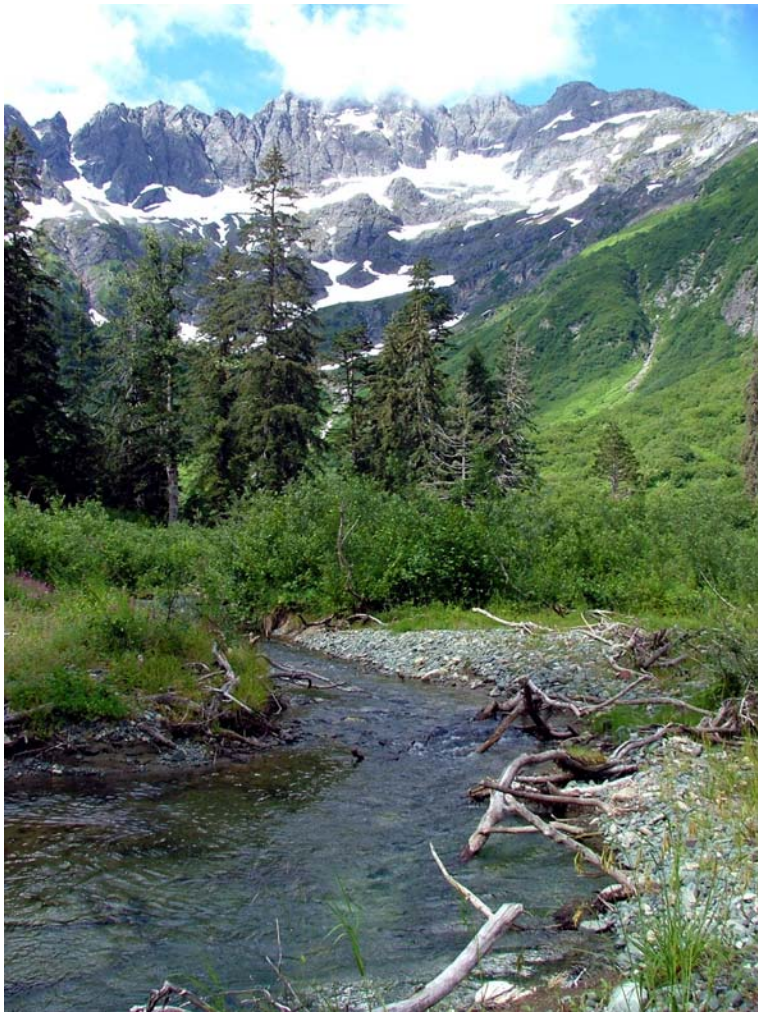
Kensington Gold Project

NPDES Permit AK-005057-1

Annual Water Quality Monitoring Summary
Volume 2:
Water Quality Data
2006



February 2007

Coeur Alaska Inc.

Kensington Gold Project

2006 Hydrologic Annual Report

Table of Contents

List of Tables

List of Figures

APPENDIX A – Duplicate Comparison

APPENDIX B – Flow Data

QC Summary

Plan QC

Coeur Alaska has implemented the approved and prudent quality assurance plan for the 2006 water quality data. Each lab report is reviewed for issues pertinent to the five categories of quality control;

- Precision
- Accuracy
- Representativeness
- Comparability
- Completeness

Based on the results of this review, lab reports, individual samples, or individual parameters within samples may be qualified on a variety of issues as;

- Accepted
- Estimated
- Rejected

No data were rejected from the 2006 dataset, but some parameters within individual samples were flagged as estimated within the database.

Overall data capture was greater than 90%, which is the target for completeness listed in the QAPP and Fresh Water Monitoring Plan.

Monthly sample set field duplicates were collected on a randomly selected basis. The plan criterion for precision is a difference of less than or equal to 20%. While most parameters passed this criterion on most occasions, each field duplicate set contained parameters that failed this criterion. Results of these comparisons are tabulated in **Appendix A**. These parameters were marked in the company database with the appropriate code.

Table 1. Kensington Gold Project 2006 Water Quality Data Quality Control Checks.

Description	Test	Outcome	MLA	MLB	103	105	109	111	112	SLA	SLB	SLC	001EFF	JS2	JS5
	n(1)		7	1	17	17	18	15	14	12	12	11	59	12	12
Normality test, good for n≤50	Shapiro Wilk test (W test) of normality, alpha=0.01	reject normality hypothosis	Cond; DO; SO4; TDS; Hardness; Al; Fe; Hg; Mn	too few to calc stat	Cond(6); DO; NO3; SO4; TDS; Hardness; Mn; Cl; Hg(6)	Cond; DO; SO4	Cond; TDS	Cond; DO; NO3; TDS	Cond	Cond; Fe; SO4(6); TDS; Al	Cond; Al; DO; Hg; SO4(6)	Cond(6); DO; Hg; SO4(6); TDS	NA	Cond(6); DO; SO4; pH	Cond(6); DO; Hg; Hardness; pH; SO4; TDS
Normality test, good for n<=1000	Studentized range test, alpha=0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Cd; Cu(6); Hardness	NA	NA
Outlier(s)(2), good for n>=25	Rosner's test, alpha=0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Al-01/03,01/31,01/07,01/12; Mn-01/03; Se-03/14	NA	NA
Outlier(s)(2), good for n<=25	Dixon's (extreme value) test, alpha=0.01	accept outlier hypothosis	NO3-01/04	too few to calc stat	none	none	DO-02/07; SO4-08/15; Al-01/03; Mn-07/18	Al-01/03	DO-04/18; Mn-05/02	none	Mn-09/21	Mn-09/06; Zn-10/04	NA	Al-01/02	none
Reliability Check: TDS(meas)/ Cond(field)	55%<(TDS/Cond)<75%	#Pass	2	0	11	3	3	2	4	3	6	6	NA	3	5
		#<55	2	0	2	9	9	7	4	5	3	4	NA	6	6
		#>75	3	1	4(3)	4	4	5	5(5)	4	3	1	NA	3	1
		#NA	0	0	0	1	2	1	1	0	0	0	NA	0	0

notes:
(1) sample count for 2006
(2) log transform used for log-normal data
(3) 6/6/06 sample=515%; conductivity meter noted in field notes as "drifting replace"
(4) MM/DD format
(5) 7/18/06 sample=338%; conductivity meter not noted as calibrated or checked on this date
(6) passes normality test for log-transformed data

Detection
Some major parameters and the majority of trace parameters were not detected in water analyses at specified detection limits. Aluminum, manganese, nickel, and zinc were detected in almost all samples. Other metals were either detected in a minority of samples or none at all. Sulfate was not detected in all cases, suggesting some water may have a measurable to dominate bicarbonate component.

The three categories considered were:

1. Non-detection
2. Detection but less than NPDES monthly average permit limitation
3. Exceedence of NPDES monthly average permit limitation

Values above the average monthly average criterion have no regulatory significance, but serve as an easy reference for constituent concentrations. Criterion 3 was only exceeded at 001EFF on January 3, 2006 for copper, lead, and aluminum; and sulfate in December samples.

Ultra low mercury detection limits, provided through the use of method 1631, have provided some information on true background mercury concentrations; however, with the exception of Slate Creek, the majority of samples remain below the detection limit. At these very low detection levels, only Slate Creek stations show detectable background mercury in all samples.

Normality
Use of parametric statistics is dependent on the data meeting assumptions associated with the statistics; e.g., arithmetic mean assumes random samples taken from a normal distribution. Tests were conducted on all parameters by station for normality when more than three values exceeded the laboratory practical quantitation limit (PQL). As shown in Table 1, such parameters as conductivity, dissolved oxygen, nitrate, total dissolved solids, hardness, pH, and sulfate commonly are not normally distributed. Of the 2006 metal parameters detected in excess of the PQL on more than three occasions in 2006; iron, manganese, aluminum, and mercury were not normally distributed at all stations.

This is a typical situation for hydrologic data. A logarithmic transform commonly results in a normal distribution, which is noted – where applicable – in Table 1. Summary statistics are calculated for all parameters and these are presented in Tables 2 through 13 for each discharge and receiving water station; however, the results should be interpreted in light of those parameters that fail the underlying assumption of normality as shown in Table 1.

Outlier(s)
For those stations and parameters where normality is demonstrated, an outlier analysis was performed to identify samples that were unexpectedly large or small; i.e., statistical

outliers. This is not to say the values are not true, but that these values would not be expected if they were random samples collected from a normally distributed population. This helps identify possible "outlier" values that may warrant additional scrutiny and possible classification as estimated or rejected.

These values are also presented in Table 1. A total of 12 individual parameter values were classified as statistical outliers. Of these, only one individual sample parameter – DO at Sh-112 on April 18, 2006 – was flagged as rejected. DO on that date and at that station was less than half the value at Sh-103, located a short distance downstream, and well below any reasonable value at the observed temperature and pressure.

During preparation of 2006 data time series plots, five other samples were identified as outliers. These five sample parameters were flagged as rejected outliers based on review of field data sheets and the reasons given, as listed on the following table:

Outliers flagged as rejected and not included in data analysis.

Station	Date	Parameter	Comments
Sh-105	June 6, 2006	pH	Field data sheet reports meter drifting
Sh-105	August 15, 2006	DO	Unreasonably high value (14.82 mg/L) – above calculated saturation at temp and pressure. An older meter was used.
Sh-105	April 18, 2006	TDS	Ratio of TDS/Cond twice all others. Major ion chemistry consistent with other samples and does not support high TDS.
Sh-112	April 18, 2006	DO	Less than ½ value at Sh-103 (downstream) and below calculated realistic value.
Sh-112	May 16, 2006	pH	Low. No corresponding value at Sh-103 downstream. Not a monthly sample.
SLB	September 21, 2006	TDS	Relative to major chemistry on other dates, this value is exceptionally low.

Internal Consistency – TDS/Conductivity
An internal consistency check was completed on the ratio of TDS (by oven) to measured field conductivity. This ration is generally within the range of 55 to 75 percent in most unpolluted water (Table 1).

This general range contained 35 percent of the 2006 data. Sixty five percent were outside this range – both above and below. A review of field data sheets revealed several potential issues with the field conductivity meters used during 2006, which could account for the variability in the TDS to conductivity ratio. Therefore, conductivity is considered estimated for 2006.

Improvements in meters used, calibration practices, and field measurement practices have been made, which proved successful in reducing the range of the TDS to conductivity in December 2006.

General Major Chemistry

Area waters generally:

- Contain low levels of sulfate (<10ppm)
- Are generally soft (in most cases <50ppm hardness)
- Are at or near oxygen saturation
- Contain low total dissolved solids (<70ppm)
- Have mildly basic pH

Summary information is presented in Tables 2 through 13. These tables also provide the Mann Kendall statistic, which, with a limited data set of one year, can provide guidance to help determine if a particular trend is inferred. Mann Kendall is nonparametric, and missing data and non-detects are allowed. The following discussion focuses on any trends that were inferred from the Mann Kendall test.

Watersheds

Upstream/downstream receiving station pairs are present on Ophir, Sherman, Johnson and Slate Creeks. A comparison of the chemistry between these station pairs is discussed below.

Sh-112 (upstream) to Sh103 (downstream) Ophir Creek

Major Chemistry
Water monitoring on Ophir Creek was intended to identify potential impacts from mine water treatment operations. The flow at Station Sh-103 is made up of treated water

discharged from Outfall 001 and natural upstream runoff and seepage. Natural flow occurs at varying rates throughout the year upstream of Sh-103, depending on the time of year, which contributes to seasonal fluctuations, and short lived trends as presented in the following figures (Figures 1-7). Analytical results for Station Sh-103 show a seasonal trend for conductivity, TDS, nitrate, and sulphate with an increase in spring, followed by a summer decline, and increase again in early winter.

Decreasing trends are shown for DO and pH. Latter results for both of these field tests appear to be less scattered which may indicate improved field calibration techniques as the year progressed.

The Ophir Creek background station (Sh-112), shows a decreasing trend in dissolved aluminum. A steep decline was observed in the first half of the year, followed by values at or near the detection limit.

At the background Station Sh-112, seasonal trends are also evident in conductance and pH, and they appear negatively correlated with sulfate, TDS, and hardness showing very similar seasonal trends of higher winter values and lower summer values.

Trace Chemistry – Ophir Creek

Of the metals analyzed, manganese, nickel, and zinc are the only metals meaningfully measured above detection limits. Manganese is slightly elevated at the 103 (downstream) station, but well within water quality criteria. Mercury and nickel are in the same range, from the upstream to downstream monitoring location.

Aside from higher values obtained during the first sampling event of the year, aluminum is now being controlled with active treatment to below detectable limits.

An apparent jump in zinc values is suggested at both the upstream (112) and downstream (103) stations, on the following figure, however the non-detects are plotted at ½ their value which makes the values that are just above detection limit of 5 ppb, seem elevated.

Sh-109 (upstream) to Sh-105 (downstream) Sherman Creek

Major Chemistry

Water monitoring on Sherman Creek was intended to help identify any potential impacts from mine construction and water treatment activities. Water quality upstream to downstream on Sherman Creek was very similar during 2006 (Tables 6 & 7, Figures 8-14). pH and temperature are very consistent upstream to down, and follow an annual cycle of

summer increase and winter decrease. Conductivity is inverse to this trend, showing highest dissolved solids during winter base flows.

Sherman Creek shows a decreasing trend in aluminum over 2006 (Tables 6 & 7). A seasonal trend in DO, TDS, hardness, sulphate, and nitrate was observed both upstream and downstream and the trend appears to be inversely related to temperature and flows.

Trace Chemistry – Sherman Creek
Iron was measured slightly above the detection limit in three samples at the downstream station (Sh-105). No trend is apparent. Aluminum is elevated from upstream to downstream, but well below freshwater aquatic standards. A significant decreasing time trend was identified due to increased treatment efficiencies (Table 6). Zinc shows increased concentrations at all stations, relative to the ½ detect value plotted, due to increased fall stormwater runoff. Zinc concentrations decrease with lower flows during the winter months.

No other metals are elevated from upstream to downstream or with significant trends.

JS2 (upstream) to JS5 (downstream) Johnson Creek

Major Chemistry

Water monitoring on Johnson Creek was intended to identify potential impacts from Mill facility construction. Water quality from upstream to downstream on Johnson Creek shows consistent seasonal trends of temperature, TDS, nitrate, pH, and sulfate. Some elevation of all these parameters, excluding temperature, is seen from upstream to downstream (Figures 15-21). The general increase of roughly 100% in TDS, sulfate; and conductivity and hardness; plus an associated increase in pH suggests addition of carbonate alkalinity from shallow groundwater sources. Sulfate is below 9 ppm, indicating it is likely a minor anion and the water is probably bicarbonate dominate.

Minor fluctuations of pH and DO measurements were noted at both upstream and downstream stations (Tables 8&9). This may indicate subtle drifts in field calibration.

Trace Chemistry – Johnson Creek
Downstream (JS5) dissolved aluminum and manganese plot above the range observed upstream (JS2), but no significant trends were identified (Tables 7&8). Given the increase in TDS – likely associated with bedrock and alluvial fill groundwater contributions, these increases are reasonable.

The absence of other dissolved metals is typical of results obtained in all other project areas watersheds.

MLA (upstream), SLB (above west fork confluence), SLC (downstream) Slate Creek

Major Chemistry

Water monitoring on Slate Creek in 2006 was intended to identify potential impacts from Tailings Storage Facility (TSF) construction. Figures 22 through 28 show the analytical results throughout the year.

Dissolved oxygen, pH, conductivity, temperature, turbidity, nitrate, sulfate, hardness, and TDS follow the same seasonal trends and have the same approximate magnitude throughout the monitored reach of Slate Creek. TSS is generally at or below detection limits with three values just above detectable values at all stations.

At station SLC, downstream of SLB, no significant trends were identified.

Trace Chemistry – Slate Creek

Aluminum and mercury both show seasonal trends. Aluminum shows a decreasing trend at the upstream background station (MLA), but no significant trends were identified at the other stations. Mercury was detected at all stations on all dates and at very low levels. All mercury values are within the same very tight range, which was calculated as an upward trend at the background upstream station MLA (Tables 11 thru 13).

All three sampling stations on Slate Creek show a fall high-flow seasonal spike in Manganese.

Discharges

Outfall 001Effluent

Sampling at the Comet water treatment plant (WTP) discharge was weekly, resulting in four times the data as compare to most background stations. This larger group of samples results in reduced variances and greater potential for identification of small trends (Figures 29-36). Variances in effluent data from Outfall 001 may reflect subtle changes to treatment techniques and levels and areas of activities in the underground mine.

Dissolved oxygen showed a significant downward trend in the, but was always well within a healthy concentration for freshwater life. Temperature followed a seasonal cyclic trend due to the resonance times in the water treatment plant holding ponds.

Major cations (represented by hardness) and anions (represented by sulfate) plus TDS varied throughout the year. Only hardness is calculated as an increasing trend, which is not visually distinct from sulfate or TDS.

Nitrate and ammonia both show increasing concentrations late in the year due to lower seasonal flow being discharged from the underground mine. Values remained well below permit limitations throughout the year.

Concentrations of lead, mercury, and nickel vary in concentration but are essentially at or near the detection limit well below compliance levels.

Aluminum and iron show significant downward trends owing to some slightly higher values early in the year. On the whole, the metals are at or only slightly above detection limits in the discharge water.

Outfalls 002 and 003

Outfall 002 is the tailing storage facility, which has not yet been constructed and therefore, no discharge occurred during 2006.

Outfall 003 is the Comet Camp sewage treatment plant marine outfall. This facility underwent an expansion during 2006 to help accommodate an expanding construction workforce. All four NPDES permit parameters (pH, BOD, Fecal coliform, and TSS) were within or well under permit compliance limits.

Table 2: Station Sn-103 2006 Water Quality Data Summary Statistics

Parameter	Unit	Max	Min	Range (Max-Min)	Number of Samples	Number of Nondetects	Percent Nondetects	Arithmetic Mean	Standard deviation	Mann Kendall Statistic indicating increasing or decreasing trend	MK statistic significant at alpha=0.05
Ag	ug/l	0.0000	0.0000	0.0000	17	17	100	0.0500	0.0000	0	
Al	ug/l	27.0000	1.0000	26.0000	17	9	53	2.4412	9.0702	-6	N
As	ug/l	0.0000	0.0000	0.0000	17	17	100	1.2500	0.0000	0	
Cd	ug/l	0.0000	0.0000	0.0000	17	17	100	0.0500	0.0000	0	
Cl	mg/l	15.0000	1.0000	14.0000	17	1	6	6.2647	4.2876	15	N
Cr	ug/l	0.0000	0.0000	0.0000	17	17	100	1.2500	0.0000	0	
Cu	ug/l	0.0000	0.0000	0.0000	17	16	94	0.5294	0.0000	0	
Fe	mg/l	0.0000	0.0000	0.0000	17	17	100	0.0250	0.0000	0	
Hg	ug/l	0.0020	0.0003	0.0017	14	10	71	0.0007	0.0008	0	
Mn	mg/l	43.0000	3.0000	40.0000	17	1	6	14.8530	10.8780	-4	N
NH4	mg/l	1.0000	0.1000	0.9000	17	4	24	0.3059	0.2794	26	N
Ni	ug/l	8.0000	1.0000	7.0000	17	6	35	2.8235	2.4680	-11	N
NO3	mg/l	5.2200	0.1500	5.0700	17	0	0	1.6076	1.3258	51	Y
Pb	ug/l	0.0000	0.0000	0.0000	17	17	100	0.0800	0.0000	0	
SO4	mg/l	203.0000	13.2000	189.8000	17	0	0	95.2180	60.6020	-12	N
Zn	ug/l	9.5000	2.9000	6.6000	17	13	76	2.5441	2.7695	6	Y
Se	ug/l	0.0000	0.0000	0.0000	17	17	100	0.5000	0.0000	0	
TDS	mg/l	400.0000	60.0000	340.0000	17	0	0	230.0000	121.6000	-18	N
Meas_Hardness	mg/l	268.0000	22.0000	246.0000	75	0	0	140.3500	82.4870	-221	N
Dissolved_Oxygen	mg/l	13.7400	9.8800	3.8600	17	0	0	11.2470	1.0943	-52	Y
pH		7.9000	6.9500	0.9500	17	0	0	7.5153	0.2280	-60	Y

Note: non-detects are treated as 0.0

Table 3: Station Sh-112 2006 Water Quality Data Summary Statistics

Parameter	Unit	Max	Min	Range (Max-Min)	Number of Samples	Number of Nondetects	Percent Nondetects	Arithmetic Mean	Standard deviation	Mann Kendall Statistic indicating increasing or decreasing trend	MK Statistic significant at alpha=0.05
Ag	ug/l	0.0000	0.0000	0.0000	14	14	100	0.0500	0.0000	0	
Al	ug/l	29.0000	1.0000	28.0000	14	4	29	5.0714	8.5693	-34	Y
As	ug/l	0.0000	0.0000	0.0000	14	14	100	1.2500	0.0000	0	
Cd	ug/l	0.0000	0.0000	0.0000	14	14	100	0.0500	0.0000	0	
Cl	mg/l	4.0000	2.0000	2.0000	14	8	57	1.6429	0.7528	3	N
Cr	ug/l	0.0000	0.0000	0.0000	14	14	100	1.2500	0.0000	0	
Cu	ug/l	2.0000	1.0000	1.0000	14	9	64	0.7500	0.4472	0	
Fe	mg/l	0.0000	0.0000	0.0000	14	14	100	0.0250	0.0000	0	
Hg	ug/l	0.0021	0.0007	0.0014	10	4	40	0.0012	0.0005	6	N
Mn	mg/l	40.0000	1.0000	39.0000	14	7	50	3.9643	14.4320	-9	N
NH4	mg/l	0.0000	0.0000	0.0000	14	13	93	0.0536	0.0000	0	
Ni	ug/l	7.0000	2.0000	5.0000	14	9	64	1.8214	1.9235	4	N
NO3	mg/l	3.0500	0.0500	3.0000	13	0	0	0.7308	0.9259	11	N
Pb	ug/l	0.0000	0.0000	0.0000	14	14	100	0.0800	0.0000	0	
SO4	mg/l	169.0000	4.6000	164.4000	14	0	0	69.4290	70.3620	-9	N
Zn	ug/l	8.7000	3.9000	4.8000	14	9	64	3.2250	2.0167	0	
Se	ug/l	0.0000	0.0000	0.0000	14	13	93	0.5357	0.0000	0	
TDS	mg/l	370.0000	30.0000	340.0000	14	0	0	157.1400	131.3500	-20	N
Meas_Hardness	mg/l	210.0000	20.0000	190.0000	14	1	7	86.7860	79.7270	-5	N
Dissolved_Oxygen	mg/l	13.3100	9.3200	3.9900	13	0	0	10.4260	1.0776	8	N
pH		7.5300	6.9000	0.6300	13	0	0	7.2223	0.2054	-19	N

Note: non-detects are treated as 0.0

Table 4: Station Sh-111 2006 Water Quality Data Summary Statistics

Parameter	Unit	Max	Min	Range (Max-Min)	Number of Samples	Number of Nondetects	Percent Nondetects	Arithmetic Mean	Standard deviation	Mann Kendall Statistic indicating increasing or decreasing trend	MK statistic significant at alpha=0.05
Ag	ug/l	0.0000	0.0000	0.0000	15	15	100	0.0500	0.0000	0	
Al	ug/l	10.0000	1.0000	9.0000	15	10	67	1.4000	3.8341	-4	Y
As	ug/l	0.0000	0.0000	0.0000	15	15	100	1.2500	0.0000	0	
Cd	ug/l	0.0000	0.0000	0.0000	15	15	100	0.0500	0.0000	0	
Cl	mg/l	0.0000	0.0000	0.0000	15	15	100	0.5000	0.0000	0	
Cr	ug/l	0.0000	0.0000	0.0000	15	15	100	1.2500	0.0000	0	
Cu	ug/l	0.0000	0.0000	0.0000	15	15	100	0.5000	0.0000	0	
Fe	mg/l	0.0000	0.0000	0.0000	15	15	100	0.0250	0.0000	0	
Hg	ug/l	0.0017	0.0017	0.0000	13	11	85	0.0006	0.0000	0	
Mn	mg/l	0.0000	0.0000	0.0000	15	15	100	0.5000	0.0000	0	
NH4	mg/l	0.0000	0.0000	0.0000	15	14	93	0.0533	0.0000	0	
Ni	ug/l	0.0000	0.0000	0.0000	15	14	93	0.5333	0.0000	0	
NO3	mg/l	0.4100	0.0600	0.3500	15	4	27	0.1707	0.1140	-11	N
Pb	ug/l	0.0000	0.0000	0.0000	15	15	100	0.0800	0.0000	0	
SO4	mg/l	5.4000	1.7000	3.7000	15	0	0	3.1667	1.3973	-42	Y
Zn	ug/l	8.9000	5.5000	3.4000	15	11	73	2.8033	1.7783	-2	N
Se	ug/l	0.0000	0.0000	0.0000	15	15	100	0.5000	0.0000	0	
TDS	mg/l	70.0000	20.0000	50.0000	15	1	7	37.6670	15.6890	-14	N
Meas_Hardness	mg/l	40.0000	20.0000	20.0000	15	1	7	25.0000	7.4495	-37	Y
Dissolved_Oxygen	mg/l	13.4400	9.9400	3.5000	15	0	0	11.8440	0.9889	-14	N
pH		7.7900	6.7500	1.0400	15	0	0	7.5400	0.2979	19	N

