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 | 10-1 | 7 AM | 6.5 | 1 | 9.57 | 10.43 | — | — | 2529 | 19 | 118 | 123 | 146 | | | | |
| | | 3 PM | 6.5 | 10 | 10.04 | 10.11 | — | — | 688 | 1 | 119 | 128 | 120 | | | | |
| | | 11PM | 6.5 | 8 | 9.88 | 10.22 | — | — | 1577 | 5 | 122 | 118 | 118 | | | | |
| TUESDAY | 10-2 | 7 AM | 6.5 | 8 | 9.64 | 10.12 | — | — | 1577 | 10 | 127 | 128 | 130 | | | | |
| | | 3 PM | 6.5 | 6 | 10.11 | 10.06 | — | — | 562 | 6 | 122 | 119 | 127 | | | | |
| | | 11PM | 6.3 | 2 | 10.20 | 10.07 | — | — | 1078 | 7 | 122 | 124 | 121 | | | | |
| WEDNESDAY | 10-3 | 7 AM | 6.3 | 2 | 10.11 | 10.01 | — | — | 1078 | 7 | 128 | 124 | 110 | | | | |
| | | 3 PM | 6.3 | 16 | 11.15 | 10.32 | — | — | 1058 | 2 | 119 | 128 | 128 | | | | |
| | | 11PM | 6.3 | 15 | 9.67 | 11.32 | — | — | 1438 | 3 | 118 | 128 | 124 | | | | |
| THURSDAY | 10-4 | 7 AM | 6.3 | 15 | 10.00 | 11.11 | — | — | 1438 | 10 | 127 | 125 | 137 | | | | |
| | | 3 PM | 6.0 | 13 | 9.76 | 10.32 | — | — | 681 | 3 | 128 | 119 | 128 | | | | |
| | | 11PM | 6.1 | 10 | 9.63 | 10.20 | — | — | 1651 | 17 | 124 | 116 | 122 | | | | |
| FRIDAY | 10-5 | 7 AM | 6.1 | 10 | 9.63 | 10.09 | — | — | 1651 | 26 | 124 | 127 | 116 | | | | |
| | | 3 PM | 5.5 | 8 | 9.73 | 10.36 | — | — | 993 | 23 | 121 | 127 | 126 | | | | |
| | | 11PM | 5.3 | 6 | 9.95 | 10.10 | — | — | 1652 | 24 | 120 | 125 | 126 | | | | |
| SATURDAY | | | | | | | | | | | | | | | | | |
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| SUNDAY | | | | | | | | | | | | | | | | | |
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..\WOUT\500-0007, 03/04/99

