

FINAL REPORT

AUSJAM GOLD MINE
SODIUM CYANIDE REMEDIATION

Submitted to
NATIONAL ENVIRONMENT AND PLANNING AGENCY
10 Caledonia Ave
Kingston 5



Taking Care of You and Your Environment.

JANUARY 2012

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10 Caledonia Ave
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1.0 BACKGROUND

AusJam Mining Limited is a gold mining facility located in Main Ridge, Clarendon. This is approximately 4 kilometres west of Pennants or 10 kilometres north-west of Chapleton (Figure 1). Activities on the site have been halted since 2003 but no closure activities were effected.

According to AusJam approximately 10 tonnes of sodium cyanide is currently stored at the facility. The storage of the substance is of concern to the National Environment and Planning Agency (NEPA) as it is a potential threat to public health and a potential environmental hazard. Sodium cyanide is a colourless, highly toxic, corrosive inorganic compound that is mainly used in gold mining operations.

The owners of the site no longer reside in Jamaica. However contact can be made via Mines & Geology Division (MGD), Ministry of Energy & Mining.

On July 10th, 2011 NEPA received a report from the Area 3 Control of the Jamaica Constabulary Force (JCF) concerning a leak from an above ground storage tank existing on the property. Upon receiving the report a multiagency team visited the site to investigate the breaches reported. Based on observations it became a priority that a complete site characterization be undertaken in order to determine the extent of the chemical contamination at the said location.

As an immediate-term action the Agency requires that the leak from the tank be abated and access to the area be restricted.

Further to an emergency meeting called by the Chief Executive Officer of NEPA on July 13th, 2011, a firm of consultants were engaged under emergency powers to support the priority action and longer term remediation of the site (Appendix 1).

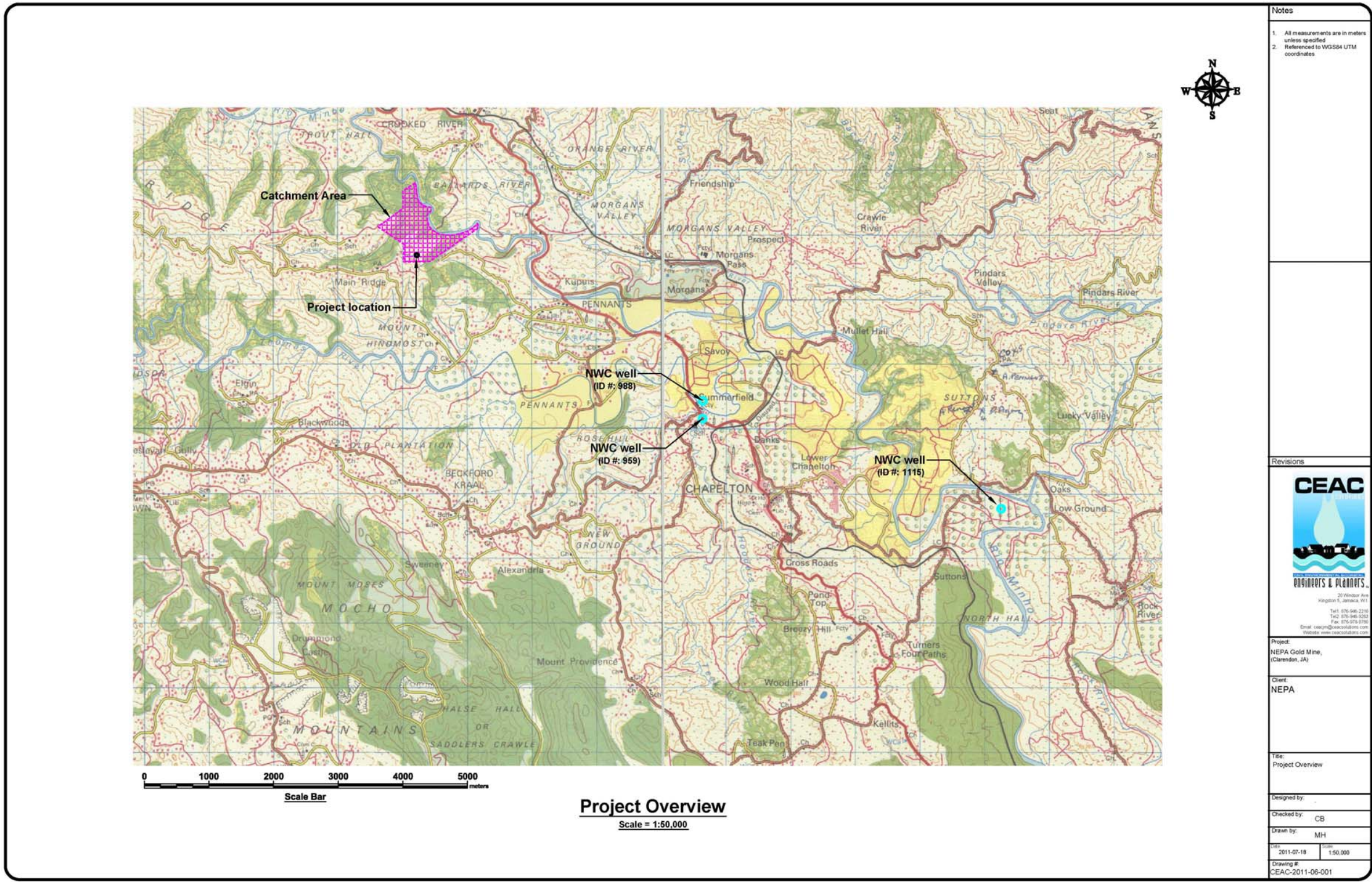


Figure 1 Map showing project location

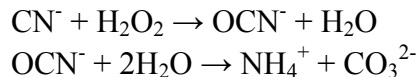
2.0 APPROACH AND METHODOLOGY

Prior to any treatment, a small containment tank with funnel was used to collect the existing leak, warning signs were placed around the property and 24 hour security personnel posted (Section 4.0).

A meeting was held on Wednesday July 13th, 2011 at the Jamaica Environment Trust (JET) offices with Dr Glen Miller – Natural Resource & Environmental Science (College of Agriculture, Biotechnology and Natural Resources, Reno, Nevada) who happened to be in the island at the time on an unrelated issue with JET. Dr Miller has extensive experience and knowledge as it relates to the mining industry and in cyanide remediation. At this meeting the potential risks involved, sampling required and treatment options were discussed.

After the visit to the gold mine on Thursday July 14th, 2011, it was decided that the cyanide (CN⁻) contained in the processing tanks (a main tank and five smaller thickening tanks (T0-T4) (Plates 1 and 2) of about 250,000 and 5x20,000 litres capacity respectively should be treated with hydrogen peroxide according to the procedure defined in “Treatment technologies for cyanide and related compounds. Part I: cyanide destruction.” <http://premiu.informine.com/edumine>; accessed 7 July, 2011; and confirmed in other documents from the web.

The cyanide degradation reactions are:



with the latter reaction occurring slowly after the initial formation of the less toxic cyanate (OCN⁻) ion. The reaction can be catalysed with Cu²⁺ ions. The pH of the solution should be maintained above 9.2 to ensure HCN is not liberated from the liquor.

A closed loop pumping system was set up to pump liquor (existing solution and added hydrogen peroxide) from the main tank to T0 and from T3 back to the main tank with the liquor moving from T0 through T1 and T2 to T3 under gravity through existing piping, leaving from the surface of one tank and entering at about ¾ depth in the subsequent tank. It was found that leaks in the connections between T3 and T4 could not be contained so T4 was left out of the pumping loop. Initial CN⁻ concentrations in tanks T0-T4 were extremely low. (Tables 2, 5 and 6).

The polluted water collected from the containment bund was pumped back into the main tank for treatment. A sump was created to pool contaminated water in the bund and that collected water was also pumped back into the main tank for treatment.

Figure 2 illustrates the layout of the storage tanks and CN⁻ treatment system.

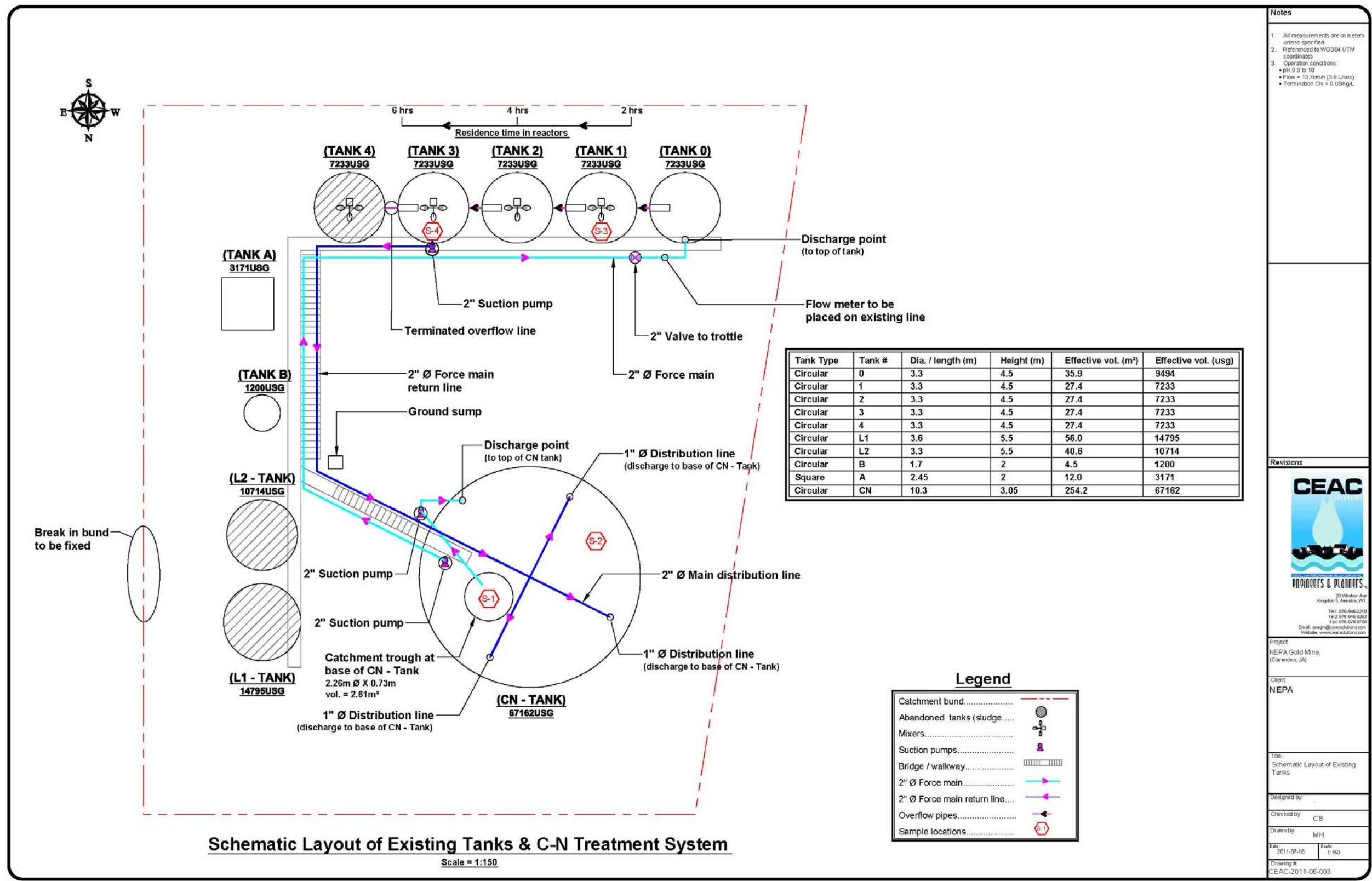


Figure 2 Schematic Layout of Storage Tanks and CN Treatment System



Plate 1 Photo showing Main Tank



Plate 2 Photo showing smaller tanks T0, T1, T2, T3 and T4 (out of view)

On July 22nd, 2011, the area with the major leak was welded (Plate 3), however there remained a very slow drip from the valve and some amount of “sweating” around the bolts (Plates 4-5) which at some point will most likely have a major failure and as such the owner should be required to repair it (it might mean emptying the tank). This valve has obviously been giving problems as evidenced by the “G” clamp that is being used with it (Plate 6). The initial treatment (Section 2.2.1) however, was done before this could be effected.



Plate 3 Photo showing where welding occurred



Plate 4 Photo showing leak/drip container

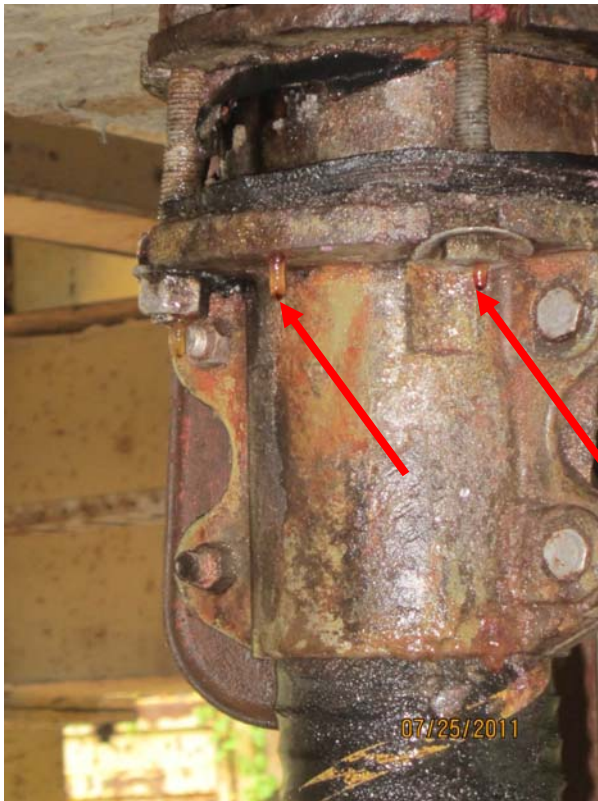


Plate 5 Photo showing minor dripping



Plate 6 Photo showing “G” Clamp on valve

2.1 Quantification/Cyanide Analysis

Cyanide in gold ore processing liquors can be quantified in three forms:

1. As free cyanide, i.e. cyanide present as the cyanide anion CN^- ,
2. As weak acid dissociable cyanide (WAD) which is the free cyanide plus complexed cyanide that can be liberated as free cyanide by treating the liquor with dilute acid; and
3. As total cyanide which is all of the cyanide in the liquor, i.e. that present as free cyanide plus WAD cyanide plus cyanide associated with suspended particles and dissolved metals in the liquor.

Sampling and Sample Treatment procedure

Samples were collected from the tanks at depths of about 20 cm and 0.2 g NaOH was added to maintain the high pH. Samples from liquors which had been treated with peroxide 5 mL of a 0.2 molar solution of sodium arsenite (NaAsO₂) were added to destroy any unreacted peroxide. All samples were stored on ice until delivered to the analytical laboratory.

Three laboratories were used in an attempt to assess the quality of the data. On some occasions co-located samples (samples taken within a minute of each other from approximately the same position within the same tank) were submitted to the laboratories without them knowing they were sampling duplicates (to laboratory 1 on 19th July from T1 and the 21st July 2011 from T2; 5.30 pm); to laboratory 3 on 25th July 2011 (3 samples from the main tank)). In addition on the 21st and 25th of July 2011 co-located samples were submitted to more than one laboratories.

2.1.1 Probable Initial Cyanide Concentrations

Liquor samples collected by NEPA personnel from the liquor leaking from the main tank and from one of the smaller tanks had been analysed by the Mines and Geology (MGD) laboratory. It was reported that the concentration in the leaking liquor was 400 mgCN/L and in the smaller tanks was 1.7 mgCN/L. It was assumed the analyses were for total cyanide. The pH of the liquor in the main tank was reported to be approximately 9.8. Formal analytical reports were not available at the time.

NEPA's NaCN inventory for the mine suggested that 1000 kg of NaCN was not accounted for but the mine owner indicated that approximately 600 kg of that NaCN had been used during normal plant operation and that the remaining 400 kg NaCN had been dumped into the main tank after the bag containing it was ruptured (about 2 years ago).

If 1000 kg NaCN had been dumped into the 250,000 L main tank then the expected CN⁻ concentration would be (total cyanide):

$[1000 \text{ (kg)} \times 1000 \text{ (g/kg)} \times (26/49 \text{ (CN/NaCN)}) / 250,000 \text{ (L)} \times 1000 \text{ (mg/g)}] \text{ mg CN/L (ppm)} = 2,100 \text{ ppm.}$

If only 400 kg NaCN had been dumped then the concentration would be 40% of that, i.e. 840 ppm (total cyanide). Both calculations assume no degradation of the CN⁻ over the two years since the NaCN had been dumped into the main tank.

Given these numbers and that some degradation would have occurred, the concentration in the leaking liquor reported by MGD seemed reasonable. Upon further investigation, it was found

that there was sludge in the bottom of the tank which could well contain high concentrations of CN^- and that that CN^- could be leached from the sediment during the treatment process (note also that this means that the volume of liquor in the main tank would be less than 250,000 L; see below for a more accurate estimate of the actual liquor volume). It was decided therefore to treat the liquor as though it was 600 ppm.

Samples were sent for separate independent analysis and experiments designed and carried out to estimate amenable CN^- based on use of H_2O_2 . Initial treatment was designed and H_2O_2 requirement estimated without further analytical data due to the urgency of the situation and the arrangement in place for release of data.

2.2 Hydrogen Peroxide (H_2O_2) Requirement

The stoichiometric amount of H_2O_2 required is 1.3 kg peroxide per kg of CN^- . The treatment process calls for using 2-8 kg H_2O_2 per kg CN^- . It was decided to use an approximately four fold excess of H_2O_2 (ie. 5 kg H_2O_2 per kg CN^-) and to monitor the CN^- concentration after each addition exercise.

At 600 ppm CN^- in 250,000 L the mass of H_2O_2 required would be 750 kg. The peroxide came as 50% peroxide in 228 kg drums (114 kg H_2O_2) so at this dosage rate approximately 7 drums of peroxide would be required.

2.2.1 Initial Series of Addition of H_2O_2

Since efficient mixing of the treatment chemical into the CN^- solution is an essential feature of the treatment process it was decided that the liquor contained in the tanks should be pumped around them and the H_2O_2 added slowly to one of the smaller tanks. The pumping process was arranged to be put in place and for the integrity of the smaller tanks to be tested prior to the start of pumping. It was found that leaks in the connections between T3 and T4 could not be contained so T4 was left out of the pumping loop. The pumping system was set up to pump liquor from the main tank to T0 and from T3 back to the main tank with the liquor moving from T0 through T1 and T2 to T3 under gravity through existing piping, leaving from the surface of one tank and entering at about $\frac{3}{4}$ depth in the subsequent tank. The process of rehabilitating the mixers on the tanks, electrical supply wiring and plumbing work was completed on Monday July 18th, 2011.

Once pumping started the amount of liquor in the main tank dropped by about 25%. The smaller tanks, however, were only partly full to start with which lead to the leak almost stopping.

On Monday July 18th, 2011 liquor samples were taken for analysis from the small tailings lake (Plates 7-8), the entombed spring water, small tanks T2 and T3, the main tank and the small tank that had been placed under the leak in the main tank. In addition a sample of liquor collected from the leak in the main tank was treated with peroxide under laboratory conditions to test the treatment process. One litre batches of liquor expected to contain approximately 600 mg CN⁻ each were treated with peroxide as indicated in Table 1. The field and laboratory samples were submitted for total CN⁻ analyses on the morning of Tuesday July 19th, 2011.



Plate 7 Photo showing tailing pond/lake 1



Plate 8 Photo showing tailing pond/lake 2

Table 1 Laboratory scale treatment of CN- contaminated liquor (volume of liquor used = 1L; assumed cyanide concentration 600 mg/L).

Initial Mass peroxide added	Mass of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	Hours of reaction time	Additional mass of peroxide added	Total hours of reaction time	Found [CN]* mgCN/L
0	0	0	0	0	225
2500 mg	0	2		2	448
2500 mg	0	2	1000 mg	16	2000
1500 mg	0	2		2	1075
1500 mg	0	2	1000 mg	16	545
500 mg	0	2		2	34.75
500 mg	0	2	1000 mg	16	515
1500 mg		2		2	998
1500 mg		2	1000 mg	16	1500

* Free CN: the results did not become available until after the planned treatment had been completed.

Early on Tuesday July 19th, the liquor that was in the containment bund under the processing tanks (presumably from rain water and the leak prior to that being caught in the small tank placed under the leak) was pumped back into the main tank and the soil in the area turned over and left to dry in the sun; a process that should allow for any cyanide in the soil to be degraded under the sun's radiation.

A trial addition of H₂O₂ to the Ausjam tanks was conducted on Tuesday July 19th over a 2.5 hour period. Liquor from the main tank was pumped to the thickening tanks and allowed to circulate throughout the system for two hours before the peroxide addition began. The liquor circulation rate was measured to be 13 L/sec giving a "liquor in small-tank" residence time of approximately 30 minutes. The H₂O₂ was added slowly from 20 L plastic containers to the liquor in T0 at the point where it flowed from T0 into T1 (Plate 9). The peroxide addition rate for the 5:1 H₂O₂:CN treatment of the liquor in a thickener tank therefore needed to be $(0.6 \text{ (g/L)} \times 1\text{kg}/1000 \text{ g} \times 20,000 \text{ L} \times 5 =) 60 \text{ kg H}_2\text{O}_2$ in 30 minutes; i.e. approximately 120 litres of 50% peroxide in 30 minutes. The initial procedure used proved to be more tedious and energy demanding than anticipated and only 60 litres were added over the 2.5 hour period (i.e. half the volume and 5 times longer than planned and so the treatment was at 0.5:1 rather than 5:1 H₂O₂:CN).

The pH of the liquor in T1 was monitored using a calibrated Hydrolab MS-5 multiprobe meter (Calibration certificate in Appendix 2) and remained at about 9.9 throughout the addition period. Liquor samples were collected on July 19th, from T0, T1, T2 and T3 at the end of the addition period and submitted to the analytical laboratory at 9.30 am the following morning. It was hoped that the data would be available on the evening of Wednesday July 20th, but they were not. No additional treatment was carried on July 20, in anticipation of the analytical results becoming available to permit optimizing of the process on Thursday July 21st.



Plate 9 Photo showing initial H₂O₂ addition process (July 19, 2011)

The peroxide addition was continued on Thursday July 21st, 2011 after modifying the addition procedure to include use of a larger dispensing container (50 L) and to allow easy regulation and estimation of the flow rate. This container was positioned above the T0 exit point and filled from the previously mentioned 20 litre containers (Plate 10). This addition (along with the erection of a canopy above the addition point) allowed for a more controlled and easily operated system. In the absence of analytical data from the laboratory experiments and the trial treatment the initial treatment plan was continued. An initial sample was collected from T0 and then the liquor circulation started. The peroxide addition began one hour after the start of the circulation and over a seven hour period, 228 kg of H₂O₂ was added (two drums of 50% H₂O₂). Samples were collected from T0, T1 and T2 at the end of the treatment on July 21st, 2011 and submitted to the laboratory at 9.00am on the morning of Friday July 22nd, 2011. The pH in T1, monitored throughout the day, slowly drifted down from 9.9 to about 9.5 and so 500 g NaOH was added to T0 to increase the pH. Approximately 100 g CuSO₄.5H₂O was added to T3 with the expectation that this could catalyse the continuing reaction. By the end of the day, a total of approximately 250 kg of H₂O₂ had been added; i.e. approximately a 1.7:1 H₂O₂.CN.



Plate 10 Photo showing subsequent H₂O₂ addition process (July 21, 2011)

By the evening of Thursday July 21st, 2011, the main tank had stopped leaking and a decision was taken to weld over the hole. This was successfully done on the morning Friday July 22nd, 2011 but liquor started to slowly seep from a joint in the pipe below the original leak. The repair can therefore only be considered to be temporary.

The peroxide treatment was continued on Friday July 22nd, 2011 with still no analytical data to guide the process. The peroxide addition began after about one hour of pumping with three drums of H₂O₂ being added over a six hour period (by the end of Friday a total of 570 kg of H₂O₂ had been added, or approximately 4:1 H₂O₂:CN, based on the initial calculations).

Pumping was continued for about 30 minutes after the completion of the addition. The pH gradually decreased from 9.9 to 9.7 over the addition period. Approximately 500 g NaOH was added to T0 towards the end of the addition period to raise the pH. The system was left to stand until Monday July 25th when another set of samples were taken for analysis.

2.2.2 Final Addition Process of H₂O₂

After reviewing the July 25th, 2011 data (see Table 2) and consultations with NEPA, it was decided that a further treatment was required. On August 9th, 2011, a further two, 228 kg drums of 50% peroxide were added over an eight hour period. The liquor circulation pattern was altered such that the liquor in the small tanks was not mixed with the main tank liquor (liquor was pumped from T3 to T0 and then flowed by gravity from T0 to T1, T2 and T3) while the main tank liquor was pumped from a point close to the sediment surface and discharged to three other well separated points within the main tank, one at the liquor surface, the other two at close to the sediment surface). Attempts to enhance the mixing in the tanks by manually agitating the sediment surfaces in T0 and the main tank were not very effective as the sediment was well compacted.

Eighty litres (2/3 of a drum; 75 kg H₂O₂) of peroxide was added to T0 over a 4 hour period as detailed above. One hundred and forty litres (1¹/₃ drums; 125 kg H₂O₂) were added to the main tank over a six hour period; additions were made at several points in the tank using the same addition technique as for the small tanks.

Samples for analysis were collected prior to agitating the liquor, after 2 hours of circulation, at the end of the day's treatment, and again on September 2nd, 2011.

A final sampling run was conducted on October 13th, 2011, whereby tests for gold and silver were conducted in addition to total and free cyanide.

All detailed laboratory results and test methods can be seen in Appendix 3.

3.0 RESULTS AND OBSERVATIONS

3.1 Observations during H₂O₂ addition

Initially the liquor was reddish-brown with some suspended solids. Once pumping started the amount of suspended solids increased slightly. After about an hour of adding H₂O₂ a surface coating of foam started to form on the liquor in T1. The amount of foam gradually increased to a height of about 10-15 cm, even higher if the addition rate was faster. The gas emerging from the liquor could have been oxygen (due to the disproportionation of the peroxide ($2\text{H}_2\text{O}_2 \rightarrow 2\text{H}_2\text{O} + \text{O}_2$)), NH₃ from the cyanate hydrolysis reaction ($\text{NH}_4^+ + \text{OH}^- \rightarrow \text{NH}_3 + \text{H}_2\text{O}$; see above) or HCN ($\text{CN}^- + \text{H}^+ \rightarrow \text{HCN}$) which can be produced if the pH drops below about 8.5. Care was therefore taken to minimize foaming by keeping the peroxide addition rate slow. The pH was also carefully monitored and was occasionally adjusted through addition of NaOH.

After three drums of peroxide had been added (about midday on Friday July 22nd, 2011) there was minimal foam forming and little or no evidence of reactions occurring. When the addition rate was increased a light coloured precipitate seemed to form at the addition point; possibly metal oxides precipitating in the basic conditions once the cyanide initially coordinated to the metals was destroyed.

By the end of the peroxide addition the liquor was a muddy brown colour with high levels of suspended solids, perhaps due to increased circulation rate.

When samples were collected on Monday July 25th, 2011 it was determined that the sediment level in the main tank was approximately a third of the height of the tank and so the liquor volume in the system was therefore only about 2/3rd of the initially predicted 250,000 L; meaning that the H₂O₂:CN weight ratio used to date was almost 6:1.

3.2 Sampling Results (pre, during, and post H₂O₂ addition)

The concentrations of cyanide in the samples (1 L) collected before, during and after treatment with H₂O₂ are presented in Table 2.

There was poor agreement between the total CN⁻ results reported by different laboratories for co-located samples. In some instances there were also major differences between the concentrations reported for similar samples when analysed by the same laboratory. For example, the CN⁻ concentration of a sample collected from the leak on 11th July, 2011 was verbally reported as 400 mgCN/L but the analytical result for a sample collected from the same leak a week later (18 July, 2011) and analysed by laboratory 1 was approximately five times higher (1,980 mgCN/L).

Subsequently, laboratory 1 withdrew that result and reported that the concentration was in fact 2500 mgCN/L. The difference between the laboratories may have been due to changes over the time between the sampling exercises. The concentrations reported by laboratories 1 and 2 for co-located samples collected on 21st July, 2011 also differ considerably (2,500 vs 1,500 and 35/350 vs 2,000 mgCN/L). The results from laboratories 1 and 3 for co-located samples collected from the main tank on July 25th, 2011 also differ (175 vs 30-40 mgCN/L) but for laboratory 3 there is good internal agreement (32, 43, 42 mgCN/L). For co-located samples, Laboratory 1 reports very different concentrations for samples from T2 on July 21st, 2011 but the agreement between samples from T1 on July 19th, 2011 is reasonable.

The analytical results from the laboratory based tests are from Laboratory 1. These results are difficult to accept as they suggest that the peroxide treatment process frequently led to an increase in CN⁻ concentration (from 225 mgCN/L in the initial solution; again this result is very different from the July 18, 2011 result of 775 mgCN/L), that the 500 mg treatment (approximately 1:1 H₂O₂:CN) was more effective than when excess peroxide was added and that the 16 hour treatments were less effective than the 2 hour treatments. Laboratory 1's poor internal agreement (co-located samples and unlikely data from the laboratory tests) and poor agreement with the other laboratories suggest that their data are unreliable and so have not been considered further.

Table 2 Total Cyanide analysis results (July 11, 18, 19, 21 and 25, 2011)

Sample Date	July 11th	July 18th	July 19th		July 21st				July 25th			
Sample Time		4:30pm	5:00pm		10:00am	5:30pm			8:00am			
Lab#	2	1	1	1	1	1	1	2	1	3	3	3
<u>Location</u>	Total CN (mg/l)											
Main Tank		775							175	32	43	42
Tank T0			223		300	2500		1500				
Tank T1			123	183		300				40		
Tank T2		1	82.5			35	350	2000				
Tank T3		0.33	21.25							31		
leak container	400*	1980										

* the verbally reported concentration from the July 11th sampling exercise.

Laboratory 3 is certified by the USA National Environmental Laboratory Accreditation Conference (NELAC) to have in place a quality management system. In addition, they supplied quality control data that showed that they gained good agreement when they analysed blanks (both not detectable), laboratory control samples (0.346 vs 0.344; 17.3 vs 17.8; 0.346 vs 0.375 mgCN/L) and matrix-spiked samples (a known amount of CN⁻ added to a submitted sample: 11.7

vs 11.8; 11.7 vs 11.2 mgCN/L). Their results also showed good agreement for blind co-located samples (i.e. they did not know they were sampling duplicates) submitted to them (Table 3). The interpretation of the effectiveness of the peroxide treatment is therefore based on the results from laboratory 3. Neither of the other laboratories (lab 1 and 2) supplied quality control data.

Unfortunately there were no results available from any laboratory to guide us during the first three days of treatment. The results from the July 25th, 2011 sampling after the addition of five 228 kg containers of 50% hydrogen peroxide (approximately 6:1 H₂O₂:CN given the liquor volume adjusted for the sediment volume) show that the concentrations in all tanks were approximately the same (30-40 mgCN/L) and at least ten times less than the initially thought concentration (400 mgCN/L) and fifty times less than the more probable 2,000 mgCN/L.

The samples collected on July 25th, 2011, which included some sediment (main tank) and soils (surrounding area), were analysed (laboratory 3) for other parameters in addition to CN (Table 3).

The liquor temperature (Temp), conductivity (Cond), pH, dissolved oxygen (DO), turbidity (Turb) and total dissolved solids (TDS) were determined at the time of sampling using a Hydrolab MS-5 water quality probe. These data show that the conductivity and therefore the dissolved solids (TDS is calculated from conductivity) is high (tap water is normally about 0.5 mS/cm) as expected given the sodium and other ions present in the liquor. The pH remained high during the treatment, the DO remained super-saturated (ambient water is normally about 8 mg/L) over the 3 days following the treatment and the high turbidity indicates the presence of suspended solids.

Total Petroleum Hydrocarbons (TPH) were not detected in either the liquor or the solids. The concentrations of the metals in the liquor were lower than the NEPA trade effluent standard except for copper (standard 0.1 mg/L) which would meet the standard with a 10-fold dilution.

The concentrations of CN⁻ in all but tailing pond 1 (now returned to pasture land) are elevated, particularly in the main tank sediment from which it could be released back into the liquor in the tank. Concentrations of the metals in the solids are all very low compared to the concentrations in Jamaican soils (As – average 25, range 1.4 – 203, 95% < 64.9 mg/kg; Cd – average 20, range 0.2 – 409, 95% < 77.6 mg/kg; Cu – average 203, range 14 - 657, 95% < 229 mg/kg Hg – average 0.2, range 0.04 – 0.83, 95% < 0.46 mg/kg; Pb - average 46.5, range 6 – 897, 95% < 90 mg/kg; Zn - . average 203, range 54 - 936, 95% < 513 mg/kg) A geochemical Atlas of Jamaica, Centre for Nuclear Sciences, UWI, 1995, Canoe Press).