Note: non-detects are treated as 0.0

Table 5: Station Sh-105 2006 Water Quality Data Summary Statistics

Parameter	Unit	Max	Min	Range (Max-Min)	Number of Samples	Number of Nondetects	Percent Nondetects	Arithmetic Mean	Standard deviation	Mann Kendall Statistic indicating increasing or decreasing trend	MK statistic significant at alpha-0.05
Ag	ug/l	0.0000	0.0000	0.0000	17	17	100	0.0500	0.0000	0	
Al	ug/l	46.0000	5.0000	41.0000	17	1	6	15.3820	12.2680	-43	Y
As	ug/l	0.0000	0.0000	0.0000	17	17	100	1.2500	0.0000	0	
Cd	ug/l	0.0000	0.0000	0.0000	17	17	100	0.0500	0.0000	0	
Cl	mg/l	8.0000	1.0000	7.0000	17	5	29	1.6765	1.9462	0	
Cr	ug/l	0.0000	0.0000	0.0000	17	17	100	1.2500	0.0000	0	
Cu	ug/l	1.0000	1.0000	0.0000	17	14	82	0.5882	0.0000	0	
Fe	mg/l	0.0700	0.0600	0.0100	17	14	82	0.0324	0.0058	0	
Hg	ug/l	0.0021	0.0007	0.0014	14	6	43	0.0010	0.0005	6	N
Mn	mg/l	6.0000	1.0000	5.0000	17	12	71	1.0588	2.0736	0	
NH4	mg/l	0.2000	0.1000	0.1000	17	15	88	0.0618	0.0707	-1	N
Ni	ug/l	1.0000	1.0000	0.0000	17	12	71	0.6471	0.0000	0	
NO3	mg/l	0.7000	0.0600	0.6400	17	1	6	0.2474	0.1543	57	Y
Pb	ug/l	0.0000	0.0000	0.0000	17	17	100	0.0800	0.0000	0	
SO4	mg/l	22.9000	3.6000	19.3000	17	0	0	10.8180	4.8174	8	N
Zn	ug/l	12.8000	4.5000	8.3000	17	12	71	3.1706	3.4967	-4	N
Se	ug/l	0.0000	0.0000	0.0000	17	16	94	0.5294	0.0000	0	
TDS	mg/l	110.0000	30.0000	80.0000	16	0	0	63.1250	25.4870	-14	N
Meas_Hardness	mg/l	70.0000	30.0000	40.0000	17	0	0	42.9410	12.1270	3	N
Dissolved_Oxygen	mg/l	13.9100	10.5900	3.3200	17	0	0	12.1630	0.9979	-50	Y
pH		7.7700	7.0700	0.7000	17	0	0	7.5200	0.2002	29	N

Note: non-detects are treated as 0.0

Table 6: Station Sh-109 Water Quality Data Summary Statistics

Parameter	Unit	Max	Min	Range (Max-Min)	Number of Samples	Number of Nondetects	Percent Nondetects	Arithmetic Mean	Standard deviation	Mann Kendall Statistic indicating increasing or decreasing trend	MK statistic significant at alpha=0.05
Ag	ug/l	0.0000	0.0000	0.0000	18	18	100	0.0500	0.0000	0	
Al	ug/l	17.0000	2.0000	15.0000	18	4	22	4.1667	3.7658	-29	N
As	ug/l	0.0000	0.0000	0.0000	18	18	100	1.2500	0.0000	0	
Cd	ug/l	0.0000	0.0000	0.0000	18	18	100	0.0500	0.0000	0	
Cl	mg/l	0.0000	0.0000	0.0000	18	17	94	0.5833	0.0000	0	
Cr	ug/l	0.0000	0.0000	0.0000	18	18	100	1.2500	0.0000	0	
Cu	ug/l	0.0000	0.0000	0.0000	18	17	94	0.5278	0.0000	0	
Fe	mg/l	0.0000	0.0000	0.0000	18	18	100	0.0250	0.0000	0	
Hg	ug/l	0.0018	0.0003	0.0015	14	8	57	0.0007	0.0006	9	N
Mn	mg/l	2.0000	1.0000	1.0000	18	14	78	0.7222	0.5774	4	N
NH4	mg/l	0.0000	0.0000	0.0000	18	17	94	0.0583	0.0000	0	
Ni	ug/l	1.0000	1.0000	0.0000	18	16	89	0.5556	0.0000	0	
NO3	mg/l	0.2200	0.0800	0.1400	18	8	44	0.0967	0.0515	-11	N
Pb	ug/l	0.0000	0.0000	0.0000	18	18	100	0.0800	0.0000	0	
SO4	mg/l	19.7000	3.7000	16.0000	18	0	0	7.0444	3.5842	-7	N
Zn	ug/l	9.5000	2.9000	6.6000	18	12	67	2.8167	2.3501	-3	N
Se	ug/l	0.0000	0.0000	0.0000	18	18	100	0.5000	0.0000	0	
TDS	mg/l	120.0000	40.0000	80.0000	18	0	0	61.1110	20.5480	-6	N
Meas_Hardness	mg/l	60.0000	30.0000	30.0000	18	1	6	40.8330	7.7174	9	N
Dissolved_Oxygen	mg/l	14.7000	10.8600	3.8400	17	0	0	11.8720	0.9121	-54	Y
pH		8.0000	6.8600	1.1400	17	0	0	7.5382	0.3663	36	N

Note: non-detects are treated as 0.0

Table 7: Station JS2 2006 Water Quality Data Summary Statistics

Parameter	Unit	Max	Min	Range (Max-Min)	Number of Samples	Number of Nondetects	Percent Nondetects	Arithmetic Mean	Standard deviation	Mann Kendall Statistic indicating increasing or decreasing trend	MK statistic significant at alpha=0.05
Ag	ug/l	0.0000	0.0000	0.0000	12	12	100	0.0500	0.0000	0	
Al	ug/l	13.0000	1.0000	12.0000	12	6	50	2.0000	4.7223	-8	N
As	ug/l	0.0000	0.0000	0.0000	12	12	100	1.2500	0.0000	0	
Cd	ug/l	0.0000	0.0000	0.0000	12	12	100	0.0500	0.0000	0	
Cl	mg/l	0.0000	0.0000	0.0000	12	12	100	0.5000	0.0000	0	
Cr	ug/l	0.0000	0.0000	0.0000	12	12	100	1.2500	0.0000	0	
Cu	ug/l	0.0000	0.0000	0.0000	12	12	100	0.5000	0.0000	0	
Fe	mg/l	0.0000	0.0000	0.0000	12	12	100	0.0250	0.0000	0	
Hg	ug/l	0.0000	0.0000	0.0000	11	10	91	0.0006	0.0000	0	
Mn	mg/l	2.0000	1.0000	1.0000	12	7	58	1.0417	0.4472	-2	N
NH4	mg/l	0.0000	0.0000	0.0000	12	11	92	0.0542	0.0000	0	
Ni	ug/l	0.0000	0.0000	0.0000	12	12	100	0.5000	0.0000	0	
NO3	mg/l	0.6000	0.0500	0.5500	12	0	0	0.1617	0.1456	-17	N
Pb	ug/l	0.0000	0.0000	0.0000	12	12	100	0.0800	0.0000	0	
SO4	mg/l	2.0000	1.1000	0.9000	12	0	0	1.4667	0.3393	-20	N
Zn	ug/l	9.4000	3.2000	6.2000	12	9	75	2.5625	3.1193	1	N
Se	ug/l	0.0000	0.0000	0.0000	12	12	100	0.5000	0.0000	0	
TDS	mg/l	30.0000	10.0000	20.0000	12	2	17	19.1670	9.1894	3	N
Meas_Hardness	mg/l	20.0000	10.0000	10.0000	12	0	0	17.5000	4.5227	-3	N
Dissolved_Oxygen	mg/l	13.3100	10.7900	2.5200	12	0	0	11.6830	0.6792	-22	N
pH		7.5300	6.7900	0.7400	12	0	0	7.1917	0.2066	35	Y

Note: non-detects are treated as 0.0

Table 8: Station JS5 2006 Water Quality Data Summary Statistics

Parameter	Unit	Max	Min	Range (Max-Min)	Number of Samples	Number of Nondetects	Percent Nondetects	Arithmetic Mean	Standard deviation	Mann Kendall Statistic indicating increasing or decreasing trend	MK statistic significant at alpha=0.05
Ag	ug/l	0.0000	0.0000	0.0000	12	12	100	0.0500	0.0000	0	
Al	ug/l	16.0000	2.0000	14.0000	12	2	17	4.9167	4.5656	-10	N
As	ug/l	0.0000	0.0000	0.0000	12	12	100	1.2500	0.0000	0	
Cd	ug/l	0.0000	0.0000	0.0000	12	12	100	0.0500	0.0000	0	
Cl	mg/l	0.0000	0.0000	0.0000	12	12	100	0.5000	0.0000	0	
Cr	ug/l	0.0000	0.0000	0.0000	12	12	100	1.2500	0.0000	0	
Cu	ug/l	0.0000	0.0000	0.0000	12	12	100	0.5000	0.0000	0	
Fe	mg/l	0.0000	0.0000	0.0000	12	12	100	0.0250	0.0000	0	
Hg	ug/l	0.0017	0.0004	0.0014	11	7	64	0.0007	0.0007	2	N
Mn	mg/l	16.0000	2.0000	14.0000	12	0	0	5.8333	4.6482	-12	N
NH4	mg/l	0.1000	0.1000	0.0000	12	10	83	0.0583	0.0000	0	
Ni	ug/l	0.0000	0.0000	0.0000	12	12	100	0.5000	0.0000	0	
NO3	mg/l	0.7700	0.1300	0.6400	12	0	0	0.2975	0.1765	8	N
Pb	ug/l	0.0000	0.0000	0.0000	12	12	100	0.0800	0.0000	0	
SO4	mg/l	8.0000	2.2000	5.8000	12	0	0	4.4333	1.9061	-8	N
Zn	ug/l	9.8000	4.4000	5.4000	12	9	75	2.6292	2.7610	1	N
Se	ug/l	0.0000	0.0000	0.0000	12	12	100	0.5000	0.0000	0	
TDS	mg/l	70.0000	20.0000	50.0000	12	0	0	43.3330	18.2570	-10	N
Meas_Hardness	mg/l	50.0000	20.0000	30.0000	12	0	0	35.7500	12.4470	-9	N
Dissolved_Oxygen	mg/l	13.5700	11.2600	2.3100	12	0	0	12.0960	0.8097	-38	Y
pH		7.7600	7.1900	0.5700	12	0	0	7.5667	0.1774	33	Y

Note: non-detects are treated as 0.0

Table 9: Station MLA 2006 Water Quality Data Summary Statistics

Parameter	Unit	Max	Min	Range (Max-Min)	Number of Samples	Number of Nondetects	Percent Nondetects	Arithmetic Mean	Standard deviation	Mann Kendall Statistic indicating increasing or decreasing trend	MK statistic significant at alpha=0.05
Ag	ug/l	0.0000	0.0000	0.0000	7	7	100	0.0500	0.0000	0	
Al	ug/l	99.0000	30.0000	69.0000	7	0	0	59.1430	25.3470	-17	Y
As	ug/l	0.0000	0.0000	0.0000	7	7	100	1.2500	0.0000	0	
Cd	ug/l	0.0000	0.0000	0.0000	7	7	100	0.0500	0.0000	0	
Cl	mg/l	0.0000	0.0000	0.0000	7	7	100	0.5000	0.0000	0	
Cr	ug/l	0.0000	0.0000	0.0000	7	7	100	1.2500	0.0000	0	
Cu	ug/l	0.0000	0.0000	0.0000	7	7	100	0.5000	0.0000	0	
Fe	mg/l	0.1700	0.0800	0.0900	7	0	0	0.1143	0.0310	-7	N
Hg	ug/l	0.0032	0.0007	0.0025	7	0	0	0.0022	0.0010	18	Y
Mn	mg/l	12.0000	2.0000	10.0000	7	0	0	7.8571	4.4508	-9	N
NH4	mg/l	0.0000	0.0000	0.0000	7	7	100	0.0500	0.0000	0	
Ni	ug/l	2.0000	1.0000	1.0000	7	5	71	0.7857	0.7071	-1	N
NO3	mg/l	0.1000	0.0900	0.0100	6	4	67	0.0483	0.0071	1	N
Pb	ug/l	0.0000	0.0000	0.0000	7	7	100	0.0800	0.0000	0	
SO4	mg/l	1.9000	1.1000	0.8000	7	0	0	1.6286	0.2812	1	N
Zn	ug/l	0.0000	0.0000	0.0000	7	7	100	1.2500	0.0000	0	
Se	ug/l	0.0000	0.0000	0.0000	7	7	100	0.5000	0.0000	0	
TDS	mg/l	90.0000	50.0000	40.0000	7	0	0	67.1430	14.9600	11	N
Meas_Hardness	mg/l	60.0000	20.0000	40.0000	7	0	0	44.2860	12.7240	5	N
Dissolved_Oxygen	mg/l	12.9100	9.3200	3.5900	6	0	0	11.6250	1.6262	-3	N
pH		7.9800	6.7700	1.2100	7	0	0	7.3300	0.3605	-7	N

Note: non-detects are treated as 0.0

Table 10: Station SLA 2006 Water Quality Data Summary Statistics

Parameter	Unit	Max	Min	Range (Max-Min)	Number of Samples	Number of Nondetects	Percent Nondetects	Arithmetic Mean	Standard deviation	Mann Kendall Statistic indicating increasing or decreasing trend	MK statistic significant at alpha=0.05
Ag	ug/l	0.0000	0.0000	0.0000	12	12	100	0.0500	0.0000	0	
Al	ug/l	96.0000	25.0000	71.0000	12	0	0	56.6670	19.7910	-29	Y
As	ug/l	0.0000	0.0000	0.0000	12	12	100	1.2500	0.0000	0	
Cd	ug/l	0.2000	0.1000	0.1000	12	10	83	0.0667	0.0707	-1	N
Cl	mg/l	1.0000	1.0000	0.0000	12	9	75	0.6250	0.0000	0	
Cr	ug/l	0.0000	0.0000	0.0000	12	12	100	1.2500	0.0000	0	
Cu	ug/l	1.0000	1.0000	0.0000	12	10	83	0.5833	0.0000	0	
Fe	mg/l	0.3100	0.0600	0.2500	12	0	0	0.1792	0.0941	29	Y
Hg	ug/l	0.0036	0.0024	0.0012	2	0	0	0.0030	0.0008	-1	N
Mn	mg/l	171.0000	4.0000	167.0000	12	0	0	51.0830	61.5750	42	Y
NH4	mg/l	0.3000	0.1000	0.2000	12	10	83	0.0750	0.1414	-1	N
Ni	ug/l	2.0000	1.0000	1.0000	12	7	58	0.9583	0.5477	2	N
NO3	mg/l	0.5100	0.0700	0.4400	12	9	75	0.0729	0.2540	2	N
Pb	ug/l	0.0000	0.0000	0.0000	12	12	100	0.0800	0.0000	0	
SO4	mg/l	6.6000	1.1000	5.5000	12	1	8	2.7875	2.0131	43	Y
Zn	ug/l	19.2000	4.5000	14.7000	12	8	67	4.0917	6.5357	4	N
Se	ug/l	0.0000	0.0000	0.0000	12	12	100	0.5000	0.0000	0	
TDS	mg/l	80.0000	40.0000	40.0000	12	0	0	58.3330	14.0350	18	N
Meas_Hardness	mg/l	50.0000	20.0000	30.0000	12	0	0	38.3330	8.3485	29	Y
Dissolved_Oxygen	mg/l	13.2500	9.0400	4.2100	9	0	0	10.7980	1.6028	-14	N
pH		7.5600	7.0500	0.5100	12	0	0	7.2567	0.1652	31	Y

Note: non-detects are treated as 0.0

Table 11: Station SLB 2006 Water Quality Data Summary Statistics

Parameter	Unit	Max	Min	Range (Max-Min)	Number of Samples	Number of Nondetects	Percent Nondetects	Arithmetic Mean	Standard deviation	Mann Kendall Statistic indicating increasing or decreasing trend	MK statistic significant at alpha=0.05
Ag	ug/l	0.0000	0.0000	0.0000	12	12	100	0.0500	0.0000	0	
Al	ug/l	119.0000	23.0000	96.0000	12	0	0	57.4170	26.4830	-19	N
As	ug/l	0.0000	0.0000	0.0000	12	12	100	1.2500	0.0000	0	
Cd	ug/l	0.0000	0.0000	0.0000	12	11	92	0.0542	0.0000	0	
Cl	mg/l	1.0000	1.0000	0.0000	12	8	67	0.6667	0.0000	0	
Cr	ug/l	0.0000	0.0000	0.0000	12	12	100	1.2500	0.0000	0	
Cu	ug/l	2.0000	1.0000	1.0000	12	10	83	0.6667	0.7071	1	N
Fe	mg/l	0.4300	0.0500	0.3800	12	0	0	0.1750	0.1149	19/26	N/Y
Hg	ug/l	0.0036	0.0017	0.0019	12	0	0	0.0026	0.0006	9	N
Mn	mg/l	90.0000	1.0000	89.0000	12	3	25	19.7080	32.2890	34/41	Y
NH4	mg/l	0.0000	0.0000	0.0000	12	11	92	0.0625	0.0000	0	
Ni	ug/l	2.0000	1.0000	1.0000	12	5	42	0.8750	0.3780	4	N
NO3	mg/l	0.2100	0.0500	0.1600	12	7	58	0.0538	0.0658	7/8	N/Y
Pb	ug/l	0.0000	0.0000	0.0000	12	12	100	0.0800	0.0000	0	
SO4	mg/l	5.8000	1.0000	4.8000	12	1	8	2.5042	1.7367	35/41	Y
Zn	ug/l	11.6000	4.6000	7.0000	12	8	67	3.1417	3.1700	2	N
Se	ug/l	0.0000	0.0000	0.0000	12	12	100	0.5000	0.0000	0	
TDS	mg/l	80.0000	40.0000	40.0000	11	0	0	58.1820	12.5050	21/28	Y
Meas_Hardness	mg/l	50.0000	20.0000	30.0000	12	0	0	35.8330	7.9296	23	N
Dissolved_Oxygen	mg/l	13.8300	9.8000	4.0300	12	0	0	11.3880	1.3591	-16	N
pH		8.1200	7.0100	1.1100	12	0	0	7.5633	0.3813	18	N

Note: non-detects are treated as 0.0

Table 12: Station SLC 2006 Water Quality Data Summary Statistics

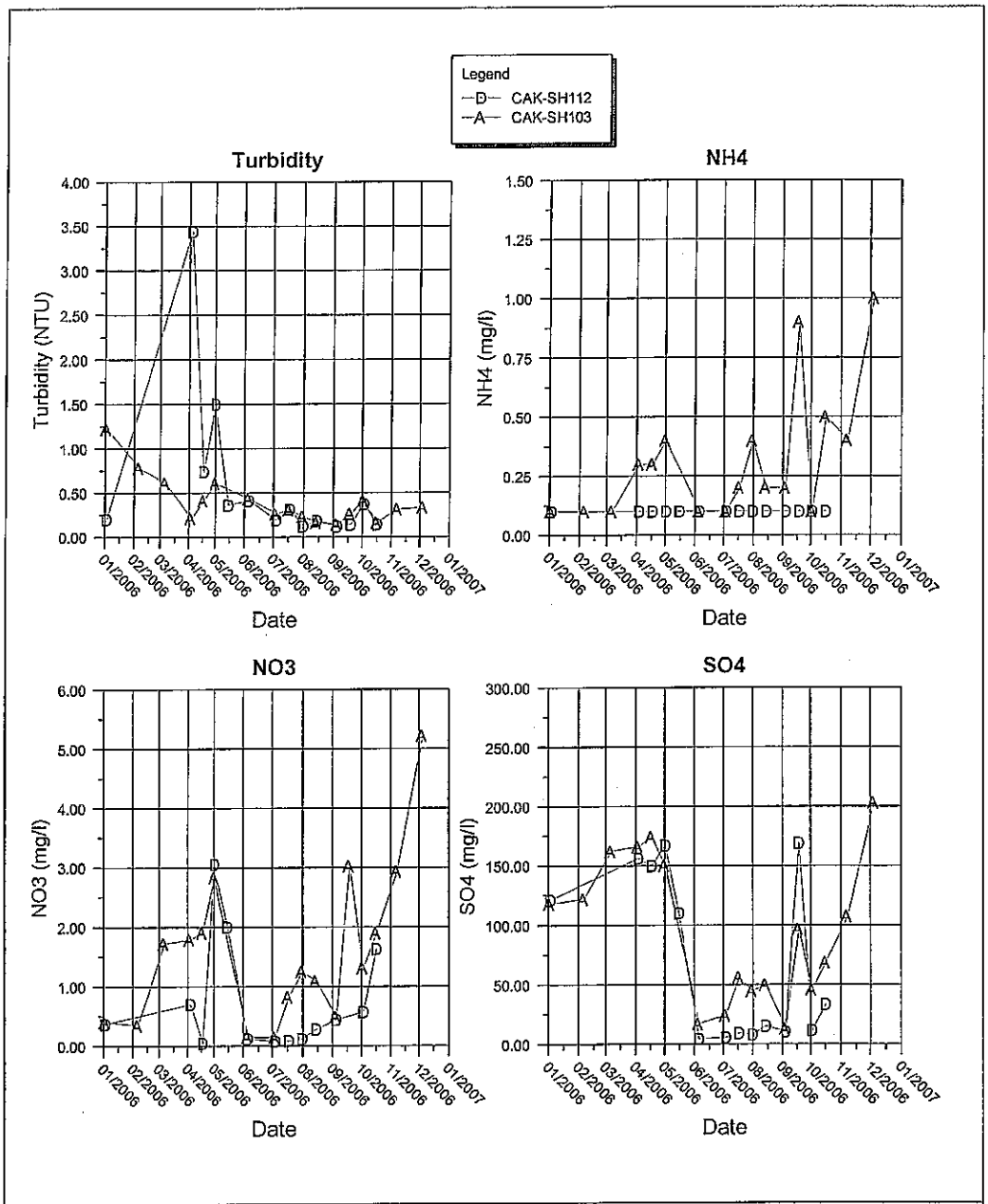
Parameter	Unit	Max	Min	Range (Max-Min)	Number of Samples	Number of Nondetects	Percent Nondetects	Arithmetic Mean	Standard deviation	Mann Kendall Statistic indicating increasing or decreasing trend	MK statistic significant at alpha=0.05
Ag	ug/l	0.0000	0.0000	0.0000	11	11	100	0.0500	0.0000	0	
Al	ug/l	133.0000	22.0000	111.0000	11	0	0	48.0910	31.7220	-5	N
As	ug/l	0.0000	0.0000	0.0000	11	11	100	1.2500	0.0000	0	
Cd	ug/l	0.0000	0.0000	0.0000	11	11	100	0.0500	0.0000	0	
Cl	mg/l	2.0000	1.0000	1.0000	11	1	9	1.0455	0.3162	-3	N
Cr	ug/l	0.0000	0.0000	0.0000	11	11	100	1.2500	0.0000	0	
Cu	ug/l	0.0000	0.0000	0.0000	11	11	100	0.5000	0.0000	0	
Fe	mg/l	0.2900	0.0500	0.2400	11	4	36	0.0955	0.0787	6	N
Hg	ug/l	0.0037	0.0015	0.0022	11	0	0	0.0025	0.0007	21	N
Mn	mg/l	38.0000	2.0000	36.0000	11	5	45	8.5000	16.6180	6	N
NH4	mg/l	0.0000	0.0000	0.0000	11	10	91	0.0636	0.0000	0	
Ni	ug/l	2.0000	1.0000	1.0000	11	7	64	0.8636	0.5774	-2	N
NO3	mg/l	0.1200	0.0600	0.0600	11	8	73	0.0409	0.0321	3	N
Pb	ug/l	0.0000	0.0000	0.0000	11	11	100	0.0800	0.0000	0	
SO4	mg/l	4.8000	1.5000	3.3000	11	1	9	2.8500	1.1795	1	N
Zn	ug/l	11.1000	3.2000	7.9000	11	8	73	2.6909	4.0919	1	N
Se	ug/l	0.0000	0.0000	0.0000	11	11	100	0.5000	0.0000	0	
TDS	mg/l	80.0000	30.0000	50.0000	11	0	0	56.3640	15.0150	-13	N
Meas_Hardness	mg/l	50.0000	20.0000	30.0000	11	0	0	39.0910	10.4450	-2	N
Dissolved_Oxygen	mg/l	13.3000	9.9500	3.3500	11	0	0	11.5850	1.1047	-15	N
pH		8.1100	7.0400	1.0700	11	0	0	7.5791	0.3623	11	N