AKC-0003454

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 | 10-8 | 7 AM | 5.2 | 5 | 10.12 | 9.81 | – | – | 1652 | 29 | 121 | 121 | 123 | | | | |
| | | 3 PM | 5.2 | 16 | 10.93 | 10.52 | – | – | 684 | Ø | 118 | 128 | 122 | | | | |
| | | 11PM | 5.3 | 15 | 10.01 | 10.98 | – | – | 1246 | Ø | 118 | 120 | 121 | | | | |
| TUESDAY | 10-9 | 7 AM | 5.3 | 15 | 11.06 | 10.50 | – | – | 1046 | Ø | 121 | 120 | 128 | | | | |
| | | 3 PM | 5.3 | 15 | 9.81 | 10.62 | – | – | 494 | 3 | 119 | 129 | 120 | | | | |
| | | 11PM | 5.0 | 13 | 9.72 | 10.68 | – | – | 1258 | 19 | 118 | 117 | 118 | | | | |
| WEDNESDAY | 10-10 | 7 AM | 5.0 | 13 | 9.32 | 10.06 | – | – | 1258 | 19 | 127 | 128 | 109 | | | | |
| | | 3 PM | 4.7 | 10 | 9.63 | 10.16 | – | – | 871 | 8 | 120 | 128 | 119 | | | | |
| | | 11PM | 4.7 | 5 | 9.95 | 10.00 | – | – | 1218 | 14 | 118 | 117 | 117 | | | | |
| THURSDAY | 10-11 | 7 AM | 4.7 | 5 | 9.90 | 9.95 | – | – | 1218 | 14 | 125 | 123 | 112 | | | | |
| | | 3 PM | 4.8 | 5 | 11.14 | 9.86 | – | – | 388 | Ø | 122 | 128 | 126 | | | | |
| | | 11PM | 4.7 | 1 | 10.33 | 10.37 | – | – | 1227 | Ø | 118 | 117 | 123 | | | | |
| FRIDAY | 10-12 | 7 AM | 4.7 | 1 | 9.91 | 10.25 | – | – | 1227 | Ø | 115 | 125 | 118 | | | | |
| | | 3 PM | 4.4 | 1 | 11.02 | 10.25 | – | – | 432 | 8 | 128 | 128 | 121 | | | | |
| | | 11PM | 4.2 | 15 | 10.16 | 10.29 | – | – | 809 | 8 | 125 | 117 | 125 | | | | |
| SATURDAY | 10-13 | | 4.2 | 15 | 9.06 | 10.27 | – | – | 809 | 12 | 113 | 110 | 107 | | | | |
| | | 1:00 | 4.2 | 14 | 10.69 | 10.43 | – | – | 438 | 1 | 119 | 121 | 121 | | | | |
| | | 9:00 | 4.2 | 10 | 9.78 | 10.61 | – | – | 1280 | 1 | 116 | 119 | 121 | | | | |
| SUNDAY | | | | | | | | | | | | | | | | | |
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..\WOUT\500-0007, 03/04/99

AKC-0003455

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 | 10-15 | 7 AM | 4.2 | 10 | | 10.39 | — | — | 1280 | 3 | 118 | 120 | 138 | | | | |
| | | 3 PM | 3.9 | 7.5 | 9.92 | 10.13 | — | — | 824 | 14 | 128 | 128 | 119 | | | | |
| | | 11PM | 3.4 | 5 | 10.20 | 10.18 | — | — | 1260 | 40 | 124 | 118 | 122 | | | | |
| TUESDAY | 10-16 | 7 AM | 3.4 | 5 | 10.05 | 10.15 | — | — | 1260 | 40 | 12 | 120 | 114 | | | | |
| | | 3 PM | 2.9 | 3 | 10.78 | 10.41 | — | — | 560 | 8 | 120 | 123 | 128 | | | | |
| | | 11PM | 2.9 | 0 | 10.75 | 10.66 | — | — | 1134 | 21 | 117 | 119 | 121 | | | | |
| WEDNESDAY | 10-17 | 7 AM | 2.9 | 2 | 10.01 | 10.57 | — | — | [illegible] | 24 | 127 | 122 | 128 | | | | King Co. Garbage 201 |
| | | 3 PM | 2.4 | 15 | 11.17 | 10.43 | — | — | 569 | 13 | 120 | 119 | 127 | | | | |
| | | 11PM | 2.5 | 14 | 9.90 | 10.69 | — | — | 1000 | 17 | 119 | 112 | 126 | | | | |
| THURSDAY | 10-18 | 7 AM | 2.5 | 14 | 9.52 | 10.55 | — | — | 1000 | 11 | 128 | 128 | 110 | | | | |
| | | 3 PM | 2.2 | 12 | 9.82 | 10.20 | — | — | 538 | 12 | 122 | 123 | 126 | | | | |
| | | 11PM | 2.2 | 10 | 9.91 | 10.20 | — | — | 926 | 14 | 120 | 124 | 123 | | | | |
| FRIDAY | 10-19 | 7 AM | 2.2 | 10 | 9.75 | 10.06 | — | — | 926 | 14 | 128 | 128 | 110 | | | | |
| | | 3 PM | 1.7 | 9 | 10.85 | 10.10 | — | — | 1419 | 42 | 119 | 118 | 128 | | | | |
| | | 11PM | 1.7 | 7 | 10.07 | 10.41 | — | — | 2064 | 44 | 126 | 128 | 125 | | | | |
| SATURDAY | 10-20 | 6AM | 1.7 | 7 | 6.55 | 10.32 | — | — | 2064 | 48 | 111 | 110 | 109 | | | | |
| | | | | | | | | | | | | | | | | | |
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| SUNDAY | | | | | | | | | | | | | | | | | |
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1138