Table 3 Detailed Results from July 25th, 2011 sampling exercise

LOCATION	DEPTH (m)	TEMP (oC)	COND (mS/cm)	SAL (ppt)	PH	D.O. (mg/l)	TURB (NTU)	TDS (g/l)	Total Cyanide (mg/l)	TPH (mg/l)	Arsenic (mg/l)	Cadmium (mg/l)	Mercury (mg/l)	Lead(mg/l)	Zinc(mg/l)	Copper(mg/l)
Main Tank 1	surface	26.28	2.74	1.48	9.86	27.35	661	1.75	32	ND	0.013	ND	ND	0.025	0.11	0.38
	1m	26.53	2.74	1.48	9.86	27.36	637	1.75								
Main Tank 2	surface	26.56	2.73	1.48	9.86	26.2	686	1.752	43	ND	0.013	ND	ND	0.026	0.11	0.52
	1m	26.62	2.747	1.48	9.84	23.28	715	1.752								
Main Tank 3	surface	27.23	2.729	1.47	9.9	27.58	655	1.756	42	ND	0.011	ND	ND	0.025	0.077	0.4
	1m	26.61	2.743	1.48	9.84	26.63	694	1.756								
Tank T1	surface	27.27	2.74	1.48	9.89	26.84	681	1.76	40	ND	0.013	ND	ND	0.029	0.1	0.94
	1m	27.31	2.75	1.48	9.89	20.74	695	1.76								
	2m	27.29	2.75	1.48	9.89	20.16	656	1.76								
	3m	27.28	2.75	1.48	9.88	19.57	668	1.76								
Tank T3	surface	27.31	2.74	1.48	9.89	26.99	699	1.75	31	ND	0.013	ND	0.00023	0.029	0.12	0.55
	1m	27.34	2.75	1.48	9.86	25.19	746	1.75								
	2m	27.34	2.74	1.48	9.84	24.24	699	1.75								
	3m	27.3	2.75	1.48	9.87	23.82	744	1.76								
	4m	27.19	2.74	1.48	9.9	24	723	1.764								
Tailing Pond 1	surface	26.82	0.26	0.12	8.64	4.86	35.3	0.167	0.024	ND	ND	ND	ND	ND	ND	ND
Tailing Pond 2	surface	26.7	0.245	0.12	8.34	7.41	102.8	0.158	0.0079	ND	ND	ND	ND	ND	ND	ND
River above property	surface	23.73	0.278	0.13	8.48	8.68	26.1	0.178	ND	ND	ND	ND	ND	ND	ND	ND
River below property	surface	23.86	0.285	0.14	8.46	8.85	26	0.182	ND	ND	ND	ND	ND	ND	ND	ND
Entombed Spring	surface	23.84	0.605	0.31	8	7.03	31.7	0.3871	0.043	ND	ND	ND	ND	ND	ND	ND
Blind duplicate of Main Tank 1	surface								40	ND	0.013	ND	0.00025	0.027	0.12	0.5
Soils/Sediment									Total Cyanide (mg/kg)	TPH(mg/kg)	Arsenic(mg/kg)	Cadmium(mg/kg)	Mercury(mg/kg)	Lead(mg/kg)		
Containment Bund									23	ND	2.7	0.75	0.1	11		
Tailing Pond 1									ND	ND	4.7	ND	0.17	8.2		
Tailing Pond 2									8	ND	2.2	0.66	0.16	6.2		
Main Tank									170	ND	3	2.6	0.11	34		
Repaired Bund Wall									7.9	43	2.7	ND	0.22	5.9		
ND - None Detected																

3.3 Sampling results after Final Treatment

Post-final treatment data show that the concentrations (total cyanide) decreased by a factor of approximately 2 (main tank) to 3 (small tanks) during the final treatment (Table 4). The results also showed that cyanide present as free cyanide is about 20-30% of the total cyanide and that there was minimal change in the concentrations over the August 9th to September 2nd, 2011 holding period (as was found for the July 25th to August 9th, 2011 period also: Table 4). On all occasions the liquors were super-saturated in oxygen at the end of a day's peroxide treatment but on September 2nd, 2011 there was no detectable oxygen in the liquor (Table 5). This suggests that oxidation of the cyanide had completely depleted all the oxygen and the degradation reaction would have ceased or been very slow and would remain so until air was efficiently mixed into the system (agitation or increase in liquor surface area).

This final treatment (approximately 30:1 H₂O₂:CN⁻) although not reducing the CN⁻ concentration to almost zero as expected, did further reduce the concentrations to well below the European “discharge to tailing lake” standard of 50 mgCN/L as WAD cyanide (WAD is a component of total CN; *Directive 2006/21/EC of the European Parliament and of the Council of 15 March 2006. Official Journal of the European Union, 2006*). The NEPA “effluent discharge” standard of 0.2 mg CN(total)/L and 0.1 mgCN(free)/L could also be met by discharging from the tanks with a 100-fold, or higher, dilution.

This final treatment mission was more effective in the T0-T3 tanks with limited cyanide dissolution from the coarse sediments in T0. The concentrations in the T0 to T3 tanks were reduced to 7 mg/l from previous levels of 17 to 24 mg/l, by the final addition of peroxide. This represents a 60 to 70% reduction after the addition of 80 litres of peroxide. Theoretically this should have been reduced to zero, assuming no sediment to liquid phase interaction. This reduction was however in addition to a previous reduction from 31 - 40 mg/l to 17 and 24 mg/l over a 14 day period. This 30% to 60% reduction over a 2 week period is believed to be due to the continued oxidation of the cyanide due to high residual oxygen levels (after the 1st treatment mission) and to a limited extent photolytic destruction. Estimation of the time it would take for gradual compliance of T0-T3 with direct discharge standards was undertaken using the observed rates of reduction applied on a fortnightly interval. It is estimated that it would take 8 to 9 fortnights (~4 months) for complete compliance by allowing natural degradation to occur.

Table 4 Total and Free Cyanide Results during (July 25, 2011) and after (Aug 9, Sept 2, 2011) treatment

Sample Date	July 25th			August 9th				September 2nd					
Sample Time	8:00am			8:30am	10:30am	5:00pm		10:00am					
<u>Location</u>	Total CN (mg/l)			Total CN(mg/l)				Total CN(mg/l)			Free CN(mg/l)		
Main Tank	32	43	42	29	44	17	20	20	18	22	3	4.3	3.2
Tank T0				44	24			12			3.1		
Tank T1	40							13			3.9		
Tank T2				31	17	7.2		14			2.9		
Tank T3	31							8			3.7		
Tank T4								0.14			0.05		

Table 5 shows detailed results from the September 2nd sampling exercise.

Table 5 Detailed results from September 2nd, 2011 sampling exercise

LOCATION	DEPTH (m)	TEMP (oC)	COND (mS/cm)	SAL (ppt)	PH	D.O. (mg/l)	TURB (NTU)	TDS (g/l)	Total Cyanide (mg/l)	Free Cyanide (mg/l)
Tank T0	surface	27.06	2.591	1.4	9.81	0.35	628	1.66	12	3.1
	1m	26.97	2.592	1.4	9.82	0.18	638	1.659		
	2m	26.92	2.592	1.39	9.82	0.13	642	1.659		
	3m	26.72	2.59	1.39	9.84	0.11	648	1.658		
Tank T1	surface	26.83	2.604	1.4	9.92	0.92	605	1.668	13	3.9
	1m	26.49	2.609	1.4	9.9	0.28	630	1.669		
	2m	26.45	2.606	1.4	9.88	0.16	631	1.669		
	3m	26.06	2.602	1.4	9.91	0.11	640	1.665		
Tank T2	surface	26.7	2.624	1.42	10.07	1.19	600	1.6	14	2.9
	1m	26.49	2.619	1.41	9.98	0.43	605	1.67		
	2m	26.36	2.615	1.41	9.93	0.25	610	1.674		
	3m	26.18	2.613	1.41	9.93	0.2	611	1.67		
Tank T3	surface	26.58	2.631	1.42	10	1	555	1.681	8	3.7
	1m	26.59	2.625	1.41	9.96	0.49	584	1.679		
	2m	26.29	2.624	1.41	9.93	0.26	605	1.679		
	3m	26.25	2.62	1.41	9.91	0.16	598	1.679		
Tank T4	surface	26.24	0.357	1.8	9.38	3.42	72.3	0.228	0.14	0.05
Main Tank point 1	surface	25.91	2.501	1.34	9.8	0.74	457	1.592	20	3
	1m	25.39	2.51	1.35	9.79	0.3	455	1.6		
Main Tank point 2	surface	26.41	2.53	1.35	9.83	0.73	462	1.619	18	4.3
	1m	26.25	2.55	1.36	9.82	0.47	470	1.611		
Main Tank point 3	surface	26	2.52	1.36	10.02	1.9	478	1.611	22	3.2
	1m	26.83	2.515	1.36	9.89	0.96	472	1.61		
ND - None Detected										

Table 6 shows detailed results from the October 13th, 2011 sampling exercise.

Results were very similar to that of the September 2nd, 2011 sampling exercise. Minor traces of gold and silver were also detected in the tanks.

Table 6 Detailed results from October 13th sampling exercise

LOCATION	DEPTH (m)	TEMP (oC)	COND (mS/cm)	SAL (ppt)	PH	D.O. (mg/l)	TURB (NTU)	TDS (g/l)	Total Cyanide (mg/l)	Free Cyanide (mg/l)	Gold (mg/l)	Silver (mg/l)
Tank T0	surface	28.56	2.55	1.37	10.06	0.93	303.2	1.626	15	0.99	0.162	0.014
	1m	27.11	2.54	1.37	10.13	0.26	305.1	1.625				
	2m	26.84	2.54	1.37	10.15	0.18	310.3	1.626				
	3m	26.49	2.537	1.36	10.15	0.12	309.7	1.622				
Tank T1	surface	27.09	2.537	1.36	10.2	0.67	316.8	1.622	18	1.1	0.197	0.023
	1m	25.47	2.533	1.36	10.17	0.37	324.7	1.62				
	2m	26.17	2.529	1.36	10.17	0.22	325	1.617				
	3m	25.87	2.521	1.36	10.17	0.14	328.4	1.614				
Tank T2	surface	26.76	2.542	1.37	10.22	1.7	328.5	1.626	15	1.3	0.152	0.018
	1m	26.58	2.539	1.37	10.19	0.64	326.1	1.625				
	2m	26.18	2.536	1.36	10.18	0.34	328.8	1.622				
	3m	25.66	2.531	1.36	10.18	0.19	327	1.62				
Tank T3	surface	26.76	2.573	1.38	10.2	1.44	331	1.646	16	0.95	0.174	0.023
	1m	26.54	2.571	1.38	10.19	0.63	332.1	1.646				
	2m	26.33	2.567	1.38	10.19	0.35	331.4	1.645				
	3m	25.95	2.563	1.39	10.19	0.23	331.1	1.641				
Tank T4	surface	25.26	0.277	0.13	9.5	5.32	131.4	0.1768	0.32	0.078	0.00511	ND
Main Tank point 1	surface	25.29	2.394	1.29	10.22	2.82	249.6	1.533	19	2.1	0.107	0.025
	1m	24.69	2.453	1.32	10.15	0.51	262.3	1.565				
Main Tank point 2	surface	26.02	2.395	1.28	10.15	2.74	238.5	1.529	23	1.8	0.104	0.022
	1m	24.78	2.44	1.31	10.13	0.77	253.1	1.563				
Main Tank point 3	surface	25.7	2.39	1.29	10.14	3.01	317.1	1.52	14	0.93	0.113	0.025
	1m	24.8	2.44	1.31	10.13	0.88	311	1.56				
ND - None Detected												

3.4 Disposal of Container with Sodium Cyanide pellets

Upon request by NEPA to remove the container with sodium cyanide to a safe and secure location at the Petroleum Corporation of Jamaica, an inspection was conducted on July 19th, 2011 on the outside of the container as access was restricted due to the container being padlocked. The container was a 20 foot container in good condition, with no observed breach of the structure . It was raised off the ground to prevent it from being flooded and is surrounded by a concrete wall (Plates 11-12). We were informed by the caretaker Mr Vinton James, that 8 – 9 tonnes of sodium cyanide pellets in see-through, sealed bags stored in plywood containers on pallets were inside the container.

The storage of sodium cyanide in this way does not pose an immediate health risk unless the packaging is interfered with by unauthorized persons.

The transportation of the container to Petrojam was cancelled due to the reluctance of Petrojam to accept it.



Plate 11 Photo showing padlocked container with sodium cyanide pellets



Plate 12 Photo showing container with sodium cyanide pellets surrounded by concrete wall

4.0 SITE PHOTOS



Plate 13 Photo showing warning signs on property



Plate 14 Photo showing warning signs on property



Plate 15 Photo showing sampling of main tank



Plate 16 Photo showing sampling of main tank



Plate 17 Photo showing containment bund area being cleared



Plate 18 Photo showing sampling of Tank T1



Plate 19 Photo showing section of Rio Minho at base of AusJam property



Plate 20 Photo showing sampling of Rio Minho

5.0 CONCLUSIONS AND RECOMMENDATIONS

1. In light of:

- a.) the lack of presence of security, responsible personnel or an operator at the site,
- b.) the risk from consumption and exposure (although reduced) to persons and animals which use and traverse the site, and
- c.) possibilities of structural and mechanical failure of the tanks and valves and the inadequacy of the bunds surrounding the facility;

We recommend an immediate resolution of the associated threat by dilution of the liquor by a factor of 200 (using the spring water) and discharge to the tailing ponds for storage. The resulting concentration would be less than 0.2 mg/l, and will further allow for natural decay of the CN⁻. This is well within international guidelines for discharge to tailing ponds at 50 mg/l for new facilities.

Capacity determination of both tailing ponds has shown that the preferred and most ideal scenario is that of discharge to a combination of Tailing Ponds one and two plus dilution by a factor of 43. This scenario will have an overflowing volume of 4,663 cubic meters of water with a concentration of 0.19mg/l CN after a 5 year return period rainfall event. This is below the level acceptable to enter the environment. During dry conditions this scenario will not overflow and have a concentration level of 0.3mg/l CN, marginally above the acceptable standard. The structural integrity of the slopes of both ponds is quite sound, especially Tailing Pond 1 where there are no signs of erosion. There is a small area of eroded sediments in Tailing Pond 2; however it is quite effective for the disposal of the cyanide.

2. Should the first recommendation not be taken, then, we recommend:

- a.) Monitoring both sets of tanks (Main Tank and T0/T3) for Cyanide at a fortnightly interval for the next 6 months.
- b.) With respect to the isolated T0/T3 tanks:
 - Allow for natural degradation to levels of 0.2 mg/l CN⁻ of the contents of T0/T3 (which are cumulatively approximately 100 cubic metres of liquid content) by discharging to the tailing lakes. We anticipate that this will take 3 months to occur naturally.
- c.) With respect to the Main tank, after the liquors in tanks T0 to T3 are completely treated and have been discharged:
 - i.) discharge the content (approximately 70.5 cubic metres) to the T0/T3 tanks, treat as required, monitor, store and confirm CN⁻ levels have reached 0.2 mg/l CN⁻, and then discharge to the tailing lake. We anticipate that this will take 3 months to occur.

3. With respect to the cyanide pellets stored in the 20 foot container on site, we recommend that an external secured facility be utilized for storage until the mine re-opens. Given that the mining site is remote, thus allowing time for undoing any reasonable temporary securing option, and that re-opening is uncertain, concrete entombing is not recommended.
4. Based on the laboratory results and the protracted delivery of results by laboratories 1 and 2 (both local) and questionable results of at least one laboratory, we recommend that institutional strengthen of local laboratories that test for cyanide be conducted. This should involve standardized analysis and reporting. The mining company should have identified an appropriate lab as part of their emergency operating procedure.
5. Industrial facilities that use large volumes of cyanide should be required to have a limited amount of peroxide on site and have mutual agreements with peroxide providers/manufacturers such as Federated Pharmaceutical to have ready access to treatment amounts to be used in the event of an accident.
6. The Government needs to revisit the value of the Bond that is required to be put down by companies that use hazardous materials in their process. The value has to take into consideration the cost of remediation in the event that there is an accident. The market value, inflation rates and the operation lifetime of the facility must be taken into consideration in arriving at a value.
7. Ensure that all facilities that use or produce hazardous material detail their modus operandi in their Emergency Response Plans. Emergency Response Plans should be requested from facilities that were in existence before the NRCA Act as a requirement for public safety.
8. The installation of weather stations should be mandated as part of the Permitting process of facilities that deal with hazardous materials especially when they are located in populated areas. At a minimum these weather stations should record temperature, relative humidity, wind speed and direction, rainfall and atmospheric pressure. This will help in determining the direction in which it would travel and location of maximum concentrations if it is a gas (air dispersion modelling) and in the case of solids or liquids the probability that it will be washed into drainage channels etc.

APPENDICES

Appendix 1 Study Team

1. C.L. ENVIRONMENTAL CO. LTD.

- i. Mr. Carlton Campbell; M.Phil., CIEC
- ii. Mr. Matthew Lee; M.Sc.
- iii. Mr. Kristoffer Lue; B.Sc.
- iv. Miss Rachel D'Silva; B.Sc.
- v. Mr. Glen Patrick

2. CEAC SOLUTIONS LTD.

- i. Mr. Christopher Burgess; M.Sc., PE
- ii. Mr. Carlneus Johnson
- iii. Mr. Marc Henry

3. UNIVERSITY OF THE WEST INDIES

- i. Dr. Anthony Greenaway
- ii. Dr. Michael Coley

4. BACCHUS ENGINEERING

- i. Mr. Robert Bacchus
- ii. Mr. Michael Bacchus

Appendix 2 Hydrolab MS-5 Calibration Certificate



Certificate of Instrument Performance

Company Name: CL ENVIRONMENTAL

Certification for Job# 491126

Part/Model Number: **MiniSonde 5** Serial Number: **49186**

RECEIVED CONDITION: <i>(One must be checked)</i>	<input checked="" type="checkbox"/> Within Tolerance
	<input type="checkbox"/> Within Tolerance but Limited <i>(*see service report)</i>
	<input type="checkbox"/> Out of Tolerance <i>(*see service report)</i>

RETURNED CONDITION: <i>(One must be checked)</i>	<input checked="" type="checkbox"/> Within Tolerance
	<input type="checkbox"/> Within Tolerance but Limited <i>(*see service report)</i>

Test Equipment Used, (ID#): N.I.S.T. - traceable glass thermometer (H-B Thermometer, Serial 2Z9208) and a Cole-Parmer "PolyStat" Constant Temperature Circulator

Environmental Conditions:		
Actual Temperature: 10 °C	Instrument Reading: 10.03 °C	Error .03 °C
20 °C	20.01 °C	.01 °C
30 °C	29.99 °C	.01 °C

Hach Company does hereby certify that the above listed equipment meets or exceeds all Manufacturers' Service Specifications (unless limited conditions apply). Test equipment used for performance verification are calibrated using standards traceable to the National Institute of Standards and Technology (NIST). Where such standards do not exist, the basis for calibration is documented. The proper operation of the above instrument was established at the time of certificate issuance. To insure continued performance, user must adhere to all requirements listed in the instrument manual.

Certified by: J K Boston Title: Instrument Service Technician

Certification Date: 7-6-11

5600 Lindbergh Drive • Loveland, CO 80538
(800) 227-4224 / FAX (970) 461-3924

Doc# 19775-01
Rev. 1

Appendix 3 Detailed Laboratory Results and Test Methods



REVIEW OF ANALYTICAL REPORT

JOB NUMBER: 400-58219-1

AUSJAM GOLD MINE

International Analytical Group, Inc. (IAG) has conducted an independent, third party review of the above referenced analytical report. The samples were analyzed by Test America Pensacola , a NELAC certified laboratory in Pensacola, Florida.

If you have any questions regarding this analytical report, please contact Maria Jackson at maria@iagenvironmental.com or (954) 894-4023.



ANALYTICAL REPORT

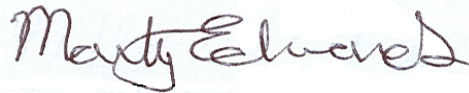
Job Number: 400-58219-1

Job Description: AusJam Gold Mine

For:

CL Environmental
22 Fort George Heights
Stony Hill,
Kingston 8, Jamaica

Attention: Carlton Campbell



Approved for release.
Marty Edwards
Senior Project Manager
8/9/2011 4:58 PM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
08/09/2011

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

TestAmerica Laboratories, Inc.

TestAmerica Pensacola 3355 McLemore Drive, Pensacola, FL 32514

Tel (850) 474-1001 Fax (850) 478-2671 www.testamericainc.com



Job Narrative
400-58219-1

Comments

No additional comments.

Receipt

All samples were received in good condition @ 18.6°C, 17.4°C.

GC Semi VOA

No analytical or quality issues were noted.

Metals

Method 3010A,7470A: The following samples submitted for metals analysis were received with insufficient preservation (pH >2): AJ 1 (400-58219-1), AJ 15 (400-58219-10), AJ 3 (400-58219-2), AJ 5 (400-58219-3), AJ 7 (400-58219-4), AJ 8 (400-58219-5). Lab preserved to < 2 on 7/29/11.

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

Organic Prep

Method 3520C: Insufficient sample volume was provided to meet method-mandated requirements for matrix spike/matrix spike duplicate (MS/MSD) analyses for batch 400-136356 Method FL_PRO.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: CL Environmental

Job Number: 400-58219-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
400-58219-1	AJ 1					
Arsenic		0.013		0.0050	mg/L	6010B
Copper		0.38		0.010	mg/L	6010B
Lead		0.025		0.0050	mg/L	6010B
Zinc		0.11		0.020	mg/L	6010B
Thiocyanate		9.4		1.1	mg/L	SM 4500 CN M
400-58219-2	AJ 3					
Arsenic		0.013		0.0050	mg/L	6010B
Copper		0.52		0.010	mg/L	6010B
Lead		0.026		0.0050	mg/L	6010B
Zinc		0.11		0.020	mg/L	6010B
Thiocyanate		9.3		1.1	mg/L	SM 4500 CN M
400-58219-3	AJ 5					
Arsenic		0.011		0.0050	mg/L	6010B
Copper		0.40		0.010	mg/L	6010B
Lead		0.025		0.0050	mg/L	6010B
Zinc		0.077		0.020	mg/L	6010B
Thiocyanate		9.0		1.1	mg/L	SM 4500 CN M
400-58219-4	AJ 7					
Arsenic		0.013		0.0050	mg/L	6010B
Copper		0.94		0.010	mg/L	6010B
Lead		0.029		0.0050	mg/L	6010B
Zinc		0.10		0.020	mg/L	6010B
Thiocyanate		9.2		1.1	mg/L	SM 4500 CN M
400-58219-5	AJ 8					
Arsenic		0.013		0.0050	mg/L	6010B
Copper		0.55		0.010	mg/L	6010B
Lead		0.029		0.0050	mg/L	6010B
Zinc		0.12		0.020	mg/L	6010B
Mercury		0.00023		0.00020	mg/L	7470A
Thiocyanate		9.3		1.1	mg/L	SM 4500 CN M
400-58219-6	AJ 9					
Thiocyanate		0.17		0.10	mg/L	SM 4500 CN M

EXECUTIVE SUMMARY - Detections

Client: CL Environmental

Job Number: 400-58219-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
400-58219-7 Thiocyanate	AJ 10	0.29		0.10	mg/L	SM 4500 CN M
400-58219-8 Thiocyanate	AJ 13	0.20		0.10	mg/L	SM 4500 CN M
400-58219-9 Thiocyanate	AJ 14	0.20		0.10	mg/L	SM 4500 CN M
400-58219-10 Arsenic Copper Lead Zinc Mercury Thiocyanate	AJ 15	0.013 0.50 0.027 0.12 0.00025 9.4		0.0050 0.010 0.0050 0.020 0.00020 1.1	mg/L mg/L mg/L mg/L mg/L mg/L	6010B 6010B 6010B 6010B 7470A SM 4500 CN M
400-58219-11 Arsenic Cadmium Lead Mercury Percent Moisture	AJS 1	2.7 0.75 11 0.10 39		0.75 0.75 0.75 0.022 0.10	mg/Kg mg/Kg mg/Kg mg/Kg %	6010B 6010B 6010B 7471A Moisture
400-58219-12 Arsenic Cadmium Lead Mercury Percent Moisture	AJS 4	3.0 2.6 34 0.11 30		0.67 0.67 0.67 0.019 0.10	mg/Kg mg/Kg mg/Kg mg/Kg %	6010B 6010B 6010B 7471A Moisture
400-58219-13 C8-C40 Arsenic Lead Mercury Percent Moisture	AJS 5	43 2.7 5.9 0.22 22		13 0.59 0.59 0.016 0.10	mg/Kg mg/Kg mg/Kg mg/Kg %	FL-PRO 6010B 6010B 7471A Moisture

EXECUTIVE SUMMARY - Detections

Client: CL Environmental

Job Number: 400-58219-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
400-58219-14	AJS 3					
Arsenic		2.2		0.55	mg/Kg	6010B
Cadmium		0.66		0.55	mg/Kg	6010B
Lead		6.2		0.55	mg/Kg	6010B
Mercury		0.16		0.014	mg/Kg	7471A
Percent Moisture		15		0.10	%	Moisture

METHOD SUMMARY

Client: CL Environmental

Job Number: 400-58219-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Florida - Petroleum Range Organics (GC) Ultrasonic Extraction	TAL PEN	FL-DEP FL-PRO	SW846 3550B
Inductively Coupled Plasma - Atomic Emission Spectrometry Preparation, Metals	TAL PEN	SW846 6010B	SW846 3050B
Mercury Preparation, Mercury	TAL PEN	SW846 7471A	SW846 7471A
Percent Moisture	TAL PEN	EPA Moisture	
Matrix Water			
Florida - Petroleum Range Organics (GC) Liquid-Liquid Extraction (Continuous)	TAL PEN	FL-DEP FL-PRO	SW846 3520C
Metals (ICP) Preparation, Total Metals	TAL PEN	SW846 6010B	SW846 3010A
Mercury Preparation, Mercury	TAL PEN	SW846 7470A	SW846 7470A
Thiocyanate	TAL MOB	SM SM 4500 CN M	

Lab References:

TAL MOB = TestAmerica Mobile

TAL PEN = TestAmerica Pensacola

Method References:

EPA = US Environmental Protection Agency

FL-DEP = State Of Florida Department Of Environmental Protection, Florida Administrative Code.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: CL Environmental

Job Number: 400-58219-1

Method	Analyst	Analyst ID
FL-DEP FL-PRO	Ayers, Kim	KA
FL-DEP FL-PRO	Waite, Daniel	DW
SW846 6010B	St. Pere, Gary	GS
SW846 7470A	Cortez, Maria	MC
SW846 7471A	Cortez, Maria	MC
EPA Moisture	Hor, Koma	KH
SM SM 4500 CN M	Norvang, Vanyda A	VAN

SAMPLE SUMMARY

Client: CL Environmental

Job Number: 400-58219-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-58219-1	AJ 1	Water	07/25/2011 1145	07/29/2011 1027
400-58219-2	AJ 3	Water	07/25/2011 1150	07/29/2011 1027
400-58219-3	AJ 5	Water	07/25/2011 1155	07/29/2011 1027
400-58219-4	AJ 7	Water	07/25/2011 1000	07/29/2011 1027
400-58219-5	AJ 8	Water	07/25/2011 1020	07/29/2011 1027
400-58219-6	AJ 9	Water	07/25/2011 1230	07/29/2011 1027
400-58219-7	AJ 10	Water	07/25/2011 1240	07/29/2011 1027
400-58219-8	AJ 13	Water	07/25/2011 0930	07/29/2011 1027
400-58219-9	AJ 14	Water	07/25/2011 0930	07/29/2011 1027
400-58219-10	AJ 15	Water	07/25/2011 1140	07/29/2011 1027
400-58219-11	AJS 1	Solid	07/25/2011 0930	07/29/2011 1027
400-58219-12	AJS 4	Solid	07/25/2011 1000	07/29/2011 1027
400-58219-13	AJS 5	Solid	07/25/2011 1030	07/29/2011 1027
400-58219-14	AJS 3	Solid	07/25/2011 1100	07/29/2011 1027

SAMPLE RESULTS

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 1

Lab Sample ID: 400-58219-1

Date Sampled: 07/25/2011 1145

Client Matrix: Water

Date Received: 07/29/2011 1027

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136495	Instrument ID:	WALLE
Prep Method:	3520C	Prep Batch:	400-136356	Lab File ID:	400-58219-c-1-a_062
Dilution:	1.0			Initial Weight/Volume:	1080 mL
Analysis Date:	08/02/2011 2058			Final Weight/Volume:	1.5 mL
Prep Date:	08/01/2011 0932			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	RL
C8-C40	ND		0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	57		20 - 176
o-Terphenyl	69		49 - 143

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 3

Lab Sample ID: 400-58219-2

Date Sampled: 07/25/2011 1150

Client Matrix: Water

Date Received: 07/29/2011 1027

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136495	Instrument ID:	WALLE
Prep Method:	3520C	Prep Batch:	400-136356	Lab File ID:	400-58219-c-2-a_063
Dilution:	1.0			Initial Weight/Volume:	1080 mL
Analysis Date:	08/02/2011 2107			Final Weight/Volume:	2.6 mL
Prep Date:	08/01/2011 0932			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	RL
C8-C40	ND		0.18

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	55		20 - 176
o-Terphenyl	64		49 - 143

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 5

Lab Sample ID: 400-58219-3

Date Sampled: 07/25/2011 1155

Client Matrix: Water

Date Received: 07/29/2011 1027

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136495	Instrument ID:	WALLE
Prep Method:	3520C	Prep Batch:	400-136356	Lab File ID:	400-58219-c-3-a_064
Dilution:	1.0			Initial Weight/Volume:	1080 mL
Analysis Date:	08/02/2011 2117			Final Weight/Volume:	1.8 mL
Prep Date:	08/01/2011 0932			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	RL
C8-C40	ND		0.13

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	57		20 - 176
o-Terphenyl	66		49 - 143

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 7

Lab Sample ID: 400-58219-4

Date Sampled: 07/25/2011 1000

Client Matrix: Water

Date Received: 07/29/2011 1027

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136495	Instrument ID:	WALLE
Prep Method:	3520C	Prep Batch:	400-136356	Lab File ID:	400-58219-c-4-a_065
Dilution:	1.0			Initial Weight/Volume:	1080 mL
Analysis Date:	08/02/2011 2127			Final Weight/Volume:	1.5 mL
Prep Date:	08/01/2011 0932			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	RL
C8-C40	ND		0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	61		20 - 176
o-Terphenyl	71		49 - 143

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 8

Lab Sample ID: 400-58219-5

Date Sampled: 07/25/2011 1020

Client Matrix: Water

Date Received: 07/29/2011 1027

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136495	Instrument ID:	WALLE
Prep Method:	3520C	Prep Batch:	400-136356	Lab File ID:	400-58219-c-5-a_066
Dilution:	1.0			Initial Weight/Volume:	1080 mL
Analysis Date:	08/02/2011 2136			Final Weight/Volume:	1.4 mL
Prep Date:	08/01/2011 0932			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	RL
C8-C40	ND		0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	60		20 - 176
o-Terphenyl	71		49 - 143

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 9

Lab Sample ID: 400-58219-6

Date Sampled: 07/25/2011 1230

Client Matrix: Water

Date Received: 07/29/2011 1027

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136495	Instrument ID:	WALLE
Prep Method:	3520C	Prep Batch:	400-136356	Lab File ID:	400-58219-c-6-a_067
Dilution:	1.0			Initial Weight/Volume:	1070 mL
Analysis Date:	08/02/2011 2146			Final Weight/Volume:	1.6 mL
Prep Date:	08/01/2011 0932			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	RL
C8-C40	ND		0.11

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	65		20 - 176
o-Terphenyl	76		49 - 143

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 10

Lab Sample ID: 400-58219-7

Date Sampled: 07/25/2011 1240

Client Matrix: Water

Date Received: 07/29/2011 1027

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136495	Instrument ID:	WALLE
Prep Method:	3520C	Prep Batch:	400-136356	Lab File ID:	400-58219-c-7-a_068
Dilution:	1.0			Initial Weight/Volume:	1080 mL
Analysis Date:	08/02/2011 2156			Final Weight/Volume:	1.5 mL
Prep Date:	08/01/2011 0932			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	RL
C8-C40	ND		0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	52		20 - 176
o-Terphenyl	65		49 - 143

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 13

Lab Sample ID: 400-58219-8

Client Matrix: Water

Date Sampled: 07/25/2011 0930

Date Received: 07/29/2011 1027

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136495	Instrument ID:	WALLE
Prep Method:	3520C	Prep Batch:	400-136356	Lab File ID:	400-58219-c-8-a_070
Dilution:	1.0			Initial Weight/Volume:	1080 mL
Analysis Date:	08/02/2011 2216			Final Weight/Volume:	1.5 mL
Prep Date:	08/01/2011 0932			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	RL
C8-C40	ND		0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	71		20 - 176
o-Terphenyl	75		49 - 143

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 14

Lab Sample ID: 400-58219-9

Date Sampled: 07/25/2011 0930

Client Matrix: Water

Date Received: 07/29/2011 1027

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136495	Instrument ID:	WALLE
Prep Method:	3520C	Prep Batch:	400-136356	Lab File ID:	400-58219-c-9-a_071
Dilution:	1.0			Initial Weight/Volume:	1080 mL
Analysis Date:	08/02/2011 2226			Final Weight/Volume:	1.7 mL
Prep Date:	08/01/2011 0932			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	RL
C8-C40	ND		0.12

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	67		20 - 176
o-Terphenyl	76		49 - 143

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 15

Lab Sample ID: 400-58219-10

Date Sampled: 07/25/2011 1140

Client Matrix: Water

Date Received: 07/29/2011 1027

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136495	Instrument ID:	WALLE
Prep Method:	3520C	Prep Batch:	400-136356	Lab File ID:	400-58219-c-10-a_07
Dilution:	1.0			Initial Weight/Volume:	1080 mL
Analysis Date:	08/02/2011 2236			Final Weight/Volume:	1.6 mL
Prep Date:	08/01/2011 0932			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	RL
C8-C40	ND		0.11

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	54		20 - 176
o-Terphenyl	69		49 - 143

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJS 1

Lab Sample ID: 400-58219-11

Date Sampled: 07/25/2011 0930

Client Matrix: Solid

% Moisture: 39.4

Date Received: 07/29/2011 1027

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136407	Instrument ID:	WALLE
Prep Method:	3550B	Prep Batch:	400-136376	Lab File ID:	400-58219-a-11-c_01
Dilution:	1.0			Initial Weight/Volume:	30.09 g
Analysis Date:	08/02/2011 1320			Final Weight/Volume:	1.4 mL
Prep Date:	08/01/2011 1044			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
C8-C40		ND		12

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	56		37 - 138
o-Terphenyl	74		50 - 121

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJS 4

Lab Sample ID: 400-58219-12

Date Sampled: 07/25/2011 1000

Client Matrix: Solid

% Moisture: 29.6

Date Received: 07/29/2011 1027

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136407	Instrument ID:	WALLE
Prep Method:	3550B	Prep Batch:	400-136376	Lab File ID:	400-58219-a-12-c_01
Dilution:	1.0			Initial Weight/Volume:	30.33 g
Analysis Date:	08/02/2011 1330			Final Weight/Volume:	1.6 mL
Prep Date:	08/01/2011 1044			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
C8-C40		ND		11

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	57		37 - 138
o-Terphenyl	62		50 - 121

