
VISUAL REPRESENTATION OF THE LAB RESULTS

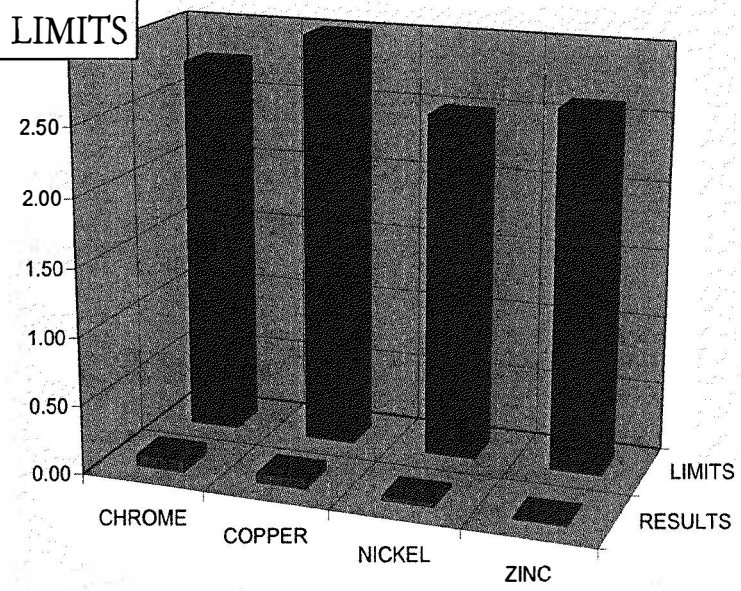
NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.15	0.23	0.15	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.24	0.16	0.18	0.01
LIMITS	2.75	3.00	2.50	2.61

JULY
METRO LIMITS





ALASKAN COPPER WORKS
3200 FACILITY
JULY 18 , 2013
COMPOSITE M000821

ALASKAN COPPER WORKS
3200 FACILITY
JULY 25, 2013
COMPOSITE M000846

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	0.20	0.19	0.17	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.08	0.07	0.03	0.01
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:	M132613	Client:	Alaskan Copper Works
Date Received:	07/03/13	Project:	Metro Self Monitor, M132613, F&BI 307053
Date Extracted:	07/09/13	Lab ID:	307053-01 x10
Date Analyzed:	07/09/13	Data File:	307053-01 x10.058
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	153
Nickel	152
Copper	231
Zinc	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M000782	Client:	Alaskan Copper Works
Date Received:	07/11/13	Project:	M000782, F&BI 307144
Date Extracted:	07/12/13	Lab ID:	307144-01 x10
Date Analyzed:	07/17/13	Data File:	307144-01 x10.021
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	72	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	245
Nickel	184
Copper	165
Zinc	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M000821	Client:	Alaskan Copper Works
Date Received:	07/18/13	Project:	M000821, F&BI 307261
Date Extracted:	07/22/13	Lab ID:	307261-01 x10
Date Analyzed:	07/23/13	Data File:	307261-01 x10.078
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	85	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	205
Nickel	172
Copper	196
Zinc	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M000846	Client:	Alaskan Copper Works
Date Received:	07/25/13	Project:	METRO Self Monitor M000846, F&BI 307385
Date Extracted:	07/29/13	Lab ID:	307385-01 x10
Date Analyzed:	07/30/13	Data File:	307385-01 x10.037
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	85	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	85.7
Nickel	39.2
Copper	72.8
Zinc	<10

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	7/1	7 AM	21.8	5	9.82	10.26	—	—	884	7	114	123	118				Forgot to reset
		3 PM	21.4	15	9.66	10.33	—	—	1492	10	121	121	129				pac press not pumping
		11PM	21.2	13	10.75	10.38	—	—	1985	29	123	129	128				
TUESDAY	7/2	7 AM	21.2	13	10.88	10.70	—	—	~~1985~~	~~27~~	125	128	125				1985 884 1101
		3 PM	20.5	13	11.24	10.38	—	—	434	12	129	130	127				
		11PM	20.1	10	10.83	11.43	—	—	991	20	140	128	128				
WEDNESDAY	7/3	7 AM	20.1	10	10.66	11.37	—	—	991	20	127	125	126				
		3 PM	20.3	10	10.64	11.17	—	—	000	3	129	121	132				
		11PM	20.2	8	10.54	10.75	—	—	528	10	129	123	119				
THURSDAY	7/4	7 AM															Holiday
		3 PM															
		11PM															
FRIDAY	7/5	7 AM	20.2	8	10.28	10.50	—	—	528	10	123	127	92				
		3 PM	20.2	7	10.41	10.29	—	—	302	3	127	119	92				
		11PM	20.0	1	10.61	10.43	—	—	1195	9	125	121	118				
SATURDAY																	
SUNDAY																	