Note: non-detects are treated as 0.0

Table 13: Station 001EFF 2006 Water Quality Data Summary Statistics

Parameter	Unit	Max	Min	Range (Max-Min)	Number of Samples	Number of Nondetects	Percent Nondetects	Arithmetic Mean	Standard deviation	Mann Kendall Statistic indicating increasing or decreasing trend	MK statistic significant at alpha=0.05
Ag	ug/l	0.3000	0.1000	0.2000	64	62	97	0.0541	0.1414	1	N
Al	ug/l	1810.0000	2.0000	1808.0000	64	16	25	37.1910	259.7000	-410	Y
As	ug/l	0.0000	0.0000	0.0000	64	64	100	1.2344	0.0000	0	
Cd	ug/l	0.3000	0.2000	0.1000	64	62	97	0.0902	0.0707	-1	N
Cl	mg/l	0.0000	0.0000	0.0000	0	0	NA	0.0000	0.0000	0	
Cr	ug/l	0.0000	0.0000	0.0000	64	64	100	1.2320	0.0000	0	
Cu	ug/l	16.0000	0.5780	15.4220	64	57	89	0.9543	5.6674	4	N
Fe	mg/l	0.6070	0.0362	0.5708	64	20	31	0.0983	0.1092	-214	Y
Hg	ug/l	0.0023	0.0003	0.0020	58	42	72	0.0007	0.0005	41	Y
Mn	mg/l	160.0000	6.0900	153.9100	64	0	0	36.8610	23.3660	90	N
NH4	mg/l	3.4000	0.1000	3.3000	60	5	8	0.9742	0.6315	478	Y
Ni	ug/l	19.0000	2.0000	17.0000	64	0	0	5.4536	3.3985	-511	Y
NO3	mg/l	7.1800	0.1300	7.0500	60	0	0	2.4108	1.4602	775	Y
Pb	ug/l	3.7600	0.1800	3.5800	64	60	94	0.1435	1.7671	-6	Y
SO4	mg/l	254.0000	77.0000	177.0000	60	0	0	158.4200	39.2250	232	N
Zn	ug/l	15.5000	1.4300	14.0700	64	17	27	4.6013	3.2124	136	N
Se	ug/l	2.0000	1.0000	1.0000	64	55	86	0.5859	0.3333	-6	N
TDS	mg/l	470.0000	260.0000	210.0000	60	0	0	373.3300	53.3830	-163	N
Meas_Hardness	mg/l	280.0000	185.0000	95.0000	60	0	0	228.3000	27.7230	-427	Y
Dissolved_Oxygen	mg/l	12.8200	9.7800	3.0400	59	0	0	10.9870	0.7158	-592	Y
pH		8.2000	7.9000	0.3000	35	0	0	8.0183	0.0891	-61	N

Note: non-detects are treated as 0.0



PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 1

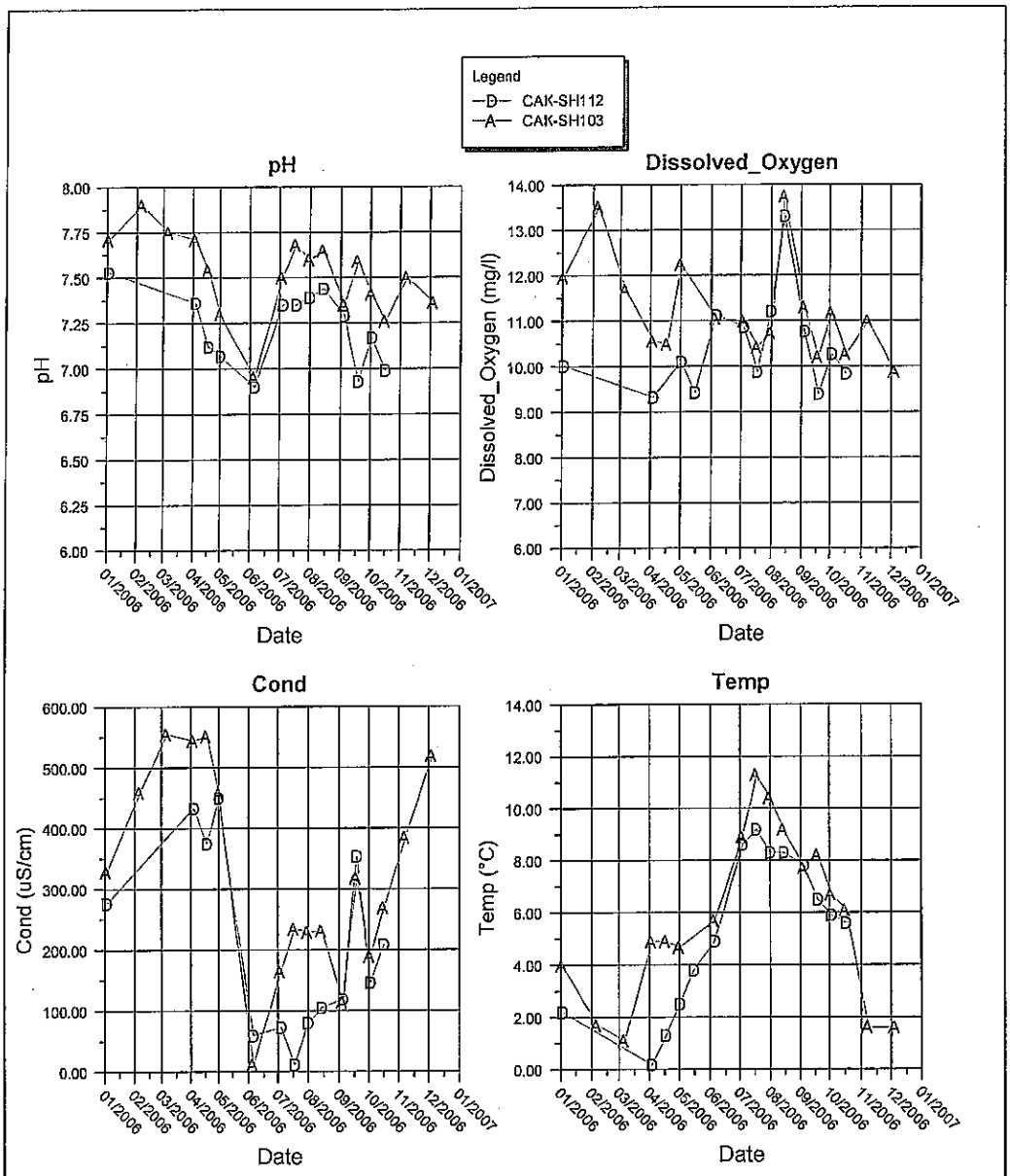
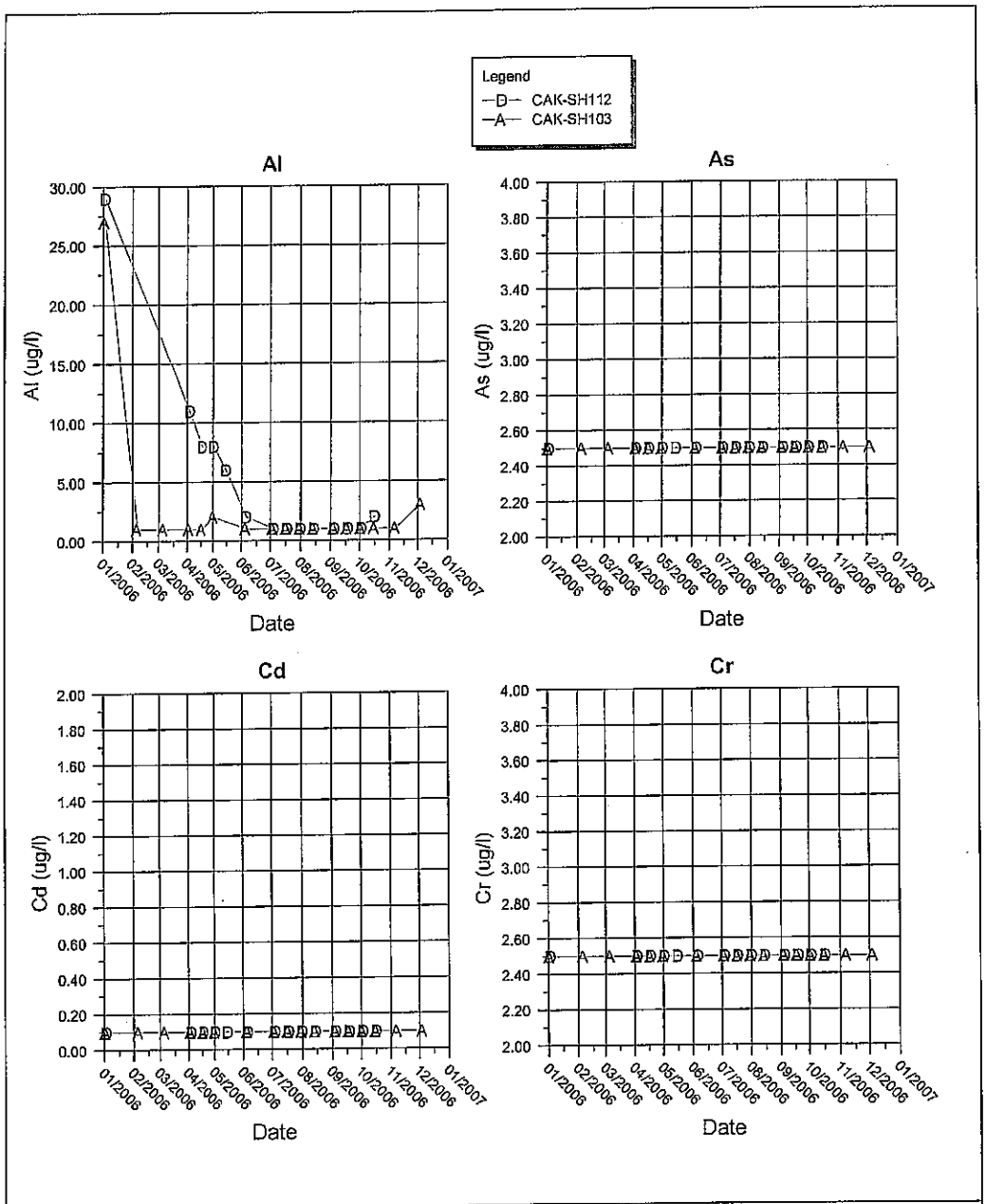
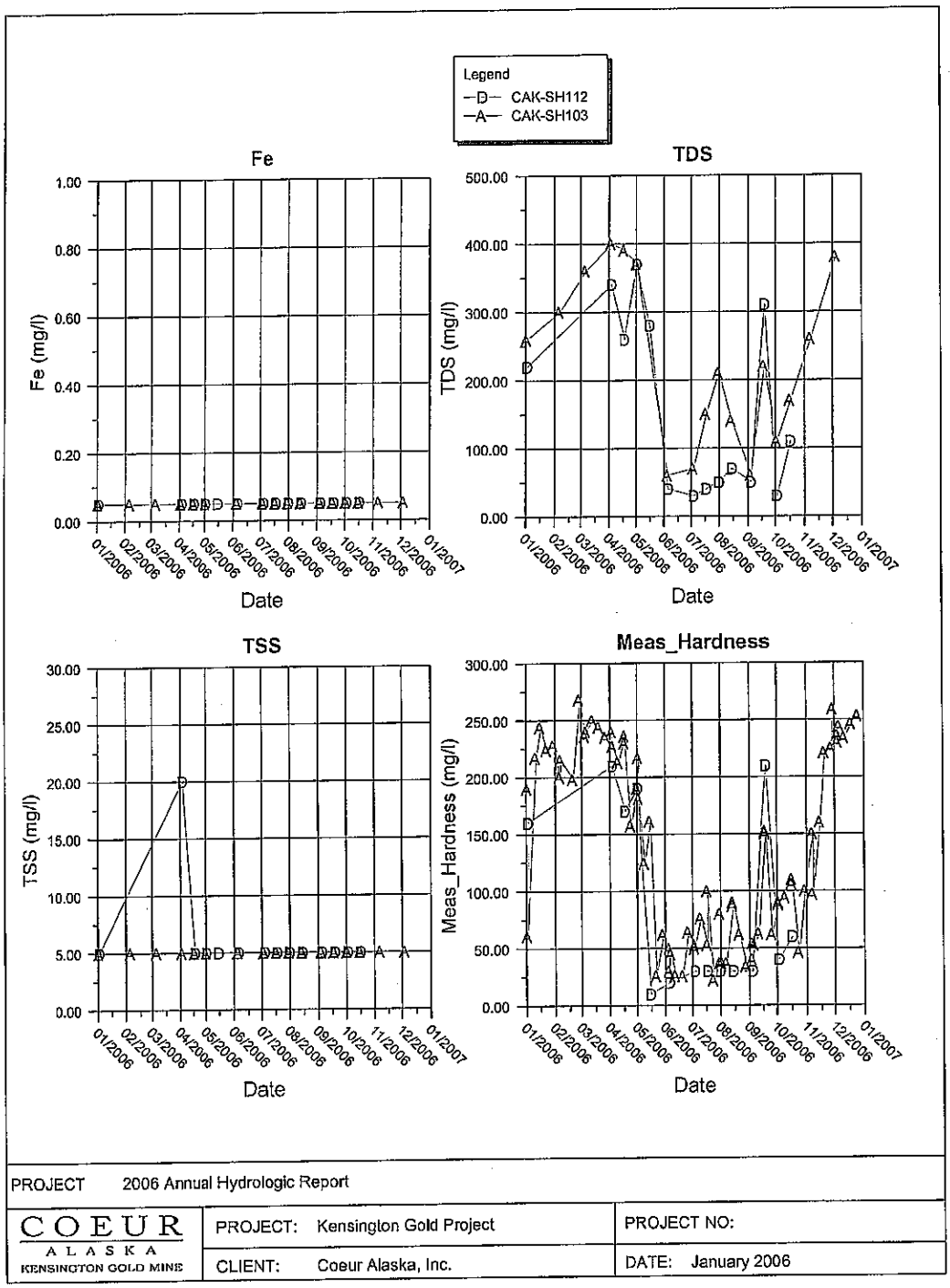

Legend
—D— CAK-SH112
—A— CAK-SH103
pH
pH
Date
Dissolved_Oxygen
Dissolved_Oxygen (mg/l)
Date
Cond
Cond (uS/cm)
Date
Temp
Temp (°C)
Date
PROJECT 2006 Annual Hydrologic Report
COEUR ALASKA KENSINGTON GOLD MINE
PROJECT: Kensington Gold Project
CLIENT: Coeur Alaska, Inc.
PROJECT NO:
DATE: January 2006

FIGURE 2



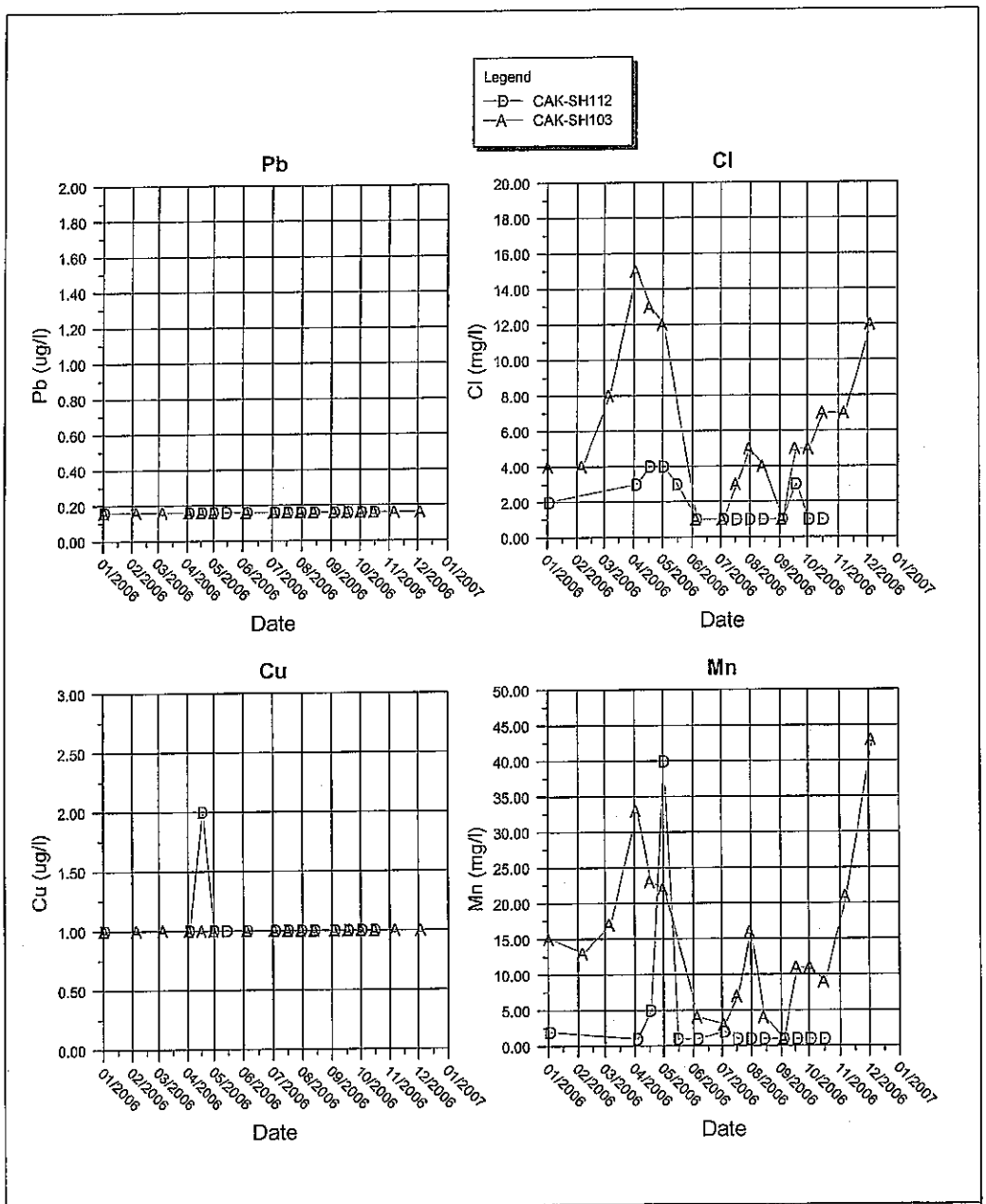
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 3



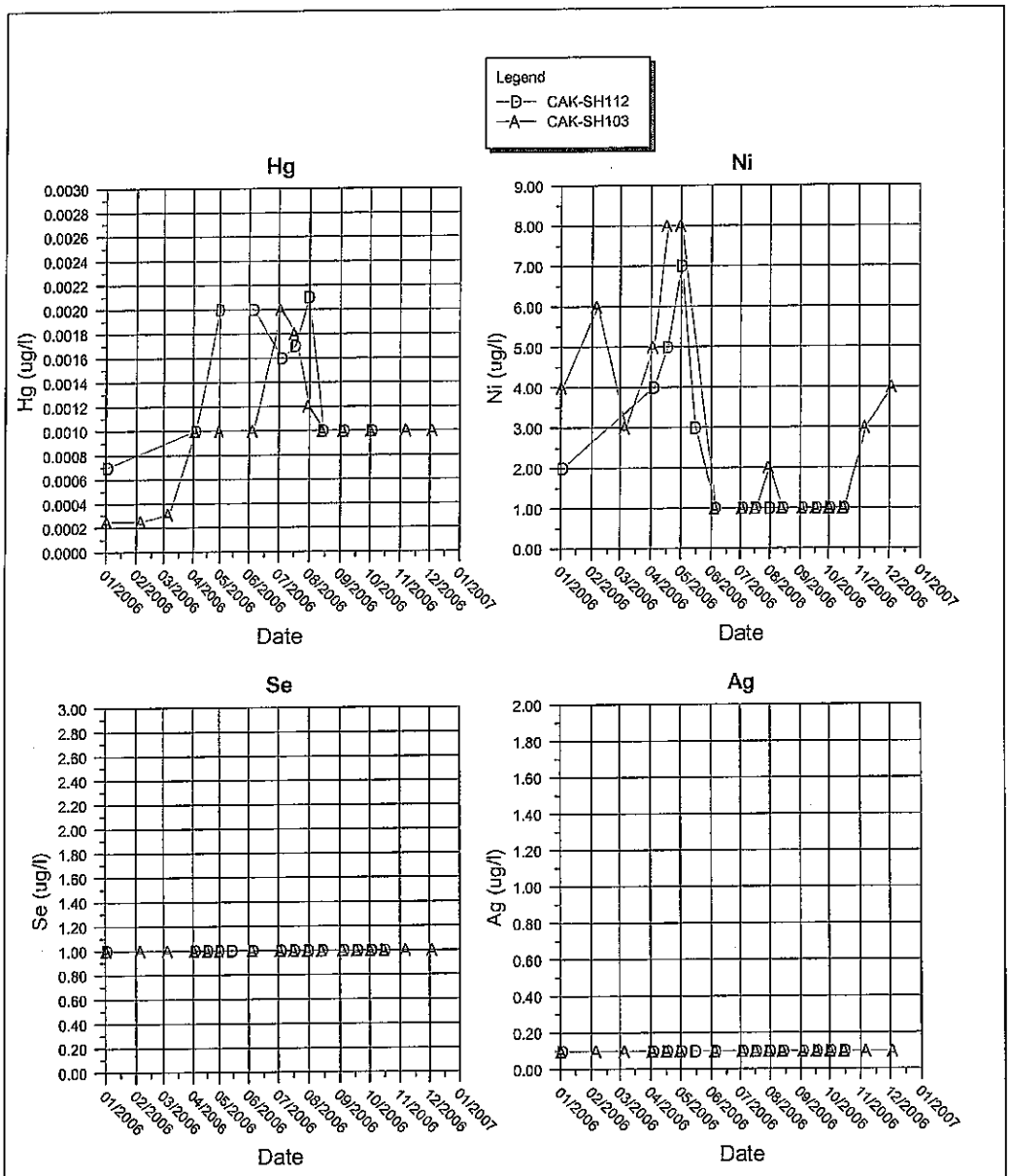
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 4



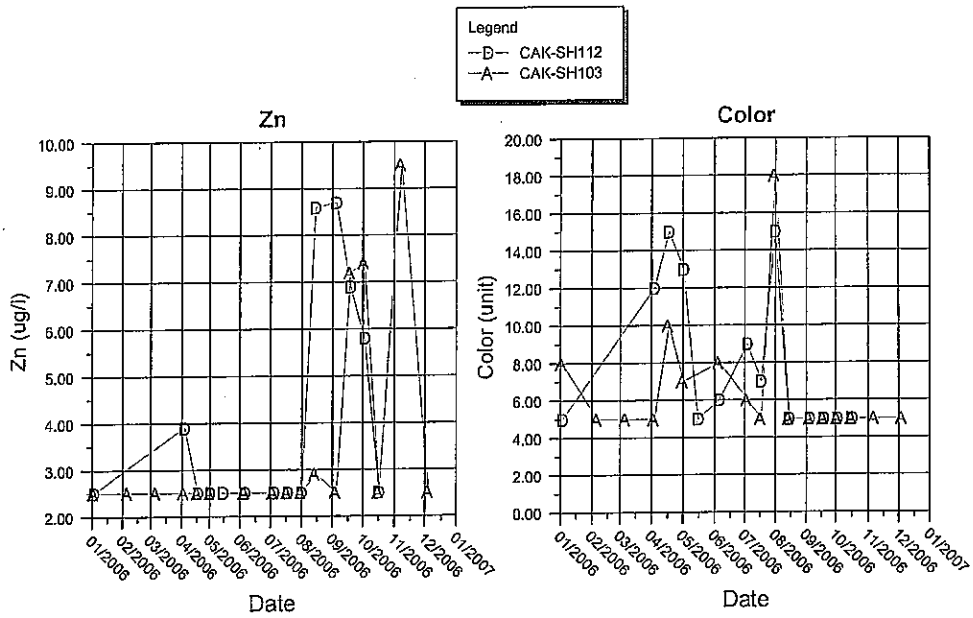
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 5



PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 6



PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 7

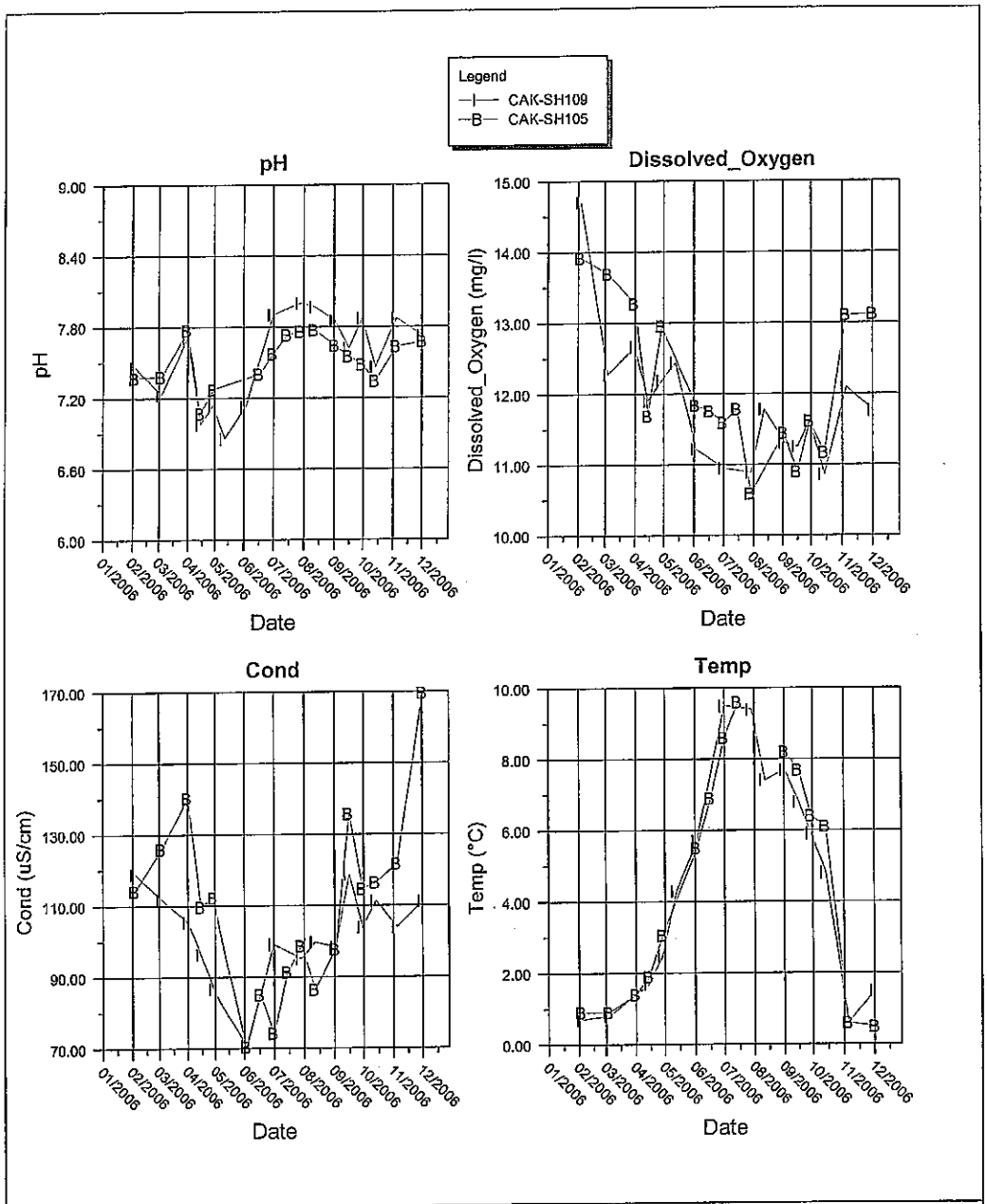
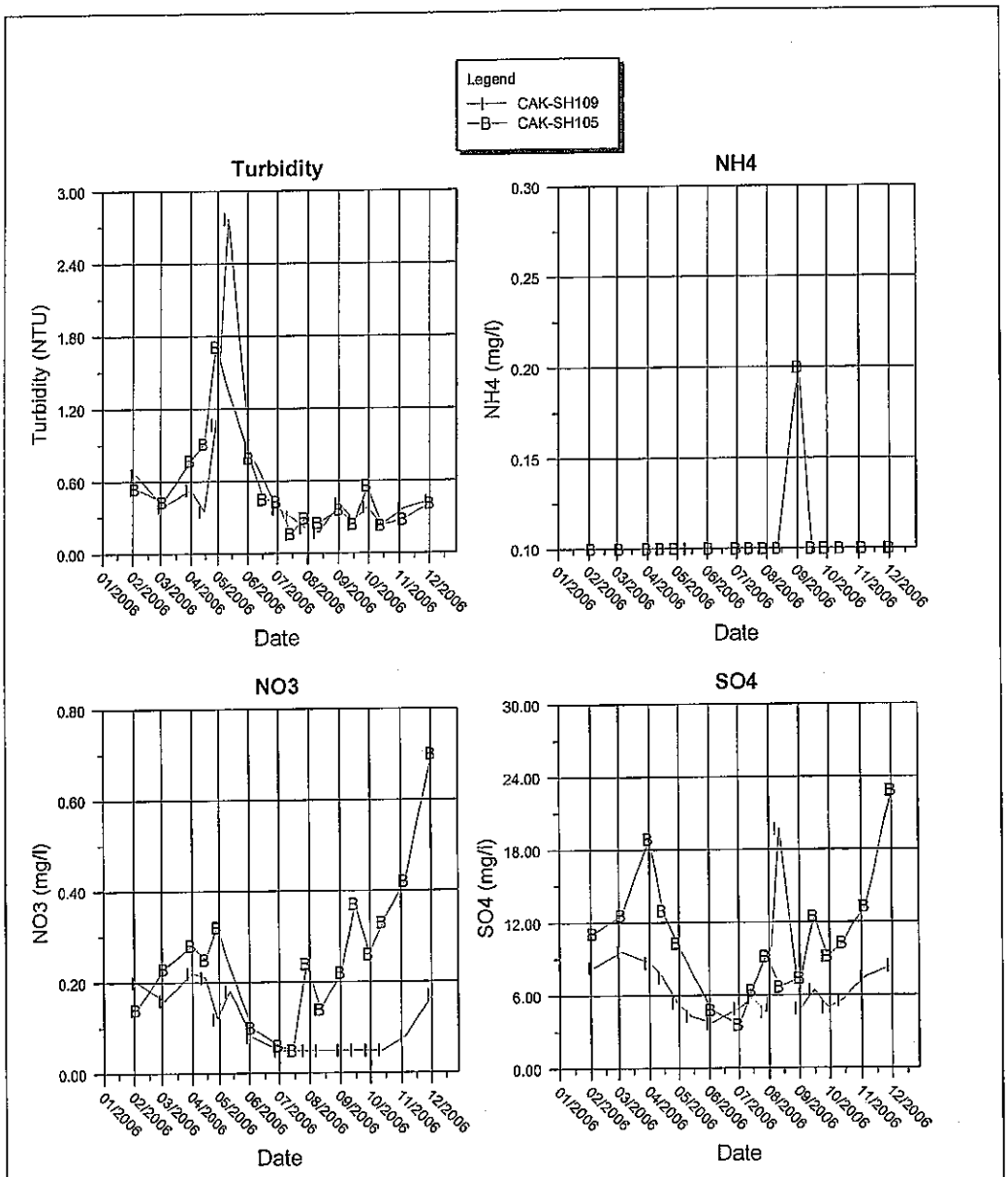
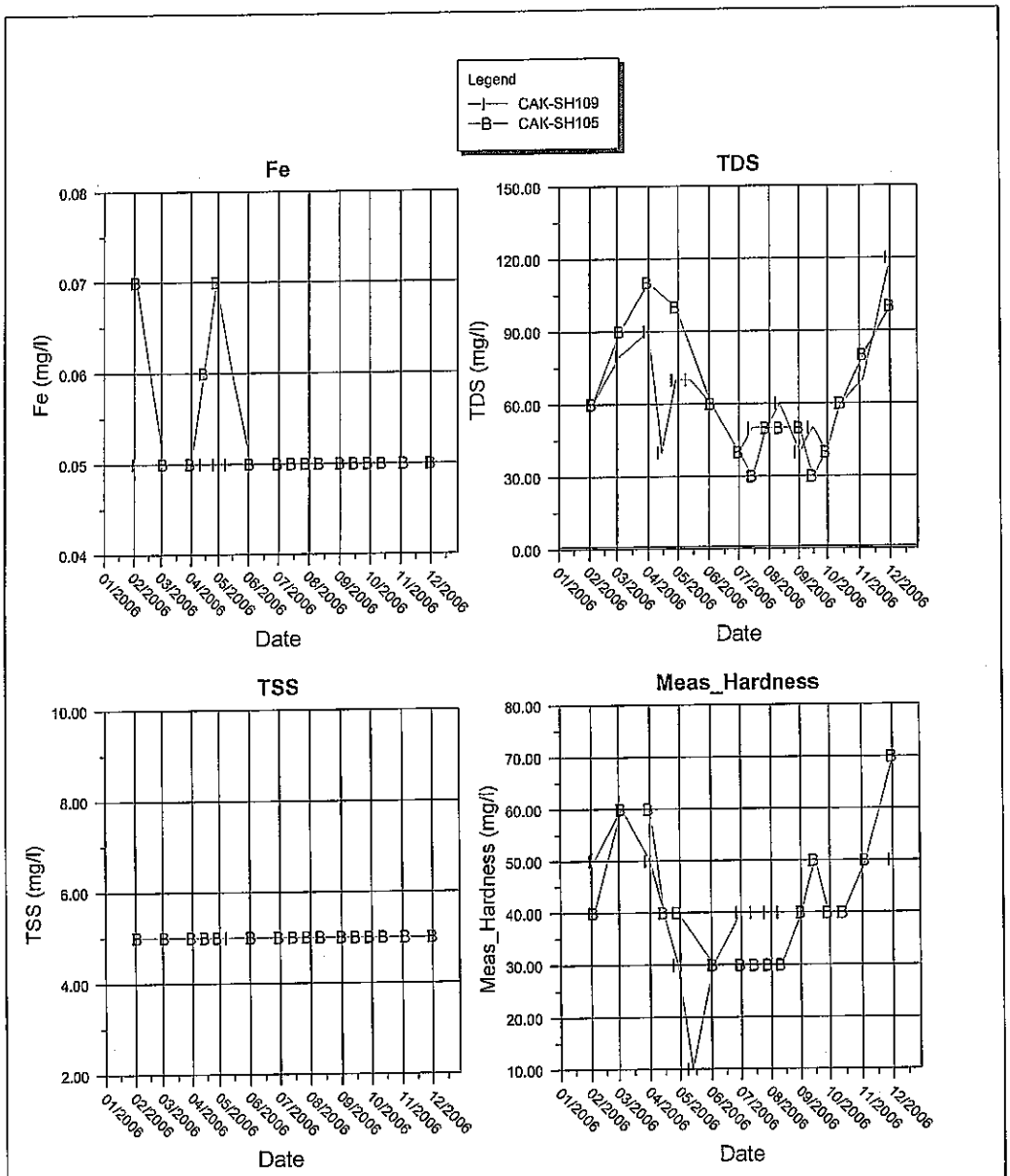

Legend
CAK-SH109
CAK-SH105
pH
pH
Date
Dissolved_Oxygen
Dissolved_Oxygen (mg/l)
Date
Cond
Cond (uS/cm)
Date
Temp
Temp (°C)
Date
PROJECT 2006 Annual Hydrologic Report
COEUR ALASKA KENSINGTON GOLD MINE
PROJECT: Kensington Gold Project
PROJECT NO:
CLIENT: Coeur Alaska, Inc.
DATE: January 2006

FIGURE 8



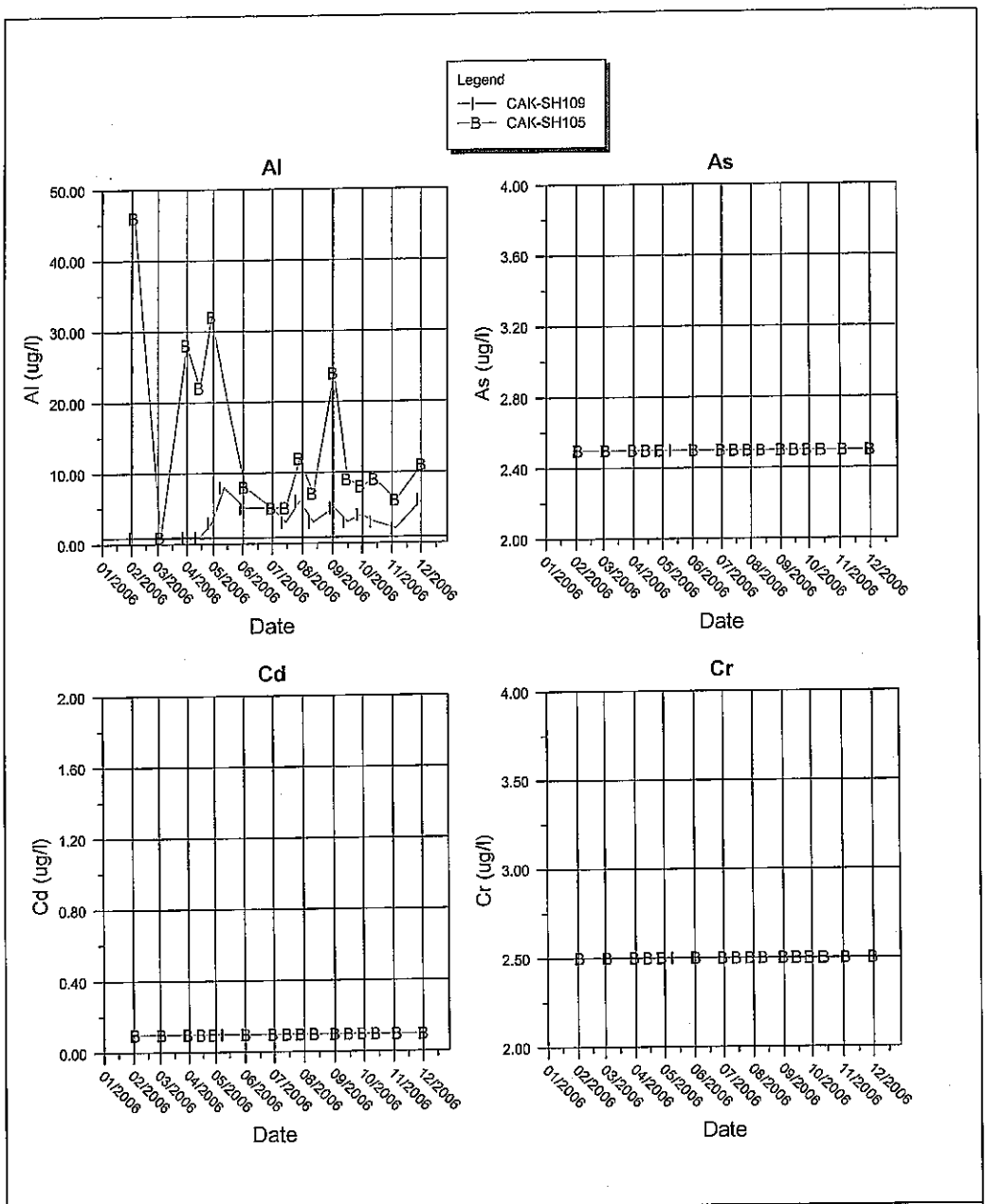
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 9



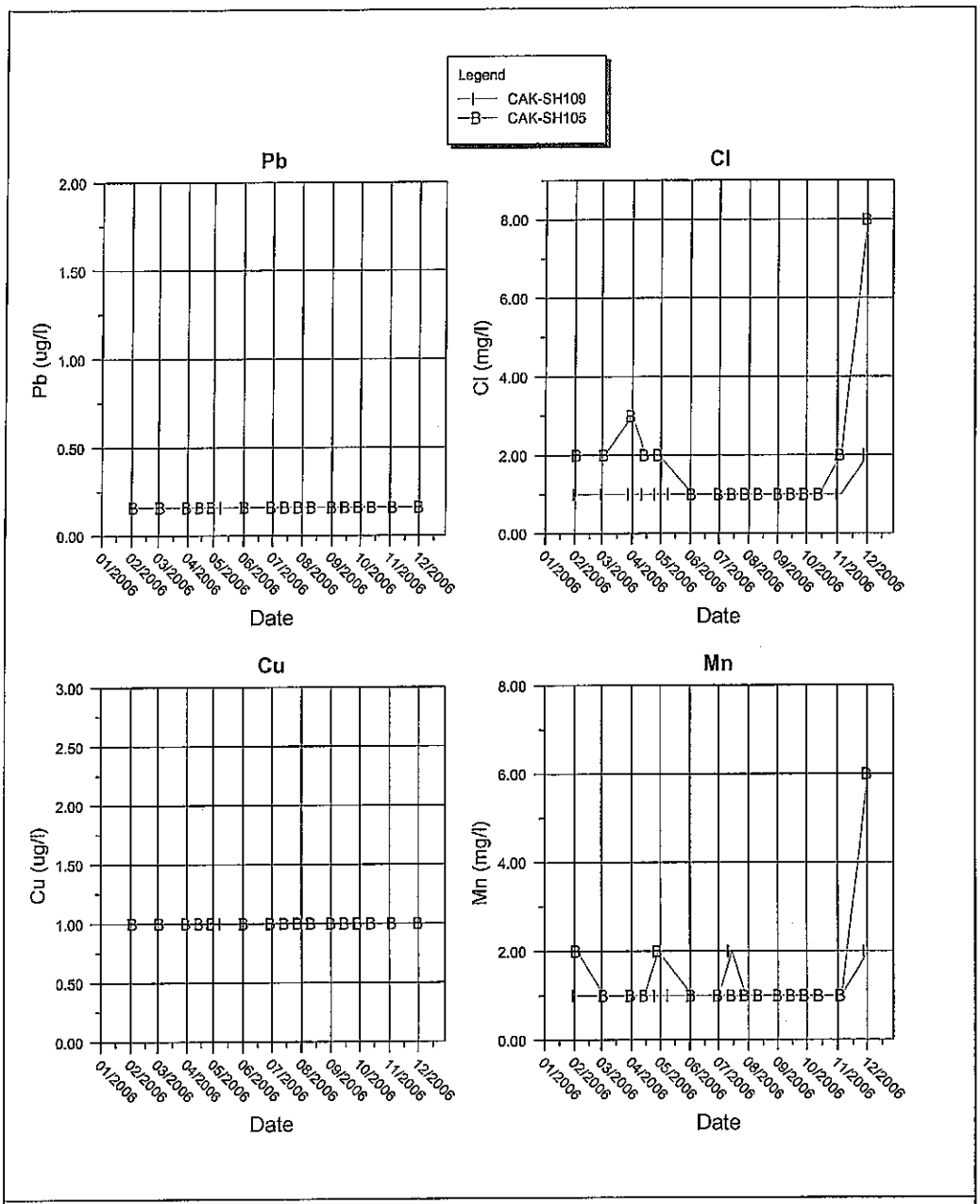
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 10



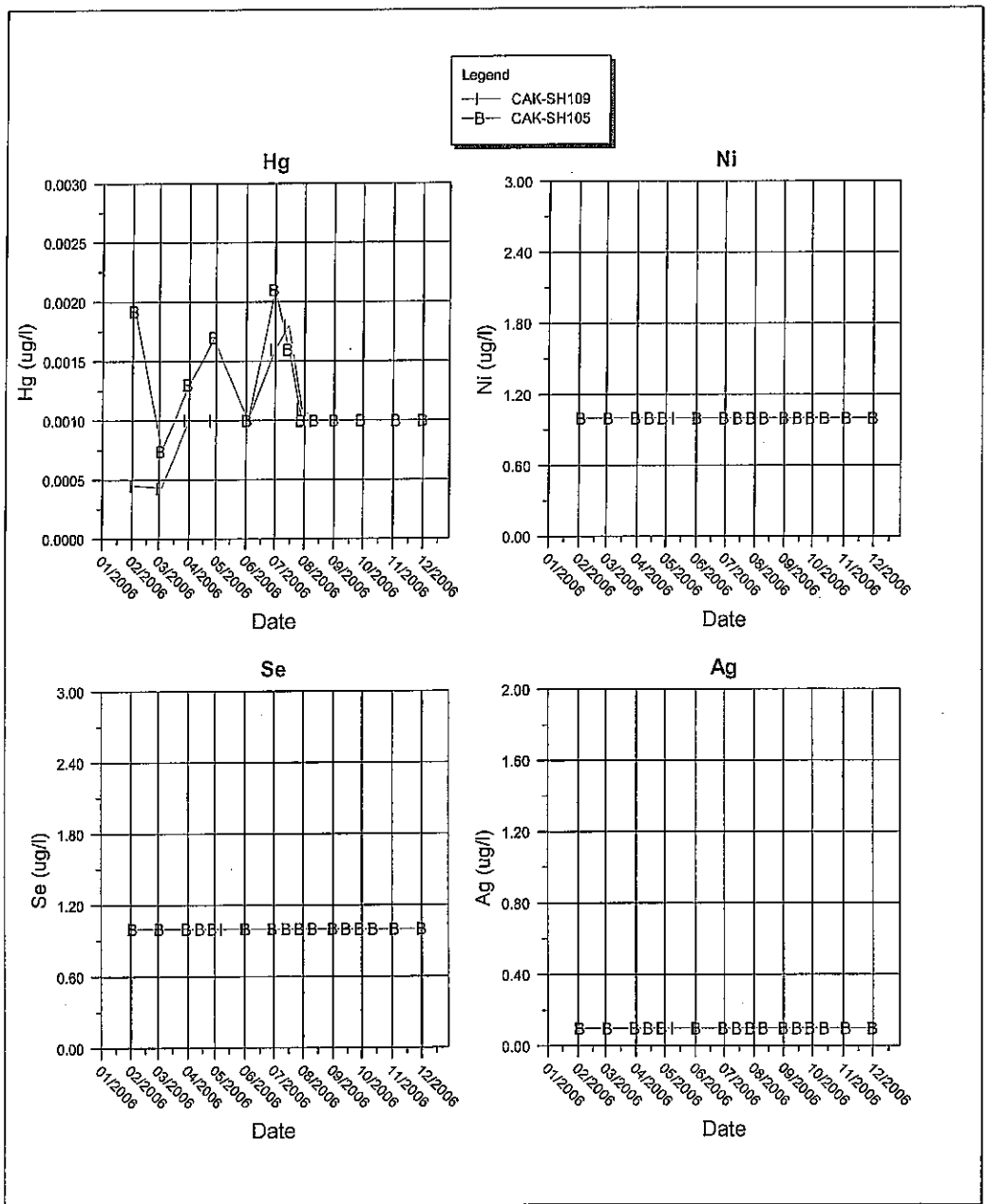
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 11



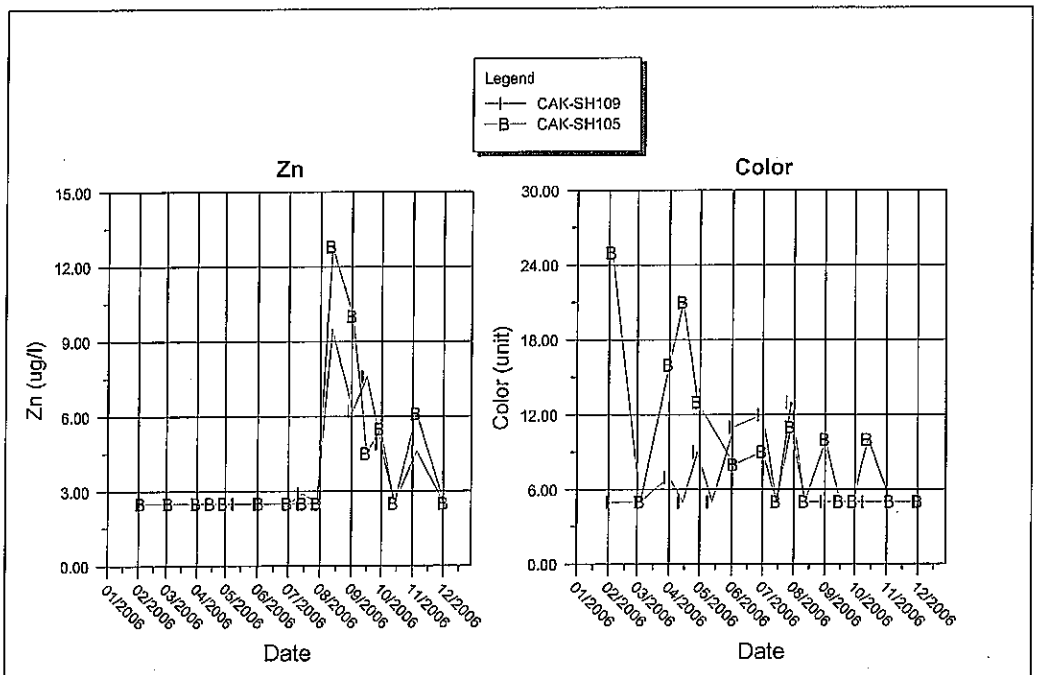
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 12



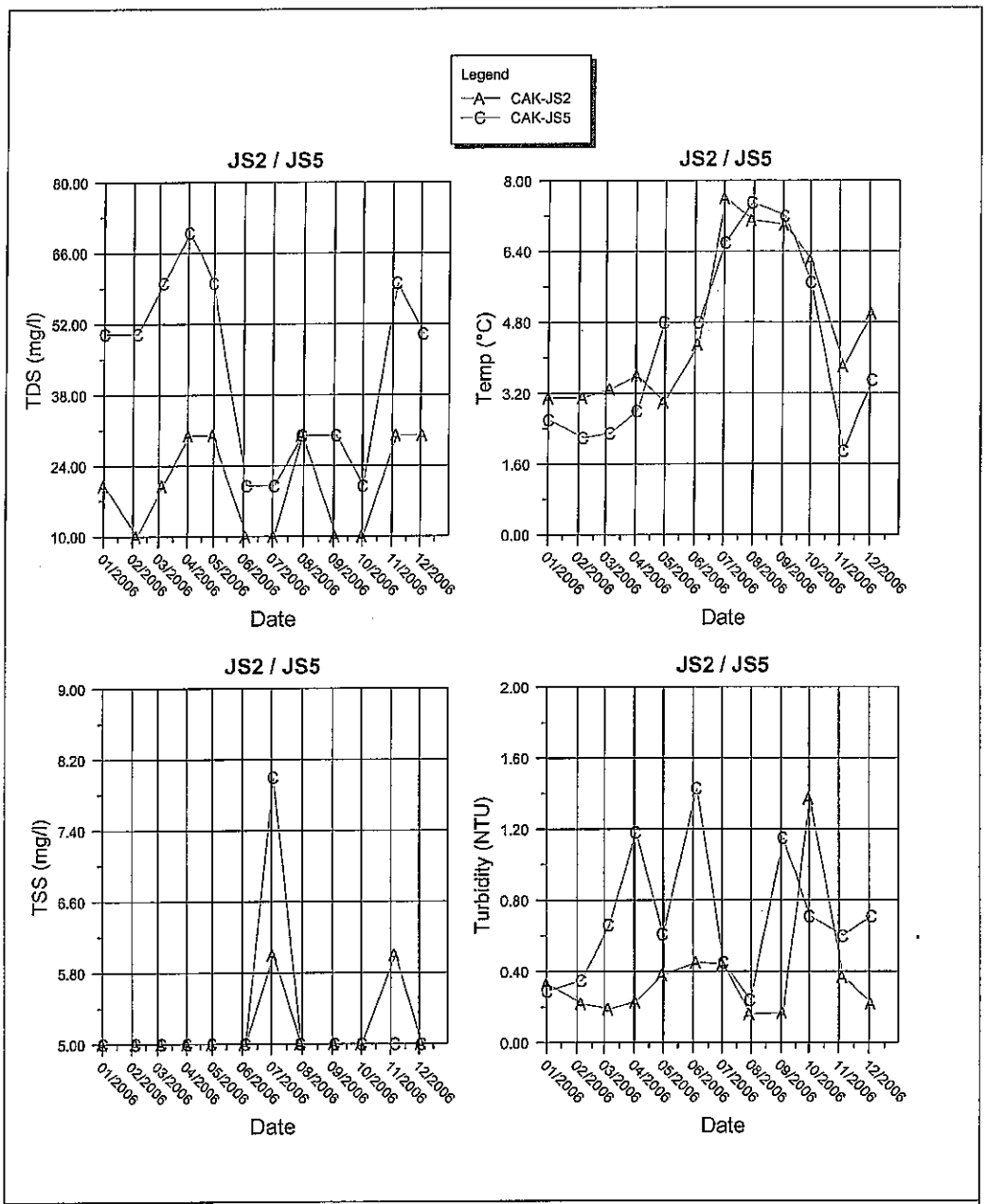
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 13