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJS 5

Lab Sample ID: 400-58219-13

Date Sampled: 07/25/2011 1030

Client Matrix: Solid

% Moisture: 22.4

Date Received: 07/29/2011 1027

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136407	Instrument ID:	WALLE
Prep Method:	3550B	Prep Batch:	400-136376	Lab File ID:	400-58219-a-13-c_01
Dilution:	1.0			Initial Weight/Volume:	30.35 g
Analysis Date:	08/02/2011 1340			Final Weight/Volume:	2.0 mL
Prep Date:	08/01/2011 1044			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
C8-C40		43		13

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	52		37 - 138
o-Terphenyl	64		50 - 121

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJS 3

Lab Sample ID: 400-58219-14

Date Sampled: 07/25/2011 1100

Client Matrix: Solid

% Moisture: 14.6

Date Received: 07/29/2011 1027

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136407	Instrument ID:	WALLE
Prep Method:	3550B	Prep Batch:	400-136376	Lab File ID:	400-58219-a-14-c_02
Dilution:	1.0			Initial Weight/Volume:	30.19 g
Analysis Date:	08/02/2011 1349			Final Weight/Volume:	1.8 mL
Prep Date:	08/01/2011 1044			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
C8-C40		ND		10

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	51		37 - 138
o-Terphenyl	65		50 - 121

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 1

Lab Sample ID: 400-58219-1

Date Sampled: 07/25/2011 1145

Client Matrix: Water

Date Received: 07/29/2011 1027

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Prep Method:	3010A	Prep Batch:	400-136361	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/02/2011 1319			Final Weight/Volume:	50 mL
Prep Date:	08/01/2011 0946				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	0.013		0.0050
Cadmium	ND		0.0050
Copper	0.38		0.010
Lead	0.025		0.0050
Zinc	0.11		0.020

7470A Mercury

Analysis Method:	7470A	Analysis Batch:	400-136476	Instrument ID:	HYDRA AA
Prep Method:	7470A	Prep Batch:	400-136420	Lab File ID:	HW136420.PRN
Dilution:	1.0			Initial Weight/Volume:	40 mL
Analysis Date:	08/02/2011 1407			Final Weight/Volume:	40 mL
Prep Date:	08/02/2011 0830				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 3

Lab Sample ID: 400-58219-2

Date Sampled: 07/25/2011 1150

Client Matrix: Water

Date Received: 07/29/2011 1027

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Prep Method:	3010A	Prep Batch:	400-136361	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/02/2011 1323			Final Weight/Volume:	50 mL
Prep Date:	08/01/2011 0946				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	0.013		0.0050
Cadmium	ND		0.0050
Copper	0.52		0.010
Lead	0.026		0.0050
Zinc	0.11		0.020

7470A Mercury

Analysis Method:	7470A	Analysis Batch:	400-136476	Instrument ID:	HYDRA AA
Prep Method:	7470A	Prep Batch:	400-136420	Lab File ID:	HW136420.PRN
Dilution:	1.0			Initial Weight/Volume:	40 mL
Analysis Date:	08/02/2011 1408			Final Weight/Volume:	40 mL
Prep Date:	08/02/2011 0830				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 5

Lab Sample ID: 400-58219-3

Date Sampled: 07/25/2011 1155

Client Matrix: Water

Date Received: 07/29/2011 1027

6010B Metals (ICP)

Analysis Method: 6010B Analysis Batch: 400-136486 Instrument ID: 6500 ICP Duo
Prep Method: 3010A Prep Batch: 400-136361 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 08/02/2011 1326 Final Weight/Volume: 50 mL
Prep Date: 08/01/2011 0946

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	0.011		0.0050
Cadmium	ND		0.0050
Copper	0.40		0.010
Lead	0.025		0.0050
Zinc	0.077		0.020

7470A Mercury

Analysis Method: 7470A Analysis Batch: 400-136476 Instrument ID: HYDRA AA
Prep Method: 7470A Prep Batch: 400-136420 Lab File ID: HW136420.PRN
Dilution: 1.0 Initial Weight/Volume: 40 mL
Analysis Date: 08/02/2011 1409 Final Weight/Volume: 40 mL
Prep Date: 08/02/2011 0830

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 7

Lab Sample ID: 400-58219-4

Date Sampled: 07/25/2011 1000

Client Matrix: Water

Date Received: 07/29/2011 1027

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Prep Method:	3010A	Prep Batch:	400-136361	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/02/2011 1339			Final Weight/Volume:	50 mL
Prep Date:	08/01/2011 0946				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	0.013		0.0050
Cadmium	ND		0.0050
Copper	0.94		0.010
Lead	0.029		0.0050
Zinc	0.10		0.020

7470A Mercury

Analysis Method:	7470A	Analysis Batch:	400-136476	Instrument ID:	HYDRA AA
Prep Method:	7470A	Prep Batch:	400-136420	Lab File ID:	HW136420.PRN
Dilution:	1.0			Initial Weight/Volume:	40 mL
Analysis Date:	08/02/2011 1411			Final Weight/Volume:	40 mL
Prep Date:	08/02/2011 0830				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 8

Lab Sample ID: 400-58219-5

Date Sampled: 07/25/2011 1020

Client Matrix: Water

Date Received: 07/29/2011 1027

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Prep Method:	3010A	Prep Batch:	400-136361	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/02/2011 1342			Final Weight/Volume:	50 mL
Prep Date:	08/01/2011 0946				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	0.013		0.0050
Cadmium	ND		0.0050
Copper	0.55		0.010
Lead	0.029		0.0050
Zinc	0.12		0.020

7470A Mercury

Analysis Method:	7470A	Analysis Batch:	400-136476	Instrument ID:	HYDRA AA
Prep Method:	7470A	Prep Batch:	400-136420	Lab File ID:	HW136420.PRN
Dilution:	1.0			Initial Weight/Volume:	40 mL
Analysis Date:	08/02/2011 1412			Final Weight/Volume:	40 mL
Prep Date:	08/02/2011 0830				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	0.00023		0.00020

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 9

Lab Sample ID: 400-58219-6

Date Sampled: 07/25/2011 1230

Client Matrix: Water

Date Received: 07/29/2011 1027

6010B Metals (ICP)

Analysis Method: 6010B Analysis Batch: 400-136486 Instrument ID: 6500 ICP Duo
Prep Method: 3010A Prep Batch: 400-136361 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 08/02/2011 1346 Final Weight/Volume: 50 mL
Prep Date: 08/01/2011 0946

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND		0.0050
Cadmium	ND		0.0050
Copper	ND		0.010
Lead	ND		0.0050
Zinc	ND		0.020

7470A Mercury

Analysis Method: 7470A Analysis Batch: 400-136476 Instrument ID: HYDRA AA
Prep Method: 7470A Prep Batch: 400-136420 Lab File ID: HW136420.PRN
Dilution: 1.0 Initial Weight/Volume: 40 mL
Analysis Date: 08/02/2011 1414 Final Weight/Volume: 40 mL
Prep Date: 08/02/2011 0830

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 10

Lab Sample ID: 400-58219-7

Date Sampled: 07/25/2011 1240

Client Matrix: Water

Date Received: 07/29/2011 1027

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Prep Method:	3010A	Prep Batch:	400-136361	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/02/2011 1349			Final Weight/Volume:	50 mL
Prep Date:	08/01/2011 0946				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND		0.0050
Cadmium	ND		0.0050
Copper	ND		0.010
Lead	ND		0.0050
Zinc	ND		0.020

7470A Mercury

Analysis Method:	7470A	Analysis Batch:	400-136476	Instrument ID:	HYDRA AA
Prep Method:	7470A	Prep Batch:	400-136420	Lab File ID:	HW136420.PRN
Dilution:	1.0			Initial Weight/Volume:	40 mL
Analysis Date:	08/02/2011 1415			Final Weight/Volume:	40 mL
Prep Date:	08/02/2011 0830				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 13

Lab Sample ID: 400-58219-8

Date Sampled: 07/25/2011 0930

Client Matrix: Water

Date Received: 07/29/2011 1027

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Prep Method:	3010A	Prep Batch:	400-136361	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/02/2011 1404			Final Weight/Volume:	50 mL
Prep Date:	08/01/2011 0946				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND		0.0050
Cadmium	ND		0.0050
Copper	ND		0.010
Lead	ND		0.0050
Zinc	ND		0.020

7470A Mercury

Analysis Method:	7470A	Analysis Batch:	400-136476	Instrument ID:	HYDRA AA
Prep Method:	7470A	Prep Batch:	400-136420	Lab File ID:	HW136420.PRN
Dilution:	1.0			Initial Weight/Volume:	40 mL
Analysis Date:	08/02/2011 1416			Final Weight/Volume:	40 mL
Prep Date:	08/02/2011 0830				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 14

Lab Sample ID: 400-58219-9

Date Sampled: 07/25/2011 0930

Client Matrix: Water

Date Received: 07/29/2011 1027

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Prep Method:	3010A	Prep Batch:	400-136361	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/02/2011 1407			Final Weight/Volume:	50 mL
Prep Date:	08/01/2011 0946				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND		0.0050
Cadmium	ND		0.0050
Copper	ND		0.010
Lead	ND		0.0050
Zinc	ND		0.020

7470A Mercury

Analysis Method:	7470A	Analysis Batch:	400-136476	Instrument ID:	HYDRA AA
Prep Method:	7470A	Prep Batch:	400-136420	Lab File ID:	HW136420.PRN
Dilution:	1.0			Initial Weight/Volume:	40 mL
Analysis Date:	08/02/2011 1425			Final Weight/Volume:	40 mL
Prep Date:	08/02/2011 0830				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJ 15

Lab Sample ID: 400-58219-10

Date Sampled: 07/25/2011 1140

Client Matrix: Water

Date Received: 07/29/2011 1027

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Prep Method:	3010A	Prep Batch:	400-136361	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/02/2011 1411			Final Weight/Volume:	50 mL
Prep Date:	08/01/2011 0946				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	0.013		0.0050
Cadmium	ND		0.0050
Copper	0.50		0.010
Lead	0.027		0.0050
Zinc	0.12		0.020

7470A Mercury

Analysis Method:	7470A	Analysis Batch:	400-136476	Instrument ID:	HYDRA AA
Prep Method:	7470A	Prep Batch:	400-136420	Lab File ID:	HW136420.PRN
Dilution:	1.0			Initial Weight/Volume:	40 mL
Analysis Date:	08/02/2011 1427			Final Weight/Volume:	40 mL
Prep Date:	08/02/2011 0830				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	0.00025		0.00020

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJS 1

Lab Sample ID: 400-58219-11

Date Sampled: 07/25/2011 0930

Client Matrix: Solid

% Moisture: 39.4

Date Received: 07/29/2011 1027

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Analysis Method: 6010B Analysis Batch: 400-136486 Instrument ID: 6500 ICP Duo
Prep Method: 3050B Prep Batch: 400-136301 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: .548 g
Analysis Date: 08/02/2011 1643 Final Weight/Volume: 50 mL
Prep Date: 07/29/2011 1637

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		2.7		0.75
Cadmium		0.75		0.75
Lead		11		0.75

7471A Mercury

Analysis Method: 7471A Analysis Batch: 400-136702 Instrument ID: HYDRA AA
Prep Method: 7471A Prep Batch: 400-136573 Lab File ID: HS136573A.PRN
Dilution: 1.0 Initial Weight/Volume: .6069 g
Analysis Date: 08/05/2011 1157 Final Weight/Volume: 40 mL
Prep Date: 08/05/2011 0800

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.10		0.022

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJS 4

Lab Sample ID: 400-58219-12

Date Sampled: 07/25/2011 1000

Client Matrix: Solid

% Moisture: 29.6

Date Received: 07/29/2011 1027

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Analysis Method: 6010B Analysis Batch: 400-136486 Instrument ID: 6500 ICP Duo
Prep Method: 3050B Prep Batch: 400-136301 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: .529 g
Analysis Date: 08/02/2011 1646 Final Weight/Volume: 50 mL
Prep Date: 07/29/2011 1637

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		3.0		0.67
Cadmium		2.6		0.67
Lead		34		0.67

7471A Mercury

Analysis Method: 7471A Analysis Batch: 400-136702 Instrument ID: HYDRA AA
Prep Method: 7471A Prep Batch: 400-136573 Lab File ID: HS136573A.PRN
Dilution: 1.0 Initial Weight/Volume: .6108 g
Analysis Date: 08/05/2011 1158 Final Weight/Volume: 40 mL
Prep Date: 08/05/2011 0800

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.11		0.019

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJS 5

Lab Sample ID: 400-58219-13

Date Sampled: 07/25/2011 1030

Client Matrix: Solid

% Moisture: 22.4

Date Received: 07/29/2011 1027

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Analysis Method:	6010B	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Prep Method:	3050B	Prep Batch:	400-136301	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	.548 g
Analysis Date:	08/02/2011 1649			Final Weight/Volume:	50 mL
Prep Date:	07/29/2011 1637				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		2.7		0.59
Cadmium		ND		0.59
Lead		5.9		0.59

7471A Mercury

Analysis Method:	7471A	Analysis Batch:	400-136702	Instrument ID:	HYDRA AA
Prep Method:	7471A	Prep Batch:	400-136573	Lab File ID:	HS136573A.PRN
Dilution:	1.0			Initial Weight/Volume:	.6233 g
Analysis Date:	08/05/2011 1159			Final Weight/Volume:	40 mL
Prep Date:	08/05/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.22		0.016

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

Client Sample ID: AJS 3

Lab Sample ID: 400-58219-14

Date Sampled: 07/25/2011 1100

Client Matrix: Solid

% Moisture: 14.6

Date Received: 07/29/2011 1027

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry

Analysis Method: 6010B Analysis Batch: 400-136486 Instrument ID: 6500 ICP Duo
Prep Method: 3050B Prep Batch: 400-136301 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: .529 g
Analysis Date: 08/02/2011 1652 Final Weight/Volume: 50 mL
Prep Date: 07/29/2011 1637

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		2.2		0.55
Cadmium		0.66		0.55
Lead		6.2		0.55

7471A Mercury

Analysis Method: 7471A Analysis Batch: 400-136702 Instrument ID: HYDRA AA
Prep Method: 7471A Prep Batch: 400-136573 Lab File ID: HS136573A.PRN
Dilution: 1.0 Initial Weight/Volume: .6467 g
Analysis Date: 08/05/2011 1201 Final Weight/Volume: 40 mL
Prep Date: 08/05/2011 0800

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.16		0.014

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

General Chemistry

Client Sample ID: AJ 1

Lab Sample ID: 400-58219-1

Client Matrix: Water

Date Sampled: 07/25/2011 1145

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Thiocyanate	9.4		mg/L	1.1	11	SM 4500 CN M

Analysis Batch: 700-104116

Analysis Date: 08/04/2011 1407

Client: CL Environmental

Job Number: 400-58219-1

General Chemistry

Client Sample ID: AJ 3

Lab Sample ID: 400-58219-2

Client Matrix: Water

Date Sampled: 07/25/2011 1150

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Thiocyanate	9.3		mg/L	1.1	11	SM 4500 CN M

Analysis Batch: 700-104116

Analysis Date: 08/04/2011 1412

Client: CL Environmental

Job Number: 400-58219-1

General Chemistry

Client Sample ID: AJ 5

Lab Sample ID: 400-58219-3

Client Matrix: Water

Date Sampled: 07/25/2011 1155

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Thiocyanate	9.0		mg/L	1.1	11	SM 4500 CN M

Analysis Batch: 700-104116

Analysis Date: 08/04/2011 1412

Client: CL Environmental

Job Number: 400-58219-1

General Chemistry

Client Sample ID: AJ 7

Lab Sample ID: 400-58219-4

Client Matrix: Water

Date Sampled: 07/25/2011 1000

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Thiocyanate	9.2		mg/L	1.1	11	SM 4500 CN M

Analysis Batch: 700-104116

Analysis Date: 08/04/2011 1412

Client: CL Environmental

Job Number: 400-58219-1

General Chemistry

Client Sample ID: AJ 8

Lab Sample ID: 400-58219-5

Client Matrix: Water

Date Sampled: 07/25/2011 1020

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Thiocyanate	9.3		mg/L	1.1	11	SM 4500 CN M

Analysis Batch: 700-104116

Analysis Date: 08/04/2011 1412

Client: CL Environmental

Job Number: 400-58219-1

General Chemistry

Client Sample ID: AJ 9

Lab Sample ID: 400-58219-6

Client Matrix: Water

Date Sampled: 07/25/2011 1230

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Thiocyanate	0.17		mg/L	0.10	1.0	SM 4500 CN M

Analysis Batch: 700-104116

Analysis Date: 08/04/2011 1405

Client: CL Environmental

Job Number: 400-58219-1

General Chemistry

Client Sample ID: AJ 10

Lab Sample ID: 400-58219-7

Client Matrix: Water

Date Sampled: 07/25/2011 1240

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Thiocyanate	0.29		mg/L	0.10	1.0	SM 4500 CN M

Analysis Batch: 700-104116

Analysis Date: 08/04/2011 1405

Client: CL Environmental

Job Number: 400-58219-1

General Chemistry

Client Sample ID: AJ 13

Lab Sample ID: 400-58219-8

Client Matrix: Water

Date Sampled: 07/25/2011 0930

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Thiocyanate	0.20		mg/L	0.10	1.0	SM 4500 CN M

Analysis Batch: 700-104116

Analysis Date: 08/04/2011 1405

Analytical Data

Client: CL Environmental

Job Number: 400-58219-1

General Chemistry

Client Sample ID: AJ 14

Lab Sample ID: 400-58219-9

Client Matrix: Water

Date Sampled: 07/25/2011 0930

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Thiocyanate	0.20		mg/L	0.10	1.0	SM 4500 CN M

Analysis Batch: 700-104116

Analysis Date: 08/04/2011 1405

Client: CL Environmental

Job Number: 400-58219-1

General Chemistry

Client Sample ID: AJ 15

Lab Sample ID: 400-58219-10

Client Matrix: Water

Date Sampled: 07/25/2011 1140

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Thiocyanate	9.4		mg/L	1.1	11	SM 4500 CN M

Analysis Batch: 700-104116

Analysis Date: 08/04/2011 1412

Client: CL Environmental

Job Number: 400-58219-1

General Chemistry

Client Sample ID: AJS 1

Lab Sample ID: 400-58219-11

Date Sampled: 07/25/2011 0930

Client Matrix: Solid

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	39		%	0.10	1.0	Moisture
	Analysis Batch: 400-136307	Analysis Date: 07/29/2011 1628				DryWt Corrected: N

Client: CL Environmental

Job Number: 400-58219-1

General Chemistry

Client Sample ID: AJS 4

Lab Sample ID: 400-58219-12

Date Sampled: 07/25/2011 1000

Client Matrix: Solid

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	30		%	0.10	1.0	Moisture
	Analysis Batch: 400-136307	Analysis Date: 07/29/2011 1628				DryWt Corrected: N

Client: CL Environmental

Job Number: 400-58219-1

General Chemistry

Client Sample ID: AJS 5

Lab Sample ID: 400-58219-13

Date Sampled: 07/25/2011 1030

Client Matrix: Solid

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	22		%	0.10	1.0	Moisture
	Analysis Batch: 400-136307	Analysis Date: 07/29/2011 1628				DryWt Corrected: N

Client: CL Environmental

Job Number: 400-58219-1

General Chemistry

Client Sample ID: AJS 3

Lab Sample ID: 400-58219-14

Client Matrix: Solid

Date Sampled: 07/25/2011 1100

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	15		%	0.10	1.0	Moisture
	Analysis Batch: 400-136307	Analysis Date: 07/29/2011 1628				DryWt Corrected: N

QUALITY CONTROL RESULTS

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC Semi VOA					
Prep Batch: 400-136356					
LCS 400-136356/16-A	Lab Control Sample	T	Water	3520C	
MB 400-136356/17-A	Method Blank	T	Water	3520C	
400-58219-1	AJ 1	T	Water	3520C	
400-58219-2	AJ 3	T	Water	3520C	
400-58219-3	AJ 5	T	Water	3520C	
400-58219-4	AJ 7	T	Water	3520C	
400-58219-5	AJ 8	T	Water	3520C	
400-58219-6	AJ 9	T	Water	3520C	
400-58219-7	AJ 10	T	Water	3520C	
400-58219-8	AJ 13	T	Water	3520C	
400-58219-9	AJ 14	T	Water	3520C	
400-58219-10	AJ 15	T	Water	3520C	
Prep Batch: 400-136376					
LCS 400-136376/12-A	Lab Control Sample	T	Solid	3550B	
MB 400-136376/13-A	Method Blank	T	Solid	3550B	
400-58219-11	AJS 1	T	Solid	3550B	
400-58219-12	AJS 4	T	Solid	3550B	
400-58219-13	AJS 5	T	Solid	3550B	
400-58219-14	AJS 3	T	Solid	3550B	
400-58219-14MS	Matrix Spike	T	Solid	3550B	
400-58219-14MSD	Matrix Spike Duplicate	T	Solid	3550B	
Analysis Batch:400-136407					
LCS 400-136376/12-A	Lab Control Sample	T	Solid	FL-PRO	400-136376
MB 400-136376/13-A	Method Blank	T	Solid	FL-PRO	400-136376
400-58219-11	AJS 1	T	Solid	FL-PRO	400-136376
400-58219-12	AJS 4	T	Solid	FL-PRO	400-136376
400-58219-13	AJS 5	T	Solid	FL-PRO	400-136376
400-58219-14	AJS 3	T	Solid	FL-PRO	400-136376
400-58219-14MS	Matrix Spike	T	Solid	FL-PRO	400-136376
400-58219-14MSD	Matrix Spike Duplicate	T	Solid	FL-PRO	400-136376

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:400-136495					
LCS 400-136356/16-A	Lab Control Sample	T	Water	FL-PRO	400-136356
MB 400-136356/17-A	Method Blank	T	Water	FL-PRO	400-136356
400-58219-1	AJ 1	T	Water	FL-PRO	400-136356
400-58219-2	AJ 3	T	Water	FL-PRO	400-136356
400-58219-3	AJ 5	T	Water	FL-PRO	400-136356
400-58219-4	AJ 7	T	Water	FL-PRO	400-136356
400-58219-5	AJ 8	T	Water	FL-PRO	400-136356
400-58219-6	AJ 9	T	Water	FL-PRO	400-136356
400-58219-7	AJ 10	T	Water	FL-PRO	400-136356
400-58219-8	AJ 13	T	Water	FL-PRO	400-136356
400-58219-9	AJ 14	T	Water	FL-PRO	400-136356
400-58219-10	AJ 15	T	Water	FL-PRO	400-136356

Report Basis

T = Total

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 400-136301					
LCS 400-136301/20-A	Lab Control Sample	T	Solid	3050B	
MB 400-136301/19-A	Method Blank	T	Solid	3050B	
400-58219-11	AJS 1	T	Solid	3050B	
400-58219-12	AJS 4	T	Solid	3050B	
400-58219-13	AJS 5	T	Solid	3050B	
400-58219-14	AJS 3	T	Solid	3050B	
400-58222-A-1-B MS	Matrix Spike	T	Solid	3050B	
400-58222-A-1-C MSD	Matrix Spike Duplicate	T	Solid	3050B	
Prep Batch: 400-136361					
LCS 400-136361/25-A	Lab Control Sample	T	Water	3010A	
MB 400-136361/24-A	Method Blank	T	Water	3010A	
400-58214-E-1-B MS	Matrix Spike	T	Water	3010A	
400-58214-E-1-C MSD	Matrix Spike Duplicate	T	Water	3010A	
400-58219-1	AJ 1	T	Water	3010A	
400-58219-2	AJ 3	T	Water	3010A	
400-58219-3	AJ 5	T	Water	3010A	
400-58219-4	AJ 7	T	Water	3010A	
400-58219-5	AJ 8	T	Water	3010A	
400-58219-6	AJ 9	T	Water	3010A	
400-58219-7	AJ 10	T	Water	3010A	
400-58219-8	AJ 13	T	Water	3010A	
400-58219-9	AJ 14	T	Water	3010A	
400-58219-10	AJ 15	T	Water	3010A	
Prep Batch: 400-136420					
LCS 400-136420/15-A	Lab Control Sample	T	Water	7470A	
MB 400-136420/14-A	Method Blank	T	Water	7470A	
400-58219-1	AJ 1	T	Water	7470A	
400-58219-2	AJ 3	T	Water	7470A	
400-58219-3	AJ 5	T	Water	7470A	
400-58219-4	AJ 7	T	Water	7470A	
400-58219-5	AJ 8	T	Water	7470A	
400-58219-6	AJ 9	T	Water	7470A	
400-58219-7	AJ 10	T	Water	7470A	
400-58219-8	AJ 13	T	Water	7470A	
400-58219-8MS	Matrix Spike	T	Water	7470A	
400-58219-8MSD	Matrix Spike Duplicate	T	Water	7470A	
400-58219-9	AJ 14	T	Water	7470A	
400-58219-10	AJ 15	T	Water	7470A	

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Analysis Batch:400-136476					
LCS 400-136420/15-A	Lab Control Sample	T	Water	7470A	400-136420
MB 400-136420/14-A	Method Blank	T	Water	7470A	400-136420
400-58219-1	AJ 1	T	Water	7470A	400-136420
400-58219-2	AJ 3	T	Water	7470A	400-136420
400-58219-3	AJ 5	T	Water	7470A	400-136420
400-58219-4	AJ 7	T	Water	7470A	400-136420
400-58219-5	AJ 8	T	Water	7470A	400-136420
400-58219-6	AJ 9	T	Water	7470A	400-136420
400-58219-7	AJ 10	T	Water	7470A	400-136420
400-58219-8	AJ 13	T	Water	7470A	400-136420
400-58219-8MS	Matrix Spike	T	Water	7470A	400-136420
400-58219-8MSD	Matrix Spike Duplicate	T	Water	7470A	400-136420
400-58219-9	AJ 14	T	Water	7470A	400-136420
400-58219-10	AJ 15	T	Water	7470A	400-136420
Analysis Batch:400-136486					
LCS 400-136301/20-A	Lab Control Sample	T	Solid	6010B	400-136301
MB 400-136301/19-A	Method Blank	T	Solid	6010B	400-136301
LCS 400-136361/25-A	Lab Control Sample	T	Water	6010B	400-136361
MB 400-136361/24-A	Method Blank	T	Water	6010B	400-136361
400-58214-E-1-B MS	Matrix Spike	T	Water	6010B	400-136361
400-58214-E-1-C MSD	Matrix Spike Duplicate	T	Water	6010B	400-136361
400-58219-1	AJ 1	T	Water	6010B	400-136361
400-58219-2	AJ 3	T	Water	6010B	400-136361
400-58219-3	AJ 5	T	Water	6010B	400-136361
400-58219-4	AJ 7	T	Water	6010B	400-136361
400-58219-5	AJ 8	T	Water	6010B	400-136361
400-58219-6	AJ 9	T	Water	6010B	400-136361
400-58219-7	AJ 10	T	Water	6010B	400-136361
400-58219-8	AJ 13	T	Water	6010B	400-136361
400-58219-9	AJ 14	T	Water	6010B	400-136361
400-58219-10	AJ 15	T	Water	6010B	400-136361
400-58219-11	AJS 1	T	Solid	6010B	400-136301
400-58219-12	AJS 4	T	Solid	6010B	400-136301
400-58219-13	AJS 5	T	Solid	6010B	400-136301
400-58219-14	AJS 3	T	Solid	6010B	400-136301
400-58222-A-1-B MS	Matrix Spike	T	Solid	6010B	400-136301
400-58222-A-1-C MSD	Matrix Spike Duplicate	T	Solid	6010B	400-136301

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 400-136573					
LCS 400-136573/15-A	Lab Control Sample	T	Solid	7471A	
MB 400-136573/14-A	Method Blank	T	Solid	7471A	
400-58219-11	AJS 1	T	Solid	7471A	
400-58219-12	AJS 4	T	Solid	7471A	
400-58219-13	AJS 5	T	Solid	7471A	
400-58219-14	AJS 3	T	Solid	7471A	
400-58222-B-1-E MS	Matrix Spike	T	Solid	7471A	
400-58222-B-1-F MSD	Matrix Spike Duplicate	T	Solid	7471A	
Analysis Batch:400-136702					
LCS 400-136573/15-A	Lab Control Sample	T	Solid	7471A	400-136573
MB 400-136573/14-A	Method Blank	T	Solid	7471A	400-136573
400-58219-11	AJS 1	T	Solid	7471A	400-136573
400-58219-12	AJS 4	T	Solid	7471A	400-136573
400-58219-13	AJS 5	T	Solid	7471A	400-136573
400-58219-14	AJS 3	T	Solid	7471A	400-136573
400-58222-B-1-E MS	Matrix Spike	T	Solid	7471A	400-136573
400-58222-B-1-F MSD	Matrix Spike Duplicate	T	Solid	7471A	400-136573

Report Basis

T = Total

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:700-104116					
LCS 700-104116/4	Lab Control Sample	T	Water	SM 4500 CN M	
LCSD 700-104116/5	Lab Control Sample Duplicate	T	Water	SM 4500 CN M	
400-58219-1	AJ 1	T	Water	SM 4500 CN M	
400-58219-2	AJ 3	T	Water	SM 4500 CN M	
400-58219-3	AJ 5	T	Water	SM 4500 CN M	
400-58219-4	AJ 7	T	Water	SM 4500 CN M	
400-58219-5	AJ 8	T	Water	SM 4500 CN M	
400-58219-6	AJ 9	T	Water	SM 4500 CN M	
400-58219-7	AJ 10	T	Water	SM 4500 CN M	
400-58219-8	AJ 13	T	Water	SM 4500 CN M	
400-58219-9	AJ 14	T	Water	SM 4500 CN M	
400-58219-10	AJ 15	T	Water	SM 4500 CN M	
700-60198-A-2 MS	Matrix Spike	T	Water	SM 4500 CN M	
700-60198-A-2 MSD	Matrix Spike Duplicate	T	Water	SM 4500 CN M	
Analysis Batch:400-136307					
400-58219-11	AJS 1	T	Solid	Moisture	
400-58219-12	AJS 4	T	Solid	Moisture	
400-58219-13	AJS 5	T	Solid	Moisture	
400-58219-14	AJS 3	T	Solid	Moisture	

Report Basis

T = Total

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

Method Blank - Batch: 400-136356

**Method: FL-PRO
Preparation: 3520C**

Lab Sample ID: MB 400-136356/17-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 08/02/2011 2038
Prep Date: 08/01/2011 0932
Leach Date: N/A

Analysis Batch: 400-136495
Prep Batch: 400-136356
Leach Batch: N/A
Units: mg/L

Instrument ID: WALLE
Lab File ID: mb
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.9 mL
Injection Volume: 1 uL

Analyte	Result	Qual	RL
C8-C40	ND		0.14

Surrogate	% Rec	Acceptance Limits
n-C39	65	20 - 176
o-Terphenyl	75	49 - 143

Lab Control Sample - Batch: 400-136356

**Method: FL-PRO
Preparation: 3520C**

Lab Sample ID: LCS 400-136356/16-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 08/02/2011 2048
Prep Date: 08/01/2011 0932
Leach Date: N/A

Analysis Batch: 400-136495
Prep Batch: 400-136356
Leach Batch: N/A
Units: mg/L

Instrument ID: WALLE
Lab File ID: lcs
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.9 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C8-C40	3.40	2.82	83	41 - 133	

Surrogate	% Rec	Acceptance Limits
n-C39	65	20 - 176
o-Terphenyl	76	49 - 143

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

Method Blank - Batch: 400-136376

**Method: FL-PRO
Preparation: 3550B**

Lab Sample ID:	MB 400-136376/13-A	Analysis Batch:	400-136407	Instrument ID:	WALLE
Client Matrix:	Solid	Prep Batch:	400-136376	Lab File ID:	mb
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	08/02/2011 1132	Units:	mg/Kg	Final Weight/Volume:	1.9 mL
Prep Date:	08/01/2011 1044			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	RL
C8-C40	ND		9.5

Surrogate	% Rec	Acceptance Limits
n-C39	65	37 - 138
o-Terphenyl	69	50 - 121

Lab Control Sample - Batch: 400-136376

**Method: FL-PRO
Preparation: 3550B**

Lab Sample ID:	LCS 400-136376/12-A	Analysis Batch:	400-136407	Instrument ID:	WALLE
Client Matrix:	Solid	Prep Batch:	400-136376	Lab File ID:	lcs
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	08/02/2011 1142	Units:	mg/Kg	Final Weight/Volume:	2.3 mL
Prep Date:	08/01/2011 1044			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C8-C40	113	90.0	79	50 - 124	

Surrogate	% Rec	Acceptance Limits
n-C39	60	37 - 138
o-Terphenyl	73	50 - 121

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136376**

**Method: FL-PRO
Preparation: 3550B**

MS Lab Sample ID: 400-58219-14
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/02/2011 1251
Prep Date: 08/01/2011 1044
Leach Date: N/A

Analysis Batch: 400-136407
Prep Batch: 400-136376
Leach Batch: N/A

Instrument ID: WALLE
Lab File ID: 400-58219-a-14-d
Initial Weight/Volume: 30.18 g
Final Weight/Volume: 2.4 mL
Injection Volume: 1 uL

MSD Lab Sample ID: 400-58219-14
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/02/2011 1310
Prep Date: 08/01/2011 1044
Leach Date: N/A

Analysis Batch: 400-136407
Prep Batch: 400-136376
Leach Batch: N/A

Instrument ID: WALLE
Lab File ID: 400-58219-a-14-e
Initial Weight/Volume: 30.26 g
Final Weight/Volume: 2.5 mL
Injection Volume: 1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
C8-C40	67	63	11 - 154	6	50		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
n-C39		54	54			37 - 138	
o-Terphenyl		62	63			50 - 121	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136376**

**Method: FL-PRO
Preparation: 3550B**

MS Lab Sample ID: 400-58219-14
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/02/2011 1251
Prep Date: 08/01/2011 1044
Leach Date: N/A

Units: mg/Kg

MSD Lab Sample ID: 400-58219-14
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 08/02/2011 1310
Prep Date: 08/01/2011 1044
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
C8-C40	ND	132	132	87.9	82.7

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

Method Blank - Batch: 400-136301

**Method: 6010B
Preparation: 3050B**

Lab Sample ID:	MB 400-136301/19-A	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Client Matrix:	Solid	Prep Batch:	400-136301	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.500 g
Analysis Date:	08/02/2011 1528	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/29/2011 1637				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Arsenic	ND		0.50
Cadmium	ND		0.50
Lead	ND		0.50