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

AKC-0003253

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	7/8	7 AM	20.0	1	9.80	9.94	—	—	1195	9	116	126	111				
		3 PM	19.7	13	10.33	10.05	—	—	741	1	121	121	128				
		11PM	16.8	10	9.68	10.42	—	—	1145	125	123	119	121				
TUESDAY	7/9	7 AM	16.8	10	9.52	10.33	—	—	1145	126	122	124	158				
		3 PM	16.5	10	9.73	10.03	—	—	308	4	125	122	131				
		11PM	16.4	4	10.13	10.40	—	—	1637	4	133	120	127				
WEDNESDAY	7/10	7 AM	16.4	5	9.80	10.25	—	—	1637	4	121	123	147				
		3 PM	16.4	3	9.71	10.26	—	—	191	8	121	126	130				
		11PM	16.1	13	10.73	10.14	—	—	1067	20	100	129	126				
THURSDAY	7/11	7 AM	16.1	13	10.20	10.51	—	—	1067	20	143	120	122				
		3 PM	15.9	12	9.62	10.09	—	—	212	4	119	122	116				
		11PM	15.8	8	10.13	10.29	—	—	1109	12	127	117	128				
FRIDAY	7/12	7 AM	15.8	8	9.82	10.20	—	—	1109	13	125	129	145				
		3 PM	16.1	8	9.72	10.10	—	—	667	5	123	129	128				
		11PM	16.0	7	9.88	10.03	—	—	757	12	119	128	129				
SATURDAY																	
SUNDAY																	

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

AKC-0003254

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	7/15	7 AM	15.5	7	11.71	9.05	–	–	268	18	136	128	108				
		3 PM	15.4	5	9.54	10.33	–	–	405	4	120	123	127				
		11PM	15.5	2	10.17	10.47	–	–	933	6	125	120	127				
TUESDAY	7/16	7 AM	15.5	2	10.07	10.47	–	–	933	6	128	128	152				
		3 PM	15.3	14	9.59	10.26	–	–	1493	9	123	121	127				
		11PM	15.4	15	9.82	10.13	–	–	1493	12	121	122	129				
WEDNESDAY	7/17	7 AM	15.3	15	9.80	10.12	–	–	1493	12	129	128	140				
		3 PM	15.4	15	10.20	10.05	–	–	000	Ø	127	128	128				
		11PM	15.5	15	10.13	9.96	–	–	618	6	118	128	127				
THURSDAY	7/18	7 AM	15.5	15	10.26	9.90	–	–	618	6	130	126	149				
		3 PM	15.5	1	0		–	–	347	Ø	124	127	129				
		11PM	15.6	13	9.87	10.23	–	–	882	11	124	126	125				
FRIDAY	7/19	7 AM	15.5	13	10.05	10.18	–	–	882	11	126	121	125				
		3 PM	15.3	11	9.95	10.01	–	–	578	6	128	119	122				
		11PM	15.3	10	10.76	10.00	–	–	962	11	120	129	128				
SATURDAY																	
SUNDAY																	

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

AKC-0003255

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	7/22	7 AM	15.3	10	10.14	9.66	—	—	962	11	129	128	110				
		3 PM	15.4	8	9.75	9.89	—	—	455	3	123	123	129				
		11PM	15.4	5	9.78	10.24	—	—	1093	14	120	129	127				
TUESDAY	7/23	7 AM	15.4	5	9.73	10.12	—	—	1093	15	124	122	123				
		3 PM	15.4	5	10.15	10.20	—	—	275	6	122	125	130				
		11PM	15.4	2	10.16	10.20	—	—	800	15	120	125	122				
WEDNESDAY	7/24	7 AM	15.3	2	10.58	10.04	—	~~800~~	800	15	127	119	134				
		3 PM	15.4	16	10.48	10.20	—	—	380	24	128	121	121				
		11PM	15.4	14	10.84	10.35	—	—	963	36	125	119	121				
THURSDAY	7/25	7 AM	15.4	14	10.16	10.17	—	—	963	38?	120	118	138				
		3 PM	15.4	14	10.92	10.38	—	—	530	9	116	119	126				
		11PM	15.4	10	10.72	10.48	—	—	1015	14	125	121	127				
FRIDAY	7/26	7 AM	15.4	10	10.62	10.36	—	—	1015	15	119	129	144				
		3 PM	13.6	10	9.77	10.60	—	—	330	6	125	128	128				
		11PM	13.8	8	10.12	10.57	—	—	737	11	136	125	130				
SATURDAY																	
SUNDAY																	

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

AKC-0003256