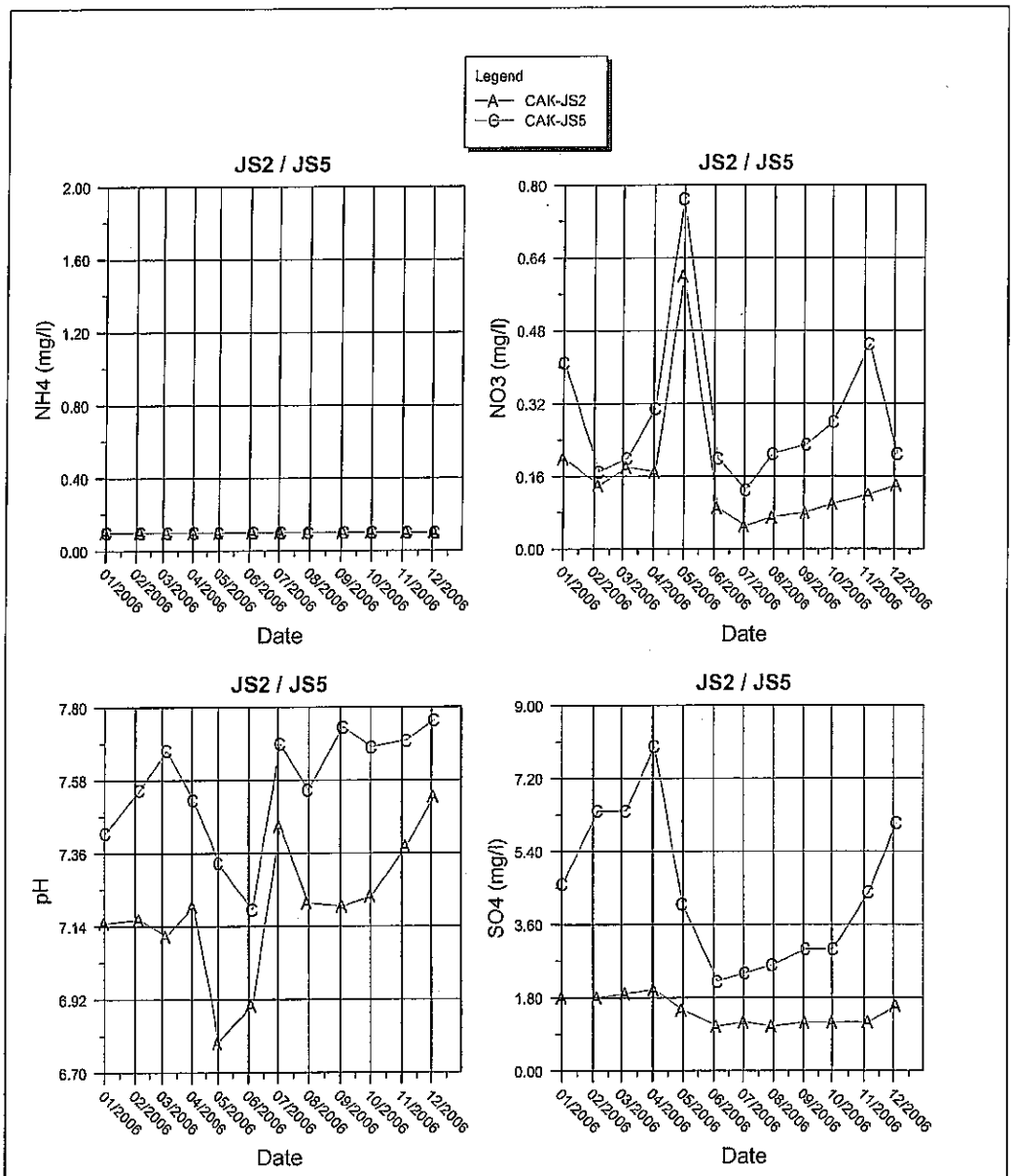
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 14



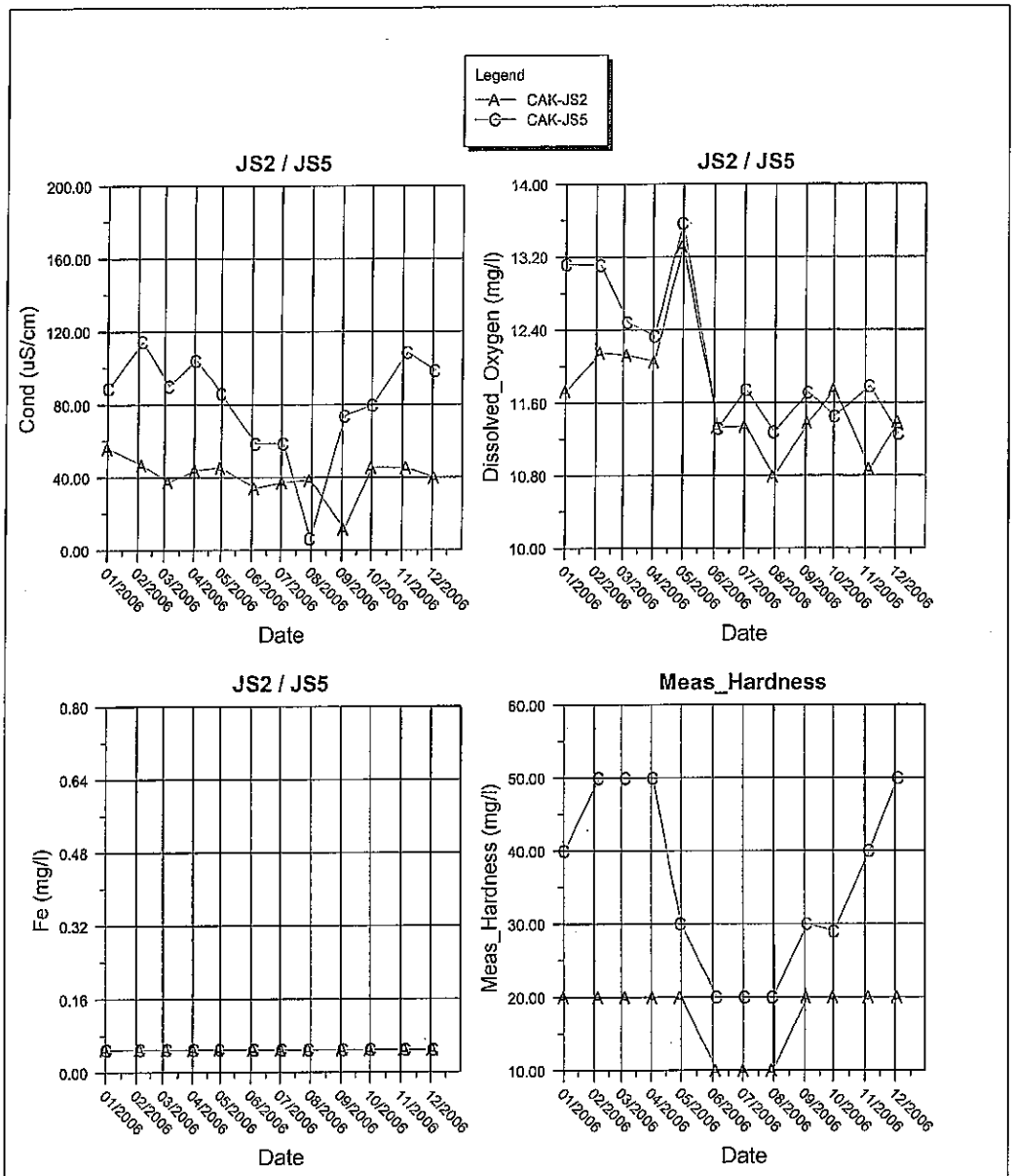
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 15



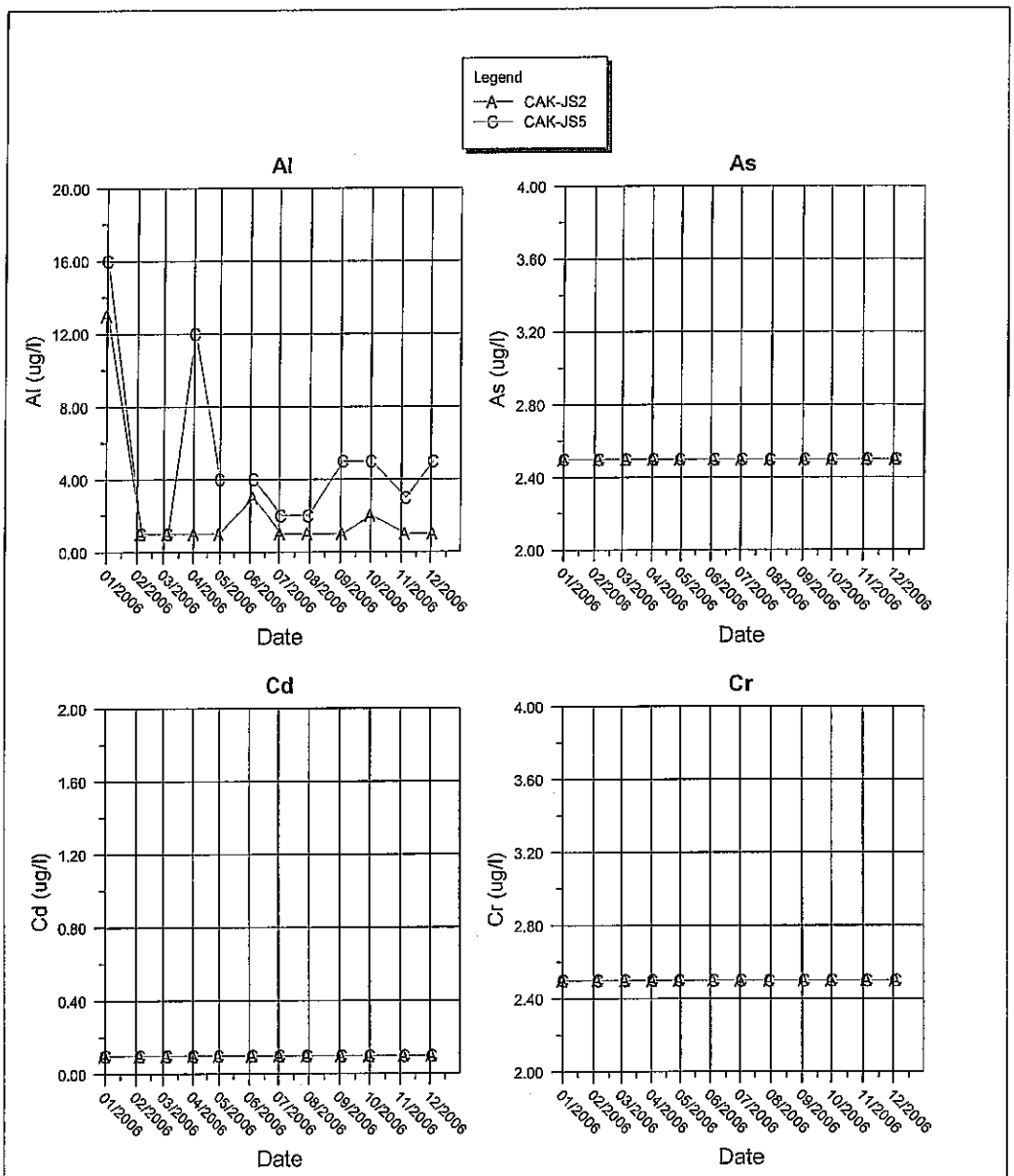
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 16



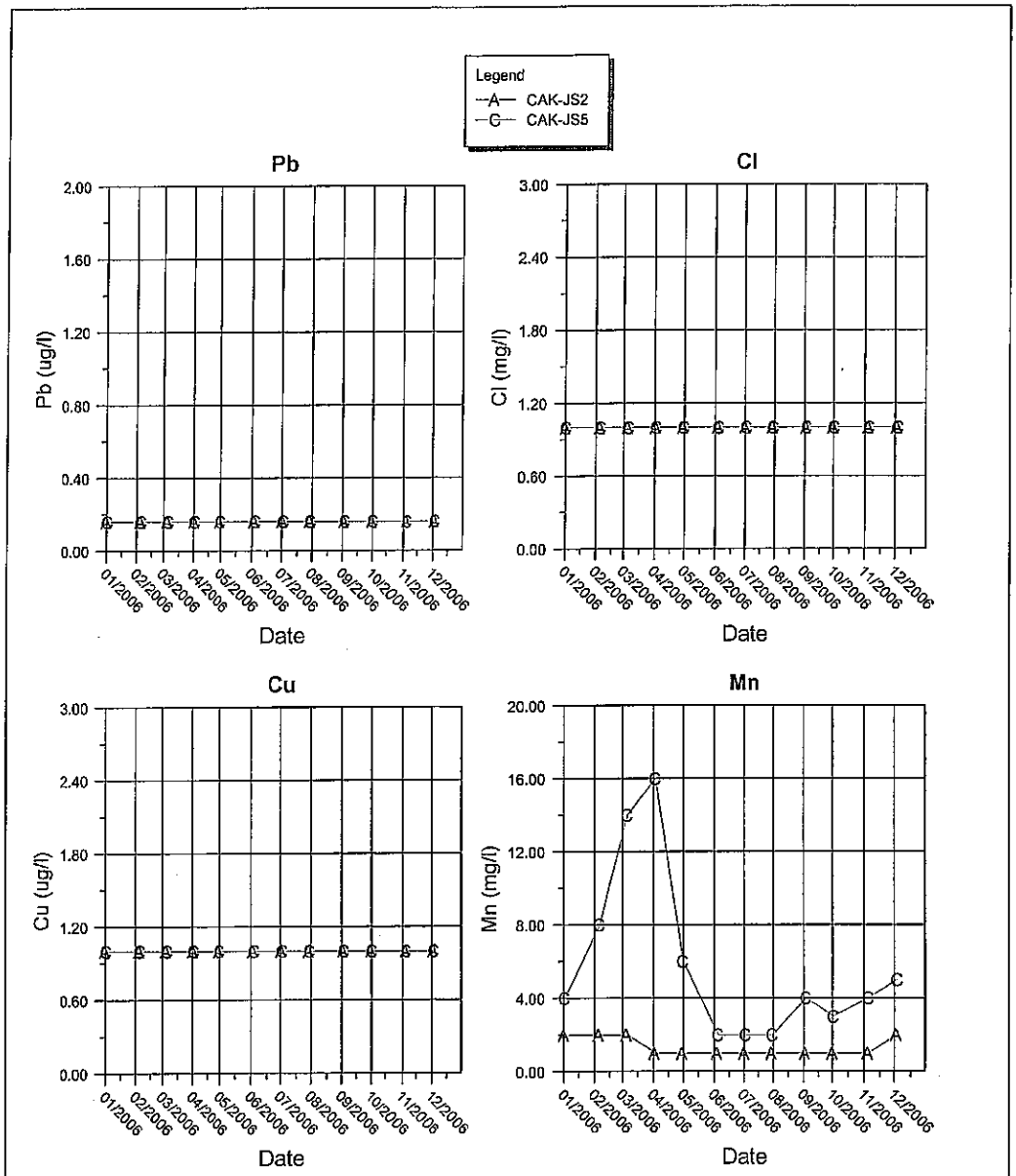
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 17



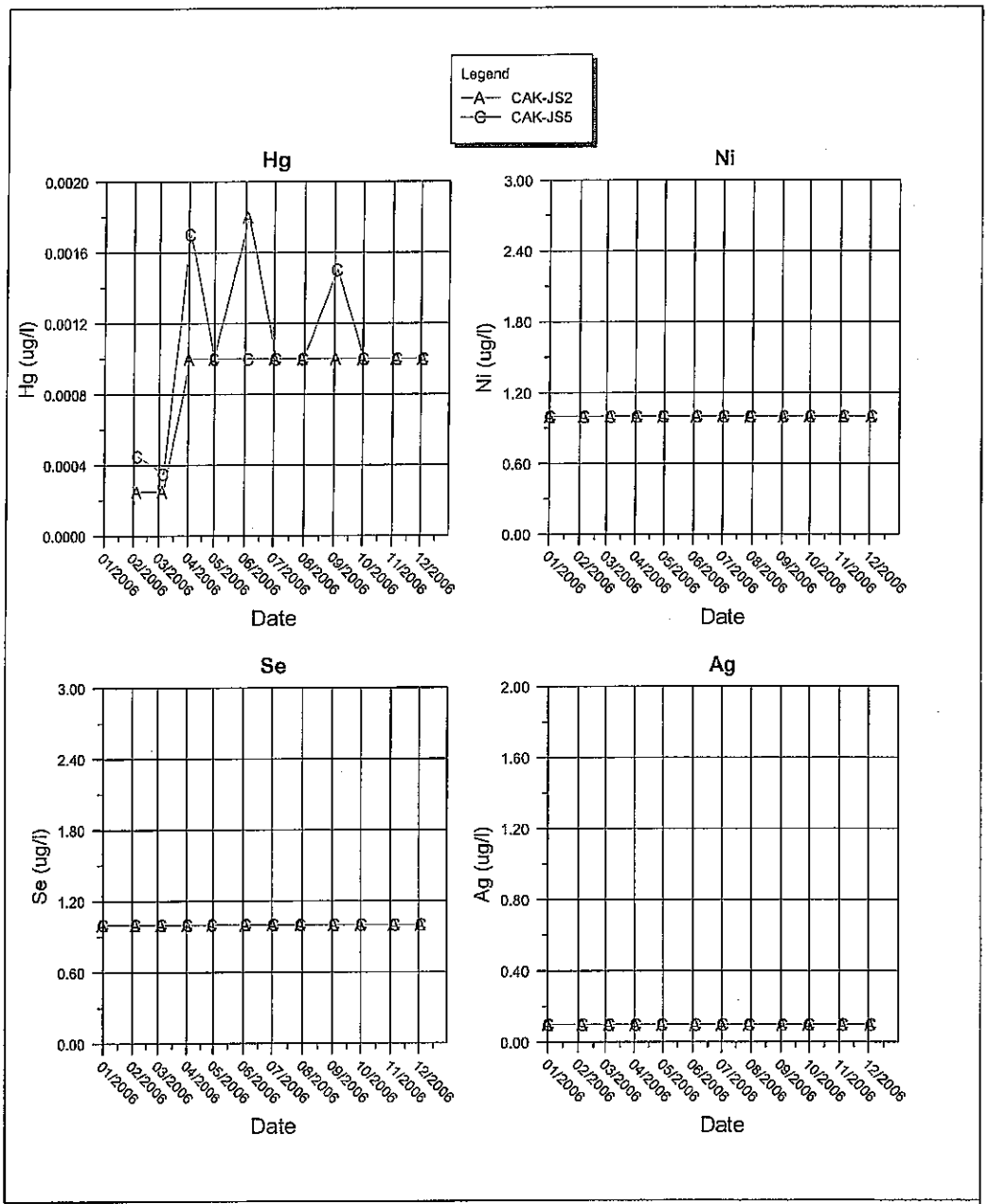
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 18



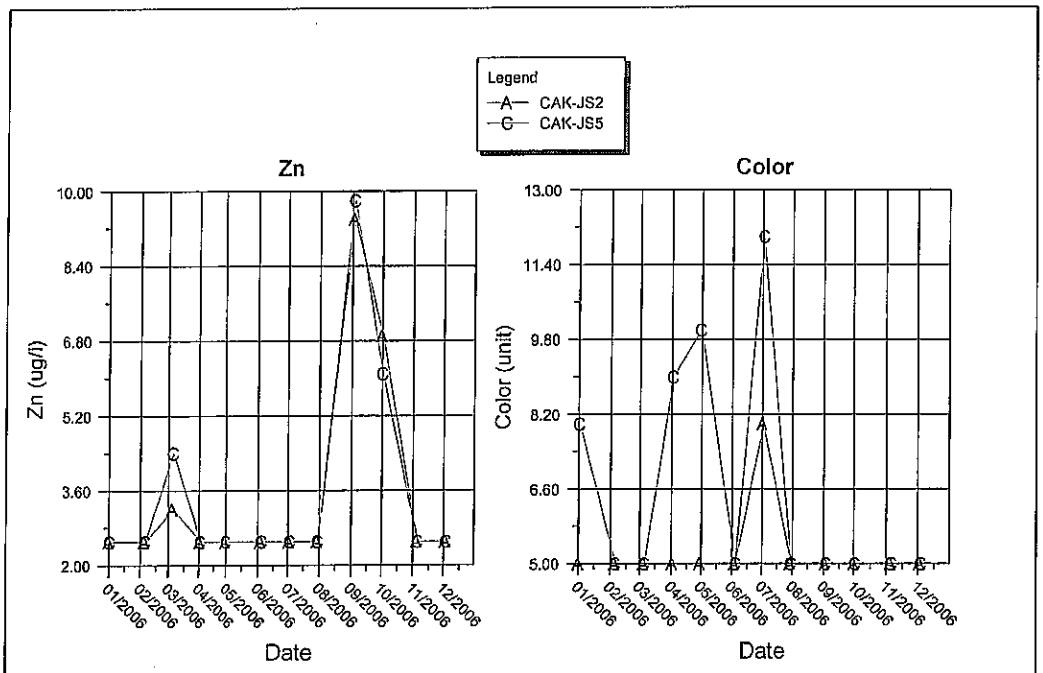
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 19



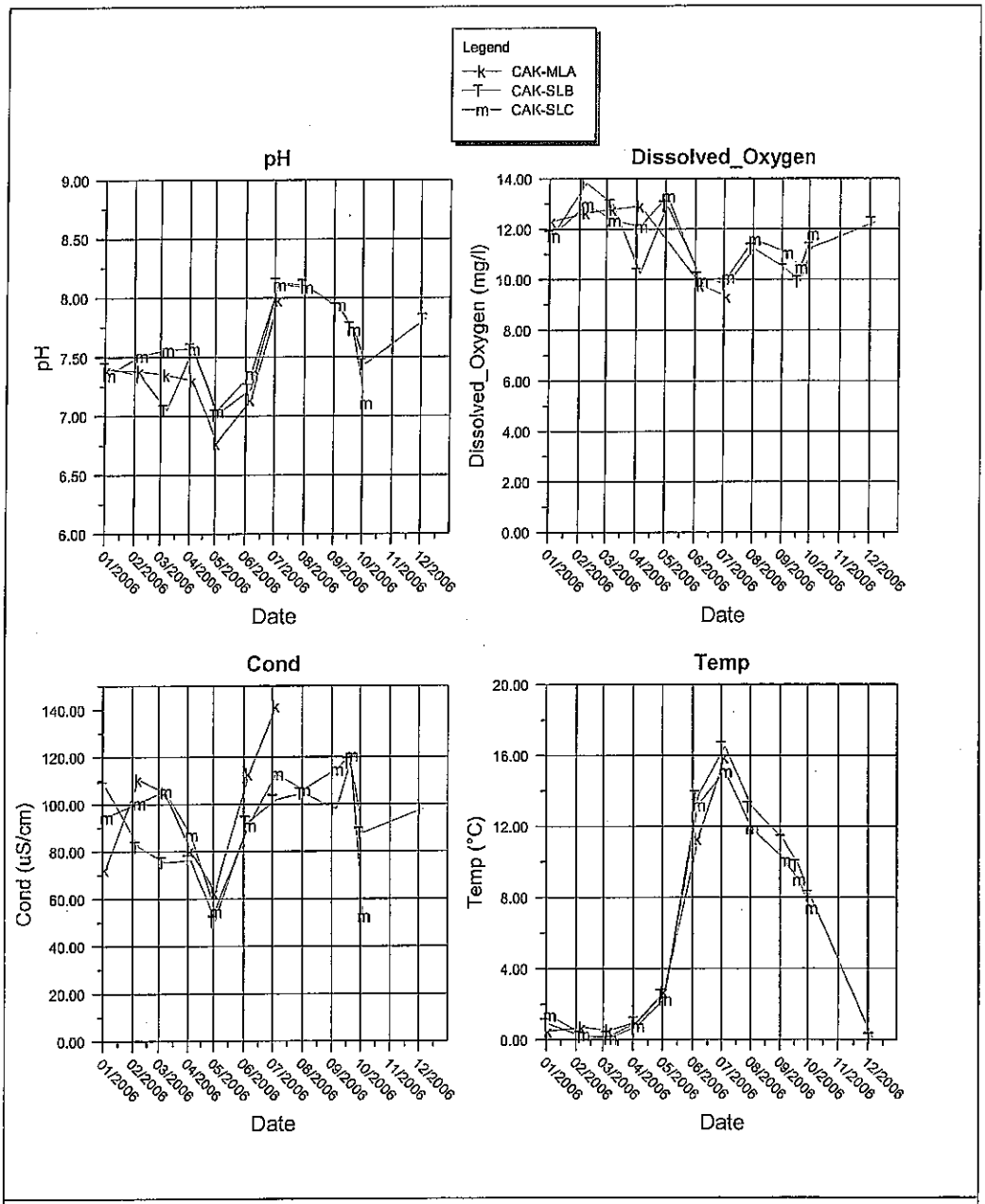
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 20



