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-0003295

Company Name: ALASKAN COPPER WORKS 6TH AVE. S. **Sample Site No.** A-4010 **Permit/DA No.:** 7238-05

Please Specify Month & Year: **Month:** OCTOBER **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)	Nonpolar Fats, Oils, & Grease (Average of 3 grabs)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1		10.1	10.4											1587	
2		10.0	10.1											1157	
(3)	C	9.9	10.6		.15	.12			.12		.01			469	
4		10.3	10.5											1424	
5		—	—											—	
6		—	—											—	
7		10.0	10.1											727	
8		10.0	10.7											738	
9		10.6	10.8											1359	
(10)	C	10.3	10.4		.29	.22			.27					964	
11		10.1	10.3											896	
12		—	—											—	
13		—	—											—	
14		9.9	10.1											1211	
15		10.0	10.2											767	
16		10.1	10.4											408	
(17)	C	10.0	10.2		.19	.16			.18		.01			940	
18		10.1	10.2											1020	
19		—	—											—	
20		—	—											—	
21		9.9	10.3											493	
22		10.2	10.3											1390	
23		10.1	10.8											1299	
(24)	C	10.1	10.7		.17	.16			.13		.01			924	
25		9.9	10.1											1226	
26		—	—											—	
27		—	—											—	
28		9.8	9.9											1301	
29		9.8	10.4											880	
30		10.4	10.5											1190	
(31)	C	10.3	10.5		.17	.14			.11		.01			362	

Oct 2013

Monthly Min pH	9.8	& Date	10/28/13	Total Monthly Flow (gallons)	22732
Monthly Max pH	10.8	& Date	10/09/13	Maximum Daily Flow	1424 & Date 10/04/13

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: James Gaum Date: 11/8/13

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

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Email: info.KCIW@kingcounty.gov

AKC-0003296

Company Name: ALASKAN COPPER WORKS 6TH AVE. S. **Sample Site No.** A-4010 **Permit/DA No.:** 7238-05

Please Specify Month & Year: **Month:** OCTOBER **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)	Nonpolar Fats, Oils, & Grease (Average of 3 grabs)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1		10.1	10.4											1587	
2		10.0	10.1											1157	
(3)	C	9.9	10.6		.15	.12			.12		.01			469	
4		10.3	10.5											1424	
5		—	—											—	
6		—	—											—	
7		10.0	10.1											727	
8		10.0	10.7											738	
9		10.6	10.8											1359	
(10)	C	10.3	10.4		.29	.22			.27		.01			964	
11		10.1	10.3											896	
12		—	—											—	
13		—	—											—	
14		9.9	10.1											1211	
15		10.0	10.2											767	
16		10.1	10.4											408	
(17)	C	10.0	10.2		.19	.16			.18		.01			940	
18		10.1	10.2											1020	
19		—	—											—	
20		—	—											—	
21		9.9	10.3											493	
22		10.2	10.3											1390	
23		10.1	10.8											1299	
(24)	C	10.1	10.7		.17	.16			.13		.01			924	
25		9.9	10.1											1226	
26		—	—											—	
27		—	—											—	
28		9.8	9.9											1301	
29		9.8	10.4											880	
30		10.4	10.5											1190	
(31)	C	10.3	10.5		.17	.14			.11		.01			362	

Monthly Min pH	9.8	& Date	10/28/13	Total Monthly Flow (gallons)	22732
Monthly Max pH	10.8	& Date	10/09/13	Maximum Daily Flow	1424 & Date 10/04/13