AKC-0003456

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

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 | 10-22 | 7 AM | 1.5 | 7 | 9.93 | 10.13 | – | – | 322 | 11 | 118 | 104 | 118 | | | | |
| | | 3 PM | 1.5 | 7 | 9.96 | 10.04 | – | – | 870 | Ø | 123 | 123 | 123 | | | | |
| | | 11PM | 1.5 | 5 | 10.29 | 10.32 | – | – | 1751 | 9 | 117 | 116 | 119 | | | | |
| TUESDAY | 10-23 | 7 AM | 1.5 | 5 | 10.19 | 10.24 | – | – | 1751 | 9 | 128 | 128 | 112 | | | | |
| | | 3 PM | 1.2 | 5 | 10.27 | 10.35 | – | – | 616 | 7 | 119 | 128 | 123 | | | | |
| | | 11PM | 1.2 | 3 | 10.51 | 10.65 | – | – | 1201 | 7 | 123 | 116 | 119 | | | | |
| WEDNESDAY | 10-24 | 7 AM | 1.2 | 3 | 9.90 | 10.55 | – | – | 1201 | 7 | 124 | 117 | 128 | | | | |
| | | 3 PM | 1.2 | 15 | 9.98 | 10.56 | – | – | 373 | Ø | 127 | 121 | 123 | | | | |
| | | 11PM | 1.2 | 15 | 9.69 | 10.79 | – | – | 1394 | 7 | 119 | 112 | 123 | | | | |
| THURSDAY | 10-25 | 7 AM | 1.2 | 15 | 9.62 | 10.72 | – | – | 1394 | 7 | 125 | 127 | 113 | | | | |
| | | 3 PM | 1.2 | 12 | 11.54 | 10.44 | – | – | 565 | Ø | 122 | 118 | 121 | | | | |
| | | 11PM | .2 | 10 | 10.56 | 10.75 | – | – | 1203 | 51 | 125 | 128 | 119 | | | | |
| FRIDAY | 10-26 | 7 AM | 3.2 | 10 | 9.97 | 10.65 | – | – | 1203 | 51? | | | | | | | |
| | | 3 PM | 3.2 | 8 | 9.97 | 10.32 | – | – | 406 | Ø | 123 | 127 | 129 | | | | |
| | | 11PM | 3.2 | 5 | 9.93 | 10.53 | – | – | 1135 | Ø | 121 | 118 | 121 | | | | |
| SATURDAY | | | | | | | | | | | | | | | | | |
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| SUNDAY | | | | | | | | | | | | | | | | | |
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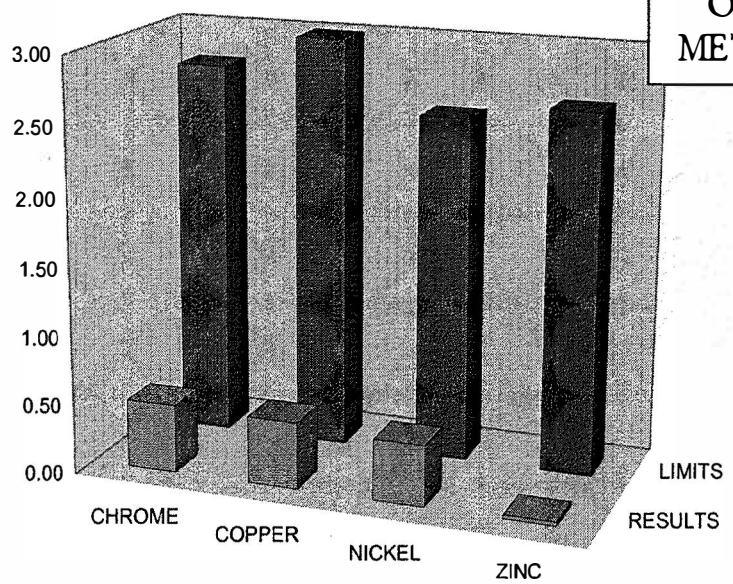
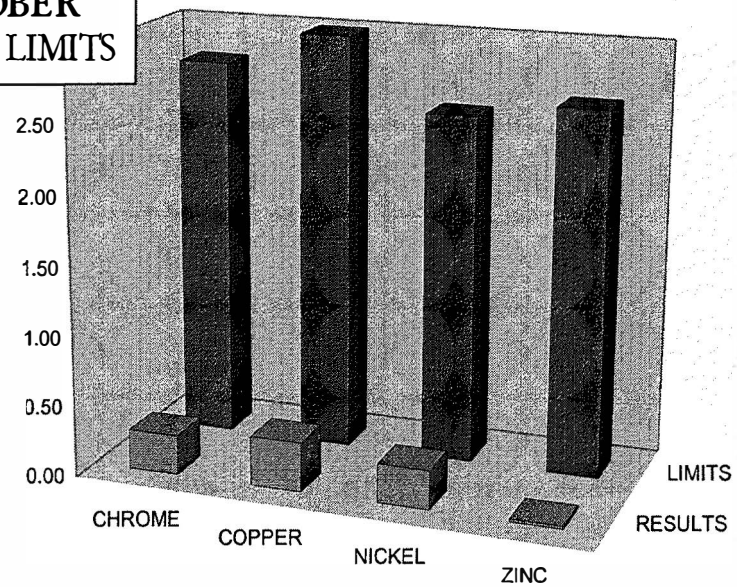
\WOUT\500-0007, 03/04/99