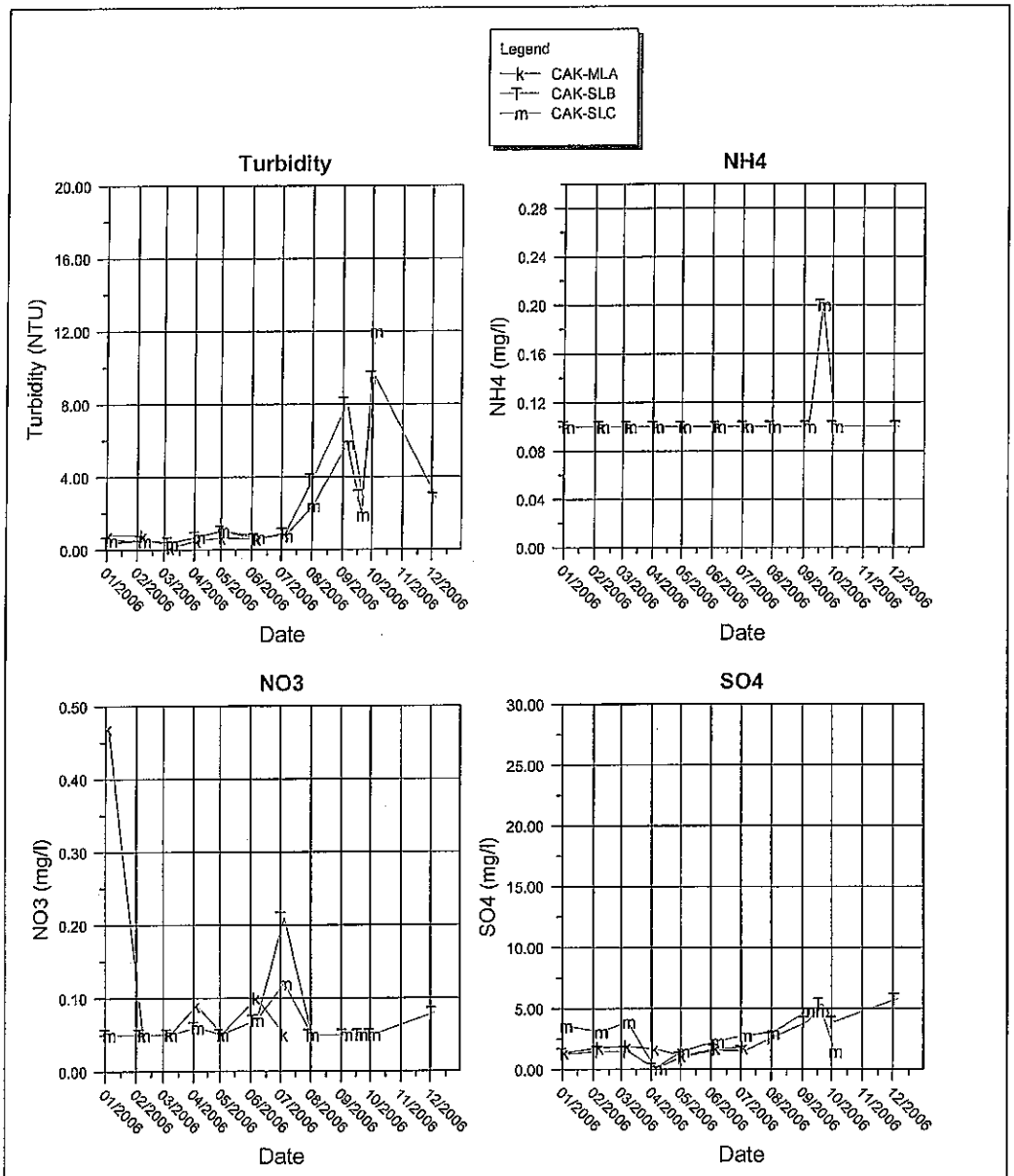
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 21



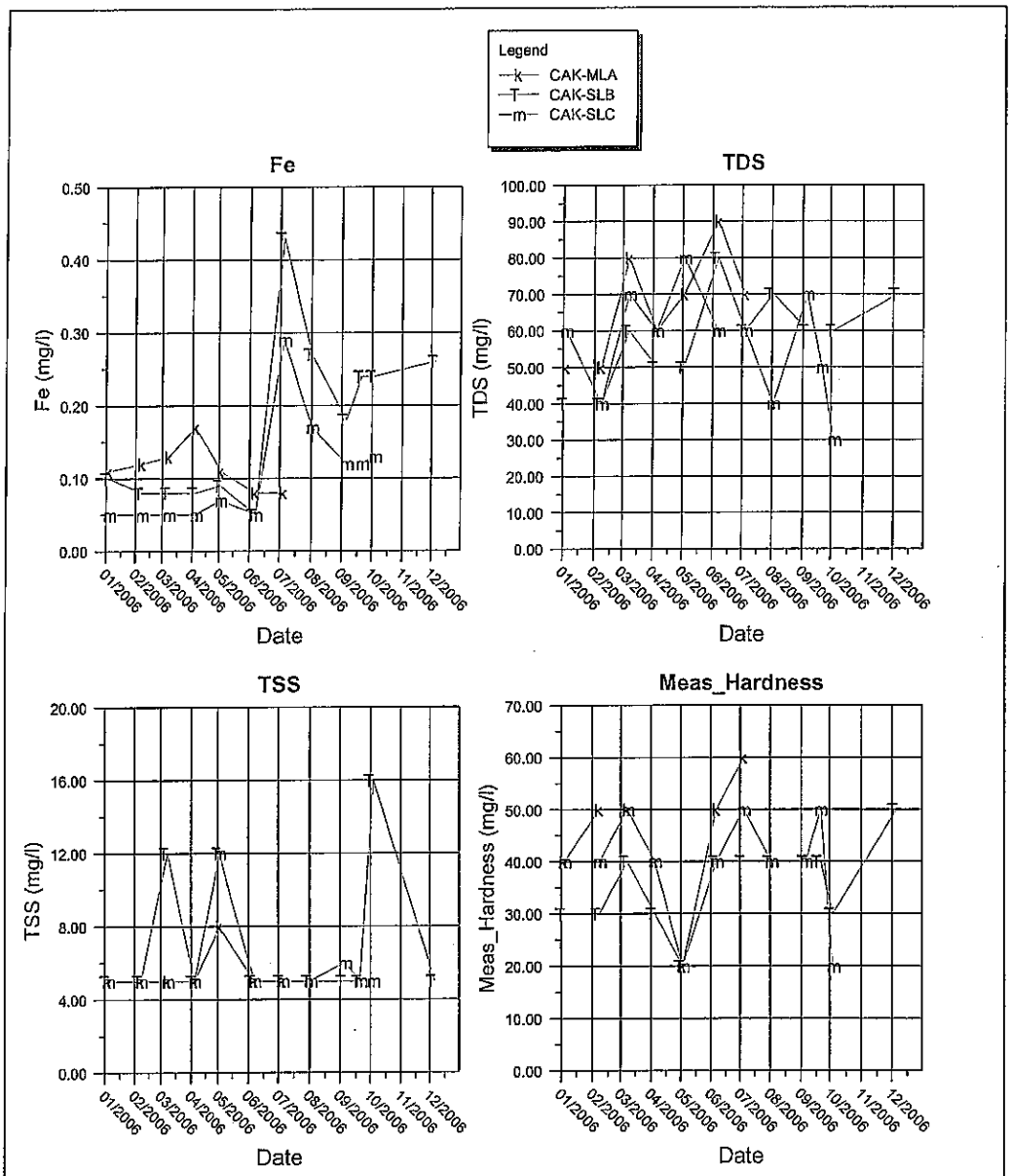
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 22



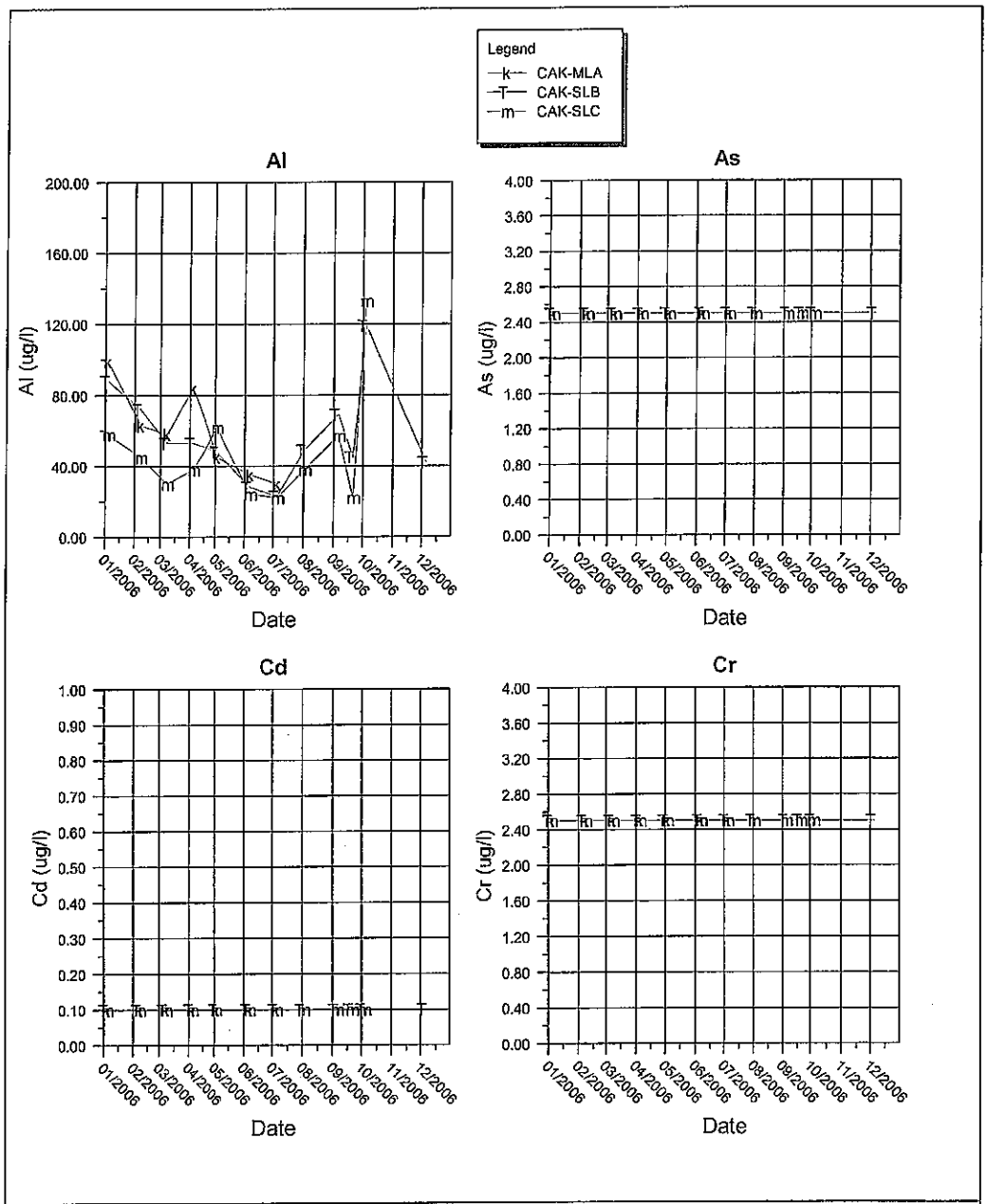
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 23



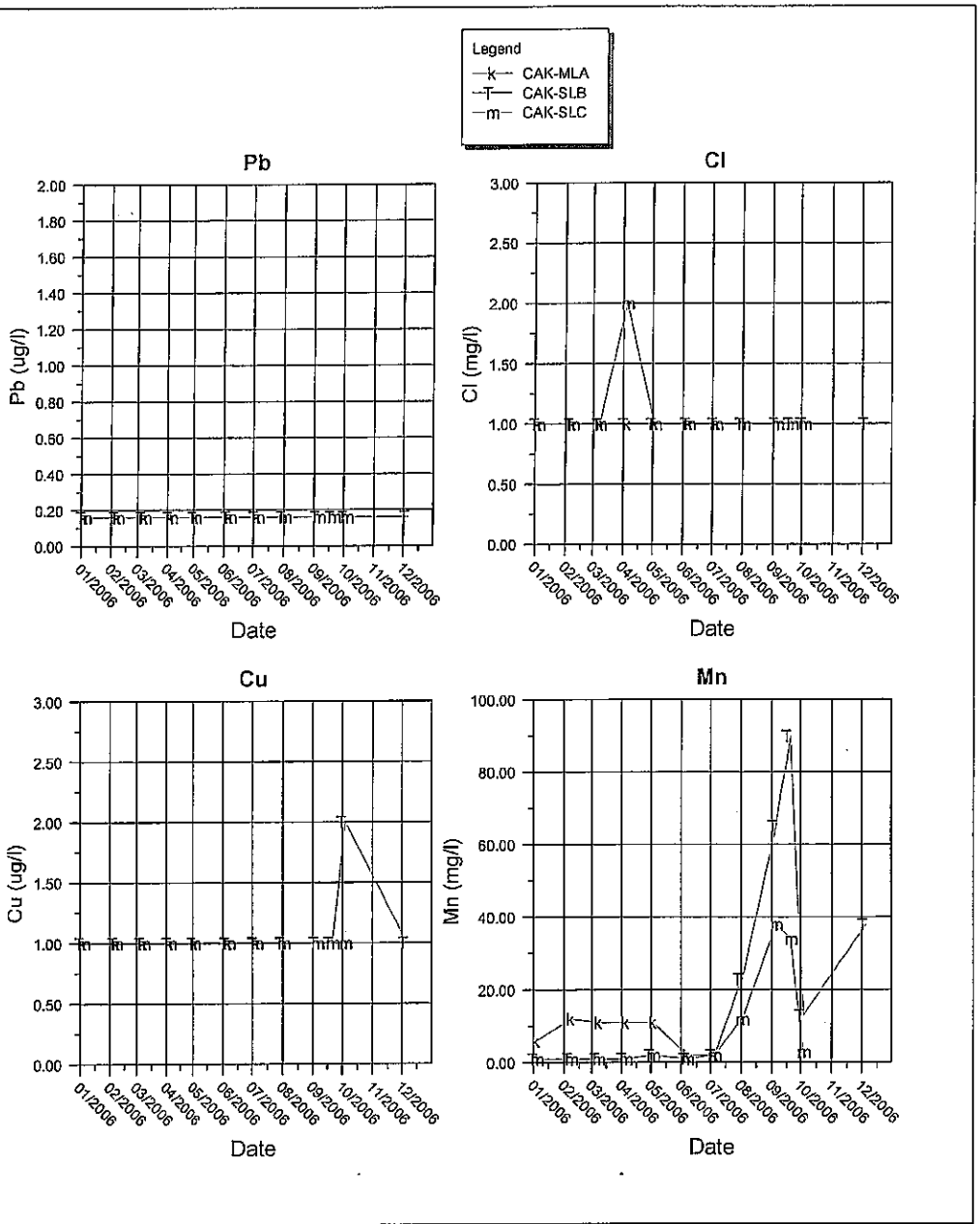
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 24



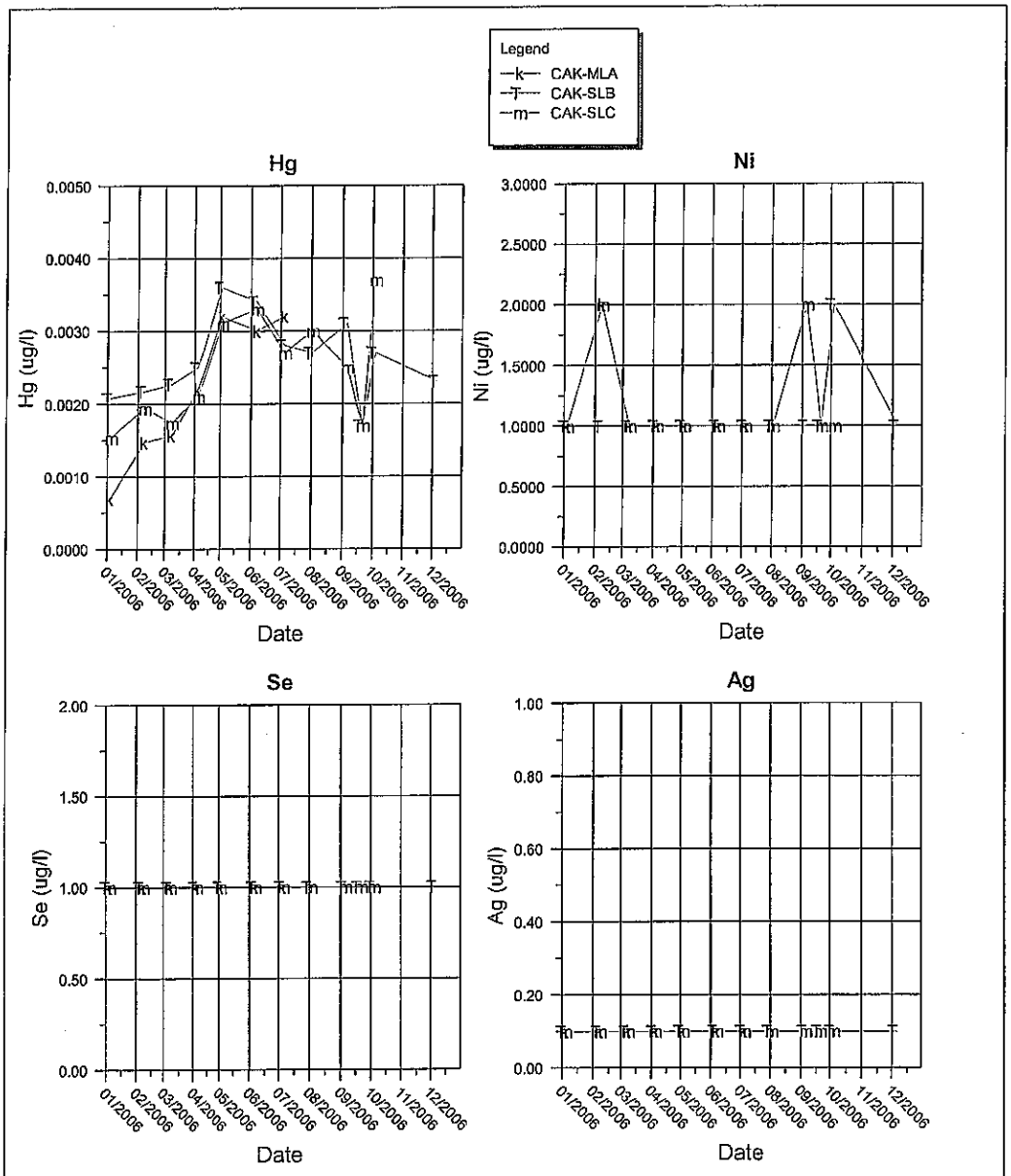
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 25



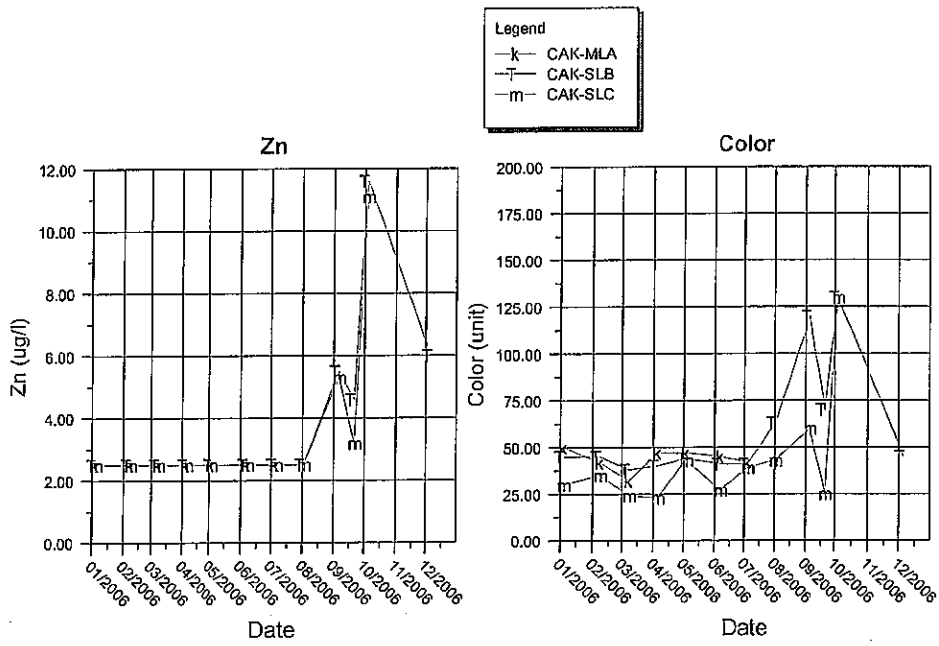
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 26



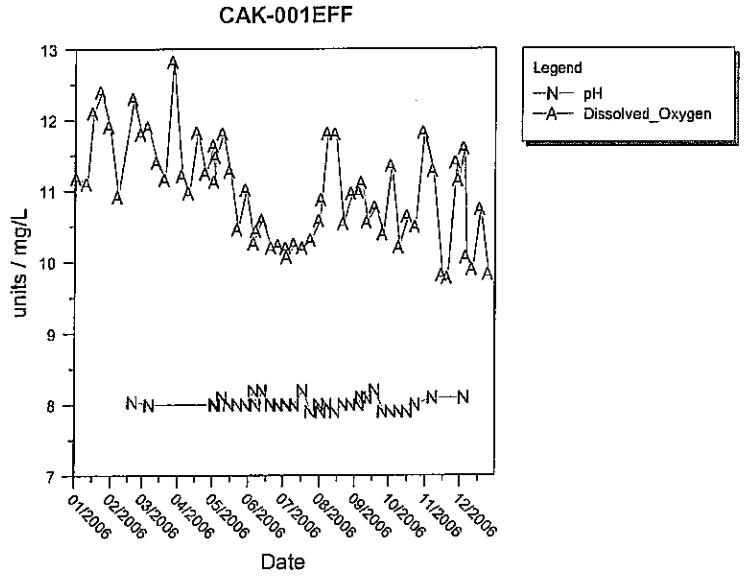
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