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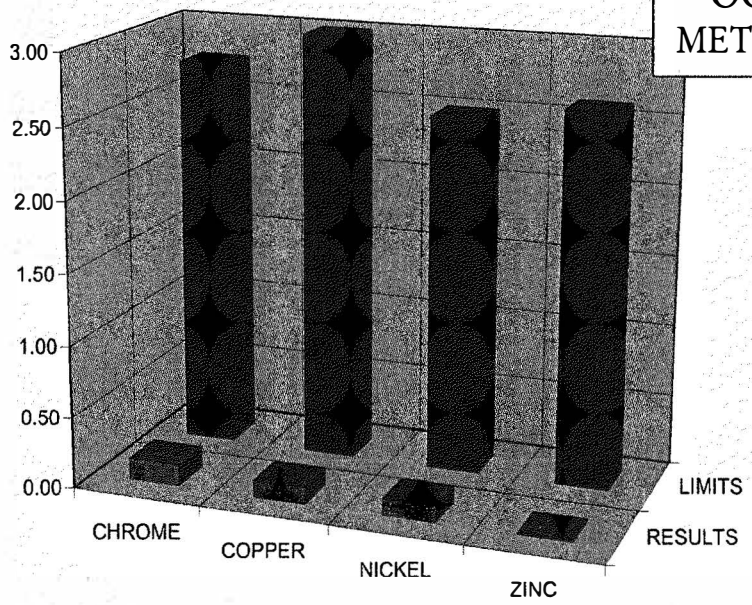
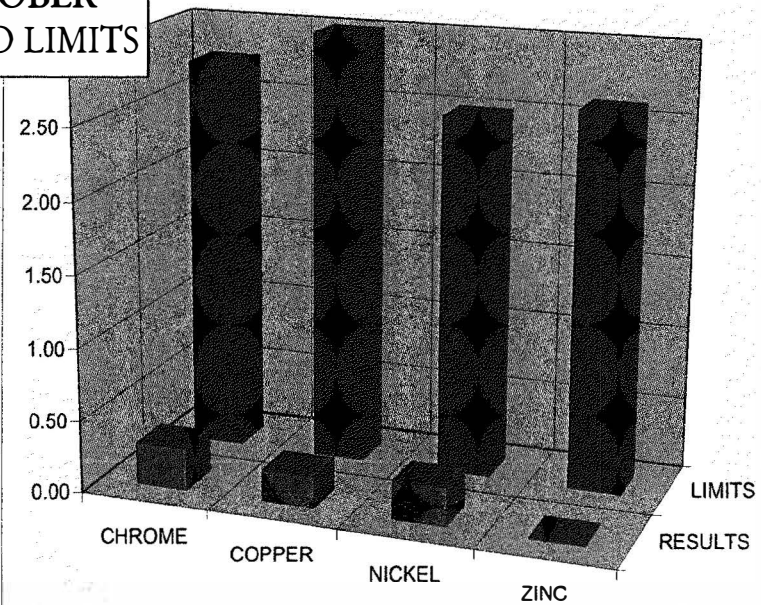
Signature of Principal Executive or Authorized Agent: [signature] Date 11/8/13

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

OCTOBER
METRO LIMITS





ALASKAN COPPER WORKS 3200 FACILITY OCTOBER 3, 2013 COMPOSITE M001087	ALASKAN COPPER WORKS 3200 FACILITY OCTOBER 10, 2013 COMPOSITE M001132

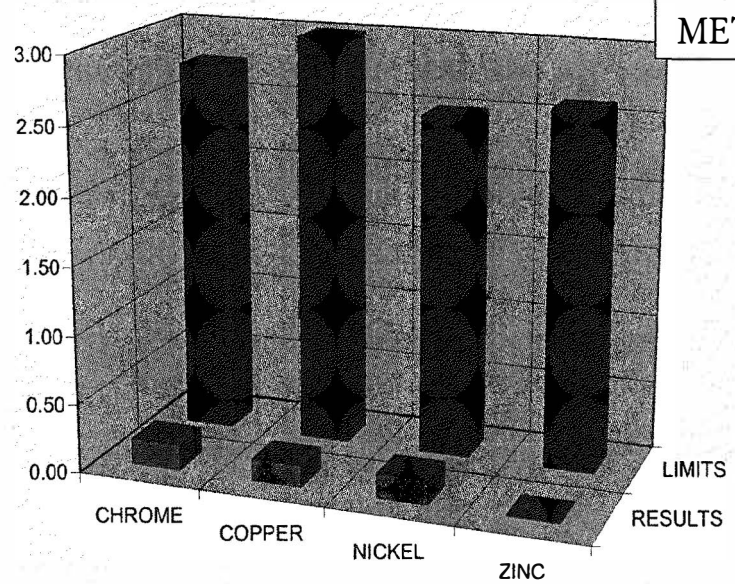
VISUAL REPRESENTATION OF THE LAB RESULTS