AKC-0003457

# OCTOBER
# METRO LIMITS




| ALASKAN COPPER WORKS<br>3200 FACILITY<br>OCTOBER 4, 2012<br>COMPOSITE M09614 | ALASKAN COPPER WORKS<br>3200 FACILITY<br>OCTOBER11, 2012<br>COMPOSITE M09650 |
|---|---|

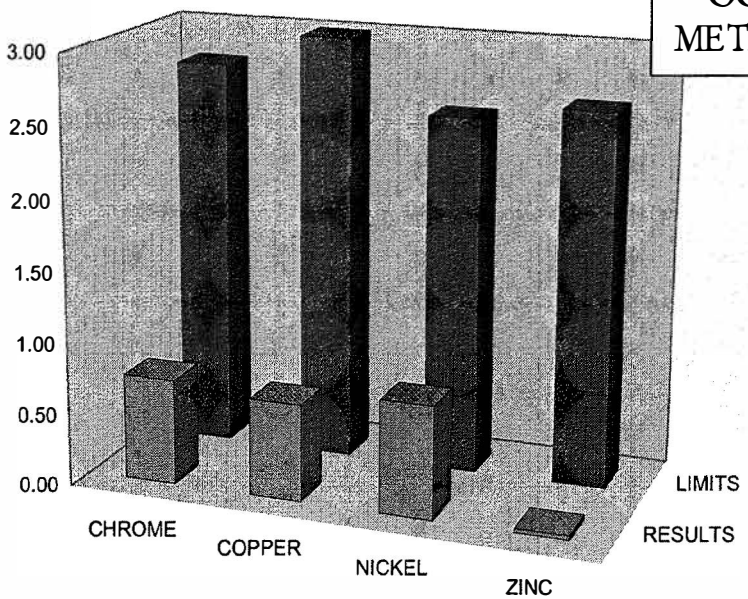
VISUAL REPRESENTATION OF THE LAB RESULTS

