Geochemical Characterization - Eagle Gold Project

Prepared for

Victoria Gold Corp.

Prepared by

SRK Consulting (Canada) Inc.
1CS043.000
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Executive Summary

The Eagle Gold Project, a proposed heap leach gold project located near Mayo, Yukon is currently undergoing various studies to support the design and licensing for the project. Included in this program was an updated evaluation by SRK of the acid rock drainage and metal leaching potential of the waste rock, pit walls and heap leach facility. This report provides a description of the methods and results of the characterization program. The results are being utilized for evaluations and mitigation and management plans being developed by others.

The Eagle Gold deposit is located within the Tintina Gold Province, an area of more than 150,000 km^2 covering parts of Alaska and the Yukon. Within this area, 15 individual gold belts and districts have been defined, including the cold climate heap leach operations at Fort Knox and Brewery Creek. The Eagle Gold project and ore deposit has many similarities to these operations, as well as others (Goldfarb et al., 2007).

Geologically the deposit can be simplified and described as an intrusive suite, predominantly granodiorite in composition, emplaced within a metasediment package, predominantly phyllitic in nature. The granodiorite has been subdivided into three units, an oxidized unit, an altered unit and an unaltered unit. Alteration tends to be dominated by albite, potassium feldspar, sericite, carbonate and chlorite and only occurs very locally around veining. While mineralization is associated with the intrusive stock, it is not spatially limited to the intrusive. Gold-bearing veins are found in all of the main geological units including the metasediments.

Gold occurs primarily as pure gold and in association with very small amounts of metallic bismuth [Bi] and arsenopyrite [FeAsS]. Other vein minerals include pyrite/marcasite [FeS_2] > pyrrhotite [$Fe_{1-x}S$] >> sphalerite [(Zn,Fe)S], chalcopyrite[$CuFeS_2$], galena [PbS], molybdenite [MoS_2] and iron oxides/hydroxides as well as metallic bismuth, Pb-Sb-(Cu,Zn) sulphosalts (e.g. bournonite [$PbCuSbS_3$] and boulangerite [$Pb_5Sb_4S_{11}$]) and tetrahedrite [$Cu_{12}Sb_4S_{13}$].

Characterization indicated that carbonates, predominantly calcite, were generally well in excess of sulphides. Calcite content was generally 1 to 4% (from X-ray diffraction) whereas sulphur was most often less than 0.5% (from Leco S and ICP-S). Static testing showed a strong propensity towards non-acid generating conditions with the large majority of samples tested having a neutralization potential to acid potential ratio above 4. Acid rock drainage, or ARD, is therefore not anticipated for the Eagle Gold Project.

Kinetic testing based on humidity cell testing and a field barrel program indicate that, although pH conditions are expected to be neutral, some metal leaching may still occur. This may include leaching of sulphate, arsenic, cadmium, manganese, antimony, selenium and uranium, and potentially also fluoride, iron, lead, molybdenum, and zinc.

Testing of cyanide leached ore columns following detoxification indicated that until process waters are displaced from spent ore, there may also be elevated levels of nitrogen species, sodium and residual cyanide complexes (cadmium, copper, nickel, silver, zinc etc.) that would decrease with time. Concentrations of other trace elements such as arsenic, antimony and selenium are expected to diminish more gradually. Over the long term in post closure, the

geochemistry of spent ore would be expected to be similar to waste rock, i.e. with near neutral pH but somewhat minimally elevated concentrations of sulphate, arsenic, cadmium, manganese, antimony, selenium and uranium, and possibly fluoride, iron, molybdenum and zinc.

Results of the program are being used by others for water quality predictions and waste and water management planning.

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1 Introduction and Scope of Report

StrataGold Corporation (SGC), a directly held, wholly owned subsidiary of Victoria Gold Corp., has proposed to construct, operate, close and reclaim a gold mine in central Yukon. SRK has been conducting evaluations related to metal leaching and acid rock drainage (ML/ARD) since 2009 to support the Environmental Assessment and Licensing Applications. This report was prepared in support of an application for a Water Use License pursuant to the *Yukon Waters Act,* and provides methods and results of the characterization program for waste rock and spent ore associated with the project. The report is considered to be a comprehensive update to the program described in Appendix 3C of the Project Proposal (SRK 2010 in Stantec 2011) submitted to the Yukon Environmental and Socio-Economic Assessment Board (YESAB) pursuant to the *Yukon Environmental and Socio-economic Assessment Act* (YESAA). The updated results have been used by others as inputs to water quality predictions or source terms for use in evaluating potential impacts, and to develop mitigation and management plans for the project

Aspects included in this report that expand on that reported previously include:

- Expanded sample set for static testing to represent expected rock types and geochemical units in the larger pit footprint as described in the 2012 Eagle Gold Project Feasibility Study (Wardrop 2012) and Supplementary Information Report for the Eagle Gold Mine Project Proposal (Stantec 2011);
- Expanded humidity cell program for rock representing material in the larger pit footprint as described in the 2012 Eagle Gold Project Feasibility Study (Wardrop 2012) and Supplementary Information Report for the Eagle Gold Mine Project Proposal (Stantec 2011);
- Initiation of a field-based kinetic program represented by eight individual ~200 kg samples representing key rock units;
- Completion of leach extraction testing on residues from the metallurgical column and subsequent modified humidity cell test (i.e. a humidity cell leaching method conducted on the full sized metallurgical columns post detoxification and rinsing) on column residues from the 2009 program; and
- Additional kinetic testing on what was described as modified humidity cell testing (conducted in column post cyanide leaching) on three new metallurgical columns.

In addition, geochemical characterization of samples representing quarry and borrow materials was completed and reported under separate cover in support of the Quartz Mining License application (SRK 2013).

2 Background

2.1 Project Location and Overview

The Eagle Gold Project (the Project) is located in central Yukon in the Traditional Territory of the First Nation of the Nacho Nyak Dun, approximately 350 km north of Whitehorse, and 45 km (85 km by existing access roads) north-northeast of the Village of Mayo. Ecologically the Project is situated within the Yukon Plateau North Ecoregion, in the Boreal Cordillera Ecozone, which encompasses the Stewart, MacMillan and Pelly plateaus and southern part of the Selwyn Mountains. The majority of the Project site lies within the Dublin Gulch watershed. The Dublin Gulch watercourse is a tributary to Haggart Creek which flows to the South McQuesten River within the Stewart River sub-basin of the Yukon River Watershed. Elevations in the vicinity of the Project range from 765 m above sea level near the confluence of Dublin Gulch and Haggart Creek, to 1,525 m above sea level at the base of the Potato Hills, which forms the eastern boundary of the Dublin Gulch watershed.

The Project will involve open pit mining at a production rate of approximately 10 million tonnes per year (Mt/y) ore, an average strip ratio (amount of waste: amount of ore) of 1.45:1.0 and gold extraction using a three stage crushing process, heap leaching, and a carbon adsorption, desorption, and recovery system over a 10 year mine life. During operations, the open pit will be developed using standard drill and blast technology. Ore will be transported from the open pit by haul truck and delivered to the first stage crushing plant (the primary crusher), situated on the north side of the open pit rim. Waste rock will be removed from the open pit by haul truck and delivered to one of two waste rock storage areas (Platinum Gulch or Eagle Pup WRSAs) or will be used as haul road and infrastructure construction material.

Ore will be crushed to a passing 80 percent (P80) particle size of 6.4 mm in a 3-stage crushing process. All three crushing stages will be located north of the open pit. Ore will be conveyed between the primary crushing station and the secondary and tertiary crushing stations by covered conveyor or enclosed conveyor gallery. After the tertiary crushing stage, ore will be transported by covered conveyor to the heap leach facility where the ore will be stacked on the heap leach pad via a series of portable conveyors and finally a radial stacking conveyor.

Gold extraction will utilize cyanide heap leaching technology. Similar technology was employed in Yukon at the Brewery Creek mine in the late 1990s, and has been employed successfully in other cold climates such as the United States of America (Alaska), Chile, Argentina, Turkey and Russia. Process solution containing cyanide will be applied to the ore to extract gold and then collected by the leachate collection and recovery system.

Gold-bearing “pregnant” solution (pregnant leach solution [PLS]) will be pumped from the heap to the gold recovery plant. Gold will be recovered from the PLS by activated carbon adsorption and desorption, followed by electro-winning onto steel cathodes, and on-site smelting to gold doré. This process is referred to as the adsorption, desorption, and recovery (ADR) process. The gold-barren leach solution that remains after passing through the carbon columns will be re-circulated back to the heap leach facility.

The Dublin Gulch area has a rich history of exploration and mining since 1898. Dublin Gulch is a watercourse that discharges to Haggart Creek which is a major tributary to the South McQuesten River. Exploration and placer mining began on Haggart Creek in 1895. In 1896, Thomas Haggart built cabins on the then Nelson Creek and in Dublin Gulch. Nelson Creek was renamed Haggart Creek in 1898. Haggart Creek and its tributaries near Dublin Gulch were prospected and mined by multiple claim owners using relatively small operations (pick and shovel and small placer workings) until the late 1930s when larger mechanized equipment was brought to the area (Mayo Historical Society 1999). Mining in the Dublin Gulch area was suspended in the early 1940s during World War II and restarted shortly after the war's end. Mining operations on Haggart Creek from 1953 – 1958 used heavy duty equipment including draglines. It was determined that much of the area was mined out in a few years for larger-scale placer operations, and smaller scale prospecting and mining resumed for the next several decades. Dublin Gulch was placer mined from 1899 – 1978 by various placer operations using small and heavy duty equipment. Dublin Gulch was first placer mined in 1899 by John L. Suttles. In 1904, tungsten was identified in placer concentrates. Several hard rock mining claims were staked on Dublin Gulch in 1907 including the Carscallen, and the StrataGold Corporation claims. The Geological Survey of Canada (GSC) discovered in situ scheelite in Dublin Gulch in 1916, and during World War II, miners on Dublin Gulch received preferential treatment with respect to heavy equipment parts and road maintenance due to strong demand for tungsten for the manufacture of munitions. During the 1940s scheelite concentrate from Dublin Gulch was shipped to the Mines Branch in Ottawa. In 1942, a federal government grant enabled construction of the South McQuesten Road and the Bailey bridge over the South McQuesten River.

More recently, mineral exploration throughout the Dublin Gulch area has been carried out by numerous exploration companies. The "Dublin Gulch Project" was proposed by a New Millennium Mining Ltd. in the mid- to late-1990s and preceded to initial assessment and regulatory review under the Canadian Environmental Assessment Act (CEAA) as was required at the time.

In late 2010, Victoria Gold Corp. submitted the final Eagle Gold Project Proposal (Stantec 2011) to YESAB, who in turn issued their Final Screening Report in February 2013 recommending that the Government of Canada and the Yukon Government allow the project to proceed.

2.2 Geological background

The Eagle Gold deposit is located within the Tintina Gold Province (TGP), an area of more than 150,000 km^2 covering parts of Alaska and the Yukon (Figure 1). The TGP is defined by more than 15 individual gold belts and districts traditionally mined for their placer resources and more recently recognized for their lode gold potential. Technological advances in heap leach mining have allowed for economically successful recovery of gold at sub-arctic operations such as Fort Knox and Brewery Creek.

The geology of the Eagle Gold Project is provided in a number of references including that of Brown et al. (2001), Goldfarb et al. (2007) and on Victoria Gold's website. In summary, there are two primary lithological units of relevance: the granodiorite intrusive and the metasedimentary host rock. Both are summarized below.

The granodiorite at Eagle Gold is a Cretaceous-aged intrusive stock comprised of four phases; the predominant granodiorite as well as younger phases compositionally consist of quartz diorite, quartz monzonite, leucogranite and aplite dikes and sills that cut both the granodiorite and the surrounding metasediments (StrataGold Corporation 2009a).



(*Abbreviations as follows: 40 - Fortymile; 60 - Sixtymile; BO - Bonnifield; CH - Chulitna; CL - Circle; DR - Dawson Range; EG - Eagle; FB - Fairbanks; FI - Flat-Iditarod; GP - Goodpaster; HR - Hot Springs-Rampart; KD - Klondike; KT - Kantishna; LT - Livengood-Tolvana; RP - Ruby-Poorboy; RS - Richardson; TB - Tombstone; TG - Tungsten; TY - Tay River*.)

Figure 1: Main Gold Districts of the Tintina Gold Province (from Goldfarb et al. 2007)

The stock intruded the Proterozoic to Lower Cambrian-aged Hyland Group metasediments comprised of interbedded quartzites and phyllitic metasedimentary rocks. The quartzites are said to be variably gritty, micaceous and massive. The phyllitic metasediments are predominantly comprised of muscovite-sericite and chlorite with a relatively thin but definite hornfelsic contact aureole adjacent to the intrusive.

Mineralization in the area is thought to be both spatially and genetically associated with the intrusive stock and has resulted in a scheellite skarn on the southeast side of the stock (known as Mar Tungsten), and tin mineralization is seen to the north (known as Tin Dome), as well as the paragenetically later gold mineralization in the area. Gold mineralization associated with the stock occurs as quartz veins along the intrusive contacts, and as sheeted quartz veins within the granodiorite itself with the most substantial area currently defined being the Eagle Zone. The sheeted veins are discontinuous and vary in widths (typically 0.5 to 1.0 cm in width) and density (from 0 to more than 15 veins per metre) and primarily contain quartz, feldspar +/- muscovite and biotite. Gold occurs primarily as pure gold and in association with very small (less than 1%) amounts of metallic bismuth [Bi] and arsenopyrite [FeAsS]. Other vein minerals include pyrite/marcasite [FeS_2] > pyrrhotite [$Fe_{1-x}S$] >> sphalerite [(Zn,Fe)S], chalcopyrite[$CuFeS_2$], galena [PbS], molybdenite [MoS_2] and iron oxides/hydroxides. Intimately admixed with the sulphides are inclusions of metallic bismuth, Pb-Sb-(Cu,Zn) sulphosalts (e.g., bournonite [$PbCuSbS_3$] and boulangerite [$Pb_5Sb_4S_{11}$]) and tetrahedrite [$Cu_{12}Sb_4S_{13}$]. Suphide particle sizes varied from <5 micron to over 1 mm, with typical sizes on the order of 300 to 800 microns. Alteration is limited and localized to the vestiges of the veins; alteration phases include albite, potassium feldspar, sericite, carbonate and chlorite.

Oxidation products have been noted in weathered ore material. These included oxidation products of bismuth, particularly bismite [Bi_2O_3] and minor bismutite [$Bi_2(CO_3)O_2$] as well as arsenic-bearing hydrous iron oxides and/or scorodite [$Fe(AsO_4)\cdot 2H_2O$]. Oxidation of these samples could be a combination of in-situ weathering in the oxide zone of the deposit (paleo-weathering features) and oxidation that has occurred since sample collection (most samples were in storage for up to 4 years). However, the dominant oxidation process is likely that occurring prior to sampling.

2.3 Chronology of ARD/ML investigations

Acid rock drainage and metal leaching (ARD/ML) evaluations to support the Environmental Assessment process and Project Proposal were initiated by Stratagold in 2007 and reported in SRK, 2010. Previous to that, a fairly comprehensive characterization program was conducted by New Millenium Mining Ltd to support a Feasibility Study in 1995/1996 (Lawrence 1997).

3 Program Objectives and Work Program

3.1 Program Objectives

The program objectives were to provide an assessment of the geochemical behaviour of the waste rock piles, pit walls, and heap leach facility associated with the Eagle Gold project and support engineering decisions and mitigation measures as required. Specifically, for each of these site components, the program focussed on the quantification, description and assessment of:

- Acid generatiion and neutralization potential,
- Solids metal chemistry,
- Mineralogy,
- Metal leaching potential,
- Rate of sulphide mineral oxidation,
- Rate of depletion of neutralization potential,
- Relative rate of depletion of neutralization potential compared to acid potential, and
- Release rates of elements for input into water quality predictions.

3.2 Work Program

3.2.1 Overview

The work program conducted to achieve the above objectives included a review of assay data from the exploration drilling programs, static and kinetic testing on drill core, and data interpretation. There were three main phases of investigation: studies completed in 1995/96 by Lawrence (1997), the program initiated by SRK, starting in 2007 to support EA evaluations (SRK 2010), and then additional investigations starting in 2012 in response to the Feasibility Study and to support the Water Use License application.

3.2.2 Sampling

A complete list of samples available for this study is provided in Appendix A. Samples were not available for the 1995/1996 program; however samples from the 2007 program were kept in dry storage and were available for additional testing. In all programs, samples consisted predominantly of drill core from the exploration program and more recently from the geotechnical drilling program. A small subset of the samples in 1995/1996 consisted of grab samples from trench and road cuts, though spatial reference for these were not available.

Samples collected in 1995 and 1996 each represented 1.5 metres (5 foot) intervals of core. Samples for the 2007 evaluation and 2009 drilling and more recent, were more variable and selected based on drill log descriptions, ranging in core length from 0.9 to 3.4 metres (3 to 11

feet) averaging 2.9 metres (9 to 10 feet). A plan showing the spatial distribution of the drill core samples is shown in Figure 2 below. A series of cross sections with the drill core intervals selected for testing is provided in Appendix A.

3.2.3 Laboratory Procedures

Detailed descriptions of the laboratory testing procedures, including details on the duration and detection limits used in the kinetic testing program are provided in Appendix B. Table 1 provides a summary of the anticipated tonnage to be mined and the number of samples characterized by rock/material type.

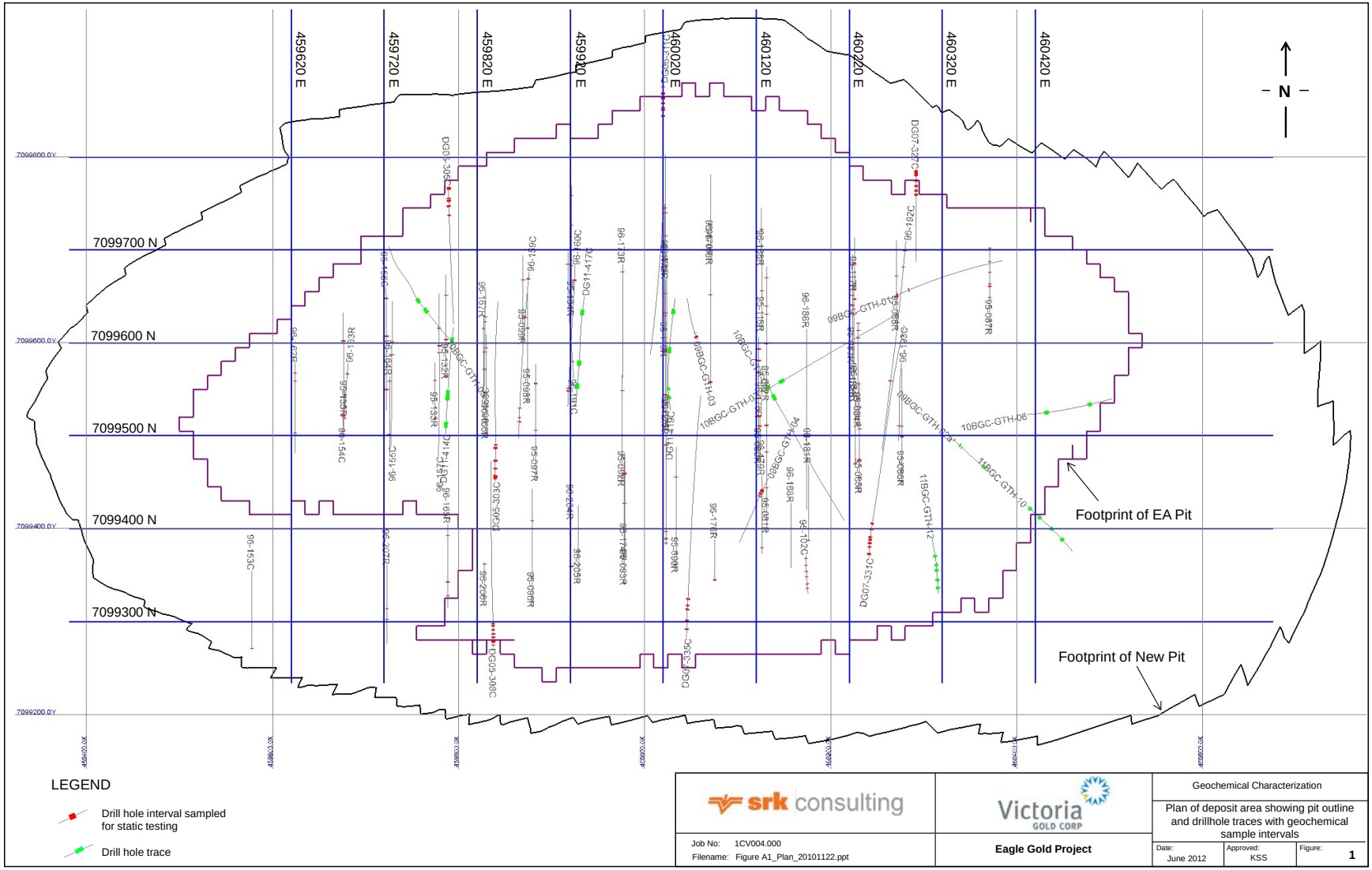
Test methods included quantitative analysis of the mineral forms using X-Ray Diffraction (XRD) analysis with Rietveld method of refinement, qualitative optical microscopy, acid-base accounting (ABA), whole rock analysis by X-Ray Fluorescence (XRF) and metal analysis by aqua-regia digestion and ICP-MS finish. In addition, the exploration drill core database has been integrated into the interpretation. Analyses represent a four-acid digestion followed by ICP-MS.

Kinetic testing on drill core was generally completed using standard humidity cell protocols (MEND 1991[1]). In the 1995/96 program (Lawrence 1997), one of the samples was tested in quadruplicate, as a duplicate standard cell as well as in two modified cells defined as a big cell (3 kg) and a tall cell (15 kg), whereby the tall cell was further modified by applying variable infiltration rates. At the time this work was completed, metal analyses were more commonly completed using ICP-OES, therefore method detection limits for the earlier tests were generally higher than for the current program which used ICP-MS methods.

The tests on the metallurgical composite ore conducted in the 2010 and 2012 programs included standard humidity cell tests on the head samples (prior to cyanidation), and large column tests on the spent ore from 80 kg metallurgical column tests conducted at Kappes Cassidy & Associates (KCA) (as documented in Appendix C). Following cyanidation and detoxification, three of the metallurgical columns were converted to large scale modified humidity columns. The protocol for the modification is provided in Appendix D.

With the exception of the metallurgical column tests, the laboratory testing programs were completed at SGS-CEMI in Vancouver. The Reitveld XRD was completed at the University of British Columbia, and the optical mineralogy was done by Kathryn Dunne, P.Geo.

[1] This consists of samples sized at minus 1/4 inch crushed (~6 mm). Cells were charged with 1 kg (dry weight) of material and initially flushed with 750 mL of deionized water, with the leachate re-circulated to the top of the cell for a period of 24 hours to maximize flushing of any stored oxidation products in the samples prior to testing. Subsequent cycles followed the operating procedure consisting of circulation of dry air for three days, circulation of humidified air for three days and then flushing with 500 mL of deionized water on the seventh day.



Source: \\VAN-SVR0\Projects\01_SITES\Dublin Gulch\1CV004.000_Eagle_Gold_Ongoing_Geochemical_Support\D_Reporting\3_WUL_Report\Source Files\Eagle_ABA_Plan_Jun2012_REV02.pptx

Figure 2: Plan of deposit area showing locations of samples collected for ML/ARD characterization.

Table 1: Summary of Testing Program by Material Type

Sample Type	Estimated Tonnage (Million Tonnes)		Number of Samples
	Waste	Ore	
Metasediment	64	7	96
Oxidized Granodiorite	21	32	88
Unaltered Granodiorite	23	42	39
Altered Granodiorite	5.0	11	56
Quarry and Borrow Materials			40
Road Alignment			32

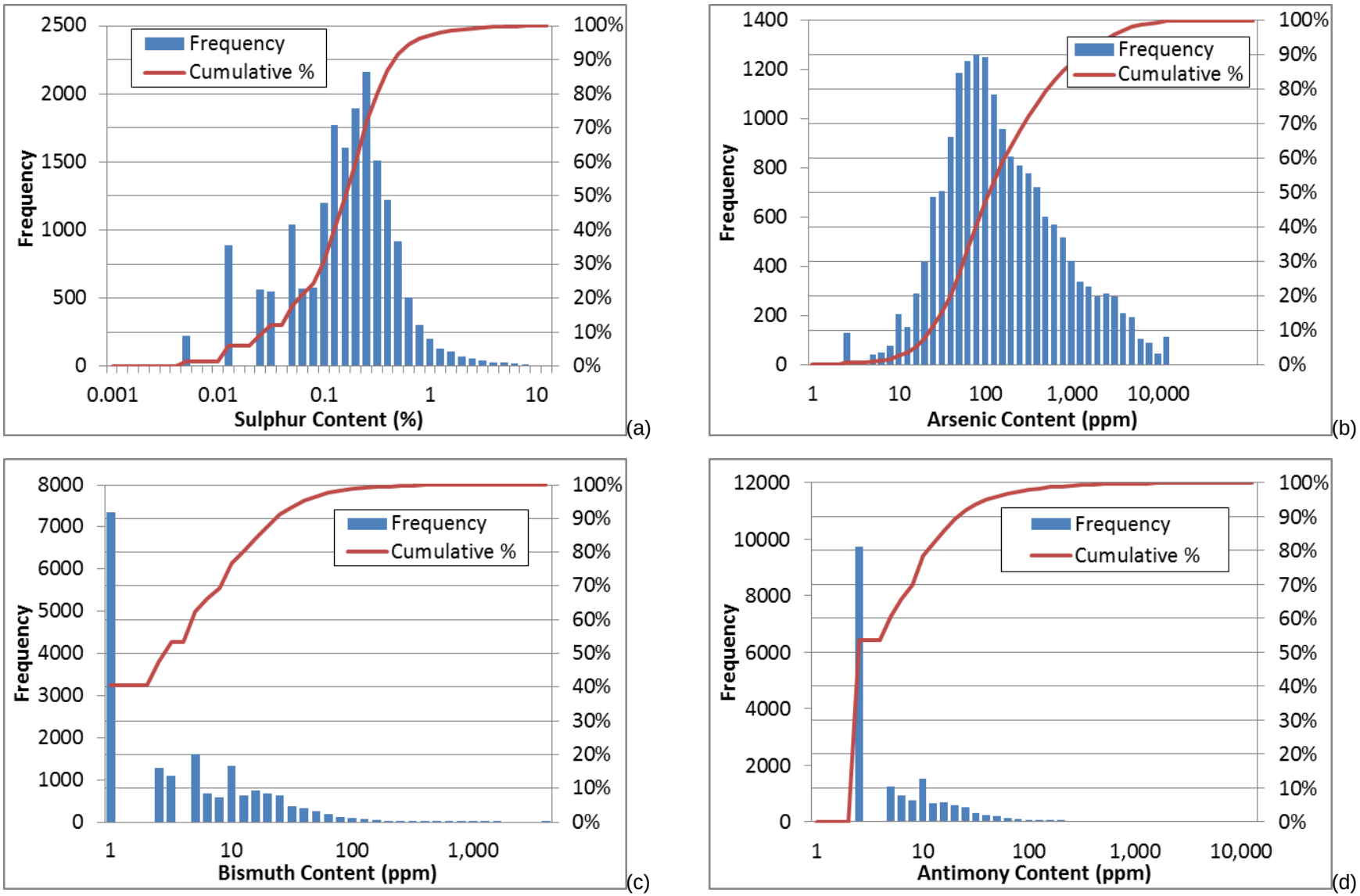
4 Program Results

Results of the analytical program have been interpreted on the basis of four primary rock units: the metasediments, the oxidized granodiorite, the unaltered granodiorite and the altered granodiorite.

4.1 Drill Core Assay Database

The drill core assay database for the Eagle Gold Project includes data from 1991 through to 2011, though only core collected from 1996 onwards includes a full ICP suite with sulphur values. There are over 18,000 analyses of sulphur, with values ranging from 0.005% to 11%, with a median of 0.16% (mean of 0.25%). Nearly 90% of all samples assayed reported a sulphur value of <0.5%. In general this reflects the low sulphur content for the deposit. Other parameters that are considered elevated, as compared to 10 times the average crustal abundance[2] include arsenic, antimony and bismuth with median values of 110 ppm, 2.5 ppm and 3 ppm respectively and corresponding mean values of 543 ppm, 7.5 ppm and 11 ppm respectively. Histograms of these four parameters of interest are provided in Figure 3 below.

[2] The average crustal abundance for arsenic = 1.8 ppm, antimony = 0.2 ppm and bismuth = 0.0082 ppm.



Source: \\VAN-SVR0\Projects\01_SITES\Dublin Gulch\1CV004.000_Eagle_Gold_Ongoing_Geochemical_Support\D_Reporting\3_WUL_Report\Source Files\Copy of allAssaysEagle_proposed sample selection_rev00AML.xlsxC:\...\WUL Report\Copy of allAssaysEagle_proposed sample selection_rev00AML.xlsx

Figure 3: Histograms from drill core assay data for: a) sulphur, b) arsenic, c) bismuth and d) antimony.

4.2 Static Test Program

The following sub-sections provide the results from the static testing programs. Laboratory results for static testwork overseen by SRK are provided in Appendices E through G; data from the 1996 program is provided in Lawrence 1997.

4.2.1 Mineralogy

Mineralogical analyses were performed on samples representing granodiorite and metasediments in varying degrees of oxidation and alteration as well as a composite ore samples. The purpose of these analyses was to identify the primary mineral phases with emphasis on the key sulphide and carbonate phases as well as trace minerals. The detailed quantitative phase XRD is provided in Appendix E and summarized in Table 2. Petrographic reports are provided in Appendix F with key observations discussed below.

The granodiorite samples examined, almost regardless of degree of oxidation or alteration, are dominantly comprised of quartz, biotite/muscovite/clinochlore, potassium feldspar and plagioclase. Oxidation-derived minerals including kaolinite and iron oxides/oxyhydroxides were most prevalent in the samples from the oxide zone of the deposit. Altered granodiorite contained higher muscovite and lower feldspar content than the unaltered or oxidized counterparts. All types of granodiorite contain variable amounts of calcite and sulphides consisting of pyrrhotite, pyrite, arsenopyrite, marcasite chalcopyrite, molybdenite and/or sphalerite.

The main minerals present in the metasediment samples include quartz, muscovite/ biotite/ clinochlore, potassium feldspar and plagioclase. Minor minerals measured by QXRD and noted in petrographic analysis include actinolite, calcite, dolomite, andalusite and diopside, particularly in those samples classified as hornfelsed. Sulphides noted in thin section include pyrrhotite (~1%) and trace amounts of arsenopyrite, chalcopyrite, marcasite and pyrite. Also observed was a red-orange-brown iron oxide/oxy-hydroxide phase.

Textures and occurrences of carbonates and sulphides were emphasized in the petrographic analysis. Based on those observations, carbonate is noted to occur as very fine-grained anhedral grains and patchy aggregates replacing feldspar or biotite. Carbonate is also present as fine-grained veinlets and infill to rock/vein fragments and as fine-grained liberated fragments. Sulphides include predominantly pyrrhotite and pyrite with traces of chalcopyrite, arsenopyrite, marcasite, molybdenite and sphalerite. Pyrrhotite oxidation is variable. It occurs as unaltered and locally rimmed and partly replaced by Fe-oxide/oxyhydroxide aggregates or in some instances has weathered to marcasite pseudomorphs. Pyrite is typically fine to very fine grained both as aggregates within rock chips and as liberated grains. When in aggregates, very fine grained marcasite is often present. Pyrite grains are locally pitted though alteration rims are typically not evident. Arsenopyrite is fine-grained and exists as liberated anhedral grains and aggregates without alteration. In nearly all samples evaluated by petrography, carbonates were in excess of sulphides.

Table 2: Results of Quantitative Phase X-Ray Diffractometry Analysis (%).

Mineral	KCA 42479	"48158"	DG07-327 24.69-33.83	DG12-BRL-04	DG07-331C 99.97-109.12	DG12-BRL-07	DG12-BRL-05	DG07-305C 169.03-178.31	DG06-311C 130.45-140.45	DG07-335C 103.02-113.69	DG12-BRL-06	DG07-303C 175.26-185.93	DG05-308C 125.00-128.00	M404101 to 09	DG12-BRL-01	DG12-BRL-03	DG12-BRL-02	DG07-305C 1.52-9.14	DG07-331C 52.92-62.3	DG05-308C 12.19-18.00	11BGC-GTH10 Int 146.1-156.67	DG12-BRL-08
	Composite Ore	Composite Ore	Oxidized Granodiorite	Oxidized Granodiorite	Oxidized and Fresh Granodiorite	Oxidized and Fresh Granodiorite	Fresh Granodiorite	Fresh Granodiorite	Fresh Granodiorite	Granodiorite	Altered Granodiorite	Altered Granodiorite	Altered Granodiorite	Altered Granodiorite	Oxidized Metasediment	Oxidized and Fresh Metasediment	Fresh Metasediment	Metasediment	Metasediment	Metasediment	Hornfels Metasediment	Overburden
Quartz	33.2	35	34.6	34.8	30	42.6	34.8	32.6	35.7	27.2	34.8	38.6	41.3	33.1	68.3	45.7	41.3	19	46.4	32.4	50.7	51
Muscovite	4.6	6.7	5.9		3			4.5				9.2	24					15.9	14.3	16.5	13.3	
Biotite	6.3	5.1	2.5	5.5	6.7	4.5	6.3	5.8	5.6	11.4	4.3			2.3	3.8	5	9.6	14.3	8.4	11.1	10.6	4.2
Clinochlore	3.9	3.5		3.9	4.5	3.1	3.1	4.3	3	5.2	2.7	3.3	4.4	2.4	1.1	2.2	1.9	3.1	3	3.2	3.5	2.2
Actinolite										5.1								3				
K-feldspar	23.8	23.3	28.6	24.9	28.2	17.3	23	23.6	26	15.4	22.3	21.4	16.2	23.1	7	17.7	10.8	9.8	11.5	19	4	12.8
Plagioclase	24.6	21.4	19.6	26.3	23.9	15.9	25.3	27.1	28	34.5	20.6	22.9	13.3	13.9	9.4	15	14.4	23.7	13.7	13.9	8.9	13.3
Calcite	3.5	3.1	3.3	0.9	3.2	1.7	1.8	2	1.7	1.2	1.8	2.2	0.7	2.6	0.6	0.7	0.7	1.5	0.7	0.5	0.4	0.5
Dolomite/ Ankerite		0.7										2.1		5.1				1			0.6	
Kaolinite		1.2	5.6			0.7	1.1				0.8				2.1	2.9	2.6					1.7
Siderite					0.5																	
Andalusite																	2.4	1.6	1.9	3.5	1.8	0.9
Diopside																		7.1				
Pyrite	0.2										0.3	0.4		0.5							0.5	
Ilmenite																					1.5	
Pyrrhotite																					1	
Cordierite				0.6		0.7															3.2	
Muscovite 2M1				2.6		9	4.2				6.7			10.6	5.5	10.3	16.2					11.4
Muscovite 1M						3.7					3.8			6.4	1.9							2
Zircon ?															0.2							
Total	100.1	100	100.1	100	100	100	100	99.9	100	100	100	100.1	99.9	100	100	100	100	100	99.9	100.1	100	100

Quartz: SiO_2
Muscovite: $KAl_2AlSi_3O_{10}(OH)_2$
Biotite: $K(Mg,Fe)_3(AlSi_3O_{10})\ (OH)_2$
Clinochlore: $(Mg,Fe^{2+})_5Al(Si_3Al)\ O_{10}(OH)_8$
Actinolite : $Ca_2(Mg,Fe^{2+})_5Si_8O_{22}\ (OH)_2$

Dolomite/ Ankerite: $Ca(Fe^{2}+Mg,Mn)(CO_3)_2$
K-feldspar: $KAlSi_3O_8$
Plagioclase: $NaAlSi_3O_8 – CaAl_2Si_2O_8$
Calcite: $CaCO_3$
Diopside: $CaMgSi_2O_6$

Kaolinite: $Al_2Si_2O_5(OH)_4$
Siderite: $Fe^{2+}CO_3$
Andalusite: Al_2SiO_5
Pyrite: FeS_2
Ilmenite: $FeTiO_3$

Pyrrhotite: $Fe_{(1-x)}S$
Cordierite: $Mg_2Al_4Si_5O_{18}$
Zircon: $ZrSiO_4$

Source: \\VAN-SVR0\Projects\01_SITES\Dublin Gulch\1CV004.000_Eagle_Gold_Ongoing_Geochemical_Support\D_Reporting\3_WUL_Report\Source Files\EagleGold Mineralogy_update_AML.xlsx

4.2.2 Whole Rock and Metals Analyses

Whole rock analyses were included in the work conducted in the late 1990's. The results are summarized in Table 3 by rock type. Results indicate that rocks are dominated by silica (65% to 70%) and aluminum (13% to 14%) with minor constituents (>10%) being calcium, iron, potassium, magnesium and sodium. Low to negligible quantities (>1%) of chromium, phosphorus, manganese and titanium were also detected. The results reflect the predominant mineralogy of quartz, feldspars and micas.

Table 3: Statistical Summary of Whole Rock Analyses (by XRF and after Lawrence, 1997).

		Metasediments (n=62)			Granodiorite (n=229)		
		Mean	Minimum	Maximum	Mean	Minimum	Maximum
Al_2O_3	%	14	5	26	14	5	25
CaO	%	1.14	0.11	4.82	2.6	0.11	5.0
Cr_2O_3	%	0.02	0.01	0.08	0.01	0.005	0.06
Fe_2O_3	%	4.3	1.3	7.7	3.7	1.3	7.5
K_2O	%	3.9	1.3	6.2	4.7	1.3	6.2
MgO	%	1.24	0.20	3.21	1.3	0.20	3.4
MnO	%	0.04	0.01	0.10	0.04	0.005	0.24
Na_2O	%	1.1	0.0	2.3	1.7	0.005	2.5
P_2O_5	%	0.08	0.01	0.22	0.12	0.01	0.22
SiO_2	%	70	50	89	68	53	89
TiO_2	%	0.59	0.21	1.06	0.51	0.20	0.94

Source: \\VAN-SVR0\Projects\01_SITES\Dublin Gulch\1CV004.000_Eagle_Gold_Ongoing_Geochemical_Support\D_Reporting\3_WUL_Report\Source Files\Compiled Static Testwork_Eagle Gold_20120911_updated_rev02_20130606_scs.xlsx

Metals by ICP-MS following an aqua-regia digestion were also conducted through various testing phases. A summary is provided in Table 4 and selected parameters are provided in Figures 4 and 5 (see also Appendix G). Elemental results when present in excess of 10 times the average crustal abundances as provided in Price (1997) are generally considered elevated. For Eagle Gold, these parameters include arsenic, antimony, bismuth and gold, and in some materials boron (only in granodiorites) and tungsten. Other elements that are inconsistently elevated include cadmium, manganese, molybdenum, sulphur and zinc. For the key parameters of interest, the results for the static sample suite are generally similar to the distribution as described by the drillcore assay database. In general, the mean values are similar between the various litho-alteration units or material types; however the maximum values are often higher in the granodiorite, particularly where alteration is noted (see for example antimony).

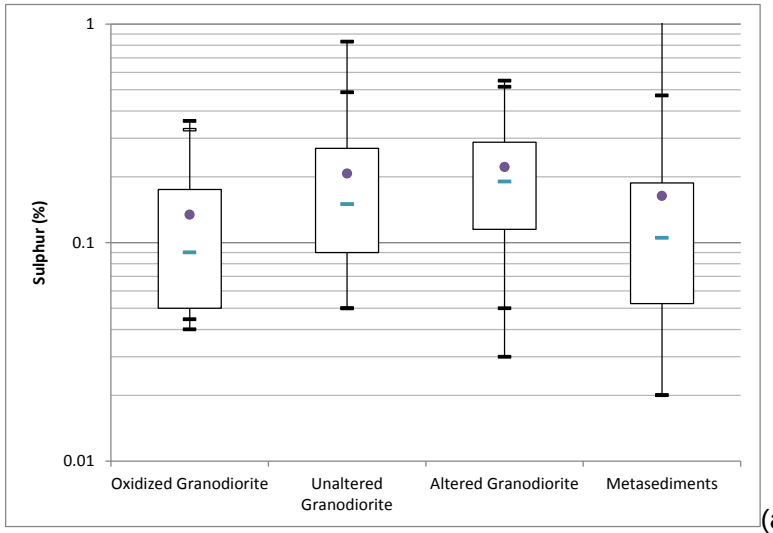
An evaluation of the gold content with various parameters indicates that there is a correlation between gold and parameters such as arsenic, bismuth, copper, molybdenum, selenium and sulphur, though with significant overlap such that waste grade rock can also contain relatively high levels of these parameters. There is also some correlation seen in the data between sulphur content and parameters such as arsenic, antimony, selenium etc. though with significant scatter.

Table 4: Statistical Summary of Selected Metals Analysis by ICP-MS Following Aqua Regia Digestion.

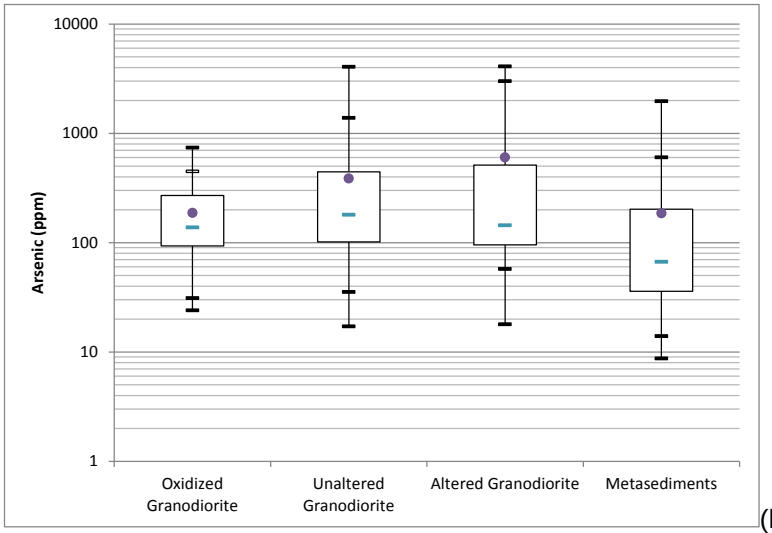
	Metasediments (n=120)			Oxidized Granodiorite (n=51)			Unaltered Granodiorite (n=92)			Altered Granodiorite (n=56)		
	Mean	Minimum	Maximum	Mean	Minimum	Maximum	Mean	Minimum	Maximum	Mean	Minimum	Maximum
Ag (ppb)	0.12	0.01	1.10	18	0.09	1316	46	0.10	1318	67	0.01	4490
As(ppm)	187	24	740	386	17	4060	602	18	4100	185	9	1963
Au (ppb)	60	4.6	214	39	0.04	841	218	18	1354	85	0.02	2400
Bi (ppm)	19	0.10	180	15	0.30	112	17	0.30	100	4.1	0.05	56
Cd (ppm)	0.32	0.02	4.0	0.33	0.02	4.0	1.4	0.03	27	0.49	0.01	20
Cu (ppm)	30	8.0	115	35	6.0	98	43	11	167	33	6.0	167
Fe (%)	2.4	1.7	3.9	2.4	1.3	4.0	2.3	1.3	3.7	2.8	0.88	4.9
Hg (ppb)	0.46	0.01	1.0	0.47	0.01	2.00	1.4	0.01	39	0.35	0.01	9.0
Mn (ppm)	218	105	580	222	60	440	279	79	1535	264	55	1148
Mo (ppm)	3.8	0.50	9.0	4.0	0.50	32	5.4	1.2	15	2.5	0.37	13
Ni (ppm)	21	13	32	19	7.0	28	22	11	37	29	4.0	80
Pb (ppm)	8.8	2.0	48	26	1.0	360	65	0.50	518	15	0.50	257
S (%)	0.13	0.04	0.36	0.21	0.05	0.83	0.22	0.03	0.55	0.16	0.02	1.2
Sb (ppm)	2.8	0.20	22	4.8	0.50	102	14	0.20	114	5.4	0.18	111
Se (ppm)	0.75	0.30	1.6	0.89	0.10	2.0	1.3	0.20	3.2	0.48	0.10	3.1
Tl (ppm)	0.48	0.20	0.60	3.1	0.11	5.0	0.59	0.10	10	1.4	0.12	5.0
U (ppm)	1.3	0.50	5.9	3.9	0.50	7.1	2.3	0.50	9.9	2.0	0.40	5.8
W (ppm)	9.1	0.10	70	12	0.20	140	9.5	0.30	94	20	0.10	1080
Zn (ppm)	57	12	392	66	10	764	267	14	4920	98	4.0	2999

Note: Complete results are provided in Appendix G.

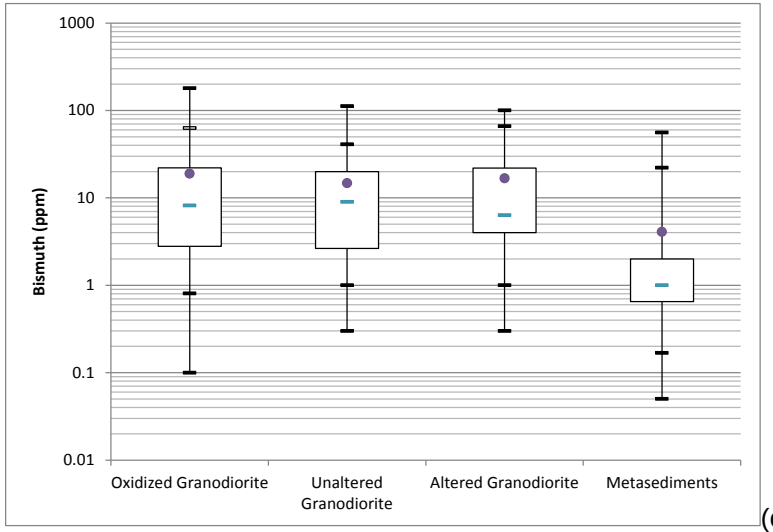
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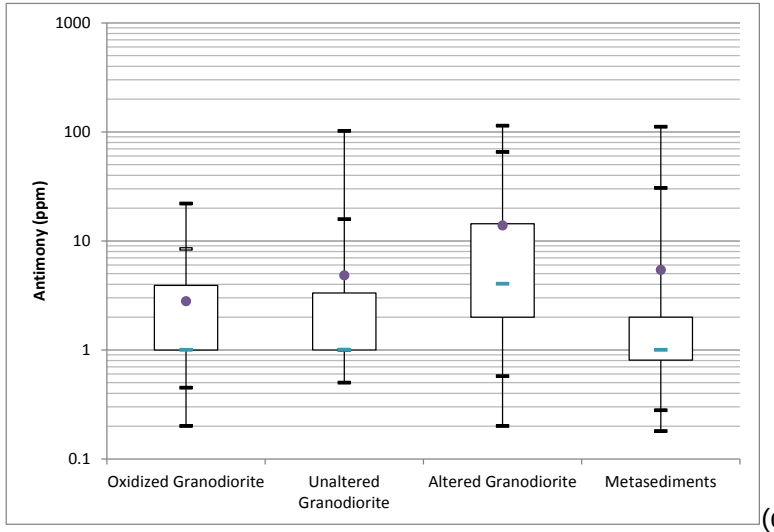
(a)



(b)



(c)

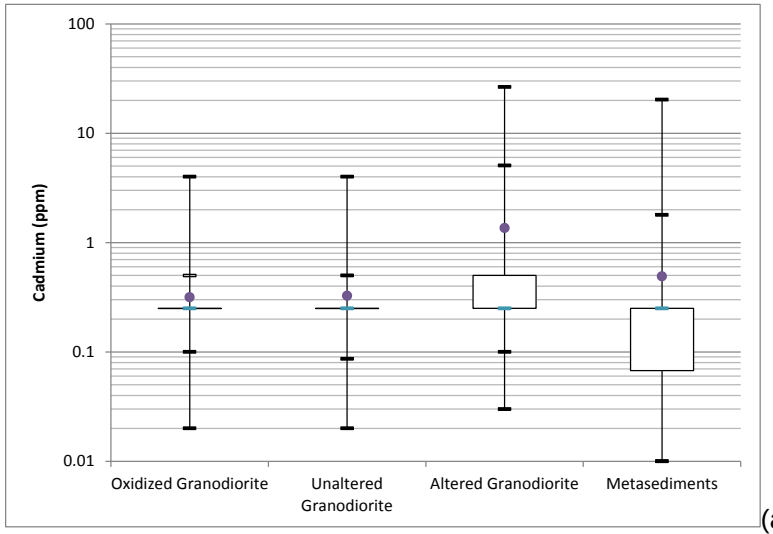


(d)

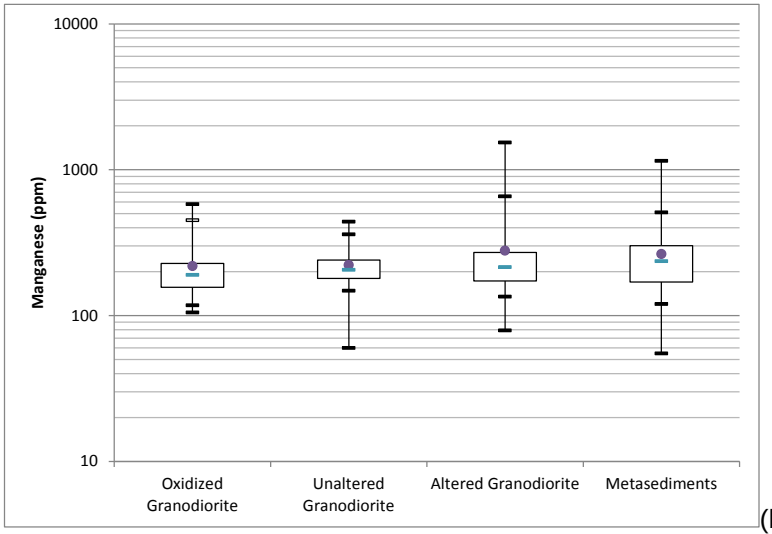
(This plot is a conventional box and whisker graph, with the upper and lower extremes showing the minimum and maximum values, tick marks outside the box showing the 10th and 90th percentiles, outer margins of the box showing the 25th and 75th percentiles, central dash in the box showing the median value, and dot showing the arithmetic mean).

Source: \\VAN-SVR0\Projects\01_SITES\Dublin Gulch\1CV004.000_Eagle_Gold_Ongoing_Geochemical_Support\D_Reporting\3_WUL_Report\Source Files\Compiled Static Testwork_Eagle Gold_20120911_updated_rev02_20130606_scs.xlsx

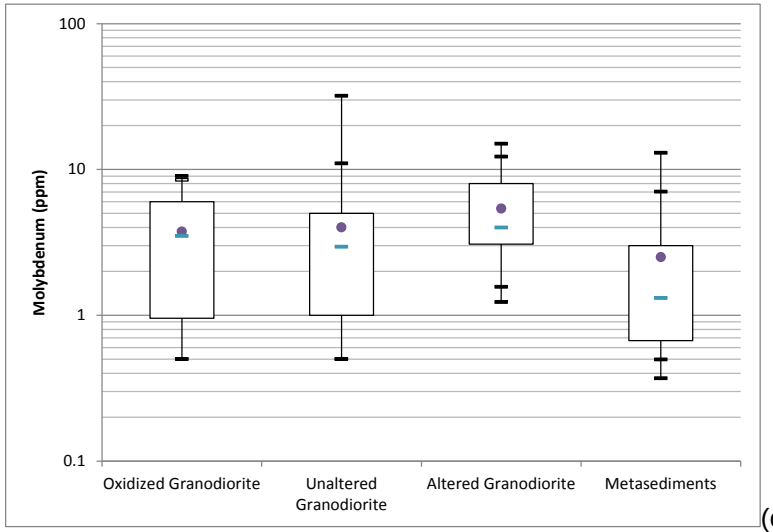
Figure 4: Mean, minimum and maximum values of selected metals by ICP-MS for a) sulphur, b) arsenic, c) bismuth and d) antimony.