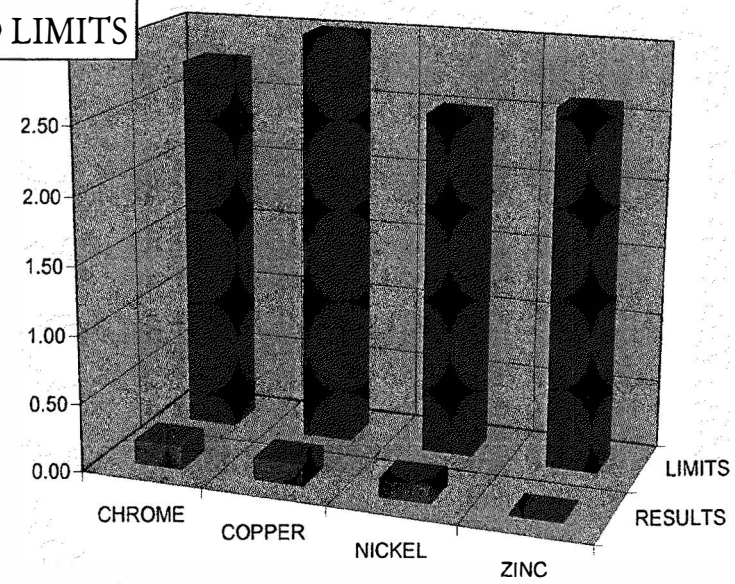
NOTE: ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.15	0.12	0.12	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.29	0.22	0.27	0.01
LIMITS	2.75	3.00	2.50	2.61

OCTOBER
METRO LIMITS





ALASKAN COPPER WORKS
3200 FACILITY
OCTOBER 17, 2013
COMPOSITE M001150

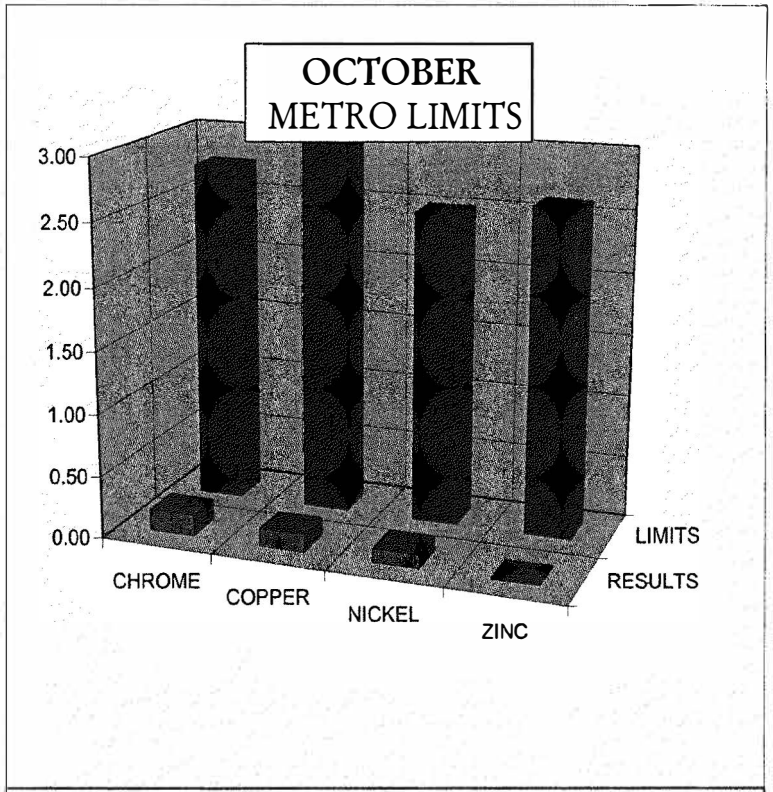
ALASKAN COPPER WORKS
3200 FACILITY
OCTOBER 24, 2013
COMPOSITE M001182

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	0.19	0.16	0.18	0.01
LIMITS	2.75	3.00	2.50	2.61

	CHROME	COPPER	NICKEL	ZINC
RESULTS	0.17	0.16	0.13	0.01
LIMITS	2.75	3.00	2.50	2.61



ALASKAN COPPER WORKS
3200 FACILITY
OCTOBER 31, 2013
COMPOSITE M001211

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	0.17	0.14	0.11	0.01
LIMITS	2.75	3.00	2.50	2.61

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AKC-0003300

Company Name: ALASKAN COPPER WORKS 3600 E. MARGINAL WAY **Sample Site No.** A-4009 **Permit/DA No.:** 7201-04