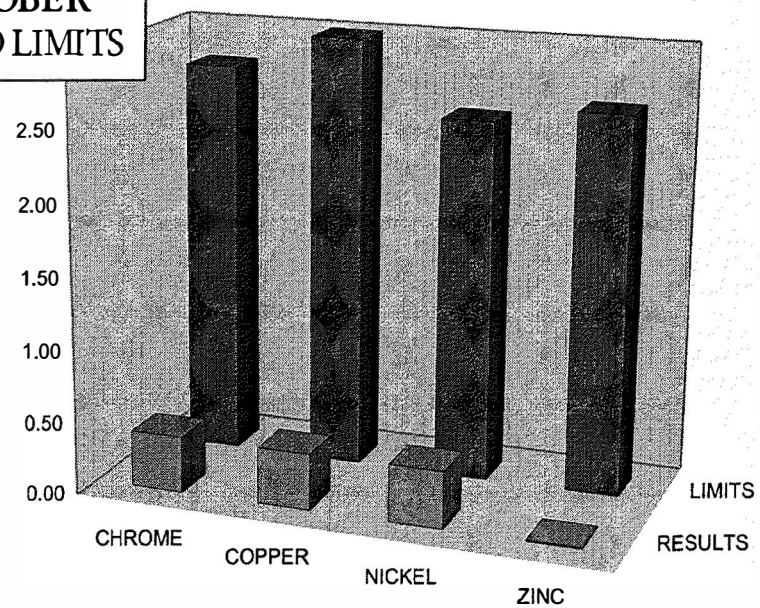
**NOTE:** ALL LABORATORY RESULTS HAVE BEEN CHANGED FROM **ppb** TO **ppm** FOR REPORTING PURPOSES

| | CHROME | COPPER | NICKEL | ZINC |
|---|---|---|---|---|
| RESULTS | 0.49 | 0.48 | 0.44 | 0.03 |
| LIMITS | 2.75 | 3.00 | 2.50 | 2.61 |

| | CHROME | COPPER | NICKEL | ZINC |
|---|---|---|---|---|
| RESULTS | 0.28 | 0.35 | 0.28 | 0.02 |
| LIMITS | 2.75 | 3.00 | 2.50 | 2.61 |

# OCTOBER
## METRO LIMITS



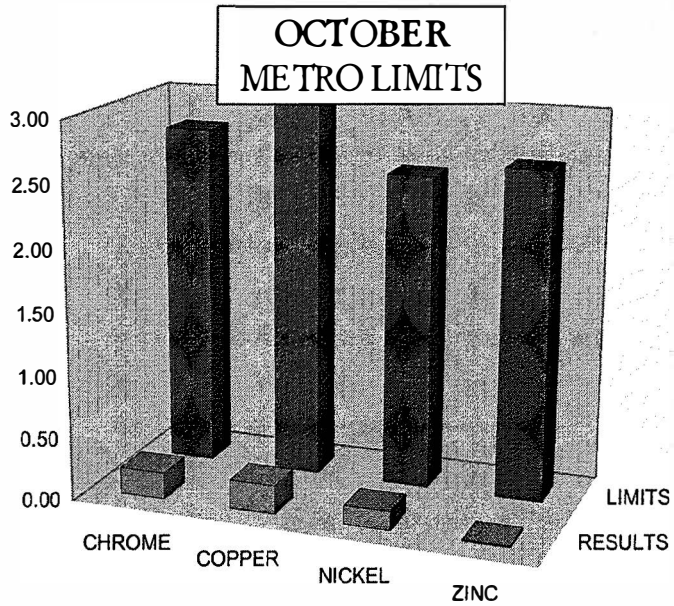

| ALASKAN COPPER WORKS<br>3200 FACILITY<br>OCTOBER 17, 2012<br>K.C. GRAB M131318 | ALASKAN COPPER WORKS<br>3200 FACILITY<br>OCTOBER 18, 2012<br>K.C. COMPOSITE M09671 |
|---|---|

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 | 0.74 | 0.68 | 0.79 | 0.03 |
| LIMITS | 2.75 | 3.00 | 2.50 | 2.61 |

| | CHROME | COPPER | NICKEL | ZINC |
|---|---|---|---|---|
| RESULTS | 0.39 | 0.39 | 0.40 | 0.01 |
| LIMITS | 2.75 | 3.00 | 2.50 | 2.61 |