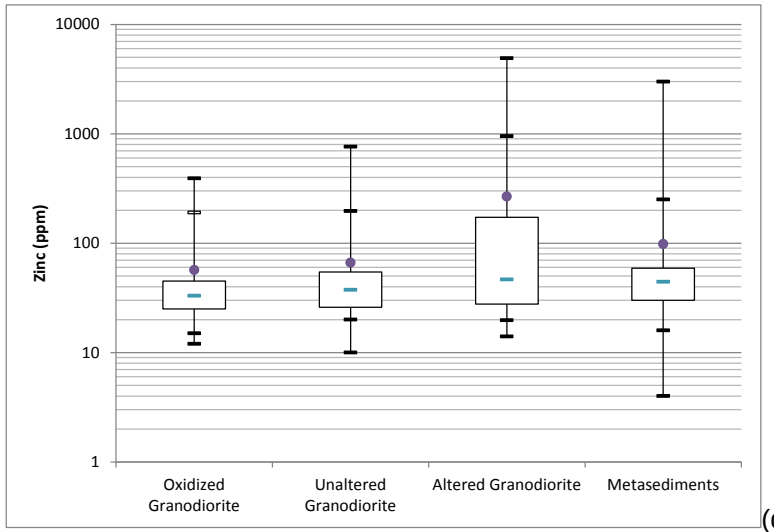
(a)



(b)



(c)



(d)

(This plot is a conventional box and whisker graph, with the upper and lower extremes showing the minimum and maximum values, tick marks outside the box showing the 10th and 90th percentiles, outer margins of the box showing the 25th and 75th percentiles, central dash in the box showing the median value, and dot showing the arithmetic mean).

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Figure 5: Mean, minimum and maximum values of selected metals by ICP-MS for a) cadmium, b) manganese, c) molybdenum and d) zinc.

4.2.3 Acid Base Accounting (ABA)

The ABA testing included analyses of paste pH, total inorganic carbon (TIC), total sulphate and sulphide sulphur, neutralization potential (NP) by the modified Sobek method and calculations of the acid potential (AP), net neutralizing potential (Net NP) as well as the NP/AP ratio. The ABA results are provided in Appendix G and are summarized by material type in Table 5. Results are also shown graphically in the series of plots provided as Figures 6 to 8.

The data shows good agreement between total sulphur and sulphide sulphur, with most of the samples reporting values less than 0.5% (Figure 6). Neutralization potential is dominated by that provided by carbonate minerals and ranges from negligible to values of approximately 80 kg $CaCO_3$/t equivalent, though most are below 50 kg $CaCO_3$/t. Ratios of neutralization potential (NP) to acid potential (AP) ranged from less than detection to values well over 100. The mean NP/AP ratio for fresh granodiorite is 5.8, for the altered granodiorite is 4.9, for the oxidized granodiorite is 15 and for the metasediments is 4.1. The vast majority of samples classify as non-acid generating and only 7.5% of the sample set have NP/AP values less than 2 and therefore may classify as having a possible potential for ARD using the guidelines of Price (1997)[3]. Graphical representations of the results are shown in Figures 6 to 8. The results for the different material types do not tend to cluster, except perhaps with metasediments showing slightly lower NP than the granodiorite samples..

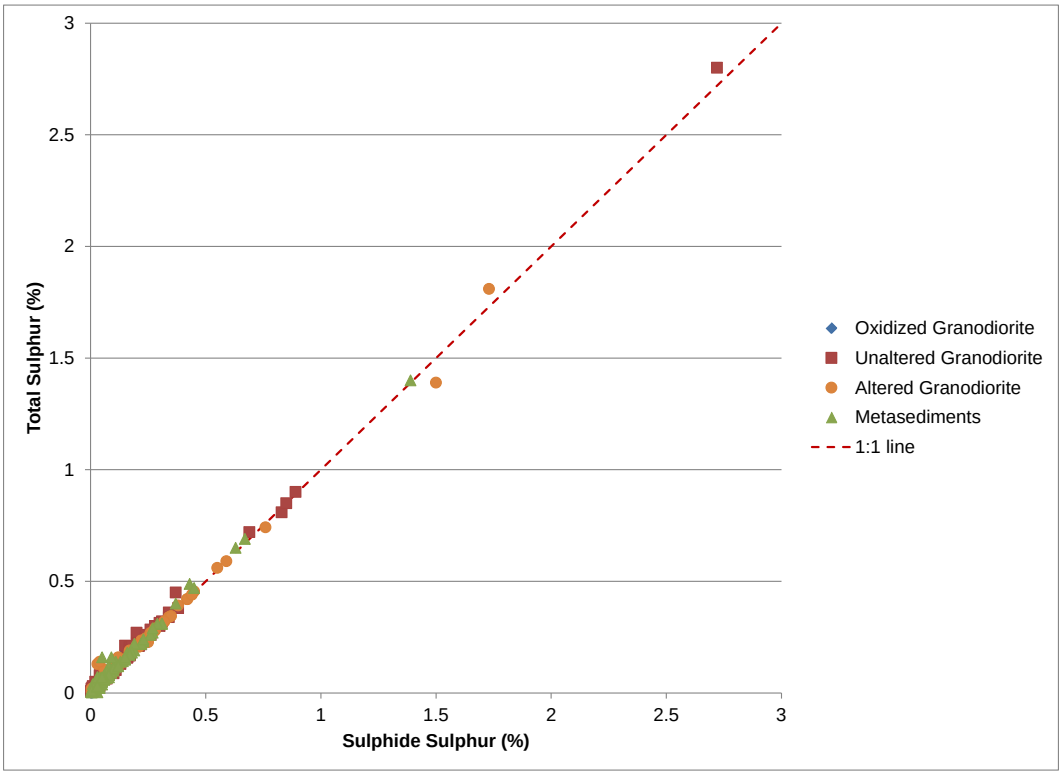
There is minimal correlation between total sulphur content and ARD potential, though samples with a sulphide sulphur content of greater than 0.5% had NP/AP ratios less than 4 and therefore classify as having a potential for acid generating. Below that sulphide grade (0.5%), the classification was generally non-acid generating, except if NP values were very low (Figure 7).

[3] ARD classification criteria recommended by BC Ministry of Energy and Mines (Price, 1997) have been used for this evaluation whereby samples with NP/AP is <1 are considered to have a likely a potential for ARD, samples with NP/AP ratio between 1 and 2 are considered to have a possible potential ARD, samples with ratios between 2 and 4 are considered to have a low potential for acid generation and samples with ratios>4 are considered to be non-acid generating.

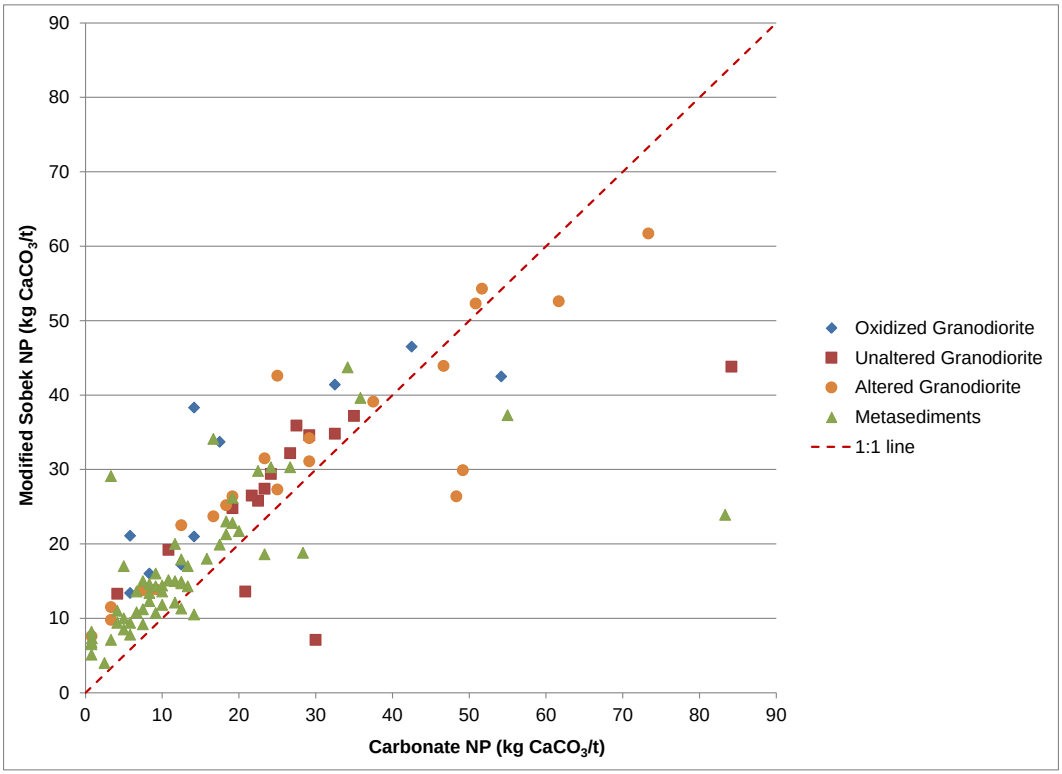
Table 5: Statistical Summary of ABA Results by Material Type.

Parameter		Metasediment (n=120)			Oxidized Granodiorite (n=50)			Unaltered Granodiorite (n=92)			Altered Granodiorite (n=56)		
		Mean	Minimum	Maximum	Mean	Minimum	Maximum	Mean	Minimum	Maximum	Mean	Minimum	Maximum
Paste pH		8.2	6.6	9.1	8.4	7.7	9.0	8.4	7.6	9.3	8.4	7.2	9.3
TIC	%	0.16	0.01	1.00	0.25	0.07	0.65	0.33	0.01	4.66	0.35	0.01	0.88
$CaCO_3$ NP	kg $CaCO_3$/t	15	0.83	83	21	5.8	54	27	0.83	388	29	0.80	73
S(T)	%	0.11	0.002	1.4	0.05	0.002	0.31	0.20	0.00	1.4	0.26	0.01	1.8
$S(SO_4)$	%	0.01	0.01	0.11	0.01	0.01	0.02	0.01	0.01	0.43	0.01	0.01	0.10
$S(S^{-2})$	%	0.10	0.01	1.4	0.05	0.01	0.29	0.19	0.01	1.4	0.26	0.01	1.7
AP	kg $CaCO_3$/t	3.4	0.06	43	1.6	0.06	9.1	6.3	0.06	43	8.2	0.19	54
NP	kg $CaCO_3$/t	14	1.0	44	24	4.0	76	36	-1.9	372	39	3.0	92
Net NP	kg $CaCO_3$/t	10	-20	38	22	3.0	74	30	-20	366	31	-11	81
NP_{ave}/AP_{ave}		4.1			15			5.8			4.9		

Source: \\VAN-SVR0\Projects\01_SITES\Dublin Gulch\1CV004.000_Eagle_Gold_Ongoing_Geochemical_Support\D_Reporting\3_WUL_Report\Source Files\Compiled Static Testwork_Eagle Gold_20120911_updated_rev02_20130606_scs.xlsx



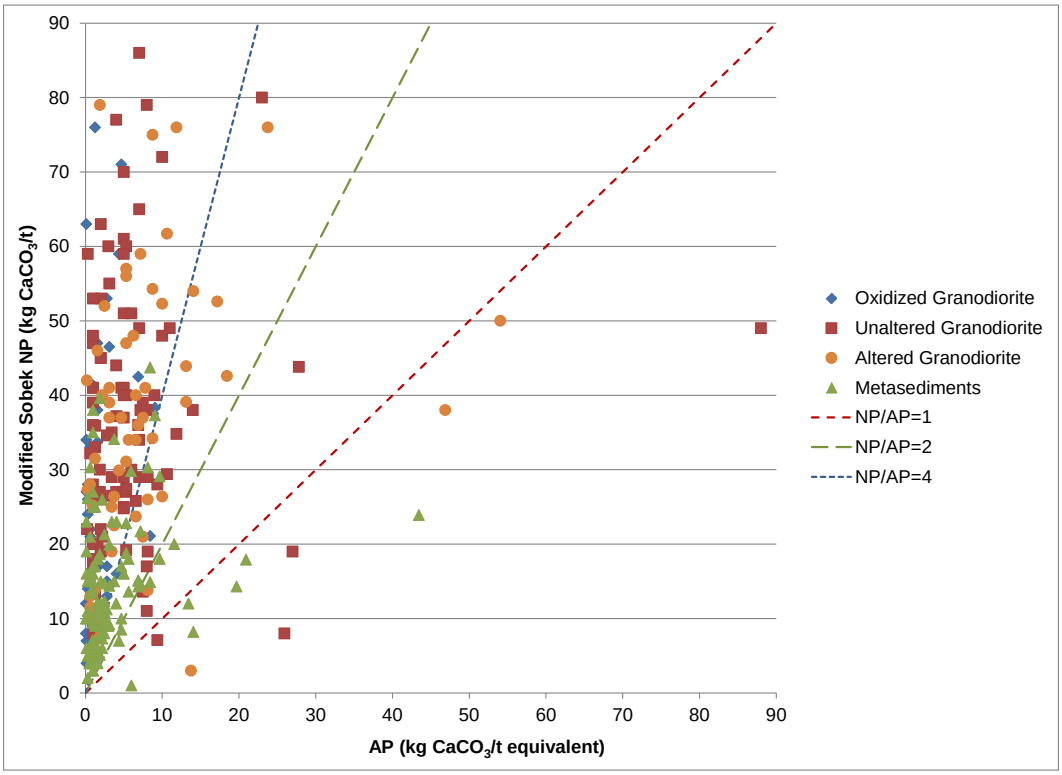
(a)



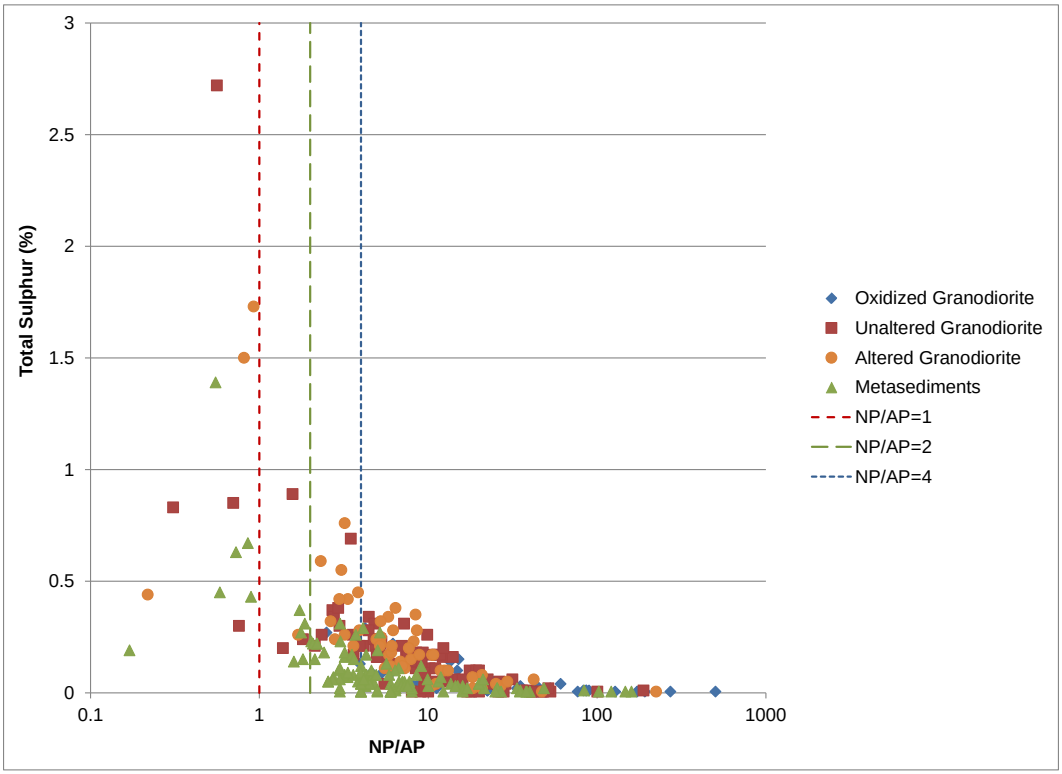
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Figure 6: Acid base accounting results: (a.) sulphide sulphur versus total sulphur, and (b.) carbonate neutralization potential versus modified Sobek neutralization potential.



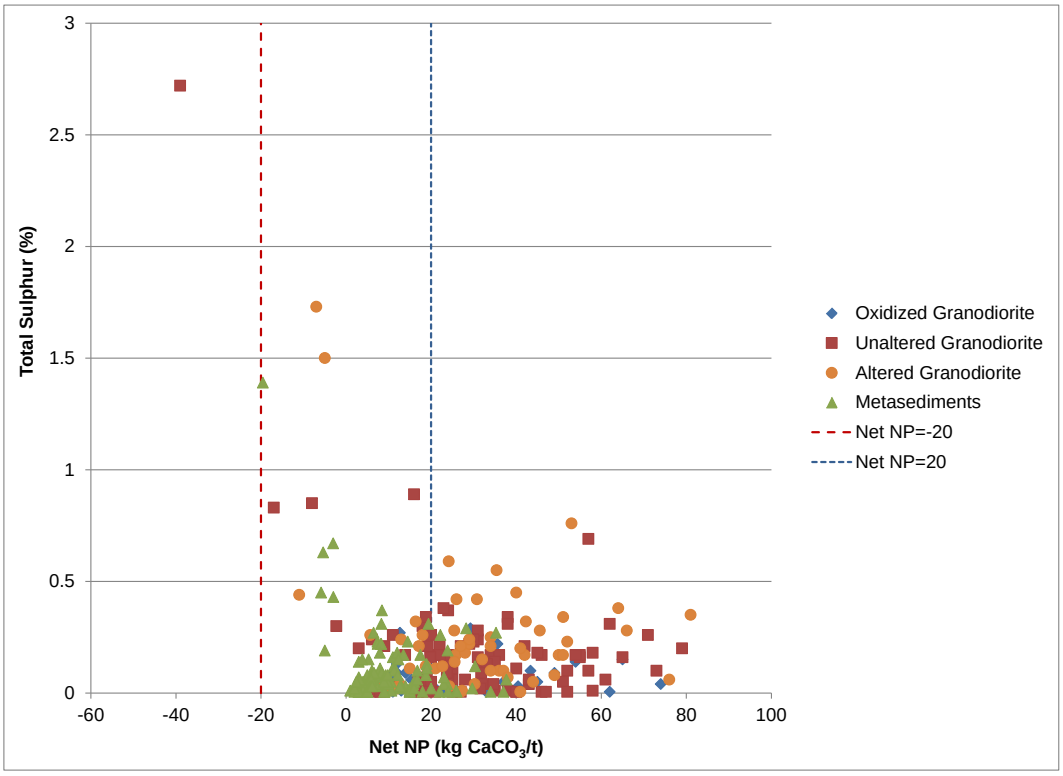
(a)



(b)

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Figure 7: Acid base accounting results: (a) acid potential versus modified Sobek neutralization potential and (b) NP/AP ratio versus total sulphur.



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Figure 8: Acid base accounting results: net neutralization potential versus total sulphur.

4.3 Humidity Cell and Field Barrel Program

Kinetic testing provides information pertaining to sulphide oxidation rates, buffering reactions, metal concentrations and metal release rates. The kinetic program consists of a laboratory-based program and a field-based program.

Complete results for the kinetic testwork are provided in Appendix H and described in the following sub-sections.

4.3.1 Sample Selection Rationale

Humidity Cell Program

There were three stages of laboratory based humidity cell testing undertaken for the project: one completed by others in 1996, and two completed by SRK in 2009/2010 and 2012 to augment the current proposed project.

The precise sample selection rationale for the work conducted in 1996 was not fully documented in Lawrence (1996), other than noting that samples were composites representative of the major material types. Comparison of the composition of those samples with the compiled static dataset

indicates that they are within the upper range of sulphur values and the lower range of NP values, with the exception of the altered granodiorite which has a higher NP.

Samples for the 2009/2010 humidity cell testing program were selected from individual intervals rather than composites, and represent each of the main rock types. These intervals were selected to closely represent target sulphur contents in both the upper end of the range (~95th percentile) and median values (50th percentile).

Results from 1996 and the 2009/2010 program were provided in the Project Proposal submission to YESAA. Since then, an additional three humidity cells were initiated in 2012 to augment the program. These represent an ore composite split provided by KCA, and a metasediment and granodiorite sample sourced from material between the smaller 66 MT pit shell as presented in the Pre-Feasibility Study (Scott Wilson 2010) and the larger current 92MT pit shell as presented by the Feasibility Study (Wardrop 2012).

Field Barrel Program

In 2012, a field barrel program was initiated. The sample set loaded into each field barrel represented the main lithological units and degrees of alteration/oxidation as follows:

- Oxidized metasediment;
- Fresh metasediment;
- Mixed: oxidized and fresh metasediment;
- Oxidized granodiorite;
- Fresh granodiorite;
- Altered granodiorite;
- Mixed oxidized/fresh granodiorite; and
- Overburden (mixed oxidized metasediments and oxidized granodiorite).

Samples were generally sourced from one consistent drill core interval where possible (quartered core), or from a composite of two or three intervals in order to maintain the sample lithology and degree of alteration. Sulphide content was generally representative of median values. Attempts to get samples of higher sulphide content were unsuccessful, but understandably so, as sulphide distribution is primarily as thin veinlets and not extensive across larger intervals (>100 m lengths) used to source the barrel samples (~200 kg).

4.3.2 Kinetic Sample Characteristics

The ABA results and selected metal values for the kinetic sample set are shown in Table 6. Metal contents for the parameters of interest generally bracket the mean values as determined in the larger static sample set. For example, the static testing on metasediment drillcore samples has a mean arsenic content of 187 ppm, and a range from 24 to 740 ppm (Table 4); the humidity

cell samples representing metasediments have arsenic contents ranging from 34 to 1614 ppm; and the field barrels consisting of metasediments range from 155 to 203 ppm.

Conditional formatting has been applied to Table 6 to highlight the relative amounts of some key parameters. While there is variability sample to sample, the formatting is a useful tool to quickly see which samples have elevated metals relative to the others. In general, this tends to occur in samples with higher Au content and more often within the altered granodiorite unit.

A plot of acid potential (AP) versus neutralization potential (NP) is shown in Figure 9, similar to that in Figure 7 above, but plotted on a logarithmic scale and with results from the kinetic sample suite highlighted. The distribution of samples in the humidity cell sample suite is very similar to that from the larger static suite. Samples selected for kinetic testing have NP/AP values between 0.73 and 44, with approximately half having NP/AP ratios below 4 and half with ratios above 4. The kinetic sample set was purposely and conservatively biased towards lower NP/AP ratios than the larger sample population. Field barrel samples have NP/AP ratios from 2.1 to 25 and are probably considered more typical of the larger population, rather than being conservative.

4.3.3 Kinetic Program Results

Results have been summarized in the following sections on the basis of material type: lithology, alteration and oxidation. The discussion is based substantially on the results from the humidity cell program and approximately one annual monitoring period of field barrel results. Results pertaining to the larger metallurgical columns for the heap leach facility are discussed separately in Section 4.4.

The discussion focusses on specific parameters, with complete results provided in Appendix H. Results are presented in terms of concentrations (mg/L) or release rates (mg/kg/wk) calculated by converting leachate concentrations (in mg/L) to parameter mass leached (mg/kg/wk) accounting for the weight of the sample and water added to the sample each week. Release rates for parameters in the laboratory tests are summarized in Table 6, while concentrations of key parameters from the field barrel tests are summarized in Table 7.

Figure 10 to Figure 14 provide statistical summaries of concentrations from the humidity cell tests, and Figure 15 presents concentrations of some key parameters as time trends. In all instances, pH throughout the period of testing remained near neutral for all samples (pH generally between 7 and 8). In addition, the carbonate molar ratio ($Ca+Mg/SO_4$) which should fall between 1.0 and 2.0 in samples that are actively neutralizing acidity generated by sulphide oxidation, were at values above 2 when SO_4 release rates were below 10 mg/kg/wk (~75% of the samples), and generally below 1.5 when SO_4 rates were greater than 10 mg/kg/wk (Figure 16).

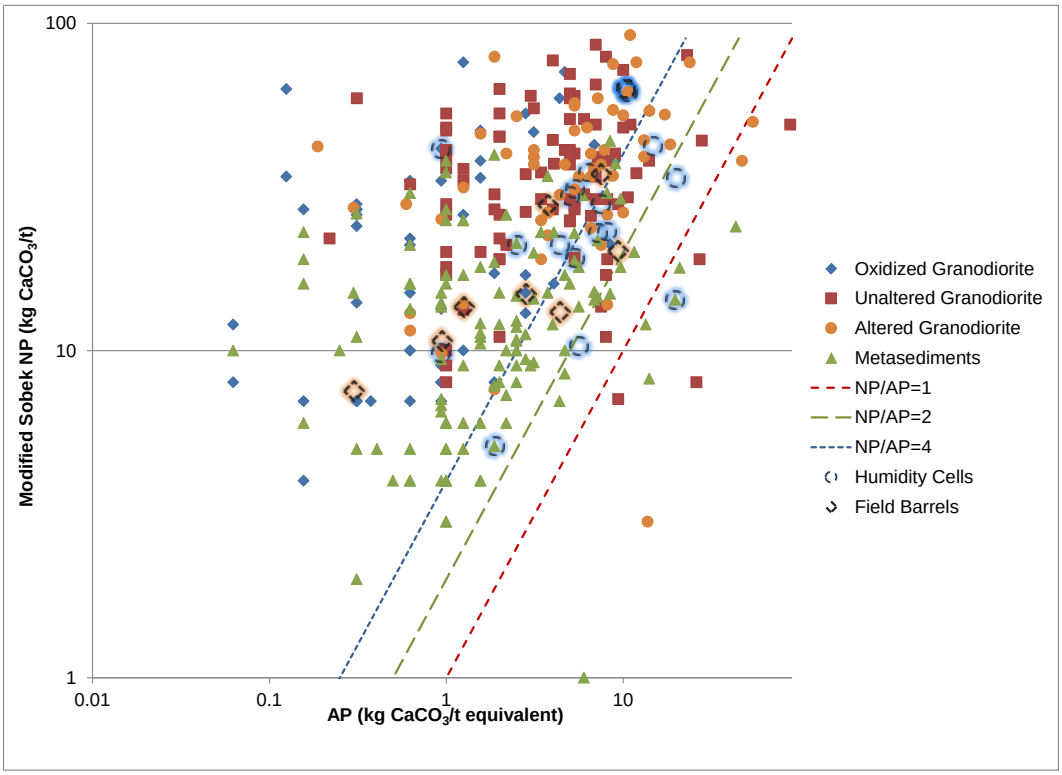
Field barrel time trends for key parameters are shown in Figure 17 with full results in Appendix H. As with pH from the humidity cell tests, the field barrel results throughout the period of testing remained buffered with pH generally between 7.5 and 8. Concentrations of other parameters are discussed by rock type in the following sub-sections.

Table 5: Acid Base Accounting and Trace Element Results of Samples Selected for Humidity Cell and Field Barrel Testwork.

Humidity Cell / Field Barrel	Rock Type	Test Type	Paste pH	Total Sulphur	Sulphate Sulphur	AP	NP	Net NP	NP/AP	TIC/AP	As	Au	Cd	Cu	Sb	Se
				(Wt.%)	(Wt.%)	(kg CaCO3/Tonne)					ppm	ppb	ppm	ppm	ppm	ppm
DGK 1	Metasediment	Standard Cell	8.3	0.14		4.4	21	17	4.8		34		0.50	19	20	
DGK 2	Unaltered Granodiorite	Standard Cell	8.2	0.20		6.3	35	29	5.6		566		1.00	23	12	
DGK 3	Oxidized Granodiorite	Standard Cell	8.3	0.08		2.5	21	19	8.4		88		0.50	22	2.0	
DGK 4	Altered Granodiorite	Standard Cell	8.5	0.33		10	63	53	6.1		246		1.00	34	28	
DGK 5	Altered Granodiorite	Duplicate of DGK 4	8.5	0.33		10	63	53	6.1		246		1.00	34	28	
DGK 6	Altered Granodiorite	Tall Cell	8.5	0.33		10	63	53	6.1		246		1.00	34	28	
DGK 7	Altered Granodiorite	Big Cell	8.5	0.33		10	63	53	6.1		246		1.00	34	28	
HC 1	Metasediment	Standard Cell	8.8	0.50	0.03	15	42	28	2.9	3.06	1614	1270	0.10	96	8.4	2.3
HC 2	Metasediment (hornfelsic)	Standard Cell	8.0	0.32	0.06	8.1	23	15	2.8	0.82	507	118	<0.1	55	0.3	1.1
HC 3	Unaltered Granodiorite	Standard Cell	8.8	0.27	0.03	7.5	28	21	3.7	3.0	101	46	0.10	51	1.4	0.90
HC 4	Altered Granodiorite	Standard Cell	8.6	0.67	0.03	20	34	14	1.7	1.7	3439	374	0.30	85	9.1	3.0
HC 5	Oxidized Granodiorite	Standard Cell	8.5	0.20	0.02	5.6	10	5	1.8	1.2	46	17	0.10	20	0.9	0.50
HC 6	Altered Granodiorite	Standard Cell	8.2	0.34	0.11	7.2	23	16	3.2	1.4	40	24	0.10	21	0.1	0.60
HC 7	Composite Ore Feed	Standard Cell	8.0	0.18	0.02	5.0	30	25	5.9	5.2	202	551	0.17	38	4.9	0.90
HC 8	Metasediment	Standard Cell	8.8	0.06	0.005	1.9	5.1	3.2	2.7	0.21	70	3	0.05	23	0.3	0.60
HC 9	Unaltered Granodiorite	Standard Cell	9.3	0.17	0.005	5.3	19	14	3.6	2.0	189	93	0.20	29	1.2	0.70
HC 10	Oxidized Granodiorite	Standard Cell	8.5	0.04	0.01	0.9	41	40	44	35	106	100	0.05	30	4.4	0.80
HC 11	Altered Granodiorite	Standard Cell	8.1	0.13	0.1	0.9	9.8	8.9	10	3.6	602	138	2.8	167	70	3.2
HC 12	Composite Ore Feed	Standard Cell	8.3	0.19	0.02	5.3	31	26	5.9	5.5	427	928	0.38	56	14	1.0
HC 13	Metasediment	Standard Cell	6.7	0.65	0.02	20	14	-5.4	0.73	0.7	359	14	0.07	71	3.3	0.70
HC 14	Granodiorite	Standard Cell	7.9	0.34	<0.01	11	62	51	5.8	6.9	113	120	1.54	50	18	1.1
DG-01	Oxidized Metasediment	Field Barrel	8.2	0.03	0.01	0.9	11	9.8	11	12	188	60	0.05	14	2.3	0.10
DG-02	Fresh Metasediments	Field Barrel	7.9	0.06	0.02	1.3	14	12	11	10	155	49	0.14	26	3.9	0.30
DG-03	Oxidized/Fresh Metasediments	Field Barrel	8.0	0.14	0.01	4.4	13	8.7	3.0	3.4	203	74	0.08	23	3.2	0.40
DG-04	Oxidized Granodiorite	Field Barrel	8.2	0.09	0.01	2.8	15	12	5.3	4.1	1065	139	0.19	44	4.4	0.70
DG-05	Fresh Granodiorite	Field Barrel	8.1	0.31	0.01	9.4	20	11	2.1	1.9	851	152	0.30	62	13	1.8
DG-06	Altered Granodiorite	Field Barrel	8.2	0.26	0.02	7.5	35	27	4.6	5.1	939	140	1.2	92	37	1.5
DG-07	Oxidized/Fresh Granodiorite	Field Barrel	8.3	0.12	0.01	3.8	28	24	7.4	7.3	174	38	0.48	22	4.1	0.30
DG-08	Overburden (Oxidized Metasedim	Field Barrel	7.7	0.01	0.01	0.3	7.5	7.5	25	14	193	79	0.22	33	13	0.40

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Note. Colour coding illustrates relative amount of each parameter compared to other samples, the larger the shaded area, the higher the parameter.



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Figure 9: Acid potential versus neutralization potential, highlighting samples in the kinetic testing program.

Table 6: Summary of Steady State Release Rates in Humidity Cells.

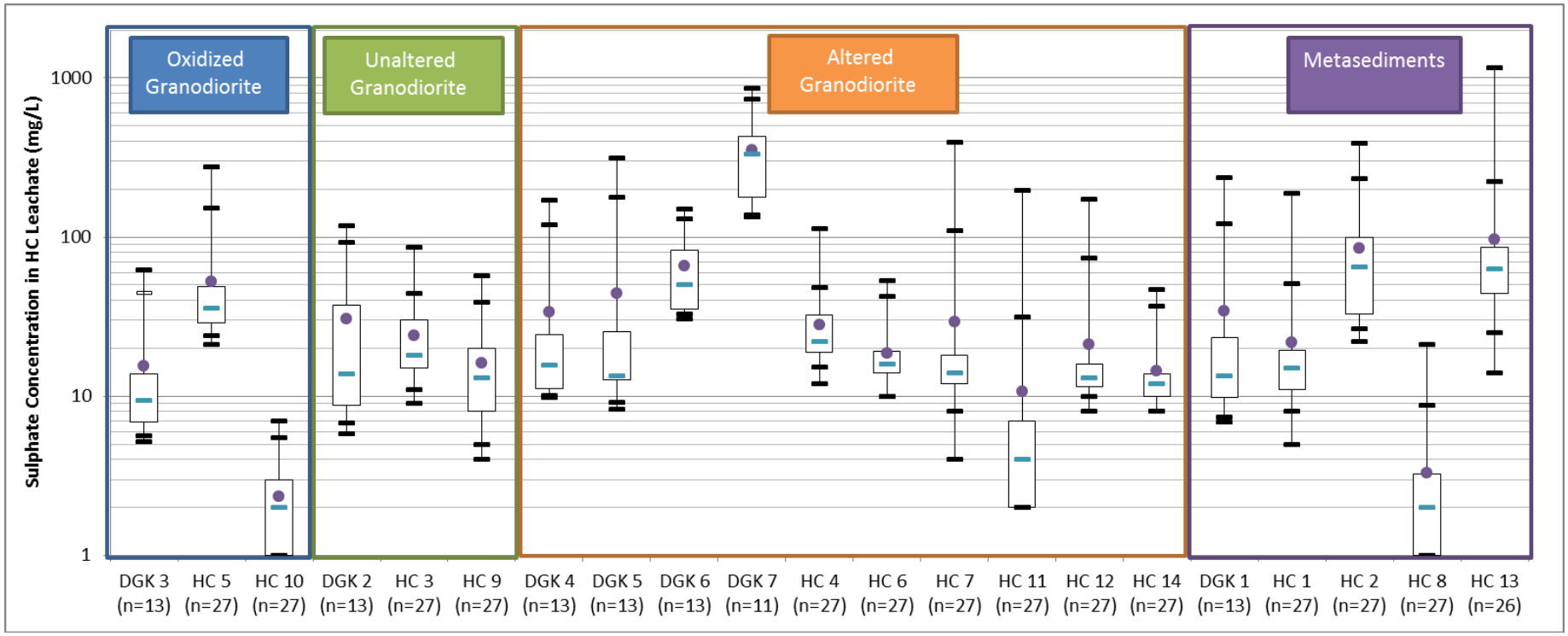
Humidity Cell #	Rock Type	Sulphate	Fluoride	Al	As	Ca	Cd	Cu	Fe	Mg	Mn	Sb	Se	U	Zn
		mg/kg/wk													
DGK 1	Metasediment	4.5		0.089	0.0048	3.2	0.0002117	0.00445	0.0134	0.38	0.0045	0.0030	0.0890		0.00255
DGK 2	Unaltered Granodiorite	4.9		0.091	0.0075	4.7	0.0000908	0.00454	0.0136	0.71	0.0063	0.0461	0.0908		0.00239
DGK 3	Oxidized Granodiorite	3.1		0.091	0.0144	3.1	0.0000913	0.00456	0.0137	0.27	0.0023	0.0020	0.0913		0.00228
DGK 4	Altered Granodiorite	5.6		0.090	0.0053	3.4	0.0000898	0.00449	0.0135	0.90	0.0043	0.0343	0.0898		0.00226
DGK 5	Altered Granodiorite	5.5		0.092	0.0069	3.8	0.0000921	0.00461	0.0138	1.02	0.0049	0.0428	0.0921		0.00240
DGK 6	Altered Granodiorite	5.7		0.029	0.0045	3.0	0.0000295	0.00147	0.0044	0.86	0.0021	0.0466	0.0295		0.00136
DGK 7	Altered Granodiorite	13.7		0.006	0.0009	3.2	0.0000092	0.00031	0.0009	0.84	0.0027	0.0181	0.0062		0.00026
HC 1	Metasediment	7.1	0.013	0.035	0.0026	5.4	0.0000028	0.00024	0.0024	0.21	0.0027	0.0006	0.0002	0.0004	0.00024
HC 2	Metasediment (hornfelsic)	28.8	0.134	0.022	0.0164	14.1	0.0000052	0.00041	0.0028	0.53	0.0053	0.0002	0.0010	0.0003	0.00055
HC 3	Unaltered Granodiorite	9.4	0.158	0.039	0.0008	6.6	0.0000043	0.00032	0.0018	0.80	0.0035	0.0166	0.0005	0.0126	0.00037
HC 4	Altered Granodiorite	11.8	0.033	0.027	0.0249	10.2	0.0000060	0.00035	0.0013	1.40	0.0030	0.0250	0.0013	0.0091	0.00047
HC 5	Oxidized Granodiorite	18.7	0.017	0.029	0.0041	8.7	0.0000024	0.00037	0.0041	0.32	0.0063	0.0001	0.0003	0.0016	0.00023
HC 6	Altered Granodiorite	7.4	0.043	0.048	0.0018	6.1	0.0000027	0.00038	0.0022	1.33	0.0020	0.0235	0.0011	0.0147	0.00025
HC 7	Composite Ore Feed	7.3	0.013	0.034	0.0088	7.9	0.0000036	0.00033	0.0017	0.38	0.0009	0.0158	0.0005	0.0032	0.00022
HC 8	Metasediment	1.1	0.010	0.016	0.0136	1.3	0.0000023	0.00017	0.0035	0.08	0.0006	0.0003	0.0001	0.0007	0.00018
HC 9	Unaltered Granodiorite	6.8	0.034	0.048	0.0008	6.5	0.0000047	0.00023	0.0018	0.58	0.0035	0.0061	0.0003	0.0179	0.00029
HC 10	Oxidized Granodiorite	1.0	0.050	0.015	0.0026	3.1	0.0000038	0.00013	0.0028	1.24	0.0006	0.0001	0.0001	0.0011	0.00015
HC 11	Altered Granodiorite	2.1	0.031	0.011	0.0493	3.1	0.0000115	0.00024	0.0054	0.28	0.0022	0.0026	0.0017	0.0004	0.00039
HC 12	Composite Ore Feed	10	0.013	0.010	0.0173	3.3	0.0000418	0.00069	0.0051	0.15	0.0017	0.0136	0.0003	0.0017	0.00122
HC 13	Metasediment	6.3	0.060	0.020	0.0300	4.5	0.0000040	0.00036	0.0013	0.51	0.0017	0.0173	0.0005	0.0028	0.00046
HC 14	Granodiorite	26.8	0.051	0.039	0.0086	13.2	0.0000037	0.00020	0.0064	2.21	0.0192	0.0058	0.0003	0.0002	0.00036

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Table 7: Summary of Leachate Concentrations in Field Tests (average of six analyses from September 2012 through October 2013).

Unit	Sample ID	pH	Alk	F	SO4	Al	Sb	As	Cd	Ca	Cu	Mg	Mn	Mo	Se	U	Zn
Oxidized Metasediment	DG12-MET-01	8.0	81	0.68	165	0.0021	0.0042	0.15	0.00001	61	0.0065	10.4	0.044	0.12	0.013	0.024	0.0074
Fresh Metasediments	DG12-MET-02	7.9	84	0.82	231	0.0020	0.005	0.030	0.000068	73	0.0051	23	0.026	0.029	0.020	0.015	0.0043
Mixed: Oxidized and Fresh Metasediments	DG12-MET-03	7.8	70	0.68	369	0.0025	0.028	0.012	0.000021	128	0.0063	19	0.057	0.017	0.031	0.16	0.0041
Oxidized Granodiorite	DG12-MET-04	8.0	72	0.51	275	0.0027	0.090	0.24	0.000091	89	0.011	8.1	0.035	0.033	0.025	0.15	0.0036
Fresh Granodiorite	DG12-MET-05	7.8	63	1.2	1111	0.0022	0.017	0.031	0.00028	278	0.012	71	0.13	0.044	0.27	0.38	0.022
Altered Granodiorite	DG12-MET-06	7.9	73	1.4	883	0.0019	0.23	0.083	0.00019	179	0.0095	66	0.097	0.035	0.067	0.34	0.023
Mixed: Oxidized/Fresh Granodiorite	DG12-MET-07	7.8	63	1.0	721	0.0021	0.025	0.011	0.00040	221	0.0075	39	0.27	0.021	0.065	0.26	0.016
Overburden (Mixed Oxidized Metasediment and Granodiorite)	DG12-MET-08	8.0	75	0.13	63	0.0067	0.0065	0.018	0.000027	45	0.0080	5.6	0.096	0.0064	0.0015	0.0031	0.0033

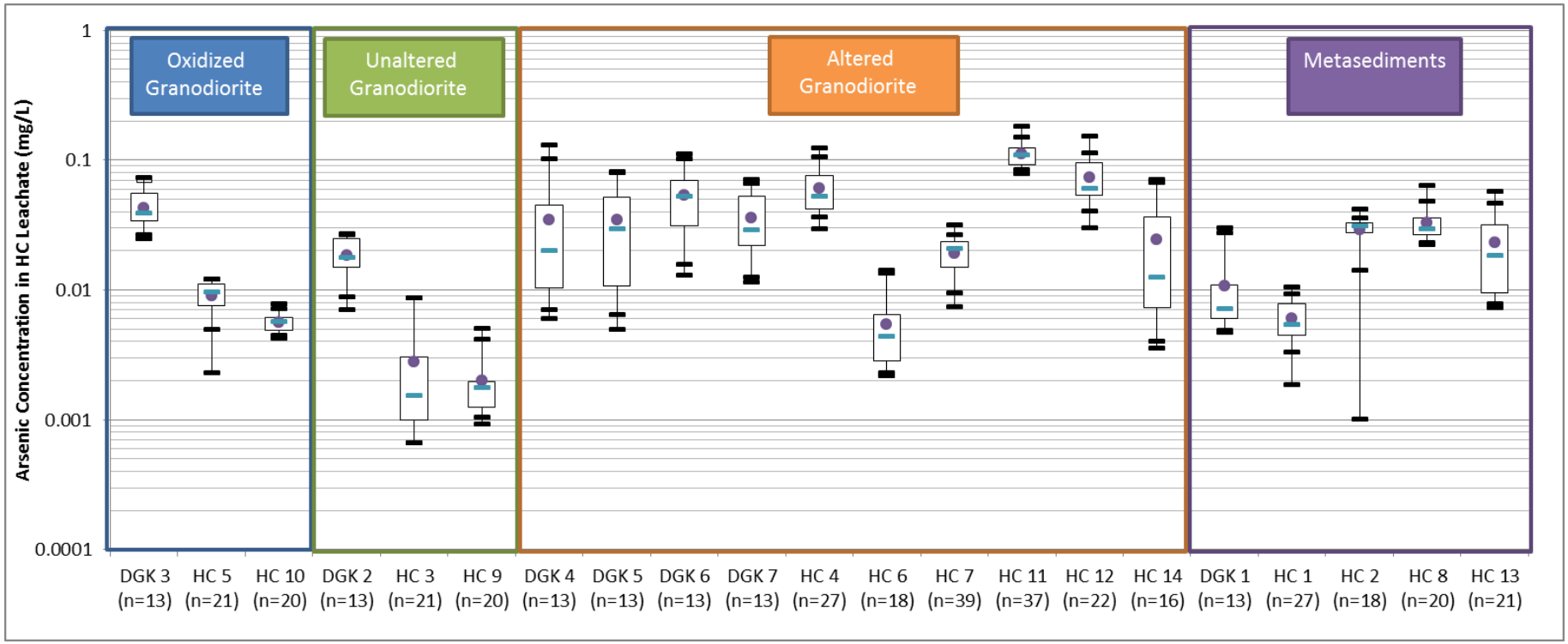
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(This plot is a conventional box and whisker graph, with the upper and lower extremes showing the minimum and maximum values, tick marks outside the box showing the 10th and 90th percentiles, outer margins of the box showing the 25th and 75th percentiles, central dash in the box showing the median value, and dot showing the arithmetic mean. Number of analyses for each sample varies as indicated in the sample label).

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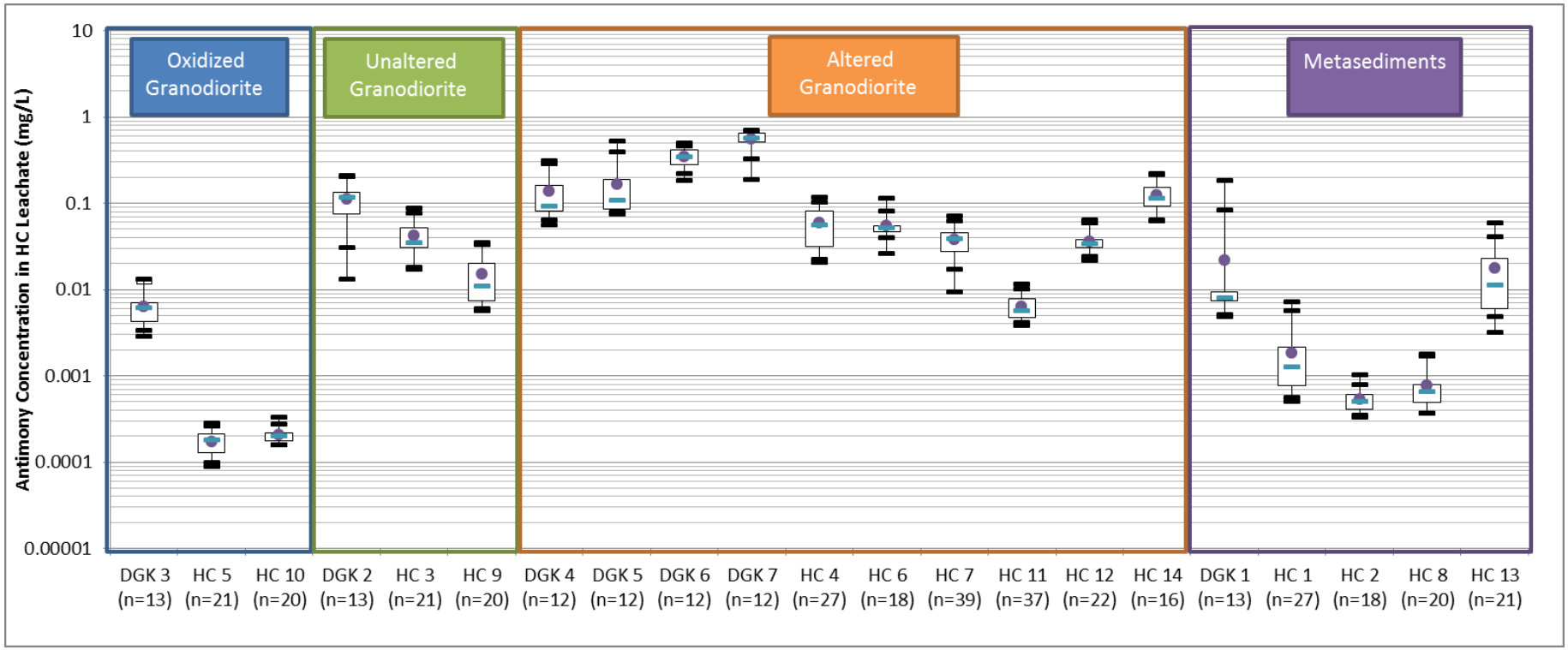
Figure 10: Box and whisker graph of sulphate concentrations from humidity cell tests.



(This plot is a conventional box and whisker graph, with the upper and lower extremes showing the minimum and maximum values, tick marks outside the box showing the 10th and 90th percentiles, outer margins of the box showing the 25th and 75th percentiles, central dash in the box showing the median value, and dot showing the arithmetic mean. Number of analyses for each sample varies as indicated in the sample label).

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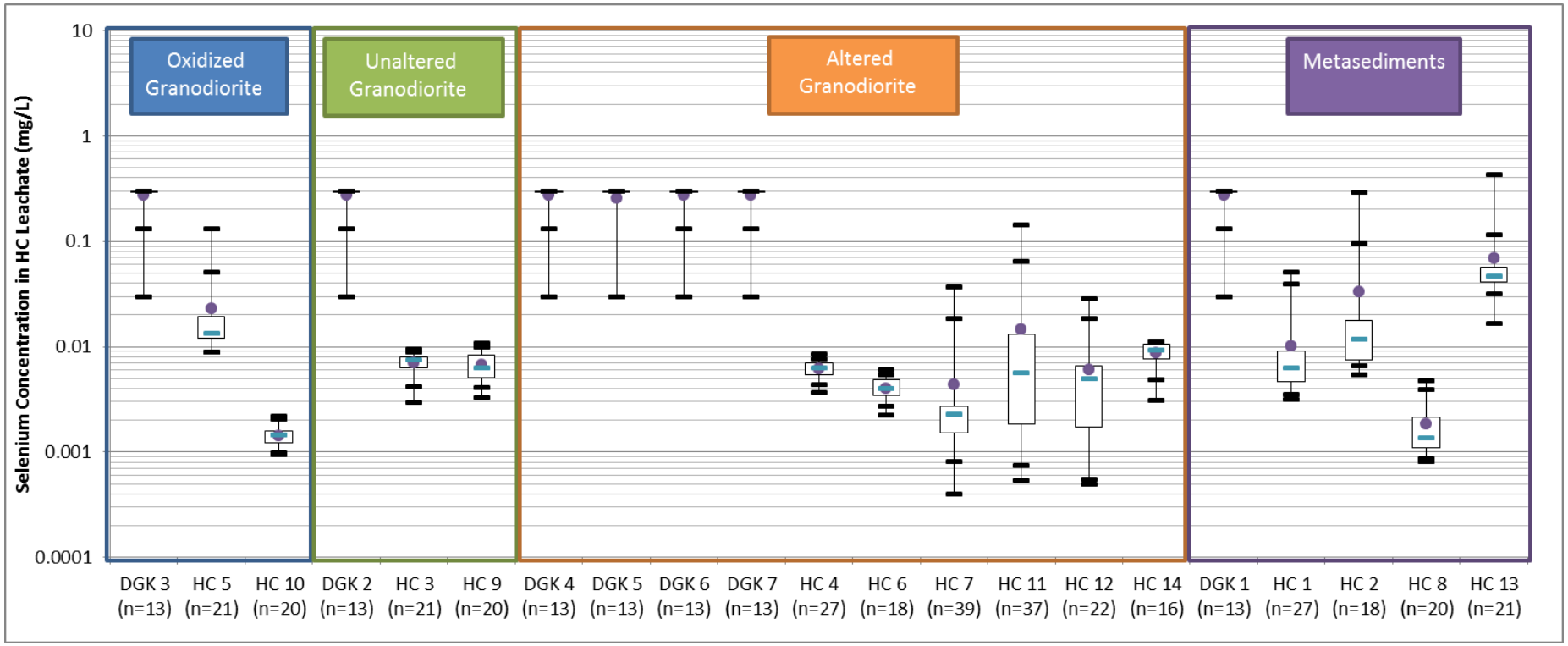
Figure 11: Box and whisker graph of arsenic concentrations from humidity cell tests.



(This plot is a conventional box and whisker graph, with the upper and lower extremes showing the minimum and maximum values, tick marks outside the box showing the 10th and 90th percentiles, outer margins of the box showing the 25th and 75th percentiles, central dash in the box showing the median value, and dot showing the arithmetic mean. Number of analyses for each sample varies as indicated in the sample label).

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Figure 12: Box and whisker graph of antimony concentrations from humidity cell tests.