Please Specify Month & Year: **Month:** OCTOBER **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)	Nonpolar Fats, Oils, & Grease (Average of 3 grabs)	Daily Flow (GPD) Industrial	Notes (Indicate Batch Discharges)
1															
2															
3															
4															
5															
6															
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29															
30															
31															

NOT IN USE THIS MONTH

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

11/8/13
Date

PLEASE CIRCLE ALL PERMIT VIOLATIONS

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001087	Client:	Alaskan Copper Works
Date Received:	10/03/13	Project:	Metro Self Monitor M001087, F&BI 310067
Date Extracted:	10/09/13	Lab ID:	310067-01 x10
Date Analyzed:	10/09/13	Data File:	310067-01 x10.046
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)
Chromium	158
Nickel	129
Copper	128
Zinc	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001132	Client:	Alaskan Copper Works
Date Received:	10/10/13	Project:	METRO Self Monitor M001132, F&BI 310184
Date Extracted:	10/11/13	Lab ID:	310184-01 x10
Date Analyzed:	10/11/13	Data File:	310184-01 x10.022
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	294
Nickel	277
Copper	220
Zinc	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001150	Client:	Alaskan Copper Works
Date Received:	10/17/13	Project:	M001150, F&BI 310329
Date Extracted:	10/18/13	Lab ID:	310329-01 x10
Date Analyzed:	10/18/13	Data File:	310329-01 x10.075
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	198
Nickel	184
Copper	161
Zinc	10.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001182	Client:	Alaskan Copper Works
Date Received:	10/24/13	Project:	Self-Monitor M001182, F&BI 310470
Date Extracted:	10/28/13	Lab ID:	310470-01 x10
Date Analyzed:	10/28/13	Data File:	310470-01 x10.027
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	84	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	174
Nickel	138
Copper	161
Zinc	15.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M001211	Client:	Alaskan Copper Works
Date Received:	10/31/13	Project:	METRO Self Monitor, F&BI 310617
Date Extracted:	11/04/13	Lab ID:	310617-01 x10
Date Analyzed:	11/04/13	Data File:	310617-01 x10.066
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	74	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	171
Nickel	114
Copper	140
Zinc	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 22, 2013

Joe Kalmer, Project Manager
Landau Associates
130 2nd Ave. S.
Edmonds, WA 98020

Dear Mr. Kalmer:

Included are the results from the testing of material submitted on October 1, 2013 from the 4Q13 SW Sampling PO M001066, F&BI 310006 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Rosemary Trimmer, Gerald Thompson,
NAA1022R.DOC

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	9-30	7 AM	30.2	8	10.60	10.22	–	–	729	0	125	118	127				
		3 PM	29.9	7	10.44	10.20	–	–	572	3	132	126	127				
		11PM	29.5	6	10.81	10.58	–	–	1587	Ø	117	124	113				
TUESDAY	10-1	7 AM	29.5	6	10.26	10.46	–	–	1587	Ø	128	121	142				
		3 PM	[illegible]	[illegible]	[illegible]	10.42	–	–	873	2	129	129	131				
		11PM	29.3	3	10.62	10.17	–	–	1157	Ø	132	124	117				
WEDNESDAY	10-2	7 AM	29.3	3	10.15	10.10	–	–	1157	Ø	130	117	136				
		3 PM	29.4	3	10.97	10.08	–	–	Ø	Ø	127	121	122				
		11PM	29.1	3	10.78	10.17	–	–	469	Ø	115	122	121				
THURSDAY	10-3	7 AM	29.1	5	10.67	10.07	–	–	469	Ø	125	119	122				
		3 PM	29.1	3	10.27	9.99	–	–	469	2	125	123	133				
		11PM	29.1	2	10.40	10.65	–	–	424	Ø	121	121	114				
FRIDAY	10-4	7 AM	29.1	2	10.03	10.53	–	–	424	0	124	126	109				
		3 PM	27.8	2	9.56	10.44	–	–	Ø	3	125	124	124				
		11PM	27.8	2	9.81	10.37	–	–	727	3	122	128	120				
SATURDAY																	
SUNDAY																	