**ALASKAN COPPER WORKS**
3200 FACILITY
OCTOBER 25, 2012
COMPOSITE M09697

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 | 0.21 | 0.23 | 0.15 | 0.01 |
| LIMITS | 2.75 | 3.00 | 2.50 | 2.61 |

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-0003461

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

***Please Specify Month & Year:*** **Month:** OCTOBER **2012** **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 | | 10.1 | 10.4 | | | | | | | | | | | 2529 | |
| 2 | | 10.0 | 10.1 | | | | | | | | | | | 1577 | |
| 3 | | 10.0 | 11.3 | | | | | | | | | | | 1078 | |
| (4) | C | 10.2 | 11.1 | | .49 | .48 | | | .44 | | .03 | | | 1438 | |
| 5 | | 10.0 | 10.3 | | | | | | | | | | | 1651 | |
| 6 | | —— | —— | | | | | | | | | | | —— | |
| 7 | | —— | —— | | | | | | | | | | | —— | |
| 8 | | 9.8 | 10.9 | | | | | | | | | | | 1652 | |
| 9 | | 10.6 | 10.8 | | | | | | | | | | | 1246 | |
| 10 | | 10.0 | 10.1 | | | | | | | | | | | 1258 | |
| (11) | C | 9.8 | 10.3 | | .28 | .35 | | | .28 | | .02 | | | 1218 | |
| 12 | | 10.2 | 10.2 | | | | | | | | | | | 1227 | |
| 13 | | 10.2 | 10.6 | | | | | | | | | | | 809 | |
| 14 | | —— | —— | | | | | | | | | | | —— | |
| 15 | | 10.1 | 10.3 | | | | | | | | | | | 1280 | |
| 16 | | 10.1 | 10.6 | | | | | | | | | | | 1260 | |
| (17) | G | 10.4 | 10.6 | | .74 | .68 | | | .79 | | .03 | | | 1134 | |
| (18) | C | 10.2 | 10.5 | | .39 | .39 | | | .40 | | .01 | | | 1000 | |
| 19 | | 10.1 | 10.4 | | | | | | | | | | | 926 | |
| 20 | | 10.3 | 10.3 | | | | | | | | | | | 1138 | |
| 21 | | —— | —— | | | | | | | | | | | | |
| 22 | | 10.1 | 10.3 | | | | | | | | | | | 322 | |
| 23 | | 10.2 | 10.6 | | | | | | | | | | | 1751 | |
| 24 | | 10.5 | 10.7 | | | | | | | | | | | 1201 | |
| (25) | C | 10.4 | 10.7 | | .21 | .23 | | | .15 | | .01 | | | 1394 | |
| 26 | | 10.3 | 10.6 | | | | | | | | | | | 1203 | |
| 27 | | —— | —— | | | | | | | | | | | —— | |
| 28 | | —— | —— | | | | | | | | | | | —— | |
| 29 | | 10.2 | 10.5 | | | | | | | | | | | 1133 | |
| 30 | | 10.4 | 10.5 | | | | | | | | | | | 1402 | |
| 31 | | 10.5 | 10.5 | | | | | | | | | | | 919 | |

| | | | | | |
|---|---|---|---|---|---|
| Monthly Min pH | 9.8 | & Date | 10-8-12 | Total Monthly Flow (gallons) | 31746 |
| Monthly Max pH | 11.3 | & Date | 10-3-12 | Maximum Daily Flow | 2529 & Date 10-1-12 |

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

11/5/12
Date

**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

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-0003462

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

***Please Specify Month & Year:*** **Month:** OCTOBER **2012**

**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 | | | | | | | | | | | | | | | |
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| 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.

James Brown 11/5/12

Signature of Principal Executive or Authorized Agent Date

**PLEASE CIRCLE ALL PERMIT VIOLATIONS** **Due Date:** **Monthly report is due by the 15th of each month.**