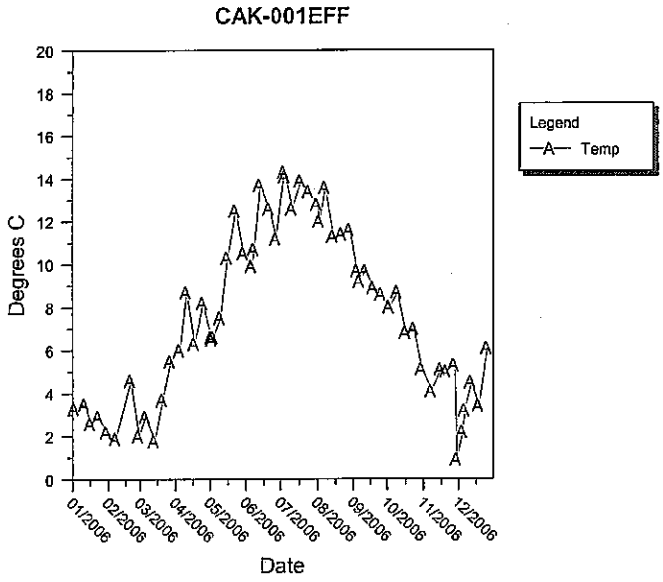
FIGURE 27



PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

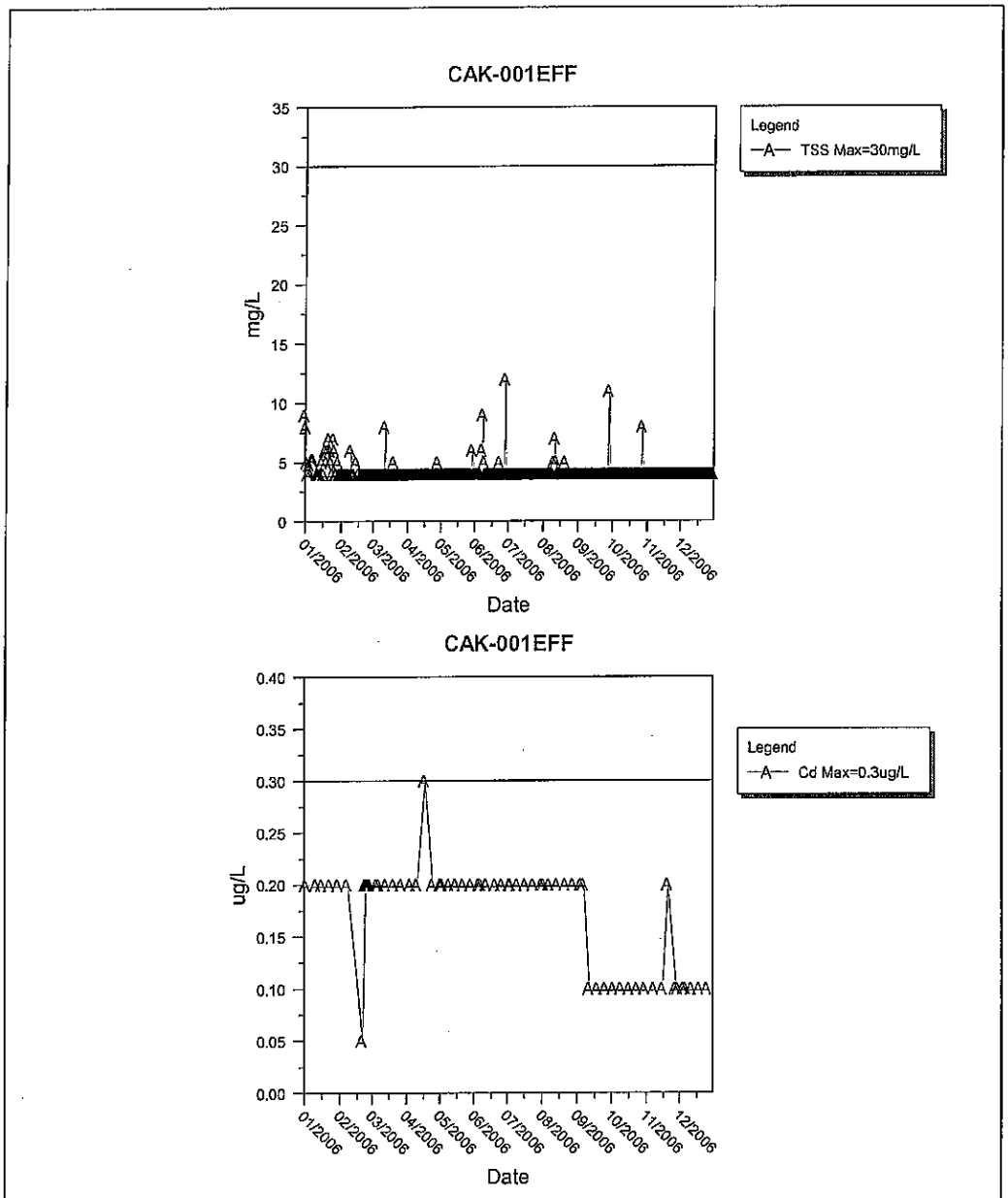
FIGURE 28





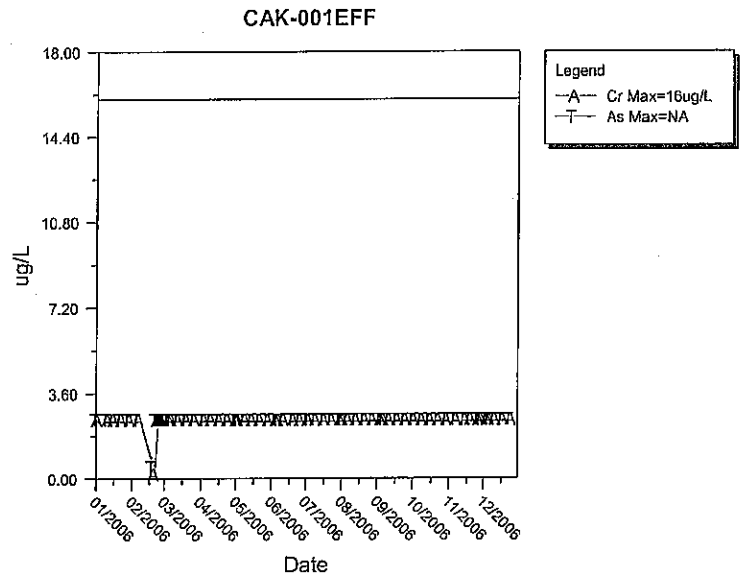
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

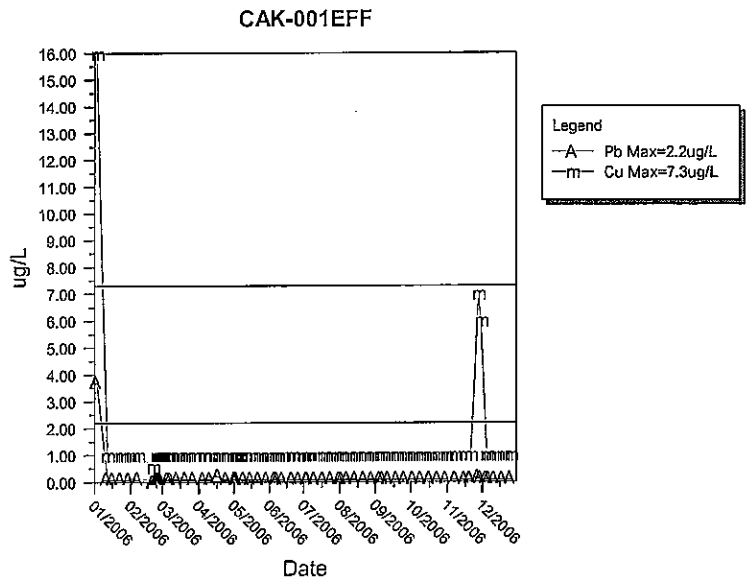
FIGURE 29



PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

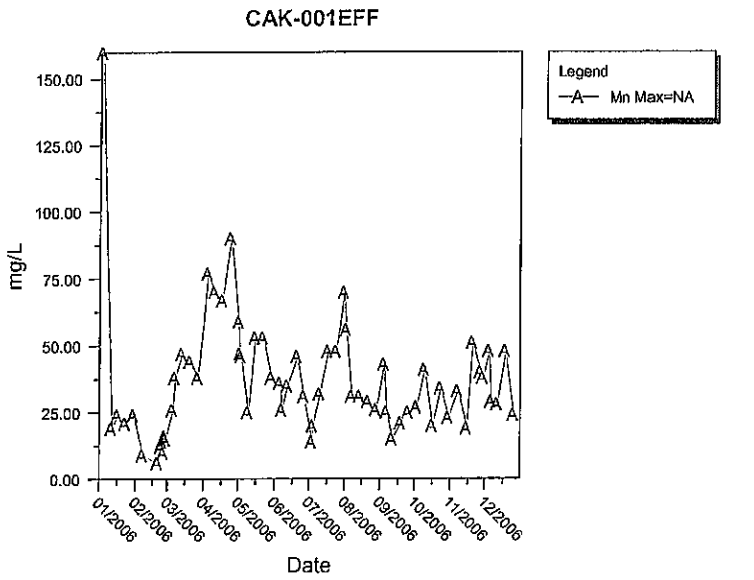
FIGURE 30

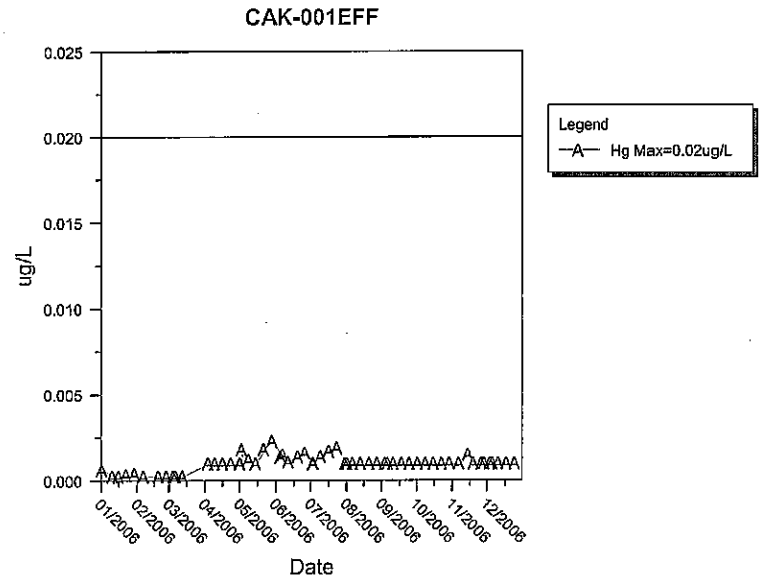




PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

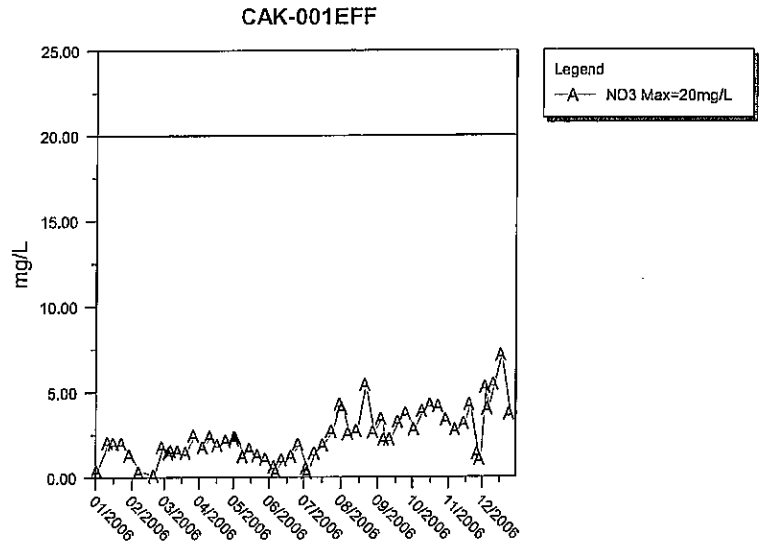
FIGURE 31

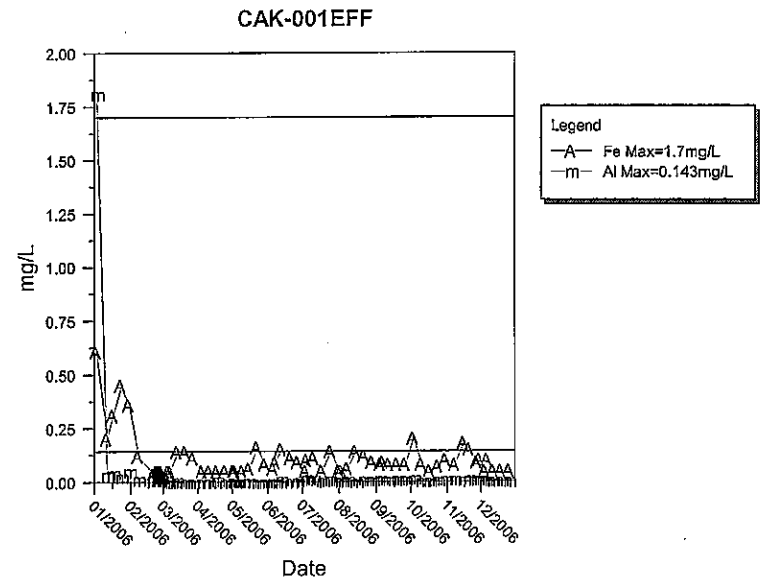




PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

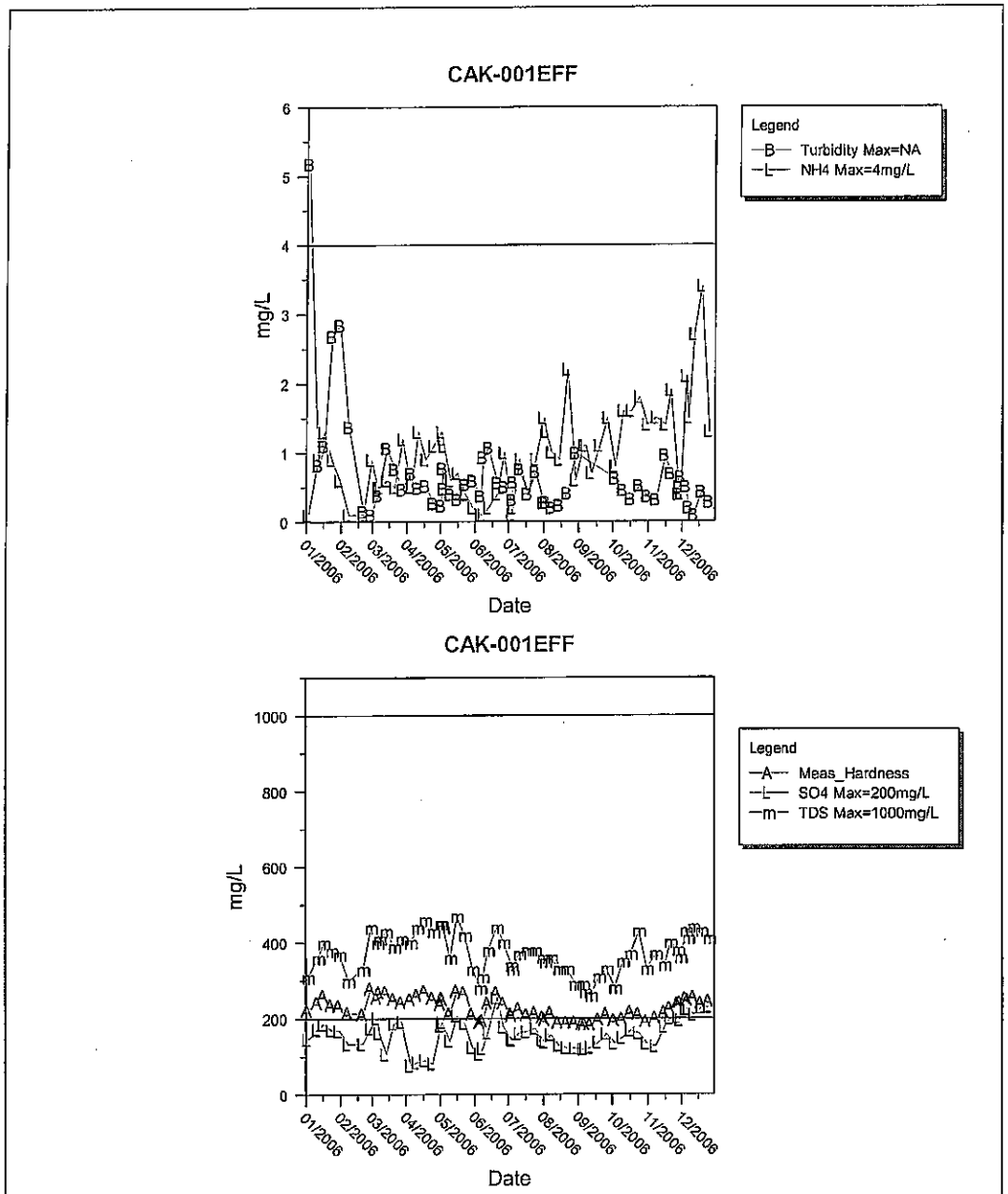
FIGURE 32





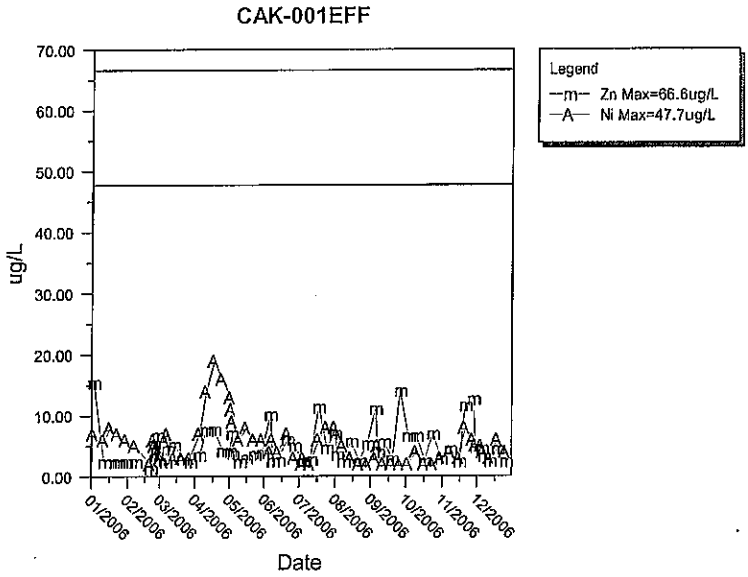
PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

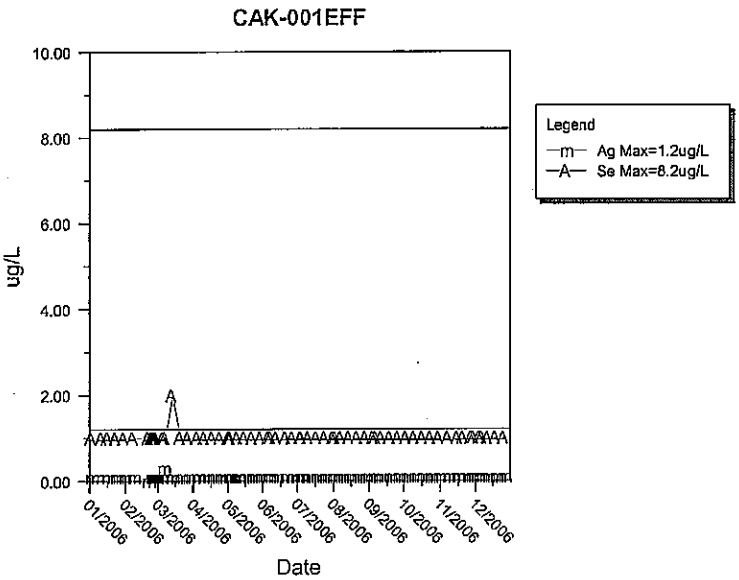
FIGURE 33



PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

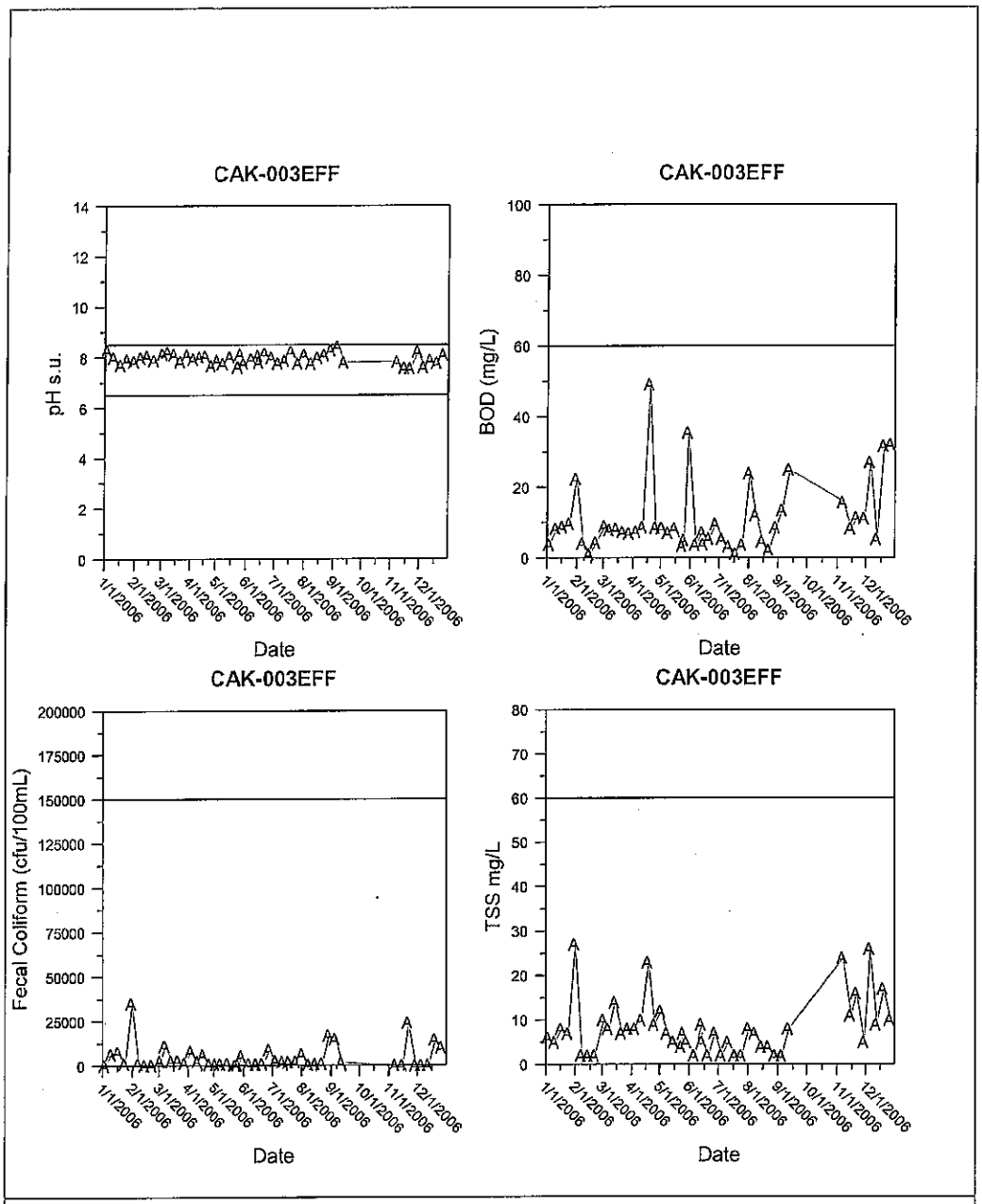
FIGURE 34





PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 35



PROJECT 2006 Annual Hydrologic Report		
COEUR ALASKA KENSINGTON GOLD MINE	PROJECT: Kensington Gold Project	PROJECT NO:
	CLIENT: Coeur Alaska, Inc.	DATE: January 2006

FIGURE 36

Appendix A – Duplicate Comparison

Parameter	Unit	Sample1	Sample2	Mean	diff	% diff	>20%?
Sample ID		CAK-SH112d-20060801	CAK-SH112-20060801				
Sampling Date		8/1/2006	8/1/2006				
Analysis Date							
Project							
Water Type		Ca-SO4	Ca-SO4				
shortWatertype							
Comment							
Reference							
Quality control							
Duplicate_ID		CAK-SH112d-20060801	CAK-SH112d-20060801				
Lab Code							
Ag	ug/l	0.1	0.1	0.1	0	0	-
Al	ug/l	2	1	1.5	1	66.7	Yes
As	ug/l	2.5	2.5	2.5	0	0	-
Cd	ug/l	0.1	0.1	0.1	0	0	-
Cl	mg/l	1	1	1	0	0	-
El. Conductivity	uS/cm		79.9				-
Cr	ug/l	2.5	2.5	2.5	0	0	-
Cu	ug/l	1	1	1	0	0	-
Dissolved Oxygen	mg/l		11.21				-
Fe	mg/l	0.05	0.05	0.05	0	0	-
Hg	ug/l	0.001	0.0021	0.00155	-0.0011	71	Yes
Measured Hardness	mg/l	30	30	30	0	0	-
Mn	mg/l	1	1	1	0	0	-
NH4	mg/l	0.1	0.1	0.1	0	0	-
Ni	ug/l	1	1	1	0	0	-
NO3	mg/l	0.12	0.12	0.12	0	0	-
Pb	ug/l	0.16	0.16	0.16	0	0	-
pH			7.39				-
SO4	mg/l	8.2	8.1	8.15	0.09999943	1.2	-
Total Dissolved Solids	mg/l	60	50	55	10	18.2	-
Temperature	°C		8.3				-
Total Suspended Solids	mg/l	5	5	5	0	0	-
Turbidity	NTU		0.12				-
Zn	ug/l	4.1	2.5	3.3	1.6	48.5	Yes
Selenium	ug/l	1	1	1	0	0	-
Color	unit	7	15	11	-8	72.7	Yes

Parameter	Unit	Sample1	Sample2	Mean	diff	% diff	>20%?
Sample ID		CAK-SLAd-20060405	CAK-SLA-20060405				
Sampling Date		4/5/2006	4/5/2006				
Analysis Date							
Project							
Water Type		Ca-Mn	Ca-Mn				
shortWatertype							
Comment							
Reference							
Quality control							
Duplicate_ID		CAK-SLAd-20060405	CAK-SLAd-20060405				
Lab Code							
Ag	ug/l	0.1	0.1	0.1	0	0	-
Al	ug/l	60	63	61.5	-3	4.9	-
As	ug/l	2.5	2.5	2.5	0	0	-
Cd	ug/l	0.1	0.1	0.1	0	0	-
Cl	mg/l	1	1	1	0	0	-
El. Conductivity	uS/cm		76.6				-
Cr	ug/l	2.5	2.5	2.5	0	0	-
Cu	ug/l	1	1	1	0	0	-
Dissolved Oxygen	mg/l		12.47				-
Fe	mg/l	0.11	0.11	0.11	0	0	-
Measured Hardness	mg/l	30	30	30	0	0	-
Mn	mg/l	8	5	6.5	3	46.2	Yes
NH4	mg/l	0.1	0.1	0.1	0	0	-
Ni	ug/l	1	1	1	0	0	-
NO3	mg/l	0.06	0.05	0.055	0.009999998	18.2	-
Pb	ug/l	0.16	0.16	0.16	0	0	-
pH			7.17				-
SO4	mg/l	2	0.1	1.05	1.9	181	Yes
Total Dissolved Solids	mg/l	60	50	55	10	18.2	-
Temperature	°C		1.3				-
Total Suspended Solids	mg/l	5	5	5	0	0	-
Turbidity	NTU		0.83				-
Zn	ug/l	2.5	2.5	2.5	0	0	-
Selenium	ug/l	1	1	1	0	0	-
Color	unit	41	43	42	-2	4.8	-
							-