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

AKC-0003307

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	10-7	7 AM	27.8	2	10.36	10.04	–	–	727	7	121	128	131				
		3 PM	28.4	2	[illegible]	[illegible]	–	–	[illegible]	Ø	125	[illegible]	121				
		11PM	28.4	1	10.75	10.12	–	–	738	2	120	117	110				
TUESDAY	10-8	7 AM	28.4	1	10.65	10.06	–	–	738	2	123	124	96				
		3 PM	28.2	1	11.25	10.10	–	–	328	Ø	126	129	119				
		11PM	28.0	15	10.33	10.70	–	–	1359	Ø	120	117	123				
WEDNESDAY	10-9	7 AM	28.0	15	10.28	10.64	–	–	1359	0	127	124	138				
		3 PM	28.0	15	10.03	10.60	–	–	Ø	4	128	128	117				
		11PM	27.5	15	11.79	10.85	–	–	964	Ø	121	127	120				
THURSDAY	10-10	7 AM	27.5	15	10.65	10.42	–	–	964	0	127	123	145				
		3 PM	27.8	15	9.77	10.37	–	–	364	2	125	125	122				
		11PM	27.7	14	11.09	10.48	–	–	896	Ø	128	129	120				
FRIDAY	10-11	7 AM	27.7	14	10.31	10.30	–	–	896	0	122	119	127				
		3 PM	27.8	14	10.33	10.24	–	–	390	5	128	127	125				
		11PM	27.7	13	10.41	10.17	–	–	1211	Ø	123	126	119				
SATURDAY																	
SUNDAY																	

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

AKC-0003308

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	10/4	7 AM	26.3	13	10.05	9.94	–	–	1211	Ø	124	126	117				Forgot to Reset flow
		3 PM	26.6	13	10.54	10.06	–	–	1651	Ø	131	129	122				
		11PM	26.3	13	10.55	10.15	–	–	1978	1	120	122	127				1978 / 1211 / 767
TUESDAY	10/5	7 AM	26.6	13	10.35	10.03	–	–	2167 / 1978	1							Forgot to Reset flow
		3 PM	26.6	13	10.35	10.03	–	–	1978	1	123	129	128				
		11PM	26.6	13	10.83	10.21	–	–	2386	Ø	124	124	116				
WEDNESDAY	10/6	7 AM	26.6	13	10.63	10.10	–	–	408 / 2386	Ø	124	123	95				2386 / 1778 / 608
		3 PM	26.6	12	10.60	10.19	–	–	255	2	128	128	94				
		11PM	26.3	11	10.57	10.45	–	–	940	1	118	119	86				
THURSDAY	10/7	7 AM	26.3	11	9.72	10.08	–	–	940	1	123	12[illegible]	79				
		3 PM	26.5	11	11.72	10.26	–	–	330	3	121	125	128				
		11PM	26.5	10	10.96	10.27	–	–	1020	2	120	118	123				
FRIDAY	10/8	7 AM	26.5	10	10.71	10.27	–	–	1020	2	123	126	107				
		3 PM	26.3	10	10.57	10.19	–	–	Ø	Ø	126	118	127				
		11PM	26.0	10	11.54	10.18	–	–	493	8	123	119	125				
SATURDAY																	
SUNDAY																	

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

AKC-0003309

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	10-21	7 AM	26.0	10	10.57	9.98	–	–	493	8	128	118	99				
		3 PM	25.6	10	11.10	10.01	–	–	884	3	128	131	128				
		11PM	25.1	10	10.42	10.39	–	–	1390	2	121	116	120				
TUESDAY	10-22	7 AM	25.1	10	10.17	10.32	–	–	1390	2	127	119	103				
		3 PM	25.4	10	9.87	10.26	–	–	608	3	123	124	118				
		11PM	24.7	10	10.40	10.24	–	–	1299	7	126	119	124				
WEDNESDAY	10-23	7 AM	24.7	10	10.33	10.18	–	–	1299	7	124	120	100				
		3 PM	25.2	9	12.03	10.10	–	–	Ø	6	119	128	123				
		11PM	25.1	8	10.14	10.86	–	–	924	3	127	116	118				
THURSDAY	10-24	7 AM	25.1	8	9.57	10.77	–	–	924	3	121	122	105				
		3 PM	24.9	7	9.92	10.25	–	–	596	16	129	128	123				
		11PM	24.5	6	10.64	10.14	–	–	1226	8	120	130	119				
FRIDAY	10-25	7 AM	24.5	6	10.01	9.98	–	–	1226	8	126	128	106				
		3 PM	24.7	5	11.36	9.94	–	–	535	15	125	122	122				
		11PM	24.5	3	10.32	10.17	–	–	1301	Ø	127	128	118				
SATURDAY																	
SUNDAY																	

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