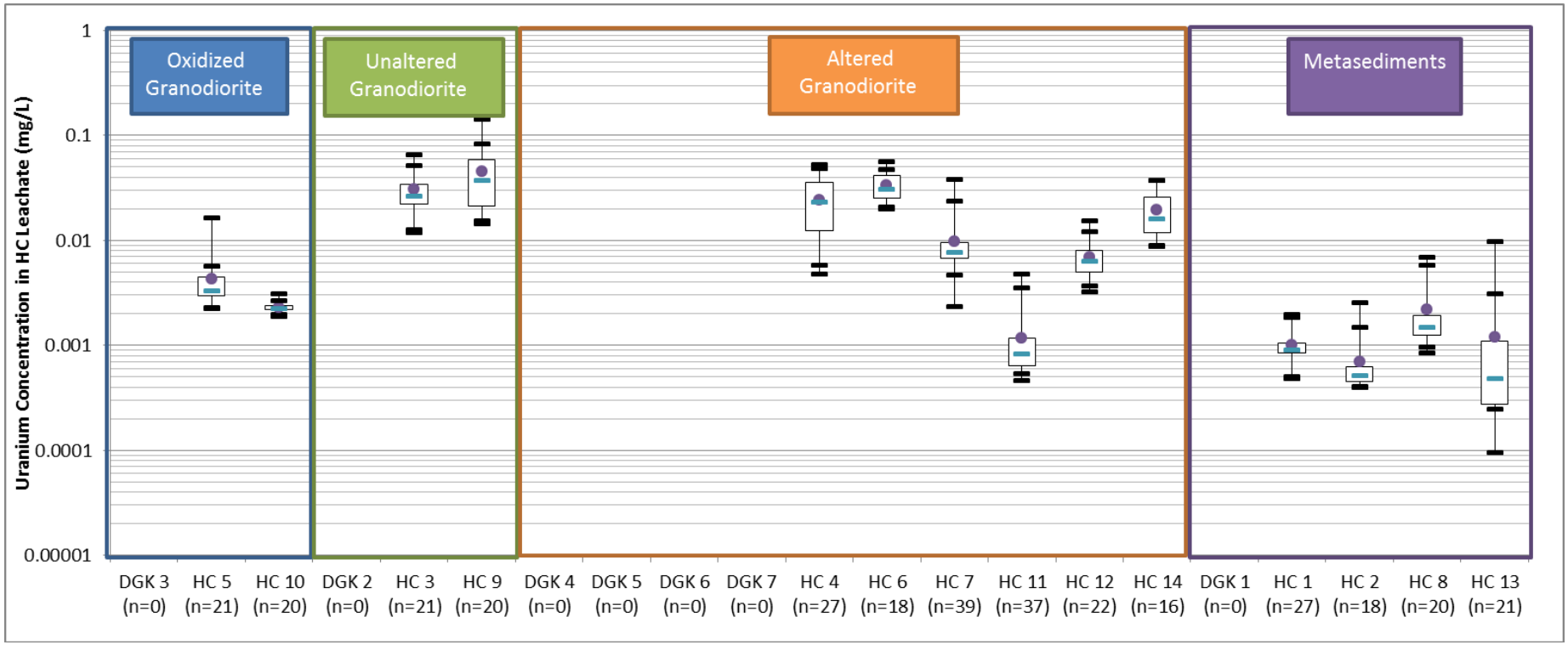


(This plot is a conventional box and whisker graph, with the upper and lower extremes showing the minimum and maximum values, tick marks outside the box showing the 10th and 90th percentiles, outer margins of the box showing the 25th and 75th percentiles, central dash in the box showing the median value, and dot showing the arithmetic mean. Number of analyses for each sample varies as indicated in the sample label).

Note that DGK samples were strongly influenced by relatively high detection limits for Se of 0.2 mg/L.

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Figure 13: Box and whisker graph of selenium concentrations from humidity cell tests.

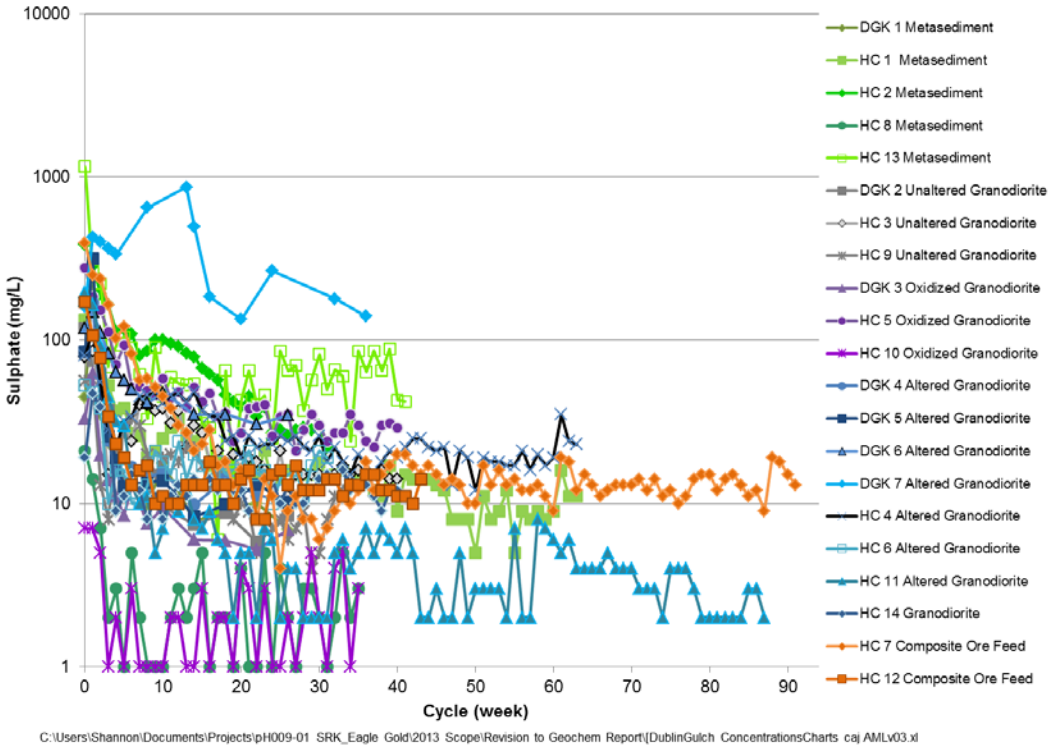


(This plot is a conventional box and whisker graph, with the upper and lower extremes showing the minimum and maximum values, tick marks outside the box showing the 10th and 90th percentiles, outer margins of the box showing the 25th and 75th percentiles, central dash in the box showing the median value, and dot showing the arithmetic mean. Number of analyses for each sample varies as indicated in the sample label).

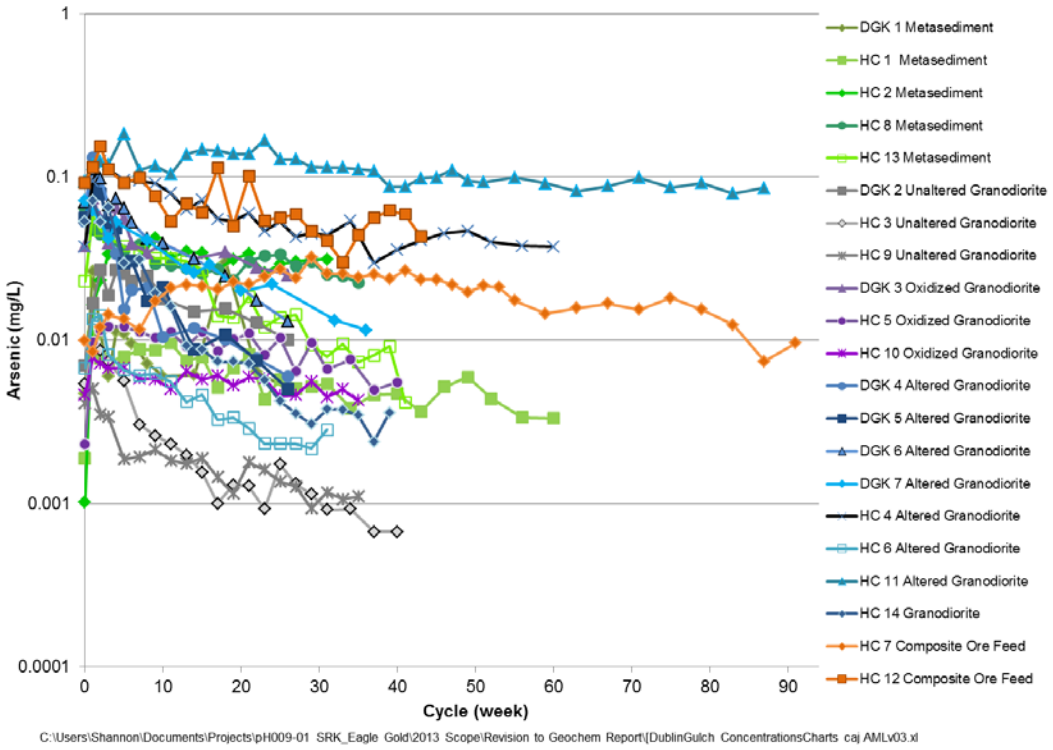
Note that DGK samples were not analyzed for uranium.

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Figure 14: Box and whisker graph of uranium concentrations from humidity cell tests.



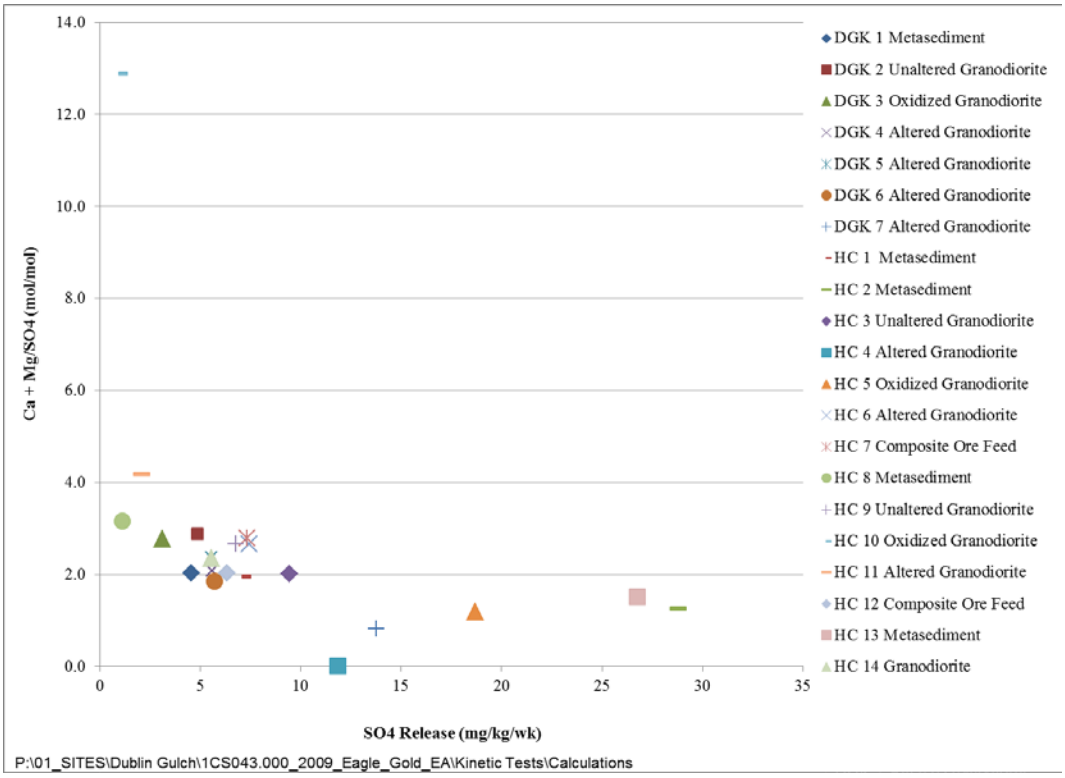
(a)



(b)

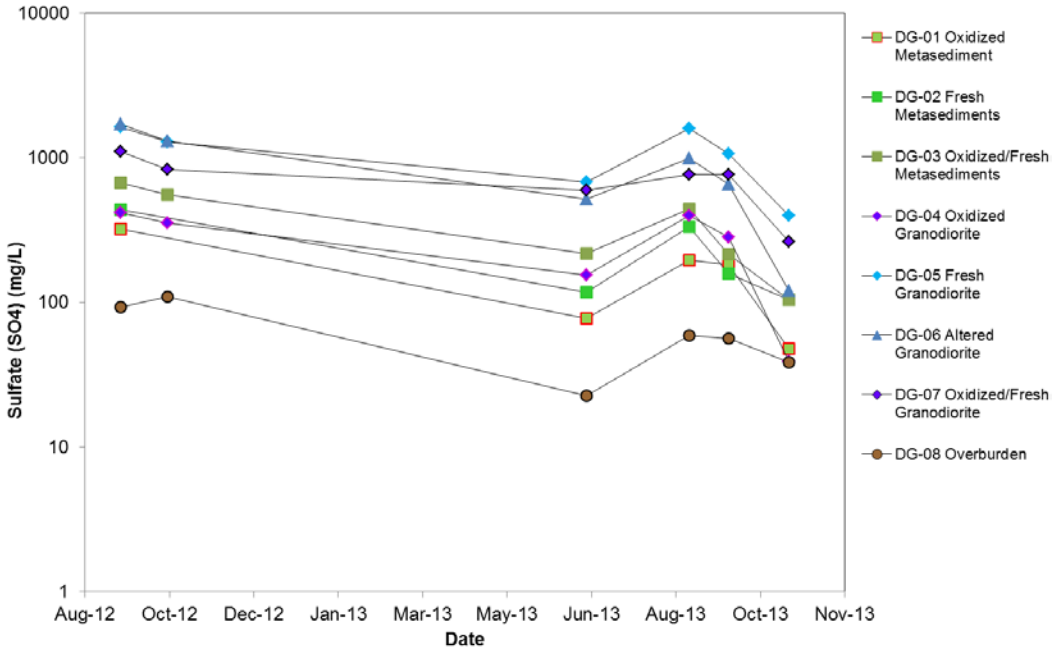
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Figure 15: Time trends of humidity cell leachate concentrations for key parameters a) sulphate and b) arsenic.

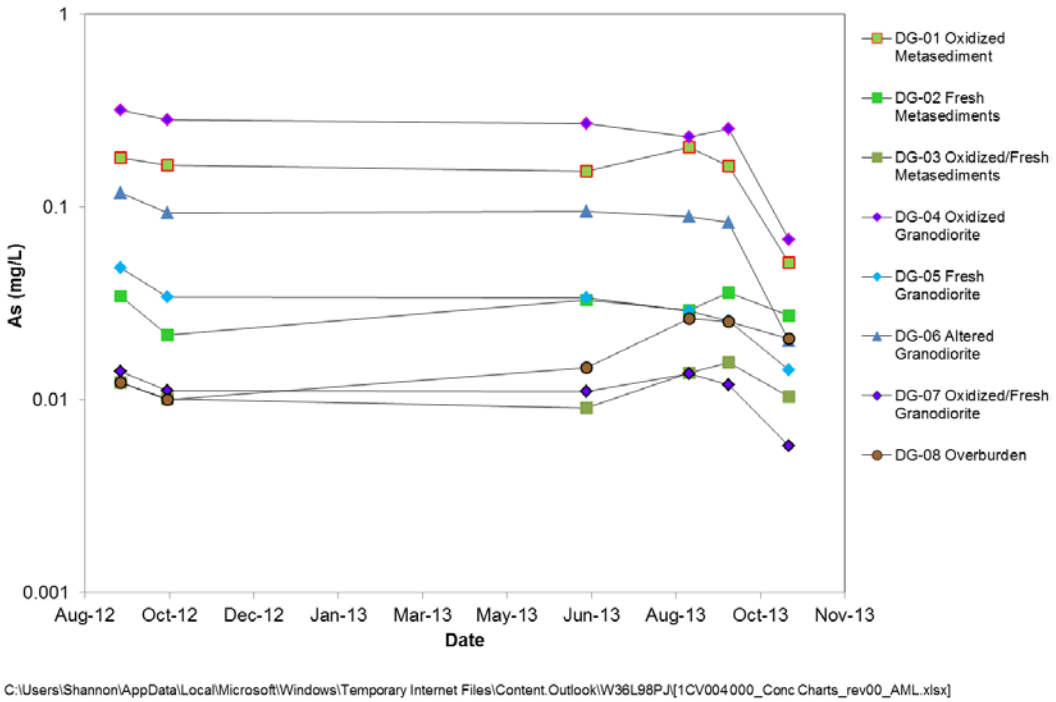


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Figure 16: Relationship of carbonate molar ratio to sulphate release rates in humidity cell tests.



(a)



(b)

Figure 17: Time trends of humidity cell leachate concentrations for key parameters a) sulphate and b) arsenic.

Kinetic Behaviour of Oxidized Granodiorite

The oxidized granodiorite is estimated to comprise about 19% of the waste rock and 35% of the ore, and is represented in the kinetic testing program by three (or 15%) of the humidity cell samples: DGK3, HC 5, and HC 10 (Table 6). These samples range in sulphur content from 0.04% (HC 10) to 0.2% (HC 5), NP/AP ratios from 1.8 to 44, arsenic content from 46 ppm (HC 5) to 106 ppm (HC 10), and variable distributions of other parameters of interest as shown in Table 5. In addition, two field barrels represent oxidized granodiorite, these are DG-04 and DG -07, a mixed barrel of oxidized and fresh (unaltered) granodiorite. These field barrel samples have sulphur contents of 0.09 and 0.12%, NP/AP ratios of 5.3 and 7.4 and arsenic contents of 1065 and 174 ppm respectively.

Results for the test duration are summarized in Table 6 as steady state release rates with selected graphs shown in Figure 10 to Figure 16 (also see Appendix H). Steady state concentrations represent the average concentrations for the period of time following the initial flush for each individual sample. The initial flush was determined from inspection of results on a sample specific basis and was generally within the first few weeks of testing.

The oxidized granodiorite samples remained buffered to pH values between 7 and 8 throughout the duration of testwork. Leachate concentrations of sulphate were very low (generally between 2 and 35 mg/L), with molar ratios of calcium and magnesium to sulphate ($Ca+Mg/SO_4$) above 2 in two of the three samples, indicating accelerated dissolution of neutralizing minerals by leachate water over and above the dissolution associated with buffering of acidity produced in the cell. Metals of particular interest tend to vary sample to sample such as arsenic, (ranging from ~0.005 to 0.04 mg/L) antimony (ranging from ~ 0.0002 to 0.006 mg/L), selenium (ranging from ~0.001 to 0.02 mg/L) and uranium (ranging from ~0.002 to 0.003 mg/L). In general the higher concentrations were seen in the sample amongst the set of three with the highest solid content; for example, the highest sulphate concentration came from HC5 which had the highest of the sulphide contents in the set. Similarly, the highest arsenic concentrations were seen from sample DGK3 which had the highest arsenic content of the three oxidized granodiorite samples. As a group, concentrations of parameters of interest from the oxidized granodiorite samples were generally similar or lower than that from the non-oxidized granodiorite samples.

Field barrel results for the oxidized granodiorite (DG-04 and DG-07) generally have concentrations about an order of magnitude higher than the humidity cell leachate concentrations. Field barrel leachate representing oxidized granodiorite generally reported sulphate concentrations on the order of 400 to 1000 mg/L (average ~500 mg/L). One of the field barrels (DG-04) had the highest arsenic concentrations (average 0.23 mg/L) while the other (DG-07) was typically the lowest of the set (0.011 mg/L). Concentrations of other parameters from the oxidized granodiorite were similar to values seen from other samples and no distinct seasonal trends are discernable within the time trends as yet (Appendix H).

Kinetic Behaviour of Unaltered Granodiorite

The unaltered granodiorite is estimated to comprise about 21% of the waste rock and 42% of the ore, and is represented in the humidity cell program by 15% or three of the humidity cell samples: DGK2, HC 3, and HC 9 (Table 6). These samples range in sulphur content from 0.17% (HC 9) to

0.27% (HC 3), NP/AP ratios from 3.7 to 5.6, arsenic content from 101 ppm (HC 3) to 566 ppm (DGK 2), and variable distributions of other parameters of interest as shown in Table 6. Field barrel samples of unaltered granodiorite are in barrels labelled DG-05 and mixed in DG-07 (mixed oxidized and unaltered granodiorite). These samples have sulphur contents of 0.31 and 0.12%, NP/AP ratios of 2.1 and 7.4 and arsenic contents of 851 and 174 ppm respectively.

Results for the test duration are summarized in Table 6 and graphically provided in Figure 10 to Figure 16 and Appendix H. Throughout testing, near neutral pH conditions were maintained. Concentrations of sulphate in the leachate were low (generally < 30 mg/L). Concentrations of arsenic varied on a sample by sample basis; ranging from values of approximately 0.001 mg/L to values of 0.02 mg/L. Other parameters of interest were generally low, but slightly higher than in the oxidized samples, such as antimony (ranging from 0.01 to 0.1 mg/L), selenium (ranging from 0.006 to 0.01 mg/L, ignoring the influence of the detection limit used in the 1996 work of 0.2 mg/L), uranium (ranging from 0.03 to 0.05 mg/L).

Field barrels representing the unaltered granodiorite include DG-05 and the mixed barrel DG-07. As with the oxidized granodiorite, field barrel concentrations were generally about an order of magnitude or more higher than that reported from the humidity cells for some of the key parameters (sulphate, arsenic, selenium and uranium). Average concentrations of sulphate over the year of monitoring were 1075 and 698 mg/L for the two barrels respectively. Arsenic was 0.03 and 0.011 mg/L, antimony was 0.017 and 0.025 mg/L, selenium was 0.24 and 0.06 mg/L and uranium was 0.36 and 0.26 mg/L (Table 7).

Kinetic Behaviour of Altered Granodiorite and Ore Composites

The altered granodiorite unit was represented in the humidity cell testing program by five samples, one being split into four unique cells (DGK4 through DGK7), as well as HC 4, HC 6, and HC 11 from the 2009/2010 work and HC12 and HC14 from the more recent test program (Table 6). In addition, two samples that were described as ore composites have been included in this section, these were labelled HC7 and HC12. Within this sample set, sulphur content ranges from 0.13% (HC 11) to 0.67% (HC 4), NP/AP ratios from 1.7 to 10.5, arsenic content from 40 ppm (HC 6) to 3439 ppm (HC 4), and variable distributions of other parameters of interest as shown in Table 6. Field barrel DG-06 is also representative of altered granodiorite and has a sulphur content of 0.26%, NP/AP of 4.6, arsenic content of 939 ppm (Table 6).

Results for the test duration are summarized in Table 6 and graphically provided in Figure 10 to Figure 16 and Appendix H.

Comparing the standard sized humidity cells to each other, concentrations were more similar sample to sample with sulphate concentrations generally between ~4 and 50 mg/L and similar to that in the unaltered samples. Other metals were within the range, or slightly higher than that seen in other granodiorite samples; for example arsenic (median values generally between 0.004 and 0.1 mg/L), antimony (0.005 to 0.1 mg/L), selenium (0.002 to 0.009 mg/L, ignoring the detection limit driven results of the DGK samples) and uranium (0.0008 to 0.03 mg/L).

In the modified cells (larger and taller cells represented by DGK-6 and DGK-7), concentrations of major ions (i.e., sulphate, calcium, magnesium, manganese, potassium and sodium) were higher

than in the standard tests from the same sample (DGK-4 and DGK-5), though release rates were very similar. This trend did not hold for arsenic however, where concentrations were similar in DGK4 through DGK7 regardless of sample size or infiltration rate, perhaps indicating a solubility control for arsenic. Lawrence (1997) had also concluded that the leachate chemistry from the tall cell, which was subjected to variable infiltration rates, indicated that for many parameters, concentrations also varied in direct response to changes in infiltration volumes, while other parameters were unaffected (e.g. arsenic).

Concentrations from the field barrel program for the altered granodiorite barrel (DG-06) were generally one to two orders of magnitude higher than in the humidity cells, and closer to that in the larger samples (DGK6 and DGK7), the exception being for antimony which was generally similar in the humidity cell and field barrel data.

Kinetic Behaviour of Metasediments

The metasediment rock type is represented in the kinetic testing program by five humidity cell samples: DGK1, HC 1, HC 2 and HC 8 provided in previous reports, and now HC13 added to the program in 2012 (Tables 5 and 6). Samples representing metasediments range in total sulphur content from 0.06% (HC 8) to 0.65% (HC 13), NP/AP ratios from 0.73 to 4.8, arsenic content from 34 ppm (DGK 1) to 1614 ppm (HC 1), and variable distributions of other parameters as shown in Table 6. In addition, field barrel samples of metasediments include those labelled DG-01, DG-02, DG-03 and part of DG-08 which is a mixed granodiorite and metasediment sample. Total sulphur values in these barrels range from 0.01% to 0.34%, NP/AP ratios ranged from 3.0 to 25 and arsenic content varied from 113 to 203 ppm (Table 5).

Results for the test duration are summarized in Table 7 as steady state release rates for key parameters and graphically in Figure 10 through Figure 16 in concentrations (see Appendix H for full details). As with all the granodiorite samples, the pH for all the metasediment samples remained buffered throughout the test duration. with pH values between 7 and 8. Steady state concentrations of sulphate were variable but generally low and within the range seen for the granodiorite samples (median values ranging from ~ 2 to 60 mg/L). Concentrations of some metals of interest were similar to the range in the granodiorite samples, such as arsenic (median values ranging from ~0.005 to 0.03 mg/L) and selenium (~0.001 to 0.045 mg/L); while others were slightly lower than in the granodiorite samples; such as antimony (from ~0.0005 to 0.01 mg/L) and uranium (from ~0.0005 to 0.0015 mg/L).

It is noted that while the highest arsenic bearing sample in the granodiorite sample set leached arsenic at higher rates than the lower arsenic bearing materials, the same was not seen in the metasediment samples where sample HC1 contained the highest amount of arsenic and had the lowest arsenic concentrations in the associated leachate in this unit. Similarly, the highest concentrations of sulphate were not necessarily correlated with the highest sulphide bearing samples in the metasediment sample set.

Field barrels representing metasediments showed higher concentrations than in the humidity cell samples with many parameters of interest being about an order of magnitude higher in the field barrels (e.g., sulphate, arsenic and uranium etc.) and other parameters that had similar

concentrations (e.g. antimony, and to a lesser extent selenium) in field barrel leachate and humidity cell leachate.

4.4 Spent Ore Humidity Column Test Program

The most recent metallurgical column testing for the Project has been conducted by KCA and was completed in June 2012 (KCA, 2013). Following cyanide leach testing, the spent columns were evaluated for detoxification and rinsing as directed by Tetra Tech. A detailed discussion of these treatment procedures and results has been provided by Tetra Tech (2014).

Following treatment testing, some of the columns were subjected to additional environmental leaching in a modified humidity column as described in Appendix D. Results of that post-treatment testwork on the spent ore are described in this section.

4.4.1 Sample Description

Columns that underwent longer term leaching included one column in 2009 (labeled HCol7B) and three columns in the more recent 2012/2013 program (IDs 63316, 63322 and 63301). Samples represented composite ore materials prepared by KCA.

4.4.2 Sample Characteristics

In both the 2009 and 2012/2013 work, splits of the composite ore material loaded into the columns were also included in the humidity cell program. This included material in cell HC7 (from the 2009 program and previously described in SRK 2010) and HC12 (from the 2012/2013 program). Characteristics of these splits are summarized in Table 6. Both ore samples are generally similar, with low sulphide content (~0.2% S) and NP of approximately 30 kg $CaCO_3$/t.

4.4.3 Column Results

Comparison of Previous and Current Program Results

A series of time trend graphs plotting the previous results (HCol7B) and the more recent results (IDs 63301, 63316, and 63322) for selected parameters are provided in Figure 18 through Figure 23.

Figure 18 and Figure 19 illustrate trends in the process related parameters pH and sodium, total cyanide as well as copper, cadmium and zinc, which are often complexed with cyanide, and their changes over time. During leaching, pH values are maintained at values above 10, sodium values are high (~800 to 1000 mg/L) and total cyanide values are also elevated (10 to 100 mg/L). Copper concentrations were also elevated during column operations to values between approximately 4 and 10 mg/L, other parameters that form weak acid dissociable complexes with cyanide show similar trends, for example cadmium, cobalt, iron, nickel and zinc, whereby concentrations during active leaching are higher than in the post cyanide leaching stages of the test.

Parameters that are anticipated to be leached from the various rocks naturally, in the absence of cyanide, show a slightly different trend through the testwork and in some instances trends that are inconsistent between the testing programs. Sulphate, for example in the 2009 test showed an

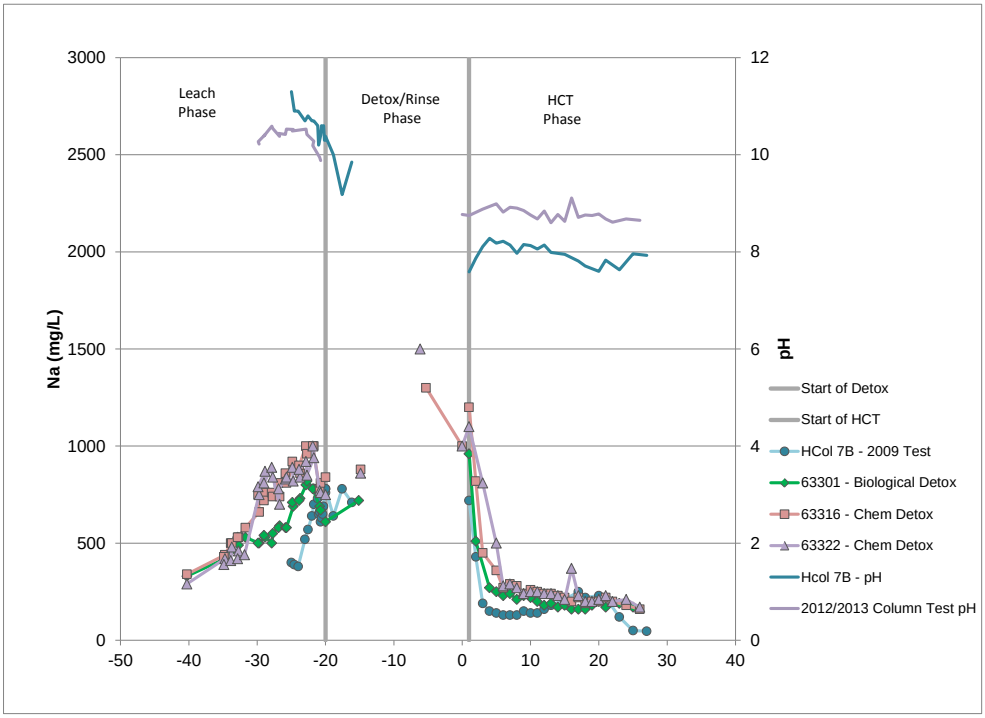
increase in the post-rinsing (HCT phase) compared to the active leach phase, with values slowly declining near the end of testing. The more recent testing indicated an initial spike followed more quickly by declining values of sulphate relative to the active leaching phase. The reason for the differing trends is unclear, and most other parameters showed similar trends and fairly similar values between the two programs.

Other parameters of interest are provided in Figure 20 to Figure 23, including fluoride, arsenic, antimony, iron, manganese, selenium and uranium. Fluoride trends indicate an increase during active leaching with a relatively fast drop and declining values through the longer term HCT phase. All samples reported generally similar concentrations. Arsenic and antimony exhibited similar trends. Concentrations of both parameters increased on fairly steep trends during active leaching and exhibited a declining trend through the HCT phase of testing. Values varied more greatly between samples with the highest arsenic concentrations in the HCT phase from the column that underwent biological detoxification in the 2012/2013 program. Antimony on the other hand was highest in the 2009 test column. Iron and manganese concentrations were higher during active leaching and at fairly low and steady concentrations in the HCT phase of testing. Samples generally had similar concentrations. The same can also be said for cadmium, selenium and zinc. The trend for uranium is also provided, though concentrations were not monitored in the column during active leaching so a comparison cannot be made between leaching and post leaching. Concentrations in the HCT phase were declining, with slightly higher vales reported in 2009 but converging on similar values to those in the recent testwork.

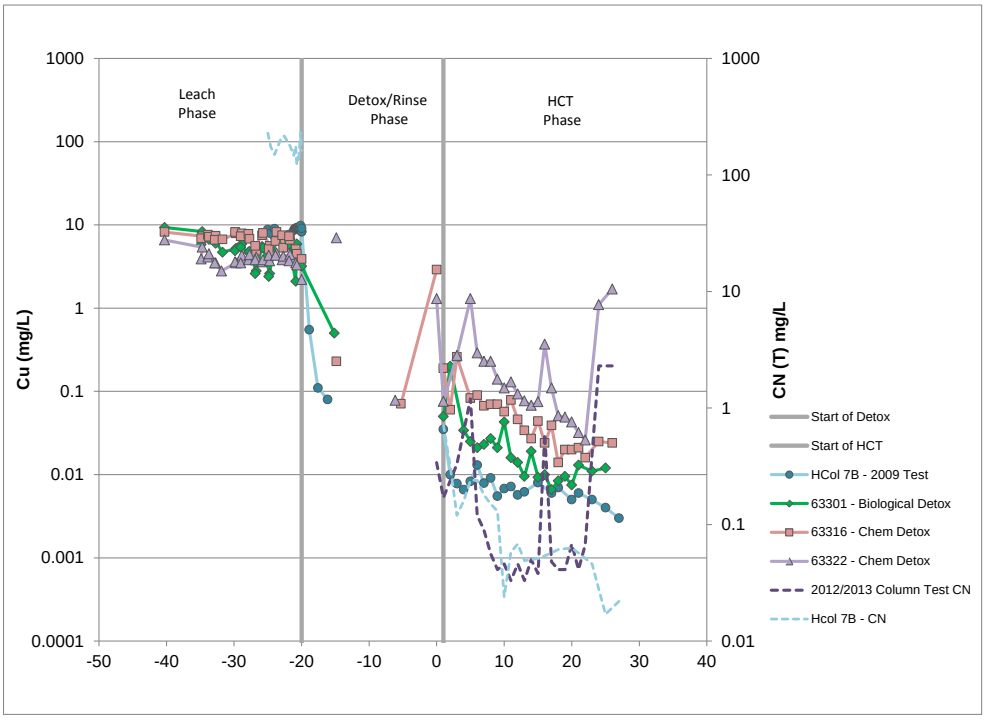
The complete set of figures for this testwork is provided in Appendix I.

On completion of the HCT phase of leaching the columns were dismantled and splits were sampled at discrete depths and submitted for leach extraction testing (using a 3:1 water to solid ratio) with the intent to assess influence of secondary minerals within the columns and, if present, whether a depth relationship existed.

Eight unique samples from the 2009 column were collected (labelled 43276 A through 43276 H) at 20 cm intervals. Four unique samples from two of the columns (63301 and 63316) columns from the 2012 program were collected representing 20 cm intervals every 40 cm down column. Results are summarized in Table 8 and a few parameters provided graphically in Figure 24. Concentrations of leachable constituents are generally low. Trends with depth in the column are inconsistent, in some cases higher concentrations in the leachate from upper portions of the column were seen whereas in other instances, concentrations were higher from samples collected from depth.



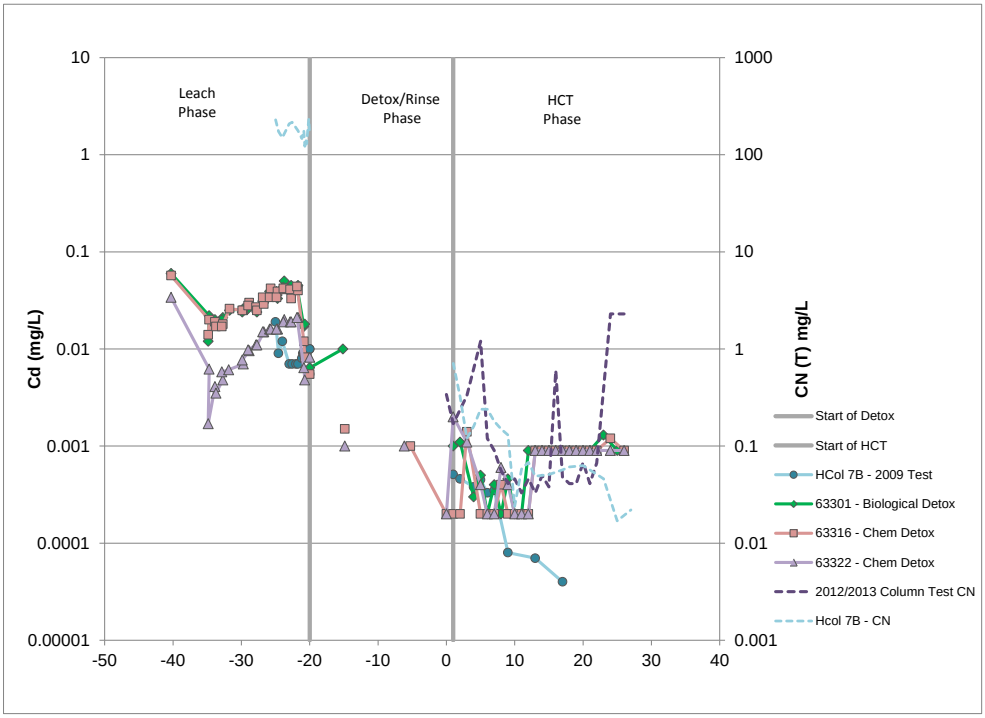
(a)



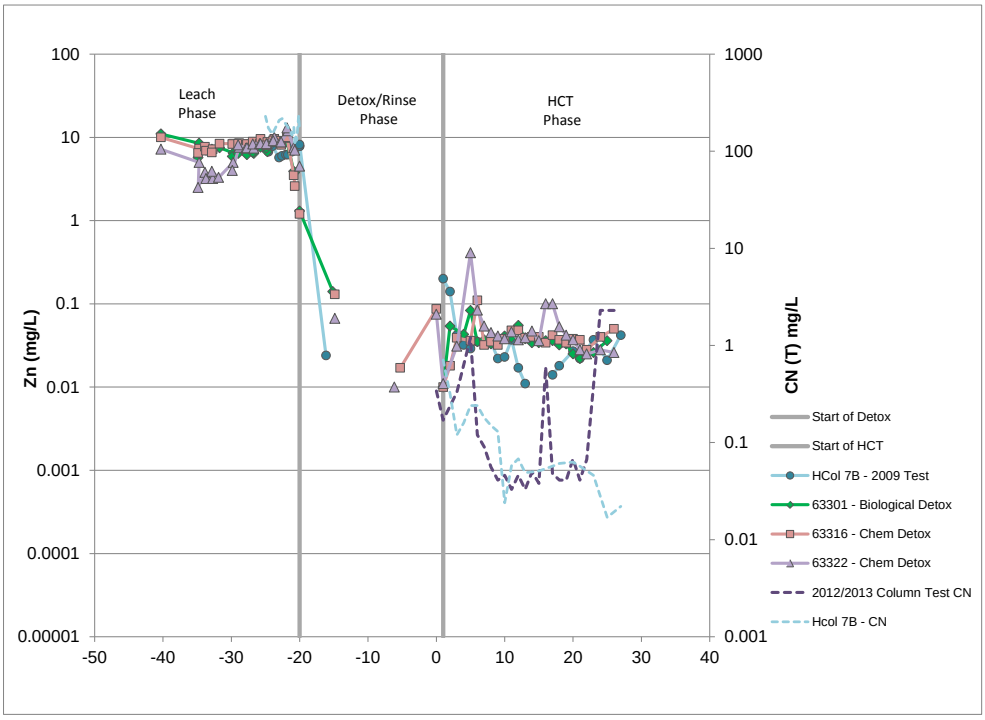
(b)

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Figure 18: Concentrations of a) sodium b) copper and total cyanide during leaching, detox and subsequent modified humidity column testing.



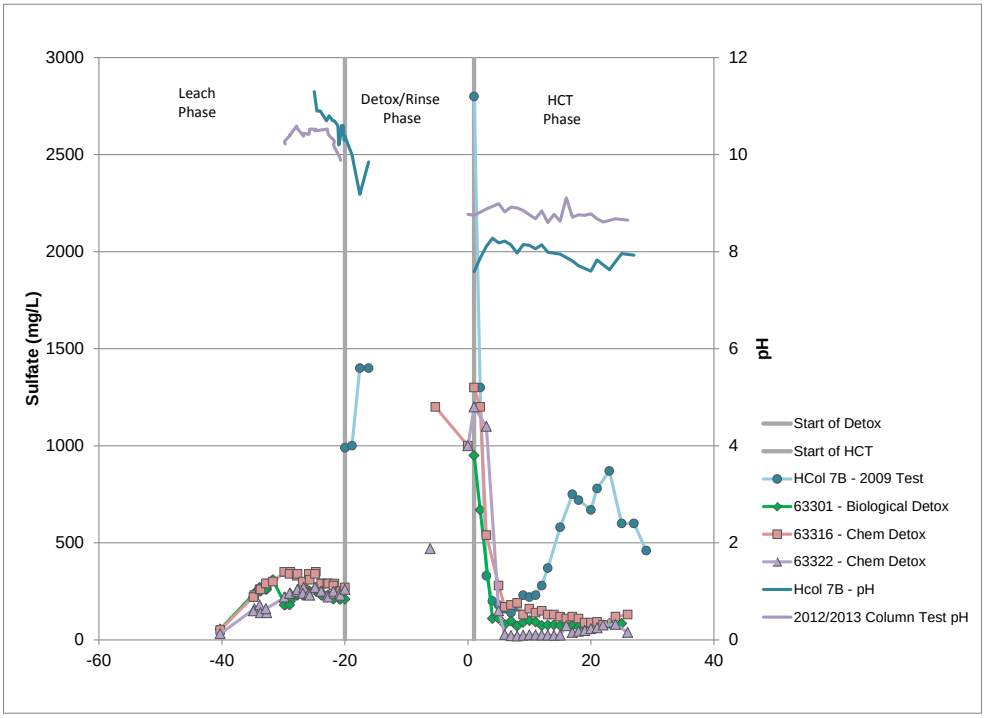
(a)



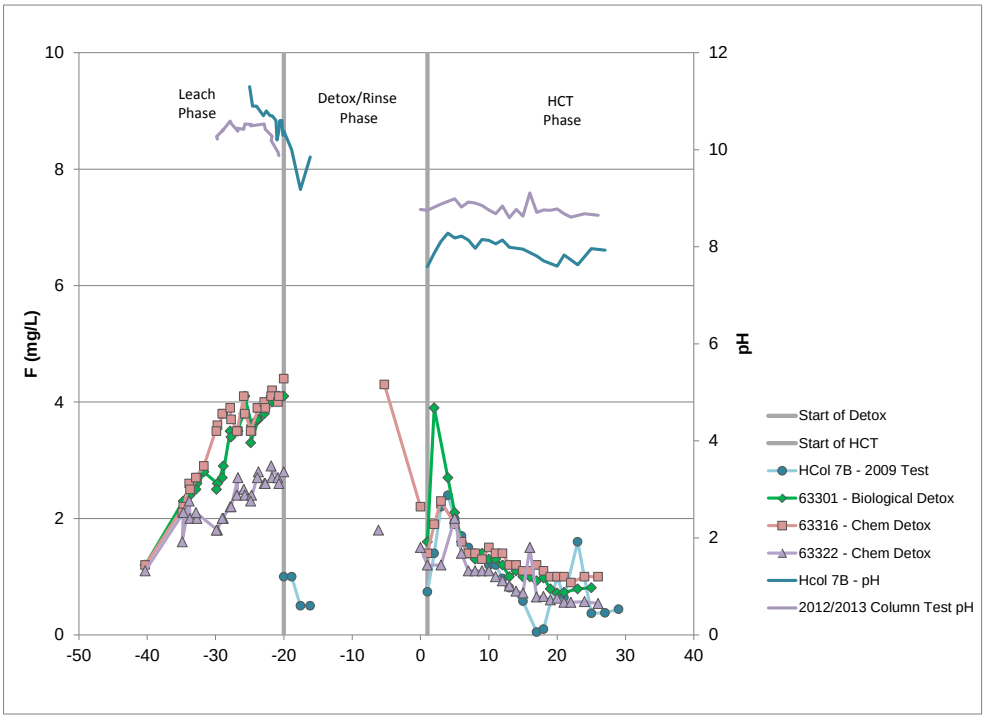
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Figure 19: Concentration trends of selected metals that form weak acid dissociable cyanide complexes: a) cadmium and b) zinc.



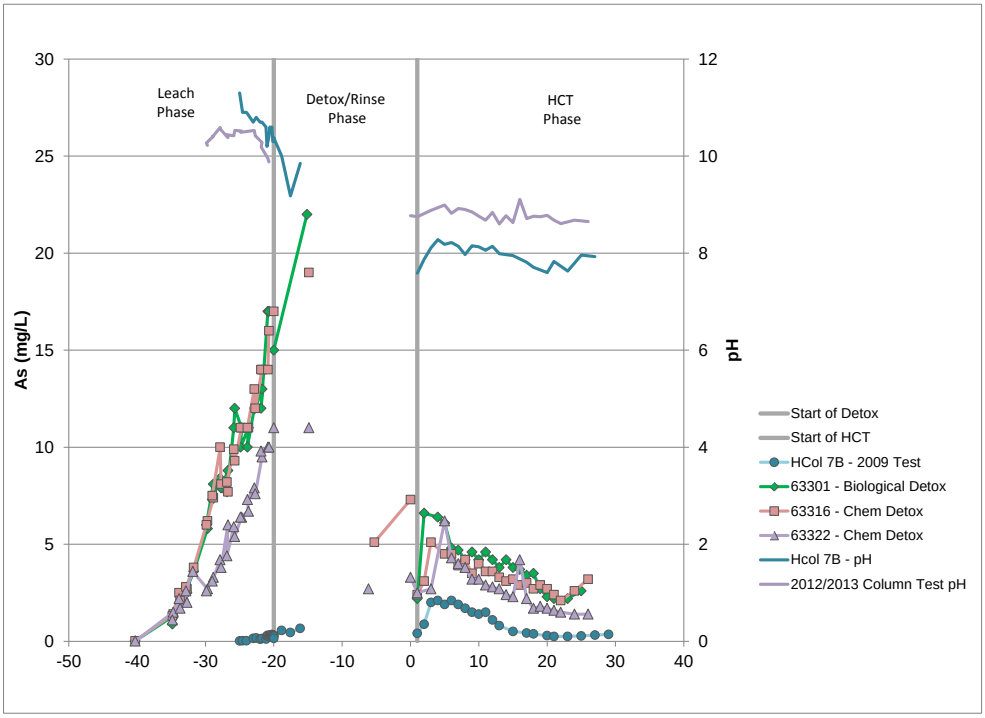
(a)



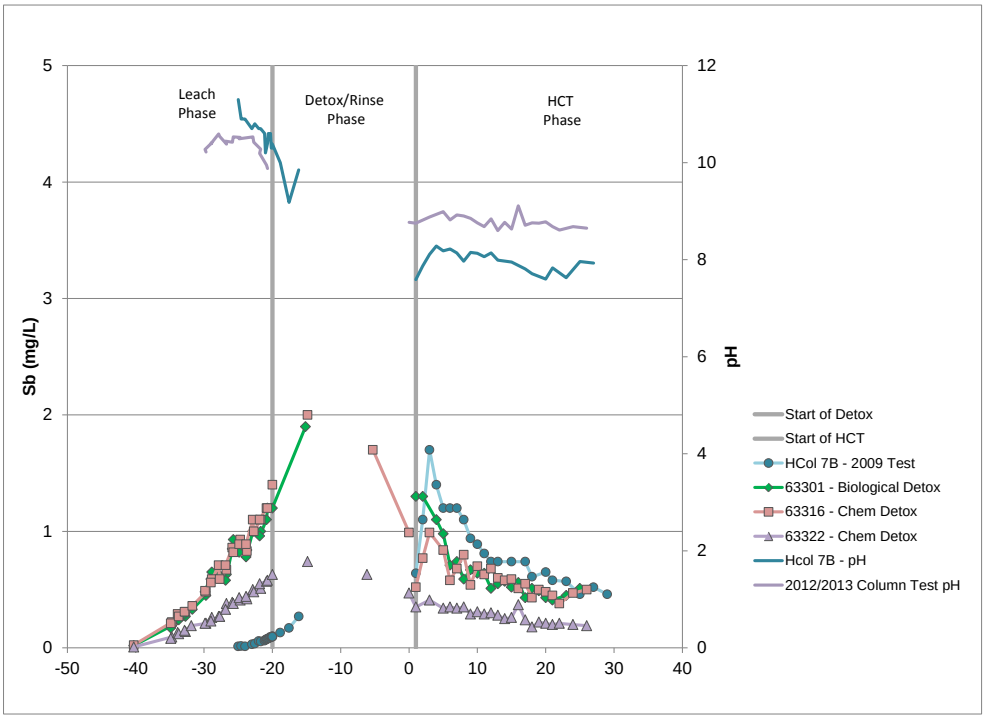
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Figure 20: Concentration trends of metals that are anticipated to leach naturally: a) sulphate and b) fluoride.



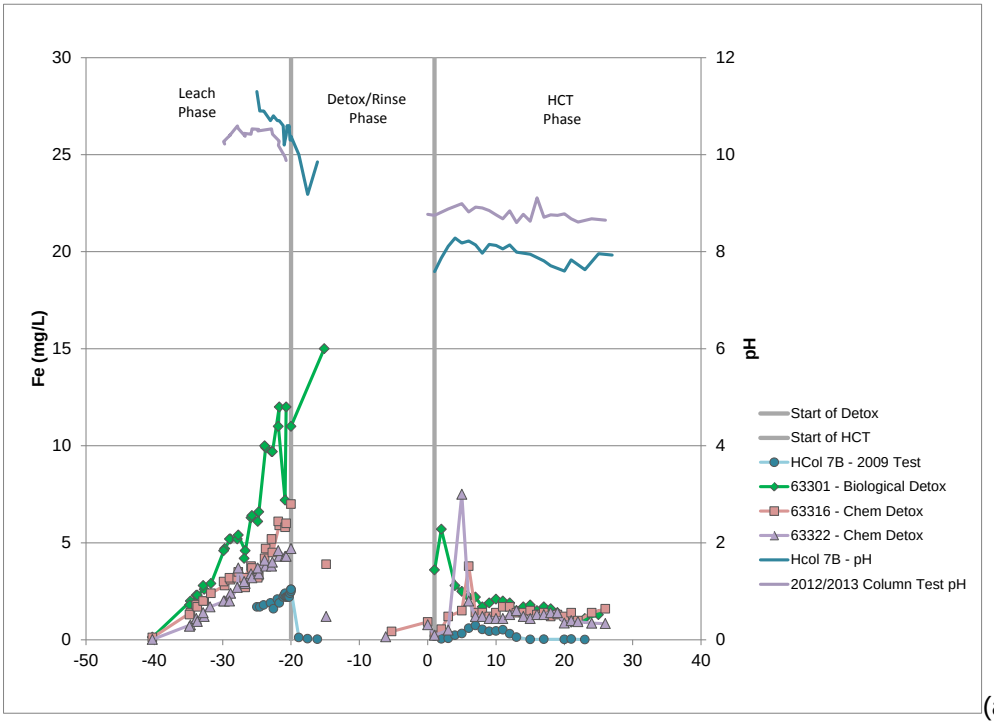
(a)



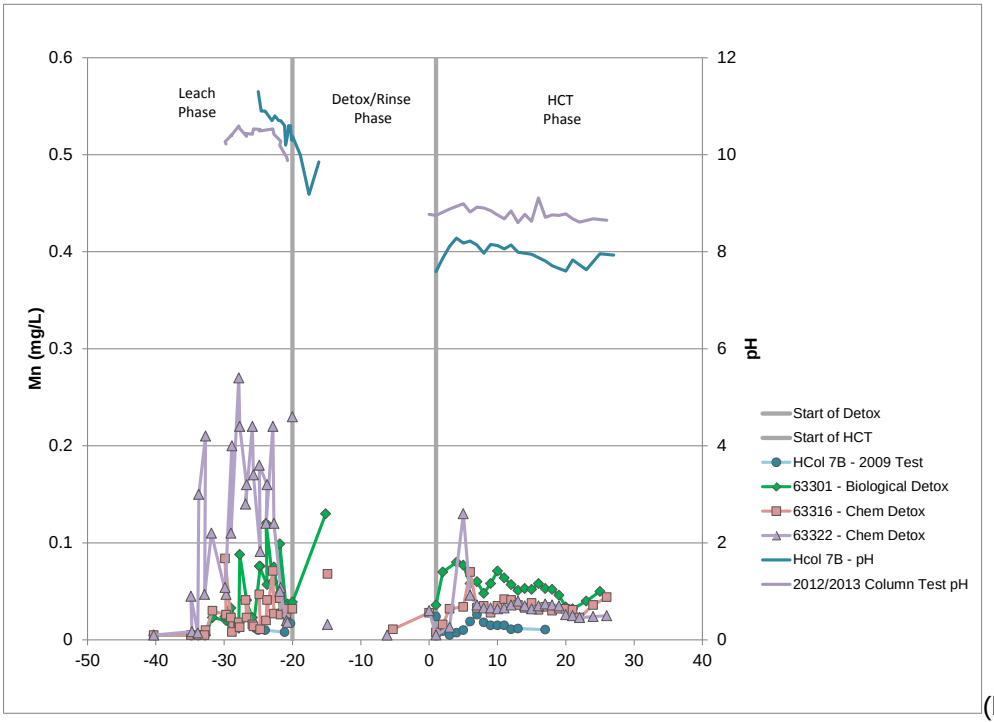
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Figure 21: Concentration trends of metals that are anticipated to leach naturally: a) arsenic and b) antimony.