Parameter	Unit	Sample1	Sample2	Mean	diff	% diff	>20%?
Sample ID		CAK-SLCd-20060705	CAK-SLC-20060705				
Sampling Date		7/5/2006	7/5/2006				
Analysis Date							
Project							
Water Type		Ca	Ca				
shortWatertype							
Comment							
Reference							
Quality control							
Duplicate_ID		CAK-SLCd-20060705	CAK-SLCd-20060705				
Lab Code							
Ag	ug/l	0.1	0.1	0.1	0	0	-
Al	ug/l	21	22	21.5	-1	4.7	-
As	ug/l	2.5	2.5	2.5	0	0	-
Cd	ug/l	0.1	0.1	0.1	0	0	-
Cl	mg/l	1	1	1	0	0	-
El. Conductivity	uS/cm	112.9	112.9	112.9	0	0	-
Cr	ug/l	2.5	2.5	2.5	0	0	-
Cu	ug/l	1	1	1	0	0	-
Dissolved Oxygen	mg/l	10.09	10.09	10.09	0	0	-
Fe	mg/l	0.29	0.29	0.29	0	0	-
Hg	ug/l	0.0027	0.0027	0.0027	0	0	-
Measured Hardness	mg/l	40	50	45	-10	22.2	Yes
Mn	mg/l	1	2	1.5	-1	66.7	Yes
NH4	mg/l	0.1	0.1	0.1	0	0	-
Ni	ug/l	1	1	1	0	0	-
NO3	mg/l	0.09	0.12	0.105	-0.02999999	28.6	Yes
Pb	ug/l	0.16	0.16	0.16	0	0	-
pH		8.11	8.11	8.11	0	0	-
SO4	mg/l	2.7	2.8	2.75	-0.0999999	3.6	-
Total Dissolved Solids	mg/l	70	60	65	10	15.4	-
Temperature	°C	15.1	15.1	15.1	0	0	-
Total Suspended Solids	mg/l	5	5	5	0	0	-
Turbidity	NTU	0.74	0.75	0.745	-0.00999999	1.3	-
Zn	ug/l	2.5	2.5	2.5	0	0	-
Selenium	ug/l	1	1	1	0	0	-
Color	unit	34	39	36.5	-5	13.7	-

Parameter	Unit	Sample1	Sample2	Mean	diff	% diff	>20%?
Sample ID		CAK-SLCd-20061004	CAK-SLC-20061004				
Sampling Date		10/4/2006	10/4/2006				
Analysis Date							
Project							
Water Type		Ca	Ca-Mn				
shortWatertype							
Comment							
Reference							
Quality control							
Duplicate_ID		CAK-SLCd-20061004	CAK-SLCd-20061004				
Lab Code							
Ag	ug/l	0.1	0.1	0.1	0	0	-
Al	ug/l	103	133	118	-30	25.4	Yes
As	ug/l	2.5	2.5	2.5	0	0	-
Cd	ug/l	0.1	0.1	0.1	0	0	-
Cl	mg/l	1	1	1	0	0	-
El. Conductivity	uS/cm		52.7				-
Cr	ug/l	2.5	2.5	2.5	0	0	-
Cu	ug/l	1	1	1	0	0	-
Dissolved Oxygen	mg/l		11.8				-
Fe	mg/l	0.13	0.13	0.13	0	0	-
Hg	ug/l	0.0038	0.0037	0.00375	0.0001	2.7	-
Measured Hardness	mg/l	20	20	20	0	0	-
Mn	mg/l	1	3	2	-2	100	Yes
NH4	mg/l	0.1	0.1	0.1	0	0	-
Ni	ug/l	1	1	1	0	0	-
NO3	mg/l	0.05	0.05	0.05	0	0	-
Pb	ug/l	0.16	0.16	0.16	0	0	-
pH			7.11				-
SO4	mg/l	1.5	1.5	1.5	0	0	-
Total Dissolved Solids	mg/l	30	30	30	0	0	-
Temperature	°C		7.4				-
Total Suspended Solids	mg/l	8	5	6.5	3	46.2	Yes
Turbidity	NTU	8.3	12	10.15	-3.7	36.5	Yes
Zn	ug/l	4.2	11.1	7.65	-6.900001	90.2	Yes
Selenium	ug/l	1	1	1	0	0	-
Color	unit	130	130	130	0	0	-

Parameter	Unit	Sample1	Sample2	Mean	diff	% diff	>20%?
Sample ID		CAK-001EFF-20061031	CAK-001EFFd-20061031				
Sampling Date		10/31/2006	10/31/2006				
Analysis Date							
Project							
Water Type		Ca-Mn-SO4	Ca-Mn-SO4				
shortWatertype							
Comment							
Reference							
Quality control							
Duplicate_ID		CAK-001EFFd-20061031	CAK-001EFFd-20061031				
Lab Code							
Ag	ug/l	0.1	0.1	0.05	0	0	-
Al	ug/l	10	8	9	2	22.2	Yes
As	ug/l	2.5	2.5	1.25	0	0	-
Cd	ug/l	0.1	0.1	0.05	0	0	-
Cr	ug/l	2.5					-
Cu	ug/l	1	1	0.5	0	0	-
Dissolved Oxygen	mg/l	11.82					-
Fe	mg/l	0.1	0.09	0.095	0.009999998	10.5	-
Hg	ug/l	0.001	0.001	0.0005	0	0	-
Measured Hardness	mg/l	193	193	193	0	0	-
Mn	mg/l	23	21	22	2	9.1	-
NH4	mg/l	1.4	1.4	1.4	0	0	-
Ni	ug/l	3	3	3	0	0	-
NO3	mg/l	3.41	3.27	3.34	0.1400001	4.2	-
Pb	ug/l	0.16	0.16	0.08	0	0	-
SO4	mg/l	134	135	134.5	-1	0.7	-
Total Dissolved Solids	mg/l	330	310	320	20	6.3	-
Temperature	°C	5.1					-
Turbidity	NTU	0.36					-
Zn	ug/l	2.9	2.7	2.8	0.2	7.1	-
Selenium	ug/l	1	1	0.5	0	0	-

Parameter	Unit	Sample1	Sample2	Mean	diff	% diff	>20%?
Sample ID		CAK-JS2d-20060306	CAK-JS-2-20060306				
Sampling Date		3/6/2006	3/6/2006				
Analysis Date							
Project							
Water Type		Ca	Ca-Mn				
shortWatertype							
Comment							
Reference							
Quality control							
Duplicate_ID		CAK-JS2d-20060306	CAK-JS2d-20060306				
Lab Code							
Ag	ug/l	0.1	0.1	0.1	0	0	-
Al	ug/l	1	1	1	0	0	-
As	ug/l	2.5	2.5	2.5	0	0	-
Cd	ug/l	0.1	0.1	0.1	0	0	-
Cl	mg/l	1	1	1	0	0	-
El. Conductivity	uS/cm		37.5				-
Cr	ug/l	2.5	2.5	2.5	0	0	-
Cu	ug/l	1	1	1	0	0	-
Dissolved Oxygen	mg/l		12.12				-
Fe	mg/l	0.05	0.05	0.05	0	0	-
Hg	ug/l		0.00025				-
Measured Hardness	mg/l	20	20	20	0	0	-
Mn	mg/l	1	2	1.5	-1	66.7	Yes
NH4	mg/l	0.1	0.1	0.1	0	0	-
Ni	ug/l	1	1	1	0	0	-
NO3	mg/l	0.16	0.18	0.17	-0.02000001	11.8	-
Pb	ug/l	0.17	0.16	0.165	0.01000001	6.1	-
pH			7.11				-
SO4	mg/l	1.9	1.9	1.9	0	0	-
Total Dissolved Solids	mg/l	30	20	25	10	40	Yes
Temperature	°C		3.3				-
Total Suspended Solids	mg/l	5	5	5	0	0	-
Turbidity	NTU		0.19				-
Zn	ug/l	3.4	3.2	3.3	0.2	6.1	-
Selenium	ug/l	1	1	1	0	0	-
Color	unit	5	5	5	0	0	-

Parameter	Unit	Sample1	Sample2	Mean	diff	% diff	>20%?
Sample ID		CAK-JS4d-20061204	CAK-JS4-20061204				
Sampling Date		12/4/2006	12/4/2006				
Analysis Date							
Project							
Water Type		Ca-Mn					
shortWatertype							
Comment							
Reference							
Quality control							
Duplicate_ID		CAK-JS4d-20061204					
Lab Code							
Ag	ug/l	0.1	0.1	0.1	0	0	-
Al	ug/l	10	11	10.5	-1	9.5	-
As	ug/l	2.5	2.5	2.5	0	0	-
Cd	ug/l	0.1	0.1	0.1	0	0	-
Cl	mg/l	1	1	1	0	0	-
El. Conductivity	uS/cm		120.8				-
Cr	ug/l	2.5	2.5	2.5	0	0	-
Cu	ug/l	1	1	1	0	0	-
Dissolved Oxygen	mg/l		11.91				-
Fe	mg/l	0.05	0.05	0.05	0	0	-
Hg	ug/l	0.001	0.001	0.001	0	0	-
Measured Hardness	mg/l	60	60	60	0	0	-
Mn	mg/l	13	14	13.5	-1	7.4	-
NH4	mg/l	0.2	0.1	0.15	0.1	66.7	Yes
Ni	ug/l	1	1	1	0	0	-
NO3	mg/l	0.31	0.31	0.31	0	0	-
Pb	ug/l	0.16	0.16	0.16	0	0	-
pH			7.82				-
SO4	mg/l	8	8	8	0	0	-
Total Dissolved Solids	mg/l	70	70	70	0	0	-
Temperature	°C		2.2				-
Total Suspended Solids	mg/l	5	5	5	0	0	-
Turbidity	NTU	0.3	0.26	0.28	0.04000002	14.3	-
Zn	ug/l	2.5	3.1	2.8	-0.5999999	21.4	Yes
Selenium	ug/l	1	1	1	0	0	-
Color	unit	5	5	5	0	0	-

Parameter	Unit	Sample1	Sample2	Mean	diff	% diff	>20%?
Sample ID		CAK-SH105d-20060502	CAK-Sh-105-20060502				
Sampling Date		5/2/2006	5/2/2006				
Analysis Date							
Project							
Water Type		Ca-SO4	Ca-SO4				
shortWatertype							
Comment							
Reference							
Quality control							
Duplicate_ID		CAK-SH105d-20060502	CAK-SH105d-20060502				
Lab Code							
Ag	ug/l	0.1	0.1	0.1	0	0	-
Al	ug/l	19	32	25.5	-13	51	Yes
As	ug/l	2.5	2.5	2.5	0	0	-
Cd	ug/l	0.1	0.1	0.1	0	0	-
Cl	mg/l	2	2	2	0	0	-
El. Conductivity	uS/cm		112.3				-
Cr	ug/l	2.5	2.5	2.5	0	0	-
Cu	ug/l	1	1	1	0	0	-
Dissolved Oxygen	mg/l		12.95				-
Fe	mg/l	0.05	0.07	0.06	-0.02	33.3	Yes
Hg	ug/l	0.0017	0.0017	0.0017	0	0	-
Measured Hardness	mg/l	50	40	45	10	22.2	Yes
Mn	mg/l	1	2	1.5	-1	66.7	Yes
NH4	mg/l	0.1	0.1	0.1	0	0	-
Ni	ug/l	1	1	1	0	0	-
NO3	mg/l	0.27	0.32	0.295	-0.04999998	16.9	-
Pb	ug/l	0.16	0.16	0.16	0	0	-
pH			7.27				-
SO4	mg/l	10.3	10.3	10.3	0	0	-
Total Dissolved Solids	mg/l	70	100	85	-30	35.3	Yes
Temperature	°C		3.1				-
Total Suspended Solids	mg/l	5	5	5	0	0	-
Turbidity	NTU		1.71				-
Zn	ug/l	2.5	2.5	2.5	0	0	-
Selenium	ug/l	1	1	1	0	0	-
Color	unit	12	13	12.5	-1	8	-

Parameter	Unit	Sample1	Sample2	Mean	diff	% diff	>20%?
Sample ID		CAK-SH105d-20060606	CAK-Sh-105-20060606				
Sampling Date		6/6/2006	6/6/2006				
Analysis Date							
Project							
Water Type		Ca-SO4	Ca-SO4				
shortWatertype							
Comment							
Reference							
Quality control							
Duplicate_ID		CAK-SH105d-20060606	CAK-SH105d-20060606				
Lab Code							
Ag	ug/l	0.1	0.1	0.1	0	0	-
Al	ug/l	8	8	8	0	0	-
As	ug/l	2.5	2.5	2.5	0	0	-
Cd	ug/l	0.1	0.1	0.1	0	0	-
Cl	mg/l	1	1	1	0	0	-
El. Conductivity	uS/cm	70.4	70.4	70.4	0	0	-
Cr	ug/l	2.5	2.5	2.5	0	0	-
Cu	ug/l	1	1	1	0	0	-
Dissolved Oxygen	mg/l	11.83	11.83	11.83	0	0	-
Fe	mg/l	0.05	0.05	0.05	0	0	-
Hg	ug/l	0.002	0.001	0.0015	0.001	66.7	Yes
Measured Hardness	mg/l	30	30	30	0	0	-
Mn	mg/l	1	1	1	0	0	-
NH4	mg/l	0.1	0.1	0.1	0	0	-
Ni	ug/l	1	1	1	0	0	-
NO3	mg/l	0.1	0.1	0.1	0	0	-
Pb	ug/l	0.16	0.16	0.16	0	0	-
pH		8.48	8.48	8.48	0	0	-
SO4	mg/l	4.8	4.8	4.8	0	0	-
Total Dissolved Solids	mg/l	80	60	70	20	28.6	Yes
Temperature	°C	5.5	5.5	5.5	0	0	-
Total Suspended Solids	mg/l	5	5	5	0	0	-
Turbidity	NTU	0.55	0.79	0.67	-0.24	35.8	Yes
Zn	ug/l	2.5	2.5	2.5	0	0	-
Selenium	ug/l	1	1	1	0	0	-
Color	unit	11	8	9.5	3	31.6	Yes

Appendix B – Flow Summary Report

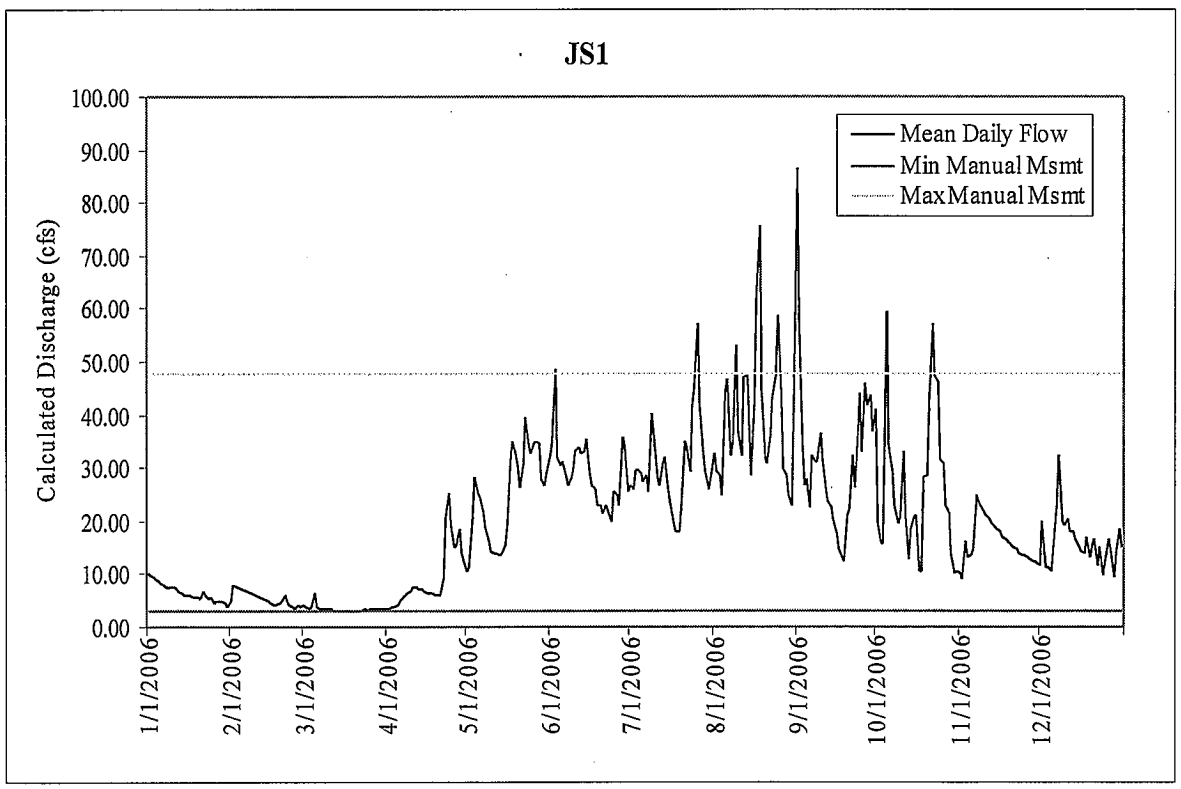
The Kensington Gold Project, Juneau, Alaska currently maintains flow stations on Johnson, Slate and Sherman Creeks for the purpose of collecting continuous flow data.

As shown on the map in Figure 4, Station JS1 is located on Johnson Creek in the area of the temporary mine camp. Station SLA is located on Slate Creek approximately 100 meters downstream of Lower Slate Lake. Station SH105 is located approximately 50 meters upstream of the mouth of Sherman Creek.

Each flow station is monitored by a water stage data logger (pressure transducer) that collects pressure measurements at 15 minutes intervals, and at least monthly visits by environmental personnel to manually measure stream discharge and water level height (staff gage).

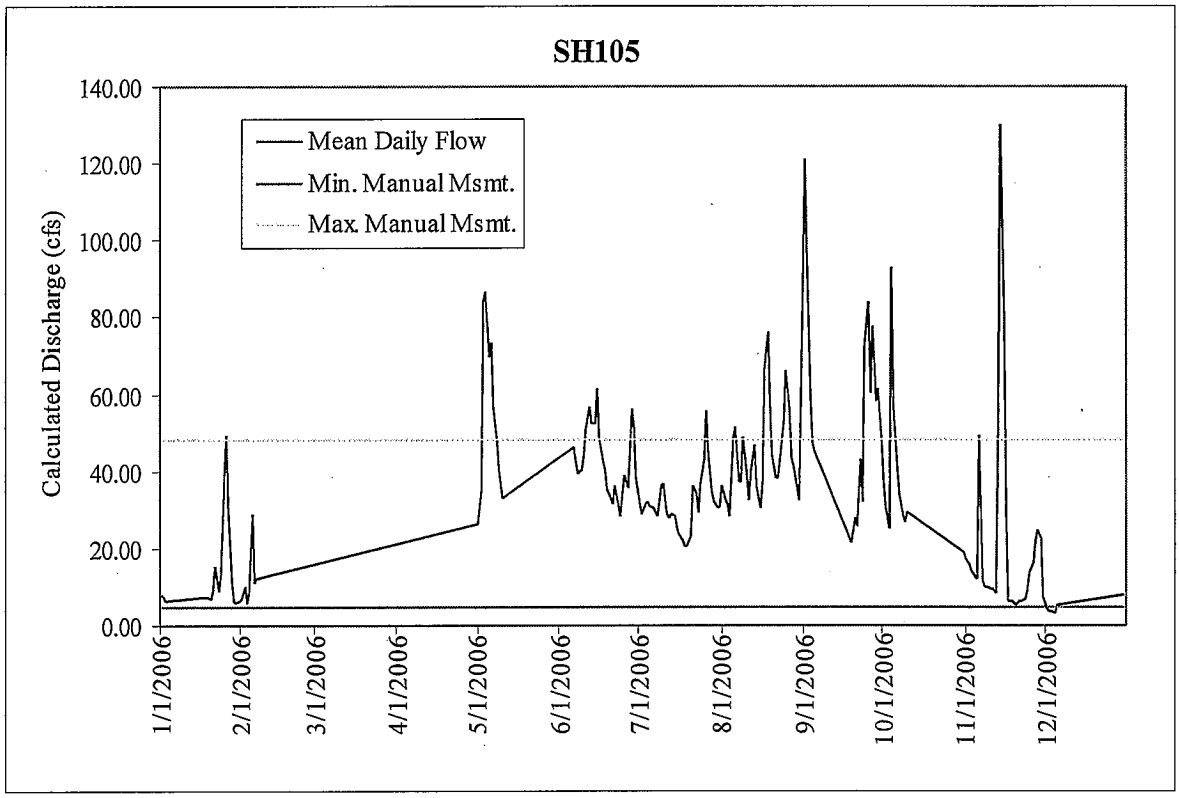
The hydrographs presented in Figures 1-3 display calculated mean daily flows for Johnson, Slate and Sherman Creeks during 2006. Mean daily flows are based on data from continuous in-stream pressure transducers. Calculated discharges outside the range of measured discharges should be considered extrapolated.

Figure 1: Hydrograph displaying Mean Daily Flows at flow station on Johnson Creek



Station JS1 on Johnson Creek had the most attention of all the flow stations with frequent maintenance visits and manual discharge measurements. During 2006, a total of 25 manual measurements were conducted at JS1 with flows ranging from 3.19 cfs to 47.84 cfs. The cross section remained relatively free of ice coverage during most of the year, enabling low flow manual measurements. Continuous transducer pressure data was available the entire year with the exception of 13 days in February (2/3 thru 2/15). Thus, the calculated discharges based on actual pressure transducer data constitute approximately 96.4% of the mean daily flows displayed in the above graph.

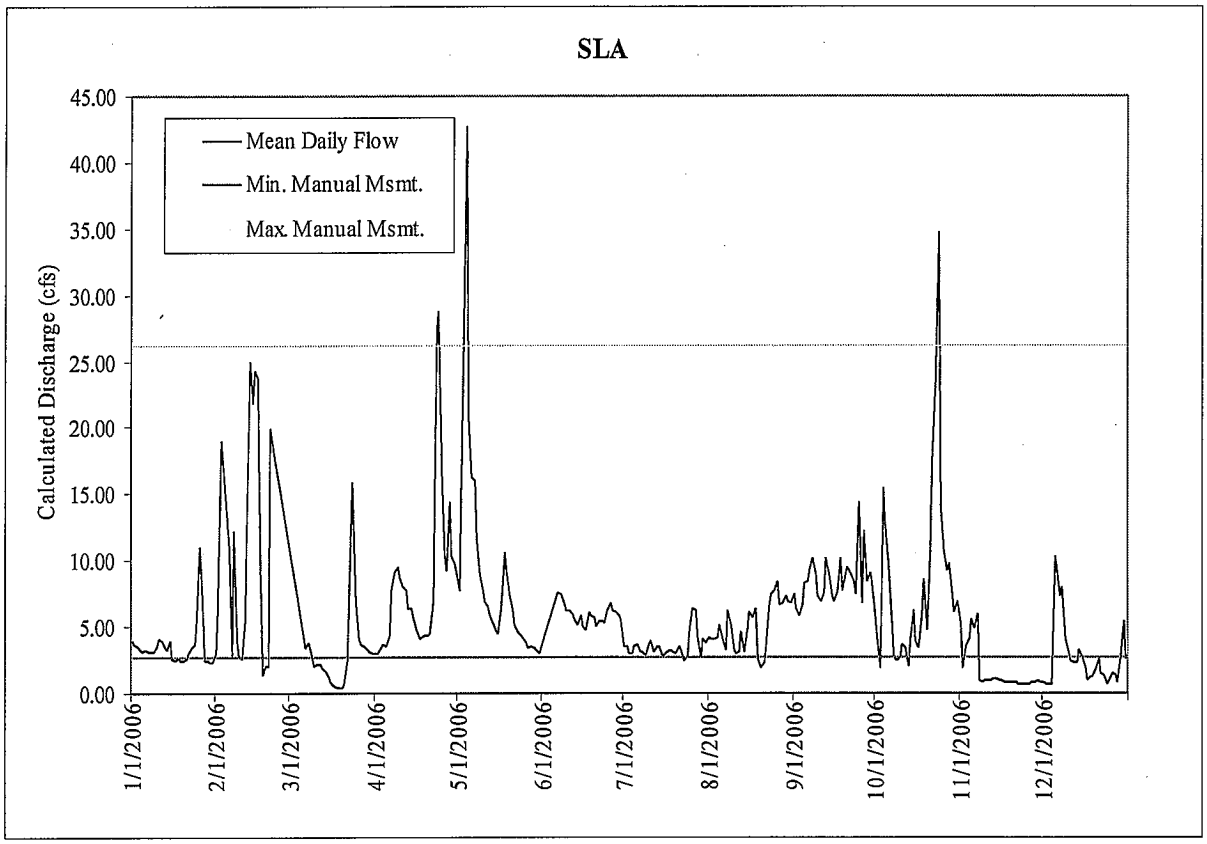
Figure 2: Hydrograph displaying Mean Daily Flows at flow station on Sherman Creek



Station SH105 on Sherman Creek was especially plagued with transducer malfunctions and washouts during 2006. The transducer used at this site was replaced twice and finally relocated adjacent to the staff gage in a more protected location. As a result of these problems, the calculated discharges based on actual pressure transducer data constitute approximately 50% of the mean daily flows displayed in the above graph. The greatest number of consecutive days during which the transducer was inoperable occurred between 2/8 and 4/30. Other times in which continuous data was unavailable

include 5/10 to 6/6 and 12/5 to 12/30. Therefore, the mean daily flows for these time periods should be considered extrapolated.

Figure 3: Hydrograph displaying Mean Daily Flows at flow station on Slate Creek



Station SLA on Slate Creek experienced freezing conditions much of the winter which prevented low flow manual discharge measurements. During 2006, a total of 8 manual measurements were conducted at SLA with flows ranging from 2.65 cfs to 26.13 cfs. Continuous transducer pressure data was available the entire year with the exception of 6 days in June (6/1 to 6/6). 14 days of flow data were removed due to erroneous data. Thus, the calculated discharges based on actual pressure transducer data constitute approximately 94.5% of the mean daily flows displayed in the above graph.

Figure 4: Stream flow monitoring sites on Sherman, Slate and Johnson Creeks.