Lab Control Sample - Batch: 400-136301

**Method: 6010B
Preparation: 3050B**

Lab Sample ID:	LCS 400-136301/20-A	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Client Matrix:	Solid	Prep Batch:	400-136301	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.510 g
Analysis Date:	08/02/2011 1531	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/29/2011 1637				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	134	129	96	83 - 118	
Cadmium	83.3	81.8	98	84 - 116	
Lead	118	130	110	83 - 117	

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136301**

**Method: 6010B
Preparation: 3050B**

MS Lab Sample ID:	400-58222-A-1-B MS	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Client Matrix:	Solid	Prep Batch:	400-136301	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.535 g
Analysis Date:	08/02/2011 1624			Final Weight/Volume:	50 mL
Prep Date:	07/29/2011 1637				
Leach Date:	N/A				

MSD Lab Sample ID:	400-58222-A-1-C MSD	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Client Matrix:	Solid	Prep Batch:	400-136301	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.526 g
Analysis Date:	08/02/2011 1627			Final Weight/Volume:	50 mL
Prep Date:	07/29/2011 1637				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Arsenic	82	85	75 - 125	3	20		
Cadmium	91	91	75 - 125	1	20		
Lead	98	98	75 - 125	1	20		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136301**

**Method: 6010B
Preparation: 3050B**

MS Lab Sample ID:	400-58222-A-1-B MS	Units:	mg/Kg
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	08/02/2011 1624		
Prep Date:	07/29/2011 1637		
Leach Date:	N/A		

MSD Lab Sample ID:	400-58222-A-1-C MSD
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	08/02/2011 1627
Prep Date:	07/29/2011 1637
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	57	108	110	145	150
Cadmium	ND	54.0	54.9	49.5	50.2
Lead	27	108	110	134	134

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

Method Blank - Batch: 400-136361

**Method: 6010B
Preparation: 3010A**

Lab Sample ID:	MB 400-136361/24-A	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Client Matrix:	Water	Prep Batch:	400-136361	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/02/2011 1228	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/01/2011 0946				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Arsenic	ND		0.0050
Cadmium	ND		0.0050
Copper	ND		0.010
Lead	ND		0.0050
Zinc	ND		0.020

Lab Control Sample - Batch: 400-136361

**Method: 6010B
Preparation: 3010A**

Lab Sample ID:	LCS 400-136361/25-A	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Client Matrix:	Water	Prep Batch:	400-136361	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/02/2011 1231	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/01/2011 0946				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1.00	0.968	97	80 - 120	
Cadmium	0.500	0.499	100	80 - 120	
Copper	1.00	1.02	102	80 - 120	
Lead	1.00	0.985	98	80 - 120	
Zinc	1.00	0.984	98	80 - 120	

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136361**

**Method: 6010B
Preparation: 3010A**

MS Lab Sample ID:	400-58214-E-1-B MS	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Client Matrix:	Water	Prep Batch:	400-136361	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/02/2011 1241			Final Weight/Volume:	50 mL
Prep Date:	08/01/2011 0946				
Leach Date:	N/A				

MSD Lab Sample ID:	400-58214-E-1-C MSD	Analysis Batch:	400-136486	Instrument ID:	6500 ICP Duo
Client Matrix:	Water	Prep Batch:	400-136361	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/02/2011 1244			Final Weight/Volume:	50 mL
Prep Date:	08/01/2011 0946				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Arsenic	98	97	75 - 125	1	20		
Cadmium	101	99	75 - 125	2	20		
Copper	104	102	75 - 125	2	20		
Lead	101	99	75 - 125	2	20		
Zinc	100	99	75 - 125	2	20		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136361**

**Method: 6010B
Preparation: 3010A**

MS Lab Sample ID:	400-58214-E-1-B MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	08/02/2011 1241		
Prep Date:	08/01/2011 0946		
Leach Date:	N/A		

MSD Lab Sample ID:	400-58214-E-1-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	08/02/2011 1244
Prep Date:	08/01/2011 0946
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	ND	1.00	1.00	0.978	0.967
Cadmium	ND	0.500	0.500	0.504	0.495
Copper	ND	1.00	1.00	1.04	1.02
Lead	ND	1.00	1.00	1.01	0.992
Zinc	0.022	1.00	1.00	1.03	1.01

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

Method Blank - Batch: 400-136420

Lab Sample ID: MB 400-136420/14-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/02/2011 1316
 Prep Date: 08/02/2011 0830
 Leach Date: N/A

Analysis Batch: 400-136476
 Prep Batch: 400-136420
 Leach Batch: N/A
 Units: mg/L

**Method: 7470A
 Preparation: 7470A**

Instrument ID: HYDRA AA
 Lab File ID: HW136420.PRN
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Lab Control Sample - Batch: 400-136420

Lab Sample ID: LCS 400-136420/15-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/02/2011 1318
 Prep Date: 08/02/2011 0830
 Leach Date: N/A

Analysis Batch: 400-136476
 Prep Batch: 400-136420
 Leach Batch: N/A
 Units: mg/L

**Method: 7470A
 Preparation: 7470A**

Instrument ID: HYDRA AA
 Lab File ID: HW136420.PRN
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00100	0.000979	98	80 - 120	

**Matrix Spike/
 Matrix Spike Duplicate Recovery Report - Batch: 400-136420**

**Method: 7470A
 Preparation: 7470A**

MS Lab Sample ID: 400-58219-8
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/02/2011 1419
 Prep Date: 08/02/2011 0830
 Leach Date: N/A

Analysis Batch: 400-136476
 Prep Batch: 400-136420
 Leach Batch: N/A

Instrument ID: HYDRA AA
 Lab File ID: HW136420.PRN
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

MSD Lab Sample ID: 400-58219-8
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/02/2011 1424
 Prep Date: 08/02/2011 0830
 Leach Date: N/A

Analysis Batch: 400-136476
 Prep Batch: 400-136420
 Leach Batch: N/A

Instrument ID: HYDRA AA
 Lab File ID: HW136420.PRN
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	105	103	85 - 115	1	20		

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136420**

**Method: 7470A
Preparation: 7470A**

MS Lab Sample ID: 400-58219-8 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 08/02/2011 1419
Prep Date: 08/02/2011 0830
Leach Date: N/A

MSD Lab Sample ID: 400-58219-8
Client Matrix: Water
Dilution: 1.0
Analysis Date: 08/02/2011 1424
Prep Date: 08/02/2011 0830
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	ND	0.00200	0.00200	0.00209	0.00206

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

Method Blank - Batch: 400-136573

Lab Sample ID: MB 400-136573/14-A
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 08/05/2011 1131
 Prep Date: 08/05/2011 0800
 Leach Date: N/A

Analysis Batch: 400-136702
 Prep Batch: 400-136573
 Leach Batch: N/A
 Units: mg/Kg

**Method: 7471A
 Preparation: 7471A**

Instrument ID: HYDRA AA
 Lab File ID: HS136573A.PRN
 Initial Weight/Volume: .6000 g
 Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Mercury	ND		0.013

Lab Control Sample - Batch: 400-136573

Lab Sample ID: LCS 400-136573/15-A
 Client Matrix: Solid
 Dilution: 10
 Analysis Date: 08/05/2011 1132
 Prep Date: 08/05/2011 0800
 Leach Date: N/A

Analysis Batch: 400-136702
 Prep Batch: 400-136573
 Leach Batch: N/A
 Units: mg/Kg

**Method: 7471A
 Preparation: 7471A**

Instrument ID: HYDRA AA
 Lab File ID: HS136573A.PRN
 Initial Weight/Volume: .2060 g
 Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	7.47	7.07	95	80 - 120	

**Matrix Spike/
 Matrix Spike Duplicate Recovery Report - Batch: 400-136573**

MS Lab Sample ID: 400-58222-B-1-E MS
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 08/05/2011 1154
 Prep Date: 08/05/2011 0800
 Leach Date: N/A

Analysis Batch: 400-136702
 Prep Batch: 400-136573
 Leach Batch: N/A

**Method: 7471A
 Preparation: 7471A**

Instrument ID: HYDRA AA
 Lab File ID: HS136573A.PRN
 Initial Weight/Volume: .6055 g
 Final Weight/Volume: 40 mL

MSD Lab Sample ID: 400-58222-B-1-F MSD
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 08/05/2011 1155
 Prep Date: 08/05/2011 0800
 Leach Date: N/A

Analysis Batch: 400-136702
 Prep Batch: 400-136573
 Leach Batch: N/A

Instrument ID: HYDRA AA
 Lab File ID: HS136573A.PRN
 Initial Weight/Volume: .6096 g
 Final Weight/Volume: 40 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	109	98	80 - 120	6	20		

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136573**

**Method: 7471A
Preparation: 7471A**

MS Lab Sample ID: 400-58222-B-1-E MS Units: mg/Kg
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 08/05/2011 1154
 Prep Date: 08/05/2011 0800
 Leach Date: N/A

MSD Lab Sample ID: 400-58222-B-1-F MSD
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 08/05/2011 1155
 Prep Date: 08/05/2011 0800
 Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.13	0.153	0.152	0.295	0.277

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

Method Reporting Limit Check - Batch: 700-104116

**Method: SM 4500 CN M
Preparation: N/A**

Lab Sample ID:	MRL 700-104116/3	Analysis Batch:	700-104116	Instrument ID:	KONELAB
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	DATA08.04.11A1SCN.
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	08/04/2011 1402	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Thiocyanate	0.100	ND	77		

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-104116**

**Method: SM 4500 CN M
Preparation: N/A**

LCS Lab Sample ID:	LCS 700-104116/4	Analysis Batch:	700-104116	Instrument ID:	KONELAB
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	DATA08.04.11A1SCN.
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	08/04/2011 1402	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 700-104116/5	Analysis Batch:	700-104116	Instrument ID:	KONELAB
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	DATA08.04.11A1SCN.
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	08/04/2011 1402	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Thiocyanate	103	102	80 - 120	1.3	25.0		

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 700-104116**

**Method: SM 4500 CN M
Preparation: N/A**

LCS Lab Sample ID:	LCS 700-104116/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 700-104116/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	08/04/2011 1402			Analysis Date:	08/04/2011 1402
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Thiocyanate	1.00	1.00	1.04	1.02

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-104116**

**Method: SM 4500 CN M
Preparation: N/A**

MS Lab Sample ID:	700-60198-A-2 MS	Analysis Batch:	700-104116	Instrument ID:	KONELAB
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	DATA08.04.11A1SCN.
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	08/04/2011 1402			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	700-60198-A-2 MSD	Analysis Batch:	700-104116	Instrument ID:	KONELAB
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	DATA08.04.11A1SCN.
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	08/04/2011 1402			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Thiocyanate	113	113	75 - 125	0	25		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-104116**

**Method: SM 4500 CN M
Preparation: N/A**

MS Lab Sample ID:	700-60198-A-2 MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	08/04/2011 1402		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	700-60198-A-2 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	08/04/2011 1402
Prep Date:	N/A
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Thiocyanate	0.25	1.00	1.00	1.38	1.38

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
-------------	-----------	-------------

FDEP Facility No. _____
 Page 1 of 2
 Sampling CompOAP No. _____
 Approval Date: _____

INTERNATIONAL ANALYTICAL GROUP 400-58219
 CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))
 5555 HOLLYWOOD BOULEVARD, SUITE 301, HOLLYWOOD, FLORIDA 33021
 PHONE: 954-894-4023 • FAX: 954-894-4501 • CELLULAR: 954-494-3272

Submission Code: _____
 Orders: _____
 Entered to IIMS: _____

Original - Return w/ Report
 Yellow - Lab Copy
 Pink - Sampler Copy

Report To: **INTERNATIONAL ANALYTICAL GROUP (IAG)**
 Billing Address: **P.O. BOX 814407, HOLLYWOOD, FLORIDA 33081-4407**
 Project Number/Name: AUGSAM
 Project Contact: Carlton Campbell Phone: 876 371 2267
 Alternate Contact: _____ Phone: _____
 Sampled By (print): MATT HAW CEE Sampler's Signature: [Signature]

ITEM	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	PH	TEMP °C	COND	MATRIX	SAMPLE LOCATION/ JOB DESCRIPTION	# CONTAINERS	ANALYSIS REQUIRED	Sample Condition as Received			
											Temp	C	Sealed	Yes
1	AJ1	7/25/11	19:45				SW		4	TPH, Thiocyanate, Lead, Cyanide, Cadmium, Zinc, Arsenic, Copper, Mercury	13.6°C			
2	AJ3		11:50				SW		4		17.4°C			
3	AJ5		11:55				SW		4					
4	AJ7		10:20				SW		4					
5	AJ8		10:20				SW		4					
6	AJ9		12:30				SW		4					
7	AJ10		12:40				SW		4					
8	AJ13		9:30 AM				GW		4					
9	AJ14		9:30				GW		4					
10	AJ15		11:40				SW		4					

Special Comments: email results to clemiro@ewlanamica.com

QA/QC Report Needed?: Yes No (See price guide for applicable fees)
 Report Format: Standard Other (specify)

(1) Relinquished by Signature: [Signature] Date: 7/25/11
 Company: C.L.E.

(2) Relinquished by Signature: [Signature] Date: 7/29/11
 Company: _____

(1) Received by Signature: _____ Date: _____
 Company: _____

(2) Received by Signature: [Signature] Date: 7/29/11
 Company: _____

Coating Code: _____ G / L / D
 Misc. Charges
 SHADED AREAS ARE FOR LAB USE ONLY

INTERNATIONAL ANALYTICAL GROUP
 CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))
 5555 HOLLYWOOD BOULEVARD, SUITE 301, HOLLYWOOD, FLORIDA 33021
 PHONE: 954-894-4023 • FAX: 954-894-4501 • CELLULAR: 954-494-3272

FDEP Facility No. _____
 Page 2 of 2
 Sampling CompOAP No. _____
 Approval Date: _____

Original - Return w/ Report
 Yellow - Lab Copy
 Pink - Sampler Copy

Report To: **INTERNATIONAL ANALYTICAL GROUP (IAG)**
 Billing Address: **P.O. BOX 814407, HOLLYWOOD, FLORIDA 33081-4407**
 Project Number/Name: Aug 11
 Project Contact: Carston Campbell Phone: 876 371 2267
 Alternate Contact: Matthew Lee Phone: _____
 Sampled By (print): Matthew Lee Sampler's Signature: [Signature]

ITEM	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	pH	TEMP °C	COND	MATRIX	SAMPLE LOCATION/JOB DESCRIPTION	# CONTAINERS	ANALYSIS REQUIRED <small>PLACE NAME OR METHOD NUMBER OF TESTS NEEDED IN LARGE BOXES BELOW. (✓) CHECK OFF WHICH SAMPLE ITEMS NEED EACH TEST PERFORMED</small>	Sample Condition as Received: Temp _____ C Sealed Yes No	Lot Number of Sampling Containers Used
1	A351	7/25/11	9:30am				SS		1	✓		
2	A354	7/25/11	12:50				SS		1	✓		
3	A355	7/25/11	12:30				SS		1	✓		
4	A353	7/25/11	11:00				SS		1	✓		
5												
6												
7												
8												
9												
10												

QA/QC Report Needed?: Yes No (See price guide for applicable fees)
 Report Format: Standard Other (specify) _____
 Total # of Containers: 4

Special Comments: email results to cleary@iag.com
 Relinquished by Signature: [Signature] Date: 7/25/11
 Relinquished by Signature: [Signature] Date: 7/28/11
 Company: C.L.E
 Received by Signature: [Signature] Date: 7/28/11
 Received by Signature: [Signature] Date: 7/28/11
 Coating Code: _____ Q / L / D
 Misc. Charges
 SHADED AREAS ARE FOR LAB USE ONLY

Login Sample Receipt Checklist

Client: CL Environmental

Job Number: 400-58219-1

Login Number: 58219

List Source: TestAmerica Pensacola

List Number: 1

Creator: Hor, Koma

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	True	18.6°C, 17.4°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: CL Environmental

Job Number: 400-58219-1

Login Number: 58219

List Number: 1

Creator: Nou, Toum N

List Source: TestAmerica Mobile

List Creation: 07/30/11 09:17 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7C # 3509
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



REVIEW OF ANALYTICAL REPORT

JOB NUMBER: 400-58219-2

AUSJAM GOLD MINE

International Analytical Group, Inc. (IAG) has conducted an independent, third party review of the above referenced analytical report. The samples were analyzed by Test America Pensacola , a NELAC certified laboratory in Pensacola, Florida.

If you have any questions regarding this analytical report, please contact Maria Jackson at maria@iagenvironmental.com or (954) 894-4023.



ANALYTICAL REPORT

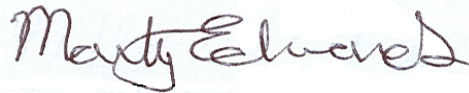
Job Number: 400-58219-2

Job Description: AusJam Gold Mine

For:

CL Environmental
22 Fort George Heights
Stony Hill,
Kingston 8, Jamaica

Attention: Carlton Campbell



Approved for release.
Marty Edwards
Senior Project Manager
8/1/2011 10:37 AM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
08/01/2011

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

TestAmerica Laboratories, Inc.

TestAmerica Pensacola 3355 McLemore Drive, Pensacola, FL 32514

Tel (850) 474-1001 Fax (850) 478-2671 www.testamericainc.com



Comments

No additional comments.

Receipt

All samples were received in good condition @ 18.6°C, 17.4°C.

General Chemistry

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: CL Environmental

Job Number: 400-58219-2

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
400-58219-1 Cyanide, Total	AJ 1	32		0.50	mg/L	335.2
400-58219-2 Cyanide, Total	AJ 3	43		0.50	mg/L	335.2
400-58219-3 Cyanide, Total	AJ 5	42		0.50	mg/L	335.2
400-58219-4 Cyanide, Total	AJ 7	40		0.50	mg/L	335.2
400-58219-5 Cyanide, Total	AJ 8	31		0.50	mg/L	335.2
400-58219-6 Cyanide, Total	AJ 9	0.024		0.0050	mg/L	335.2
400-58219-7 Cyanide, Total	AJ 10	0.0079		0.0050	mg/L	335.2
400-58219-8 Cyanide, Total	AJ 13	0.043		0.0050	mg/L	335.2
400-58219-9 Cyanide, Total	AJ 14	0.010		0.0050	mg/L	335.2
400-58219-10 Cyanide, Total	AJ 15	40		0.50	mg/L	335.2
400-58219-11 Cyanide, Total	AJS 1	23		0.41	mg/Kg	9014
400-58219-12 Cyanide, Total	AJS 4	170		3.6	mg/Kg	9014

EXECUTIVE SUMMARY - Detections

Client: CL Environmental

Job Number: 400-58219-2

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
400-58219-13 Cyanide, Total	AJS 5	7.9		0.32	mg/Kg	9014
400-58219-14 Cyanide, Total	AJS 3	8.0		0.29	mg/Kg	9014

METHOD SUMMARY

Client: CL Environmental

Job Number: 400-58219-2

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Cyanide Cyanide, Distillation	TAL PEN	SW846 9014	SW846 9010B
Matrix Water			
Cyanide Distillation, Cyanide	TAL PEN	EPA 335.2	Distill/CN

Lab References:

TAL PEN = TestAmerica Pensacola

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: CL Environmental

Job Number: 400-58219-2

Method	Analyst	Analyst ID
EPA 335.2	Brooks, Barbara	BB
SW846 9014	Brooks, Barbara	BB

SAMPLE SUMMARY

Client: CL Environmental

Job Number: 400-58219-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-58219-1	AJ 1	Water	07/25/2011 1145	07/29/2011 1027
400-58219-2	AJ 3	Water	07/25/2011 1150	07/29/2011 1027
400-58219-3	AJ 5	Water	07/25/2011 1155	07/29/2011 1027
400-58219-4	AJ 7	Water	07/25/2011 1000	07/29/2011 1027
400-58219-5	AJ 8	Water	07/25/2011 1020	07/29/2011 1027
400-58219-6	AJ 9	Water	07/25/2011 1230	07/29/2011 1027
400-58219-7	AJ 10	Water	07/25/2011 1240	07/29/2011 1027
400-58219-8	AJ 13	Water	07/25/2011 0930	07/29/2011 1027
400-58219-9	AJ 14	Water	07/25/2011 0930	07/29/2011 1027
400-58219-10	AJ 15	Water	07/25/2011 1140	07/29/2011 1027
400-58219-11	AJS 1	Solid	07/25/2011 0930	07/29/2011 1027
400-58219-12	AJS 4	Solid	07/25/2011 1000	07/29/2011 1027
400-58219-13	AJS 5	Solid	07/25/2011 1030	07/29/2011 1027
400-58219-14	AJS 3	Solid	07/25/2011 1100	07/29/2011 1027

SAMPLE RESULTS

Client: CL Environmental

Job Number: 400-58219-2

General Chemistry

Client Sample ID: AJ 1

Lab Sample ID: 400-58219-1

Date Sampled: 07/25/2011 1145

Client Matrix: Water

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	32		mg/L	0.50	100	335.2
	Analysis Batch: 400-136302	Analysis Date: 07/29/2011 1640				
	Prep Batch: 400-136185	Prep Date: 07/29/2011 1345				

Client: CL Environmental

Job Number: 400-58219-2

General Chemistry

Client Sample ID: AJ 3

Lab Sample ID: 400-58219-2

Date Sampled: 07/25/2011 1150

Client Matrix: Water

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	43		mg/L	0.50	100	335.2
	Analysis Batch: 400-136302	Analysis Date: 07/29/2011 1833				
	Prep Batch: 400-136185	Prep Date: 07/29/2011 1345				

Client: CL Environmental

Job Number: 400-58219-2

General Chemistry

Client Sample ID: AJ 5

Lab Sample ID: 400-58219-3

Date Sampled: 07/25/2011 1155

Client Matrix: Water

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	42		mg/L	0.50	100	335.2
	Analysis Batch: 400-136302	Analysis Date: 07/29/2011 1835				
	Prep Batch: 400-136185	Prep Date: 07/29/2011 1345				

Client: CL Environmental

Job Number: 400-58219-2

General Chemistry

Client Sample ID: AJ 7

Lab Sample ID: 400-58219-4

Date Sampled: 07/25/2011 1000

Client Matrix: Water

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	40		mg/L	0.50	100	335.2
	Analysis Batch: 400-136302	Analysis Date: 07/29/2011 1835				
	Prep Batch: 400-136185	Prep Date: 07/29/2011 1345				

Client: CL Environmental

Job Number: 400-58219-2

General Chemistry

Client Sample ID: AJ 8

Lab Sample ID: 400-58219-5

Date Sampled: 07/25/2011 1020

Client Matrix: Water

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	31		mg/L	0.50	100	335.2
	Analysis Batch: 400-136302	Analysis Date: 07/29/2011 1835				
	Prep Batch: 400-136185	Prep Date: 07/29/2011 1345				

Client: CL Environmental

Job Number: 400-58219-2

General Chemistry

Client Sample ID: AJ 9

Lab Sample ID: 400-58219-6

Date Sampled: 07/25/2011 1230

Client Matrix: Water

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	0.024		mg/L	0.0050	1.0	335.2
	Analysis Batch: 400-136302	Analysis Date: 07/29/2011 1643				
	Prep Batch: 400-136185	Prep Date: 07/29/2011 1345				

Client: CL Environmental

Job Number: 400-58219-2

General Chemistry

Client Sample ID: AJ 10

Lab Sample ID: 400-58219-7

Client Matrix: Water

Date Sampled: 07/25/2011 1240

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	0.0079		mg/L	0.0050	1.0	335.2
	Analysis Batch: 400-136302	Analysis Date: 07/29/2011 1643				
	Prep Batch: 400-136185	Prep Date: 07/29/2011 1345				

Client: CL Environmental

Job Number: 400-58219-2

General Chemistry

Client Sample ID: AJ 13

Lab Sample ID: 400-58219-8

Date Sampled: 07/25/2011 0930

Client Matrix: Water

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	0.043		mg/L	0.0050	1.0	335.2
	Analysis Batch: 400-136302	Analysis Date: 07/29/2011 1643				
	Prep Batch: 400-136185	Prep Date: 07/29/2011 1345				

Client: CL Environmental

Job Number: 400-58219-2

General Chemistry

Client Sample ID: AJ 14

Lab Sample ID: 400-58219-9

Date Sampled: 07/25/2011 0930

Client Matrix: Water

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	0.010		mg/L	0.0050	1.0	335.2
	Analysis Batch: 400-136302	Analysis Date: 07/29/2011 1643				
	Prep Batch: 400-136185	Prep Date: 07/29/2011 1345				

Client: CL Environmental

Job Number: 400-58219-2

General Chemistry

Client Sample ID: AJ 15

Lab Sample ID: 400-58219-10

Date Sampled: 07/25/2011 1140

Client Matrix: Water

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	40		mg/L	0.50	100	335.2
	Analysis Batch: 400-136302	Analysis Date: 07/29/2011 1756				
	Prep Batch: 400-136185	Prep Date: 07/29/2011 1345				

Client: CL Environmental

Job Number: 400-58219-2

General Chemistry

Client Sample ID: AJS 1

Lab Sample ID: 400-58219-11

Date Sampled: 07/25/2011 0930

Client Matrix: Solid

% Moisture: 39.4

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	23		mg/Kg	0.41	1.0	9014
	Analysis Batch: 400-136304	Analysis Date: 07/29/2011 1826				DryWt Corrected: Y
	Prep Batch: 400-136230	Prep Date: 07/29/2011 0855				

Client: CL Environmental

Job Number: 400-58219-2

General Chemistry

Client Sample ID: AJS 4

Lab Sample ID: 400-58219-12

Date Sampled: 07/25/2011 1000

Client Matrix: Solid

% Moisture: 29.6

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	170		mg/Kg	3.6	10	9014
	Analysis Batch: 400-136304	Analysis Date: 07/29/2011 1926				DryWt Corrected: Y
	Prep Batch: 400-136230	Prep Date: 07/29/2011 0855				

Client: CL Environmental

Job Number: 400-58219-2

General Chemistry

Client Sample ID: AJS 5

Lab Sample ID: 400-58219-13

Date Sampled: 07/25/2011 1030

Client Matrix: Solid

% Moisture: 22.4

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	7.9		mg/Kg	0.32	1.0	9014
	Analysis Batch: 400-136304	Analysis Date: 07/29/2011 1826				DryWt Corrected: Y
	Prep Batch: 400-136230	Prep Date: 07/29/2011 0855				

Client: CL Environmental

Job Number: 400-58219-2

General Chemistry

Client Sample ID: AJS 3

Lab Sample ID: 400-58219-14

Date Sampled: 07/25/2011 1100

Client Matrix: Solid

% Moisture: 14.6

Date Received: 07/29/2011 1027

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	8.0		mg/Kg	0.29	1.0	9014
	Analysis Batch: 400-136304	Analysis Date: 07/29/2011 1826				DryWt Corrected: Y
	Prep Batch: 400-136230	Prep Date: 07/29/2011 0855				

QUALITY CONTROL RESULTS

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Prep Batch: 400-136185					
LCS 400-136185/2-A	Lab Control Sample	T	Water	Distill/CN	
MB 400-136185/1-A	Method Blank	T	Water	Distill/CN	
400-58168-B-1-B MS	Matrix Spike	T	Water	Distill/CN	
400-58168-B-1-C MSD	Matrix Spike Duplicate	T	Water	Distill/CN	
400-58219-1	AJ 1	T	Water	Distill/CN	
400-58219-2	AJ 3	T	Water	Distill/CN	
400-58219-3	AJ 5	T	Water	Distill/CN	
400-58219-4	AJ 7	T	Water	Distill/CN	
400-58219-5	AJ 8	T	Water	Distill/CN	
400-58219-6	AJ 9	T	Water	Distill/CN	
400-58219-7	AJ 10	T	Water	Distill/CN	
400-58219-8	AJ 13	T	Water	Distill/CN	
400-58219-8DU	Duplicate	T	Water	Distill/CN	
400-58219-9	AJ 14	T	Water	Distill/CN	
400-58219-10	AJ 15	T	Water	Distill/CN	
Prep Batch: 400-136230					
LCS 400-136230/2-A	Lab Control Sample	T	Solid	9010B	
MB 400-136230/1-A	Method Blank	T	Solid	9010B	
400-58168-A-3-C MS	Matrix Spike	T	Solid	9010B	
400-58168-A-3-D MSD	Matrix Spike Duplicate	T	Solid	9010B	
400-58219-11	AJS 1	T	Solid	9010B	
400-58219-12	AJS 4	T	Solid	9010B	
400-58219-13	AJS 5	T	Solid	9010B	
400-58219-14	AJS 3	T	Solid	9010B	
Analysis Batch:400-136302					
LCS 400-136185/2-A	Lab Control Sample	T	Water	335.2	400-136185
MB 400-136185/1-A	Method Blank	T	Water	335.2	400-136185
400-58168-B-1-B MS	Matrix Spike	T	Water	335.2	400-136185
400-58168-B-1-C MSD	Matrix Spike Duplicate	T	Water	335.2	400-136185
400-58219-1	AJ 1	T	Water	335.2	400-136185
400-58219-2	AJ 3	T	Water	335.2	400-136185
400-58219-3	AJ 5	T	Water	335.2	400-136185
400-58219-4	AJ 7	T	Water	335.2	400-136185
400-58219-5	AJ 8	T	Water	335.2	400-136185
400-58219-6	AJ 9	T	Water	335.2	400-136185
400-58219-7	AJ 10	T	Water	335.2	400-136185
400-58219-8	AJ 13	T	Water	335.2	400-136185
400-58219-8DU	Duplicate	T	Water	335.2	400-136185
400-58219-9	AJ 14	T	Water	335.2	400-136185
400-58219-10	AJ 15	T	Water	335.2	400-136185

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:400-136304					
LCS 400-136230/2-A	Lab Control Sample	T	Solid	9014	400-136230
MB 400-136230/1-A	Method Blank	T	Solid	9014	400-136230
400-58168-A-3-C MS	Matrix Spike	T	Solid	9014	400-136230
400-58168-A-3-D MSD	Matrix Spike Duplicate	T	Solid	9014	400-136230
400-58219-11	AJS 1	T	Solid	9014	400-136230
400-58219-12	AJS 4	T	Solid	9014	400-136230
400-58219-13	AJS 5	T	Solid	9014	400-136230
400-58219-14	AJS 3	T	Solid	9014	400-136230

Report Basis

T = Total

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-2

Method Blank - Batch: 400-136185

Lab Sample ID: MB 400-136185/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/29/2011 1502
 Prep Date: 07/28/2011 1345
 Leach Date: N/A

Analysis Batch: 400-136302
 Prep Batch: 400-136185
 Leach Batch: N/A
 Units: mg/L

**Method: 335.2
 Preparation: Distill/CN**

Instrument ID: KONELAB
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Cyanide, Total	ND		0.0050

Lab Control Sample - Batch: 400-136185

Lab Sample ID: LCS 400-136185/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/29/2011 1403
 Prep Date: 07/28/2011 1345
 Leach Date: N/A

Analysis Batch: 400-136302
 Prep Batch: 400-136185
 Leach Batch: N/A
 Units: mg/L

**Method: 335.2
 Preparation: Distill/CN**

Instrument ID: KONELAB
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.346	0.344	99	85 - 115	

**Matrix Spike/
 Matrix Spike Duplicate Recovery Report - Batch: 400-136185**

**Method: 335.2
 Preparation: Distill/CN**

MS Lab Sample ID: 400-58168-B-1-B MS
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/29/2011 1403
 Prep Date: 07/28/2011 1345
 Leach Date: N/A

Analysis Batch: 400-136302
 Prep Batch: 400-136185
 Leach Batch: N/A

Instrument ID: KONELAB
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 400-58168-B-1-C MSD
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/29/2011 1408
 Prep Date: 07/28/2011 1345
 Leach Date: N/A

Analysis Batch: 400-136302
 Prep Batch: 400-136185
 Leach Batch: N/A

Instrument ID: KONELAB
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Cyanide, Total	92	95	68 - 133	3	36		

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136185**

**Method: 335.2
Preparation: Distill/CN**

MS Lab Sample ID: 400-58168-B-1-B MS Units: mg/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/29/2011 1403
 Prep Date: 07/28/2011 1345
 Leach Date: N/A

MSD Lab Sample ID: 400-58168-B-1-C MSD
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/29/2011 1408
 Prep Date: 07/28/2011 1345
 Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cyanide, Total	ND	0.200	0.200	0.184	0.189

Duplicate - Batch: 400-136185

**Method: 335.2
Preparation: Distill/CN**

Lab Sample ID: 400-58219-8
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/29/2011 1643
 Prep Date: 07/29/2011 1345
 Leach Date: N/A

Analysis Batch: 400-136302
 Prep Batch: 400-136185
 Leach Batch: N/A
 Units: mg/L

Instrument ID: KONELAB
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Cyanide, Total	0.043	0.0211	69	36	F

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-2

Method Blank - Batch: 400-136230

**Method: 9014
Preparation: 9010B**

Lab Sample ID:	MB 400-136230/1-A	Analysis Batch:	400-136304	Instrument ID:	KONELAB
Client Matrix:	Solid	Prep Batch:	400-136230	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	07/29/2011 1403	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/29/2011 0855				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Cyanide, Total	ND		0.25

Lab Control Sample - Batch: 400-136230

**Method: 9014
Preparation: 9010B**

Lab Sample ID:	LCS 400-136230/2-A	Analysis Batch:	400-136304	Instrument ID:	KONELAB
Client Matrix:	Solid	Prep Batch:	400-136230	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	07/29/2011 1403	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/29/2011 0855				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	17.3	17.8	103	85 - 115	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136230**

**Method: 9014
Preparation: 9010B**

MS Lab Sample ID:	400-58168-A-3-C MS	Analysis Batch:	400-136304	Instrument ID:	KONELAB
Client Matrix:	Solid	Prep Batch:	400-136230	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	07/29/2011 1403			Final Weight/Volume:	50 mL
Prep Date:	07/29/2011 0855				
Leach Date:	N/A				

MSD Lab Sample ID:	400-58168-A-3-D MSD	Analysis Batch:	400-136304	Instrument ID:	KONELAB
Client Matrix:	Solid	Prep Batch:	400-136230	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	07/29/2011 1403			Final Weight/Volume:	50 mL
Prep Date:	07/29/2011 0855				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Cyanide, Total	101	96	57 - 136	5	20		

Quality Control Results

Client: CL Environmental

Job Number: 400-58219-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136230**