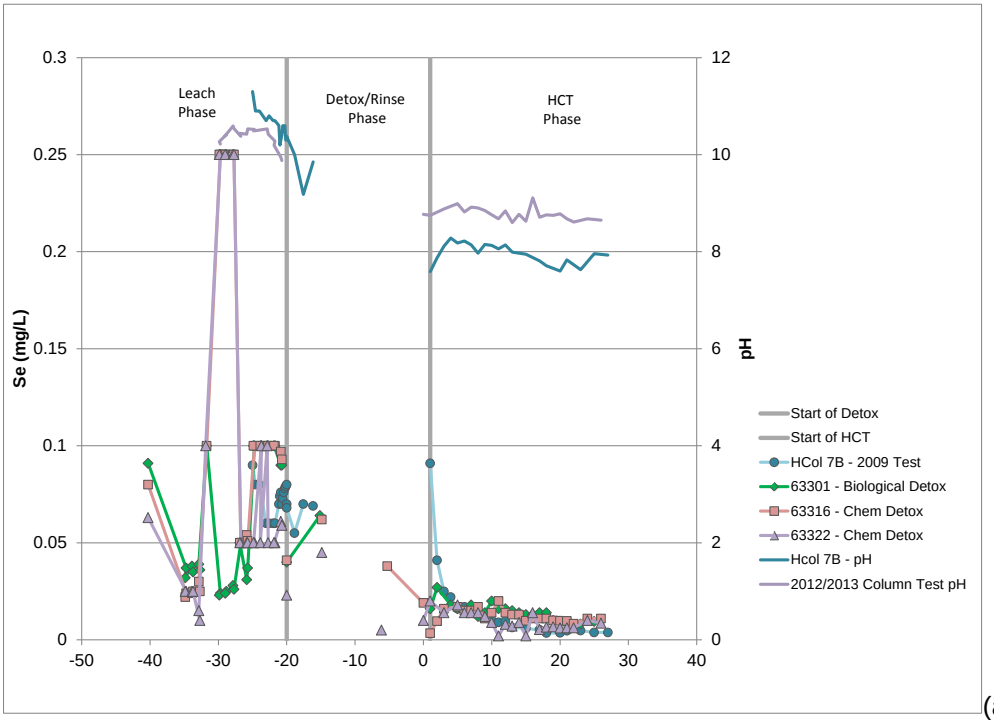
(a)



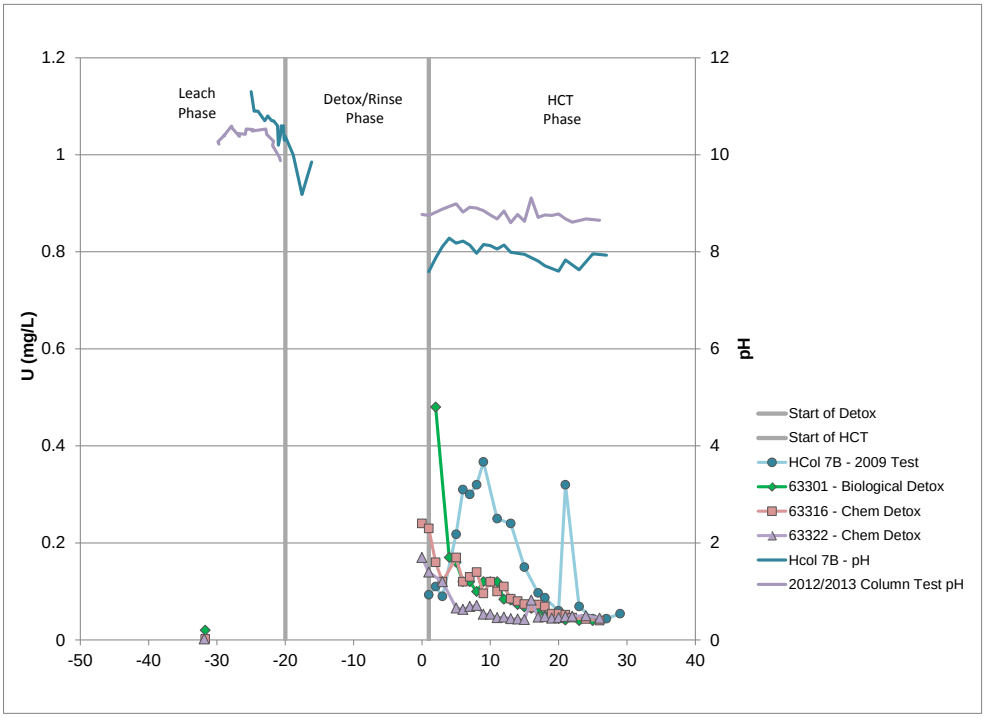
(b)

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Figure 22: Concentration trends of metals that are anticipated to leach naturally: a) iron and b) manganese.



(a)



(b)

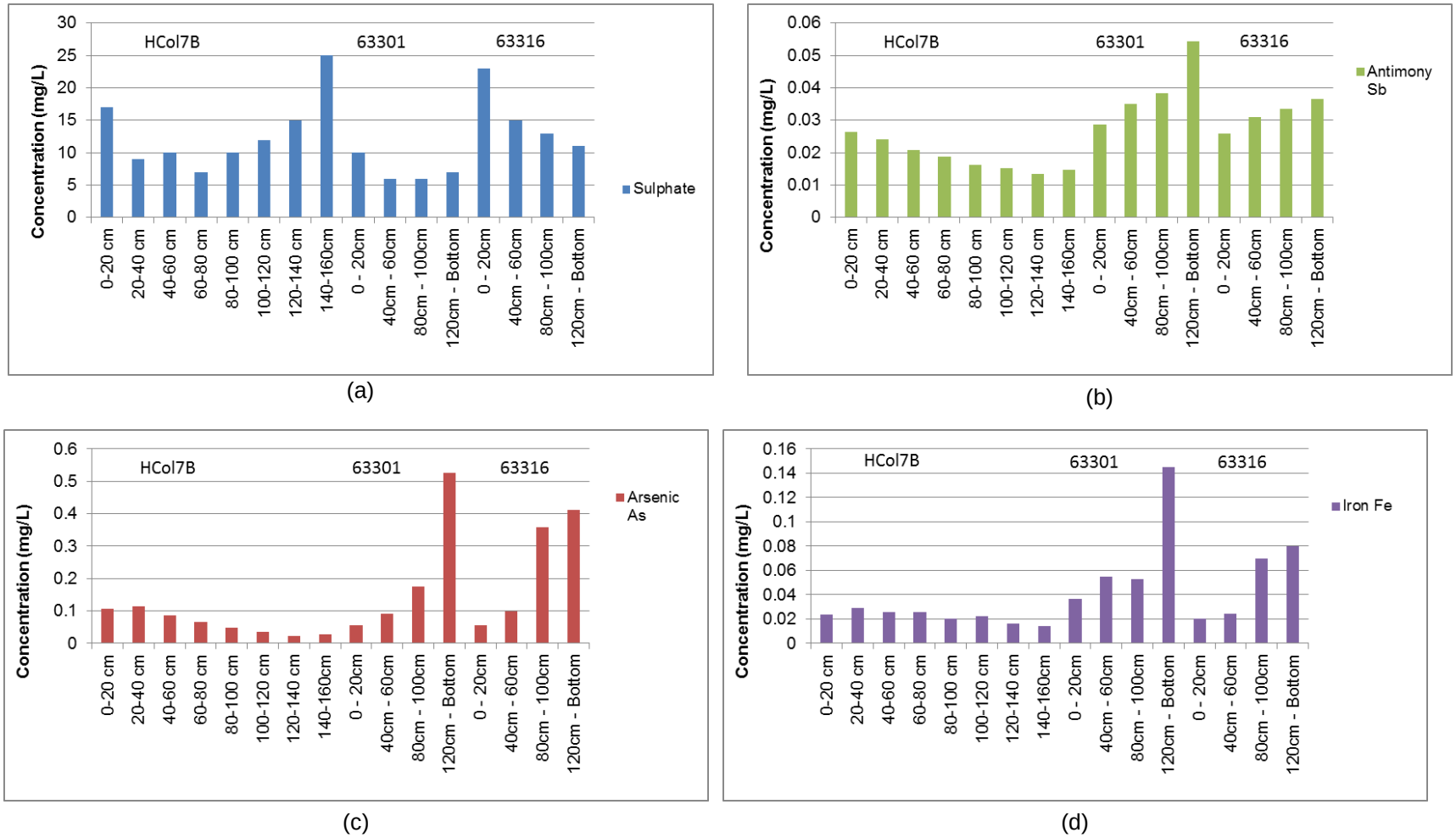
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Figure 23: Concentration trends of metals that are anticipated to leach naturally: a) selenium and b) uranium.

Table 8: Summary of Leach Extraction Results on Spent Ore Column Residues in mg/L.

Sample ID		pH	Alkalinity	Sulphate	Antimony	Arsenic	Cadmium	Calcium	Copper	Iron	Lead	Selenium	Sodium	Uranium	Zinc
48125 A (top)	0-20 cm	7.6	38	17	0.026	0.11	0.000005	18	0.0015	0.024	0.00085	0.0013	0.47	0.0061	0.0007
48125 B	20-40 cm	7.8	42	9	0.024	0.12	0.000007	16	0.0017	0.029	0.00045	0.0015	0.44	0.0069	0.0014
48126 C	40-60 cm	7.8	43	10	0.021	0.085	0.000009	17	0.0016	0.026	0.00032	0.0012	0.64	0.0061	0.0008
48126 D	60-80 cm	7.8	42	7	0.019	0.065	<0.000005	16	0.0014	0.026	0.00042	0.0011	0.38	0.0057	0.0007
48127 E	80-100 cm	7.8	44	10	0.016	0.047	<0.000005	17	0.00074	0.02	0.00024	0.00096	0.32	0.0054	0.0005
48127 F	100-120 cm	7.8	38	12	0.015	0.034	0.00001	16	0.00081	0.022	0.00056	0.00088	0.32	0.0043	0.002
48128 G	120-140 cm	7.8	43	15	0.014	0.023	0.000007	19	0.0012	0.016	0.00021	0.00088	0.35	0.0039	0.0019
48128 H (bottom)	140-160cm	7.8	41	25	0.015	0.029	0.00001	20	0.0022	0.014	0.00016	0.00093	0.38	0.0046	0.0009
63301	Top - 20 cm	7.8	44	10	0.029	0.05	0.00001	21	0.0009	0.036	0.001	0.0007	1	0.0036	0.0007
63301	40cm - 60cm	7.9	42	6	0.035	0.09	0.00001	12	0.0008	0.055	0.002	0.0009	2	0.0025	0.0011
63301	80cm - 100cm	8.1	51	6	0.038	0.18	0.000015	8	0.0005	0.053	0.005	0.0011	13	0.003	0.0011
63301	120cm - Bottom	8.6	70	7	0.054	0.53	0.000054	2	0.0016	0.145	0.022	0.0026	36	0.0042	0.0032
63316	Top - 20 cm	7.9	39	23	0.026	0.06	0.000011	19	0.0065	0.02	0	0.001	2	0.003	0.0005
63316	40cm - 60cm	7.9	39	15	0.031	0.1	0.000014	15	0.0013	0.024	0.001	0.001	3	0.0039	0.0013
63316	80cm - 100cm	8.2	57	13	0.034	0.36	0.000027	5	0.0014	0.07	0.011	0.0022	29	0.0057	0.0022
63316	120cm - Bottom	8.7	72	11	0.037	0.41	0.000034	2	0.0019	0.08	0.013	0.0022	43	0.0056	0.002
63301	40cm - 60cm	7.8	44	10	0.029	0.05	0.00001	21	0.0009	0.036	0.001	0.0007	1	0.0036	0.0007

Source: \\van-svr0\Projects\01_SITES\Dublin Gulch\1CV004.000_Eagle_Gold_Ongoing_Geochemical_Support\D_Reporting\3_WUL_Report\Source Files\eEagle Gold Static Testing Oct 12 11 (Oct 31 11).xls



Source: \\VAN-SVR0\Projects\01_SITES\Dublin Gulch\1CV004.000_Eagle_Gold_Ongoing_Geochemical_Support\D_Reporting\3_WUL_Report\Source Files\eEagle Gold Static Testing Oct 12 11 (Oct 31 11).xls

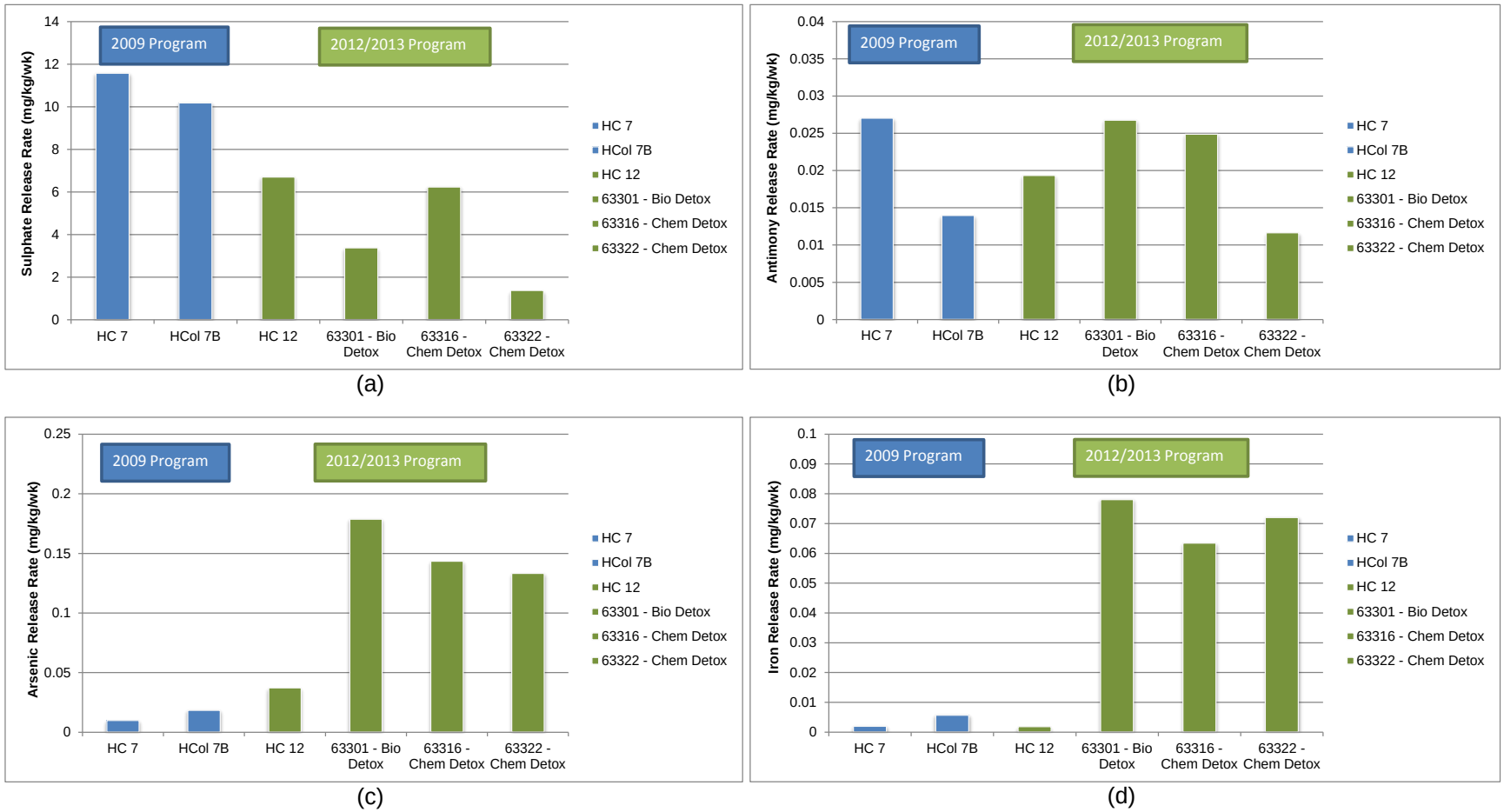
Figure 24: Concentrations in leach extraction solutions from shake flask extractions on splits from the column residue (HCol7B) at various heights; a) sulphate, b) antimony, c) arsenic and d) iron.

Comparison of Column Results and Humidity Cell Results

Because splits of the composite ore samples leached in the metallurgical program were also tested in a standardized humidity cell during both the 2009 and the 2012/2013 programs (HC7 and HC12 respectively), a comparison of the release rates in the 1 kg cell versus the 60 kg column can be made, bearing in mind the key differences in the two test methods being scale, water addition rates and the effects (or lack of) cyanidation.

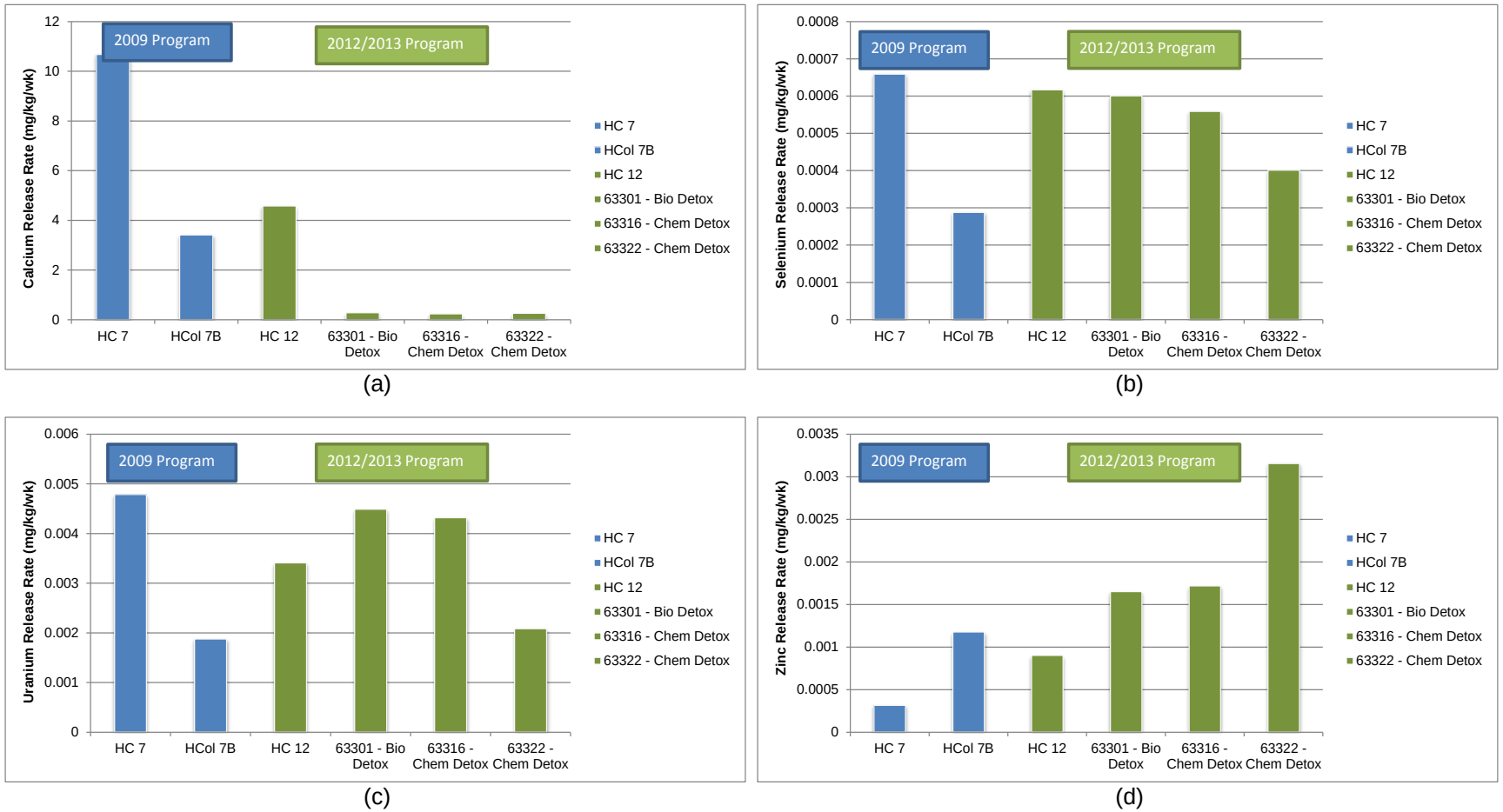
Concentrations were converted to release rates in units of mg/kg/wk in both the humidity cells and column tests accounting for rinsate volumes and sample mass. Steady state rates are compared in Figure 25 and Figure 26 below. There is a lack of a consistent trend in release rate comparisons between the two test methods. Release rates for parameters such as arsenic, iron and zinc tended to be higher in the column environment than in the humidity cells; release rates for parameters such as calcium and magnesium, and possibly sulphate, tend to be slightly higher in the humidity cell test compared to the columns, and release rates for other parameters showed inconsistent differences between the two programs (2009 and 2012/2013), for example uranium and selenium.

Rates of sulphate and calcium were higher in the 2009 program, whereas other parameters such as arsenic and iron were notably higher in the 2012/2013 program.



Source: \\VAN-SVR0\Projects\01_SITES\Dublin Gulch\1CV004.000_Eagle_Gold_Ongoing_Geochemical_Support\D_Reporting\3_WUL_Report\Source Files\comparison of release rates in HCs and Cols_20130613.xlsx

Figure 25: Comparison of the release rates from the ore composite humidity cells and the corresponding metallurgical columns (HCT phase) for a) sulphate, b) antimony, c) arsenic and d) iron.



Source: \\VAN-SVR0\Projects\01_SITES\Dublin Gulch\1CV004.000_Eagle_Gold_Ongoing_Geochemical_Support\D_Reporting\3_WUL_Report\Source Files\comparison of release rates in HCs and Cols_20130613.xlsx

Figure 26: Comparison of the release rates from the ore composite humidity cells and the corresponding metallurgical columns (HCT phase) for a) calcium, b) selenium, c) uranium and d) zinc.

5 Summary

A geochemical characterization program was completed in support of the Eagle Gold project in the Yukon Territory. The program included compilation of data from characterization work conducted in the 1990's and reported in Lawrence, 1997, augmented by characterization undertaken in 2009 and again in 2012/2013 to support the YESAB submission and Water Use License applications for the project.

Geologically the deposit can be simplified and described as an intrusive suite, predominantly granodiorite in composition, emplaced within a metasediment package. The granodiorite has been subdivided into three units, an oxidized unit, an altered unit and an unaltered unit, though geochemical differences in these three units are minimal. Gold occurs primarily as pure gold and in association with very small amounts of metallic bismuth [Bi] and arsenopyrite [FeAsS]. Other vein minerals include pyrite/marcasite [FeS_2] > pyrrhotite [$Fe_{1-x}S$] >> sphalerite [(Zn,Fe)S], chalcopyrite[$CuFeS_2$], galena [PbS], molybdenite [MoS_2] and iron oxides/hydroxides as well as metallic bismuth, Pb-Sb-(Cu,Zn) sulphosalts (e.g. bournonite [$PbCuSbS_3$] and boulangerite [$Pb_5Sb_4S_{11}$]) and tetrahedrite [$Cu_{12}Sb_4S_{13}$].

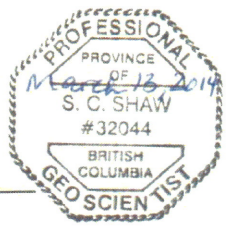
Characterization indicated that carbonates, predominantly calcite, were generally well in excess of sulphides. Calcite content was generally 1 to 4% (from X-ray diffraction) whereas sulphur was most often less than 0.5% (from Leco S and ICP-S). Static testing showed a predominance of non-acid generating material with the large majority of samples tested having a neutralization potential to acid potential ratio above 4. Acid rock drainage, or ARD, is therefore not anticipated for the Eagle Gold Project.

Kinetic testing based on humidity cell testing and a field barrel program indicate that, although pH conditions are expected to be neutral, some metal leaching may still occur. This may include leaching of sulphate, arsenic, cadmium, manganese, antimony, selenium and uranium, and potentially also fluoride, iron, lead, molybdenum, and zinc.

Testing of cyanide leached ore columns following detoxification indicated that until process waters are displaced from spent ore, there may also be elevated levels of nitrogen species, sodium and residual cyanide complexes (cadmium, copper, nickel, silver, zinc etc.) that would decrease with time. Concentrations of other trace elements such as arsenic, antimony and selenium are expected to diminish more gradually. Over the long term in post closure, the geochemistry of spent ore would be expected to be similar to waste rock, i.e. with near neutral pH but somewhat minimally elevated concentrations of sulphate, arsenic, cadmium, manganese, antimony, selenium and uranium, and possibly fluoride, iron, molybdenum and zinc.

Results of the program are being used by others for water quality predictions and waste and water management planning.

This report, **Geochemical Characterization, Eagle Gold Project**, was prepared by



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and reviewed by



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All data used as source material plus the text, tables, figures, and attachments of this document have been reviewed and prepared in accordance with generally accepted professional engineering and environmental practices.

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The opinions expressed in this report have been based on the information available to SRK at the time of preparation. SRK has exercised all due care in reviewing information supplied by others for use on this project. Whilst SRK has compared key supplied data with expected values, the accuracy of the results and conclusions from the review are entirely reliant on the accuracy and completeness of the supplied data. SRK does not accept responsibility for any errors or omissions in the supplied information, except to the extent that SRK was hired to verify the data.

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Appendix A: Sample Information

Appendix A1: Sample Description

List of Static Testing Samples

Sample Number	Drill Hole	From (ft)	To (ft)	Source	Rock Type	Reporting
48158	--	--	--	ore feed split	ore	2013 - WUL Report
DG11-414C Int. 12.17-21.34	DG11-414C	40	70	--	altered granodiorite (C)	2013 - WUL Report
DG11-417C Int. 120.4-131.06	DG11-417C	395	430	--	altered granodiorite (C)	2013 - WUL Report
DG11-419C Int. 105.16-115.82	DG11-419C	345	380	--	altered granodiorite (C)	2013 - WUL Report
G019214	DG05-308C	410	420	--	altered granodiorite (chlorite/sericite), no sulphide	2010 - EA Report
G019217	DG07-327C	41	74	--	altered granodiorite (chlorite/sericite), no sulphide	2010 - EA Report
G019248	DG07-311C	306	321	--	altered granodiorite (chlorite/sericite), no sulphide	2010 - EA Report
G019252	DG07-311C	537	570	--	altered granodiorite (chlorite/sericite), no sulphide	2010 - EA Report
G019254	DG07-311C	723	755	--	altered granodiorite (chlorite/sericite), no sulphide	2010 - EA Report
G019256	DG07-303C	575	610	--	altered granodiorite (chlorite/sericite), no sulphide	2010 - EA Report
G019259	DG07-303C	355	388	--	altered granodiorite (chlorite/sericite), no sulphide	2010 - EA Report
G019263	DG07-303C	36	60	--	altered granodiorite (chlorite/sericite), no sulphide	2010 - EA Report
M404101 to -09	DG12-479C (218-235)	715	771	--	altered granodiorite	2013 - WUL Report
1055	DG 95-80-R	280	285	--	granodiorite (C)	2010 - EA Report
1056	DG 95-80-R	285	290	--	granodiorite (C)	2010 - EA Report
1063	DG 95-80-R	315	320	--	granodiorite (C)	2010 - EA Report
1128	DG 95-80-R	625	630	--	granodiorite (C)	2010 - EA Report
1178	DG 95-81-R	105	110	--	granodiorite (C)	2010 - EA Report
1259	DG 95-81-R	490	495	--	granodiorite (C)	2010 - EA Report
1375	DG 95-83-R	295	300	--	granodiorite (C)	2010 - EA Report
1386	DG 95-83-R	345	350	--	granodiorite (C)	2010 - EA Report
1467	DG 95-84-R	590	595	--	granodiorite (C)	2010 - EA Report
1477	DG 95-84-R	635	640	--	granodiorite (C)	2010 - EA Report
1519	DG 95-85-R	525	530	--	granodiorite (C)	2010 - EA Report
1647	DG 95-87-R	305	310	--	granodiorite (C)	2010 - EA Report
1675	DG 95-87-R	440	445	--	granodiorite (C)	2010 - EA Report
51855	DG 95-82-R	525	530	--	granodiorite (C)	2010 - EA Report
51865	DG 95-82-R	575	580	--	granodiorite (C)	2010 - EA Report
51902	DG 95-82-R	750	755	--	granodiorite (C)	2010 - EA Report
51965	DG 95-84-R	60	65	--	granodiorite (C)	2010 - EA Report
52008	DG 95-84-R	260	265	--	granodiorite (C)	2010 - EA Report
52288	DG 95-88-R	200	205	--	granodiorite (C)	2010 - EA Report
52316	DG 95-88-R	330	335	--	granodiorite (C)	2010 - EA Report
52721	DG 95-90-R	580	585	--	granodiorite (C)	2010 - EA Report
52972	DG 95-92-R	180	185	--	granodiorite (C)	2010 - EA Report
53208	DG 95-92-R	580	585	--	granodiorite (C)	2010 - EA Report
70842	DG 95-133-R	285	290	--	granodiorite (C)	2010 - EA Report
70981	DG 95-134-R	565	570	--	granodiorite (C)	2010 - EA Report
71019	DG 95-134-R	755	760	--	granodiorite (C)	2010 - EA Report
75673	DG 95-97-R	315	320	--	granodiorite (C)	2010 - EA Report
75735	DG 95-97-R	610	615	--	granodiorite (C)	2010 - EA Report
75860	DG 95-98-R	470	475	--	granodiorite (C)	2010 - EA Report
76908	DG 95-116-R	60	65	--	granodiorite (C)	2010 - EA Report
76983	DG 95-116-R	415	420	--	granodiorite (C)	2010 - EA Report
77034	DG 95-117-R	165	170	--	granodiorite (C)	2010 - EA Report
77253	DG 95-119-R	390	395	--	granodiorite (C)	2010 - EA Report
77317	DG 95-119-R	695	700	--	granodiorite (C)	2010 - EA Report
G019213	DG05-308C	367	400	--	granodiorite with sulphide, alterec	2010 - EA Report
G019222	DG07-327C	361	395	--	granodiorite with sulphide, alterec	2010 - EA Report
G019223	DG07-327C	436	471	--	granodiorite with sulphide, alterec	2010 - EA Report
G019230	DG07-331C	597	627	--	granodiorite with sulphide, alterec	2010 - EA Report
G019235	DG07-335C	778	808	--	granodiorite with sulphide, alterec	2010 - EA Report
G019249	DG07-311C	328	358	--	granodiorite with sulphide, alterec	2010 - EA Report

List of Static Testing Samples

Sample Number	Drill Hole	From (ft)	To (ft)	Source	Rock Type	Reporting
G019253	DG07-311C	588	620	--	granodiorite with sulphide, alterec	2010 - EA Report
G019255	DG07-303C	640	670	--	granodiorite with sulphide, alterec	2010 - EA Report
G019261	DG07-303C	79	112	--	granodiorite with sulphide, alterec	2010 - EA Report
1001	DG 95-80-R	20	25	--	granodiorite (A)	2010 - EA Report
1031	DG 95-80-R	165	170	--	granodiorite (A)	2010 - EA Report
1044	DG 95-80-R	225	230	--	granodiorite (A)	2010 - EA Report
1172	DG 95-81-R	75	80	--	granodiorite (A)	2010 - EA Report
1213	DG 95-81-R	270	275	--	granodiorite (A)	2010 - EA Report
1491	DG 95-85-R	390	395	--	granodiorite (A)	2010 - EA Report
1644	DG 95-87-R	290	295	--	granodiorite (A)	2010 - EA Report
1662	DG 95-87-R	375	380	--	granodiorite (A)	2010 - EA Report
51511	DG 95-93-R	150	155	--	granodiorite (A)	2010 - EA Report
51584	DG 95-93-R	495	500	--	granodiorite (A)	2010 - EA Report
51979	DG 95-84-R	120	125	--	granodiorite (A)	2010 - EA Report
51990	DG 95-84-R	175	180	--	granodiorite (A)	2010 - EA Report
52249	DG 95-87-R	220	225	--	granodiorite (A)	2010 - EA Report
52251	DG 95-88-R	25	30	--	granodiorite (A)	2010 - EA Report
52265	DG 95-88-R	95	100	--	granodiorite (A)	2010 - EA Report
52491	ABA1	--	--	trench wall	granodiorite (A)	2010 - EA Report
52492	ABA2	--	--	trench wall	granodiorite (A)	2010 - EA Report
52496	ABA6	--	--	road cut	granodiorite (A)	2010 - EA Report
52499	ABA9	--	--	road cut	granodiorite (A)	2010 - EA Report
52608	DG 95-90-R	45	50	--	granodiorite (A)	2010 - EA Report
52623	DG 95-90-R	110	115	--	granodiorite (A)	2010 - EA Report
52642	DG 95-90-R	200	205	--	granodiorite (A)	2010 - EA Report
52946	DG 95-92-R	55	60	--	granodiorite (A)	2010 - EA Report
53229	DG 95-93-R	5	10	--	granodiorite (A)	2010 - EA Report
70792	DG 95-133-R	45	50	--	granodiorite (A)	2010 - EA Report
71036	DG 95-135-R	15	20	--	granodiorite (A)	2010 - EA Report
71058	DG 95-135-R	125	130	--	granodiorite (A)	2010 - EA Report
72867	DG 95-102-C	15	20	--	granodiorite (A)	2010 - EA Report
72893	DG 95-102-C	135	140	--	granodiorite (A)	2010 - EA Report
75461	DG 95-96-R	30	35	--	granodiorite (A)	2010 - EA Report
75616	DG 95-97-R	45	50	--	granodiorite (A)	2010 - EA Report
75765	DG 95-98-R	15	20	--	granodiorite (A)	2010 - EA Report
77006	DG 95-117-R	35	40	--	granodiorite (A)	2010 - EA Report
79452	ABA12	--	--	trench wall	granodiorite (A)	2010 - EA Report
79453	ABA13	--	--	cut bank	granodiorite (A)	2010 - EA Report
79456	ABA16	--	--	bank	granodiorite (A)	2010 - EA Report
79457	ABA17	--	--	trench wall	granodiorite (A)	2010 - EA Report
79458	ABA18	--	--	trench wall	granodiorite (A)	2010 - EA Report
79459	ABA19	--	--	trench wall	granodiorite (A)	2010 - EA Report
79461	ABA21	--	--	road cut	granodiorite (A)	2010 - EA Report
79464	ABA24	--	--	trench wall	granodiorite (A)	2010 - EA Report
KT-05	09BGC-GTH-02a	51	83	--	granodiorite (A)	2010 - EA Report
KT-06	09BGC-GTH-03	480	510	--	granodiorite (A)	2010 - EA Report
G019218	DG07-327C	81	111	--	oxidized granodiorite (with carbonate	2010 - EA Report
G019220	DG07-327C	181	216	--	oxidized granodiorite (with carbonate	2010 - EA Report
G019227	DG07-331C	302	337	--	oxidized granodiorite (with carbonate	2010 - EA Report
G019232	DG07-335C	338	373	--	oxidized granodiorite (with carbonate	2010 - EA Report
G019233	DG07-335C	568	598	--	oxidized granodiorite (with carbonate	2010 - EA Report
G019234	DG07-335C	648	680	--	oxidized granodiorite (with carbonate	2010 - EA Report
G019260	DG07-303C	210	243	--	oxidized granodiorite (with carbonate	2010 - EA Report
G019262	DG07-303C	60	79	--	oxidized granodiorite (with carbonate	2010 - EA Report
1083	DG 95-80-R	410	415	--	granodiorite (B)	2010 - EA Report
1112	DG 95-80-R	550	555	--	granodiorite (B)	2010 - EA Report
1143	DG 95-80-R	695	700	--	granodiorite (B)	2010 - EA Report
1299	DG 95-81-R	655	660	--	granodiorite (B)	2010 - EA Report
1342	DG 95-81-R	880	885	--	granodiorite (B)	2010 - EA Report
1399	DG 95-83-R	405	410	--	granodiorite (B)	2010 - EA Report
1441	DG 95-83-R	595	600	--	granodiorite (B)	2010 - EA Report
1457	DG 95-84-R	545	550	--	granodiorite (B)	2010 - EA Report

List of Static Testing Samples

Sample Number	Drill Hole	From (ft)	To (ft)	Source	Rock Type	Reporting
1496	DG 95-85-R	415	420	--	granodiorite (B)	2010 - EA Report
1555	DG 95-86-R	360	365	--	granodiorite (B)	2010 - EA Report
1694	DG 95-87-R	525	530	--	granodiorite (B)	2010 - EA Report
51816	DG 95-82-R	345	350	--	granodiorite (B)	2010 - EA Report
51920	DG 95-83-R	80	85	--	granodiorite (B)	2010 - EA Report
51944	DG 95-83-R	185	190	--	granodiorite (B)	2010 - EA Report
52162	DG 95-86-R	130	135	--	granodiorite (B)	2010 - EA Report
70756	DG 95-132-R	520	525	--	granodiorite (B)	2010 - EA Report
70935	DG 95-134-R	345	350	--	granodiorite (B)	2010 - EA Report
72903	DG 95-102-C	185	190	--	granodiorite (B)	2010 - EA Report
75492	DG 95-96-R	180	185	--	granodiorite (B)	2010 - EA Report
75565	DG 95-96-R	525	530	--	granodiorite (B)	2010 - EA Report
75998	DG 95-99-R	400	405	--	granodiorite (B)	2010 - EA Report
76948	DG 95-116-R	250	255	--	granodiorite (B)	2010 - EA Report
77366	DG 95-119-R	930	935	--	granodiorite (B)	2010 - EA Report
77479	DG 95-125-R	505	510	--	granodiorite (B)	2010 - EA Report
111085	96 - 154C	420	425	--	granodiorite	2010 - EA Report
111205	96 - 155C	450	455	--	granodiorite	2010 - EA Report
111485	96 - 157C	500	505	--	granodiorite	2010 - EA Report
112150	96 - 192C	50	55	--	granodiorite	2010 - EA Report
112447	96 - 193C	355	360	--	granodiorite	2010 - EA Report
111219	96 - 155C	515	520	--	granodiorite	2010 - EA Report
111367	96 - 156C	495	500	--	granodiorite	2010 - EA Report
111493	96 - 157C	535	540	--	granodiorite	2010 - EA Report
111511	96 - 157C	620	625	--	granodiorite	2010 - EA Report
111617	96 - 158C	395	400	--	granodiorite	2010 - EA Report
111624	96 - 158C	425	430	--	granodiorite	2010 - EA Report
111794	96 - 159C	640	645	--	granodiorite	2010 - EA Report
111804	96 - 159C	685	690	--	granodiorite	2010 - EA Report
111809	96 - 159C	705	710	--	granodiorite	2010 - EA Report
111955	96 - 160C	630	635	--	granodiorite	2010 - EA Report
111970	96 - 160C	700	705	--	granodiorite	2010 - EA Report
112127	96 - 191C	700	705	--	granodiorite	2010 - EA Report
112170	96 - 192C	140	145	--	granodiorite	2010 - EA Report
112235	96 - 192C	440	445	--	granodiorite	2010 - EA Report
112302	96 - 192C	750	755	--	granodiorite	2013 - WUL Report
120181	96 - 162R	360	365	--	granodiorite	2010 - EA Report
120280	96 - 163R	300	305	--	granodiorite	2010 - EA Report
120296	96 - 163R	370	375	--	granodiorite	2010 - EA Report
120384	96 - 164R	320	325	--	granodiorite	2010 - EA Report
120421	96 - 165R	60	65	--	granodiorite	2010 - EA Report
120481	96 - 165R	315	320	--	granodiorite	2010 - EA Report
120498	96 - 165R	390	395	--	granodiorite	2010 - EA Report
120647	96 - 166R	565	570	--	granodiorite	2010 - EA Report
120778	96 - 168R	30	35	--	granodiorite	2010 - EA Report
120822	96 - 168R	220	225	--	granodiorite	2010 - EA Report
120912	96 - 169R	245	250	--	granodiorite	2010 - EA Report
121149	96 - 170R	690	695	--	granodiorite	2010 - EA Report
121241	96 - 171R	385	390	--	granodiorite	2010 - EA Report
121369	96 - 172R	180	185	--	granodiorite	2010 - EA Report
121474	96 - 172R	630	635	--	granodiorite	2010 - EA Report
121495	96 - 172R	720	725	--	granodiorite	2010 - EA Report
121786	96 - 174R	525	530	--	granodiorite	2010 - EA Report
121939	96 - 175R	525	530	--	granodiorite	2010 - EA Report
121949	96 - 175R	565	570	--	granodiorite	2010 - EA Report
122253	96 - 179R	390	395	--	granodiorite	2010 - EA Report
122445	96 - 181R	415	420	--	granodiorite	2010 - EA Report
122626	96 - 184R	335	340	--	granodiorite	2010 - EA Report
122771	96 - 185R	615	620	--	granodiorite	2010 - EA Report
122785	96 - 185R	675	680	--	granodiorite	2010 - EA Report
122929	96 - 186R	590	595	--	granodiorite	2010 - EA Report
122959	96 - 186R	720	725	--	granodiorite	2010 - EA Report

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Sample Number	Drill Hole	From (ft)	To (ft)	Source	Rock Type	Reporting
122978	96 - 207R	295	300	--	granodiorite	2010 - EA Report
123317	96 - 189R	400	405	--	granodiorite	2010 - EA Report
123697	96 - 204R	250	255	--	granodiorite	2010 - EA Report
123777	96 - 205R	200	205	--	granodiorite	2010 - EA Report
123906	96 - 206R	260	265	--	granodiorite	2010 - EA Report
123964	96 - 207R	235	240	--	granodiorite	2010 - EA Report
111005	96 - 154C	50	55	--	granodiorite	2010 - EA Report
09BGC-GTH-02a Int. 269.44-280.11	09BGC-GTH-02a	884	919	--	granodiorite (B)	2013 - WUL Report
DG11-414C Int. 173.74-184.4	DG11-414C	570	605	--	granodiorite (B)	2013 - WUL Report
KT-03	09BGC-GTH-01	244	289	--	granodiorite (B)	2010 - EA Report
KT-04	09BGC-GTH-01	675	710	--	granodiorite (B)	2010 - EA Report
DG11-419C Int. 173.74-182.88	DG11-419C	570	600	--	coarse granodiorite (B)	2013 - WUL Report
DG11-417C Int. 163.07-173.74	DG11-417C	535	570	--	medium granodiorite	2013 - WUL Report
10BGC-GTH-05 Int. 118.9-123.9	10BGC-GTH-05	390	406	--	medium granodiorite (B)	2013 - WUL Report
G019205	DG05-308C	112	144	--	unaltered granodiorite - w or w/o carbonate, no sulphide (in veins)	2010 - EA Report
G019206	DG05-308C	164	197	--	unaltered granodiorite - w or w/o carbonate, no sulphide (in veins)	2010 - EA Report
G019221	DG07-327C	271	304	--	unaltered granodiorite - w or w/o carbonate, no sulphide (in veins)	2010 - EA Report
G019228	DG07-331C	347	379	--	unaltered granodiorite - w or w/o carbonate, no sulphide (in veins)	2010 - EA Report
G019229	DG07-331C	493	522	--	unaltered granodiorite - w or w/o carbonate, no sulphide (in veins)	2010 - EA Report
G019241	DG07-305C	370	403	--	unaltered granodiorite - w or w/o carbonate, no sulphide (in veins)	2010 - EA Report
G019242	DG07-305C	555	585	--	unaltered granodiorite - w or w/o carbonate, no sulphide (in veins)	2010 - EA Report
G019251	DG07-311C	428	461	--	unaltered granodiorite - w or w/o carbonate, no sulphide (in veins)	2010 - EA Report
10BGC-GTH-08 Int. 14.63-26.82	10BGC-GTH-08	48	88	--	hornfels (metasediment (A?))	2013 - WUL Report
11BGC-GTH-10 Int. 10.36-20.12	11BGC-GTH-10	34	66	--	hornfels (metasediment (A?))	2013 - WUL Report
DG11-417C Int. 24.38-35.05	DG11-417C	80	115	--	hornfels (metasediment (A?))	2013 - WUL Report
DG11-419C Int. 21.47-27.43	DG11-419C	70	90	--	hornfels (metasediment (A?))	2013 - WUL Report
DG11-419C Int. 37.72-42.1	DG11-419C	124	138	--	hornfels (metasediment (A?))	2013 - WUL Report
10BGC-GTH-06 Int. 158.16-168-83	10BGC-GTH-06	519	554	--	hornfels (metasediment (B))	2013 - WUL Report
11BGC-GTH-10 Int. 146.1-156.67	11BGC-GTH-10	479	514	--	hornfels (metasediment (B))	2013 - WUL Report
11BGC-GTH-10 Int. 49.35-59.95	11BGC-GTH-10	162	197	--	hornfels (metasediment (B))	2013 - WUL Report
11BGC-GTH-10 Int. 99.52-110.79	11BGC-GTH-10	327	363	--	hornfels (metasediment (B))	2013 - WUL Report
11BGC-GTH-12 Int. 120.78-130.91	11BGC-GTH-12	396	429	--	hornfels (metasediment (B))	2013 - WUL Report
11BGC-GTH-12 Int. 160.93-170.08	11BGC-GTH-12	528	558	--	hornfels (metasediment (B))	2013 - WUL Report
11BGC-GTH-12 Int. 192.94-202.08	11BGC-GTH-12	633	663	--	hornfels (metasediment (B))	2013 - WUL Report
11BGC-GTH-12 Int. 63.55-73.5	11BGC-GTH-12	208	241	--	hornfels (metasediment (B))	2013 - WUL Report
11BGC-GTH-12 Int. 99.97-110.11	11BGC-GTH-12	328	361	--	hornfels (metasediment (B))	2013 - WUL Report
DG11-414C Int. 62.48-73.15	DG11-414C	205	240	--	hornfels (metasediment (B))	2013 - WUL Report
DG11-414C Int. 73.15-82.3	DG11-414C	240	270	--	hornfels (metasediment (B))	2013 - WUL Report
11BGC-GTH10 Int. 146.1-156.67	--	479	514	--	hornfels (meta-sediment (B))	2013 - WUL Report
G019204	DG05-308C	89	112	--	hornfelsic metasedimentary	2010 - EA Report
G019208	DG05-308C	229	254	--	hornfelsic metasedimentary	2010 - EA Report
G019211	DG05-308C	305	328	--	hornfelsic metasedimentary	2010 - EA Report
G019215	DG05-308C	420	434	--	hornfelsic metasedimentary	2010 - EA Report
G019236	DG07-305C	5	30	--	hornfelsic metasedimentary	2010 - EA Report
G019237	DG07-305C	30	60	--	hornfelsic metasedimentary	2010 - EA Report
G019239	DG07-305C	223	255	--	hornfelsic metasedimentary	2010 - EA Report
G019240	DG07-305C	270	303	--	hornfelsic metasedimentary	2010 - EA Report
51752	DG 95-82-R	45	50	--	metasediment (B)	2010 - EA Report
51754	DG 95-82-R	55	60	--	metasediment (B)	2010 - EA Report
52066	DG 95-85-R	5	10	--	metasediment (B)	2010 - EA Report
52084	DG 95-85-R	95	100	--	metasediment (B)	2010 - EA Report
52106	DG 95-85-R	195	200	--	metasediment (B)	2010 - EA Report
52139	DG 95-86-R	20	25	--	metasediment (B)	2010 - EA Report
52154	DG 95-86-R	95	100	--	metasediment (B)	2010 - EA Report

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Sample Number	Drill Hole	From (ft)	To (ft)	Source	Rock Type	Reporting
52198	DG 95-86-R	295	300	--	metasediment (B)	2010 - EA Report
52207	DG 95-87-R	20	25	--	metasediment (B)	2010 - EA Report
52218	DG 95-87-R	75	80	--	metasediment (B)	2010 - EA Report
52493	ABA3	--	--	trench wall	metasediment (B)	2010 - EA Report
52494	ABA4	--	--	trench wall	metasediment (B)	2010 - EA Report
52495	ABA5	--	--	trench wall	metasediment (B)	2010 - EA Report
52497	ABA7	--	--	road cut	metasediment (B)	2010 - EA Report
52498	ABA8	--	--	road cut	metasediment (B)	2010 - EA Report
52500	ABA10	--	--	trench wall	metasediment (B)	2010 - EA Report
70869	DG 95-134-R	20	25	--	metasediment (B)	2010 - EA Report
70902	DG 95-134-R	180	185	--	metasediment (B)	2010 - EA Report
70928	DG 95-134-R	310	315	--	metasediment (B)	2010 - EA Report
72877	DG 95-102-C	60	65	--	metasediment (B)	2010 - EA Report
72885	DG 95-102-C	100	105	--	metasediment (B)	2010 - EA Report
72910	DG 95-102-C	215	220	--	metasediment (B)	2010 - EA Report
75920	DG 95-99-R	30	35	--	metasediment (B)	2010 - EA Report
75946	DG 95-99-R	155	160	--	metasediment (B)	2010 - EA Report
77175	DG 95-119-R	20	25	--	metasediment (B)	2010 - EA Report
77178	DG 95-119-R	35	40	--	metasediment (B)	2010 - EA Report
77223	DG 95-119-R	250	255	--	metasediment (B)	2010 - EA Report
77383	DG 95-125-R	50	55	--	metasediment (B)	2010 - EA Report
77406	DG 95-125-R	160	165	--	metasediment (B)	2010 - EA Report
78402	DG 95-132-R	10	15	--	metasediment (B)	2010 - EA Report
78449	DG 95-132-R	240	245	--	metasediment (B)	2010 - EA Report
78471	DG 95-132-R	520	525	--	metasediment (B)	2010 - EA Report
79451	ABA11	--	--	road/trench cut wall	metasediment (B)	2010 - EA Report
79454	ABA14	--	--	out-crop at end of road	metasediment (B)	2010 - EA Report
79455	ABA15	--	--	cut bank	metasediment (B)	2010 - EA Report
79460	ABA20	--	--	top of trench	metasediment (B)	2010 - EA Report
79462	ABA22	--	--	trench wall	metasediment (B)	2010 - EA Report
79463	ABA23	--	--	road cut	metasediment (B)	2010 - EA Report
111270	96 - 156C	50	55	--	metasediment	2010 - EA Report
111554	96 - 158C	105	110	--	metasediment	2010 - EA Report
111662	96 - 159C	30	35	--	metasediment	2010 - EA Report
111833	96 - 160C	70	75	--	metasediment	2010 - EA Report
111996	96 - 191C	100	105	--	metasediment	2010 - EA Report
111310	96 - 156C	235	240	--	metasediment	2010 - EA Report
111577	96 - 158C	210	215	--	metasediment	2010 - EA Report
111702	96 - 159C	215	220	--	metasediment	2010 - EA Report
112462	96 - 193C	425	430	--	metasediment	2010 - EA Report
120109	96 - 162R	50	55	--	metasediment	2010 - EA Report
120119	96 - 162R	95	100	--	metasediment	2010 - EA Report
120224	96 - 163R	55	60	--	metasediment	2010 - EA Report
120314	96 - 164R	25	30	--	metasediment	2010 - EA Report
120680	96 - 167R	55	60	--	metasediment	2010 - EA Report
120878	96 - 169R	100	105	--	metasediment	2010 - EA Report
121036	96 - 170R	210	215	--	metasediment	2010 - EA Report
121174	96 - 171R	100	105	--	metasediment	2010 - EA Report
121207	96 - 171R	240	245	--	metasediment	2010 - EA Report
121527	96 - 173R	40	45	--	metasediment	2010 - EA Report
121827	96 - 175R	50	55	--	metasediment	2010 - EA Report
121954	96 - 175R	590	595	--	metasediment	2010 - EA Report
122008	96 - 176R	220	225	--	metasediment	2010 - EA Report
122109	96 - 178R	40	45	--	metasediment	2010 - EA Report
123238	96 - 189R	65	70	--	metasediment	2010 - EA Report
KT-01	09BGC-GTH-04	628	660	--	metasediment (B)	2010 - EA Report
KT-02	09BGC-GTH-04	773	808	--	metasediment (B)	2010 - EA Report
ST-01	09BGC-GTH-03	152	170	--	metasediment (B)	2010 - EA Report
ST-02	09BGC-GTH-03	170	190	--	metasediment (B)	2010 - EA Report
ST-03	09BGC-GTH-03	190	210	--	metasediment (B)	2010 - EA Report
ST-04	09BGC-GTH-03	210	230	--	metasediment (B)	2010 - EA Report
ST-05	09BGC-GTH-03	230	250	--	metasediment (B)	2010 - EA Report