**Method: 9014
Preparation: 9010B**

MS Lab Sample ID: 400-58168-A-3-C MS Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 07/29/2011 1403
Prep Date: 07/29/2011 0855
Leach Date: N/A

MSD Lab Sample ID: 400-58168-A-3-D MSD
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 07/29/2011 1403
Prep Date: 07/29/2011 0855
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cyanide, Total	ND	11.7	11.7	11.8	11.2

DATA REPORTING QUALIFIERS

Client: CL Environmental

Job Number: 400-58219-2

Lab Section	Qualifier	Description
General Chemistry	F	Duplicate RPD exceeds the control limit

FDEP Facility No. _____
 Page 1 of 2
 Sampling CompOAP No. _____
 Approval Date: _____

INTERNATIONAL ANALYTICAL GROUP 400-58219
 CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))
 5555 HOLLYWOOD BOULEVARD, SUITE 301, HOLLYWOOD, FLORIDA 33021
 PHONE: 954-894-4023 • FAX: 954-894-4501 • CELLULAR: 954-494-3272

Submission Code: _____
 Orders: _____
 Entered to IIMS: _____

Original - Return w/ Report
 Yellow - Lab Copy
 Pink - Sampler Copy

Report To: **INTERNATIONAL ANALYTICAL GROUP (IAG)**
 Billing Address: **P.O. BOX 814407, HOLLYWOOD, FLORIDA 33081-4407**
 Project Number/Name: AUG Jam
 Project Contact: Carlton Campbell Phone: 876 371 2267
 Alternate Contact: _____ Phone: _____
 Sampled By (print): MATT HAW CEE Sampler's Signature: Matt Haw Cee

ITEM	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	PH	TEMP °C	COND	MATRIX	SAMPLE LOCATION/ JOB DESCRIPTION	# CONTAINERS	ANALYSIS REQUIRED	Sample Condition as Received	
											Temp	C
1	AJ1	7/25/11	19:45				SW		4	TPH, Thiocyanate, Lead, Cyanide, Cadmium, Zinc, Arsenic, Copper, Mercury.	13.6°C	
2	AJ3		11:50				SW		4		17.4°C	
3	AJ5		11:55				SW		4			
4	AJ7		10:20				SW		4			
5	AJ8		10:20				SW		4			
6	AJ9		12:30				SW		4			
7	AJ10		12:40				SW		4			
8	AJ13		9:30 AM				GW		4			
9	AJ14		9:30 AM				GW		4			
10	AJ15		11:40				SW		4			

Special Comments: email results to clemviro@ewlanamica.com

QA/QC Report Needed?: Yes No (See price guide for applicable fees)
 Report Format: Standard Other (specify)

(1) Relinquished by Signature: Matt Haw Cee Date: 7/25/11
 Company: C.L.E.
 (1) Received by Signature: _____ Date: _____
 Company: _____

(2) Relinquished by Signature: _____ Date: _____
 Company: _____
 (2) Received by Signature: _____ Date: 7/29/11
 Company: _____

Coating Code: _____ G / L / D
 Misc. Charges
 SHADED AREAS ARE FOR LAB USE ONLY

INTERNATIONAL ANALYTICAL GROUP
 CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))
 5555 HOLLYWOOD BOULEVARD, SUITE 301, HOLLYWOOD, FLORIDA 33021
 PHONE: 954-894-4023 • FAX: 954-894-4501 • CELLULAR: 954-494-3272

FDEP Facility No. _____
 Page 2 of 2
 Sampling CompOAP No. _____
 Approval Date: _____

Original - Return w/ Report
 Yellow - Lab Copy
 Pink - Sampler Copy

Report To: **INTERNATIONAL ANALYTICAL GROUP (IAG)**
 Billing Address: **P.O. BOX 814407, HOLLYWOOD, FLORIDA 33081-4407**
 Project Number/Name: Aug 11
 Project Contact: Carston Campbell Phone: 876 371 2267
 Alternate Contact: _____ Phone: _____
 Sampled By (print): Matthew Lee Sampler's Signature: [Signature]

ITEM	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	pH	TEMP °C	COND	MATRIX	SAMPLE LOCATION/ JOB DESCRIPTION	# CONTAINERS	ANALYSIS REQUIRED	Sample Condition as Received:	
											Temp	C
1	A351	7/25/11	9:30am				SS		1	Lead, Cadmium, Arsenic, Mercury, Cyanide, TPH.		
2	A354		12:50				SS		1			
3	A355		12:30				SS		1			
4	A353		11:00				SS		1			
5												
6												
7												
8												
9												
10												

Special Comments: email results to clea.viro
 QA/QC Report Needed?: Yes No (See price guide for applicable fees)
 Report Format: Standard Other (specify)

(1) Relinquished by Signature: [Signature] Date: 7/25/11
 Company: C.L.E
 (1) Received by Signature: [Signature] Date: 7/28/11
 Company: _____
 (2) Relinquished by Signature: _____ Date: _____
 Company: _____
 (2) Received by Signature: _____ Date: 7/28/11
 Company: _____
 Coating Code: _____ Q / L / D
 Misc. Charges: _____
 SHADED AREAS ARE FOR LAB USE ONLY

Login Sample Receipt Checklist

Client: CL Environmental

Job Number: 400-58219-2

Login Number: 58219

List Source: TestAmerica Pensacola

List Number: 1

Creator: Hor, Koma

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	True	18.6°C, 17.4°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



REVIEW OF ANALYTICAL REPORT

JOB NUMBER: 400-58168-1

AUSJAM GOLD MINE

International Analytical Group, Inc. (IAG) has conducted an independent, third party review of the above referenced analytical report. The samples were analyzed by Test America Pensacola , a NELAC certified laboratory in Pensacola, Florida.

If you have any questions regarding this analytical report, please contact Maria Jackson at maria@iagenvironmental.com or (954) 894-4023.



ANALYTICAL REPORT

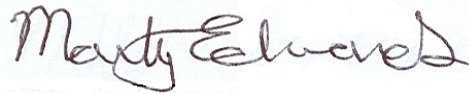
Job Number: 400-58168-1

Job Description: AusJam Gold Mine

For:

CL Environmental
22 Fort George Heights
Stony Hill,
Kingston 8, Jamaica

Attention: Carlton Campbell



Approved for release.
Marty Edwards
Senior Project Manager
7/29/2011 3:46 PM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
07/29/2011

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

TestAmerica Laboratories, Inc.

TestAmerica Pensacola 3355 McLemore Drive, Pensacola, FL 32514

Tel (850) 474-1001 Fax (850) 478-2671 www.testamericainc.com



EXECUTIVE SUMMARY - Detections

Client: CL Environmental

Job Number: 400-58168-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
400-58168-3 Percent Moisture	AJ S 2	14		0.10	%	Moisture

METHOD SUMMARY

Client: CL Environmental

Job Number: 400-58168-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Cyanide Cyanide, Distillation	TAL PEN	SW846 9014	SW846 9010B
Percent Moisture	TAL PEN	EPA Moisture	
Matrix Water			
Cyanide Distillation, Cyanide	TAL PEN	EPA 335.2	Distill/CN

Lab References:

TAL PEN = TestAmerica Pensacola

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: CL Environmental

Job Number: 400-58168-1

Method	Analyst	Analyst ID
EPA 335.2	Brooks, Barbara	BB
SW846 9014	Brooks, Barbara	BB
EPA Moisture	Hor, Koma	KH

SAMPLE SUMMARY

Client: CL Environmental

Job Number: 400-58168-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-58168-1	AJ 11	Water	07/26/2011 0000	07/27/2011 0955
400-58168-2	AJ 12	Water	07/26/2011 0000	07/27/2011 0955
400-58168-3	AJ S 2	Solid	07/26/2011 0000	07/27/2011 0955

SAMPLE RESULTS

Client: CL Environmental

Job Number: 400-58168-1

General Chemistry

Client Sample ID: AJ 11

Lab Sample ID: 400-58168-1

Client Matrix: Water

Date Sampled: 07/26/2011 0000

Date Received: 07/27/2011 0955

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	ND		mg/L	0.0050	1.0	335.2
	Analysis Batch: 400-136302	Analysis Date: 07/29/2011 1403				
	Prep Batch: 400-136185	Prep Date: 07/28/2011 1345				

Client: CL Environmental

Job Number: 400-58168-1

General Chemistry

Client Sample ID: AJ 12

Lab Sample ID: 400-58168-2

Client Matrix: Water

Date Sampled: 07/26/2011 0000

Date Received: 07/27/2011 0955

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	ND		mg/L	0.0050	1.0	335.2
	Analysis Batch: 400-136302	Analysis Date: 07/29/2011 1408				
	Prep Batch: 400-136185	Prep Date: 07/28/2011 1345				

Client: CL Environmental

Job Number: 400-58168-1

General Chemistry

Client Sample ID: AJ S 2

Lab Sample ID: 400-58168-3

Date Sampled: 07/26/2011 0000

Client Matrix: Solid

% Moisture: 14.4

Date Received: 07/27/2011 0955

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	ND		mg/Kg	0.29	1.0	9014
	Analysis Batch: 400-136304	Analysis Date: 07/29/2011 1403				DryWt Corrected: Y
	Prep Batch: 400-136230	Prep Date: 07/29/2011 0855				
Percent Moisture	14		%	0.10	1.0	Moisture
	Analysis Batch: 400-136225	Analysis Date: 07/28/2011 1700				DryWt Corrected: N

QUALITY CONTROL RESULTS

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Prep Batch: 400-136185					
LCS 400-136185/2-A	Lab Control Sample	T	Water	Distill/CN	
MB 400-136185/1-A	Method Blank	T	Water	Distill/CN	
400-58168-1	AJ 11	T	Water	Distill/CN	
400-58168-1MS	Matrix Spike	T	Water	Distill/CN	
400-58168-1MSD	Matrix Spike Duplicate	T	Water	Distill/CN	
400-58168-2	AJ 12	T	Water	Distill/CN	
Analysis Batch:400-136225					
400-58168-3	AJ S 2	T	Solid	Moisture	
Prep Batch: 400-136230					
LCS 400-136230/2-A	Lab Control Sample	T	Solid	9010B	
MB 400-136230/1-A	Method Blank	T	Solid	9010B	
400-58168-3	AJ S 2	T	Solid	9010B	
400-58168-3MS	Matrix Spike	T	Solid	9010B	
400-58168-3MSD	Matrix Spike Duplicate	T	Solid	9010B	
Analysis Batch:400-136302					
LCS 400-136185/2-A	Lab Control Sample	T	Water	335.2	400-136185
MB 400-136185/1-A	Method Blank	T	Water	335.2	400-136185
400-58168-1	AJ 11	T	Water	335.2	400-136185
400-58168-1MS	Matrix Spike	T	Water	335.2	400-136185
400-58168-1MSD	Matrix Spike Duplicate	T	Water	335.2	400-136185
400-58168-2	AJ 12	T	Water	335.2	400-136185
Analysis Batch:400-136304					
LCS 400-136230/2-A	Lab Control Sample	T	Solid	9014	400-136230
MB 400-136230/1-A	Method Blank	T	Solid	9014	400-136230
400-58168-3	AJ S 2	T	Solid	9014	400-136230
400-58168-3MS	Matrix Spike	T	Solid	9014	400-136230
400-58168-3MSD	Matrix Spike Duplicate	T	Solid	9014	400-136230

Report Basis

T = Total

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-1

Method Blank - Batch: 400-136185

Method: 335.2

Preparation: Distill/CN

Lab Sample ID:	MB 400-136185/1-A	Analysis Batch:	400-136302	Instrument ID:	KONELAB
Client Matrix:	Water	Prep Batch:	400-136185	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/29/2011 1502	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/28/2011 1345				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Cyanide, Total	ND		0.0050

Lab Control Sample - Batch: 400-136185

Method: 335.2

Preparation: Distill/CN

Lab Sample ID:	LCS 400-136185/2-A	Analysis Batch:	400-136302	Instrument ID:	KONELAB
Client Matrix:	Water	Prep Batch:	400-136185	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/29/2011 1403	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/28/2011 1345				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.346	0.344	99	85 - 115	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 400-136185

Method: 335.2

Preparation: Distill/CN

MS Lab Sample ID:	400-58168-1	Analysis Batch:	400-136302	Instrument ID:	KONELAB
Client Matrix:	Water	Prep Batch:	400-136185	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/29/2011 1403			Final Weight/Volume:	50 mL
Prep Date:	07/28/2011 1345				
Leach Date:	N/A				

MSD Lab Sample ID:	400-58168-1	Analysis Batch:	400-136302	Instrument ID:	KONELAB
Client Matrix:	Water	Prep Batch:	400-136185	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	07/29/2011 1408			Final Weight/Volume:	50 mL
Prep Date:	07/28/2011 1345				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Cyanide, Total	92	95	68 - 133	3	36		

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136185**

**Method: 335.2
Preparation: Distill/CN**

MS Lab Sample ID: 400-58168-1 Units: mg/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/29/2011 1403
 Prep Date: 07/28/2011 1345
 Leach Date: N/A

MSD Lab Sample ID: 400-58168-1
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/29/2011 1408
 Prep Date: 07/28/2011 1345
 Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cyanide, Total	ND	0.200	0.200	0.184	0.189

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-1

Method Blank - Batch: 400-136230

**Method: 9014
Preparation: 9010B**

Lab Sample ID:	MB 400-136230/1-A	Analysis Batch:	400-136304	Instrument ID:	KONELAB
Client Matrix:	Solid	Prep Batch:	400-136230	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	07/29/2011 1403	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/29/2011 0855				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Cyanide, Total	ND		0.25

Lab Control Sample - Batch: 400-136230

**Method: 9014
Preparation: 9010B**

Lab Sample ID:	LCS 400-136230/2-A	Analysis Batch:	400-136304	Instrument ID:	KONELAB
Client Matrix:	Solid	Prep Batch:	400-136230	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	07/29/2011 1403	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/29/2011 0855				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	17.3	17.8	103	85 - 115	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136230**

**Method: 9014
Preparation: 9010B**

MS Lab Sample ID:	400-58168-3	Analysis Batch:	400-136304	Instrument ID:	KONELAB
Client Matrix:	Solid	Prep Batch:	400-136230	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	07/29/2011 1403			Final Weight/Volume:	50 mL
Prep Date:	07/29/2011 0855				
Leach Date:	N/A				

MSD Lab Sample ID:	400-58168-3	Analysis Batch:	400-136304	Instrument ID:	KONELAB
Client Matrix:	Solid	Prep Batch:	400-136230	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	07/29/2011 1403			Final Weight/Volume:	50 mL
Prep Date:	07/29/2011 0855				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Cyanide, Total	101	96	57 - 136	5	20		

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136230**

**Method: 9014
Preparation: 9010B**

MS Lab Sample ID: 400-58168-3 Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 07/29/2011 1403
Prep Date: 07/29/2011 0855
Leach Date: N/A

MSD Lab Sample ID: 400-58168-3
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 07/29/2011 1403
Prep Date: 07/29/2011 0855
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cyanide, Total	ND	11.7	11.7	11.8	11.2

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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INTERNATIONAL ANALYTICAL GROUP
CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))

FDEP Facility No. 400-58168
Page 1 of 1
Sampling CompQAP No. _____
Approval Date: _____

5555 HOLLYWOOD BOULEVARD, SUITE 301, HOLLYWOOD, FLORIDA 33021
PHONE: 954-894-4023 • FAX: 954-894-4501 • CELLULAR: 954-494-3272

Original - Return w/ Report

Yellow - Lab Copy

Pink - Sampler Copy

Report To: C.L. Environmental Co. Ltd.
 Bill To: **INTERNATIONAL ANALYTICAL GROUP (IAG)**
 Project Number/Name: Aussan
 Project Contact: Carlton Campbell
 Alternate Contact: Matthew Lee
 Sampled By (print): Matthew Lee
 Billing Address: **P.O. BOX 814407, HOLLYWOOD, FLORIDA 33081-4407**
 Site Location: Aussan Gold Mine
 Phone: 876-371-2267
 Phone: 876-439-9584
 FAX: _____
 FAX: _____
 Sampler's Signature: _____

ITEM	PAGE	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	pH	TEMP °C	COND	MATRIX	SAMPLE LOCATION/ JOB DESCRIPTION	# CONTAINERS	ANALYSIS REQUIRED										Sample Condition as Received: Temp <u>20</u> C	Sealed: Yes: No	Lot Number of Sampling Containers Used				
											PLACE NAME OR METHOD NUMBER OF TESTS NEEDED IN LARGE BOXES BELOW. (✓) CHECK OFF WHICH SAMPLE ITEMS NEED EACH TEST PERFORMED																
10	17	AJ11	26/7/11					SW		4	TPH, Cyanide, Arsenic, Thiocyanate, Cadmium	✓	Lead	Mercury													
21	18	AJ12						SW		4		✓	Arsenic	TPH.													
3		AJ52						S		1		✓	Cyanide														
4																											
5																											
6																											
7																											
8																											
9																											
10																											

Special Comments: anal results to clenire @ aussan.com Total # of Containers: 9
 QA/QC Report Needed?: Yes No (See price guide for applicable fees)
 Report Format: Standard Other (specify) _____
 Date: 26/7/11
 Time: _____
 Date: 7/27/11
 Time: 4:55
 Coating Code: _____ Q / L / D
 Misc. Charges
 SHADED AREAS ARE FOR LAB USE ONLY

Login Sample Receipt Checklist

Client: CL Environmental

Job Number: 400-58168-1

Login Number: 58168

List Source: TestAmerica Pensacola

List Number: 1

Creator: Hor, Koma

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



REVIEW OF ANALYTICAL REPORT

JOB NUMBER: 400-58168-2

AUSJAM GOLD MINE

International Analytical Group, Inc. (IAG) has conducted an independent, third party review of the above referenced analytical report. The samples were analyzed by Test America Pensacola , a NELAC certified laboratory in Pensacola, Florida.

If you have any questions regarding this analytical report, please contact Maria Jackson at maria@iagenvironmental.com or (954) 894-4023.



ANALYTICAL REPORT

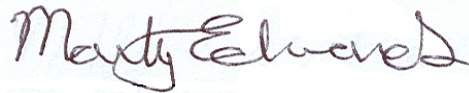
Job Number: 400-58168-2

Job Description: AusJam Gold Mine

For:

CL Environmental
22 Fort George Heights
Stony Hill,
Kingston 8, Jamaica

Attention: Carlton Campbell



Approved for release.
Marty Edwards
Senior Project Manager
8/11/2011 9:20 AM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
08/11/2011
Revision: 1

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

TestAmerica Laboratories, Inc.

TestAmerica Pensacola 3355 McLemore Drive, Pensacola, FL 32514

Tel (850) 474-1001 Fax (850) 478-2671 www.testamericainc.com



Job Narrative
400-58168-2

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC Semi VOA

Method FL-PRO: Due to the high concentration of TRPH (C8-C40), the matrix spike / matrix spike duplicate (MS/MSD) for batch 400-136242 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Metals

Method 7470A: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for batch 400-136375 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 7471A: The matrix spike (MS) recovery for batch 400-136240 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

Organic Prep

Method 3520C: Insufficient sample volume was provided to meet method-mandated requirements for matrix spike/matrix spike duplicate (MS/MSD) analyses for batch 400-136046 Method FL_PRO.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: CL Environmental

Job Number: 400-58168-2

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
400-58168-1 Thiocyanate	AJ 11	0.20		0.10	mg/L	SM 4500 CN M
400-58168-2 Thiocyanate	AJ 12	0.21		0.10	mg/L	SM 4500 CN M
400-58168-3 Arsenic	AJ S 2	4.7		0.58	mg/Kg	6010B
Lead		8.2		0.58	mg/Kg	6010B
Mercury		0.17		0.015	mg/Kg	7471A

METHOD SUMMARY

Client: CL Environmental

Job Number: 400-58168-2

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Florida - Petroleum Range Organics (GC) Ultrasonic Extraction	TAL PEN	FL-DEP FL-PRO	SW846 3550B
Metals (ICP) Preparation, Metals	TAL PEN	SW846 6010B	SW846 3050B
Mercury Preparation, Mercury	TAL PEN	SW846 7471A	SW846 7471A
Matrix Water			
Florida - Petroleum Range Organics (GC) Liquid-Liquid Extraction (Continuous)	TAL PEN	FL-DEP FL-PRO	SW846 3520C
Metals (ICP) Preparation, Total Metals	TAL PEN	SW846 6010B	SW846 3010A
Mercury Preparation, Mercury	TAL PEN	SW846 7470A	SW846 7470A
Thiocyanate	TAL MOB	SM SM 4500 CN M	

Lab References:

TAL MOB = TestAmerica Mobile

TAL PEN = TestAmerica Pensacola

Method References:

FL-DEP = State Of Florida Department Of Environmental Protection, Florida Administrative Code.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: CL Environmental

Job Number: 400-58168-2

Method	Analyst	Analyst ID
FL-DEP FL-PRO	Ayers, Kim	KA
FL-DEP FL-PRO	Waite, Daniel	DW
SW846 6010B	St. Pere, Gary	GS
SW846 7470A	Cortez, Maria	MC
SW846 7471A	Cortez, Maria	MC
SM SM 4500 CN M	Norvang, Vanyda A	VAN

SAMPLE SUMMARY

Client: CL Environmental

Job Number: 400-58168-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-58168-1	AJ 11	Water	07/26/2011 0000	07/27/2011 0955
400-58168-2	AJ 12	Water	07/26/2011 0000	07/27/2011 0955
400-58168-3	AJ S 2	Solid	07/26/2011 0000	07/27/2011 0955

SAMPLE RESULTS

Analytical Data

Client: CL Environmental

Job Number: 400-58168-2

Client Sample ID: AJ 11

Lab Sample ID: 400-58168-1

Date Sampled: 07/26/2011 0000

Client Matrix: Water

Date Received: 07/27/2011 0955

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136198	Instrument ID:	WALLE
Prep Method:	3520C	Prep Batch:	400-136046	Lab File ID:	400-58168-C-1-A_01
Dilution:	1.0			Initial Weight/Volume:	1080 mL
Analysis Date:	07/28/2011 1747			Final Weight/Volume:	1.8 mL
Prep Date:	07/27/2011 1452			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	RL
C8-C40	ND		0.13

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	60		20 - 176
o-Terphenyl	74		49 - 143

Analytical Data

Client: CL Environmental

Job Number: 400-58168-2

Client Sample ID: AJ 12

Lab Sample ID: 400-58168-2

Date Sampled: 07/26/2011 0000

Client Matrix: Water

Date Received: 07/27/2011 0955

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136198	Instrument ID:	WALLE
Prep Method:	3520C	Prep Batch:	400-136046	Lab File ID:	400-58168-C-2-A_01
Dilution:	1.0			Initial Weight/Volume:	1080 mL
Analysis Date:	07/28/2011 1757			Final Weight/Volume:	1.6 mL
Prep Date:	07/27/2011 1452			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	RL
C8-C40	ND		0.11

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	71		20 - 176
o-Terphenyl	74		49 - 143

Analytical Data

Client: CL Environmental

Job Number: 400-58168-2

Client Sample ID: AJ S 2

Lab Sample ID: 400-58168-3

Date Sampled: 07/26/2011 0000

Client Matrix: Solid

% Moisture: 14.4

Date Received: 07/27/2011 0955

FL-PRO Florida - Petroleum Range Organics (GC)

Analysis Method:	FL-PRO	Analysis Batch:	400-136311	Instrument ID:	WALLE
Prep Method:	3550B	Prep Batch:	400-136242	Lab File ID:	400-58168-a-3-e_065
Dilution:	1.0			Initial Weight/Volume:	30.49 g
Analysis Date:	07/30/2011 0322			Final Weight/Volume:	1.4 mL
Prep Date:	07/29/2011 0912			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
C8-C40		ND		8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
n-C39	61		37 - 138
o-Terphenyl	63		50 - 121

Analytical Data

Client: CL Environmental

Job Number: 400-58168-2

Client Sample ID: AJ 11

Lab Sample ID: 400-58168-1

Client Matrix: Water

Date Sampled: 07/26/2011 0000

Date Received: 07/27/2011 0955

6010B Metals (ICP)

Analysis Method: 6010B Analysis Batch: 400-136413 Instrument ID: 6500 ICP Duo
Prep Method: 3010A Prep Batch: 400-136154 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: 50 mL
Analysis Date: 08/01/2011 1527 Final Weight/Volume: 50 mL
Prep Date: 07/28/2011 0944

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND		0.0050
Cadmium	ND		0.0050
Copper	ND		0.010
Lead	ND		0.0050
Zinc	ND		0.020

7470A Mercury

Analysis Method: 7470A Analysis Batch: 400-136397 Instrument ID: HYDRA AA
Prep Method: 7470A Prep Batch: 400-136375 Lab File ID: HW136370.PRN
Dilution: 1.0 Initial Weight/Volume: 40 mL
Analysis Date: 08/01/2011 1454 Final Weight/Volume: 40 mL
Prep Date: 08/01/2011 0845

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: CL Environmental

Job Number: 400-58168-2

Client Sample ID: AJ 12

Lab Sample ID: 400-58168-2

Date Sampled: 07/26/2011 0000

Client Matrix: Water

Date Received: 07/27/2011 0955

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	400-136413	Instrument ID:	6500 ICP Duo
Prep Method:	3010A	Prep Batch:	400-136154	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2011 1531			Final Weight/Volume:	50 mL
Prep Date:	07/28/2011 0944				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND		0.0050
Cadmium	ND		0.0050
Copper	ND		0.010
Lead	ND		0.0050
Zinc	ND		0.020

7470A Mercury

Analysis Method:	7470A	Analysis Batch:	400-136397	Instrument ID:	HYDRA AA
Prep Method:	7470A	Prep Batch:	400-136375	Lab File ID:	HW136370.PRN
Dilution:	1.0			Initial Weight/Volume:	40 mL
Analysis Date:	08/01/2011 1456			Final Weight/Volume:	40 mL
Prep Date:	08/01/2011 0845				

Analyte	Result (mg/L)	Qualifier	RL
Mercury	ND		0.00020

Analytical Data

Client: CL Environmental

Job Number: 400-58168-2

Client Sample ID: AJ S 2

Lab Sample ID: 400-58168-3

Date Sampled: 07/26/2011 0000

Client Matrix: Solid

% Moisture: 14.4

Date Received: 07/27/2011 0955

6010B Metals (ICP)

Analysis Method: 6010B Analysis Batch: 400-136360 Instrument ID: 6500 ICP Duo
Prep Method: 3050B Prep Batch: 400-136190 Lab File ID: N/A
Dilution: 1.0 Initial Weight/Volume: .502 g
Analysis Date: 07/29/2011 1926 Final Weight/Volume: 50 mL
Prep Date: 07/28/2011 1613

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		4.7		0.58
Cadmium		ND		0.58
Lead		8.2		0.58

7471A Mercury

Analysis Method: 7471A Analysis Batch: 400-136312 Instrument ID: HYDRA AA
Prep Method: 7471A Prep Batch: 400-136240 Lab File ID: HS136240B.PRN
Dilution: 1.0 Initial Weight/Volume: .6407 g
Analysis Date: 07/29/2011 1603 Final Weight/Volume: 40 mL
Prep Date: 07/29/2011 0900

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.17		0.015

Analytical Data

Client: CL Environmental

Job Number: 400-58168-2

General Chemistry

Client Sample ID: AJ 11

Lab Sample ID: 400-58168-1

Client Matrix: Water

Date Sampled: 07/26/2011 0000

Date Received: 07/27/2011 0955

Analyte	Result	Qual	Units	RL	Dil	Method
Thiocyanate	0.20		mg/L	0.10	1.0	SM 4500 CN M

Analysis Batch: 700-104116

Analysis Date: 08/04/2011 1402

Client: CL Environmental

Job Number: 400-58168-2

General Chemistry

Client Sample ID: AJ 12

Lab Sample ID: 400-58168-2

Date Sampled: 07/26/2011 0000

Client Matrix: Water

Date Received: 07/27/2011 0955

Analyte	Result	Qual	Units	RL	Dil	Method
Thiocyanate	0.21		mg/L	0.10	1.0	SM 4500 CN M

Analysis Batch: 700-104116

Analysis Date: 08/04/2011 1402

QUALITY CONTROL RESULTS

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC Semi VOA					
Prep Batch: 400-136046					
LCS 400-136046/4-A	Lab Control Sample	T	Water	3520C	
MB 400-136046/5-A	Method Blank	T	Water	3520C	
400-58168-1	AJ 11	T	Water	3520C	
400-58168-2	AJ 12	T	Water	3520C	
Analysis Batch:400-136198					
LCS 400-136046/4-A	Lab Control Sample	T	Water	FL-PRO	400-136046
MB 400-136046/5-A	Method Blank	T	Water	FL-PRO	400-136046
400-58168-1	AJ 11	T	Water	FL-PRO	400-136046
400-58168-2	AJ 12	T	Water	FL-PRO	400-136046
Prep Batch: 400-136242					
LCS 400-136242/9-A	Lab Control Sample	T	Solid	3550B	
MB 400-136242/10-A	Method Blank	T	Solid	3550B	
400-58168-3	AJ S 2	T	Solid	3550B	
400-58211-D-1-B MS	Matrix Spike	T	Solid	3550B	
400-58211-D-1-C MSD	Matrix Spike Duplicate	T	Solid	3550B	
Analysis Batch:400-136311					
LCS 400-136242/9-A	Lab Control Sample	T	Solid	FL-PRO	400-136242
MB 400-136242/10-A	Method Blank	T	Solid	FL-PRO	400-136242
400-58168-3	AJ S 2	T	Solid	FL-PRO	400-136242
400-58211-D-1-B MS	Matrix Spike	T	Solid	FL-PRO	400-136242
400-58211-D-1-C MSD	Matrix Spike Duplicate	T	Solid	FL-PRO	400-136242

Report Basis

T = Total

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 400-136154					
LCS 400-136154/21-A	Lab Control Sample	T	Water	3010A	
MB 400-136154/20-A	Method Blank	T	Water	3010A	
400-58168-1	AJ 11	T	Water	3010A	
400-58168-2	AJ 12	T	Water	3010A	
400-58178-H-1-B MS	Matrix Spike	T	Water	3010A	
400-58178-H-1-C MSD	Matrix Spike Duplicate	T	Water	3010A	
Prep Batch: 400-136190					
LCS 400-136190/24-A	Lab Control Sample	T	Solid	3050B	
MB 400-136190/23-A	Method Blank	T	Solid	3050B	
400-58029-B-12-B MS	Matrix Spike	T	Solid	3050B	
400-58029-B-12-C MSD	Matrix Spike Duplicate	T	Solid	3050B	
400-58168-3	AJ S 2	T	Solid	3050B	
Prep Batch: 400-136240					
LCS 400-136240/15-A ^10	Lab Control Sample	T	Solid	7471A	
MB 400-136240/14-A	Method Blank	T	Solid	7471A	
400-58029-B-12-F MS	Matrix Spike	T	Solid	7471A	
400-58029-B-12-G MSD	Matrix Spike Duplicate	T	Solid	7471A	
400-58168-3	AJ S 2	T	Solid	7471A	
Analysis Batch:400-136312					
LCS 400-136240/15-A ^10	Lab Control Sample	T	Solid	7471A	400-136240
MB 400-136240/14-A	Method Blank	T	Solid	7471A	400-136240
400-58029-B-12-F MS	Matrix Spike	T	Solid	7471A	400-136240
400-58029-B-12-G MSD	Matrix Spike Duplicate	T	Solid	7471A	400-136240
400-58168-3	AJ S 2	T	Solid	7471A	400-136240
Analysis Batch:400-136360					
LCS 400-136190/24-A	Lab Control Sample	T	Solid	6010B	400-136190
MB 400-136190/23-A	Method Blank	T	Solid	6010B	400-136190
400-58029-B-12-B MS	Matrix Spike	T	Solid	6010B	400-136190
400-58029-B-12-C MSD	Matrix Spike Duplicate	T	Solid	6010B	400-136190
400-58168-3	AJ S 2	T	Solid	6010B	400-136190
Prep Batch: 400-136375					
LCS 400-136375/15-A	Lab Control Sample	T	Water	7470A	
MB 400-136375/14-A	Method Blank	T	Water	7470A	
400-58168-1	AJ 11	T	Water	7470A	
400-58168-2	AJ 12	T	Water	7470A	
400-58181-A-4-B MS	Matrix Spike	T	Water	7470A	
400-58181-A-4-C MSD	Matrix Spike Duplicate	T	Water	7470A	

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Analysis Batch:400-136397					
LCS 400-136375/15-A	Lab Control Sample	T	Water	7470A	400-136375
MB 400-136375/14-A	Method Blank	T	Water	7470A	400-136375
400-58168-1	AJ 11	T	Water	7470A	400-136375
400-58168-2	AJ 12	T	Water	7470A	400-136375
400-58181-A-4-B MS	Matrix Spike	T	Water	7470A	400-136375
400-58181-A-4-C MSD	Matrix Spike Duplicate	T	Water	7470A	400-136375
Analysis Batch:400-136413					
LCS 400-136154/21-A	Lab Control Sample	T	Water	6010B	400-136154
MB 400-136154/20-A	Method Blank	T	Water	6010B	400-136154
400-58168-1	AJ 11	T	Water	6010B	400-136154
400-58168-2	AJ 12	T	Water	6010B	400-136154
400-58178-H-1-B MS	Matrix Spike	T	Water	6010B	400-136154
400-58178-H-1-C MSD	Matrix Spike Duplicate	T	Water	6010B	400-136154
Report Basis					
T = Total					
General Chemistry					
Analysis Batch:700-104116					
LCS 700-104116/4	Lab Control Sample	T	Water	SM 4500 CN M	
LCSD 700-104116/5	Lab Control Sample Duplicate	T	Water	SM 4500 CN M	
400-58168-1	AJ 11	T	Water	SM 4500 CN M	
400-58168-2	AJ 12	T	Water	SM 4500 CN M	
700-60198-A-2 MS	Matrix Spike	T	Water	SM 4500 CN M	
700-60198-A-2 MSD	Matrix Spike Duplicate	T	Water	SM 4500 CN M	
Report Basis					
T = Total					

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

Method Blank - Batch: 400-136046

**Method: FL-PRO
Preparation: 3520C**

Lab Sample ID: MB 400-136046/5-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/28/2011 1658
 Prep Date: 07/27/2011 0851
 Leach Date: N/A

Analysis Batch: 400-136198
 Prep Batch: 400-136046
 Leach Batch: N/A
 Units: mg/L

Instrument ID: WALLE
 Lab File ID: MB
 Initial Weight/Volume: 1000 mL
 Final Weight/Volume: 2.4 mL
 Injection Volume: 1 uL

Analyte	Result	Qual	RL
C8-C40	ND		0.18

Surrogate	% Rec	Acceptance Limits
n-C39	79	20 - 176
o-Terphenyl	89	49 - 143

Lab Control Sample - Batch: 400-136046

**Method: FL-PRO
Preparation: 3520C**

Lab Sample ID: LCS 400-136046/4-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/28/2011 1708
 Prep Date: 07/27/2011 0851
 Leach Date: N/A

Analysis Batch: 400-136198
 Prep Batch: 400-136046
 Leach Batch: N/A
 Units: mg/L

Instrument ID: WALLE
 Lab File ID: LCS
 Initial Weight/Volume: 1000 mL
 Final Weight/Volume: 2.4 mL
 Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C8-C40	3.40	3.00	88	41 - 133	

Surrogate	% Rec	Acceptance Limits
n-C39	61	20 - 176
o-Terphenyl	77	49 - 143

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

Method Blank - Batch: 400-136242

**Method: FL-PRO
Preparation: 3550B**

Lab Sample ID:	MB 400-136242/10-A	Analysis Batch:	400-136311	Instrument ID:	WALLE
Client Matrix:	Solid	Prep Batch:	400-136242	Lab File ID:	mb
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	07/30/2011 0243	Units:	mg/Kg	Final Weight/Volume:	1.5 mL
Prep Date:	07/29/2011 0912			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	RL
C8-C40	ND		7.5
Surrogate	% Rec	Acceptance Limits	
n-C39	63	37 - 138	
o-Terphenyl	76	50 - 121	

Lab Control Sample - Batch: 400-136242

**Method: FL-PRO
Preparation: 3550B**

Lab Sample ID:	LCS 400-136242/9-A	Analysis Batch:	400-136311	Instrument ID:	WALLE
Client Matrix:	Solid	Prep Batch:	400-136242	Lab File ID:	lcs
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.00 g
Analysis Date:	07/30/2011 0253	Units:	mg/Kg	Final Weight/Volume:	1.7 mL
Prep Date:	07/29/2011 0912			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C8-C40	113	96.7	85	50 - 124	
Surrogate	% Rec		Acceptance Limits		
n-C39	68		37 - 138		
o-Terphenyl	77		50 - 121		

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136242**

**Method: FL-PRO
Preparation: 3550B**

MS Lab Sample ID:	400-58211-D-1-B MS	Analysis Batch:	400-136311	Instrument ID:	WALLE
Client Matrix:	Solid	Prep Batch:	400-136242	Lab File ID:	400-58211-d-1-b
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	30.10 g
Analysis Date:	07/30/2011 0303			Final Weight/Volume:	2.2 mL
Prep Date:	07/29/2011 0912			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	400-58211-D-1-C MSD	Analysis Batch:	400-136311	Instrument ID:	WALLE
Client Matrix:	Solid	Prep Batch:	400-136242	Lab File ID:	400-58211-d-1-c
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	30.09 g
Analysis Date:	07/30/2011 0313			Final Weight/Volume:	2.4 mL
Prep Date:	07/29/2011 0912			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
C8-C40	-959	-14	11 - 154	16	50	4	4
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
n-C39	34	X	157	X	37 - 138		
o-Terphenyl	50		67		50 - 121		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136242**

**Method: FL-PRO
Preparation: 3550B**

MS Lab Sample ID:	400-58211-D-1-B MS	Units:	mg/Kg	MSD Lab Sample ID:	400-58211-D-1-C MSD
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	20			Dilution:	20
Analysis Date:	07/30/2011 0303			Analysis Date:	07/30/2011 0313
Prep Date:	07/29/2011 0912			Prep Date:	07/29/2011 0912
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
C8-C40	7900	124	124	6720 4	7890 4

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

Method Blank - Batch: 400-136154

**Method: 6010B
Preparation: 3010A**

Lab Sample ID:	MB 400-136154/20-A	Analysis Batch:	400-136413	Instrument ID:	6500 ICP Duo
Client Matrix:	Water	Prep Batch:	400-136154	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2011 1511	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/28/2011 0944				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Arsenic	ND		0.0050
Cadmium	ND		0.0050
Copper	ND		0.010
Lead	ND		0.0050
Zinc	ND		0.020

Lab Control Sample - Batch: 400-136154

**Method: 6010B
Preparation: 3010A**

Lab Sample ID:	LCS 400-136154/21-A	Analysis Batch:	400-136413	Instrument ID:	6500 ICP Duo
Client Matrix:	Water	Prep Batch:	400-136154	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2011 1515	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	07/28/2011 0944				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1.00	0.898	90	80 - 120	
Cadmium	0.500	0.453	91	80 - 120	
Copper	1.00	0.940	94	80 - 120	
Lead	1.00	0.935	94	80 - 120	
Zinc	1.00	0.937	94	80 - 120	

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136154**

**Method: 6010B
Preparation: 3010A**

MS Lab Sample ID:	400-58178-H-1-B MS	Analysis Batch:	400-136413	Instrument ID:	6500 ICP Duo
Client Matrix:	Water	Prep Batch:	400-136154	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2011 1541			Final Weight/Volume:	50 mL
Prep Date:	07/28/2011 0944				
Leach Date:	N/A				

MSD Lab Sample ID:	400-58178-H-1-C MSD	Analysis Batch:	400-136413	Instrument ID:	6500 ICP Duo
Client Matrix:	Water	Prep Batch:	400-136154	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/01/2011 1543			Final Weight/Volume:	50 mL
Prep Date:	07/28/2011 0944				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Arsenic	87	88	75 - 125	1	20		
Cadmium	89	89	75 - 125	1	20		
Copper	94	93	75 - 125	1	20		
Lead	102	103	75 - 125	1	20		
Zinc	89	90	75 - 125	1	20		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136154**

**Method: 6010B
Preparation: 3010A**

MS Lab Sample ID:	400-58178-H-1-B MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	08/01/2011 1541		
Prep Date:	07/28/2011 0944		
Leach Date:	N/A		

MSD Lab Sample ID:	400-58178-H-1-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	08/01/2011 1543
Prep Date:	07/28/2011 0944
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	ND	1.00	1.00	0.873	0.880
Cadmium	ND	0.500	0.500	0.444	0.446
Copper	0.045	1.00	1.00	0.983	0.977
Lead	0.021	1.00	1.00	1.04	1.05
Zinc	0.062	1.00	1.00	0.957	0.963

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

Method Blank - Batch: 400-136190

**Method: 6010B
Preparation: 3050B**

Lab Sample ID:	MB 400-136190/23-A	Analysis Batch:	400-136360	Instrument ID:	6500 ICP Duo
Client Matrix:	Solid	Prep Batch:	400-136190	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.500 g
Analysis Date:	07/29/2011 1756	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/28/2011 1613				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Arsenic	ND		0.50
Cadmium	ND		0.50
Lead	ND		0.50

Lab Control Sample - Batch: 400-136190

**Method: 6010B
Preparation: 3050B**

Lab Sample ID:	LCS 400-136190/24-A	Analysis Batch:	400-136360	Instrument ID:	6500 ICP Duo
Client Matrix:	Solid	Prep Batch:	400-136190	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.505 g
Analysis Date:	07/29/2011 1759	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/28/2011 1613				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	136	127	94	83 - 118	
Cadmium	84.2	79.1	94	84 - 116	
Lead	119	128	107	83 - 117	

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136190**

**Method: 6010B
Preparation: 3050B**

MS Lab Sample ID:	400-58029-B-12-B MS	Analysis Batch:	400-136360	Instrument ID:	6500 ICP Duo
Client Matrix:	Solid	Prep Batch:	400-136190	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.550 g
Analysis Date:	07/29/2011 1913			Final Weight/Volume:	50 mL
Prep Date:	07/28/2011 1613				
Leach Date:	N/A				

MSD Lab Sample ID:	400-58029-B-12-C MSD	Analysis Batch:	400-136360	Instrument ID:	6500 ICP Duo
Client Matrix:	Solid	Prep Batch:	400-136190	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	.513 g
Analysis Date:	07/29/2011 1916			Final Weight/Volume:	50 mL
Prep Date:	07/28/2011 1613				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Arsenic	89	89	75 - 125	6	20		
Cadmium	95	95	75 - 125	7	20		
Lead	104	104	75 - 125	6	20		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136190**

**Method: 6010B
Preparation: 3050B**

MS Lab Sample ID:	400-58029-B-12-B MS	Units:	mg/Kg	MSD Lab Sample ID:	400-58029-B-12-C MSD
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	07/29/2011 1913			Analysis Date:	07/29/2011 1916
Prep Date:	07/28/2011 1613			Prep Date:	07/28/2011 1613
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS	MSD
				Result/Qual	Result/Qual
Arsenic	1.6	116	125	105	112
Cadmium	ND	58.2	62.4	55.5	59.3
Lead	9.8	116	125	131	139

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

Method Blank - Batch: 400-136375

Lab Sample ID: MB 400-136375/14-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/01/2011 1538
 Prep Date: 08/01/2011 0845
 Leach Date: N/A

Analysis Batch: 400-136397
 Prep Batch: 400-136375
 Leach Batch: N/A
 Units: mg/L

**Method: 7470A
 Preparation: 7470A**

Instrument ID: HYDRA AA
 Lab File ID: HW136370.PRN
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Mercury	ND		0.00020

Lab Control Sample - Batch: 400-136375

Lab Sample ID: LCS 400-136375/15-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/01/2011 1340
 Prep Date: 08/01/2011 0845
 Leach Date: N/A

Analysis Batch: 400-136397
 Prep Batch: 400-136375
 Leach Batch: N/A
 Units: mg/L

**Method: 7470A
 Preparation: 7470A**

Instrument ID: HYDRA AA
 Lab File ID: HW136370.PRN
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00100	0.00105	105	80 - 120	

**Matrix Spike/
 Matrix Spike Duplicate Recovery Report - Batch: 400-136375**

MS Lab Sample ID: 400-58181-A-4-B MS
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/01/2011 1502
 Prep Date: 08/01/2011 0845
 Leach Date: N/A

Analysis Batch: 400-136397
 Prep Batch: 400-136375
 Leach Batch: N/A

**Method: 7470A
 Preparation: 7470A**

Instrument ID: HYDRA AA
 Lab File ID: HW136370.PRN
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

MSD Lab Sample ID: 400-58181-A-4-C MSD
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/01/2011 1515
 Prep Date: 08/01/2011 0845
 Leach Date: N/A

Analysis Batch: 400-136397
 Prep Batch: 400-136375
 Leach Batch: N/A

Instrument ID: HYDRA AA
 Lab File ID: HW136370.PRN
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	79	75	85 - 115	5	20	F	F

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136375**

**Method: 7470A
Preparation: 7470A**

MS Lab Sample ID: 400-58181-A-4-B MS Units: mg/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/01/2011 1502
 Prep Date: 08/01/2011 0845
 Leach Date: N/A

MSD Lab Sample ID: 400-58181-A-4-C MSD
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/01/2011 1515
 Prep Date: 08/01/2011 0845
 Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	ND	0.00200	0.00200	0.00173 F	0.00165 F

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

Method Blank - Batch: 400-136240

Lab Sample ID: MB 400-136240/14-A
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 07/29/2011 1554
 Prep Date: 07/29/2011 0900
 Leach Date: N/A

Analysis Batch: 400-136312
 Prep Batch: 400-136240
 Leach Batch: N/A
 Units: mg/Kg

**Method: 7471A
 Preparation: 7471A**

Instrument ID: HYDRA AA
 Lab File ID: HS136240B.PRN
 Initial Weight/Volume: .6000 g
 Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Mercury	ND		0.013

Lab Control Sample - Batch: 400-136240

Lab Sample ID: LCS 400-136240/15-A
 Client Matrix: Solid
 Dilution: 10
 Analysis Date: 07/29/2011 1556
 Prep Date: 07/29/2011 0900
 Leach Date: N/A

Analysis Batch: 400-136312
 Prep Batch: 400-136240
 Leach Batch: N/A
 Units: mg/Kg

**Method: 7471A
 Preparation: 7471A**

Instrument ID: HYDRA AA
 Lab File ID: HS136240B.PRN
 Initial Weight/Volume: .2073 g
 Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	7.42	8.28	112	80 - 120	

**Matrix Spike/
 Matrix Spike Duplicate Recovery Report - Batch: 400-136240**

MS Lab Sample ID: 400-58029-B-12-F MS
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 07/29/2011 1634
 Prep Date: 07/29/2011 0900
 Leach Date: N/A

Analysis Batch: 400-136312
 Prep Batch: 400-136240
 Leach Batch: N/A

**Method: 7471A
 Preparation: 7471A**

Instrument ID: HYDRA AA
 Lab File ID: HS136240B.PRN
 Initial Weight/Volume: .5691 g
 Final Weight/Volume: 40 mL

MSD Lab Sample ID: 400-58029-B-12-G MSD
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 07/29/2011 1635
 Prep Date: 07/29/2011 0900
 Leach Date: N/A

Analysis Batch: 400-136312
 Prep Batch: 400-136240
 Leach Batch: N/A

Instrument ID: HYDRA AA
 Lab File ID: HS136240B.PRN
 Initial Weight/Volume: .5692 g
 Final Weight/Volume: 40 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	122	120	80 - 120	1	20	F	

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-136240**

**Method: 7471A
Preparation: 7471A**

MS Lab Sample ID: 400-58029-B-12-F MS Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 07/29/2011 1634
Prep Date: 07/29/2011 0900
Leach Date: N/A

MSD Lab Sample ID: 400-58029-B-12-G MSD
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 07/29/2011 1635
Prep Date: 07/29/2011 0900
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	ND	0.180	0.180	0.219 F	0.216

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

Method Reporting Limit Check - Batch: 700-104116

**Method: SM 4500 CN M
Preparation: N/A**

Lab Sample ID:	MRL 700-104116/3	Analysis Batch:	700-104116	Instrument ID:	KONELAB
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	DATA08.04.11A1SCN.
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	08/04/2011 1402	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Thiocyanate	0.100	ND	77		

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 700-104116**

**Method: SM 4500 CN M
Preparation: N/A**

LCS Lab Sample ID:	LCS 700-104116/4	Analysis Batch:	700-104116	Instrument ID:	KONELAB
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	DATA08.04.11A1SCN.
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	08/04/2011 1402	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 700-104116/5	Analysis Batch:	700-104116	Instrument ID:	KONELAB
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	DATA08.04.11A1SCN.
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	08/04/2011 1402	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Thiocyanate	103	102	80 - 120	1.3	25.0		

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 700-104116**

**Method: SM 4500 CN M
Preparation: N/A**

LCS Lab Sample ID:	LCS 700-104116/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 700-104116/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	08/04/2011 1402			Analysis Date:	08/04/2011 1402
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Thiocyanate	1.00	1.00	1.04	1.02

Quality Control Results

Client: CL Environmental

Job Number: 400-58168-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-104116**

**Method: SM 4500 CN M
Preparation: N/A**

MS Lab Sample ID:	700-60198-A-2 MS	Analysis Batch:	700-104116	Instrument ID:	KONELAB
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	DATA08.04.11A1SCN.
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	08/04/2011 1402			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	700-60198-A-2 MSD	Analysis Batch:	700-104116	Instrument ID:	KONELAB
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	DATA08.04.11A1SCN.
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	08/04/2011 1402			Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Thiocyanate	113	113	75 - 125	0	25		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-104116**

**Method: SM 4500 CN M
Preparation: N/A**

MS Lab Sample ID:	700-60198-A-2 MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	08/04/2011 1402		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	700-60198-A-2 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	08/04/2011 1402
Prep Date:	N/A
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Thiocyanate	0.25	1.00	1.00	1.38	1.38

INTERNATIONAL ANALYTICAL GROUP
CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))

FDEP Facility No. 400-58168
Page 1 of 1
Sampling CompQAP No. _____
Approval Date: _____

5555 HOLLYWOOD BOULEVARD, SUITE 301, HOLLYWOOD, FLORIDA 33021
PHONE: 954-894-4023 • FAX: 954-894-4501 • CELLULAR: 954-494-3272

Original - Return w/ Report Yellow - Lab Copy Pink - Sampler Copy

Report To: C.L. Environmental Co. Ltd. Report To Address: _____
 Bill To: **INTERNATIONAL ANALYTICAL GROUP (IAG)** Billing Address: **P.O. BOX 814407, HOLLYWOOD, FLORIDA 33081-4407**
 Project Number/Name: Aussan Site Location: Aussan Gold Mine
 Project Contact: Carlton Campbell Phone: 876-371-2267 FAX: _____
 Alternate Contact: Matthew Lee Phone: 876-439-9584 FAX: _____
 Sampled By (print): Matthew Lee Sampler's Signature: _____

ITEM	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	pH	TEMP °C	COND	MATRIX	SAMPLE LOCATION/ JOB DESCRIPTION	# CONTAINERS	ANALYSIS REQUIRED		Sample Condition as Received: Temp <u>20</u> °C
										PLATE NAME OR METHOD NUMBER OF TESTS NEEDED IN LARGE BOXES BELOW.	(✓) CHECK OFF WHICH SAMPLE ITEMS NEED EACH TEST PERFORMED	
10	AJ11	26/7/11					SW		4	TPH, Cyanide, Arsenic, Thiocyanate, Cadmium	Lead, Arsenic, Cyanide, Cadmium, Mercury, TPH.	Sealed: Yes: No
20	AJ12	w					SW		4			Lot Number of Sampling Containers Used
3	AJ52	w					S		1			
4												
5												
6												
7												
8												
9												
10												

Special Comments: anal results to clenire @ aussan.com Total # of Containers: 9
 QA/QC Report Needed?: Yes No (See price guide for applicable fees)
 Report Format: Standard Other (specify) _____
 Date: 26/7/11 Date: _____
 Time: _____ Time: _____
 Date: 7/27/11 Date: _____
 Time: 4:55 Time: _____
 Date: _____ Date: _____
 Time: _____ Time: _____
 Date: _____ Date: _____
 Time: _____ Time: _____

SHADED AREAS ARE FOR LAB USE ONLY

DATA REPORTING QUALIFIERS

Client: CL Environmental

Job Number: 400-58168-2

Lab Section	Qualifier	Description
GC Semi VOA		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	X	Surrogate is outside control limits
Metals		
	F	MS or MSD exceeds the control limits

Login Sample Receipt Checklist

Client: CL Environmental

Job Number: 400-58168-2

Login Number: 58168

List Source: TestAmerica Pensacola

List Number: 1

Creator: Hor, Koma

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: CL Environmental

Job Number: 400-58168-2

Login Number: 58168

List Source: TestAmerica Mobile

List Number: 1

List Creation: 07/28/11 12:00 PM

Creator: Paengpongsavanh, Khamsao H

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



REVIEW OF ANALYTICAL REPORT

JOB NUMBER: 400-58519-1

AUSJAM GOLD MINE

International Analytical Group, Inc. (IAG) has conducted an independent, third party review of the above referenced analytical report. The samples were analyzed by Test America Pensacola , a NELAC certified laboratory in Pensacola, Florida.

If you have any questions regarding this analytical report, please contact Maria Jackson at maria@iagenvironmental.com or (954) 894-4023.



ANALYTICAL REPORT

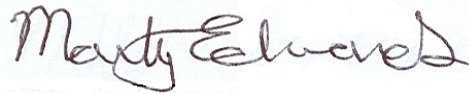
Job Number: 400-58519-1

Job Description: AusJam Gold Mine

For:

CL Environmental
22 Fort George Heights
Stony Hill,
Kingston 8, Jamaica

Attention: Carlton Campbell



Approved for release.
Marty Edwards
Senior Project Manager
8/15/2011 3:30 PM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
08/15/2011

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

TestAmerica Laboratories, Inc.

TestAmerica Pensacola 3355 McLemore Drive, Pensacola, FL 32514

Tel (850) 474-1001 Fax (850) 478-2671 www.testamericainc.com



METHOD SUMMARY

Client: CL Environmental

Job Number: 400-58519-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Cyanide	Distillation, Cyanide	TAL PEN	EPA 335.2	Distill/CN

Lab References:

TAL PEN = TestAmerica Pensacola

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: CL Environmental

Job Number: 400-58519-1

Method	Analyst	Analyst ID
EPA 335.2	Brooks, Barbara	BB

SAMPLE SUMMARY

Client: CL Environmental

Job Number: 400-58519-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-58519-1	AJ 20	Water	08/09/2011 0830	08/11/2011 1029
400-58519-2	AJ 21	Water	08/09/2011 0830	08/11/2011 1029
400-58519-3	AJ 22	Water	08/09/2011 0830	08/11/2011 1029
400-58519-4	AJ 23	Water	08/09/2011 1030	08/11/2011 1029
400-58519-5	AJ 24	Water	08/09/2011 1030	08/11/2011 1029
400-58519-6	AJ 25	Water	08/09/2011 1030	08/11/2011 1029
400-58519-7	AJ 26	Water	08/09/2011 1700	08/11/2011 1029
400-58519-8	AJ 27	Water	08/09/2011 1700	08/11/2011 1029
400-58519-9	AJ 28	Water	08/09/2011 1700	08/11/2011 1029

SAMPLE RESULTS

Client: CL Environmental

Job Number: 400-58519-1

General Chemistry

Client Sample ID: AJ 20

Lab Sample ID: 400-58519-1

Client Matrix: Water

Date Sampled: 08/09/2011 0830

Date Received: 08/11/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	29		mg/L	1.0	200	335.2
	Analysis Batch: 400-137111	Analysis Date: 08/12/2011 1720				
	Prep Batch: 400-137026	Prep Date: 08/11/2011 1415				

Client: CL Environmental

Job Number: 400-58519-1

General Chemistry

Client Sample ID: AJ 21

Lab Sample ID: 400-58519-2

Date Sampled: 08/09/2011 0830

Client Matrix: Water

Date Received: 08/11/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	31		mg/L	0.50	100	335.2
	Analysis Batch: 400-137111	Analysis Date: 08/12/2011 0916				
	Prep Batch: 400-137026	Prep Date: 08/11/2011 1415				

Client: CL Environmental

Job Number: 400-58519-1

General Chemistry

Client Sample ID: AJ 22

Lab Sample ID: 400-58519-3

Date Sampled: 08/09/2011 0830

Client Matrix: Water

Date Received: 08/11/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	44		mg/L	1.0	200	335.2
	Analysis Batch: 400-137111	Analysis Date: 08/15/2011 1255				
	Prep Batch: 400-137026	Prep Date: 08/11/2011 1415				

Client: CL Environmental

Job Number: 400-58519-1

General Chemistry

Client Sample ID: AJ 23

Lab Sample ID: 400-58519-4

Client Matrix: Water

Date Sampled: 08/09/2011 1030

Date Received: 08/11/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	44		mg/L	0.50	100	335.2
	Analysis Batch: 400-137111	Analysis Date: 08/12/2011 0924				
	Prep Batch: 400-137026	Prep Date: 08/11/2011 1415				

Client: CL Environmental

Job Number: 400-58519-1

General Chemistry

Client Sample ID: AJ 24

Lab Sample ID: 400-58519-5

Date Sampled: 08/09/2011 1030

Client Matrix: Water

Date Received: 08/11/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	24		mg/L	0.25	50	335.2
	Analysis Batch: 400-137111	Analysis Date: 08/12/2011 0932				
	Prep Batch: 400-137026	Prep Date: 08/11/2011 1415				

Client: CL Environmental

Job Number: 400-58519-1

General Chemistry

Client Sample ID: AJ 25

Lab Sample ID: 400-58519-6

Date Sampled: 08/09/2011 1030

Client Matrix: Water

Date Received: 08/11/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	17		mg/L	0.25	50	335.2
	Analysis Batch: 400-137111	Analysis Date: 08/12/2011 1040				
	Prep Batch: 400-137026	Prep Date: 08/11/2011 1415				

Client: CL Environmental

Job Number: 400-58519-1

General Chemistry

Client Sample ID: AJ 26

Lab Sample ID: 400-58519-7

Date Sampled: 08/09/2011 1700

Client Matrix: Water

Date Received: 08/11/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	20		mg/L	0.25	50	335.2
	Analysis Batch: 400-137111	Analysis Date: 08/12/2011 0940				
	Prep Batch: 400-137026	Prep Date: 08/11/2011 1415				

Client: CL Environmental

Job Number: 400-58519-1

General Chemistry

Client Sample ID: AJ 27

Lab Sample ID: 400-58519-8

Date Sampled: 08/09/2011 1700

Client Matrix: Water

Date Received: 08/11/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	24		mg/L	0.25	50	335.2
	Analysis Batch: 400-137111	Analysis Date: 08/12/2011 0947				
	Prep Batch: 400-137026	Prep Date: 08/11/2011 1415				

Client: CL Environmental

Job Number: 400-58519-1

General Chemistry

Client Sample ID: AJ 28

Lab Sample ID: 400-58519-9

Client Matrix: Water

Date Sampled: 08/09/2011 1700

Date Received: 08/11/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	7.2		mg/L	0.10	20	335.2
	Analysis Batch: 400-137111	Analysis Date: 08/12/2011 0947				
	Prep Batch: 400-137026	Prep Date: 08/11/2011 1415				

QUALITY CONTROL RESULTS

Quality Control Results

Client: CL Environmental

Job Number: 400-58519-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Prep Batch: 400-137026					
LCS 400-137026/2-A	Lab Control Sample	T	Water	Distill/CN	
MB 400-137026/1-A	Method Blank	T	Water	Distill/CN	
400-58519-1	AJ 20	T	Water	Distill/CN	
400-58519-1MS	Matrix Spike	T	Water	Distill/CN	
400-58519-1MSD	Matrix Spike Duplicate	T	Water	Distill/CN	
400-58519-2	AJ 21	T	Water	Distill/CN	
400-58519-3	AJ 22	T	Water	Distill/CN	
400-58519-4	AJ 23	T	Water	Distill/CN	
400-58519-5	AJ 24	T	Water	Distill/CN	
400-58519-6	AJ 25	T	Water	Distill/CN	
400-58519-7	AJ 26	T	Water	Distill/CN	
400-58519-8	AJ 27	T	Water	Distill/CN	
400-58519-9	AJ 28	T	Water	Distill/CN	
Analysis Batch:400-137111					
LCS 400-137026/2-A	Lab Control Sample	T	Water	335.2	400-137026
MB 400-137026/1-A	Method Blank	T	Water	335.2	400-137026
400-58519-1	AJ 20	T	Water	335.2	400-137026
400-58519-1MS	Matrix Spike	T	Water	335.2	400-137026
400-58519-1MSD	Matrix Spike Duplicate	T	Water	335.2	400-137026
400-58519-2	AJ 21	T	Water	335.2	400-137026
400-58519-3	AJ 22	T	Water	335.2	400-137026
400-58519-4	AJ 23	T	Water	335.2	400-137026
400-58519-5	AJ 24	T	Water	335.2	400-137026
400-58519-6	AJ 25	T	Water	335.2	400-137026
400-58519-7	AJ 26	T	Water	335.2	400-137026
400-58519-8	AJ 27	T	Water	335.2	400-137026
400-58519-9	AJ 28	T	Water	335.2	400-137026

Report Basis

T = Total

Quality Control Results

Client: CL Environmental

Job Number: 400-58519-1

Method Blank - Batch: 400-137026

Lab Sample ID: MB 400-137026/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/13/2011 1046
 Prep Date: 08/11/2011 1415
 Leach Date: N/A

Analysis Batch: 400-137111
 Prep Batch: 400-137026
 Leach Batch: N/A
 Units: mg/L

**Method: 335.2
 Preparation: Distill/CN**

Instrument ID: KONELAB
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Cyanide, Total	ND		0.0050

Lab Control Sample - Batch: 400-137026

Lab Sample ID: LCS 400-137026/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 08/13/2011 1046
 Prep Date: 08/11/2011 1415
 Leach Date: N/A

Analysis Batch: 400-137111
 Prep Batch: 400-137026
 Leach Batch: N/A
 Units: mg/L

**Method: 335.2
 Preparation: Distill/CN**

Instrument ID: KONELAB
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.346	0.375	108	85 - 115	

**Matrix Spike/
 Matrix Spike Duplicate Recovery Report - Batch: 400-137026**

**Method: 335.2
 Preparation: Distill/CN**

MS Lab Sample ID: 400-58519-1
 Client Matrix: Water
 Dilution: 200
 Analysis Date: 08/12/2011 1720
 Prep Date: 08/11/2011 1415
 Leach Date: N/A

Analysis Batch: 400-137111
 Prep Batch: 400-137026
 Leach Batch: N/A

Instrument ID: KONELAB
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 400-58519-1
 Client Matrix: Water
 Dilution: 200
 Analysis Date: 08/12/2011 1720
 Prep Date: 08/11/2011 1415
 Leach Date: N/A

Analysis Batch: 400-137111
 Prep Batch: 400-137026
 Leach Batch: N/A

Instrument ID: KONELAB
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Cyanide, Total	18520	19550	68 - 133	3	36	4	4

Quality Control Results

Client: CL Environmental

Job Number: 400-58519-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 400-137026**

**Method: 335.2
Preparation: Distill/CN**

MS Lab Sample ID: 400-58519-1 Units: mg/L
 Client Matrix: Water
 Dilution: 200
 Analysis Date: 08/12/2011 1720
 Prep Date: 08/11/2011 1415
 Leach Date: N/A

MSD Lab Sample ID: 400-58519-1
 Client Matrix: Water
 Dilution: 200
 Analysis Date: 08/12/2011 1720
 Prep Date: 08/11/2011 1415
 Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cyanide, Total	29	0.200	0.200	66.0 4	68.0 4

DATA REPORTING QUALIFIERS

Client: CL Environmental

Job Number: 400-58519-1

Lab Section	Qualifier	Description
General Chemistry	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

FDEP Facility No. _____
 Page _____ of _____
 Sampling CompQAP No. _____
 Approval Date: _____

INTERNATIONAL ANALYTICAL GROUP
 CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))
 5555 HOLLYWOOD BOULEVARD, SUITE 301, HOLLYWOOD, FLORIDA 33021
 PHONE: 954-894-4023 • FAX: 954-894-4501 • CELLULAR: 954-494-3272

Submission Code: _____
 Orders: _____
 Entered to iims: _____

Report To: **C-L-Environmental**
 Bill To: **INTERNATIONAL ANALYTICAL GROUP (IAG)**
 Project Number/Name: **Aus/Jan Goldmine**
 Project Contact: **Carson Campbell**
 Alternate Contact: **Matthew Lee**
 Sampled By (print): **Anthony Greenaway**

Report To Address: **22 Fort George Heights Ln. 9**
 Billing Address: **P.O. BOX 814407, HOLLYWOOD, FLORIDA 33081-4407**
 Site Location: **CLAREN DIN**
 FAX: _____
 FAX: _____
 Sampler's Signature: *[Signature]*

Yellow - Lab Copy
 Original - Return w/ Report
 Pink - Sampler Copy

ITEM #	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	PH	TEMP °C	COND	MATRIX	SAMPLE LOCATION/ JOB DESCRIPTION <small>(optional if needed when samples are from different site locations)</small>	# CONTAINERS	ANALYSIS REQUIRED <small>PLACE NAME OR METHOD NUMBER OF TESTS NEEDED IN LARGE BOXES BELOW. (✓) CHECK OFF WHICH SAMPLE ITEMS NEED EACH TEST PERFORMED</small>	Sample Condition as Received: Temp <u>9.0</u> °C Sealed Yes No	Lot Number of Sampling Containers Used
1	AS 20	9 Aug	8:30a	9.8	28	X			1			
2	21	"	"	"	"	X			1			
3	22	"	"	"	"	X			1			
4	23	"	10:30a	X	X	X			1			
5	24	"	"	X	X	X			1			
6	25	"	"	X	X	X			1			
7	26	"	5:00pm	9.8	"	2.6			1			
8	27	"	"	"	"	2.6			1			
9	28	"	"	"	"	2.6			1			
10												

Special Comments: **x - not recorded. 2 day RUSH** Total # of Containers: **9**
 email results to clevirio@enviro@carlson.com
 (1) Relinquished by Signature: *[Signature]* Date: **9/9/11**
 Company: **CL Environmental**
 (1) Received by Signature: *[Signature]* Date: **9:00pm**
 Company: _____
 (2) Relinquished by Signature: _____ Date: _____
 Company: _____
 (2) Received by Signature: *[Signature]* Date: **8/11/11**
 Company: _____
 Date: **8/11/11** Time: **6:29**
 Coating Code: _____ Q / L / D
 Misc. Charges
 SHADED AREAS ARE FOR LAB USE ONLY

Login Sample Receipt Checklist

Client: CL Environmental

Job Number: 400-58519-1

Login Number: 58519

List Source: TestAmerica Pensacola

List Number: 1

Creator: Hor, Koma

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



REVIEW OF ANALYTICAL REPORT

JOB NUMBER: 400-59137-1

AUSJAM GOLD MINE

International Analytical Group, Inc. (IAG) has conducted an independent, third party review of the above referenced analytical report. The samples were analyzed by Test America Pensacola , a NELAC certified laboratory in Pensacola, Florida.

If you have any questions regarding this analytical report, please contact Maria Jackson at maria@iagenvironmental.com or (954) 894-4023.



ANALYTICAL REPORT

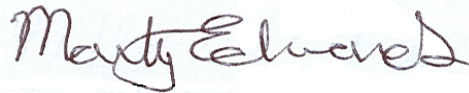
Job Number: 400-59137-1

Job Description: AusJam Gold Mine

For:

CL Environmental
22 Fort George Heights
Stony Hill,
Kingston 8, Jamaica

Attention: Carlton Campbell



Approved for release.
Marty Edwards
Senior Project Manager
9/12/2011 8:12 AM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
09/12/2011

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

TestAmerica Laboratories, Inc.