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Sample Number	Drill Hole	From (ft)	To (ft)	Source	Rock Type	Reporting
ST-06	09BGC-GTH-03	250	270	--	metasediment (B)	2010 - EA Report
ST-07	09BGC-GTH-03	270	548	--	metasediment (B)	2010 - EA Report
ST-08	09BGC-GTH-04	548	568	--	metasediment (B)	2010 - EA Report
ST-09	09BGC-GTH-04	568	587	--	metasediment (B)	2010 - EA Report
ST-10	09BGC-GTH-04	587	606	--	metasediment (B)	2010 - EA Report
ST-11	09BGC-GTH-04	606	628	--	metasediment (B)	2010 - EA Report
ST-12	09BGC-GTH-04	660	679	--	metasediment (B)	2010 - EA Report
ST-13	09BGC-GTH-04	679	703	--	metasediment (B)	2010 - EA Report
ST-14	09BGC-GTH-04	703	738	--	metasediment (B)	2010 - EA Report
ST-15	09BGC-GTH-04	738	753	--	metasediment (B)	2010 - EA Report
ST-16	09BGC-GTH-04	753	773	--	metasediment (B)	2010 - EA Report
ST-17	09BGC-GTH-04	808	863	--	metasediment (B)	2010 - EA Report
ST-18	09BGC-GTH-04	863	883	--	metasediment (B)	2010 - EA Report
ST-19	09BGC-GTH-04	883	903	--	metasediment (B)	2010 - EA Report
ST-20	09BGC-GTH-04	903	923	--	metasediment (B)	2010 - EA Report
G019202	DG05-308C	40	52	--	metasedimentary	2010 - EA Report
G019216	DG07-327C	8	41	--	metasedimentary	2010 - EA Report
G019224	DG07-331C	42	75	--	metasedimentary	2010 - EA Report
G019225	DG07-331C	174	204	--	metasedimentary	2010 - EA Report
G019226	DG07-331C	242	272	--	metasedimentary	2010 - EA Report
G019231	DG07-335C	163	193	--	metasedimentary	2010 - EA Report
G019244	DG07-311C	50	69	--	metasedimentary	2010 - EA Report
G019247	DG07-311C	204	238	--	metasedimentary	2010 - EA Report
09BGC-GTH-02a Int. 51.88-59.5	09BGC-GTH-02a	170	195	--	sediments (metasediment (B))	2013 - WUL Report
09BGC-GTH-02a Int.7 2.29-77.47	09BGC-GTH-02a	237	254	--	sediments (metasediment (B))	2013 - WUL Report
DG12-BRL-01	DG10-370c 0-83 (PHYLLITE) + DG11-427C 0-44 (PHYLLITE/QUARTZITE/HORNFELS)	--	--	FB split	metasediment (A)	2013 - WUL Report
DG12-BRL-02	DG10-367C 50-115 + 11BGC-GTH-12 75-145	--	--	FB split	metasediment (B)	2013 - WUL Report
DG12-BRL-03	09BGC-GTH-03 46 to 89; 10 BGC-06 GTH- 0 to 82; 11BGC-GTH-11 0 to 123	--	--	FB split	metasediment (A) & (B)	2013 - WUL Report
DG12-BRL-04	DG11-418C 0 to 60; DG11-414C 0 to 54; DG11-411C 0 to 58	--	--	FB split	granodiorite (A)	2013 - WUL Report
DG12-BRL-05	DG10-367C 116-144 + DG10-370C 84-112	--	--	FB split	granodiorite (B)	2013 - WUL Report
DG12-BRL-06	DG11-412C 150-199 + DG11-413C 139-201	--	--	FB split	granodiorite (C)	2013 - WUL Report
DG12-BRL-07	DG11-415C 140-201 + 10BGC-GTH-06 25-75	--	--	FB split	granodiorite (A) & (B)	2013 - WUL Report
DG12-BRL-08	DG09-364C 0 to 60; DG09-365C 0 to 90; DG10-367C 0 to 50; DG10-369C 0 to 25; DG10-405C 0 to 29; DG10-406C 0 to 44	--	--	FB split	overburden	2013 - WUL Report
TP-BGC11-130-G1	--	--	--	Plant Site	colluvium (metaseds)	2013 Excavation Areas and Borrow Source Repor
BH-BGC11-69 SA1	--	--	--	Plant Site	colluvium (weathered metaseds)	2013 Excavation Areas and Borrow Source Repor
BH-BGC11-62 SA1	--	--	--	primary/secondary crusher	colluvium (metaseds and intrusives)	2013 Excavation Areas and Borrow Source Repor
TP-BGC11-50 SA2	--	--	--	primary/secondary crusher	colluvium (metaseds and intrusives)	2013 Excavation Areas and Borrow Source Repor
TP-BGC11-62 SA1	--	--	--	primary/secondary crusher	rock (metaseds and intrusives)	2013 Excavation Areas and Borrow Source Repor
BH-BGC11-44-S3	--	--	--	Silt Borrow Area	silt and placer tailings	2013 Excavation Areas and Borrow Source Repor
BH-BGC11-51-G10	--	--	--	Silt Borrow Area	silt and placer tailings	2013 Excavation Areas and Borrow Source Repor
BH-BGC11-56-SPT1	--	--	--	Truck Shop and Haul Road to Open Pit	colluvium (metaseds)	2013 Excavation Areas and Borrow Source Report
BH-BGC11-57-SPT3	--	--	--	Truck Shop and Haul Road to Open Pit	colluvium (metaseds)	2013 Excavation Areas and Borrow Source Report
BH-BGC11-40A-1	--	--	--	100 day storage	colluvium (metaseds and intrusives)	2013 Excavation Areas and Borrow Source Repor
BH-BGC11-40B SA1	--	--	--	100 day storage	colluvium (metaseds and intrusives)	2013 Excavation Areas and Borrow Source Repor
TP-BGC11-126-G1	--	--	--	100 day storage	colluvium (metaseds and intrusives)	2013 Excavation Areas and Borrow Source Repor
TP-BGC11-63 SA1	--	--	--	100 day storage	colluvium (metaseds and intrusives)	2013 Excavation Areas and Borrow Source Repor
TP-BGC11-64 SA1	--	--	--	100 day storage	colluvium (metaseds and intrusives)	2013 Excavation Areas and Borrow Source Repor
RC12-EG-10	--	--	--	road cut	Eagle Zone	2013 Excavation Areas and Borrow Source Repor
RC12-EG-11	--	--	--	road cut	Eagle Zone	2013 Excavation Areas and Borrow Source Repor
RC12-EG-12	--	--	--	road cut	Eagle Zone	2013 Excavation Areas and Borrow Source Repor
RC12-EG-13	--	--	--	road cut	Eagle Zone	2013 Excavation Areas and Borrow Source Repor
RC12-EG-14	--	--	--	road cut	Eagle Zone	2013 Excavation Areas and Borrow Source Repor
RC12-EG-15	--	--	--	road cut	Eagle Zone	2013 Excavation Areas and Borrow Source Repor
RC12-EG-16	--	--	--	road cut	Eagle Zone	2013 Excavation Areas and Borrow Source Repor
RC12-EG-27	--	--	--	road cut	Eagle Zone	2013 Excavation Areas and Borrow Source Repor

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Sample Number	Drill Hole	From (ft)	To (ft)	Source	Rock Type	Reporting
RC12-EG-28	--	--	--	road cut	Eagle Zone	2013 Excavation Areas and Borrow Source Repor
RC12-EG-29	--	--	--	road cut	Eagle Zone	2013 Excavation Areas and Borrow Source Repor
RC12-EG-30	--	--	--	road cut	Eagle Zone	2013 Excavation Areas and Borrow Source Repor
RC12-EG-7	--	--	--	road cut	Eagle Zone	2013 Excavation Areas and Borrow Source Repor
RC12-EG-8	--	--	--	road cut	Eagle Zone	2013 Excavation Areas and Borrow Source Repor
RC12-EG-9	--	--	--	road cut	Eagle Zone	2013 Excavation Areas and Borrow Source Repor
RC11-PL-20	--	--	--	road cut	Platinum Zone	2013 Excavation Areas and Borrow Source Repor
RC12-PL-17	--	--	--	road cut	Platinum Zone	2013 Excavation Areas and Borrow Source Repor
RC12-PL-18	--	--	--	road cut	Platinum Zone	2013 Excavation Areas and Borrow Source Repor
RC12-PL-19	--	--	--	road cut	Platinum Zone	2013 Excavation Areas and Borrow Source Repor
RC12-PL-21	--	--	--	road cut	Platinum Zone	2013 Excavation Areas and Borrow Source Repor
RC12-PL-22	--	--	--	road cut	Platinum Zone	2013 Excavation Areas and Borrow Source Repor
RC12-PL-23	--	--	--	road cut	Platinum Zone	2013 Excavation Areas and Borrow Source Repor
RC12-PL-24	--	--	--	road cut	Platinum Zone	2013 Excavation Areas and Borrow Source Repor
RC12-PL-25	--	--	--	road cut	Platinum Zone	2013 Excavation Areas and Borrow Source Repor
RC12-PL-26	--	--	--	road cut	Platinum Zone	2013 Excavation Areas and Borrow Source Repor
RC12-PL-31	--	--	--	road cut	Platinum Zone	2013 Excavation Areas and Borrow Source Repor
RC12-PL-32	--	--	--	road cut	Platinum Zone	2013 Excavation Areas and Borrow Source Repor
RC12-TD-1	--	--	--	road cut	Tin Dome	2013 Excavation Areas and Borrow Source Repor
RC12-TD-2	--	--	--	road cut	Tin Dome	2013 Excavation Areas and Borrow Source Repor
RC12-TD-3	--	--	--	road cut	Tin Dome	2013 Excavation Areas and Borrow Source Repor
RC12-TD-4	--	--	--	road cut	Tin Dome	2013 Excavation Areas and Borrow Source Repor
RC12-TD-5	--	--	--	road cut	Tin Dome	2013 Excavation Areas and Borrow Source Repor
RC12-TD-6	--	--	--	road cut	Tin Dome	2013 Excavation Areas and Borrow Source Repor
TP-BGC11-34 SA1	--	--	--	Dublin Gulch Diversior	metasedimentary	2013 Excavation Areas and Borrow Source Repor
TP-BGC11-104-G1	--	--	--	Dublin Gulch Diversior	placer tailings	2013 Excavation Areas and Borrow Source Repor
TP-BGC11-121-G1	--	--	--	Dublin Gulch Diversior	placer tailings	2013 Excavation Areas and Borrow Source Repor
TP-BGC11-92 SA1	--	--	--	Dublin Gulch Diversior	placer tailings	2013 Excavation Areas and Borrow Source Repor
DG-PL12-01	--	--	--	Dublin Gulch placer tailings	Placer Tailings	2013 Excavation Areas and Borrow Source Repor
DG-PL12-02	--	--	--	Dublin Gulch placer tailings	Placer Tailings	2013 Excavation Areas and Borrow Source Repor
DG-PL12-03	--	--	--	Dublin Gulch placer tailings	Placer Tailings	2013 Excavation Areas and Borrow Source Repor
DG-PL12-04	--	--	--	Dublin Gulch placer tailings	Placer Tailings	2013 Excavation Areas and Borrow Source Repor
DG-PL12-05	--	--	--	Dublin Gulch placer tailings	Placer Tailings	2013 Excavation Areas and Borrow Source Repor
DG-PL12-06	--	--	--	Dublin Gulch placer tailings	Placer Tailings	2013 Excavation Areas and Borrow Source Repor
DG-PL12-07	--	--	--	Dublin Gulch placer tailings	Placer Tailings	2013 Excavation Areas and Borrow Source Repor
DG-PL12-08	--	--	--	Dublin Gulch placer tailings	Placer Tailings	2013 Excavation Areas and Borrow Source Repor
DG-PL12-09	--	--	--	Dublin Gulch placer tailings	Placer Tailings	2013 Excavation Areas and Borrow Source Repor
BH-BGC11-39-11	--	--	--	Dublin Gulch placer tailings	sand and gravel (metaseds)	2013 Excavation Areas and Borrow Source Repor
BH-BGC11-39-8	--	--	--	Dublin Gulch placer tailings	sand and gravel (metaseds)	2013 Excavation Areas and Borrow Source Repor
BH-BGC11-53-G3	--	--	--	Dublin Gulch placer tailings	sand and gravel (metaseds)	2013 Excavation Areas and Borrow Source Repor
BH-BGC11-53-G8	--	--	--	Dublin Gulch placer tailings	sand and gravel (metaseds)	2013 Excavation Areas and Borrow Source Repor
BH-BGC11-55-G5	--	--	--	Dublin Gulch placer tailings	sand and gravel (metaseds)	2013 Excavation Areas and Borrow Source Repor
BH-BGC11-65-SPT1	--	--	--	Dublin Gulch placer tailings	sand and gravel (metaseds)	2013 Excavation Areas and Borrow Source Repor
BH-BGC11-65-SPT8	--	--	--	Dublin Gulch placer tailings	sand and gravel (metaseds)	2013 Excavation Areas and Borrow Source Repor
DG-PL12-10	--	--	--	Haggart Creek	Placer Tailings	2013 Excavation Areas and Borrow Source Repor
DG-PL12-11	--	--	--	Haggart Creek	Placer Tailings	2013 Excavation Areas and Borrow Source Repor
DG-PL12-12	--	--	--	Haggart Creek	Placer Tailings	2013 Excavation Areas and Borrow Source Repor
DG-PL12-13	--	--	--	Haggart Creek	Placer Tailings	2013 Excavation Areas and Borrow Source Repor
DG-PL12-14	--	--	--	Haggart Creek	Placer Tailings	2013 Excavation Areas and Borrow Source Repor
DG-PL12-15	--	--	--	Haggart Creek	Placer Tailings	2013 Excavation Areas and Borrow Source Repor

Appendix A2: Deposit Area Plan and Cross Sections Showing Sample Intervals for ML/ARD Characterization

459620 E
459720 E
459820 E
459920 E
460020 E
460120 E
460220 E
460320 E
460420 E

7099800.0Y
7099700 N
7099600.0Y
7099600 N
7099500 N
7099400.0Y
7099400 N
7099300 N
7099200.0Y

N

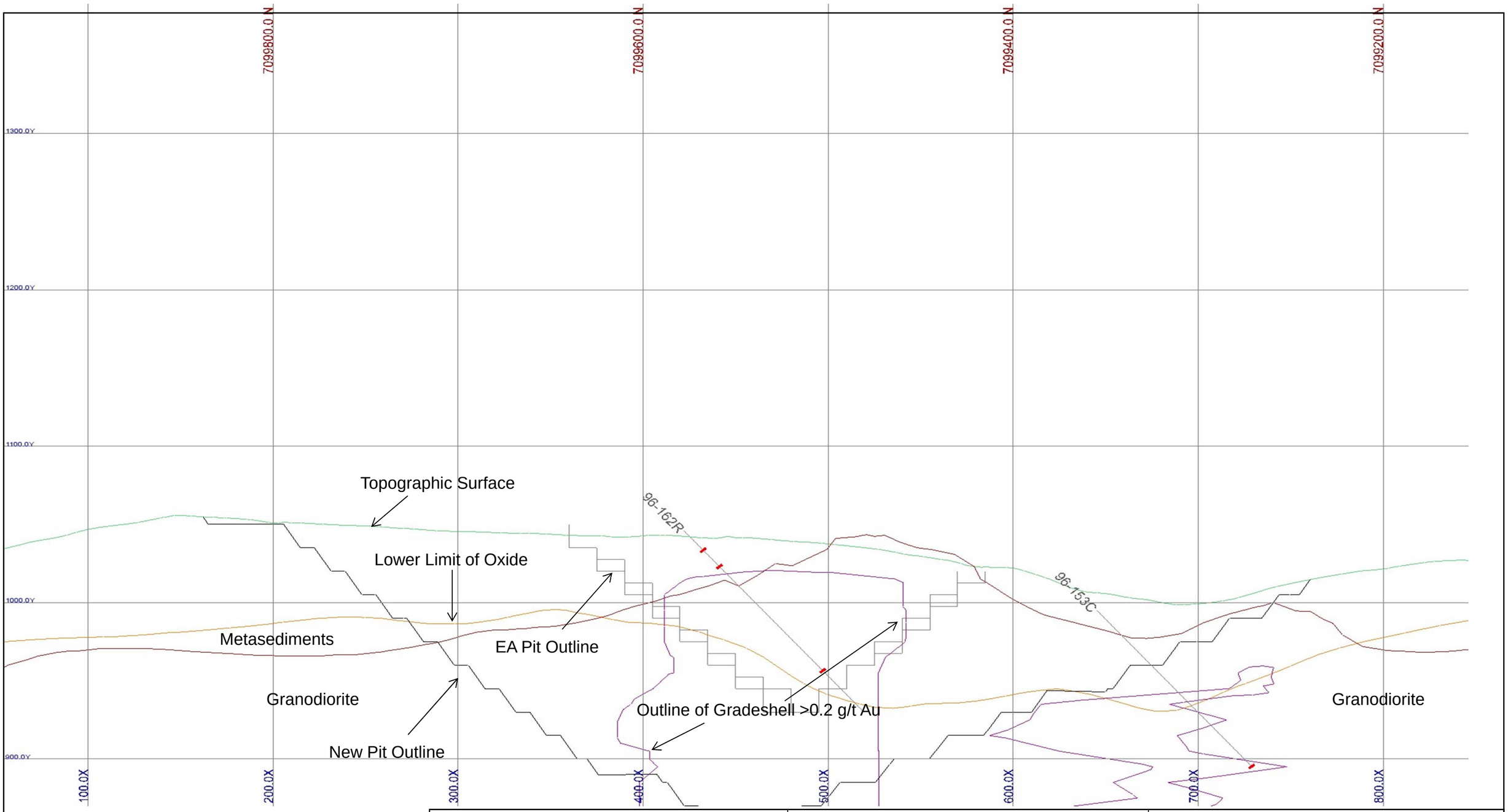
Footprint of EA Pit

Footprint of New Pit

LEGEND

- Drill hole interval sampled for static testing
- Drill hole trace

srk consulting	Victoria GOLD CORP	Geochemical Characterization	
Job No: 1CV004.000 Filename: Figure A1_Plan_20101122.ppt	**Eagle Gold Project**	Plan of deposit area showing pit outline and drillhole traces with geochemical sample intervals	
		Date: June 2012	Approved: KSS	Figure: **1**



LEGEND

- EA Sample Interval
- Supplemental Sample Interval

srk consulting

Job No: 1CV004.000
Filename: Eagle_ABA_CrossSections_jun2012.pptx

Victoria GOLD CORP

Eagle Gold Project

Geochemical Characterization

Cross Section 459620 E
Showing Sample intervals for ML/ARD Characterization

Date:	Approved:	Figure:
June 2012	KSS	**2**

7099800.0 N

7099600.0 N

7099400.0 N

7099200.0 N

1300.0Y

1200.0Y

1100.0Y

1000.0Y

900.0Y

100.0X

200.0X

300.0X

400.0X

500.0X

600.0X

700.0X

800.0X

Topographic Surface

Lower Limit of Oxide

Metasediments

Granodiorite

EA Pit Outline

Outline of Gradeshell >0.2 g/t Au

New Pit Outline

Granodiorite

96-156C

10BGC-GTH-05

96-163R

96-164R

96-135R

96-154

96-155C

96-207R

LEGEND

EA Sample Interval

Supplemental Sample Interval

srk consulting

Job No: 1CV004.000

Filename: Eagle_ABA_CrossSections_jun2012.pptx

Victoria GOLD CORP

Eagle Gold Project

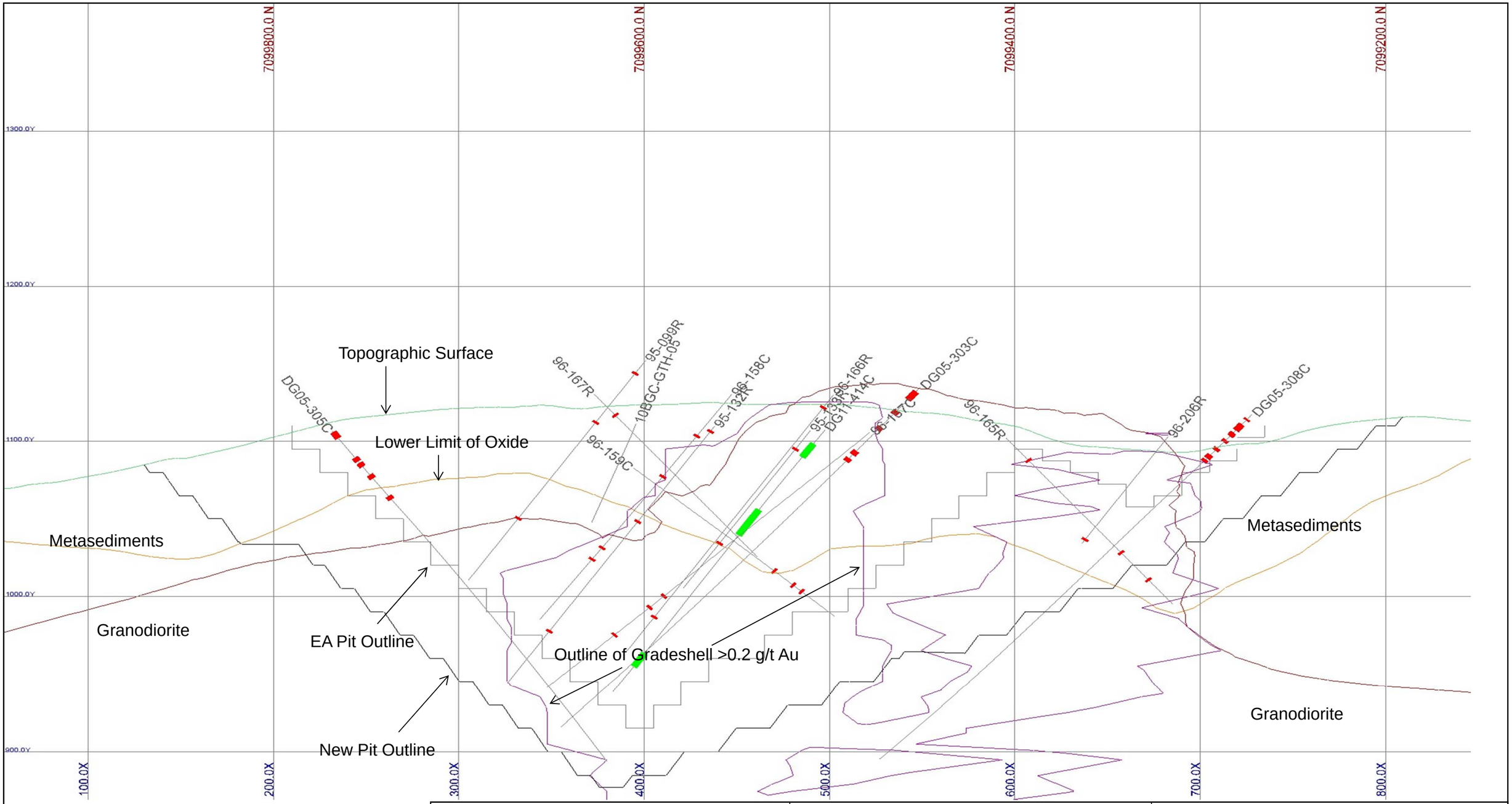
Geochemical Characterization

Cross Section 459720 E
Showing Sample intervals for ML/ARD Characterization

Date: June 2012

Approved: KSS

Figure: **3**



LEGEND

- EA Sample Interval
- Supplemental Sample Interval

srk consulting

Job No: 1CV004.000
Filename: Eagle_ABA_CrossSections_jun2012.pptx

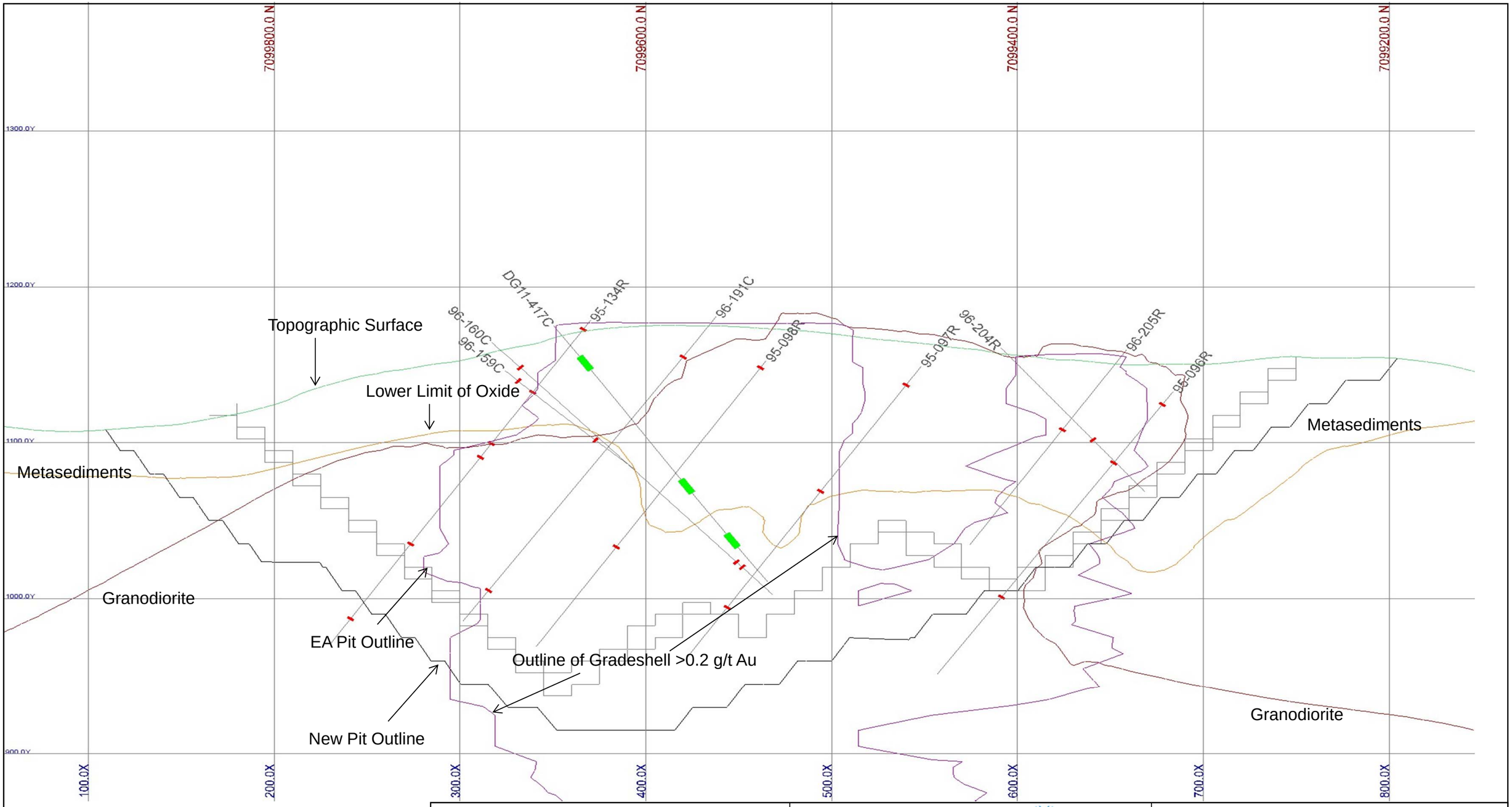
Victoria GOLD CORP

Eagle Gold Project

Geochemical Characterization

Cross Section 459820 E
Showing Sample intervals for ML/ARD Characterization

Date:	Approved:	Figure:
June 2012	KSS	**4**



LEGEND

- EA Sample Interval
- Supplemental Sample Interval

srk consulting

Victoria GOLD CORP

Job No: 1CS004.000

Filename: Eagle_ABA_CrossSections_jun2012.pptx

Eagle Gold Project

Geochemical Characterization

Cross Section 459920 E
Showing Sample intervals for ML/ARD Characterization

Date:	Approved:	Figure:
June 2012	KSS	**5**

7099800.0 N
7099600.0 N
7099400.0 N
7099200.0 N
1300.0Y
1200.0Y
1100.0Y
1000.0Y
900.0Y
100.0X
200.0X
300.0X
400.0X
500.0X
600.0X
700.0X
800.0X
09BGC-GTH-03
95-119R
DG11-419C
95-125R
96-171R
96-172R
96-173R
95-092R
96-174R
95-090R
95-093R
DG07-335C
DG06-311C
Topographic Surface
Lower Limit of Oxide
Metasediments
Granodiorite
EA Pit Outline
New Pit Outline
Outline of Gradeshell >0.2 g/t Au
Metasediments
Granodiorite

LEGEND

EA Sample Interval

Supplemental Sample Interval

srk consulting

Victoria GOLD CORP

Job No: 1CV004.000

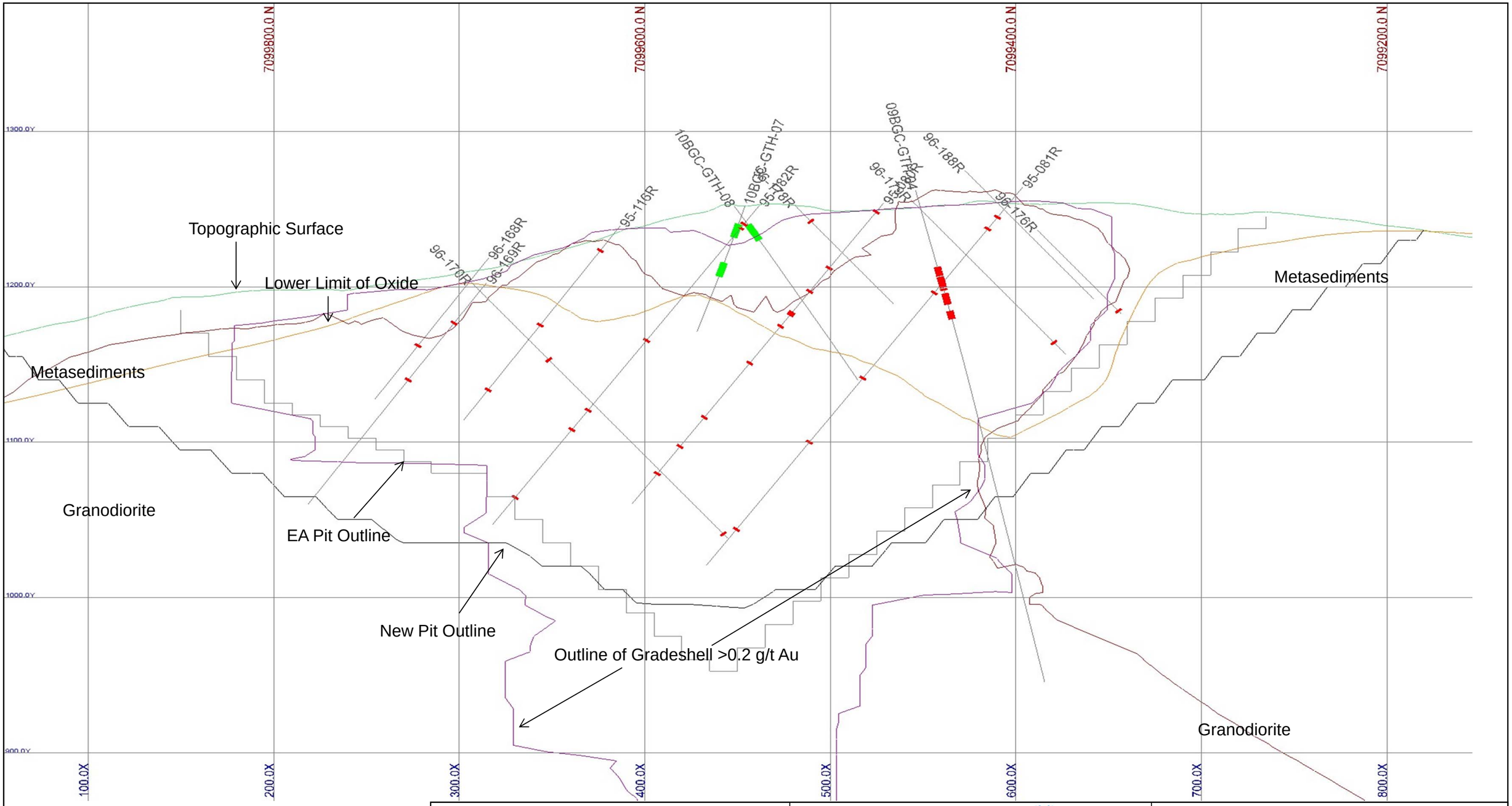
Filename: Eagle_ABA_CrossSections_jun2012.pptx

Eagle Gold Project

Geochemical Characterization

Cross Section 460020 E
Showing Sample intervals for ML/ARD Characterization

Date:	Approved:	Figure:
June 2012	KSS	**6**



LEGEND

- EA Sample Interval
- Supplemental Sample Interval

srk consulting

Job No: 1CV004.000
Filename: Eagle_ABA_CrossSections_jun2012.pptx

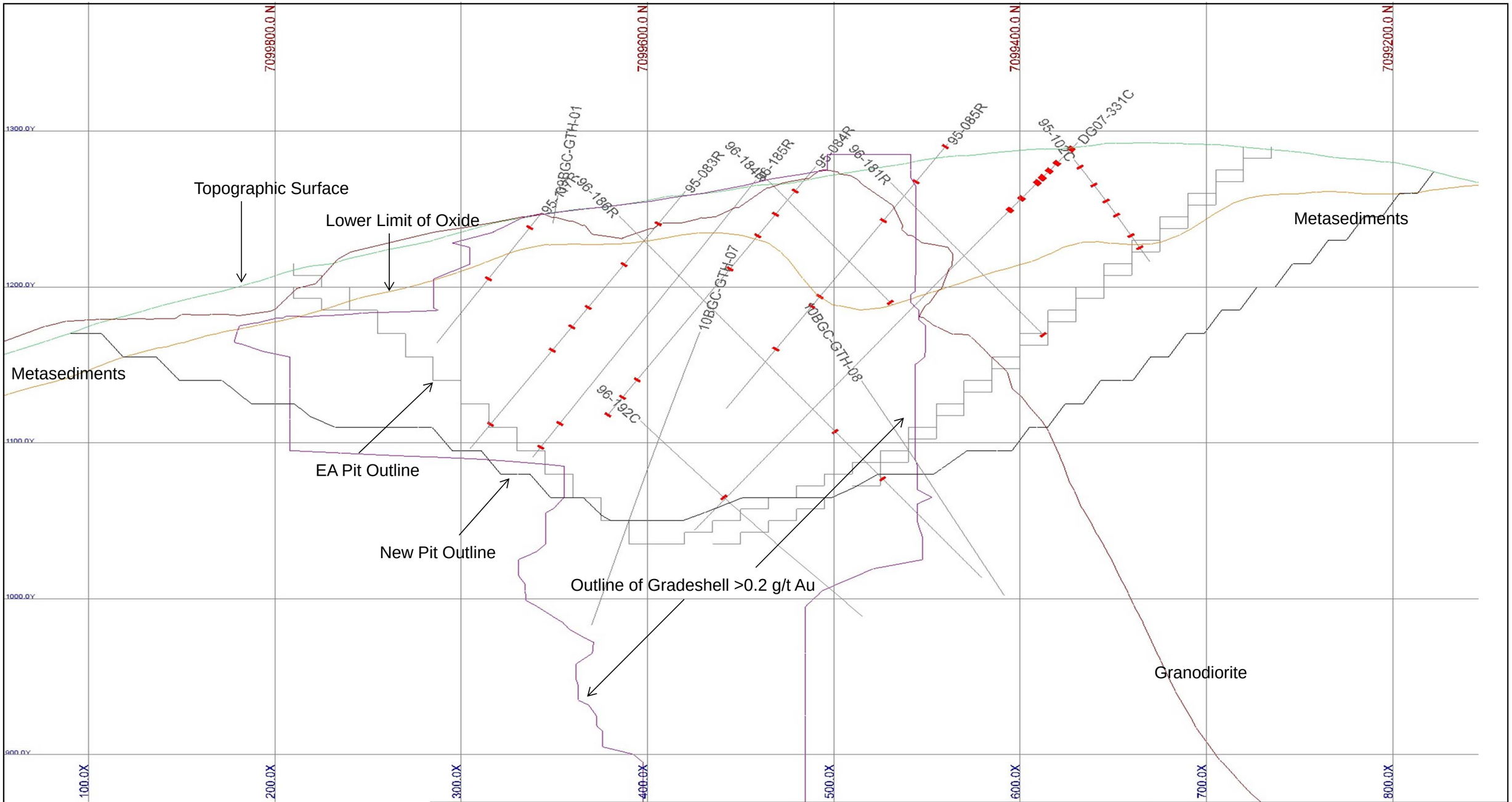
Victoria GOLD CORP

Eagle Gold Project

Geochemical Characterization

Cross Section 460120 E
Showing Sample intervals for ML/ARD Characterization

Date:	Approved:	Figure:
June 2012	KSS	**7**



LEGEND

- EA Sample Interval
- Supplemental Sample Interval

srk consulting

Job No: 1CV004.000

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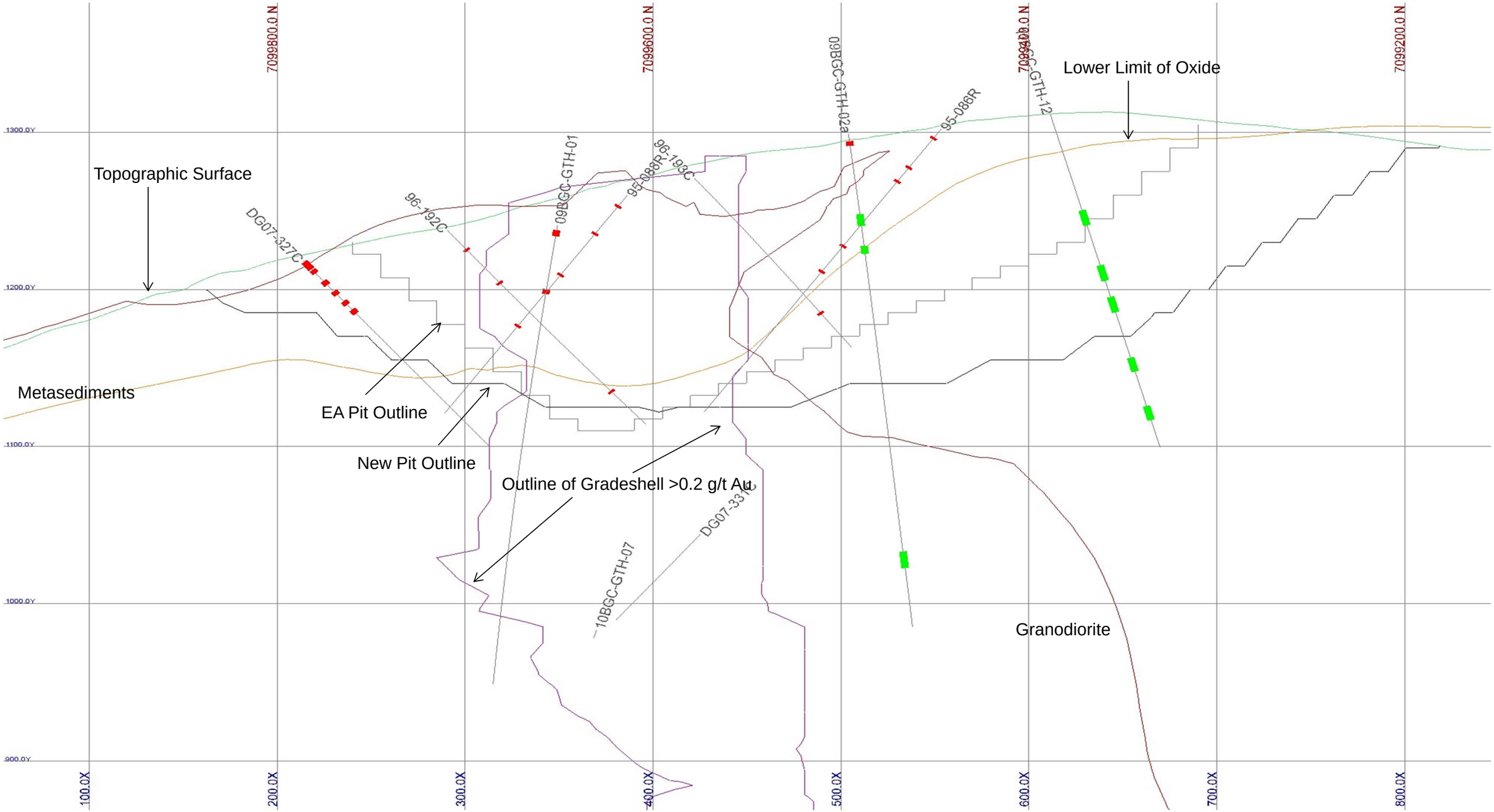
Victoria GOLD CORP

Eagle Gold Project

Geochemical Characterization

Cross Section 460220 E
Showing Sample intervals for ML/ARD Characterization

Date:	Approved:	Figure:
June 2012	KSS	**8**



LEGEND

- EA Sample Interval
- Supplemental Sample Interval

srk consulting

Job No: 1CV004.000

Filename: Eagle_ABA_CrossSections_jun2012.pptx

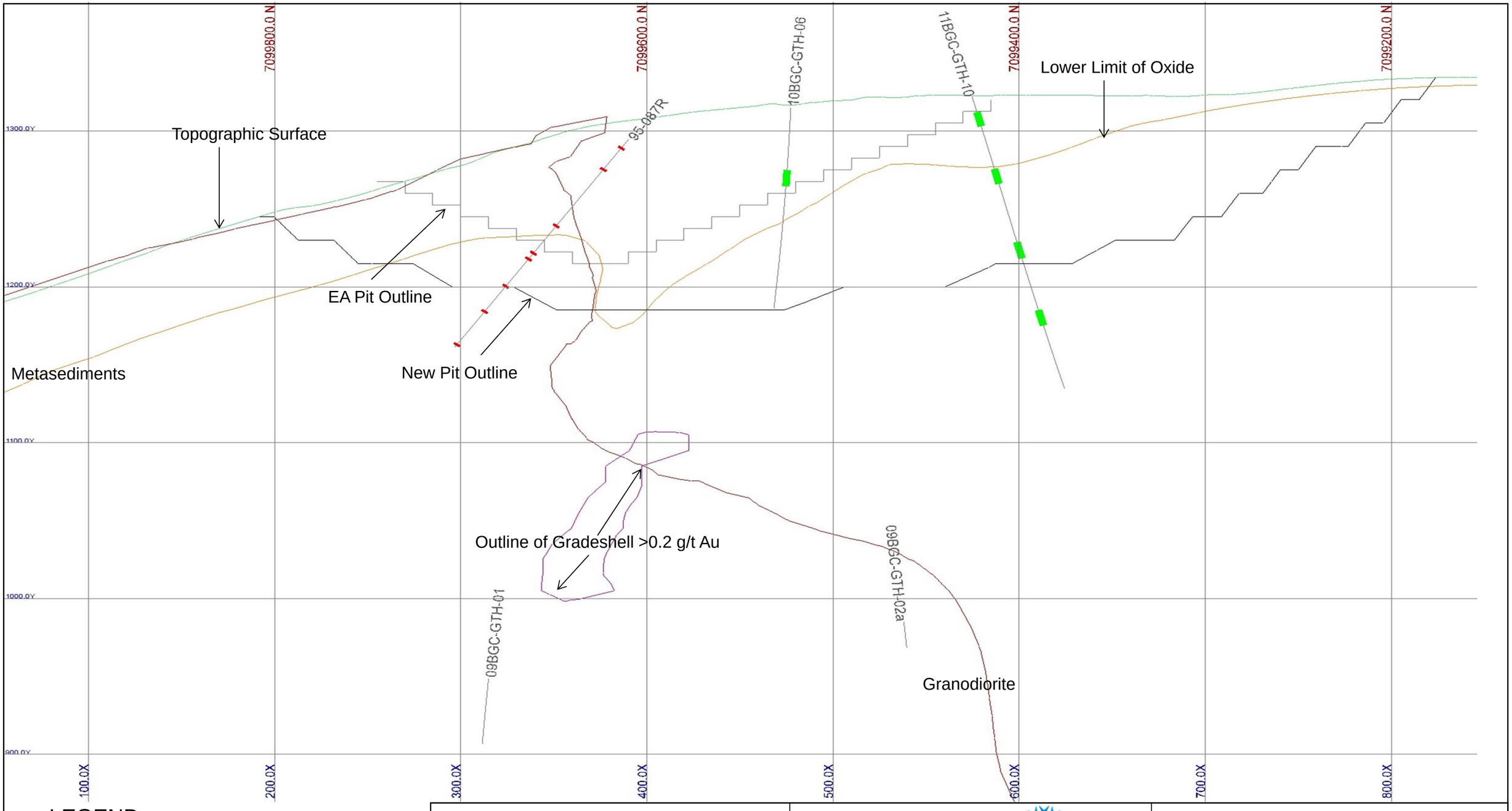
Victoria GOLD CORP

Eagle Gold Project

Geochemical Characterization

Cross Section 460320 E
Showing Sample intervals for ML/ARD Characterization

Date:	Approved:	Figure:
June 2012	KSS	**9**



LEGEND

EA Sample Interval

Supplemental Sample Interval

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Victoria GOLD CORP

Job No: 1CV004.000

Filename: Eagle_ABA_CrossSections_jun2012.pptx

Eagle Gold Project

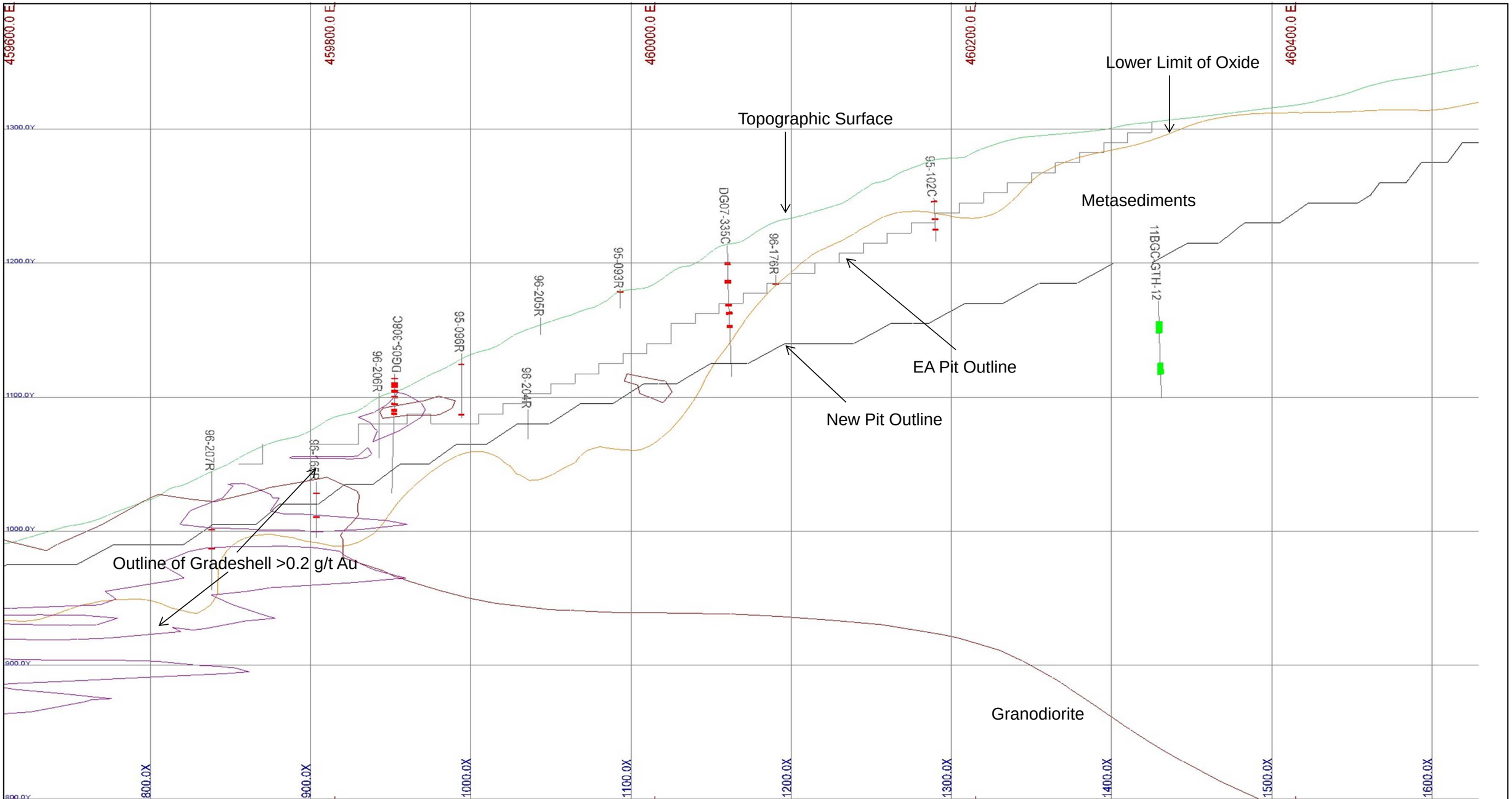
Geochemical Characterization

Cross Section 460420 E
Showing Sample intervals for ML/ARD Characterization

Date: June 2012

Approved: KSS

Figure: **10**



LEGEND

- EA Sample Interval
- Supplemental Sample Interval

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Job No: 1CV004.000

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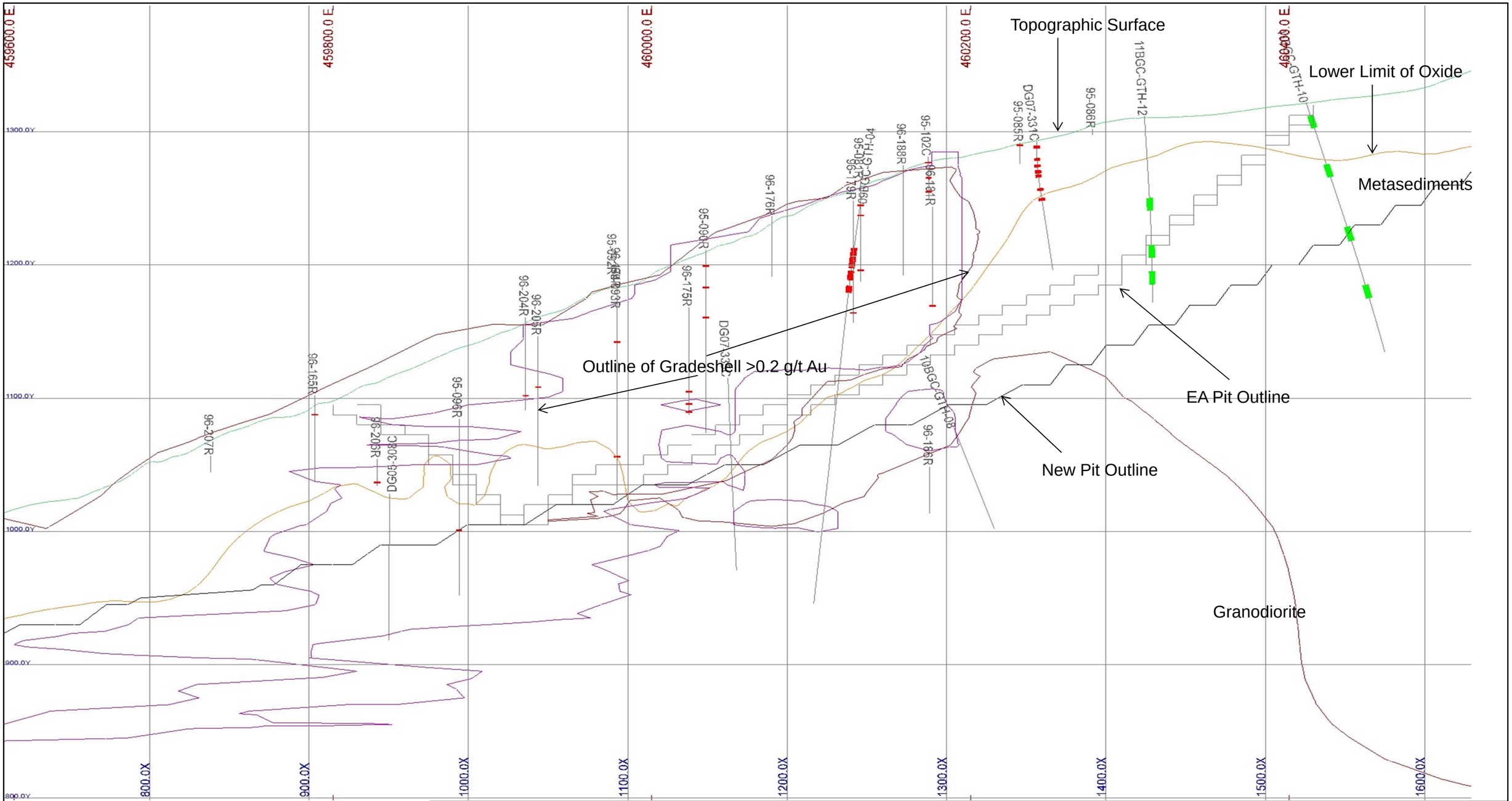
Victoria GOLD CORP