TestAmerica Pensacola 3355 McLemore Drive, Pensacola, FL 32514

Tel (850) 474-1001 Fax (850) 478-2671 www.testamericainc.com



Job Narrative
400-59137-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

General Chemistry

Method SM 4500 CN I: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 700-105747 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: CL Environmental

Job Number: 400-59137-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
400-59137-1 Cyanide, Total Cyanide, Free	AJ 1	12 3.1		0.25 0.10	mg/L mg/L	335.2 SM 4500 CN I
400-59137-2 Cyanide, Total Cyanide, Free	AJ 2	13 3.9		0.25 0.10	mg/L mg/L	335.2 SM 4500 CN I
400-59137-3 Cyanide, Total Cyanide, Free	AJ 3	14 2.9		0.25 0.10	mg/L mg/L	335.2 SM 4500 CN I
400-59137-4 Cyanide, Total Cyanide, Free	AJ 4	8.0 3.7		0.10 0.10	mg/L mg/L	335.2 SM 4500 CN I
400-59137-5 Cyanide, Total Cyanide, Free	AJ 5	0.14 0.050		0.0050 0.010	mg/L mg/L	335.2 SM 4500 CN I
400-59137-6 Cyanide, Total Cyanide, Free	AJ 6	20 3.0		0.25 0.10	mg/L mg/L	335.2 SM 4500 CN I
400-59137-7 Cyanide, Total Cyanide, Free	AJ 7	18 4.3		0.25 0.10	mg/L mg/L	335.2 SM 4500 CN I
400-59137-8 Cyanide, Total Cyanide, Free	AJ 8	22 3.2		0.25 0.10	mg/L mg/L	335.2 SM 4500 CN I

METHOD SUMMARY

Client: CL Environmental

Job Number: 400-59137-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Cyanide		TAL PEN	EPA 335.2	
	Distillation, Cyanide			Distill/CN
Cyanide, Weak Acid Dissociable		TAL MOB	SM SM 4500 CN I	
	Cyanide: Distillation			SM SM 4500 CN C

Lab References:

TAL MOB = TestAmerica Mobile

TAL PEN = TestAmerica Pensacola

Method References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

METHOD / ANALYST SUMMARY

Client: CL Environmental

Job Number: 400-59137-1

Method	Analyst	Analyst ID
EPA 335.2	Brooks, Barbara	BB
SM SM 4500 CN I	Hollins, Shelinda D	SDH

SAMPLE SUMMARY

Client: CL Environmental

Job Number: 400-59137-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-59137-1	AJ 1	Water	09/02/2011 1000	09/07/2011 1029
400-59137-2	AJ 2	Water	09/02/2011 1030	09/07/2011 1029
400-59137-3	AJ 3	Water	09/02/2011 1050	09/07/2011 1029
400-59137-4	AJ 4	Water	09/02/2011 1120	09/07/2011 1029
400-59137-5	AJ 5	Water	09/02/2011 1130	09/07/2011 1029
400-59137-6	AJ 6	Water	09/02/2011 1230	09/07/2011 1029
400-59137-7	AJ 7	Water	09/02/2011 1300	09/07/2011 1029
400-59137-8	AJ 8	Water	09/02/2011 1315	09/07/2011 1029

SAMPLE RESULTS

Client: CL Environmental

Job Number: 400-59137-1

General Chemistry

Client Sample ID: AJ 1

Lab Sample ID: 400-59137-1

Date Sampled: 09/02/2011 1000

Client Matrix: Water

Date Received: 09/07/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	12		mg/L	0.25	50	335.2
	Analysis Batch: 400-138856	Analysis Date: 09/08/2011 1411				
	Prep Batch: 400-138722	Prep Date: 09/07/2011 1530				
Cyanide, Free	3.1		mg/L	0.10	10	SM 4500 CN I
	Analysis Batch: 700-105747	Analysis Date: 09/09/2011 1537				
	Prep Batch: 700-105689	Prep Date: 09/09/2011 0810				

Client: CL Environmental

Job Number: 400-59137-1

General Chemistry

Client Sample ID: AJ 2

Lab Sample ID: 400-59137-2

Date Sampled: 09/02/2011 1030

Client Matrix: Water

Date Received: 09/07/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	13		mg/L	0.25	50	335.2
	Analysis Batch: 400-138856	Analysis Date: 09/08/2011 1411				
	Prep Batch: 400-138722	Prep Date: 09/07/2011 1530				
Cyanide, Free	3.9		mg/L	0.10	10	SM 4500 CN I
	Analysis Batch: 700-105747	Analysis Date: 09/09/2011 1537				
	Prep Batch: 700-105689	Prep Date: 09/09/2011 0810				

Client: CL Environmental

Job Number: 400-59137-1

General Chemistry

Client Sample ID: AJ 3

Lab Sample ID: 400-59137-3

Date Sampled: 09/02/2011 1050

Client Matrix: Water

Date Received: 09/07/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	14		mg/L	0.25	50	335.2
	Analysis Batch: 400-138856	Analysis Date: 09/08/2011 1419				
	Prep Batch: 400-138722	Prep Date: 09/07/2011 1530				
Cyanide, Free	2.9		mg/L	0.10	10	SM 4500 CN I
	Analysis Batch: 700-105747	Analysis Date: 09/09/2011 1537				
	Prep Batch: 700-105689	Prep Date: 09/09/2011 0810				

Client: CL Environmental

Job Number: 400-59137-1

General Chemistry

Client Sample ID: AJ 4

Lab Sample ID: 400-59137-4

Date Sampled: 09/02/2011 1120

Client Matrix: Water

Date Received: 09/07/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	8.0		mg/L	0.10	20	335.2
	Analysis Batch: 400-138856	Analysis Date: 09/08/2011 1426				
	Prep Batch: 400-138722	Prep Date: 09/07/2011 1530				
Cyanide, Free	3.7		mg/L	0.10	10	SM 4500 CN I
	Analysis Batch: 700-105747	Analysis Date: 09/09/2011 1537				
	Prep Batch: 700-105689	Prep Date: 09/09/2011 0810				

Client: CL Environmental

Job Number: 400-59137-1

General Chemistry

Client Sample ID: AJ 5

Lab Sample ID: 400-59137-5

Date Sampled: 09/02/2011 1130

Client Matrix: Water

Date Received: 09/07/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	0.14		mg/L	0.0050	1.0	335.2
	Analysis Batch: 400-138856	Analysis Date: 09/08/2011 1516				
	Prep Batch: 400-138722	Prep Date: 09/07/2011 1530				
Cyanide, Free	0.050		mg/L	0.010	1.0	SM 4500 CN I
	Analysis Batch: 700-105747	Analysis Date: 09/09/2011 1537				
	Prep Batch: 700-105689	Prep Date: 09/09/2011 0810				

Client: CL Environmental

Job Number: 400-59137-1

General Chemistry

Client Sample ID: AJ 6

Lab Sample ID: 400-59137-6

Date Sampled: 09/02/2011 1230

Client Matrix: Water

Date Received: 09/07/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	20		mg/L	0.25	50	335.2
	Analysis Batch: 400-138856	Analysis Date: 09/08/2011 1434				
	Prep Batch: 400-138722	Prep Date: 09/07/2011 1530				
Cyanide, Free	3.0		mg/L	0.10	10	SM 4500 CN I
	Analysis Batch: 700-105747	Analysis Date: 09/09/2011 1537				
	Prep Batch: 700-105689	Prep Date: 09/09/2011 0810				

Client: CL Environmental

Job Number: 400-59137-1

General Chemistry

Client Sample ID: AJ 7

Lab Sample ID: 400-59137-7

Date Sampled: 09/02/2011 1300

Client Matrix: Water

Date Received: 09/07/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	18		mg/L	0.25	50	335.2
	Analysis Batch: 400-138856	Analysis Date: 09/08/2011 1442				
	Prep Batch: 400-138722	Prep Date: 09/07/2011 1530				
Cyanide, Free	4.3		mg/L	0.10	10	SM 4500 CN I
	Analysis Batch: 700-105747	Analysis Date: 09/09/2011 1537				
	Prep Batch: 700-105689	Prep Date: 09/09/2011 0810				

Client: CL Environmental

Job Number: 400-59137-1

General Chemistry

Client Sample ID: AJ 8

Lab Sample ID: 400-59137-8

Date Sampled: 09/02/2011 1315

Client Matrix: Water

Date Received: 09/07/2011 1029

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	22		mg/L	0.25	50	335.2
	Analysis Batch: 400-138856	Analysis Date: 09/08/2011 1450				
	Prep Batch: 400-138722	Prep Date: 09/07/2011 1530				
Cyanide, Free	3.2		mg/L	0.10	10	SM 4500 CN I
	Analysis Batch: 700-105747	Analysis Date: 09/09/2011 1537				
	Prep Batch: 700-105689	Prep Date: 09/09/2011 0810				

QUALITY CONTROL RESULTS

Quality Control Results

Client: CL Environmental

Job Number: 400-59137-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Prep Batch: 700-105689					
LCS 700-105689/2-A	Lab Control Sample	T	Water	SM 4500 CN C	
LCSD 700-105689/3-A	Lab Control Sample Duplicate	T	Water	SM 4500 CN C	
MB 700-105689/1-A	Method Blank	T	Water	SM 4500 CN C	
400-59137-1	AJ 1	T	Water	SM 4500 CN C	
400-59137-2	AJ 2	T	Water	SM 4500 CN C	
400-59137-3	AJ 3	T	Water	SM 4500 CN C	
400-59137-4	AJ 4	T	Water	SM 4500 CN C	
400-59137-5	AJ 5	T	Water	SM 4500 CN C	
400-59137-6	AJ 6	T	Water	SM 4500 CN C	
400-59137-6MS	Matrix Spike	T	Water	SM 4500 CN C	
400-59137-6MSD	Matrix Spike Duplicate	T	Water	SM 4500 CN C	
400-59137-7	AJ 7	T	Water	SM 4500 CN C	
400-59137-8	AJ 8	T	Water	SM 4500 CN C	
Analysis Batch:700-105747					
LCS 700-105689/2-A	Lab Control Sample	T	Water	SM 4500 CN I	700-105689
LCSD 700-105689/3-A	Lab Control Sample Duplicate	T	Water	SM 4500 CN I	700-105689
MB 700-105689/1-A	Method Blank	T	Water	SM 4500 CN I	700-105689
400-59137-1	AJ 1	T	Water	SM 4500 CN I	700-105689
400-59137-2	AJ 2	T	Water	SM 4500 CN I	700-105689
400-59137-3	AJ 3	T	Water	SM 4500 CN I	700-105689
400-59137-4	AJ 4	T	Water	SM 4500 CN I	700-105689
400-59137-5	AJ 5	T	Water	SM 4500 CN I	700-105689
400-59137-6	AJ 6	T	Water	SM 4500 CN I	700-105689
400-59137-6MS	Matrix Spike	T	Water	SM 4500 CN I	700-105689
400-59137-6MSD	Matrix Spike Duplicate	T	Water	SM 4500 CN I	700-105689
400-59137-7	AJ 7	T	Water	SM 4500 CN I	700-105689
400-59137-8	AJ 8	T	Water	SM 4500 CN I	700-105689
Prep Batch: 400-138722					
LCS 400-138722/2-A	Lab Control Sample	T	Water	Distill/CN	
MB 400-138722/1-A	Method Blank	T	Water	Distill/CN	
400-59137-1	AJ 1	T	Water	Distill/CN	
400-59137-2	AJ 2	T	Water	Distill/CN	
400-59137-3	AJ 3	T	Water	Distill/CN	
400-59137-4	AJ 4	T	Water	Distill/CN	
400-59137-5	AJ 5	T	Water	Distill/CN	
400-59137-6	AJ 6	T	Water	Distill/CN	
400-59137-7	AJ 7	T	Water	Distill/CN	
400-59137-7DU	Duplicate	T	Water	Distill/CN	
400-59137-8	AJ 8	T	Water	Distill/CN	

Quality Control Results

Client: CL Environmental

Job Number: 400-59137-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:400-138856					
LCS 400-138722/2-A	Lab Control Sample	T	Water	335.2	400-138722
MB 400-138722/1-A	Method Blank	T	Water	335.2	400-138722
400-59137-1	AJ 1	T	Water	335.2	400-138722
400-59137-2	AJ 2	T	Water	335.2	400-138722
400-59137-3	AJ 3	T	Water	335.2	400-138722
400-59137-4	AJ 4	T	Water	335.2	400-138722
400-59137-5	AJ 5	T	Water	335.2	400-138722
400-59137-6	AJ 6	T	Water	335.2	400-138722
400-59137-7	AJ 7	T	Water	335.2	400-138722
400-59137-7DU	Duplicate	T	Water	335.2	400-138722
400-59137-8	AJ 8	T	Water	335.2	400-138722

Report Basis

T = Total

Quality Control Results

Client: CL Environmental

Job Number: 400-59137-1

Method Blank - Batch: 400-138722

Lab Sample ID: MB 400-138722/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 09/08/2011 1014
 Prep Date: 09/07/2011 1530
 Leach Date: N/A

Analysis Batch: 400-138856
 Prep Batch: 400-138722
 Leach Batch: N/A
 Units: mg/L

**Method: 335.2
 Preparation: Distill/CN**

Instrument ID: KONELAB
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Cyanide, Total	ND		0.0050

Lab Control Sample - Batch: 400-138722

Lab Sample ID: LCS 400-138722/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 09/08/2011 1516
 Prep Date: 09/07/2011 1530
 Leach Date: N/A

Analysis Batch: 400-138856
 Prep Batch: 400-138722
 Leach Batch: N/A
 Units: mg/L

**Method: 335.2
 Preparation: Distill/CN**

Instrument ID: KONELAB
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.346	0.364	105	85 - 115	

Duplicate - Batch: 400-138722

Lab Sample ID: 400-59137-7
 Client Matrix: Water
 Dilution: 50
 Analysis Date: 09/08/2011 1442
 Prep Date: 09/07/2011 1530
 Leach Date: N/A

Analysis Batch: 400-138856
 Prep Batch: 400-138722
 Leach Batch: N/A
 Units: mg/L

**Method: 335.2
 Preparation: Distill/CN**

Instrument ID: KONELAB
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Cyanide, Total	18	22.2	19	36	

Quality Control Results

Client: CL Environmental

Job Number: 400-59137-1

Method Blank - Batch: 700-105689

Lab Sample ID: MB 700-105689/1-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 09/09/2011 1537
 Prep Date: 09/09/2011 0810
 Leach Date: N/A

Analysis Batch: 700-105747
 Prep Batch: 700-105689
 Leach Batch: N/A
 Units: mg/L

**Method: SM 4500 CN I
 Preparation: SM 4500 CN C**

Instrument ID: Other
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Cyanide, Free	ND		0.010

**Lab Control Sample/
 Lab Control Sample Duplicate Recovery Report - Batch: 700-105689**

**Method: SM 4500 CN I
 Preparation: SM 4500 CN C**

LCS Lab Sample ID: LCS 700-105689/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 09/09/2011 1537
 Prep Date: 09/09/2011 0810
 Leach Date: N/A

Analysis Batch: 700-105747
 Prep Batch: 700-105689
 Leach Batch: N/A
 Units: mg/L

Instrument ID: Other
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 700-105689/3-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 09/09/2011 1537
 Prep Date: 09/09/2011 0810
 Leach Date: N/A

Analysis Batch: 700-105747
 Prep Batch: 700-105689
 Leach Batch: N/A
 Units: mg/L

Instrument ID: Other
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Cyanide, Free	92	93	80 - 120	1	30		

**Laboratory Control/
 Laboratory Duplicate Data Report - Batch: 700-105689**

**Method: SM 4500 CN I
 Preparation: SM 4500 CN C**

LCS Lab Sample ID: LCS 700-105689/2-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 09/09/2011 1537
 Prep Date: 09/09/2011 0810
 Leach Date: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 700-105689/3-A
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 09/09/2011 1537
 Prep Date: 09/09/2011 0810
 Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Cyanide, Free	0.532	0.532	0.492	0.495

Quality Control Results

Client: CL Environmental

Job Number: 400-59137-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-105689**

**Method: SM 4500 CN I
Preparation: SM 4500 CN C**

MS Lab Sample ID: 400-59137-6	Analysis Batch: 700-105747	Instrument ID: Other
Client Matrix: Water	Prep Batch: 700-105689	Lab File ID: N/A
Dilution: 10	Leach Batch: N/A	Initial Weight/Volume: 50 mL
Analysis Date: 09/09/2011 1537		Final Weight/Volume: 50 mL
Prep Date: 09/09/2011 0810		
Leach Date: N/A		

MSD Lab Sample ID: 400-59137-6	Analysis Batch: 700-105747	Instrument ID: Other
Client Matrix: Water	Prep Batch: 700-105689	Lab File ID: N/A
Dilution: 10	Leach Batch: N/A	Initial Weight/Volume: 50 mL
Analysis Date: 09/09/2011 1537		Final Weight/Volume: 50 mL
Prep Date: 09/09/2011 0810		
Leach Date: N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Cyanide, Free	-25	-191	75 - 125	37	25	4	4 F

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 700-105689**

**Method: SM 4500 CN I
Preparation: SM 4500 CN C**

MS Lab Sample ID: 400-59137-6	Units: mg/L	MSD Lab Sample ID: 400-59137-6
Client Matrix: Water		Client Matrix: Water
Dilution: 10		Dilution: 10
Analysis Date: 09/09/2011 1537		Analysis Date: 09/09/2011 1537
Prep Date: 09/09/2011 0810		Prep Date: 09/09/2011 0810
Leach Date: N/A		Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cyanide, Free	3.0	0.532	0.532	2.84 4	1.96 4 F

DATA REPORTING QUALIFIERS

Client: CL Environmental

Job Number: 400-59137-1

Lab Section	Qualifier	Description
General Chemistry		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	F	RPD of the MS and MSD exceeds the control limits

RUSH - 2 days!

INTERNATIONAL ANALYTICAL GROUP

CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))

5555 HOLLYWOOD BOULEVARD, SUITE 301, HOLLYWOOD, FLORIDA 33021
 PHONE: 954-894-4023 • FAX: 954-894-4501 • CELLULAR: 954-494-3272

400-59137

FDEP Facility No. _____
 Page 1 of 1
 Sampling CompQAP No. _____
 Approval Date: _____

Original - Return w/ Report

Yellow - Lab Copy

Pink - Sampler Copy

Report To: CARLTON CAMPBELL
 Bill To: **INTERNATIONAL ANALYTICAL GROUP (IAG)**
 Project Number/Name: Auslan Gold Mine
 Project Contact: CARLTON CAMPBELL
 Alternate Contact: Matthew Lee
 Sampled By (print): MATTHEW LEE
 Report To Address: 22 Fort George Heights Kyn. 9
 Billing Address: **P.O. BOX 814407, HOLLYWOOD, FLORIDA 33081-4407**
 Site Location: Clarendon, JAMAICA
 Phone: 876-371-2267
 Phone: 876-439-9584
 Sampler's Signature: [Signature]

ITEM	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	pH	TEMP °C	COND	MATRIX	SAMPLE LOCATION/ JOB DESCRIPTION	# CONTAINERS	ANALYSIS REQUIRED	Sample Condition as Received:		
											Temp	Sealed	Yes
23	AJ1	9/2/11	10:00 am				SW		1	Free Cyanide	3.7°C		
24	AJ2	9/2/11	10:30 am				SW		1				
25	AJ3	9/2/11	10:50 am				SW		1				
3	AJ4	9/2/11	11:20 am				SW		1				
4	AJ5	9/2/11	11:30 am				SW		1				
5	AJ6	9/2/11	12:30 pm				SW		1				
6	AJ7	9/2/11	1:00 pm				SW		1				
7	AJ8	9/2/11	1:15 pm				SW		1				
8													
9													
10													

Special Comments: email results to clenviro@cnjamaica.com RUSH - 2 days!

(1) Relinquished by Signature: [Signature] Date: 9/2/11
 Time: 2:00 pm
 Company: C.L. Environmental

(2) Relinquished by Signature: [Signature] Date: 9-7-11
 Time: 10:29
 Company: _____

(1) Received by Signature: _____ Date: _____
 Time: _____
 Company: _____

(2) Received by Signature: _____ Date: _____
 Time: _____
 Company: _____

Report Format: Standard
 DUE DATE REQUESTED: _____
 Confirmation # _____
 Coating Code: _____
 Misc. Charges: _____
 SHADED AREAS ARE FOR LAB USE ONLY

Login Sample Receipt Checklist

Client: CL Environmental

Job Number: 400-59137-1

Login Number: 59137

List Source: TestAmerica Pensacola

List Number: 1

Creator: Hor, Koma

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: CL Environmental

Job Number: 400-59137-1

Login Number: 59137

List Number: 1

Creator: Nou, Toum N

List Source: TestAmerica Mobile

List Creation: 09/08/11 11:42 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



REVIEW OF ANALYTICAL REPORT

JOB NUMBER: 400-60147-1

AUSJAM GOLD MINE

International Analytical Group, Inc. (IAG) has conducted an independent, third party review of the above referenced analytical report. The samples were analyzed by Test America Pensacola , a NELAC certified laboratory in Pensacola, Florida.

If you have any questions regarding this analytical report, please contact Maria Jackson at maria@iagenvironmental.com or (954) 894-4023.



ANALYTICAL REPORT

Job Number: 400-60147-1

Job Description: Ausjam Gold Mine

For:

CL Environmental
22 Fort George Heights
Stony Hill,
Kingston 8, Jamaica

Attention: Carlton Campbell



Approved for release.
Marty Edwards
Senior Project Manager
10/18/2011 4:07 PM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
10/18/2011

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

TestAmerica Laboratories, Inc.

TestAmerica Pensacola 3355 McLemore Drive, Pensacola, FL 32514

Tel (850) 474-1001 Fax (850) 478-2671 www.testamericainc.com



Job Narrative
400-60147-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method 3010A: The following samples submitted for metals analysis was received with insufficient preservation (pH >2): AJ 1 (400-60147-1), AJ 2 (400-60147-2), AJ 3 (400-60147-3), AJ 4 (400-60147-4), AJ 6 (400-60147-6), AJ 7 (400-60147-7). Adjusted pH to < 2.

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

METHOD SUMMARY

Client: CL Environmental

Job Number: 400-60147-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Silver		TAL PEN	SW846 6010B	
	Preparation, Total Metals			SW846 3010A
Cyanide		TAL PEN	EPA 335.2	
	Distillation, Cyanide			Distill/CN

Lab References:

TAL PEN = TestAmerica Pensacola

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: CL Environmental

Job Number: 400-60147-1

Method	Analyst	Analyst ID
SW846 6010B	St. Pere, Gary	GS
EPA 335.2	Brooks, Barbara	BB

SAMPLE SUMMARY

Client: CL Environmental

Job Number: 400-60147-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-60147-1	AJ 1	Water	10/13/2011 0903	10/14/2011 1018
400-60147-2	AJ 2	Water	10/13/2011 0913	10/14/2011 1018
400-60147-3	AJ 3	Water	10/13/2011 0925	10/14/2011 1018
400-60147-4	AJ 4	Water	10/13/2011 0938	10/14/2011 1018
400-60147-5	AJ 5	Water	10/13/2011 0950	10/14/2011 1018
400-60147-6	AJ 6	Water	10/13/2011 1020	10/14/2011 1018
400-60147-7	AJ 7	Water	10/13/2011 1026	10/14/2011 1018
400-60147-8	AJ 8	Water	10/13/2011 1034	10/14/2011 1018

Analytical Data

Client: CL Environmental

Job Number: 400-60147-1

Client Sample ID: AJ 1

Lab Sample ID: 400-60147-1

Date Sampled: 10/13/2011 0903

Client Matrix: Water

Date Received: 10/14/2011 1018

6010B Silver

Analysis Method: 6010B

Analysis Batch: 400-141933

Instrument ID: 6500 ICP Duo

Prep Method: 3010A

Prep Batch: 400-141801

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 10/17/2011 1548

Final Weight/Volume: 50 mL

Prep Date: 10/14/2011 1723

Analyte	Result (mg/L)	Qualifier	RL
Silver	0.014		0.0050

Analytical Data

Client: CL Environmental

Job Number: 400-60147-1

Client Sample ID: AJ 2

Lab Sample ID: 400-60147-2

Date Sampled: 10/13/2011 0913

Client Matrix: Water

Date Received: 10/14/2011 1018

6010B Silver

Analysis Method: 6010B

Analysis Batch: 400-141933

Instrument ID: 6500 ICP Duo

Prep Method: 3010A

Prep Batch: 400-141801

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 10/17/2011 1551

Final Weight/Volume: 50 mL

Prep Date: 10/14/2011 1723

Analyte	Result (mg/L)	Qualifier	RL
Silver	0.023		0.0050

Analytical Data

Client: CL Environmental

Job Number: 400-60147-1

Client Sample ID: AJ 3

Lab Sample ID: 400-60147-3

Date Sampled: 10/13/2011 0925

Client Matrix: Water

Date Received: 10/14/2011 1018

6010B Silver

Analysis Method: 6010B

Analysis Batch: 400-141933

Instrument ID: 6500 ICP Duo

Prep Method: 3010A

Prep Batch: 400-141801

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 10/17/2011 1555

Final Weight/Volume: 50 mL

Prep Date: 10/14/2011 1723

Analyte	Result (mg/L)	Qualifier	RL
Silver	0.018		0.0050

Analytical Data

Client: CL Environmental

Job Number: 400-60147-1

Client Sample ID: AJ 4

Lab Sample ID: 400-60147-4

Date Sampled: 10/13/2011 0938

Client Matrix: Water

Date Received: 10/14/2011 1018

6010B Silver

Analysis Method: 6010B

Analysis Batch: 400-141933

Instrument ID: 6500 ICP Duo

Prep Method: 3010A

Prep Batch: 400-141801

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 10/17/2011 1558

Final Weight/Volume: 50 mL

Prep Date: 10/14/2011 1723

Analyte	Result (mg/L)	Qualifier	RL
Silver	0.023		0.0050

Analytical Data

Client: CL Environmental

Job Number: 400-60147-1

Client Sample ID: AJ 5

Lab Sample ID: 400-60147-5

Date Sampled: 10/13/2011 0950

Client Matrix: Water

Date Received: 10/14/2011 1018

6010B Silver

Analysis Method: 6010B

Analysis Batch: 400-141933

Instrument ID: 6500 ICP Duo

Prep Method: 3010A

Prep Batch: 400-141801

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 10/17/2011 1601

Final Weight/Volume: 50 mL

Prep Date: 10/14/2011 1723

Analyte	Result (mg/L)	Qualifier	RL
Silver	ND		0.0050

Analytical Data

Client: CL Environmental

Job Number: 400-60147-1

Client Sample ID: AJ 6

Lab Sample ID: 400-60147-6

Date Sampled: 10/13/2011 1020

Client Matrix: Water

Date Received: 10/14/2011 1018

6010B Silver

Analysis Method: 6010B

Analysis Batch: 400-141933

Instrument ID: 6500 ICP Duo

Prep Method: 3010A

Prep Batch: 400-141801

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 10/17/2011 1605

Final Weight/Volume: 50 mL

Prep Date: 10/14/2011 1723

Analyte	Result (mg/L)	Qualifier	RL
Silver	0.025		0.0050

Analytical Data

Client: CL Environmental

Job Number: 400-60147-1

Client Sample ID: AJ 7

Lab Sample ID: 400-60147-7

Date Sampled: 10/13/2011 1026

Client Matrix: Water

Date Received: 10/14/2011 1018

6010B Silver

Analysis Method: 6010B

Analysis Batch: 400-141933

Instrument ID: 6500 ICP Duo

Prep Method: 3010A

Prep Batch: 400-141801

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 10/17/2011 1608

Final Weight/Volume: 50 mL

Prep Date: 10/14/2011 1723

Analyte	Result (mg/L)	Qualifier	RL
Silver	0.022		0.0050

Analytical Data

Client: CL Environmental

Job Number: 400-60147-1

Client Sample ID: AJ 8

Lab Sample ID: 400-60147-8

Date Sampled: 10/13/2011 1034

Client Matrix: Water

Date Received: 10/14/2011 1018

6010B Silver

Analysis Method: 6010B

Analysis Batch: 400-141933

Instrument ID: 6500 ICP Duo

Prep Method: 3010A

Prep Batch: 400-141801

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 50 mL

Analysis Date: 10/17/2011 1611

Final Weight/Volume: 50 mL

Prep Date: 10/14/2011 1723

Analyte	Result (mg/L)	Qualifier	RL
Silver	0.025		0.0050

Client: CL Environmental

Job Number: 400-60147-1

General Chemistry

Client Sample ID: AJ 1

Lab Sample ID: 400-60147-1

Client Matrix: Water

Date Sampled: 10/13/2011 0903

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	15		mg/L	0.25	50	335.2
	Analysis Batch: 400-141985	Analysis Date: 10/18/2011 1055				
	Prep Batch: 400-141761	Prep Date: 10/14/2011 0935				

Client: CL Environmental

Job Number: 400-60147-1

General Chemistry

Client Sample ID: AJ 2

Lab Sample ID: 400-60147-2

Date Sampled: 10/13/2011 0913

Client Matrix: Water

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	18		mg/L	0.25	50	335.2
	Analysis Batch: 400-141985	Analysis Date: 10/18/2011 1055				
	Prep Batch: 400-141761	Prep Date: 10/14/2011 1510				

Client: CL Environmental

Job Number: 400-60147-1

General Chemistry

Client Sample ID: AJ 3

Lab Sample ID: 400-60147-3

Date Sampled: 10/13/2011 0925

Client Matrix: Water

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	15		mg/L	0.25	50	335.2
	Analysis Batch: 400-141985	Analysis Date: 10/18/2011 1102				
	Prep Batch: 400-141761	Prep Date: 10/14/2011 1510				

Client: CL Environmental

Job Number: 400-60147-1

General Chemistry

Client Sample ID: AJ 4

Lab Sample ID: 400-60147-4

Client Matrix: Water

Date Sampled: 10/13/2011 0938

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	16		mg/L	0.25	50	335.2
	Analysis Batch: 400-141985	Analysis Date: 10/18/2011 1102				
	Prep Batch: 400-141761	Prep Date: 10/14/2011 1510				

Client: CL Environmental

Job Number: 400-60147-1

General Chemistry

Client Sample ID: AJ 5

Lab Sample ID: 400-60147-5

Client Matrix: Water

Date Sampled: 10/13/2011 0950

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	0.32		mg/L	0.0050	1.0	335.2
	Analysis Batch: 400-141985	Analysis Date: 10/18/2011 1047				
	Prep Batch: 400-141761	Prep Date: 10/14/2011 1510				

Client: CL Environmental

Job Number: 400-60147-1

General Chemistry

Client Sample ID: AJ 6

Lab Sample ID: 400-60147-6

Date Sampled: 10/13/2011 1020

Client Matrix: Water

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	19		mg/L	0.25	50	335.2
	Analysis Batch: 400-141985	Analysis Date: 10/18/2011 1055				
	Prep Batch: 400-141761	Prep Date: 10/14/2011 1510				

Client: CL Environmental

Job Number: 400-60147-1

General Chemistry

Client Sample ID: AJ 7

Lab Sample ID: 400-60147-7

Date Sampled: 10/13/2011 1026

Client Matrix: Water

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	23		mg/L	0.25	50	335.2
	Analysis Batch: 400-141985	Analysis Date: 10/18/2011 1055				
	Prep Batch: 400-141761	Prep Date: 10/14/2011 1510				

Client: CL Environmental

Job Number: 400-60147-1

General Chemistry

Client Sample ID: AJ 8

Lab Sample ID: 400-60147-8

Date Sampled: 10/13/2011 1034

Client Matrix: Water

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	14		mg/L	0.25	50	335.2
	Analysis Batch: 400-141985	Analysis Date: 10/18/2011 1055				
	Prep Batch: 400-141761	Prep Date: 10/14/2011 1510				

INTERNATIONAL ANALYTICAL GROUP 400-6047
 CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))

5555 HOLLYWOOD BOULEVARD, SUITE 301, HOLLYWOOD, FLORIDA 33021
 PHONE: 954-894-4023 • FAX: 954-894-4501 • CELLULAR: 954-494-3272

FDEP Facility No. _____
 Page 1 of 1
 Sampling CompQAP No. _____
 Approval Date: _____

Original - Return w/ Report Yellow - Lab Copy Pink - Sampler Copy

Report To: Matthew Lee / Carleton Campbell Report To Address: 22 Fort George Heights Kyn. 9
 Bill To: **INTERNATIONAL ANALYTICAL GROUP (IAG)** Billing Address: **P.O. BOX 814407, HOLLYWOOD, FLORIDA 33081-4407**
 Project Number/Name: Auslan Gold Mine Site Location: Clarendon
 Project Contact: C. Campbell Phone: 876 371 2267 FAX: 876 756 0338
 Alternate Contact: M. Lee Phone: 876 439 9584 FAX: _____
 Sampled By (print): MATTHEW LEE Sampler's Signature: [Signature]

ITEM Page 22	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	pH	TEMP °C	COND	MATRIX	SAMPLE LOCATION/ JOB DESCRIPTION	# CONTAINERS	ANALYSIS REQUIRED		Sample Condition as Received: Temp _____ C Sealed Yes No	Lot Number of Sampling Containers Used
										PLACE NAME OR METHOD NUMBER OF TESTS NEEDED IN LARGE BOXES BELOW.	(✓) CHECK OFF WHICH SAMPLE ITEMS NEED EACH TEST PERFORMED		
1	AJ 1	10.13.11	9:03				SW		3	Total Cyanide	✓		
2	AJ 2	~	9:13				SW		3	Gold	✓		
3	AJ 3	~	9:25				SW		3	Silver	✓		
4	AJ 4	~	9:38				SW		3		✓		
5	AJ 5	~	9:50				SW		3		✓		
6	AJ 6	~	10:20				SW		3		✓		
7	AJ 7	~	10:26				SW		3		✓		
8	AJ 8	~	10:34				SW		3		✓		
9													
10													

Special Comments: 2 DAY RUSH !!
email results to: clenorio@cwjamaica.com
 Total # of Containers: 24
 QA/QC Report Needed?: Yes No (See price guide for applicable fees)
 Report Format: Standard Other (specify) _____
 Relinquished by Signature: [Signature] Date: 10/13/11
 Relinquished by Signature: _____ Date: _____
 Company: C.L. Environmental
 Relinquished by Signature: _____ Date: 10/14-11
 Company: _____
 Relinquished by Signature: _____ Date: 10:13
 Company: _____
 DUE DATE REQUESTED: Confirmation # _____
 Coating Code: _____ Q / L / D
 Misc. Charges: _____
 SHADED AREAS ARE FOR LAB USE ONLY

Login Sample Receipt Checklist

Client: CL Environmental

Job Number: 400-60147-1

Login Number: 60147

List Source: TestAmerica Pensacola

List Number: 1

Creator: Hor, Koma

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



REVIEW OF ANALYTICAL REPORT

JOB NUMBER: 400-60147-2

AUSJAM GOLD MINE

International Analytical Group, Inc. (IAG) has conducted an independent, third party review of the above referenced analytical report. The samples were analyzed by Test America Pensacola , a NELAC certified laboratory in Pensacola, Florida.

If you have any questions regarding this analytical report, please contact Maria Jackson at maria@iagenvironmental.com or (954) 894-4023.



ANALYTICAL REPORT

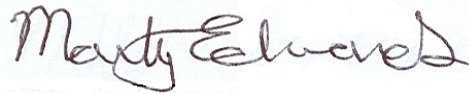
Job Number: 400-60147-2

Job Description: Ausjam Gold Mine

For:

CL Environmental
22 Fort George Heights
Stony Hill,
Kingston 8, Jamaica

Attention: Carlton Campbell



Approved for release.
Marty Edwards
Senior Project Manager
10/19/2011 4:23 PM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
10/19/2011

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

TestAmerica Laboratories, Inc.

TestAmerica Pensacola 3355 McLemore Drive, Pensacola, FL 32514

Tel (850) 474-1001 Fax (850) 478-2671 www.testamericainc.com



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Austin
14050 Summit Drive, Suite A100
Austin, TX 78728
Tel: 512-244-0855

TestAmerica Job ID: AUJ0197
Client Project/Site: 400-60147-2
Client Project Description: Ausjam Gold Mine

For:
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514

Attn: Marty Edwards



Authorized for release by:
10/19/2011 04:10:57 PM

Ryan Maxson
Project Manager Assistant
Ryan.Maxson@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.



Table of Contents

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Case Narrative

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Job ID: AUJ0197

Laboratory: TestAmerica Austin

Narrative

This report contains results for the samples received under chain-of-custody by TestAmerica Laboratories, Inc. 10/18/2011 9:45:00 AM .

These samples are associated with your **Ausjam Gold Mine** project.

All samples were received in good condition and within temperature requirements.

All applicable quality control procedures met method specified acceptance criteria except where flagged on the result pages or noted in the case narrative.

If you should have any questions, please feel free to contact me at ryan.maxson@testamericainc.com or (512) 310-5335.



Definitions/Glossary

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Client Sample ID: AJ 1 (400-60147-1)

Lab Sample ID: AUJ0197-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gold	162		5.00		ug/L	1.00		6020	Total

Client Sample ID: AJ 2 (400-60147-2)

Lab Sample ID: AUJ0197-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gold	197		5.00		ug/L	1.00		6020	Total

Client Sample ID: AJ 3 (400-60147-3)

Lab Sample ID: AUJ0197-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gold	152		5.00		ug/L	1.00		6020	Total

Client Sample ID: AJ 4 (400-60147-4)

Lab Sample ID: AUJ0197-04

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gold	174		5.00		ug/L	1.00		6020	Total

Client Sample ID: AJ 5 (400-60147-5)

Lab Sample ID: AUJ0197-05

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gold	5.11		5.00		ug/L	1.00		6020	Total

Client Sample ID: AJ 6 (400-60147-6)

Lab Sample ID: AUJ0197-06

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gold	107		5.00		ug/L	1.00		6020	Total

Client Sample ID: AJ 7 (400-60147-7)

Lab Sample ID: AUJ0197-07

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gold	104		5.00		ug/L	1.00		6020	Total

Client Sample ID: AJ 8 (400-60147-8)

Lab Sample ID: AUJ0197-08

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gold	113		5.00		ug/L	1.00		6020	Total

Sample Summary

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
AUJ0197-01	AJ 1 (400-60147-1)	Water	10/13/11 09:03	10/18/11 09:45
AUJ0197-02	AJ 2 (400-60147-2)	Water	10/13/11 09:13	10/18/11 09:45
AUJ0197-03	AJ 3 (400-60147-3)	Water	10/13/11 09:25	10/18/11 09:45
AUJ0197-04	AJ 4 (400-60147-4)	Water	10/13/11 09:38	10/18/11 09:45
AUJ0197-05	AJ 5 (400-60147-5)	Water	10/13/11 09:50	10/18/11 09:45
AUJ0197-06	AJ 6 (400-60147-6)	Water	10/13/11 10:20	10/18/11 09:45
AUJ0197-07	AJ 7 (400-60147-7)	Water	10/13/11 10:26	10/18/11 09:45
AUJ0197-08	AJ 8 (400-60147-8)	Water	10/13/11 10:34	10/18/11 09:45



Client Sample Results

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Client Sample ID: AJ 1 (400-60147-1)

Lab Sample ID: AUJ0197-01

Date Collected: 10/13/11 09:03

Matrix: Water

Date Received: 10/18/11 09:45

Method: 6020 - Total Metals by SW846 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gold	162		5.00		ug/L		10/18/11 10:19	10/18/11 16:52	1.00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Client Sample ID: AJ 2 (400-60147-2)

Lab Sample ID: AUJ0197-02

Date Collected: 10/13/11 09:13

Matrix: Water

Date Received: 10/18/11 09:45

Method: 6020 - Total Metals by SW846 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gold	197		5.00		ug/L		10/18/11 10:19	10/18/11 17:07	1.00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Client Sample ID: AJ 3 (400-60147-3)

Lab Sample ID: AUJ0197-03

Date Collected: 10/13/11 09:25

Matrix: Water

Date Received: 10/18/11 09:45

Method: 6020 - Total Metals by SW846 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gold	152		5.00		ug/L		10/18/11 10:19	10/18/11 17:10	1.00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Client Sample ID: AJ 4 (400-60147-4)

Lab Sample ID: AUJ0197-04

Date Collected: 10/13/11 09:38

Matrix: Water

Date Received: 10/18/11 09:45

Method: 6020 - Total Metals by SW846 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gold	174		5.00		ug/L		10/18/11 10:19	10/18/11 17:13	1.00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Client Sample ID: AJ 5 (400-60147-5)

Lab Sample ID: AUJ0197-05

Date Collected: 10/13/11 09:50

Matrix: Water

Date Received: 10/18/11 09:45

Method: 6020 - Total Metals by SW846 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gold	5.11		5.00		ug/L		10/18/11 10:19	10/19/11 12:16	1.00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Client Sample ID: AJ 6 (400-60147-6)

Lab Sample ID: AUJ0197-06

Date Collected: 10/13/11 10:20

Matrix: Water

Date Received: 10/18/11 09:45

Method: 6020 - Total Metals by SW846 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gold	107		5.00		ug/L		10/18/11 10:19	10/19/11 12:19	1.00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Client Sample ID: AJ 7 (400-60147-7)

Lab Sample ID: AUJ0197-07

Date Collected: 10/13/11 10:26

Matrix: Water

Date Received: 10/18/11 09:45

Method: 6020 - Total Metals by SW846 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gold	104		5.00		ug/L		10/18/11 10:19	10/19/11 12:22	1.00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Client Sample ID: AJ 8 (400-60147-8)

Lab Sample ID: AUJ0197-08

Date Collected: 10/13/11 10:34

Matrix: Water

Date Received: 10/18/11 09:45

Method: 6020 - Total Metals by SW846 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gold	113		5.00		ug/L		10/18/11 10:19	10/19/11 12:25	1.00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Method Summary

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Method	Method Description	Protocol	Laboratory
6020	Total Metals by SW846 Series Methods		TAL AUS

Protocol References:

Laboratory References:

TAL AUS = TestAmerica Austin, 14050 Summit Drive, Suite A100, Austin, TX 78728, TEL 512-244-0855



Lab Chronicle

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Client Sample ID: AJ 1 (400-60147-1)

Lab Sample ID: AUJ0197-01

Date Collected: 10/13/11 09:03

Matrix: Water

Date Received: 10/18/11 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3020A MS		5.00	11J0220_P	10/18/11 10:19	RHH	TAL AUS
Total	Analysis	6020		1.00	U000728	10/18/11 16:52	XBE	TAL AUS

Client Sample ID: AJ 2 (400-60147-2)

Lab Sample ID: AUJ0197-02

Date Collected: 10/13/11 09:13

Matrix: Water

Date Received: 10/18/11 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3020A MS		5.00	11J0220_P	10/18/11 10:19	RHH	TAL AUS
Total	Analysis	6020		1.00	U000728	10/18/11 17:07	XBE	TAL AUS

Client Sample ID: AJ 3 (400-60147-3)

Lab Sample ID: AUJ0197-03

Date Collected: 10/13/11 09:25

Matrix: Water

Date Received: 10/18/11 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3020A MS		5.00	11J0220_P	10/18/11 10:19	RHH	TAL AUS
Total	Analysis	6020		1.00	U000728	10/18/11 17:10	XBE	TAL AUS

Client Sample ID: AJ 4 (400-60147-4)

Lab Sample ID: AUJ0197-04

Date Collected: 10/13/11 09:38

Matrix: Water

Date Received: 10/18/11 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3020A MS		5.00	11J0220_P	10/18/11 10:19	RHH	TAL AUS
Total	Analysis	6020		1.00	U000728	10/18/11 17:13	XBE	TAL AUS

Client Sample ID: AJ 5 (400-60147-5)

Lab Sample ID: AUJ0197-05

Date Collected: 10/13/11 09:50

Matrix: Water

Date Received: 10/18/11 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3020A MS		5.00	11J0220_P	10/18/11 10:19	RHH	TAL AUS
Total	Analysis	6020		1.00	U000728	10/19/11 12:16	XBE	TAL AUS

Client Sample ID: AJ 6 (400-60147-6)

Lab Sample ID: AUJ0197-06

Date Collected: 10/13/11 10:20

Matrix: Water

Date Received: 10/18/11 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3020A MS		5.00	11J0220_P	10/18/11 10:19	RHH	TAL AUS
Total	Analysis	6020		1.00	U000728	10/19/11 12:19	XBE	TAL AUS

Lab Chronicle

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Client Sample ID: AJ 7 (400-60147-7)

Lab Sample ID: AUJ0197-07

Date Collected: 10/13/11 10:26

Matrix: Water

Date Received: 10/18/11 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3020A MS		5.00	11J0220_P	10/18/11 10:19	RHH	TAL AUS
Total	Analysis	6020		1.00	U000728	10/19/11 12:22	XBE	TAL AUS

Client Sample ID: AJ 8 (400-60147-8)

Lab Sample ID: AUJ0197-08

Date Collected: 10/13/11 10:34

Matrix: Water

Date Received: 10/18/11 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	3020A MS		5.00	11J0220_P	10/18/11 10:19	RHH	TAL AUS
Total	Analysis	6020		1.00	U000728	10/19/11 12:25	XBE	TAL AUS

Laboratory References:

TAL AUS = TestAmerica Austin, 14050 Summit Drive, Suite A100, Austin, TX 78728, TEL 512-244-0855

QC Association Summary

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Metals

Analysis Batch: U000728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J0220-BLK1	Method Blank	Total	Water	6020	11J0220_P
11J0220-BS1	Lab Control Sample	Total	Water	6020	11J0220_P
11J0220-MS1	AJ 1 (400-60147-1)	Total	Water	6020	11J0220_P
11J0220-MSD1	AJ 1 (400-60147-1)	Total	Water	6020	11J0220_P
11J0220-PS1	AJ 1 (400-60147-1)	Total	Water	6020	11J0220_P
AUJ0197-01	AJ 1 (400-60147-1)	Total	Water	6020	11J0220_P
AUJ0197-02	AJ 2 (400-60147-2)	Total	Water	6020	11J0220_P
AUJ0197-03	AJ 3 (400-60147-3)	Total	Water	6020	11J0220_P
AUJ0197-04	AJ 4 (400-60147-4)	Total	Water	6020	11J0220_P
AUJ0197-05	AJ 5 (400-60147-5)	Total	Water	6020	11J0220_P
AUJ0197-06	AJ 6 (400-60147-6)	Total	Water	6020	11J0220_P
AUJ0197-07	AJ 7 (400-60147-7)	Total	Water	6020	11J0220_P
AUJ0197-08	AJ 8 (400-60147-8)	Total	Water	6020	11J0220_P

Prep Batch: 11J0220_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11J0220-BLK1	Method Blank	Total	Water	3020A MS	
11J0220-BS1	Lab Control Sample	Total	Water	3020A MS	
11J0220-MS1	AJ 1 (400-60147-1)	Total	Water	3020A MS	
11J0220-MSD1	AJ 1 (400-60147-1)	Total	Water	3020A MS	
11J0220-PS1	AJ 1 (400-60147-1)	Total	Water	3020A MS	
AUJ0197-01	AJ 1 (400-60147-1)	Total	Water	3020A MS	
AUJ0197-02	AJ 2 (400-60147-2)	Total	Water	3020A MS	
AUJ0197-03	AJ 3 (400-60147-3)	Total	Water	3020A MS	
AUJ0197-04	AJ 4 (400-60147-4)	Total	Water	3020A MS	
AUJ0197-05	AJ 5 (400-60147-5)	Total	Water	3020A MS	
AUJ0197-06	AJ 6 (400-60147-6)	Total	Water	3020A MS	
AUJ0197-07	AJ 7 (400-60147-7)	Total	Water	3020A MS	
AUJ0197-08	AJ 8 (400-60147-8)	Total	Water	3020A MS	

QC Sample Results

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Method: 6020 - Total Metals by SW846 Series Methods

Lab Sample ID: 11J0220-BLK1
Matrix: Water
Analysis Batch: U000728

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 11J0220_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gold	ND		1.00		ug/L		10/18/11 10:19	10/18/11 16:47	1.00

Lab Sample ID: 11J0220-BS1
Matrix: Water
Analysis Batch: U000728

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 11J0220_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Gold	50.00	42.2		ug/L		84	80 - 120

Lab Sample ID: 11J0220-MS1
Matrix: Water
Analysis Batch: U000728

Client Sample ID: AJ 1 (400-60147-1)
Prep Type: Total
Prep Batch: 11J0220_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec. Limits
Gold	162		250.0	462		ug/L		120	75 - 125

Lab Sample ID: 11J0220-MSD1
Matrix: Water
Analysis Batch: U000728

Client Sample ID: AJ 1 (400-60147-1)
Prep Type: Total
Prep Batch: 11J0220_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Gold	162		250.0	436		ug/L		109	75 - 125	6	20

Certification Summary

Client: TestAmerica Pensacola
Project/Site: 400-60147-2

TestAmerica Job ID: AUJ0197

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Austin	Arkansas	State Program	6	88-0685
TestAmerica Austin	California	State Program	9	2411
TestAmerica Austin	Kansas	NELAC	7	E-10165
TestAmerica Austin	Louisiana	NELAC	6	30736
TestAmerica Austin	North Carolina	North Carolina DENR	4	302
TestAmerica Austin	Oklahoma	State Program	6	8720
TestAmerica Austin	Pennsylvania	NELAC	3	68-04085
TestAmerica Austin	South Carolina	State Program	4	82003
TestAmerica Austin	Texas	NELAC	6	T104704217-11-9
TestAmerica Austin	USDA	USDA		P330-08-00046

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica – Austin Laboratory Chain of Custody Addendum Work Order Number AUS0197

RECEIVED BY: RL CLIENT: TA Pensacola
 DATE/TIME RECEIVED: 10/18/11 0945 PROJECT: Austam Gold Mine
 UNPACKED DATE/TIME: 10/18/11 1000 LOGIN BY: RLM LOGIN REVIEWED BY: JNS

Number of Shipping Containers Received with COC: 1
VOC SAMPLES: YES (IF YES, GO TO SECTIONS 1.0, 2.0, 6.0, & 7.0)

1.0 CONTAINERS EXAMINED UPON RECEIPT: RL
 Container Sealed: YES NO Custody Seal Present: YES NO Custody Seal Signed/Dated: YES NO
 If seal not intact list air bill number of that container(s): _____

2.0 VOC CANISTERS EXAMINED UPON RECEIPT:
 Canister Valves Closed: YES NO Canister Valves Capped: YES NO
 Sample IDs match COC: YES NO Other Equipment Received: YES NO
 Valve Cap Tightened Properly: YES NO Can Size: 6L 1L Other: _____
 Packing Material Used: (circle) None / Absorbent / Paper / Bubble Wrap
 Samples received in Tedlar bags N/A YES NO

3.0 CONDITION OF BOTTLES/CONTAINERS VERIFIED BY: RL
 Sample IDs match COC: YES NO Bottles received intact: YES NO
 See additional discrepancies/comments section: YES NO Samples received from USDA restricted area: YES NO
 Chain-of-Custody form properly maintained: YES NO VOA trip blanks included: N/A YES NO

4.0 SAMPLE TEMPERATURE UPON RECEIPT BY: _____ **IR THERMOMETER #:** P5 P7
 Container(s) temperature: TB = Temp. Blank and/or SC = Sample Container CF = Correction Factor [acceptable tolerance $\leq 6^{\circ}C$]

TB <input type="checkbox"/> SC <input checked="" type="checkbox"/>	TB <input type="checkbox"/> SC <input type="checkbox"/>	TB <input type="checkbox"/> SC <input type="checkbox"/>	TB <input type="checkbox"/> SC <input type="checkbox"/>	TB <input type="checkbox"/> SC <input type="checkbox"/>	TB <input type="checkbox"/> SC <input type="checkbox"/>	TB <input type="checkbox"/> SC <input type="checkbox"/>	TB <input type="checkbox"/> SC <input type="checkbox"/>
Initial <u>19.4</u>	Initial	Initial	Initial	Initial	Initial	Initial	Initial
CF <u>-0.3</u>	CF	CF	CF	CF	CF	CF	CF
Final <u>19.1</u>	Final	Final	Final	Final	Final	Final	Final

If temperature is outside acceptable tolerance, Project Manager was notified (_____ PM). Date: _____ Time: _____
 Samples received do not require cooling RL - metals OK to analyze samples: YES NO

5.0 PRESERVATION CHECKS
PRESERVATION OF SAMPLES REQUIRED: N/A YES VOA Samples VERIFIED BY: RL
NOTE: pH CHECK OF SAMPLES PERFORMED AT TIME OF ANALYSIS BY BENCH ANALYST
pH CHECK OF VOLATILE SAMPLES PERFORMED AFTER ANALYSIS BY THE BENCH ANALYST.

Cyanide samples checked for sulfides: YES NO
 Sulfide samples appear to be preserved with zinc acetate: YES NO
 Chlorine checked per specification (EPA 335.x & N.C.): YES NO Free chlorine present: YES NO
 If preservation is outside acceptable limit, PM notified (_____ PM) Date/Time: _____
 Volatile samples filled completely: YES NO [if no, list ID and approx. amt. of headspace (>6mm) in Comments Section 7.0]

6.0 SHIPPING DOCUMENTATION:
 Air/freight bill is available and attached to COC: YES NO Air bill #: _____
 Hand-delivered Carrier: _____ Date: _____ Time: _____

7.0 OTHER COMMENTS:

8.0 CORRECTIVE ACTION:
 Client's Name: _____ Informed verbally on: _____ By: _____
 Client's Name: _____ Informed verbally on: _____ By: _____
 Sample(s) processed "as is" comments: _____

Samples(s) on hold until: _____ If released, notify: _____
 Project Management Login Review: RL Date: 10/19/11

3355 McLeomore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

AUG 5 0197

Client Information (Sub Contract Lab)
 Company: TestAmerica Laboratories, Inc.
 Address: 14050 Summit Drive, Suite A100,
 City: Austin
 State, Zip: TX, 78728
 Phone: _____
 Email: _____
 Project Name: Ausjeam Gold Mine
 Site: _____

Lab PM: Edwards, Marty
 E-Mail: marty.edwards@testamericainc.com

Carrier Tracking No(s): _____

Due Date Requested: 10/20/11
 TAT Requested (days): 2 Day Rush
 Job #: 400-60147-2
 Page: 1 of 1

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers
AJ 1 (400-60147-1)	10/13/11	09:03 Eastern	(C=Comp, G=grab)	Water	X	6020 Gold	1
AJ 2 (400-60147-2)	10/13/11	09:13 Eastern	(C=Comp, G=grab)	Water	X		1
AJ 3 (400-60147-3)	10/13/11	09:25 Eastern	(C=Comp, G=grab)	Water	X		1
AJ 4 (400-60147-4)	10/13/11	09:38 Eastern	(C=Comp, G=grab)	Water	X		1
AJ 5 (400-60147-5)	10/13/11	09:50 Eastern	(C=Comp, G=grab)	Water	X		1
AJ 6 (400-60147-6)	10/13/11	10:20 Eastern	(C=Comp, G=grab)	Water	X		1
AJ 7 (400-60147-7)	10/13/11	10:26 Eastern	(C=Comp, G=grab)	Water	X		1
AJ 8 (400-60147-8)	10/13/11	10:34 Eastern	(C=Comp, G=grab)	Water	X		1

Analysis Requested

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amplier
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - BDA
 M - Hexane
 N - None
 O - AsHClO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Z - other (specify)

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) _____

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: 10-17-11 17:00 Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No.: _____

Special Instructions/Note: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Method of Shipment: _____

Received by: _____ Date/Time: 10/18/11 0945 Company: T/A Austin

Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: _____

FDEP Facility No. _____
 Page 1 of 1
 Sampling CompQAP No. _____
 Approval Date: _____

INTERNATIONAL ANALYTICAL GROUP 400-60447
 CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))
 5555 HOLLYWOOD BOULEVARD, SUITE 301, HOLLYWOOD, FLORIDA 33021
 PHONE: 954-894-4023 • FAX: 954-894-4501 • CELLULAR: 954-494-3272

Original - Return w/ Report
 Yellow - Lab Copy
 Pink - Sampler Copy

Submission Code: _____
 Orders: _____
 Entered to lims: _____

Report To: Matthew Lee / Carston Campbell
 Report To Address: 22 Fort George Heights Kyn. 9
 Billing Address: P.O. BOX 814407, HOLLYWOOD, FLORIDA 33081-4407
 Project Number/Name: Auslan Gold Mine
 Site Location: Clarendon
 Project Contact: C. Campbell
 Phone: 876 371 2267
 FAX: 876 756 0338
 Alternate Contact: M. Lee
 Phone: 876 439 9584
 Sampled By (print): MATTHEW LEE
 Sampler's Signature: [Signature]

INTERNATIONAL ANALYTICAL GROUP (IAG)
 Project Number/Name: Auslan Gold Mine
 Site Location: Clarendon
 Project Contact: C. Campbell
 Phone: 876 371 2267
 FAX: 876 756 0338
 Alternate Contact: M. Lee
 Phone: 876 439 9584
 Sampled By (print): MATTHEW LEE
 Sampler's Signature: [Signature]

ITEM	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	pH	TEMP °C	COND	MATRIX	SAMPLE LOCATION/ JOB DESCRIPTION	# CONTAINERS	ANALYSIS REQUIRED		Sample Condition as Received: Temp _____ C Sealed Yes No	Lot Number of Sampling Containers Used	
										PLACE NAME OR METHOD NUMBER OF TESTS NEEDED IN LARGE BOXES BELOW.	(✓) CHECK OFF WHICH SAMPLE ITEMS NEED EACH TEST PERFORMED			
1	AJ 1	10.13.11	9:03				SW		3	Total Cyanide	✓			
2	AJ 2	~	9:13				SW		3	Gold	✓			
3	AJ 3	~	9:25				SW		3	Silver	✓			
4	AJ 4	~	9:38				SW		3		✓			
5	AJ 5	~	9:50				SW		3		✓			
6	AJ 6	~	10:20				SW		3		✓			
7	AJ 7	~	10:26				SW		3		✓			
8	AJ 8	~	10:34				SW		3		✓			
9														
10														

Special Comments: 2 DAY RUSH !!
email results to: clenvis@cwjamaica.com
 Total # of Containers: 24
 QA/QC Report Needed?: Yes No (See price guide for applicable fees)
 Report Format: Standard Other (specify)
 (1) Relinquished by Signature: [Signature] Date: 10/13/11
 (2) Relinquished by Signature: _____ Date: _____
 Company: C.L. Environmental
 (1) Received by Signature: _____ Date: 10-14-11
 (2) Received by Signature: [Signature] Date: 10:13
 Company: _____
 Coating Code: _____ Q / L / D
 Misc. Charges: _____
 SHADED AREAS ARE FOR LAB USE ONLY



REVIEW OF ANALYTICAL REPORT

JOB NUMBER: 400-60147-3

AUSJAM GOLD MINE

International Analytical Group, Inc. (IAG) has conducted an independent, third party review of the above referenced analytical report. The samples were analyzed by Test America Pensacola , a NELAC certified laboratory in Pensacola, Florida.

If you have any questions regarding this analytical report, please contact Maria Jackson at maria@iagenvironmental.com or (954) 894-4023.



ANALYTICAL REPORT

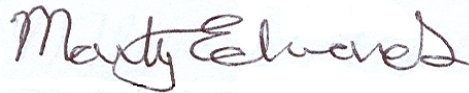
Job Number: 400-60147-3

Job Description: Ausjam Gold Mine

For:

CL Environmental
22 Fort George Heights
Stony Hill,
Kingston 8, Jamaica

Attention: Carlton Campbell



Approved for release.
Marty Edwards
Senior Project Manager
10/26/2011 3:59 PM

Marty Edwards
Senior Project Manager
marty.edwards@testamericainc.com
10/26/2011

The test results in this report meet all NELAP requirements for accredited parameters, unless otherwise noted, and relate only to the referenced samples. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval from the laboratory. For questions please contact the Project Manager at the e-mail address listed on this page, or the telephone number at the bottom of the page. TestAmerica Pensacola Certifications and Approvals: Alabama (40150), Arizona (AZ0710), Arkansas (88-0689), Florida (E81010), Illinois (200041), Iowa (367), Kansas (E-10253), Kentucky UST (53), Louisiana (30748), Maryland (233), Massachusetts (M-FL094), Michigan (9912), New Hampshire (250510), New Jersey (FL006), North Carolina (314), Oklahoma (9810), Pennsylvania (68-00467), Rhode Island (LAO00307), South Carolina (96026), Tennessee (TN02907), Texas (T104704286-10-2), Virginia (00008), Washington (C2043), West Virginia (136), USDA Foreign Soil Permit (P330-08-00006).

TestAmerica Laboratories, Inc.

TestAmerica Pensacola 3355 McLemore Drive, Pensacola, FL 32514

Tel (850) 474-1001 Fax (850) 478-2671 www.testamericainc.com



METHOD SUMMARY

Client: CL Environmental

Job Number: 400-60147-3

Description	Lab Location	Method	Preparation Method
Matrix Water			
Free Cyanide Cyanide: Distillation	TAL MOB	SM 4500 CN I	SM SM 4500 CN C

Lab References:

TAL MOB = TestAmerica Mobile

Method References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

METHOD / ANALYST SUMMARY

Client: CL Environmental

Job Number: 400-60147-3

Method	Analyst	Analyst ID
SM 4500 CN I	Hollins, Shelinda D	SDH

SAMPLE SUMMARY

Client: CL Environmental

Job Number: 400-60147-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-60147-1	AJ 1	Water	10/13/2011 0903	10/14/2011 1018
400-60147-2	AJ 2	Water	10/13/2011 0913	10/14/2011 1018
400-60147-3	AJ 3	Water	10/13/2011 0925	10/14/2011 1018
400-60147-4	AJ 4	Water	10/13/2011 0938	10/14/2011 1018
400-60147-5	AJ 5	Water	10/13/2011 0950	10/14/2011 1018
400-60147-6	AJ 6	Water	10/13/2011 1020	10/14/2011 1018
400-60147-7	AJ 7	Water	10/13/2011 1026	10/14/2011 1018
400-60147-8	AJ 8	Water	10/13/2011 1034	10/14/2011 1018

Client: CL Environmental

Job Number: 400-60147-3

General Chemistry

Client Sample ID: AJ 1

Lab Sample ID: 400-60147-1

Date Sampled: 10/13/2011 0903

Client Matrix: Water

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Free	0.99		mg/L	0.10	10	4500 CN I
	Analysis Batch: 700-107936	Analysis Date: 10/25/2011 1507				
	Prep Batch: 700-107880	Prep Date: 10/25/2011 1230				

Client: CL Environmental

Job Number: 400-60147-3

General Chemistry

Client Sample ID: AJ 2

Lab Sample ID: 400-60147-2

Date Sampled: 10/13/2011 0913

Client Matrix: Water

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Free	1.1		mg/L	0.10	10	4500 CN I
	Analysis Batch: 700-107936	Analysis Date: 10/25/2011 1507				
	Prep Batch: 700-107880	Prep Date: 10/25/2011 1230				

Client: CL Environmental

Job Number: 400-60147-3

General Chemistry

Client Sample ID: AJ 3

Lab Sample ID: 400-60147-3

Date Sampled: 10/13/2011 0925

Client Matrix: Water

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Free	1.3		mg/L	0.10	10	4500 CN I
	Analysis Batch: 700-107936	Analysis Date: 10/25/2011 1507				
	Prep Batch: 700-107880	Prep Date: 10/25/2011 1230				

Client: CL Environmental

Job Number: 400-60147-3

General Chemistry

Client Sample ID: AJ 4

Lab Sample ID: 400-60147-4

Client Matrix: Water

Date Sampled: 10/13/2011 0938

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Free	0.95		mg/L	0.010	1.0	4500 CN I
	Analysis Batch: 700-107936	Analysis Date: 10/25/2011 1507				
	Prep Batch: 700-107880	Prep Date: 10/25/2011 1230				

Client: CL Environmental

Job Number: 400-60147-3

General Chemistry

Client Sample ID: AJ 5

Lab Sample ID: 400-60147-5

Date Sampled: 10/13/2011 0950

Client Matrix: Water

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Free	0.078		mg/L	0.010	1.0	4500 CN I
	Analysis Batch: 700-107936	Analysis Date: 10/25/2011 1507				
	Prep Batch: 700-107880	Prep Date: 10/25/2011 1230				

Client: CL Environmental

Job Number: 400-60147-3

General Chemistry

Client Sample ID: AJ 6

Lab Sample ID: 400-60147-6

Date Sampled: 10/13/2011 1020

Client Matrix: Water

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Free	2.1		mg/L	0.10	10	4500 CN I
	Analysis Batch: 700-107936	Analysis Date: 10/25/2011 1507				
	Prep Batch: 700-107880	Prep Date: 10/25/2011 1230				

Client: CL Environmental

Job Number: 400-60147-3

General Chemistry

Client Sample ID: AJ 7

Lab Sample ID: 400-60147-7

Client Matrix: Water

Date Sampled: 10/13/2011 1026

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Free	1.8		mg/L	0.10	10	4500 CN I
	Analysis Batch: 700-107936	Analysis Date: 10/25/2011 1507				
	Prep Batch: 700-107880	Prep Date: 10/25/2011 1230				

Client: CL Environmental

Job Number: 400-60147-3

General Chemistry

Client Sample ID: AJ 8

Lab Sample ID: 400-60147-8

Date Sampled: 10/13/2011 1034

Client Matrix: Water

Date Received: 10/14/2011 1018

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Free	0.93		mg/L	0.010	1.0	4500 CN I
	Analysis Batch: 700-107936	Analysis Date: 10/25/2011 1507				
	Prep Batch: 700-107880	Prep Date: 10/25/2011 1230				

FDEP Facility No. _____
 Page 1 of 1
 Sampling CompQAP No. _____
 Approval Date: _____

INTERNATIONAL ANALYTICAL GROUP 400-60147
 CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))
 5555 HOLLYWOOD BOULEVARD, SUITE 301, HOLLYWOOD, FLORIDA 33021
 PHONE: 954-894-4023 • FAX: 954-894-4501 • CELLULAR: 954-494-3272

Original - Return w/ Report
 Yellow - Lab Copy
 Pink - Sampler Copy

Submission Code: _____
 Orders: _____
 Entered to: _____

Report To: Matthew Lee / Carleton Campbell
 Report To Address: 22 Fort George Heights Kyn. 9
 Billing Address: P.O. BOX 814407, HOLLYWOOD, FLORIDA 33081-4407
 Project Number/Name: Auslan Gold Mine
 Site Location: Clarendon
 Project Contact: C. Campbell
 Phone: 876 371 2267
 FAX: 876 756 0338
 Alternate Contact: M. Lee
 Phone: 876 439 9584
 FAX: _____
 Sampled By (print): MATTHEW LEE
 Sampler's Signature: [Signature]

Report To: INTERNATIONAL ANALYTICAL GROUP (IAG)
 Report To Address: _____
 Billing Address: _____
 Project Number/Name: _____
 Site Location: _____
 Project Contact: _____
 Phone: _____
 FAX: _____
 Alternate Contact: _____
 Phone: _____
 FAX: _____
 Sampled By (print): _____
 Sampler's Signature: _____

ITEM #	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	pH	TEMP °C	COND	MATRIX	SAMPLE LOCATION/JOB DESCRIPTION	# CONTAINERS	ANALYSIS REQUIRED		Sample Condition as Received: Temp _____ C Sealed Yes No
										PLACE NAME OR METHOD NUMBER OF TESTS NEEDED IN LARGE BOXES BELOW.	(✓) CHECK OFF WHICH SAMPLE ITEMS NEED EACH TEST PERFORMED	
1	AJ 1	10.13.11	9:03				SW		3	Total Cyanide	✓	
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5	AJ 5	~	9:50				SW		3		✓	
6	AJ 6	~	10:20				SW		3		✓	
7	AJ 7	~	10:26				SW		3		✓	
8	AJ 8	~	10:34				SW		3		✓	
9												
10												

Special Comments: 2 DAY RUSH !!
email results to: clenorio@cwjamaica.com
 Total # of Containers: 24
 QA/QC Report Needed?: Yes No (See price guide for applicable fees)
 Report Format: Standard Other (specify)
 DUE DATE REQUESTED: Confirmation #
 Coating Code: _____ Q / L / D
 Misc. Charges
 SHADED AREAS ARE FOR LAB USE ONLY

(1) Relinquished by Signature: [Signature] Date: 10/13/11
 Company: C.L. Environmental
 (1) Received by Signature: [Signature] Date: 10-14-11
 Company: _____
 (2) Relinquished by Signature: _____ Date: _____
 Company: _____
 (2) Received by Signature: _____ Date: _____
 Company: _____

Login Sample Receipt Checklist

Client: CL Environmental

Job Number: 400-60147-3

Login Number: 60147

List Source: TestAmerica Pensacola

List Number: 1

Creator: Hor, Koma

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: CL Environmental

Job Number: 400-60147-3

Login Number: 60147

List Source: TestAmerica Mobile

List Number: 1

List Creation: 10/20/11 12:12 PM

Creator: Isbell, Glenn

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	