Eagle Gold Project

Geochemical Characterization

Long Section 7099300 N
Showing Sample intervals for ML/ARD Characterization

Date:	Approved:	Figure:
June 2012	KSS	**11**



LEGEND

- EA Sample Interval
- Supplemental Sample Interval

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Job No: 1CV004.000

Filename: Eagle_ABALongSections_Jun2012.pptx

Victoria GOLD CORP

Eagle Gold Project

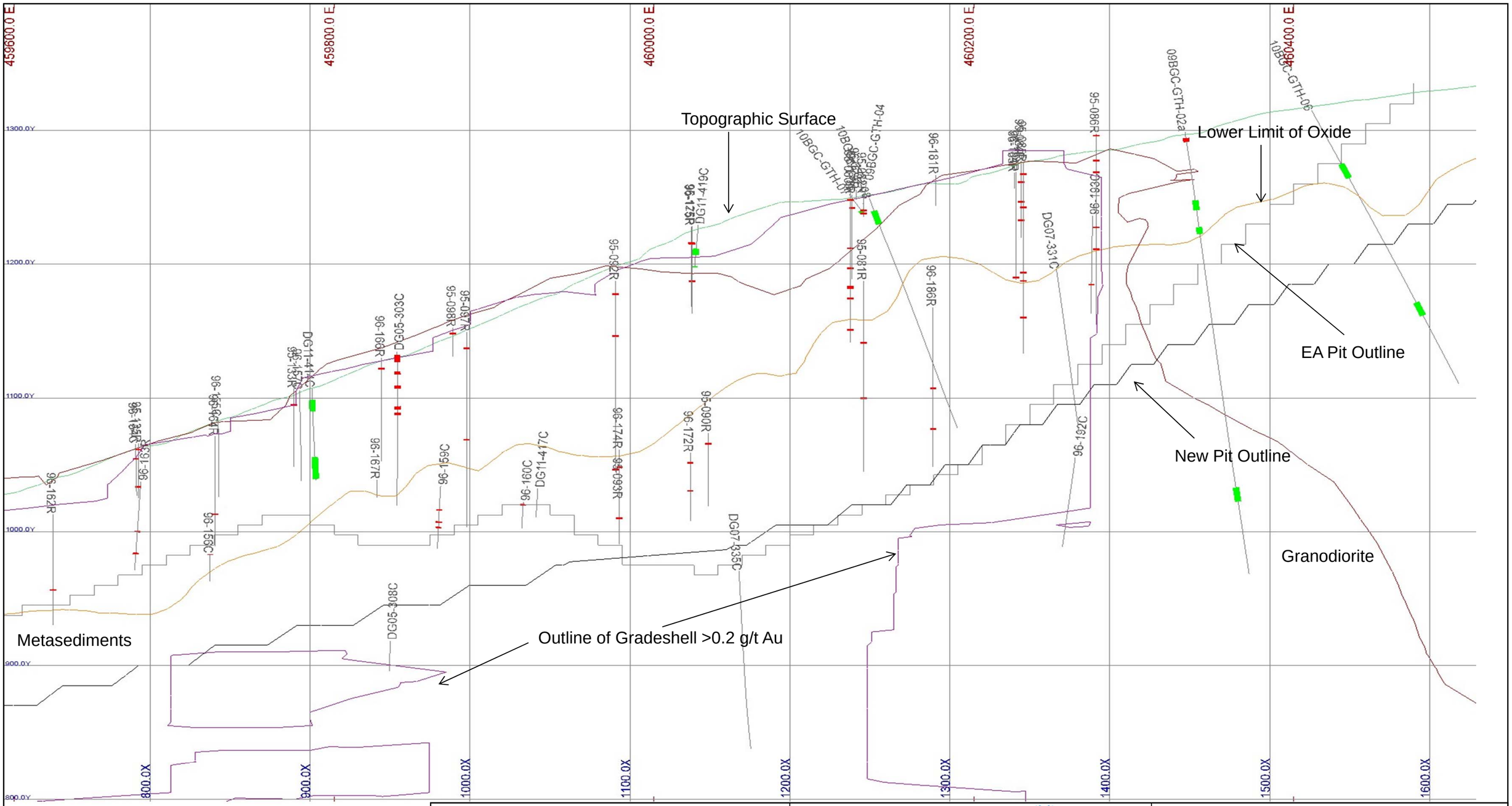
Geochemical Characterization

Long Section 7099400 N
Showing Sample intervals for ML/ARD Characterization

Date: June 2012

Approved: KSS

Figure: **12**



LEGEND

EA Sample Interval

Supplemental Sample Interval

srk consulting

Job No: 1CV004.000

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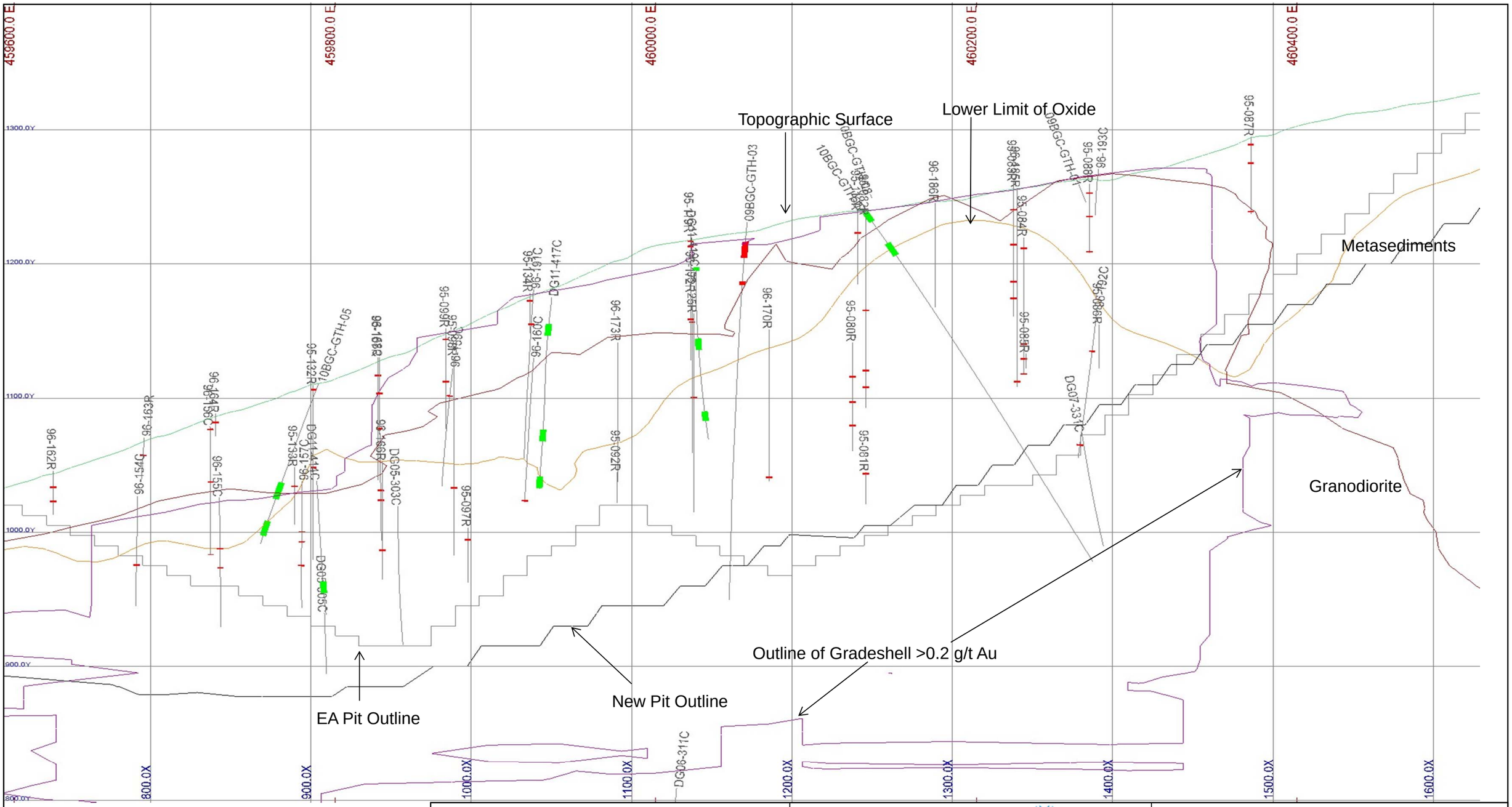
Victoria GOLD CORP

Eagle Gold Project

Geochemical Characterization

Long Section 7099500 N
Showing Sample intervals for ML/ARD Characterization

Date:	Approved:	Figure:
June 2012	KSS	**13**



LEGEND

- EA Sample Interval
- Supplemental Sample Interval

srk consulting

Job No: 1CV004.000

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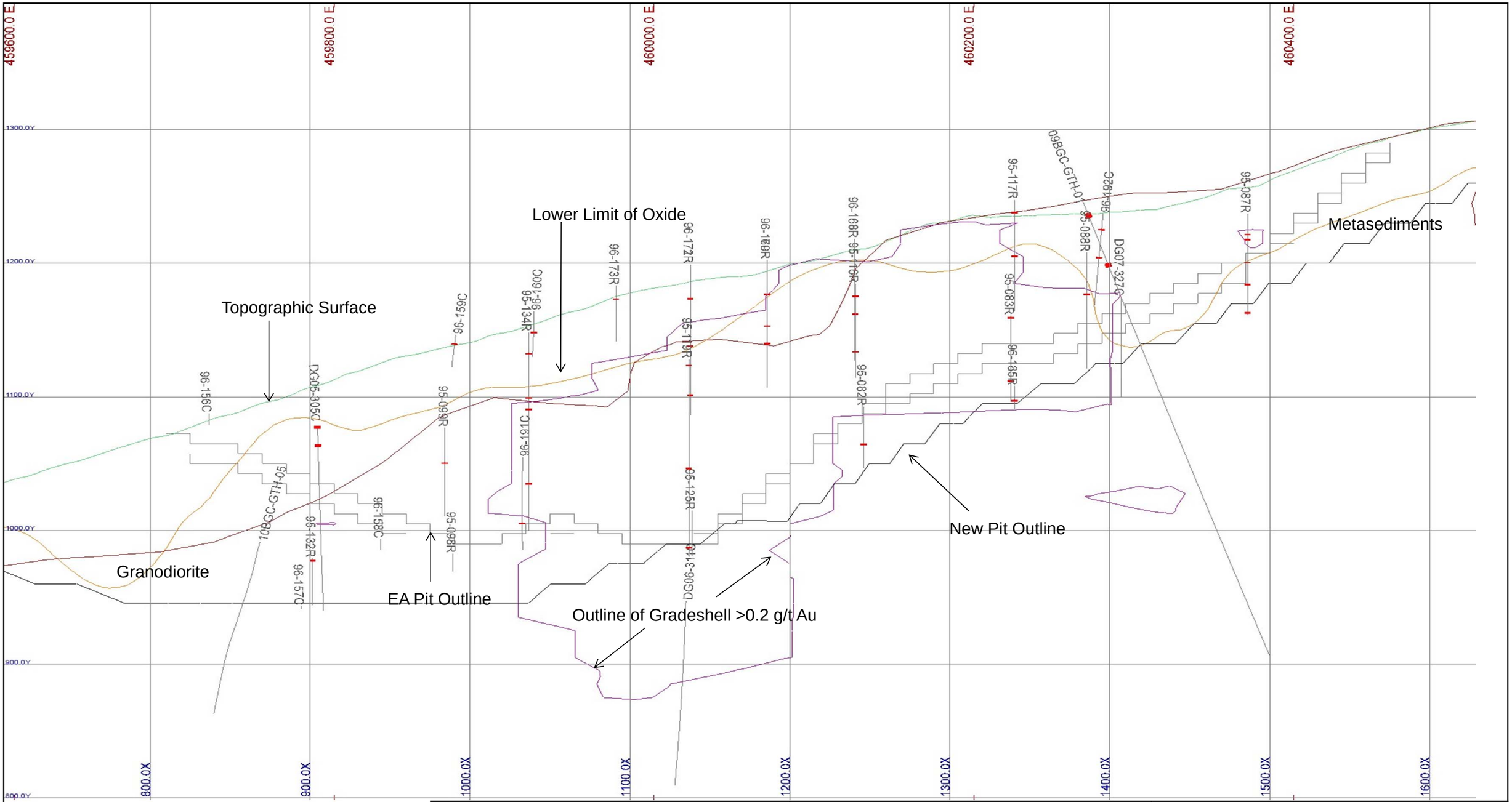
Victoria GOLD CORP

Eagle Gold Project

Geochemical Characterization

Long Section 7099600 N
Showing Sample intervals for ML/ARD Characterization

Date:	Approved:	Figure:
June 2012	KSS	**14**



LEGEND

- EA Sample Interval
- Supplemental Sample Interval

srk consulting

Job No: 1CV004.000

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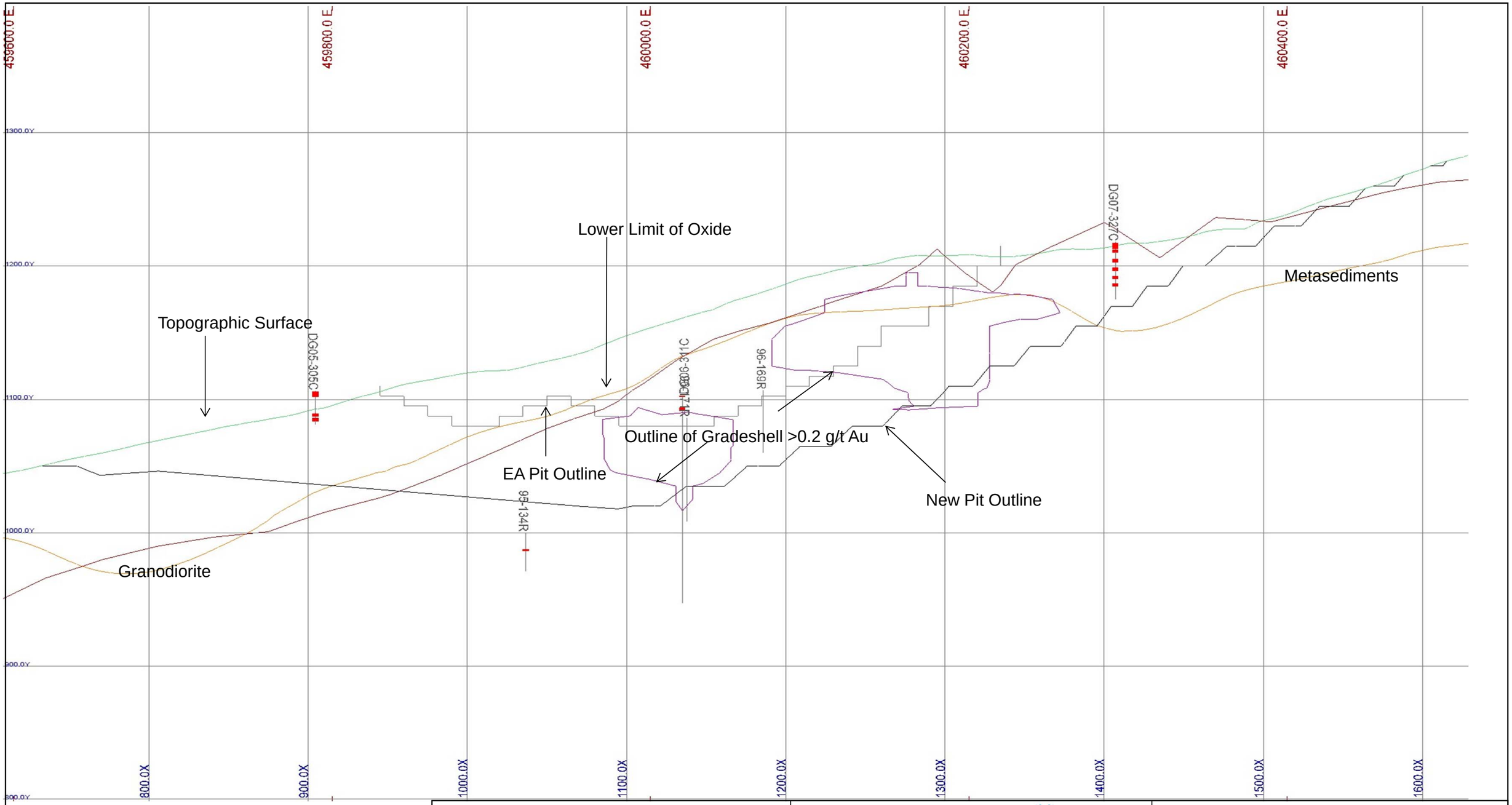
Victoria GOLD CORP

Eagle Gold Project

Geochemical Characterization

Long Section 7099700 N
Showing Sample intervals for ML/ARD Characterization

Date:	Approved:	Figure:
June 2012	KSS	**15**



LEGEND

- EA Sample Interval
- Supplemental Sample Interval

srk consulting

Job No: 1CV004.000

Filename: Eagle_ABALongSections_Jun2012.pptx

Victoria GOLD CORP

Eagle Gold Project

Geochemical Characterization

Long Section 7099800 N
Showing Sample intervals for ML/ARD Characterization

Date:	Approved:	Figure:
June 2012	KSS	**16**

Appendix B: Procedures and Testing Methodologies Utilized in the Program

Appendix B: Procedures of Testing Methodologies Utilized in the Program

Acid Base Accounting

The samples were analyzed at SGS Canada Inc. according to the Modified Acid Base Accounting procedure outlined in MEND Project 1.16.1b, 1991.

Whole Rock Analysis

Whole Rock Analysis was carried out at Assayers Canada Ltd. A 0.100 g pulverized sample is fused with a lithium metaborate/lithium carbonate flux, followed by digestion of the glass disk in 10% nitric acid and analysis of the solution by ICP-MS.

Total Metals

Total metals were conducted by Assayers Canada Ltd. on a pulverized sample by digesting 0.500 g in aqua regia at 95^{o}C for 1.5 hours. The extract is then diluted to 20.0 mL and analyzed for metals by ICP-MS.

Mineralogical Characterization

Polished thin sections of selected samples were prepared by Vancouber Petrographics Ltd. These sections and offcut mounts were evaluated by Kathryn Dunne, P.Geo. The primary objectives were to evaluate the mineralogy with particular emphasis on sulphide minerals and any carbonate minerals present. Results are provided in Appendix B.

X-Ray Diffractometry was conducted at the University of British Columbia. Samples were reduced into fine powder to the optimum grain-size range for X-ray analysis (<10µm) grinding under ethanol in a vibratory McCrone Micronising Mill for 7 minutes. Step-scan X-ray powder-diffraction data were collected over a range 3-80□2□ with CoK□ radiation on a standard Siemens (Bruker) D5000 Bragg-Brentano diffractometer equipped with an Fe monochromator foil, 0.6 mm (0.3□) divergence slit, incident- and diffracted-beam Soller slits and a Vantec-1 strip detector. The long fine-focus Co X-ray tube was operated at 35 kV and 40 mA, using a take-off angle of 6□. Results are shown in Appendix C.

Humidity Cell Tests

Kinetic tests for the current phase of testing are being conducted using the standard humidity cell protocol (MEND, 1991). The samples consisted of minus 1/4 inch crushed rock (~6 mm). Splits of samples as loaded were submitted for static testing procedures and mineralogical assessments. Cells were charged with 1 kg (dry weight) of material and initially flushed with 750 mL of deionized water, with the leachate re-circulated to the top of

the cell for a period of 24 hours to maximize flushing of any stored oxidation products in the samples prior to testing. Subsequent cycles followed the operating procedure consisting of circulation of dry air for three days, circulation of humidified air for three days and then flushing with 500 mL of deionized water on the seventh day. Leachates were submitted for analyses of pH, conductivity, ORP, acidity, alkalinity, sulphate, chloride, fluoride and dissolved metals using ICP-MS methods weekly for the first 4 cycles of testing with metals bi-weekly thereafter. Method detection limits are provided in Table B1.

In addition to the on-going testwork, kinetic testing conducted in 1996/1997 and reported in (Lawrence, 1997) has been used in these evaluations. The previous work consisted of standard humidity cell procedure as is currently being conducted, i.e. 1 kg humidity cells with samples crushed to minus ~1/4 inch (6 mm) and subjected to 3 days of dry air, 3 days of humid air and 1 day of flushing (500 mL per flush). Each sample was subjected to 26 cycles or weeks of testing. Modified humidity cells were also run during this program on the altered granodiorite material consisting of a tall (3 kg) cell with the same infiltration rates as the standard cell, and a large (15 kg) cell with variable infiltration rates. General parameters measured included volume of leachate, pH, conductivity, alkalinity and sulphate and metals were analyzed at ALS Ltd. The detection limits achieved for many of the parameters in the table are not considered adequate for the current EA (e.g. Al, Cd, Hg, Se, Ag) as they are generally higher than might be anticipated to be water quality guidelines in receiving waters for the protection of aquatic life.

Table B1. Method Detection Limits for the Kinetic Test Programs.

Dissolved Metals	2009 Program	1996 Program	Units
Aluminum Al	0.0002	0.2	mg/L
Antimony Sb	0.00002		mg/L
Arsenic As	0.00002		mg/L
Barium Ba	0.00002	0.01	mg/L
Beryllium Be	0.00001		mg/L
Bismuth Bi	0.000005	0.1	mg/L
Boron B	0.05		mg/L
Cadmium Cd	0.000005	0.0002	mg/L
Calcium Ca	0.05		mg/L
Chromium Cr	0.0001	0.01	mg/L
Cobalt Co	0.000005	0.01	mg/L
Copper Cu	0.00005	0.01	mg/L
Iron Fe	0.001	0.03	mg/L
Lead Pb	0.000005	0.001	mg/L
Lithium Li	0.0005		mg/L
Magnesium Mg	0.05		mg/L
Manganese Mn	0.00005	0.005	mg/L
Mercury Hg	0.01	0.05	ug/L
Molybdenum Mo	0.00005	0.03	mg/L
Nickel Ni	0.00002	0.02	mg/L
Phosphorus P	0.002	0.3	mg/L
Potassium K	0.05	2	mg/L
Selenium Se	0.00004	0.2	mg/L
Silicon Si	0.1		mg/L
Silver Ag	0.000005	0.01	mg/L
Sodium Na	0.05	2	mg/L
Strontium Sr	0.00005		mg/L
Sulphur (S)	3		mg/L
Thallium Tl	0.000002		mg/L
Thorium, Th		0.1	mg/L
Tin Sn	0.00001	0.3	mg/L
Titanium Ti	0.0005		mg/L
Uranium U	0.000002		mg/L
Vanadium V	0.0002		mg/L
Zinc Zn	0.0001	0.005	mg/L
Zirconium Zr	0.0001		mg/L

Note: 1996 detection limits only identifed when a <DL was reported. MDLs for parameters consistently above their respective levels are not known.

Field Barrel Tests

In 2012, field kinetic tests were initiated which consist of barrels holding approximately 200 kg of broken drill core representing specific material types. The barrels are open to the atmosphere and have a drain port at the bottom for free draining of leachate. Leachate is collected in sample collection buckets on a monthly basis as weather conditions permit. Leachate is analyzed for general anions and nutrients and dissolved metals.

Metallurgical Column Tests

Metallurgical column testing for the Project has been conducted by KCA and was completed in June 2012. In addition to the metallurgical program, spent columns were evaluated for detoxification and rinsing as directed by Tetra Tech (2013). Two approaches were considered by Tetra Tech as alternatives for detoxification of process solution drained from the heap leach facility at mine closure: ex-situ chemical treatment and in-situ biological treatment. A total of eight 40-kg columns were prepared for the metallurgical and detoxification procedures, including three tests for each CN neutralization method to provide statistically viable data sets at room temperature, and an additional column for each method operated at approximately 4° C to simulate site-specific kinetic concerns (seasonal variability).

Ex-situ chemical treatment was tested for the destruction of cyanide into less toxic degradation products by copper-catalyzed oxidation with hydrogen peroxide. Ex-situ treatment was administered in two phases to a total of four columns. The initial phase was initiated via the application of a chemical treatment process using a single dose of hydrogen peroxide (with copper catalyst) to oxidize cyanide to cyanate in the water circulated through the heap. The “neutralized” water was recirculated through the heap at a rate of approximately one pore volume per week (or as slowly as possible to maintain saturation), flushing additional cyanide from the pore waters until the WAD cyanide concentration in the column decreased to <0.2 mg/L.

In-situ biological treatment was tested for the destruction of cyanide into less toxic degradation products, using microbially mediated processes. In-situ treatment uses a biologically mediated process in which a supplemental reduced carbon syrup is added to the heap to degrade cyanide and to generate microbial growth within the heap. The reduced carbon promotes a direct consumption of free cyanide and some weak cyanide complexes by the formation of non-toxic cyanohydrins. Subsequent degradation of the cyanohydrins and other nitrogen forms is supported by excess carbon (over what is required to react with free and weak complexes of cyanide) because the additional carbon generates a fine biofilm on the heap particles that incorporates the reduced nitrogen compounds (cyanohydrins, ammonia). Reduction in metal concentrations is also commonly observed as result of the reducing conditions established during microbial metabolic processes, because many metals are less soluble in a reduced state (chromium, copper,

selenium, uranium, for instance). Other metals that preferentially sorb to iron or manganese oxides in a more neutral pH range created during the detoxification process will generally decrease, including trace metals such as arsenic and antimony.

A detailed discussion of these treatment procedures and results has been provided by Tetra Tech under separate cover (Tetra Tech, 2013).

Some of the columns were subsequently re-purposed for longer term leaching tests following a modified humidity cell type leaching method referred to in figures as the HCT phase (see Appendix D). Columns that underwent longer term leaching included one column in 2009 (labeled HCol7B) and three columns in the more recent 2012/2013 program (IDs 63316, 63322 and 63301)..

Appendix C: Metallurgical Test Work

Appendix C1: Eagle Gold Project, Interim Report of Metallurgical Test Work (KCA 2010)

Eagle Gold Project
Interim Report of Metallurgical Test Work
November 2010

Prepared for:

StrataGold Corporation
680 – 1066 West Hasting Street
Vancouver, BC V6E 3X2
Canada

Prepared by:



Kappes, Cassiday & Associates
7950 Security Circle
Reno, Nevada 89506

Project No. 366 C **File: 8166**

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10 November 2010

Eagle Gold Project
Interim Report of Metallurgical Test Work
November 2010

1.0 Introduction to Interim Report

This interim report discusses the metallurgical test work completed to date on a Master Composite sample developed from core initially worked on by Kappes, Cassiday & Associates (KCA) in 1996.

The test work completed to date included the preparation of the Master Composite sample by SGS Lakefield. Lakefield utilized a laboratory scale High Pressure Grinding Roll (HPGR) unit to crush a portion of the Master Composite to a particle size of 80% passing 3.641 millimeters.

The crushed material was returned to KCA and a sodium cyanide column leach test was conducted over a 33 day leach period. Following the leach phase the leach solution was treated with hydrogen peroxide to neutralize the Weak Acid Dissociable (WAD) Cyanide and the solution recycled to the column of leached tailings. The detox/rinse test work was continued until a WAD cyanide value of less than 0.2 mg/L was obtained in the column effluent.

After completion of the detox test work the column of leached and detoxified material underwent a modified humidity cell test program.

The humidity cell test is continuing at this point and final column tailings have not been assay for gold or silver. For the purpose of this report the weighted average grade of the Master Composite material based upon the head screen analysis with assays by size fraction was utilized as an estimate for the grade of the material leached in the column.

2.0 Sample Receipt and Preparation

In July 1995, the laboratory facility of Kappes, Cassiday & Associates (KCA) in Reno, Nevada received core material from the Dublin Gulch Project located in the Central Yukon Territory of Canada. Portions of this material were stored at KCA in sealed steel drums.

In June 2009, Victoria Gold acquired its interest in the Dublin Gulch Property (which contains the Eagle Gold Project) as a result of its takeover of of the previous owner.

In September 2009, selected stored crushed reject samples received in July 1995 were utilized to generate the Eagle Gold Master Composite (KCA Sample No. 42979).

Sample preparation was conducted utilizing each of the three (3) separate core intervals, used to generate the Master Composite, to provide material for head analyses.

Portions of the reject core intervals (crushed to minus 50 millimeters) were then combined to generate the Eagle Gold Master Composite (KCA Sample No. 42979).

A portion of the Master Composite was then sent to SGS for High Pressure Grinding Roll (HPGR) test work.

The HPGR product was returned to KCA for additional metallurgical test work including head screen analyses, agglomeration test work, cyanide column leach test work, detoxification and Humidity Cell Testing (HCT).

A description of the selected stored reject core intervals utilized to generate the Master Composite is presented in Table 2-1.

Table 2-1.
Eagle Gold Project
Master Composite
KCA Sample No. 42979
Description and Weights of Reject Core Material

KCA Sample No.	Core Hole	Interval From, meters	Interval To, meters	Unit Type	Description	Crush Size, millimeters	Weight, kg	Weight to Composite, kg
22602	74 C	47.3	99.1	C1	Sericite altered granodiorite	50	594	41.25
22603	74 C	99.1	177.2	B	Fresh to weakly altered granodiorite	50	938	41.25
22616	76 C	22.9	190.0	A	Weathered granodiorite	50	1955	67.50
42979					**Master Composite**			**150.00**

Note: Core Hole, Interval, Unit Type and Description provided by First Dynasty Mine/ Ivanhoe Goldfields, LTD (1995).

2.1 Sample Preparation of the Master Composite (KCA Sample No. 42979)

Sample preparation of the reject core intervals (crushed to minus 50 millimeters) was conducted individually but identically as follows:

1. The minus 50 millimeter crushed material was coned three (3) times and quartered.

2. One quarter was selected and stage crushed to minus 6.3 millimeters.

3. From the minus 6.3 millimeter crushed material a 10 kilogram portion was split out and crushed to nominal 1.70 millimeters.

4. From the nominal 1.70 millimeter crushed material two (2) 500 gram portions were split out and pulverized individually to 80% passing 0.075 millimeters.

5. The pulverized portions were assayed for gold and silver by standard fire assay and wet chemistry methods. A portion of one pulverized portion was also utilized for multi-element, whole rock, total carbon, total sulfur (sulfur speciation) and mercury analyses. In addition to these analyses, a cold cyanide soluble copper shake test was conducted.

6. In addition to the head analyses, a portion of one pulverized portion was utilized for Acid Base Accounting (ABA) test work.

7. From the remaining quarter splits (minus 50 millimeter crushed material) the follow portions were split out and combined to generate the Eagle Gold Master Composite (KCA Sample No. 42979); 41.25 kilograms (KCA Sample No. 22602), 41.25 kilograms (KCA Sample No 22603) and 67.50 kilograms (KCA Sample No. 22616). The reject material for each separate core interval was stored individually.

8. The Eagle Gold Master Composite (150 kilograms) was sent to SGS for High Pressure Grinding Roll (HPGR) test work. The crushed product was then returned to KCA for additional metallurgical test work.

9. The HPGR product was thoroughly blended. An 80-kilogram portion was split out and utilized for a cyanide column leach test work, a 10-kilogram portion was split out and utilized for a head screen analysis and four (4) 2-kilogram portions were split out and utilized for agglomeration test work. The reject material was stored.

3.0 Head Analyses

Head analyses were completed on each of the three (3) separate reject core intervals, received in July 1995 and crushed to minus 50 millimeters, utilized to generate the Eagle Gold Master Composite (KCA Sample No. 42979).

The reject core material (crushed to minus 50 millimeters) from each separate interval was coned three (3) times and quartered. One quarter was selected and stage crushed to minus 6.3 millimeters. A 10-kilogram portion was then split out and crushed to nominal 1.70 millimeters. From the nominal 1.70 millimeter crushed material two (2) 500 gram portions were split out and pulverized individually to 80% passing 0.075 millimeters.

Each pulverized portion was analyzed for gold and silver by standard fire assay and wet chemistry methods.

A portion of one pulverized portion was assayed semi-quantitatively by means of inductively coupled argon plasma – optical emission spectrophotometer (ICAP-OES) for an additional series of elements and for a whole rock analyses. In addition to these semi-quantitative analyses, the sample was assayed by quantitative methods for total carbon, total sulfur (sulfur speciation) and mercury. A cyanide soluble copper shake test was conducted on a portion of the pulverized head material.

3.1 Head Analyses for Gold and Silver

Head analyses for gold and silver were completed by standard fire assay and wet chemistry methods.

The results of the head analyses for gold and silver are presented in Table 3-1.

Table 3-1.
Eagle Gold Project
Reject Core Intervals
Head Analyses – Gold and Silver

KCA Sample No.	Unit Type	Assays 2009		
		Assay 1, gms Au/MT	Assay 2, gms Au/MT	Average Assay, gms Au/MT
22602	C1	0.47	0.28	0.37
22603	B	0.44	0.37	0.41
22616	A	0.98	0.92	0.95

KCA Sample No.	Unit Type	Assays 2009		
		Assay 1, gms Ag/MT	Assay 2, gms Ag/MT	Average Assay, gms Ag/MT
22602	C1	5.3	1.6	3.4
22603	B	2.0	6.5	4.2
22616	A	1.5	1.3	1.4

3.2 Head Analyses for Multi-elements

A portion of the pulverized material for each core interval was assayed semi-quantitatively by means of inductively coupled argon plasma – optical emission spectrophotometer (ICAP-OES) as well as by flame atomic absorption spectrophotometer (FAAS) methods for an additional series of elements and for a whole rock analyses. In addition to these semi-quantitative analyses, the samples were assayed by quantitative methods for total carbon, total sulfur (sulfur speciation) utilizing a LECO CS 400 unit.

The results of the multi-element analyses are presented in Table 3-2. The results of the whole rock analyses are presented in Table 3-3.

Table 3-2.
Eagle Gold Project
Reject Core Intervals
Head Analyses – Multi-element Analyses

		Apr-96			Oct-09		
Constituent	Unit	KCA Sample No. 22602	KCA Sample No. 22603	KCA Sample No. 22616	KCA Sample No. 22602	KCA Sample No. 22603	KCA Sample No. 22616
Al	%				7.63	7.74	8.19
As	mg/kg	150	670	40	223	416	158
Ba	mg/kg	227	258	208	1531	1524	1555
Bi	mg/kg	14.0	5.4	7.03	24	24	26
C_{total}	%	0.50	0.46	0.19	0.54	0.49	0.14
Ca	%				2.51	2.41	2.34
Cd	mg/kg	6.03	6.14	2.14	7	6	6
Co	mg/kg				13	12	12
Cr	mg/kg	52.5	46.1	24.9	93	90	116
Cu	mg/kg	27.7	15.9	8.11	38	33	20
$Cu_{(cyanide\ soluble)}$	mg/kg				8	6	6
Fe	%	2.00	1.85	0.71	2.54	2.39	2.39
Hg	mg/kg	<2.00	<2.00	<2.00	<0.05	<0.05	<0.05
K	%				3.69	3.85	3.80
Mg	%				1.07	0.88	0.93
Mn	mg/kg	217	212	66.5	271	231	182
Mo	mg/kg	58.8	49.2	23.9	3	2	1
Na	%				1.59	1.60	1.76
Ni	mg/kg	16.3	15.4	7.94	28	30	32
Pb	mg/kg	25.6	191	1.10	42	38	24
S_{total}	%	0.34	0.44	0.08	0.21	0.22	0.05
$S_{sulfide}$	%	0.26	0.31	<0.01	0.11	0.07	<0.01
$S_{sulfate}$	%	<0.01	0.13	<0.03	0.10	0.15	0.05
Sb	mg/kg	<0.05	16.4	<0.05	9	10	5
Sr	mg/kg				417	431	466
Ti	%				0.30	0.28	0.33
V	mg/kg				44	34	38
W	mg/kg				35	25	11
Zn	mg/kg	45.2	297	9.08	95	52	33

Table 3-3.
Eagle Gold Project
Reject Core Intervals
Head Analyses - Lithium Metaborate Fusion - Whole Rock Analyses

Constuituent	Units	KCA Sample No. 22602		KCA Sample No. 22603		KCA Sample No. 22616	
SiO_2	%	64.53		64.99		66.66	
Si	%		30.17		30.38		31.16
Al_2O_3	%	14.17		14.80		15.00	
Al	%		7.50		7.83		7.94
Fe_2O_3	%	3.68		3.39		3.36	
Fe	%		2.57		2.37		2.35
CaO	%	3.60		3.59		3.10	
Ca	%		2.57		2.57		2.22
MgO	%	1.68		1.42		1.51	
Mg	%		1.01		0.86		0.91
Na_2O	%	2.14		2.21		2.38	
Na	%		1.59		1.64		1.77
K_2O	%	4.52		4.78		4.49	
K	%		3.75		3.97		3.73
TiO_2	%	0.51		0.49		0.53	
Ti	%		0.31		0.29		0.32
MnO	%	0.03		0.03		0.02	
Mn	%		0.02		0.02		0.02
SrO	%	0.05		0.05		0.06	
Sr	%		0.04		0.04		0.05
BaO	%	0.17		0.17		0.18	
Ba	%		0.15		0.15		0.16
Cr_2O_3	%	0.02		0.02		0.02	
Cr	%		0.01		0.01		0.01
P_2O_5	%	0.12		0.12		0.14	
P	%		0.05		0.05		0.06
LOI (1,093^{o}C)	%	4.21		3.52		1.73	
SUM	%	99.43		99.58		99.18	

Note: For the purpose of calculation, for values less than the detection limit a value of ½ the detection limit is utilized.

Note: The SUM is the total of the oxide constituents and the loss on ignition.

3.3 Head Screen Analyses with Assays by Size Fraction

Portions of the reject core intervals (crushed to minus 50 millimeters) were then combined to generate the Eagle Gold Master Composite (KCA Sample No. 42979).

A portion of the Master Composite was then sent to SGS for High Pressure Grinding Roll (HPGR) test work. The HPGR product was returned to KCA for additional metallurgical test work. From the HPGR product a 10-kilogram portion was split out and utilized for a head screen analysis.

The head screen analysis is summarized in Table 3-4.

The complete head screen analysis is presented in Table 3-5.

The head screen analysis is presented, graphically, in Figure 3-1.

Table 3-4.
Eagle Gold Project
Master Composite
KCA Sample No. 42979
Summary of Head Screen Analyses – Gold and Silver

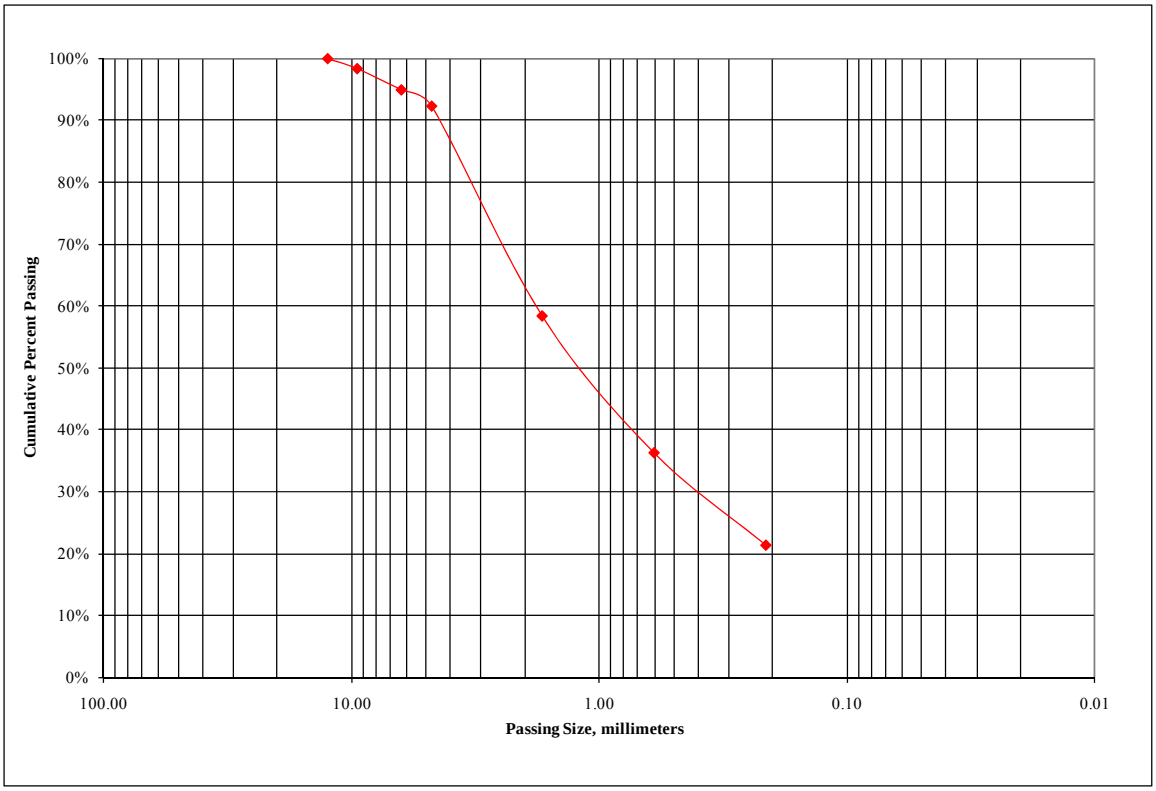
KCA Sample No.	Description	Calc. P_{80} Size, mm	Weighted Avg. Head Assay, gms Au/MT	Weighted Avg. Head Assay, gms Ag/MT
42979	Master Composite	3.641	0.51	1.79

Table 3-5.
Eagle Gold Project
Master Composite
KCA Sample No. 42979
HPGR Crushed Product (Calculated P80 = 3.641 millimeters)
Head Screen Analysis with Assays by Size Fraction

			Dry Screen Analysis				Analysis of Gold Content			
KCA Sample No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Assay 1, gms Au/MT	Assay 2, gms Au/MT	Average Assay, gms Au/MT	Weight Au, %
42979		12.50	0.00				---	---	---	---
	12.50	9.50	0.16	1.61%	1.61%	100.00%	0.14	0.14	0.14	0.45%
	9.50	6.30	0.34	3.43%	5.05%	98.39%	0.30	0.55	0.43	2.91%
	6.30	4.75	0.26	2.62%	7.67%	94.95%	0.17	0.23	0.20	1.03%
	4.75	1.70	3.36	33.91%	41.57%	92.33%	0.73	0.36	0.55	36.70%
	1.70	0.600	2.19	22.10%	63.67%	58.43%	0.37	0.39	0.38	16.55%
	0.600	0.212	1.48	14.93%	78.61%	36.33%	0.41	0.34	0.37	10.98%
	0.212	Pan	2.12	21.39%	100.00%	21.39%	0.74	0.75	0.74	31.38%
Total -			9.91	100.00%			0.57	0.45	0.51	100.00%
Detection -							0.10	0.10		

			Dry Screen Analysis				Analysis of Silver Content			
KCA Sample No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Assay 1, gms Ag/MT	Assay 2, gms Ag/MT	Average Assay, gms Ag/MT	Weight Ag, %
42979		12.50	0.00				---	---	---	---
	12.50	9.50	0.16	1.61%	1.61%	100.00%	2.06	2.06	2.06	1.85%
	9.50	6.30	0.34	3.43%	5.05%	98.39%	1.71	1.71	1.71	3.28%
	6.30	4.75	0.26	2.62%	7.67%	94.95%	1.37	1.71	1.54	2.26%
	4.75	1.70	3.36	33.91%	41.57%	92.33%	1.71	1.37	1.54	29.16%
	1.70	0.600	2.19	22.10%	63.67%	58.43%	1.37	1.37	1.37	16.89%
	0.600	0.212	1.48	14.93%	78.61%	36.33%	1.37	3.43	2.40	19.98%
	0.212	Pan	2.12	21.39%	100.00%	21.39%	2.06	2.40	2.23	26.58%
Total -			9.91	100.00%			1.66	1.93	1.79	100.00%
Detection -							1.70	1.70		

Figure 3-1.
Eagle Gold Project
Master Composite
KCA Sample No. 42979
Head Screen Analyses



4.0 Acid Base Accounting

A pulverized portion from each of the three (3) separate core intervals was utilized for Acid Base Accounting (ABA) test work.

The ABA analysis is a static test used to determine the acid producing or acid consuming potential of a mined material.

The ABA analysis is comprised of three distinct determinations. To facilitate the comparison of values, the neutralizing potential, (NP), acid potential (AP) and net neutralization potential (NNP) are expressed in units of metric tonnes $CaCO_3$ equivalent per 1000 metric tonnes of material

1. In the procedure utilized to determine the neutralization potential (NP) of a mined material the sample is treated with an excess of standardized hydrochloric acid (HCl) at ambient temperature for a 24 hour period. During this period, the pH of the sample is checked, to insure that sufficient acid is available for consumption reaction. After the test period, the un-reacted acid is titrated with a standardized base to a neutral pH to calculate the calcium carbonate equivalent of the acid consumed.

2. In calculating the acid potential (AP) of a mined material determinations are made for the percentage of total sulfur, sulfate sulfur, and sulfide sulfur by difference in the test sample. Standards and blanks are used in the sample set to insure accuracy. The acid potential of the sample in tonnes $CaCO_3$ equivalent per 1000 tonnes is given by,

   AP = Percent "Sulfur" x 31.25

   That is assuming that 31.25 tonnes of $CaCO_3$ is needed to neutralize the acid, potentially generated, from 1 tonne of material containing 1 % sulfur.

3. The net neutralization potential (NNP) in tonnes $CaCO_3$, equivalent per 1000 tonnes of material is given by the difference of the neutralization potential and the acid potential.

   NNP = NP – AP

If a negative NNP value is determined, the material may be classified as a potentially acid producing material. Conversely, if the NNP value is positive, then the material may be classified as a potentially acid consuming material. This test does not reflect the long-term acid producing potential of a material due to geological or bacterial degradation.

Data in the table allows for the calculation of two values: acid potential (AP) and net neutralization potential (NNP).

The total sulfur (as %S) provides for the maximum potential acid generating or neutralizing potential of a mined material. The most common way to calculate the overall AP value in the mining industry today is to use the sulfide sulfur content. However, since the calculated sulfide sulfur content is below the analytical detection limit for the core interval identified as Unit Type A (KCA Sample No. 26616) the total sulfur content was utilized to calculate the overall AP value.

The net neutralization potential (NNP - based upon total sulfur content) for the core intervals indicated that the material has a net ability to neutralize or consume acid.

The results of the ABA analyses utilizing pulverized material from each of the three (3) separate core intervals are presented in Table 4-1.

Table 4-1.
Eagle Gold Project
Reject Core Intervals
Acid Base Accounting

		Apr-96							Oct-09						
KCA Sample No.	Unit Type	Total Sulfur, %	Sulfide Sulfur, %	Sulfate Sulfur, %	Paste pH	NP	AP	NNP	Total Sulfur, %	Sulfide Sulfur, %	Sulfate Sulfur, %	Paste pH	NP	AP	NNP
22602	C1	0.34	0.26	<0.01	8.22	47	10.6	36	0.21	0.11	0.10	7.6	51	7	44
22603	B	0.44	0.31	0.13	8.48	40	13.8	26	0.22	0.07	0.15	8.2	50	7	43
22616	A	0.08	<0.01	<0.03	8.47	18	2.5	16	0.05	<0.01	0.05	8.2	17	2	15

Notes: In tonnes CaCO3 equivalent per 1,000 tonnes of material.

Note: Net Neutralization Potential (NNP) = Neutralization Potential (NP) - Acidification Potential (AP).

5.0 Preliminary Agglomeration Test Work

Agglomeration tests were completed on four (4) 2 kilogram portions of the Eagle Gold Master Composite HPGR crushed product (calculated P_{80} 3.641 millimeters).

The crushed material was tested with the addition of 0, 2, 4 and 8 kilograms of Portland Type II cement per metric tonne of ore.

The percolation tests were conducted in small (7.5 cm inner diameter) columns at a range of cement levels with no compressive load applied. The purpose of the percolation tests was to examine the permeability of the material under various cement agglomeration levels.

The non-agglomerated (no cement added) percolation test failed. The percolation tests utilizing material agglomerated with 2, 4 and 8 kilograms of Portland Type II cement per metric tonne of ore passed.

5.1 Agglomeration and Percolation Test Procedure

Agglomeration tests were conducted on 2 kilogram portions of HPGR crushed material (calculated P_{80} 3.641 millimeters). Agglomeration tests were conducted utilizing 0, 2, 4 and 8 kilograms of Portland Type II cement per metric tonne of ore. The procedure used for these tests was as follows:

1. A 2 kilogram split of material was placed into the agglomerating drum and a specified amount of cement was added.

2. The drum was rotated for several minutes to mix the ore and cement thoroughly.

3. The material was sprayed with a solution of tap water to form the agglomerates. The amount of solution required for agglomeration was recorded.

4. The agglomerates were then placed into a 75 millimeter diameter column and the initial ore height was recorded. The agglomerates were allowed to cure for a period of 24 hours.

5. Solution was applied to the column at a rate of 10 - 12 liters per hour per square meter of column surface area for 72 hours. Changes in the height of the ore in the column, agglomerate stability and percolation problems were recorded.

6. After 72 hours of solution application, the sides of the column were tapped sharply until the ore height within the column remained stable. The final ore height was recorded.

7. The exit line from the column was clamped off and the column was flooded with solution to a level equal to 25 - 50 millimeters above the ore surface.

8. The clamp was removed and while the solution level above the ore was maintained, the solution flow rate from the bottom of the column was measured.

5.2 Discussion of Results

The complete results of this test program (including a pass/fail analysis of the information) are shown in Table 5-1.

Over the test period the pH of the effluent solution was monitored. In general a pH below 10 was an indication of a low pH and not acceptable for leaching. However, a high pH (a pH greater than 11.5) would also be noted as high.

In the non-compacted agglomeration tests, KCA generally considers a slump of over 10% as an indication of failure. One item also examined is the consistency of results with regard to slump. KCA would expect a lower slump with higher cement levels.

The slumps calculated for the agglomerated columns were negligible (0% slump was obtained).

The typical heap design solution application rate of 10 - 12 LpHr/m^2 is utilized when examining the agglomeration data. When examining results from this type of agglomeration tests KCA considers a measured flow of one hundred times (100X) the heap design rate as a "pass". A measured flow less than 100X the heap design flow is not necessarily a failure. If there are enough tests with enough consistency between tests, and all other points indicate a "pass", then KCA sometimes will "pass" a test with less than the 100X flow. However, we will never pass a test at 10X and probably not at 50X.

In examining the Pellet Breakdown, it is felt that 10% is marginally acceptable and anything higher is a failure. In general we allow more range in the allowable Pellet Breakdown as this is a subjective value based on the visual observation of the pellets after the test by the technicians performing the test.

Pellet breakdown for the agglomerated column tests for each separate crush size was not significant (less than 3%).

Solution color and clarity typically is an indicator of agglomerate failure. This information is utilized in coordination with both slump as well as Pellet Breakdown to determine if the test passes.

It is believed that these types of tests are indicative of cement requirements for a low, single lift heap height (6 meter maximum) and provide cement levels for larger scale column test work. Compacted permeability tests may be required to evaluate heap heights over 6 meters.

Table 5-1.
Eagle Gold Project
Master Composite
HPGR Crushed Product (Calculated P_{80} = 3.641 millimeters)
Summary of Agglomeration Test Work

KCA Sample No.	KCA Test No.	Description	Top Size of Material, mm	Cement, $kg/MT_{dry\ ore}$	Water Added, mLs	Column Area, m^2	Dry Weight, kg	Initial Height, cm	Ht. on Day 3 of Leaching, cm	Final Height, cm	pH on Day 3	pH Comment	% Slump	Slump Result	Apparent Bulk Density, MT_{dry}/M^3	Flow Out, $LpHr/m^2$	Flow Result	Visual Estimate of % Pellet Breakdown	Pellet Result	Out Flow Solution, Color and Clarity	Solution Result	Overall Test Result
42979	43421 A	Master Composite	3.641	0	0.0	0.005	2.0	27.94	27.94	27.94	N/A	N/A	0%	Pass	1.57	-	Fail	N/A	Fail	N/A	Fail	Fail
	43421 B		3.641	2	154.9	0.005	2.0	31.12	31.12	31.12	11.5	Good	0%	Pass	1.41	10,702	Pass	<3	Pass	Colorless & Clear	Pass	Pass
	43421 C		3.641	4	176.0	0.005	2.0	32.39	32.39	32.39	11.8	High	0%	Pass	1.35	18,237	Pass	<3	Pass	Colorless & Clear	Pass	Pass
	43421 D		3.641	8	167.3	0.005	2.0	33.66	33.66	33.66	12.1	High	0%	Pass	1.30	23,601	Pass	<3	Pass	Colorless & Clear	Pass	Pass

6.0 Column Leach Test Work

A single column leach test was completed utilizing the Eagle Gold Master Composite HPGR crushed product (calculated P_{80} 3.641 millimeters).

The material utilized for the column leach test was agglomerated with 2 kilograms of Portland Type II cement per metric tonne of ore prior to loading into the column.

Following the leaching period, detoxification test work utilizing a hydrogen peroxide (copper catalyzed peroxide) detoxification method was completed. The detoxification procedure was continued until a WAD cyanide value less than 0.2 mg/L was obtained for three (3) consecutive days.

The final barren solution and the final detox solution, for each separate column leach test were analyzed for a Profile II metals analysis, total cyanide and Weak Acid Dissociable (WAD) cyanide. The column tailings after detoxification were submitted for Humidity Cell Testing (HCT). The HCT test work was on-going at the time of this report.

The column leach test is described in Table 6-1.

Table 6-1.
Eagle Gold Project
Master Composite
Column Leach Test Parameters

KCA Sample No.	KCA Test No.	Crush Size, mm	Column Diameter, meters	Initial Charge Height, meters	Charge Weight, kilograms
42979	43276	100% minus 12.5	0.203	1.702	80.00

Note: Calculated P_{80} based upon head screen analysis – 3.641 millimeters.

6.1 Column Leach Test Recoveries

Column tailings assays were not available for this report as the HCT test work was on-going at the time of this report.

Column test recoveries for this report were based upon the average head screen analysis data as shown in Table 6-1.

Table 6-2.
Eagle Gold Project
Master Composite
KCA Sample No. 42979
Minus 12.5 millimeter Crushed Material (Calculated P_{80} = 3.641 millimeters)
Head Screen Analysis with Assays by Size Fraction

KCA Sample No.	Description	Calc. P_{80} Size, mm	Weighted Avg. Head Assay, gms Au/MT	Weighted Avg. Head Assay, gms Ag/MT
42979	Master Composite	3.641	0.506	1.79

Preliminary results for the column leach test are presented in Table 6-1.

Gold recovery for the Master Composite column test, utilizing material crushed utilizing a High Pressure Grinding Roll (HPGR) to minus 12.5 millimeters was 96% after 33 days of leaching. This recovery was based upon an estimated head grade of 0.506 gms Au/MT. Sodium cyanide consumption was 0.40 kg/MT and cement addition was 2.0 kg/MT.

Column test recovery results contained in the body of this report were based upon carbon assays vs. the estimated head as no tailings assays were available. Recovery results contained in the attached appendix (Appendix A) were based upon the daily solution assays vs. an estimated calculated head (solution assays + estimated tailings assays).

When an outside party submits samples, KCA can estimate gold recovery for an ore body based upon the assumption that the ore to be mined will be similar to the samples tested. For feasibility study purposes, KCA normally discounts laboratory gold recoveries by two to three percentage points when estimating field recoveries. This assumes a well-managed heap leach operation, and if agglomeration is required, it is assumed that this process is completed correctly.

Based upon KCA's experience with mostly clean non-reactive ores, cyanide consumption in production heaps would be only 25 to 33 percent of the laboratory column test consumptions. For ores containing high amounts of leachable copper, higher factors would be utilized.

Table 6-3.
Eagle Gold Project
Master Composite
KCA Sample No. 42979
KCA Test No. 43276
Minus 12.5 millimeter Crushed Material (Calculated P_{80} = 3.641 millimeters)
Cyanide Column Leach Test
Metal Recoveries and Chemical Consumption

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Au/MT	Carbon Weight, grams	Metal on Carbon Extraction, gms Au/MT	Extraction, % Au	Cumulative Extraction, % Au	NaCN Consumed, kg/MT	Cement Added, kg/MT
0-9	1.00	0.343	185.57	0.418	83%	83%	0.17	2.00
9-20	2.32	0.030	167.98	0.043	8%	91%	0.10	0.00
21-33	3.79	0.020	182.19	0.025	5%	96%	0.13	0.00
	Total:	0.393		0.486			0.40	2.00
	Estimated Tail:	0.020		0.020				
	Estimated Head:	0.413		0.506				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Ag/MT	Carbon Weight, grams	Metal on Carbon Extraction, gms Ag/MT	Extraction, % Ag	Cumulative Extraction, % Ag	NaCN Consumed, kg/MT	Cement Added, kg/MT
0-9	1.00	0.09	185.57	0.11	6%	6%	0.17	2.00
9-20	2.32	0.00	167.98	0.01	1%	7%	0.10	0.00
21-33	3.79	0.01	182.19	0.00	0%	7%	0.13	0.00
	Total:	0.10		0.13			0.40	2.00
	Estimated Tail:	1.66		1.66				
	Estimated Head:	1.76		1.79				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Column Parameters

KCA Sample No.	42979	KCA Test No.	43276
Dry Weight Ore, kg:	80.00	Column Area, m^2:	0.032
Initial Ore Height, m:	1.702	Column Volume (initial), m^3:	0.055
Final Ore Height, m:	1.702	Column Volume (final), m^3:	0.055
Slump, %:	0.0%	Apparent Bulk Density (final), MT_{dry}/m^3:	1.450
Cement Addition, kg/MT:	2.00	Retained Moisture, L/MT_{dry}:	n/a
Agglom. Water Added, liters (1 gpL NaCN):	4.15	Mercury on C-1 Carbon, mg/kg:	0.98
Hydrated lime added during loading, kg/MT:	0.00	Final Percolation Rate, $L/Hr/m^2$:	n/a

6.2 Cyanide Column Leach Tests, Description of Apparatus

6.2.1 Drip Leach Test Apparatus

The column tests were run as a continuously drained drip leach tests.

This type of test most accurately reflects actual heap leach conditions and is normally run when the material contains enough fines to prevent channeling of solution down individual rock faces.

The apparatus used for this test is shown schematically in Figure 6-1.

6.2.2 Column Setup

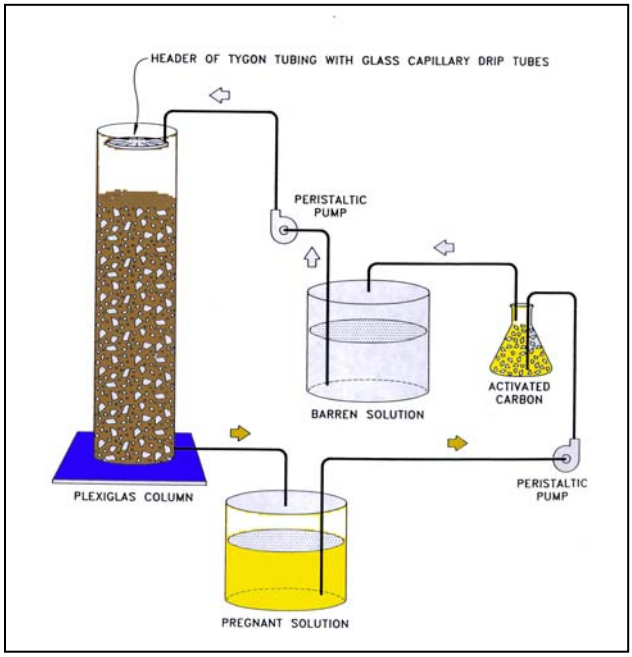
The material to be leached was placed into a Plexiglas column with an inside diameter of 203.2 millimeters (cross sectional area of 0.032 square meters).

Alkaline cyanide solution was continuously distributed onto the material through a header of Tygon tubing with glass-capillary drip tubes. Flow rate of solution dripping onto the material was controlled with a peristaltic pump to approximately 10-12 liters per hour per square meter of column surface (target flow rate of 10 liters per hour per square meter of column surface).

The solution exiting the leach column was collected in the bottom (floor – pregnant leach solution) tank. Leach solution was checked each cycle for pH, NaCN, Au and Ag. Copper was checked periodically. The solution was then passed through a bottle of activated carbon over a period of 24 hours to recover the gold and silver in solution. After passing through the bottle of activated carbon, the solution was re-assayed for pH, NaCN, Au and Ag. Sodium cyanide was then added, if necessary, to maintain the solution at "target" levels (discussed in the History section). The leach solution was then recycled to the material for another 24 hour leach period. Two (2) batches of leach solution were used so that while one batch was applied to the column, the other was run through the carbon.

Figure 6-1.
Eagle Gold Project
Column Leach Test Apparatus





6.3 History of Cyanide Column Leach Tests

6.3.1 Start-up of Tests

The initial leach solution for the column tests contained 1.0 grams sodium cyanide per liter of solution.

6.3.2 Solution Color and Clarity

The initial and final solution color and clarity were monitored for each column test.

The solution color and clarity for the column tests are summarized in Table 6-9.

Table 6-9.
Eagle Gold Project
Master Composite
Cyanide Column Leach Test Work
Effluent Solutions, Color and Clarity

KCA Sample No.	KCA Test No.	Color and Clarity of Initial Column Effluent	Color and Clarity of Final Column Effluent
42979	43276	Clear and Yellow	Clear and Yellow

A "colorless and clear" solution exiting the columns is indicative of the fact that no fines migrated within the column of ore. Metal buildup in solution is usually denoted by a significant color change in the solution (i.e. a yellow color is typically indicative of higher levels of iron and a light blue solution might be indicative of a solution containing higher levels of copper). The absence of color could be indicative that no build up of metals in solution occurred during leach.

6.4 Copper Analyses in Solutions

Interim pregnant (effluent) cyanide leach solutions were assayed (solution analysis by flame atomic absorption spectrophotometer methods) periodically for copper content.

The lowest and highest copper values in solution data obtained over the leach period are summarized in Table 6-10.

Table 6-10.
Eagle Gold Project
Master Composite
Cyanide Column Leach Test Work
Copper Concentration in Column Leach Solutions

KCA Sample No.	KCA Test No.	Low Copper, mg/L	High Copper, mg/L
42979	43276	3.87	21.8

Copper minerals dissolve in cyanide solutions at varying rates and to varying degrees. Copper in cyanide leach solutions is not desirable as copper can consume sodium cyanide, consume dissolved oxygen, decrease precious metal dissolution rates, interfere with solution processing techniques and end up in the final doré. At ambient temperatures copper dissolution is generally highest for the carbonate copper minerals Azurite and Malachite going to lower dissolutions for copper silicates (Chrysocolla) and copper iron sulfides (Chalcopyrite). In cyanide starved systems the presence of Chalcopyrite can act to remove gold from solution (preg-rob). Chalcocite mineralization typically shows a copper dissolution of greater than 90%.

The range of copper in solution obtained for this series of column leach tests would be considered low and generally not note worthy in relationship to the processing of the material. The low copper in solution values obtained during the column leach tests confirmed the results obtained for copper in the head analyses.

6.5 Cyanide Strength and Alkalinity

The initial leach solution for the column test contained 1.0 grams sodium cyanide per liter of leach solution. Cyanide strength of the on-flow solutions was then maintained at 0.5 grams per liter sodium cyanide. Protective alkalinity in the tests was maintained by the initial addition of hydrated lime. The leach solution was monitored to ensure that it was in the pH range of 10-11.

Reagent consumption data for the column leach tests are summarized in Table 6-11.

Table 6-11.
Eagle Gold Project
Master Composite
Cyanide Column Leach Test Work
Column Leach Tests, Reagent Consumptions

KCA Sample No.	KCA Test No.	NaCN Consumed, kg/MT	Hydrated Lime Added, kg/MT	Cement Added, kg/MT
42979	43276	0.40	0.00	2.00

6.6 Mercury Analyses

The granular activated carbon samples utilized for the column tests for precious metal adsorption were air dried and then assayed for mercury as well as precious metal content.

The results of the mercury and gold analyses on the individual carbon samples are summarized in Table 6-12. The ratio of gold adsorbed to mercury adsorbed is also presented.

Table 6-12.
Eagle Gold Project
Master Composite
Cyanide Column Leach Test Work
Mercury Concentrations

KCA Sample No.	KCA Test No.	Carbon Period	Carbon Weight, grams	Carbon Assay, grams Au/MT	Carbon Assay, gms Hg/MT	Ratio Au : Hg
42979	43276	C-1	185.57	180.26	0.98	184
		C-2	167.98	20.43	0.59	35
		C-3	182.19	10.83	0.29	37

6.7 Percent Slump and Final Apparent Bulk Density

The height of material in the column test was measured before and after leaching. This height was utilized to calculate the "slump" during leaching as well as to calculate the final apparent bulk density for the material in the column.

The height, slump and final apparent bulk density from the column leach tests are summarized in Table 6-13.

The percent slump of a column gives an indication of potential permeability problems in production heaps. KCA typically classifies slumps larger than 10% as high. The calculated percent slump values for the Eagle Gold column leach tests were low, ranging from 0% to 0.8%.

Table 6-13.
Eagle Gold Project
Master Composite
Cyanide Column Leach Test Work
Percent Slump and Final Apparent Bulk Density

KCA Sample No.	KCA Test No.	Crush Size, mm	Initial Ht., meters	Final Ht., meters	Slump, %	Final Apparent Bulk Density, $MTdry/m^3$
42979	43276	-12.5	1.702	1.702	0.0%	1.449

7.0 Detoxification Test Work

7.1 Leachate Chemistry

As outlined in Section 6.0 of this report, the cyanide column leach test was conducted as a two (2) batch leach solution closed circuit test.

Alkaline cyanide solution was continuously distributed onto the material through a header of Tygon tubing with glass-capillary drip tubes utilizing a peristaltic pump.

The leachate or pregnant leach solution (PLS) exiting the leach column was collected in the bottom tank. The PLS was checked each cycle for pH, gold, silver and sodium cyanide.

The solution was then passed through a bottle of activated carbon over a period of 24 hours to recover the gold and silver in solution. After passing through the bottle of activated carbon, the solution was re-assayed for pH, gold silver and sodium cyanide. Sodium cyanide was then added, if necessary, to maintain the solution at "target" levels. The leach solution was then recycled to the material for another 24 hour leach period.

Two (2) batches of leach solution were used so that while one batch was applied to the column, the other was run through the carbon.

A portion of the PLS from the Eagle Gold Master Composite HPGR crushed product column test was sampled twice weekly for Profile II analysis beginning on day 10 of the column leach test.

Following the active leach period (the period where the PLS was passed through activated carbon to recover the gold and silver in solution) the PLS from the column leach test was continuously recycled through the column at an application rate of 10 $L/hr/M^2$ for four (4) consecutive days (day 33-36 of the column leach test).

The recycled PLS (Batch 2) was then combined with the final barren solution from the active leach period (Batch 1). A portion of the combined solution was submitted for a Profile II analysis.

The remaining combined solution was then continuously applied to the column at an application rate of 10 $L/hr/M^2$. The PLS was sampled daily for a Profile II analysis. The PLS was recycled until the solution constituents approached equilibrium.

The final recycled PLS was combined with the remaining feed solution. The composite solution was measured and assayed for copper, iron, Weak Acid Dissociable (WAD) cyanide and total cyanide. A portion of the composite solution was submitted for a designated suite analysis. The remaining solution was utilized for detoxification test work.

The Profile II analyses for the PLS are presented in Table 7-1.

Table 7-1
Eagle Gold Project
Master Composite
KCA Sample No. 42979
KCA Test No. 43276
Leachate Chemistry

Parameter	Units	1-Dec	4-Dec	8-Dec	15-Dec	18-Dec	22-Dec	24-Dec	28-Dec	29-Dec	30-Dec	31-Dec	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	5-Jan Comp
Aluminum	mg/L	0.3	<0.3	<0.3	<0.3	<0.2	<0.2	0.1	0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Antimony	mg/L	0.012	0.015	0.013	0.031	0.036	0.059	0.054	0..062	0.068	0.075	0.076	0.080	0.085	0.094	0.092	0.099	0.095
Arsenic	mg/L	0.02	0.03	0.03	0.15	0.17	0.11	0.14	0.12	0.28	0.31	0.24	0.30	0.31	0.35	0.33	0.30	0.27
Barium	mg/L	0.71	0.058	0.057	0.083	0.064	0.072	0.06	0.051	0..061	0.065	0.056	0.062	0.061	0.070	0.076	0.067	0.069
Beryllium	mg/L	<0.005	<0.005	<0.005	<0.005	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Bismuth	mg/L	<0.5	<0.5	<0.5	<0.5	<0.4	<0.4	<0.2	<0.2	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Boron	mg/L	<0.3	<0.3	<0.3	<0.3	<0.2	<0.2	<0.1	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	mg/L	0.019	0.009	0.012	0.007	0.007	0.007	0.007	0.008	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010
Calcium	mg/L	260	220	200	240	220	180	180	140	190	200	170	170	170	190	210	200	200
Chromium	mg/L	0.035	0.03	0.027	0.02	0.013	0.012	0.014	0.014	0.013	0.013	0.010	0.010	0.009	0.009	0.008	0.008	0.008
Cobalt	mg/L	0.9	0.86	0.9	0.83	0.30	0.69	0.65	0.85	0.73	0.77	0.74	0.82	0.72	0.76	0.81	0.74	0.73
Copper	mg/L	8.8	7.9	9	6.6	5.3	7.5	7.7	8.6	9.0	9.1	9.2	9.3	9.3	9.3	9.8	8.3	8.3
Gallium	mg/L	<0.5	<0.5	<0.5	<0.5	<0.4	<0.4	<0.2	<0.2	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Iron	mg/L	1.7	1.7	1.8	1.9	1.6	2.1	1.9	2.2	2.3	2.4	2.2	2.2	2.2	2.2	2.4	2.6	2.5
Lanthanum	mg/L	<0.3	<0.3	<0.3	<3	<0.2	<0.2	<0.1	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Lead	mg/L	0.017	0.009	0.007	0.006	0.008	0.005	0.004	<0.004	<0.004	0.010	<0.004	0.008	0.004	<0.004	<0.004	<0.004	0.006
Lithium	mg/L	<0.5	<0.5	<0.5	<0.5	<0.4	<0.4	<0.2	<0.2	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Magnesium	mg/L	<3	<3	<3	<3	<2	<2	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Manganese	mg/L	0.01	<0.01	0.01	<0.01	<0.004	<0.004	<0.004	0.008	<0.004	<0.004	0.019	<0.008	<0.008	0.017	<0.008	<0.004	<0.004
Mercury	mg/L	0.0023	0.0012	0.001	0.0014	0.0012	<0.0002	0.0008	0.0003	0.0006	0.0008	0.0003	0.0005	0.0006	0.0010	0.0013	0.0009	0.0011
Molybdenum	mg/L	0.22	0.21	0.23	0.22	0.21	0.22	0.22	0.25	0.24	0.24	0.23	0.24	0.24	0.25	0.25	0.25	0.25
Nickel	mg/L	0.1	0.062	0.056	0.053	0.048	0.033	0.040	0.037	0.068	0.058	0.064	0.079	0.080	0.091	0.10	0.10	0.10
Potassium	mg/L	26	25	23	27	27	26	25	25	24	25	25	25	26	28	31	32	32
Scandium	mg/L	<0.3	<0.3	<0.3	<0.3	<0.2	<0.2	<0.1	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Selenium	mg/L	0.09	0.08	0.08	0.06	0.06	0.06	0.06	0.07	0.074	0.076	0.07	0.073	0.076	0.078	0.079	0.07	0.08
Silver	mg/L	0.017	0.01	0.009	0.006	<0.004	<0.004	<0.004	<0.004	0.004	<0.004	<0.004	0.006	0.005	0.006	0.007	0.007	0.007
Sodium	mg/L	400	390	380	520	570	640	700	730	650	660	610	630	650	690	770	760	780
Strontium	mg/L	8.4	6.7	6.1	3.2	6.1	5.5	5.6	5.2	5.2	5.4	4.9	5.1	5.1	5.5	6.2	6.0	6.1
Thallium	mg/L	<0.003	<0.003	<0.003	<0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tin	mg/L	<0.5	<0.5	<0.5	<0.5	<0.4	<0.4	<0.2	<0.2	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Titanium	mg/L	<0.3	<0.3	<0.3	<0.3	<0.2	<0.2	<0.1	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Vanadium	mg/L	0.046	0.061	0.082	0.11	0.12	0.1	0.11	0.12	0.11	0.1	0.11	0.11	0.11	0.11	0.10	0.097	0.096
Zinc	mg/L	8.8	6.7	7.8	5.7	6.0	6.2	6.2	6.7	7.5	7.7	7.4	7.8	7.7	7.8	8.0	7.8	7.8
pH	units	11.3	10.9	10.9	10.7	10.8	10.7	10.7	10.6	10.2	10.3	10.4	10.6	10.5	10.6	10.3	10.3	--
Free NaCN	g/L	0.58	0.44	0.38	0.53	0.55	0.48	0.45	0.37	0.43	0.45	0.31	0.36	0.33	0.46	0.59	0.41	--
Volume	L	10.83	9.37	10.11	8.46	9.43	8.85	9.38	16.1	8.44	8.11	7.34	7.99	6.51	9.09	8.02	6.65	--
Type	2 Batch System	P	P	P	P	P	P	P	P/B	P	P	P	P	P	P	P	P	P
Comments									Feed	Effluent 1	Effluent 2	Effluent 3	Effluent 4	Effluent 5	Effluent 6	Effluent 7	Effluent 8	Effluent 8 + Remaining Feed

Note: P/B - preg and barren combined - 28 December 2009.

Note: Metals Analyses only.

7.2 Detoxification Test Work

Detoxification test work utilizing a hydrogen peroxide (copper catalyzed peroxide) detoxification method was conducted on the column leach test residue.

The final recycled PLS was combined with the remaining feed solution. The combined solution was measured and assayed for copper, iron, Weak Acid Dissociable (WAD) cyanide and total cyanide. A portion of the combined solution was submitted for a designated suite analysis.

Based upon the copper and total cyanide analysis, copper sulfate pentahydrate ($CuSO_4.5H_2O$) and hydrogen peroxide (35% H_2O_2) were added to the remaining composite solution from the column leach test to reduce the WAD cyanide to less than 0.2 mg/L.

Copper sulfate pentahydrate ($CuSO_4.5H_2O$) was added to the composite solution to produce an overall copper level in solution of 20% of the WAD cyanide concentration. Hydrogen peroxide was added at a level equivalent to 300% of theoretical based upon the total cyanide level. The solution was then sparged with air and mixed for a period of four hours in an open vessel. After the four hour time period the solution was assayed for residual hydrogen peroxide and WAD cyanide before being cycled onto the column (Phase I).

The detoxification effluent was measured daily (days 1-6). Hydrogen peroxide and copper were added daily to the effluent based upon the initial total cyanide and copper levels. The effluents from day 7 and 8 of the detoxification period were measured, combined, assayed for copper, iron, Weak Acid Dissociable (WAD) cyanide, total cyanide and sampled for the designated suite analysis.

Based upon the copper and total cyanide analysis, copper sulfate pentahydrate was added to the composite solution to produce an overall copper level in solution of 20% of the WAD cyanide concentration. Hydrogen peroxide was added at a level equivalent to 500% of theoretical based upon the total cyanide level. The solution was sparged with air and mixed for a period of four hours in an open vessel. After the four hour time period the solution was assayed for residual hydrogen peroxide and WAD cyanide before being cycled onto the column (Phase II).

The detoxification procedure was continued until a WAD cyanide value less than 0.2 mg/L was obtained for three (3) consecutive days (Phase I-III). Following detoxification, the column was allowed to completely drain down. The final detoxification solution (final effluent plus drain down solutions) was sampled for the designated suite analysis.

The column was allowed to rest for a seven (7) day period prior to initiating modified Humidity Cell Testing (HCT).

The initial and final values for total and WAD cyanide are presented in Table 7-2.

Table 7-2.
Eagle Gold Project
Master Composite
HPGR Crushed Material
Summary of Detoxification Test Results
Total and WAD Cyanide

KCA Sample No.	KCA Test No.	Description	Detoxification Period, Days	Initial Total Cyanide, mg/L	Final Total Cyanide, mg/L	Initial WAD Cyanide, mg/L	Final WAD Cyanide, mg/L
42979	43276	Master Composite	27	288.6	2.07	268.4	0.16

7.3 Detoxification Procedure

The Master Composite HPGR column leach test (KCA Test No. 43276) was treated as follows:

1. The final recycled PLS was combined with the remaining feed solution. The combined solution was measured and assayed for copper, iron, WAD and total cyanide. A portion of the combined solution was submitted for a designated suite analysis.

2. Based upon the total cyanide and copper analysis, hydrogen peroxide and copper, if needed, were added to detoxify the combined solution, (copper catalyzed peroxide). The solution was then sparged with air and mixed for a period of four hours in an open vessel. After the four hour time period the solution was assayed for residual hydrogen peroxide and WAD cyanide before being cycled onto the column.

3. The columns were then restarted with the detoxified solution. Daily additions of hydrogen peroxide and copper were added to the leach solution based on the initial total cyanide and copper values. Solution circulation through the column material was continued.

4. Every seven (7) days thereafter, the effluent solutions from the two batch cycle were combined, sampled and analyzed. The hydrogen peroxide and copper additions were adjusted accordingly. Detoxification continued until a WAD cyanide value less than 0.2 mg/L was obtained for three (3) consecutive days.

5. The final detoxification solution (final effluent plus drain down solutions) were combined, thoroughly mixed and sampled for the designated suite analysis, WAD and total cyanide analyses.

6. The column was allowed to rest for a seven (7) day period prior to initiating modified Humidity Cell Testing (HCT).

Total chemical additions are summarized in Table 7-3.

Table 7-3.
Eagle Gold Project
Master Composite
HPGR Crushed Material
Detoxification Test Work
Summary of Chemical Additions

KCA Sample No.	KCA Test No.	Column Weight, kg	35% H_2O_2 Applied, gms	10 gpL $CuSO_4 \cdot 5H_2O$, mLs	100% H_2O_2 Applied, gms/MT	Copper Added, gms/MT
42979	43276	80	147.05	489	643	16

Daily detoxification data showing total and WAD cyanide analyses and chemical additions for the column are presented in Table 7-4 and Table 7-5.

Chemical additions of 35% H_2O_2 are reported in grams, (gms) added and copper, as 10g/L $CuSO_4.5H_2O$, are reported in milliliters, (mL), added. The complete results can be found in the Appendix.

The wet chemistry and metals analyses, total cyanide and weak acid dissociable cyanide analyses for the final recycled PLS solution, interim detoxification solutions and final detoxification solution are presented in Table 7-6.

Table 7-4.
Eagle Gold Project
Master Composite
KCA Sample No. 42979
KCA Test No. 43276
HPGR Crushed Material (Calculated P_{80} = 3.641 millimeters)
Daily Detoxification Data

Date	Description	P/D*	Cycle	pH	Free NaCN, gpL	Volume, kg	100% H_2O_2, grams	Cu, grams	WAD, mg/L	WAD, grams	Total, mg/L	Cu, mg/L	Fe, mg/L	H_2O_2, mg/L	Sample mLs out	Add H_2O_2:WAD CN	$CuSO_4$, mLs	35% H_2O_2, grams	Volume, kg
5-Jan	Start Detox	P	0	10.3	0.40	14.67			268.40	3.937	288.60	8.79	2.29		900				
6-Jan	Detox w/ Anal.	P/1	1	10.3	0.40	13.69	15.57	0.61	268.40	3.674	288.60	8.79	2.29		--	4	240.00	44.50	
7-Jan		D	2	8.5	<0.01	13.93			3.22	0.045		5.01	0.00	8	125				
8-Jan	Detox 1	P	3	10.4	0.39	6.26	7.12	0.14				8.31	2.30		50		55	20.35	6.26
9-Jan		D		8.5	<0.01	6.34						6.61	1.24	12	50				
9-Jan	Detox 1	P	4	10.6	0.16	7.71	8.77	0.17				2.37	0.00		50		68	25.06	7.71
10-Jan		D		8.5	<0.01	7.72						3.62	0.01	12	50				
10-Jan	Detox 1	P	5	10.5	0.11	6.65	7.56	0.15				1.26	0.47		50		59	21.61	6.65
11-Jan		D		8.5	<0.01	6.70						3.68	0.02	12	50				
11-Jan	Detox 1	P	6	10.0	0.17	7.65	8.70	0.17				1.16	0.27		50		67	24.86	7.65
12-Jan		D		8.5	<0.01	7.74						3.25	0.00	2	50				
12-Jan	Period 2	P	7	10.6	0.03	6.41						0.59	0.11		50				6.41
13-Jan	Period 2	P		10.6	0.01	8.18						0.42	0.15		50				8.18
13-Jan	Detox w/ Anal.	P/2	8	10.6	0.01	14.60	0.61	0.00	2.79	0.041	5.98	0.59	0.16		850	15	0	1.74	
14-Jan		D		10.0	<0.01	14.38			0.57	0.008	4.00	0.03	0.00	<1	250				
15-Jan	Detox 2	P	9	10.2	0.04	6.44	0.27	0.00				0.32	0.08		50		0	0.77	6.44
16-Jan		D		10.0	<0.01	6.44						0.46	0.00	<1	50				
16-Jan	Detox 2	P	10	10.0	0.02	7.51	0.31	0.00				0.16	0.04		50		0	0.90	7.51
17-Jan		D		10.0	<0.01	7.51						0.08	0.00	<1	50				
17-Jan	Detox 2	P	11	10.1	0.01	5.88	0.25	0.00				0.21	0.06		50		0	0.71	5.88
18-Jan		D		8.5	<0.01	5.88						0.90	0.00	<1	50				
18-Jan	Detox 2	P	12	10.2	0.01	5.22	0.22	0.00				0.21	0.05		50		0	0.63	5.22
19-Jan		D		8.6	<0.01	5.22						0.51	0.02	<1	50				
19-Jan	Detox 2	P	13	10.1	0.02	6.07	0.26	0.00				0.36	0.04		50		0	0.73	6.07
20-Jan		D		8.5	<0.01	6.07						0.04	0.00	<1	50				
20-Jan	Detox 2	P	14	10.1	<0.01	4.22	0.18	0.00				0.96	0.00		50		0	0.51	4.22
21-Jan		D		8.6	<0.01	4.22						0.11	0.00	<1	50				
21-Jan	Period 3	P	15	9.9	<0.01	4.63						0.04	0.06		50				4.63
22-Jan	Period 3	P		9.9	<0.01	4.92						0.02	0.01		50				4.92
22-Jan	Detox w/ Anal.	P/3	16	9.9	<0.01	9.55	0.40	0.00	0.38	0.004	4.05	0.03	0.02		850	111	0	1.15	

Note: P = Pregnant Solution and D = Detox Solution.

Table 7-5.
Eagle Gold Project
Master Composite
KCA Sample No. 42979
KCA Test No. 43276
HPGR Crushed Material (Calculated P_{80} = 3.641 millimeters)
Daily Detoxification Data

Date	Description	P/D*	Cycle	pH	Free NaCN, gpL	Volume, kg	100% H_2O_2, grams	Cu, grams	WAD, mg/L	WAD, grams	Total, mg/L	Cu, mg/L	Fe, mg/L	H_2O_2, mg/L	Sample mLs out	Add H_2O_2:WAD CN		$CuSO_4$, mLs	35% H_2O_2, grams	Volume, kg
23-Jan		D		8.8	<0.01	8.70			0.11	0.001	3.14	0.00	0.00	<1	250					
24-Jan	Detox 3	P	17	10.2	<0.01	5.00	0.21	0.00				0.00	0.04		25			0	0.60	5.00
25-Jan		D		8.2	<0.01	5.00						0.27	0.00	<1	25					
25-Jan	Detox 3	P	18	10.1	<0.01	4.93	0.21	0.00				0.00	0.00		25			0	0.59	4.93
26-Jan		D		8.9	<0.01	4.93						0.00	0.00	<1	25					
26-Jan	Detox 3	P	19	9.9	<0.01	5.05	0.21	0.00				0.57	0.00		25			0	0.61	5.05
27-Jan		D		8.6	<0.01	5.05						0.00	0.00	<1	25					
27-Jan	Detox 3	P	20	9.6	<0.01	4.64	0.20	0.00				0.39	0.00		25			0	0.56	4.64
28-Jan		D		8.4	<0.01	4.64						0.03	0.00	<1	25					
28-Jan	Detox 3	P	21	9.8	<0.01	4.76	0.20	0.00				0.01	0.00		25			0	0.56	4.76
29-Jan		D		8.5	<0.01	4.76						0.08	0.00	<1	25					
29-Jan	Detox 3	P	22	9.8	<0.01	5.11	0.21	0.00				0.00	0.00					0	0.61	5.11
30-Jan		D		8.6	<0.01	5.11						0.00	0.00	<1	25					
30-Jan	Period 4	P	23	9.8	<0.01	5.00						0.08	0.00		25					5.00
31-Jan	Period 4	P		9.8	<0.01	4.87						0.08	0.00		25					4.87
1-Feb	Cycle w/ Anal.	P/4	24	9.8	<0.01	9.87			0.16	0.002	2.07	0.08	0.03			0				
Total -							51.44	1.24										489	147.05	127.11

Note: P = Pregnant Solution and D = Detox Solution.

Table 7-6.
Eagle Gold Project
Master Composite
KCA Sample No. 42979
KCA Test No. 43276
HPGR Crushed Material (Calculated P_{80} = 3.641 millimeters)
Detoxification Solution Analyses

Parameter	Units	WETLAB 1001034-001 5-Jan-10	WETLAB 1001094-001 13-Jan-10	WETLAB 1001201-001 22-Jan-10	WETLAB 1002002-001 1-Feb-10
Cyanate	mg/L	27	69	390	210
Thiocyanate	mg/L	120	310	<100	<100
Ammonia, as nitrogen	mg/L	46	44	71	60
pH	Units	10.38 (10.3)	10.00 (10.6)	9.18 (9.9)	9.85
Bicarbonate (HCO_3)	mg/L	<1.0	6.0	70.0	<1.0
Carbonate (CO_3)	mg/L	190	100	34	49
Hydroxide (OH)	mg/L	84	<1.0	<1.0	6.0
Total Alkalinity	mg/L as $CaCO_3$	570	170	110	99
Chloride	mg/L	35	30	39	44
Fluoride	mg/L	<1.0	<1.0	<0.50	<0.50
Sulfate	mg/L	990	1000	1400	1400
Nitrate Nitrogen	mg/L	<10	<10	2.9	2.9
Nitrite Nitrogen	mg/L	0.43	0.61	2.1	1.7
Total Kjeldahl Nitrogen	mg/L	74	130	130	99
Total Nitrogen	mg/L	75	130	140	100
Total Cyanide	mg/L	380 (288.60)	290 (5.98)	0.82 (4.05)	0.33 (2.07)
Total Dissolved Solids (TDS)	mg/L	2500	2300	2800	2600
WAD Cyanide	mg/L	280 (268.40)	1.3 (2.79)	0.3 (0.38)	0.11 (0.16)
Silica	mg/L	28	26	25	27
Aluminum	mg/L	0.090	0.072	<0.045	0.047
Barium	mg/L	0.061	0.049	0.059	0.056
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	<0.10	<0.10	<0.10	<0.10
Cadmium	mg/L	0.0055	<0.0010	<0.0010	<0.0010
Calcium	mg/L	180	150	200	170
Chromium	mg/L	0.014	0.013	0.0057	0.0050
Cobalt	mg/L	0.86	0.81	1.0	0.96
Copper	mg/L	9.1 (8.79)	0.55 (0.59)	0.11 (0.03)	<0.050 (0.08)
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	2.6 (2.29)	0.12 (0.16)	0.062 (0.02)	0.034 (0.03)
Lead	mg/L	<0.010	<0.010	<0.010	<0.010
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	<0.0050	<0.0050	<0.0050	<0.0050
Molybdenum	mg/L	0.22	0.19	0.25	0.22
Nickel	mg/L	0.095	0.019	<0.010	<0.010
Phosphorous	mg/L	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	34	25	30	27
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	0.0085	<0.0050	<0.0050	<0.0050
Sodium	mg/L	780	640	780	710
Strontium	mg/L	6.1	4.3	6.1	5.1
Tin	mg/L	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.094	0.1	0.068	0.061
Zinc	mg/L	8.2	<0.010	<0.010	0.024
Mercury	mg/L	0.086	0.076	0.059	0.079
Antimony	mg/L	0.095	0.13	0.17	0.27
Arsenic	mg/L	0.15	0.56	0.45	0.67
Selenium	mg/L	0.068	0.055	0.070	0.069
Thallium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Uranium	mg/L	<0.0020	<0.0020	<0.010	<0.010

Notes: KCA results shown in ( ). Increase in results shown in red. Analysis ? Shown in blue.

8.0 Humidity Cell Test Work

9.0 Assaying Procedures

9.1 Heads and Tails

Head assays were run as one assay ton fire assays on duplicate splits for gold and silver. For gold analyses gravimetric and AA finish were utilized. The silver analyses were completed by gravimetric finish.

Tailings assays were run as one assay ton fire assays on duplicate splits for gold and silver analyses by standard fire assay methods with flame atomic absorption spectrophotometer (FAAS) finish for gold and gravimetric and four (4) acid digestion finish for silver.

9.2 Carbon Assays

The loaded granular activated carbon was dried and weighed. Two samples were split out and assayed and the remainder saved for reference. The carbon for assay was roasted to convert it to ash, then conventionally fire assayed.

9.3 Solution Assays

Solution assays were made every cycle on an atomic absorption spectrophotometer, using gold and silver standards. The solution assays were used merely to check on the progress of the column tests, since actual extractions were based on fire assays of the activated carbon.

9.4 Cyanide Assays

Sodium cyanide concentrations in leach solutions were determined using a colorimetric titration using a silver nitrate titrant and 5-[p-(Dimethylamino)- benzylidene]-rhodanine as the indicator. Free cyanide was determined by titrating 25 mL of the leach solution to the colorimetric end point. A few drops of 1N sodium hydroxide solution were then added to break up any base metal cyanide complexes and the titration continued until the end point was reached again to determine the "total" cyanide in solution.

9.5 Multi-Element and Whole Rock Assays

Material for a multi-element analysis was digested using a four acid digestion. This digestion provided a total digestion. The resulting solution was then assayed semi-quantitatively by means of a Perkin-Elmer 2000 DV ICAP-OES. Whole rock analysis was conducted using a lithium metaborate fusion followed by ICAP-OES analysis. Certified standards were utilized for both types of analyses.

9.6 Carbon and Sulfur Assays

Carbon and sulfur speciation were determined by means of a LECO CS 400 carbon/sulfur determinator with induction furnace. Each sample set included two quality control samples, a blank and a standard check.

Appendix

Project:	Eagle Gold																									
Sample Description:	Master Composite																									
Test No.:	43276																									
Sample I.D.:	42979																									
Initial Ht., meters:	1.7018																									
Crush Size, mm:	12.5																									
Column I.D., meters:	0.203																									

Head Screen, gms Au/MT:	0.506		gms Ag/MT:	1.79																						
Head Assay, gms Au/MT:	n/a		gms Ag/MT:	n/a																						
Extracted, gms Au/MT:	0.395		gms Ag/MT:	0.10																						
Tail Assay, gms Au/MT:	n/a		gms Ag/MT:	n/a																						
Est. Calculated Head, gms Au/MT:	0.413		gms Ag/MT:	1.76																						
Weight of Sample, kg:	80.00																									
Column Surface Area, square meters:	0.032																									
Cement Addition, grams:	160.00		kg/MT:	2.00																						
Hydrated Lime Addition, grams:	0.00		kg/MT:	0.00																						

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg. L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Recov., gms Au/MT	Recovered Gold Solution	Cumulative Recovered Gold Solution	Percent of Total Recovered Gold	Solution, gms Ag/MT	Solution Cumulative Recov., gms Ag/MT	Recovered Silver Solution	Cumulative Recovered Silver Solution
21-Nov	---	---	---	0.00	0.00	14.15	0.00		14,150	---	---	---	---	---			0.00	0.000	0.0%			0.00	0.00	0.0%	
21-Nov	---	---	---	---	---	---		0	---	---	---	---	---	---	0.00	0.09	0.00	0.000	0.0%	0%	0%	0.00	0.00	0.0%	0%
22-Nov	---	---	---	0.00	0.00	9.30	0.18		9,300	---	---	---	---	---			0.00	0.000	0.0%			0.00	0.00	0.0%	
22-Nov	11.5	0.73	0.73	---	---	---		1	---	C-1	2.11	0.71	21.8	7,190	9.24	0.09	0.19	0.190	45.9%	46%	48%	0.06	0.06	3.6%	4%
23-Nov	10.4	0.47	0.47	0.00	0.00	2.10	0.23		2,100	---	0.00	0.01	---	7,190			0.00	0.190	0.0%			0.00	0.06	-0.1%	
23-Nov	11.3	1.00	1.00	---	---	---		2	---	---	0.52	0.10	3.87	9,400	12.08	0.21	0.06	0.251	14.8%	61%	64%	0.01	0.07	0.7%	4%
24-Nov	10.9	0.95	0.95	0.00	0.00	0.00	0.14		---	---	0.00	0.01	---	9,400			0.00	0.251	0.0%			0.00	0.07	-0.1%	
24-Nov	11.2	0.59	0.59	---	---	---		3	---	---	0.26	0.03	4.63	8,460	10.87	0.31	0.03	0.278	6.7%	67%	71%	0.00	0.08	0.2%	4%
25-Nov	11.2	0.57	0.57	0.00	0.00	0.73	0.12		800	---	0.00	0.00	---	8,460			0.00	0.278	0.0%			0.00	0.08	0.0%	
25-Nov	11.5	0.63	0.63	---	---	---		4	---	---	0.15	0.03	9.8	8,590	11.04	0.42	0.02	0.294	3.9%	71%	75%	0.00	0.08	0.2%	5%
26-Nov	11.3	0.60	0.60	0.00	0.00	0.70	0.17		700	---	0.02	0.01	---	8,590			0.00	0.292	-0.5%			0.00	0.08	-0.1%	
26-Nov	11.4	0.76	0.76	---	---	---		5	---	---	0.14	0.02	---	9,120	11.72	0.53	0.02	0.308	3.9%	75%	78%	0.00	0.08	0.1%	5%
27-Nov	11.3	0.71	0.71	0.00	0.00	0.00	0.15		---	---	0.02	0.00	---	9,120			0.00	0.306	-0.6%			0.00	0.08	0.0%	
27-Nov	11.5	0.60	0.60	---	---	---		6	---	---	0.16	0.01	---	7,690	9.88	0.63	0.02	0.321	3.7%	78%	81%	0.00	0.08	0.1%	5%
28-Nov	11.1	0.60	0.60	0.00	0.00	1.60	0.16		1,600	---	0.01	0.00	---	7,690			0.00	0.320	-0.2%			0.00	0.08	0.0%	
28-Nov	11.4	0.62	0.62	---	---	---		7	---	---	0.07	0.01	8.27	10,650	13.68	0.76	0.01	0.330	2.3%	80%	84%	0.00	0.08	0.1%	5%
29-Nov	11.3	0.56	0.56	0.00	0.00	0.00	0.18		---	---	0.00	0.00	---	10,650			0.00	0.330	0.0%			0.00	0.08	0.0%	
29-Nov	11.5	0.68	0.68	---	---	---		8	---	---	0.08	0.01	8.48	8,390	10.78	0.87	0.01	0.338	2.0%	82%	86%	0.00	0.08	0.1%	5%
30-Nov	11.2	0.63	0.63	0.00	0.00	0.72	0.16		1,600	---	0.00	0.00	---	8,390			0.00	0.338	0.0%			0.00	0.08	0.0%	
30-Nov	11.5	0.57	0.57	---	---	---		9	---	---	0.04	0.01	---	10,280	13.21	1.00	0.01	0.343	1.2%	83%	87%	0.00	0.09	0.1%	5%
1-Dec	11.1	0.55	0.55	0.00	0.00	0.00	0.17		---	XC-1	0.00	0.00	---	10,280			0.00	0.343	0.0%			0.00	0.09	0.0%	
1-Dec	11.3	0.58	0.58	---	---	---		10	---	C-2	0.02	0.01	---	10,830	13.91	1.13	0.00	0.346	0.7%	84%	88%	0.00	0.09	0.1%	5%
2-Dec	10.9	0.45	0.45	0.00	0.00	0.00	0.16		---	---	0.00	0.00	---	10,830			0.00	0.346	0.0%			0.00	0.09	0.0%	
2-Dec	11.4	0.57	0.57	---	---	---		11	---	---	0.06	0.01	7.98	9,590	12.32	1.25	0.01	0.353	1.7%	85%	89%	0.00	0.09	0.1%	5%
3-Dec	11.0	0.50	0.50	0.00	0.00	0.00	0.16		---	---	0.00	0.00	---	9,590			0.00	0.353	0.0%			0.00	0.09	0.0%	
3-Dec	11.4	0.54	0.54	---	---	---		12	---	---	0.04	0.01	---	10,630	13.66	1.39	0.01	0.358	1.3%	87%	91%	0.00	0.09	0.1%	5%
4-Dec	10.6	0.47	0.47	0.00	0.00	0.00	0.15		---	---	0.00	0.00	---	10,630			0.00	0.358	0.0%			0.00	0.09	0.0%	
4-Dec	10.9	0.44	0.44	---	---	---		13	---	---	0.03	0.01	---	9,370	12.04	1.50	0.00	0.362	0.9%	88%	92%	0.00	0.09	0.1%	5%
5-Dec	10.9	0.69	0.69	0.00	0.00	0.00	0.16		---	---	0.00	0.00	---	9,370			0.00	0.362	0.0%			0.00	0.09	0.0%	
5-Dec	11.1	0.71	0.71	---	---	---		14	---	---	0.03	0.01	---	8,660	11.13	1.61	0.00	0.365	0.8%	88%	93%	0.00	0.09	0.1%	5%
6-Dec	10.9	0.42	0.42	0.00	0.00	0.00	0.15		---	---	0.00	0.00	---	8,660			0.00	0.365	0.0%			0.00	0.09	0.0%	
6-Dec	11.1	0.43	0.43	---	---	---		15	---	---	0.01	0.00	---	10,670	13.71	1.74	0.00	0.366	0.3%	89%	93%	0.00	0.09	0.0%	5%
7-Dec	10.5	0.44	0.44	0.00	0.00	0.00	0.17		---	---	0.00	0.00	---	10,670			0.00	0.366	0.0%			0.00	0.09	0.0%	
7-Dec	10.9	0.38	0.38	---	---	---		16	---	---	0.02	0.01	---	8,610	11.06	1.85	0.00	0.369	0.5%	89%	93%	0.00	0.09	0.1%	5%
8-Dec	10.5	0.43	0.43	0.00	0.00	0.00	0.17		---	---	0.00	0.00	---	8,460			0.00	0.369	0.0%			0.00	0.09	0.0%	
8-Dec	10.9	0.38	0.38	---	---	---		17	---	---	0.00	0.00	---	10,110	12.99	1.98	0.00	0.369	0.0%	89%	93%	0.00	0.09	0.0%	5%
9-Dec	10.6	0.34	0.34	0.00	0.00	2.60	0.19		---	---	0.01	0.00	---	10,110			0.00	0.367	-0.3%			0.00	0.09	0.0%	
9-Dec	10.9	0.34	0.34	---	---	---		18	---	---	0.03	0.01	6.82	8,650	11.11	2.09	0.00	0.371	0.8%	90%	94%	0.00	0.09	0.1%	5%
10-Dec	10.5	0.34	0.34	0.00	0.00	2.90	0.23		600	---	0.01	0.00	---	8,650			0.00	0.370	-0.3%			0.00	0.09	0.0%	
10-Dec	10.9	0.33	0.33	---	---	---		19	---	---	0.03	0.00	---	9,150	11.76	2.20	0.00	0.373	0.8%	90%	95%	0.00	0.09	0.0%	5%
11-Dec	10.4	0.30	0.30	0.00	0.00	2.80	0.27		---	---	0.00	0.00	---	9,150			0.00	0.373	0.0%			0.00	0.09	0.0%	
11-Dec	10.8	0.54	0.54	---	---	---		20	---	---	0.00	0.01	---	9,760	12.54	2.32	0.00	0.373	0.0%	90%	95%	0.00	0.10	0.1%	5%
12-Dec	10.6	0.45	0.45	0.00	0.00	0.00	0.27		---	XC-2	0.00	0.01	---	9,760			0.00	0.373	0.0%			0.00	0.09	-0.1%	

Project:	Eagle Gold																								
Sample Description:	Master Composite																								
Test No.:	43276																								
Sample I.D.:	42979																								
Initial Ht., meters:	1.7018																								
Crush Size, mm:	12.5																								
Column I.D., meters:	0.203																								

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Crush Size, mm:	12.5																									
Column I.D., meters:	0.203																									

Head Screen, gms Au/MT:	0.506		gms Ag/MT:	1.79																						
Head Assay, gms Au/MT:	n/a		gms Ag/MT:	n/a																						
Extracted, gms Au/MT:	0.395		gms Ag/MT:	0.10																						
Tail Assay, gms Au/MT:	n/a		gms Ag/MT:	n/a																						
Est. Calculated Head, gms Au/MT:	0.413		gms Ag/MT:	1.76																						
Weight of Sample, kg:	80.00																									
Column Surface Area, square meters:	0.032																									
Cement Addition, grams:	160.00		kg/MT:	2.00																						
Hydrated Lime Addition, grams:	0.00		kg/MT:	0.00																						

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Recov., gms Au/MT	Recovered Gold Solution	Cumulative Recovered Gold Solution	Percent of Total Recovered Gold	Solution, gms Ag/MT	Solution Cumulative Recov., gms Ag/MT	Recovered Silver Solution	Cumulative Recovered Silver Solution
1-Jan	10.6	0.36	0.36	---	---	---		41	---	---	0.05	0.01	8.36	4,990	6.41	4.26	0.00	0.396	0.8%	96%	100%	0.00	0.10	0.0%	6%
2-Jan	10.6	0.36	0.36	0.00	0.00	0.00	0.51		---	---	0.05	0.01	---	4,990			0.00	0.393	-0.8%			0.00	0.10	0.0%	
2-Jan	10.5	0.33	0.33	---	---	---		42	---	---	0.04	0.01	8.60	6,510	8.36	4.34	0.00	0.396	0.8%	96%	100%	0.00	0.10	0.0%	6%
3-Jan	10.5	0.33	0.33	0.00	0.00	1.80	0.51		---	---	0.04	0.01	---	6,510			0.00	0.393	-0.8%			0.00	0.10	0.0%	
3-Jan	10.6	0.46	0.46	---	---	---		43	---	---	0.04	0.01	8.43	9,090	11.68	4.45	0.00	0.397	1.1%	96%	101%	0.00	0.10	0.1%	6%
4-Jan	10.6	0.46	0.46	0.00	0.00	0.00	0.50		---	---	0.04	0.01	---	9,090			0.00	0.393	-1.1%			0.00	0.10	-0.1%	
4-Jan	10.3	0.59	0.59	---	---	---		44	---	---	0.04	0.01	---	8,020	10.30	4.55	0.00	0.397	1.0%	96%	101%	0.00	0.10	0.1%	6%
5-Jan	10.3	0.59	0.59	0.00	0.00	0.00	0.47		---	---	0.04	0.01	---	8,020			0.00	0.393	-1.0%			0.00	0.10	-0.1%	
5-Jan	10.3	0.41	0.41	---	---	---		45	---	---	0.06	0.01	---	6,650	8.54	4.63	0.00	0.398	1.2%	96%	101%	0.00	0.10	0.0%	6%
8-Jan	10.3	0.41	0.41	0.00	0.00	0.00	0.49		---	---	0.06	0.01	---	6,650			0.00	0.393	-1.2%			0.00	0.10	0.0%	
8-Jan	10.4	0.39	0.39	---	---	---		48	---	---	0.06	0.02	8.31	6,260	8.04	4.71	0.00	0.397	1.1%	96%	101%	0.00	0.10	0.1%	6%
11-Jan	10.4	0.39	0.39	0.00	0.00	0.00	0.51		---	---	0.06	0.02	---	6,260			0.00	0.393	-1.1%			0.00	0.10	-0.1%	
11-Jan	10.0	0.17	0.17	---	---	---		51	---	---	0.05	0.01	1.16	7,650	9.83	4.81	0.00	0.397	1.2%	96%	101%	0.00	0.10	0.1%	6%
12-Jan	10.0	0.17	0.17	0.00	0.00	0.00	0.53		---	---	0.05	0.01	---	7,650			0.00	0.393	-1.2%			0.00	0.10	-0.1%	
12-Jan	10.6	0.03	0.03	---	---	---		52	---	---	0.03	0.01	0.59	6,410	8.24	4.89	0.00	0.395	0.6%	96%	100%	0.00	0.10	0.0%	6%
13-Jan	10.6	0.01	0.01	0.00	0.00	0.00	0.56		---	---	0.03	0.01	---	6,410			0.00	0.393	-0.6%			0.00	0.10	0.0%	
13-Jan	10.6	0.01	0.01	---	---	---		53	---	---	0.05	0.01	0.42	8,190	10.52	4.99	0.01	0.398	1.2%	96%	101%	0.00	0.10	0.1%	6%
15-Jan	10.2	0.04	0.04	0.00	0.00	0.00	0.58		---	---	0.05	0.01	---	8,190			-0.01	0.393	-1.2%			0.00	0.10	-0.1%	
15-Jan	10.2	0.04	0.04	---	---	---		55	---	---	0.03	0.00	0.32	6,440	8.27	5.07	0.00	0.395	0.6%	96%	100%	0.00	0.10	0.0%	6%
16-Jan	10.0	0.02	0.02	0.00	0.00	0.00	0.57		---	---	0.03	0.00	---	6,440			0.00	0.393	-0.6%			0.00	0.10	0.0%	
16-Jan	10.0	0.02	0.02	---	---	---		56	---	---	0.02	0.01	0.16	7,510	9.65	5.16	0.00	0.395	0.5%	96%	100%	0.00	0.10	0.1%	6%
17-Jan	10.1	0.01	0.01	0.00	0.00	0.00	0.58		---	---	0.02	0.01	---	7,510			0.00	0.393	-0.5%			0.00	0.10	-0.1%	
17-Jan	10.1	0.01	0.01	---	---	---		57	---	---	0.04	0.01	0.21	5,880	7.55	5.24	0.00	0.396	0.7%	96%	100%	0.00	0.10	0.0%	6%
18-Jan	10.2	0.01	0.01	0.00	0.00	0.00	0.58		---	---	0.04	0.01	---	5,880			0.00	0.393	-0.7%			0.00	0.10	0.0%	
18-Jan	10.2	0.01	0.01	---	---	---		58	---	---	0.07	0.00	0.21	5,220	6.71	5.30	0.00	0.397	1.1%	96%	101%	0.00	0.10	0.0%	6%
19-Jan	10.1	0.01	0.01	0.00	0.00	0.00	0.58		---	---	0.07	0.00	---	5,220			0.00	0.393	-1.1%			0.00	0.10	0.0%	
19-Jan	10.1	0.01	0.01	---	---	---		59	---	---	0.02	0.00	0.36	6,070	7.80	5.38	0.00	0.394	0.4%	95%	100%	0.00	0.10	0.0%	6%
20-Jan	9.9	0.01	0.01	0.00	0.00	0.00	0.58		---	---	0.04	0.01	---	6,070			0.00	0.391	-0.7%			0.00	0.10	0.0%	
20-Jan	9.9	0.01	0.01	---	---	---		60	---	---	0.04	0.01	0.41	4,630	5.95	5.44	0.00	0.393	0.6%	95%	100%	0.00	0.10	0.0%	6%
21-Jan	10.1	0.01	0.01	0.00	0.00	0.00	0.58		---	---	0.04	0.00	---	4,630			0.00	0.391	-0.6%			0.00	0.10	0.0%	
21-Jan	10.1	0.01	0.01	---	---	---		61	---	---	0.04	0.00	0.04	4,220	5.42	5.49	0.00	0.393	0.5%	95%	100%	0.00	0.10	0.0%	6%
22-Jan	8.8	0.01	0.01	0.00	0.00	0.00	0.58		---	---	0.05	0.00	---	4,220			0.00	0.391	-0.6%			0.00	0.10	0.0%	
22-Jan	8.8	0.01	0.01	---	---	---		62	---	---	0.05	0.00	0.02	4,920	6.32	5.55	0.00	0.394	0.7%	95%	100%	0.00	0.10	0.0%	6%
24-Jan	10.2	0.01	0.01	0.00	0.00	0.00	0.58		---	---	0.04	0.00	---	4,920			0.00	0.391	-0.6%			0.00	0.10	0.0%	
24-Jan	10.2	0.01	0.01	---	---	---		64	---	---	0.04	0.00	0	5,000	6.42	5.61	0.00	0.394	0.6%	95%	100%	0.00	0.10	0.0%	6%
25-Jan	10.1	0.01	0.01	0.00	0.00	0.00	0.58		---	---	0.05	0.01	---	5,000			0.00	0.391	-0.8%			0.00	0.10	0.0%	
25-Jan	10.1	0.01	0.01	---	---	---		65	---	---	0.05	0.00	1.27	4,930	6.33	5.68	0.00	0.394	0.7%	95%	100%	0.00	0.10	0.0%	6%
26-Jan	9.9	0.01	0.01	0.00	0.00	0.00	0.58		---	---	0.02	0.00	---	4,930			0.00	0.392	-0.3%			0.00	0.10	0.0%	
26-Jan	9.9	0.01	0.01	---	---	---		66	---	---	0.02	0.00	0.57	5,050	6.49	5.74	0.00	0.394	0.3%	95%	100%	0.00	0.10	0.0%	6%
27-Jan	9.6	0.01	0.01	0.00	0.00	0.00	0.58		---	---	0.06	0.00	---	5,050			0.00	0.390	-0.9%			0.00	0.10	0.0%	
27-Jan	9.6	0.01	0.01	---	---	---		67	---	---	0.06	0.00	0	4,640	5.96	5.80	0.00	0.393	0.8%	95%	100%	0.00	0.10	0.0%	6%
28-Jan	9.8	0.01	0.01	0.00	0.00	0.00	0.58		---	---	0.04	0.00	---	4,640			0.00	0.391	-0.6%			0.00	0.10	0.0%	
28-Jan	9.8	0.01	0.01	---	---	---		68	---	---	0.04	0.00	0.01	4,760	6.12	5.86	0.00	0.394	0.6%	95%	100%	0.00	0.10	0.0%	6%
29-Jan	9.8	0.01	0.01	0.00	0.00	0.00	0.58		---	---	0.04	0.00	---	4,760			0.00	0.391	-0.6%			0.00	0.10	0.0%	
29-Jan	9.8	0.01	0.01	---	---	---		69	---	---	0.04	0.00	0.08	5,110	6.57	5.92	0.00	0.394	0.6%	95%	100%	0.00	0.10	0.0%	6%
3-Feb	9.7	0.01	0.01	0.00	0.00	0.00	0.58		---	---	0.04	0.00	---	5,100			0.00	0.391	-0.6%			0.00	0.10	0.0%	
3-Feb	9.7	0.01	0.01	---	---	---		74	---	---	0.04	0.00	0.05	7,110	9.14	6.01	0.00	0.395	0.9%	96%	100%	0.00	0.10	0.0%	6%
4-Feb	9.7	0.01	0.01	0.00	0.00	0.00	0.58		---	---	0.06	0.00	---	7,110			-0.01	0.389	-1.3%			0.00	0.10	0.0%	
4-Feb	9.7	0.01	0.01	---	---	---		75	---	---	0.06	0.00	0	6,970	8.96	6.10	0.01	0.395	1.3%	96%	100%	0.00	0.10	0.0%	6%

Appendix C2: Report on 2012/2013 Metallurgical Test Work (Pending)

Eagle Gold Project
Report of Metallurgical Test Work
December 2013

Prepared for:

StrataGold Corporation
680-1066 West Hastings Street
Vancouver, BC V6E 3X2
Canada

Prepared by:

Kappes, Cassiday & Associates
7950 Security Circle
Reno, Nevada 89506

Project No. 366C **File: 8166**

Report I.D.: KCA0120021_EG05_01

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16 December 2013

Eagle Gold Project
Report of Metallurgical Test Work

1.0 Summary of Metallurgical Test Work

On 2 November 2009, the laboratory facility of Kappes, Cassiday & Associates (KCA) in Reno, Nevada received three (3) supersacks of bulk pit material from the Eagle Gold Project in the Central Yukon Territory. Each supersack represented a single sample (Pit 1, Pit 2 and Pit 3), and was assigned a unique sample number. All three (3) samples were identified by the client as Type A material, and were prepared and utilized for metallurgical test work by KCA.

From each of the bulk pit samples, a 150 kilogram portion of material was split out and combined to generate a single composite. The Pit 1, 2 and 3 Composite material was assigned a unique sample number and was then prepared and utilized for test work completed by KCA.

On 16 November 2011, the laboratory facility of KCA received twenty-six (26) core interval samples from the Eagle Gold Project. The samples consisted of half split HQ and PQ core, and were identified by interval length and ore type information provided by the client. Each interval sample was assigned a unique sample number and was prepared and utilized for metallurgical test work by KCA.

For the test work summarized in this report; reject material from each interval sample was utilized to generate four (4) Ore Type Composites based on information provided by the client. Each Ore Type Composite was then combined and blended with a portion of reject material from the Pit 1, 2 and 3 Composite, and a portion of reject material from one interval sample (DG-MET-23). The newly generated composite was labeled as the Environmental Composite. The Environmental Composite was then prepared and utilized for the test program summarized in this report.

All preparation, assaying and metallurgical studies were performed utilizing accepted industry standard procedures.

1.1 Sample Receipt and Preparation

A total of four (4) Ore Type Composites were generated from the received core material (Type A, B, C and E). Each composite was generated utilizing reject interval material prepared in a previous test program. Each composite was assigned a unique composite number (KCA Composite Nos. 48154 through 48157) and was utilized as a constituent for the Environmental Composite.

The Environmental Composite was generated by combining a portion of the previously generated Pit 1, 2 and 3 Composite material (KCA Sample No. 48126), the four (4) Ore Type Composites (KCA Composite Nos. 48154 through 48157) and a portion of reject material from one interval sample (DG-MET-23, KCA Sample No. 48150). The Environmental Composite was generated according to information provided by the client, and was assigned a unique sample number (KCA Sample No. 48158).

The Environmental Composite was prepared and utilized for head analyses, bottle roll leach test work and column leach test work. On the tailings material from each column leach test, detoxification test work was conducted. The detoxified tailings from select columns were further utilized for humidity cell test work. Additionally, the final tailings from select tests were utilized for compacted permeability test work.

The detailed sample receipt and preparation information is presented in Section 2 of this report.

A summary of the Environmental Composite generation is presented in Table 1-1.

Table 1-1.
Eagle Gold Project
Summary of Environmental Composite Generation

KCA Sample/Composite No.	Description	Ore Type	Type of Material	Weight to Composite, kg	Weight to Composite, %
48126	Pit 1, 2 and 3	A	Surface Pit	59.5	17%
48154	DG11-MET-03, 05, 09, 12, 15, 21	A	Core	59.5	17%
48155	DG11-MET-02, 04, 06, 08, 10, 14, 16, 13, 17, 22, 24	B	Core	159.5	45%
48156	DG11-MET-01, 18, 19, 20	C	Core	44.0	13%
48150	DG-MET-23	E	Core	5.25	1%
48157	DG11-MET-25, 26	E	Core	23.45	7%
			Total:	351.2	100%

1.2 Head Analyses

Portions of the head material from the Environmental Composite were ring and puck pulverized and analyzed for gold and silver by standard fire assay and wet chemistry methods. Head material was also assayed semi-quantitatively for an additional series of elements and for whole rock constituents. In addition to these semi-quantitative analyses, the head material was assayed by quantitative methods for carbon, sulfur and mercury. A cyanide shake test was also conducted on a portion of the pulverized head material.

In addition to the analyses on pulverized head material, a portion of crushed composite material (target p80 6.3 millimeters) was utilized for head screen analyses with assays by size fraction.

A summary of the head analyses for gold and silver is presented in Table 1-2.

The detailed head analyses are presented in Section 3 of this report.

Table 1-2.
Eagle Gold Project
Summary of Head Analyses

KCA Sample No.	Description	Average Assay, gms Au/MT	Average Assay, gms Ag/MT	Weighted Avg. Head Assay, gms Au/MT	Weighted Avg. Head Assay, gms Ag/MT
48158	Environmental Composite	0.961	0.62	1.077	0.56

1.3 Bottle Roll Leach Test Work

Bottle roll leach testing was conducted on a portion of the Environmental Composite material. A 1,000 gram portion of head material was ring and puck pulverized to a target size of 80% passing 0.075 millimeters, and the pulverized material was utilized for a 48 hour leach test. The test was maintained at a target concentration of 1.0 grams sodium cyanide per liter of solution.

A summary of the bottle roll leach test work is presented in Table 1-3.

The detailed bottle roll leach test work is presented in Section 4 of this report.

Table 1-3.
Eagle Gold Project
Summary of Bottle Roll Leach Test Work

KCA Sample No.	KCA Test No.	Sample I.D.	Calculated Head, gms Au/MT	Au Extracted, %	Leach Time, hours	Consumption NaCN, kg/MT	Addition $Ca(OH)_2$, kg/MT
48158	63511 B	Environmental Composite	0.678	92%	48	0.29	1.00

KCA Sample No.	KCA Test No.	Sample I.D.	Calculated Head, gms Ag/MT	Ag Extracted, %	Leach Time, hours	Consumption NaCN, kg/MT	Addition $Ca(OH)_2$, kg/MT
48158	63511 B	Environmental Composite	0.45	54%	48	0.29	1.00

1.4 Preliminary Agglomeration Test Work

Preliminary agglomeration test work was conducted on portions of the Environmental Composite material. A total of three (3) agglomeration tests were conducted utilizing 2 kilogram portions of material crushed to the size of 100% passing 9.5 millimeters and agglomerated with 0, 2.5 or 5 kilograms cement per metric tonne of dry ore.

All agglomeration tests passed the criteria put forth by KCA. The pH of the material was low in the tests which did not utilize cement; the addition of lime can resolve this problem.

After completion of this portion of the test program, and after discussion with the client, the material utilized for each column leach test was agglomerated with 3 kilograms cement per metric tonne of dry ore.

The detailed agglomeration test work is presented in Section 5 of this report.

1.5 Column Test Work

Several column tests (cyanide leaching, detoxification and humidity cell) were conducted on individual portions of material split from the Environmental Composite. Each test was conducted in consecutive order within the original column leach test apparatus.

A total of eight (8) column leach tests were completed. On the tailings material from each column leach test, detoxification test work was then conducted (bacterial or hydrogen peroxide). The detoxified tailings from select columns were further utilized for humidity cell test work. The final tailings from select tests were utilized for tailings analyses and compacted permeability test work.

A summary of the test work conducted in each column is presented in Table 1-4.

Table 1-4.
Eagle Gold Project
Summary of Column Test Work

Test Parameters						Cyanide Leaching		Detoxification				Humidity Cell	
KCA Sample No.	KCA Test No.	Description	Column Temp., ˚C	Column Diameter, meters	Target p80 Size, mm	Start Date	End Date	Detox Type	Start Date	End (Phase I) Start (Phase II) Date	End Date	Start Date	End Date
48158	63301	Environmental Composite	22	0.152	6.3	30-Jan-12	22-Jun-12	Bacterial	13-Jul-12	23-Oct-12	3-Dec-12	3-Dec-12	16-Sep-13
48158	63304	Environmental Composite	22	0.152	6.3	30-Jan-12	22-Jun-12	Bacterial	13-Jul-12	23-Oct-12	20-Mar-13	--	--
48158	63307	Environmental Composite	22	0.152	6.3	30-Jan-12	22-Jun-12	Bacterial	13-Jul-12	23-Oct-12	20-Mar-13	--	--
48158	63310	Environmental Composite	22	0.152	6.3	30-Jan-12	22-Jun-12	Peroxide	19-Jul-12	--	31-Oct-12	11-Nov-12	7-Dec-12
48158	63313	Environmental Composite	22	0.152	6.3	30-Jan-12	22-Jun-12	Peroxide	19-Jul-12	--	31-Oct-12	11-Nov-12	7-Dec-12
48158	63316	Environmental Composite	22	0.152	6.3	30-Jan-12	22-Jun-12	Peroxide	19-Jul-12	--	9-Nov-12	17-Nov-12	16-Sep-13
48158	63319	Environmental Composite	3	0.152	6.3	30-Jan-12	22-Jun-12	Bacterial	13-Jul-12	23-Oct-12	20-Mar-13	--	--
48158	63322	Environmental Composite	3	0.152	6.3	30-Jan-12	22-Jun-12	Peroxide	19-Jul-12	--	9-Nov-12	17-Nov-12	16-Sep-13

1.5.1 Cyanide Leach Test Work

A total of eight (8) column leach tests were completed on portions of the Environmental Composite material. Each test utilized material crushed to the size of 100% passing 9.5 millimeters and agglomerated with cement. During testing, the material was leached for 143 days with a sodium cyanide solution. Periodic samples of the column solutions were taken throughout the leach period and submitted to Western Environmental Testing Laboratory (WETLAB) for Profile II analyses.

Two (2) of the column leach tests were conducted at a target temperature of 3°C in an enclosed refrigeration unit. The remaining six (6) column leach tests were conducted at ambient temperature (22°C) in an open air environment. Except for operating temperature, each column leach test was set up and conducted identically.

A summary of the gold and silver extraction results are presented in Tables 1-5 and 1-6, respectively.

The detailed column leach test work is presented in Section 6 of this report.

Table 1-5.
Eagle Gold Project
Summary of Column Leach Tests - Gold

KCA Sample No.	KCA Test No.	Description	Column Temp., ˚C	Calculated Head, gms Au/MT	Extracted, gms Au/MT	Extracted, % Au	Calculated[1] Tail p80 Size, mm	Days of Leach	Consumption NaCN, kg/MT	Addition Cement, kg/MT
48158	63301	Environmental Composite	22	0.987	0.822	83%	6.1	143	1.24	3.03
48158	63304	Environmental Composite	22	0.980	0.825	84%	5.7	143	1.22	3.03
48158	63307	Environmental Composite	22	0.972	0.806	83%	6.4	143	1.27	3.03
48158	63310	Environmental Composite	22	1.093	0.929	85%	6.0	143	1.06	3.03
48158	63313	Environmental Composite	22	0.992	0.820	83%	6.4	143	1.40	3.03
48158	63316	Environmental Composite	22	0.991	0.826	83%	6.1	143	1.28	3.03
48158	63319	Environmental Composite	3	0.953	0.785	82%	6.0	143	1.27	3.02
48158	63322	Environmental Composite	3	1.074	0.909	85%	6.1	143	1.48	3.03

Note (1): For KCA Test Nos. 63301, 16 and 22, the Calculated Tail p80 values are the average of five (5) tests.

Table 1-6.
Eagle Gold Project
Summary of Column Leach Tests - Silver

KCA Sample No.	KCA Test No.	Description	Column Temp., ˚C	Calculated Head, gms Ag/MT	Extracted, gms Ag/MT	Extracted, % Ag	Calculated[1] Tail p80 Size, mm	Days of Leach	Consumption NaCN, kg/MT	Addition Cement, kg/MT
48158	63301	Environmental Composite	22	0.51	0.32	62%	6.1	143	1.24	3.03
48158	63304	Environmental Composite	22	0.54	0.34	63%	5.7	143	1.22	3.03
48158	63307	Environmental Composite	22	0.50	0.33	65%	6.4	143	1.27	3.03
48158	63310	Environmental Composite	22	0.56	0.38	68%	6.0	143	1.06	3.03
48158	63313	Environmental Composite	22	0.51	0.30	59%	6.4	143	1.40	3.03
48158	63316	Environmental Composite	22	0.53	0.33	63%	6.1	143	1.28	3.03
48158	63319	Environmental Composite	3	0.49	0.29	60%	6.0	143	1.27	3.02
48158	63322	Environmental Composite	3	0.53	0.34	63%	6.1	143	1.48	3.03

Note (1): For KCA Test Nos. 63301, 16 and 22, the Calculated Tail p80 values are the average of five (5) tests.

1.5.2 Detoxification Test Work

Two (2) types of detoxification test work were conducted on the tailings material from the column leach tests: bacterial detox and hydrogen peroxide detox.

Bacterial detoxification was conducted on the tailings material from four (4) of the column leach tests (KCA Test Nos. 63301, 63304, 63307 and 63319). Detoxification was conducted utilizing bacteria culture in the form of a sugar-syrup mixture (GWS-BCY3) supplied to KCA by Jim Harrington at Alexco Environmental Group.

Hydrogen peroxide detoxification (copper catalyzed peroxide) was conducted on the tailings material from the remaining four (4) column leach tests (KCA Test Nos. 63310, 63313, 63316 and 63322).

The detailed detoxification test work is presented in Section 6.4 of this report.

A summary of the detoxification tests is presented in Table 1-7.

Table 1-7.
Eagle Gold Project
Summary of Detoxification Tests

KCA Sample No.	KCA Test No.	Description	Target p80 Size, mm	Test Temp., °C	Detox Type
48158	63301	Env. Comp. (Column Leach Tailings)	6.3	22	Bacterial
48158	63304	Env. Comp. (Column Leach Tailings)	6.3	22	Bacterial
48158	63307	Env. Comp. (Column Leach Tailings)	6.3	22	Bacterial
48158	63310	Env. Comp. (Column Leach Tailings)	6.3	22	Peroxide
48158	63313	Env. Comp. (Column Leach Tailings)	6.3	22	Peroxide
48158	63316	Env. Comp. (Column Leach Tailings)	6.3	22	Peroxide
48158	63319	Env. Comp. (Column Leach Tailings)	6.3	3	Bacterial
48158	63322	Env. Comp. (Column Leach Tailings)	6.3	3	Peroxide

1.5.3 Humidity Cell Test Work

Humidity cell test work was conducted on the detoxified tailings material from select column leach tests (KCA Test Nos. 63301, 63310, 63313, 63316 and 63322).

The procedure utilized for the humidity cell test work was modified from the ASTM standard procedure (D-5744). Each test was conducted in the original leach test column (152 millimeter diameter) utilizing the entire amount of detoxified sample material (39.20 to 39.40 kilograms). The top of each column was covered loosely to prevent excessive loss of moist air. The material in each column (p80 6.3 millimeters) was not flooded and drained according to standard ASTM procedure; instead solution was applied to the top of each column and allowed to percolate through the sample material.

Each humidity cell test was conducted and sampled in weekly cycles. For each weekly cycle, moist air (30°C) was first pumped up through the detoxified tailings material for a period of four (4) days at a target rate of 5 liters per minute. The moist air was then stopped, and distilled water was applied to the top of the column with a peristaltic pump for one day and then allowed to drain down for two (2) days. The moist air was then started again for the next weekly cycle.

A total of two (2) liters of the drain down solution was sampled at the end of each weekly cycle and submitted to WETLAB for a Profile II analysis. The solution submitted to WETLAB consisted of one liter of "raw" solution, and one liter of solution preserved with NaOH. The remainder of the drain down solution was stored.

At the end of each humidity cell test, the solution was allowed to drain and the tailings material was prepared for analyses.

A summary of the humidity cell tests is presented in Table 1-8.

The detailed humidity cell test work is presented in Section 6.5 of this report.

Table 1-8.
Eagle Gold Project
Summary of Humidity Cell Tests

KCA Sample No.	KCA Test No.	Description	Detox Type	Test Temp., °C	Date Started	Date Ended	Total Days
48158	63301	Env. Comp. (Detoxified Tailings)	Bacterial	22	3-Dec-12	16-Sep-13	287
48158	63310	Env. Comp. (Detoxified Tailings)	Hydrogen Peroxide	22	11-Nov-12	7-Dec-12	26
48158	63313	Env. Comp. (Detoxified Tailings)	Hydrogen Peroxide	22	11-Nov-12	7-Dec-12	26
48158	63316	Env. Comp. (Detoxified Tailings)	Hydrogen Peroxide	22	17-Nov-12	16-Sep-13	303
48158	63322	Env. Comp. (Detoxified Tailings)	Hydrogen Peroxide	3	17-Nov-12	16-Sep-13	303

1.5.4 Column Tailings Analyses

For select humidity cell tests (KCA Test Nos. 63301, 63316 and 63322), the tailings material was sampled in 20 centimeter intervals (from the top down) utilizing a clean vacuum apparatus. The interval samples were individually bagged, sealed and labeled. The interval tailings material was then shipped to SGS Mineral Services in Burnaby, Canada for analyses. The test work conducted by SGS Mineral Services is not included in this report.

The tailings material from KCA Test Nos. 63304, 63307, 63310, 63313 and 63319 were dumped, coned three (3) times and quartered. Two (2) opposite quarters were combined and utilized for compacted permeability test work. The remaining two (2) opposite quarters were combined, weighed and oven dried for moisture content. The dried tailings were then utilized for a tail screen analysis with assays by size fraction.

The purpose of the compacted permeability test work was to examine the permeability of the previously agglomerated tailings material under compaction loading equivalent to heap heights of 25, 50, 75, 100 and 125 meters of overall heap height.

All compacted permeability tests passed the criteria put forth by KCA.

The detailed compacted permeability test work is presented in Section 6.7 of this report.

1.6 Discussion

Overall, the calculated head values for gold compared well for the various tests conducted in this program. The gold and silver head values from each test routine along with a statistical analysis are presented in Table 1-9.

Column leach test extractions for gold ranged from 82% to 85% based on calculated heads which ranged from 0.972 to 1.093 grams per metric tonne. Silver extractions ranged from 59% to 68% based on calculated heads which ranged from 0.29 to 0.38 grams per metric tonne. The sodium cyanide consumptions ranged from 1.06 to 1.48 kilograms per metric tonne. The material utilized in leaching was agglomerated with 3.02 or 3.03 kilograms per metric tonne cement.

Select humidity cell tests (KCA Test Nos. 63301, 63310 and 63322) were tracked for total and WAD cyanide levels throughout the duration of the test period. Graphical presentations of the cyanide levels for the selected tests are presented in Figures 1-1 through 1-3.

Column test extraction results contained in the body of this report were based upon carbon assays vs. the calculated head (carbon assays + tail assays). Extraction results contained in Appendix A were based upon the daily solution assays vs. the calculated head (solution assays + tailings assays).

When an outside party submits samples, KCA can estimate gold extraction for an ore body based upon the assumption that the ore to be mined will be similar to the samples tested. For feasibility study purposes, KCA normally discounts laboratory gold extractions by two to three percentage points when estimating field extractions. KCA normally discounts laboratory silver extractions by three to five percentage points when estimating field recoveries. This assumes a well-managed heap leach operation, and if agglomeration is required, it is assumed that this process is completed correctly.

Based upon KCA's experience with mostly clean non-reactive ores, cyanide consumption in production heaps would be only 25 to 33 percent of the laboratory column test consumptions. For ores containing high amounts of leachable copper, higher factors should be utilized.

Table 1-9.
Eagle Gold Project
Summary of Overall Head Grades from Test Program

KCA Sample No.	Description	Average Assay, gms Au/MT	Weighted Avg. Head Assay, gms Au/MT	Bottle Roll Calc. Head, gms Au/MT	Column[1] Carbon Calc. Head, gms Au/MT	Overall Average, gms Au/MT	Standard Deviation	Relative Standard Deviation
48158	Environmental Composite	0.961	1.077	0.678	0.971	0.922	0.171	19%

KCA Sample No.	Description	Average Assay, gms Ag/MT	Weighted Avg. Head Assay, gms Ag/MT	Bottle Roll Calc. Head, gms Ag/MT	Column[1] Carbon Calc. Head, gms Ag/MT	Overall Average, gms Ag/MT	Standard Deviation	Relative Standard Deviation
48158	Environmental Composite	0.62	0.56	0.45	0.52	0.54	0.07	13%

Note (1): Column Carbon values are the average of five (5) tests.

Figure 1-1.
Eagle Gold Project
Environmental Composite
KCA Test No. 63301
Humidity Cell – Total and WAD cyanide

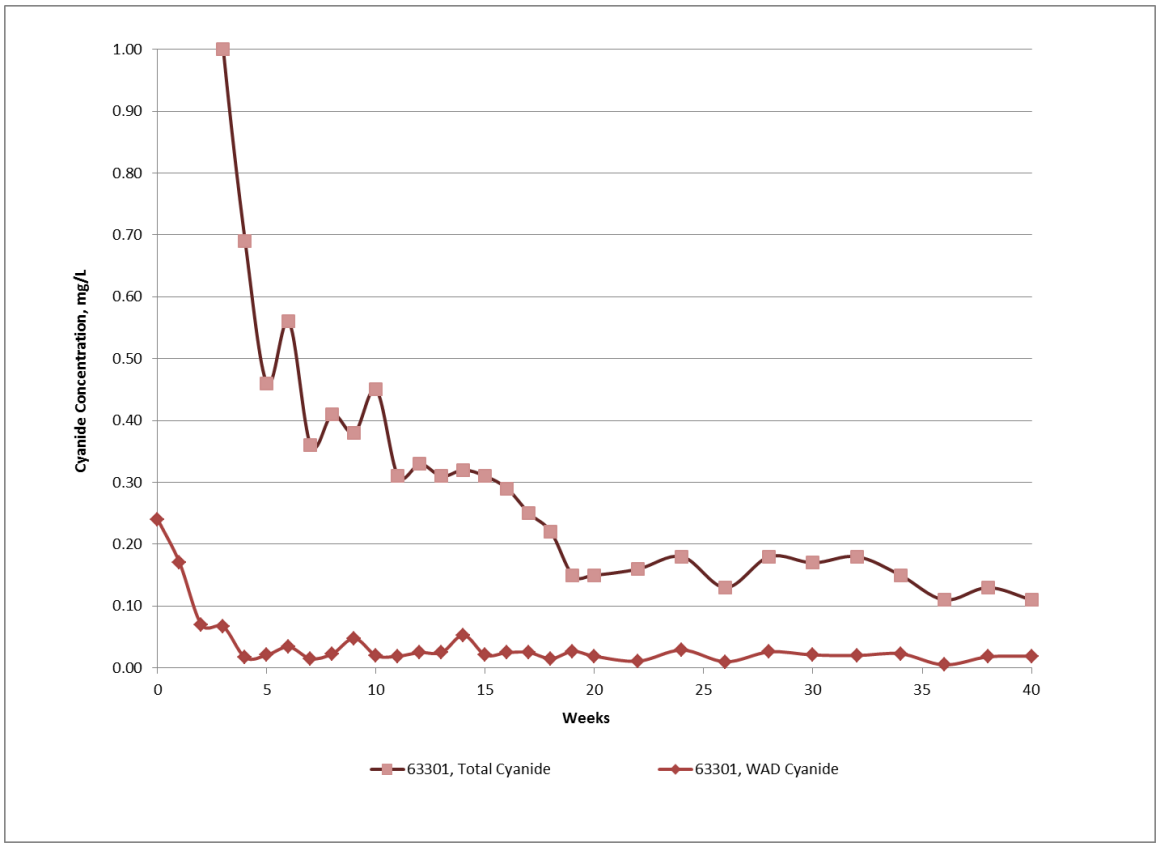


Figure 1-2.
Eagle Gold Project
Environmental Composite
KCA Test No. 63316
Humidity Cell – Total and WAD cyanide

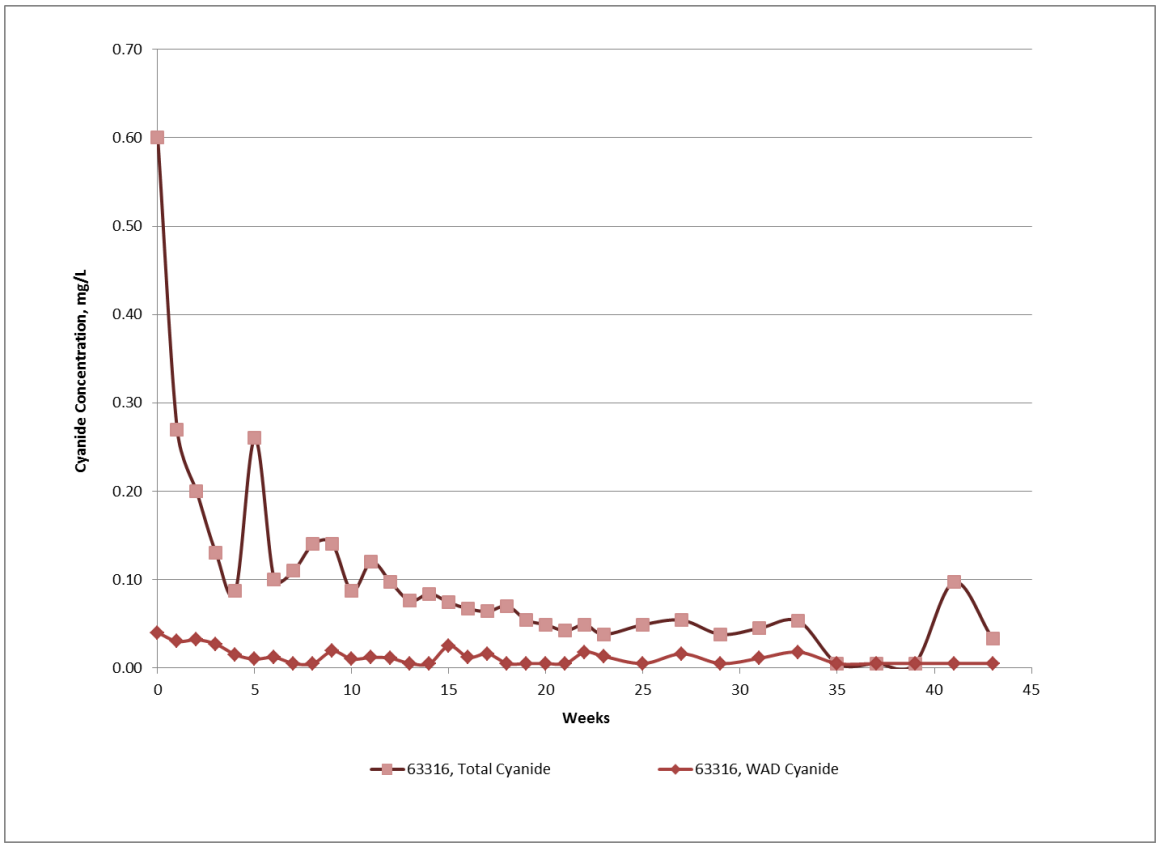
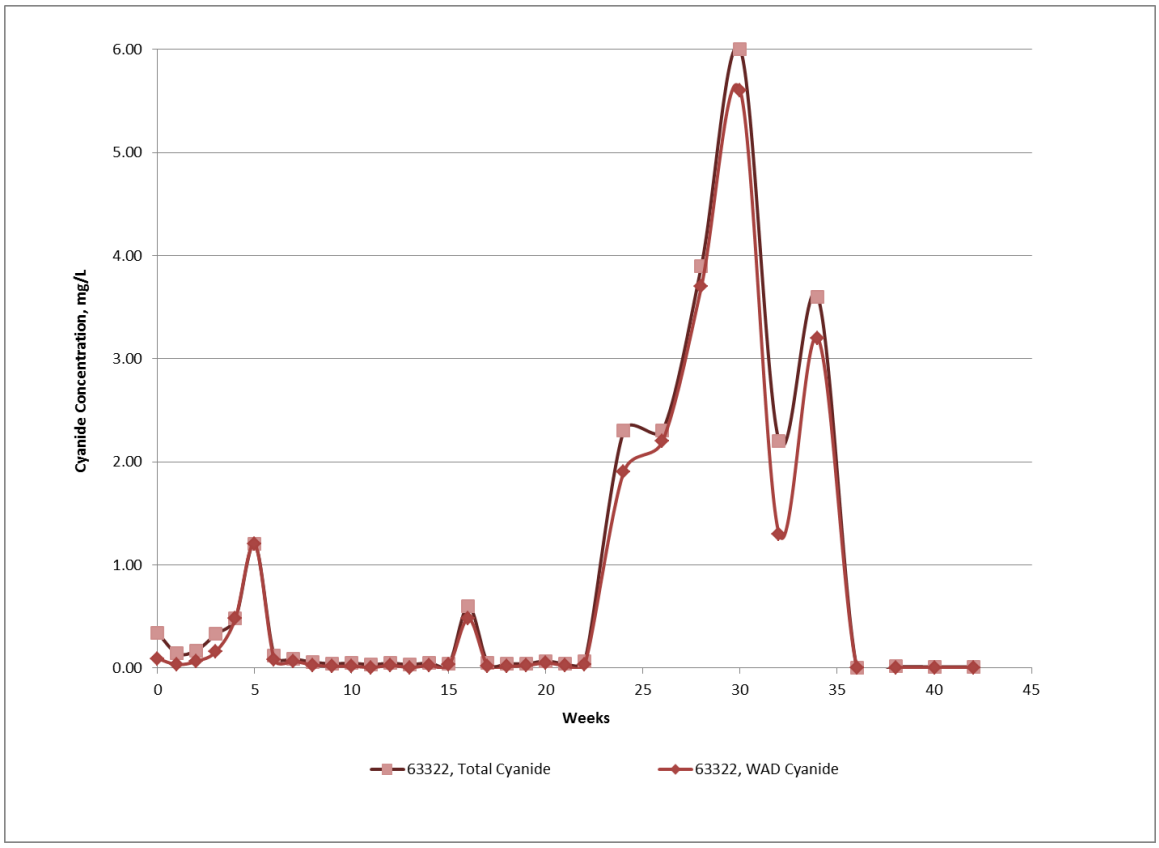


Figure 1-3.
Eagle Gold Project
Environmental Composite
KCA Test No. 63322
Humidity Cell – Total and WAD cyanide



2.0 Sample Receipt and Preparation

On 2 November 2009, the laboratory facility of KCA in Reno, Nevada received three (3) supersacks of bulk pit material from the Eagle Gold Project in the Central Yukon Territory. Each supersack represented a single sample (Pit 1, Pit 2 and Pit 3), and was assigned a unique sample number (KCA Sample Nos. 43180, 43181 and 43182). All three (3) samples were identified by the client as Type A material, and were prepared and utilized for metallurgical test work by KCA. The detailed sample receipt and preparation procedures were reported previously in KCA's Eagle Gold, June 2011 metallurgical report (Report I.D.: KCA0120018_EG03).

From each of the bulk pit samples (KCA Sample Nos. 43180, 43181 and 43182), a 150 kilogram portion of material was split out and combined to generate a single composite. The Pit 1, 2 and 3 Composite material was assigned a unique sample number (KCA Sample No. 48126) and was then prepared and utilized for metallurgical test work completed by KCA.

A summary of the Pit 1, 2 and 3 Composite generation is presented for reference in Table 2-1.

Table 2-1.
Eagle Gold Project
Pit 1, 2 and 3 Composite Generation

KCA Sample No.	Sample Description	Wt to Composite, kg
43180	Pit 1	150
43181	Pit 2	150
43182	Pit 3	150
Total Weight, kg		450

On 16 November 2011, the laboratory facility of KCA received twenty-six (26) core interval samples from the Eagle Gold Project. The samples consisted of half split HQ and PQ core, and were identified by interval length and ore type information provided by the client.

The received interval sample information is provided for reference in Table 2-2.

Each interval sample was assigned a unique sample number (KCA Sample Nos. 48127 through 48152) and was prepared and utilized for metallurgical test work by KCA. The results of the test work conducted on the Pit 1, 2 and 3 Composite and the interval samples were reported previously in KCA's Eagle Gold, October 2012 metallurgical report (Report I.D.: KCA0120142_EG06).

Table 2-2.
Eagle Gold Project
Interval Sample Receipt Information

KCA Sample No.	Client Sample ID	Drill Hole	Interval, m From	Interval, m To	Ore Type	Received Weight, kg
48127	DG11-MET-03	DG10-407C	98.45	112.16	A	31.38
48128	DG11-MET-05	DG11-412C	51.82	68.58	A	27.62
48129	DG11-MET-09	DG11-419C	83.82	96.01	A	25.38
48130	DG11-MET-12	DG11-416C	83.82	100.38	A	53.78
48131	DG11-MET-15	DG11-413C	91.74	105.16	A	61.62
48132	DG11-MET-21	DG10-410C	42.80	56.99	A	42.74
48133	DG11-MET-02	DG10-406C	63.09	82.88	B	64.16
48134	DG11-MET-04	DG11-412C	160.02	175.26	B	49.00
48135	DG11-MET-06	DG11-414C	173.74	192.02	B	60.16
48136	DG11-MET-08	DG11-417C	152.40	169.16	B	60.94
48137	DG11-MET-10	DG11-419C	108.20	123.44	B	64.88
48138	DG11-MET-14	DG10-409C	178.90	195.60	B	34.54
48139	DG11-MET-16	DG11-413C	129.54	144.78	B	38.80
48140	DG11-MET-13	DG11-416C	115.82	125.25	B	51.02
48141	DG11-MET-17	10BGC-GTH-07	214.10	230.90	B	58.62
48142	DG11-MET-22	10BGC-GTH-08	58.83	74.07	B	53.68
48143	DG11-MET-24	DG10-405C	29.60	44.80	B	38.38
48144	DG11-MET-01	DG10-406C	172.82	194.15	C	71.20
48145	DG11-MET-07	DG11-414C	86.87	97.54	C	16.54
48146	DG11-MET-11	DG11-419C	164.59	175.26	C	31.70
48147	DG11-MET-18	10BGC-GTH-07	141.00	156.20	C	57.66
48148	DG11-MET-19	10BGC-GTH-08	173.13	186.84	C	53.78
48149	DG11-MET-20	DG11-418C	102.11	117.35	C	52.80
48150	DG11-MET-23	DG10-411C	93.54	104.24	E	31.50
48151	DG11-MET-25	DG11-PQ-04	36.58	54.86	E	104.50
48152	DG11-MET-26	DG11-PQ-05	46.79	67.80	E	110.00

For the test work summarized in this report; reject material from each interval sample was utilized to generate four (4) Ore Type Composites based on information provided by the client.

Each Ore Type Composite was then combined and blended with a portion of reject material from the Pit 1, 2 and 3 Composite, and a portion of reject material from one interval sample (DG-MET-23, KCA Sample No. 48150). The newly generated composite was labeled as the Environmental Composite.

The Environmental Composite was prepared and utilized for head analyses, bottle roll leach test work and column leach test work. On the tailings material from each column leach test, detoxification test work was conducted. The detoxified tailings from select columns were further utilized for humidity cell test work. Additionally, the final tailings from select tests were utilized for compacted permeability test work.

2.1 Ore Type Composite Generation

A total of four (4) Ore Type Composites were generated from the received core material (Type A, B, C and E). Each composite was generated utilizing reject interval material prepared in a previous test program (Report I.D.: KCA0120142_EG06). Each composite was assigned a unique composite number (KCA Composite Nos. 48154 through 48157) and was utilized as a constituent for an Environmental Composite.

The Ore Type Composite generation information is presented in Tables 2-3 through 2-6.

Table 2-3.
Eagle Gold Project
Ore Type Composite Generation Information – Ore Type A
KCA Composite No. 48154

KCA Composite No.	KCA Sample No.	Sample I.D.	Hole I.D.	From, meters	To, meters	Total, meters	Ore Type	Wt. To Composite, kg
48154	48127	DG11-MET-03	DG10-407C	98.45	112.16	13.71	A	10.00
	48128	DG11-MET-05	DG11-412C	51.82	68.58	16.76	A	7.50
	48129	DG11-MET-09	DG11-419C	83.82	96.01	12.19	A	5.00
	48130	DG11-MET-12	DG11-416C	83.82	100.38	16.56	A	12.50
	48131	DG11-MET-15	DG11-413C	91.74	105.16	13.42	A	12.50
	48132	DG11-MET-21	DG10-410C	42.80	56.99	14.19	A	12.50
Total -								60.00

Table 2-4.
Eagle Gold Project
Ore Type Composite Generation Information – Ore Type B
KCA Composite No. 48155

KCA Composite No.	KCA Sample No.	Sample I.D.	Hole I.D.	From, meters	To, meters	Total, meters	Ore Type	Wt. To Composite, kg
48155	48133	DG11-MET-02	DG10-406C	63.09	82.88	19.79	B	14.50
	48134	DG11-MET-04	DG11-412C	160.02	175.26	15.24	B	14.50
	48135	DG11-MET-06	DG11-414C	173.74	192.02	18.28	B	14.50
	48136	DG11-MET-08	DG11-417C	152.40	169.16	16.76	B	14.50
	48137	DG11-MET-10	DG11-419C	108.20	123.44	15.24	B	14.50
	48138	DG11-MET-14	DG10-409C	178.90	195.60	16.70	B	14.50
	48139	DG11-MET-16	DG11-413C	129.54	144.78	15.24	B	14.50
	48140	DG11-MET-13	DG11-416C	115.82	125.25	9.43	B	14.50
	48141	DG11-MET-17	10BGC-GTH-07	214.10	230.90	16.80	B	14.50
	48142	DG11-MET-22	10BGC-GTH-08	58.83	74.07	15.24	B	14.50
	48143	DG11-MET-24	DG10-405C	29.60	44.80	15.20	B	14.50
Total -								159.50

Table 2-5.
Eagle Gold Project
Ore Type Composite Generation Information – Ore Type C
KCA Composite No. 48156

KCA Composite No.	KCA Sample No.	Sample I.D.	Hole I.D.	From, meters	To, meters	Total, meters	Ore Type	Wt. To Composite, kg
48156	48144	DG11-MET-01	DG10-406C	172.82	194.15	21.33	C	11.00
	48147	DG11-MET-18	10BGC-GTH-07	141.00	156.20	15.20	C	11.00
	48148	DG11-MET-19	10BGC-GTH-08	173.13	186.84	13.71	C	11.00
	48149	DG11-MET-20	DG11-418C	102.11	117.35	15.24	C	11.00
Total -								44.00

Table 2-6.
Eagle Gold Project
Ore Type Composite Generation Information – Ore Type E
KCA Composite No. 48157

KCA Composite No.	KCA Sample No.	Sample I.D.	Hole I.D.	From, meters	To, meters	Total, meters	Ore Type	Wt. To Composite, kg
48157	48151	DG11-MET-25	DG11-PQ-04	36.58	54.86	18.28	E	11.73
	48152	DG11-MET-26	DG11-PQ-05	46.79	67.80	21.01	E	11.73
Total -								23.46

2.2 Environmental Composite Generation

The Environmental Composite was generated by combining a portion of the previously generated Pit 1, 2 and 3 Composite material (KCA Sample No.48126), the four (4) Ore Type Composites (KCA Composite Nos. 48154 through 48157) and a portion of reject material from one interval sample (DG-MET-23, KCA Sample No. 48150) according to information provided by the client. The composite material was then assigned a unique sample number (KCA Sample No. 48158) and utilized for metallurgical test work.

The Environmental Composite generation information is presented in Table 2-7.

Table 2-7.
Eagle Gold Project
Environmental Composite Generation Information
KCA Sample No. 48158

KCA Sample/Composite No.	Description	Ore Type	Type of Material	Weight to Composite, kg	Weight to Composite, %
48126	Pit 1, 2 and 3	A	Surface Pit	59.5	17%
48154	DG11-MET-03, 05, 09, 12, 15, 21	A	Core	59.5	17%
48155	DG11-MET-02, 04, 06, 08, 10, 14, 16, 13, 17, 22, 24	B	Core	159.5	45%
48156	DG11-MET-01, 18, 19, 20	C	Core	44.0	13%
48150	DG-MET-23	E	Core	5.25	1%
48157	DG11-MET-25, 26	E	Core	23.45	7%
			Total:	351.2	100%

2.3 Environmental Composite Preparation

The Environmental Composite was prepared as follows:

1. The individual constituents of the Environmental Composite were combined and blended. The entire composite was then stage crushed to 100% passing 9.5 millimeters and size adjusted to a target size of 80% passing 6.3 millimeters. The size adjusted material was recombined, coned three (3) times and quartered.

2. Two (2) opposite quarters were labeled (A_1 and A_2) and set aside.

3. The remaining two (2) opposite quarters were combined, coned three (3) times and quartered.

4. Three (3) quarters were labeled (A_3, A_4 and A_5) and set aside.

5. The remaining quarter was coned three (3) times and quartered.

6. One quarter was labeled (A_6) and set aside.

7. The remaining three (3) quarters were labeled (B_1, B_2 and B_3) and set aside.

8. The labeled material (A_1, A_2, A_3, A_4, A_5 and A_6) was combined, coned three (3) times and quartered.

9. Two (2) opposite quarters were labeled (C_1 and C_2) and set aside.

10. The remaining two (2) opposite quarters were combined, coned three (3) times and quartered. Each quarter was utilized for an agglomerated (150 millimeter diameter) column leach test.

11. The labeled material (C_1 and C_2) was combined, coned three (3) times and quartered. Each quarter was utilized for an agglomerated (150 millimeter diameter) column leach test.

12. The labeled material (B_1, B_2 and B_3) was combined, coned three (3) times and quartered.

13. From one quarter, three (3) 2 kilogram portions were split out and utilized for preliminary agglomeration testing. The reject portion was stored.

14. A second quarter was weighed and oven dried for moisture content. The dried material was then utilized for a wet head screen analysis with assays by size fraction. The material was screened at 9.5, 6.3, 1.70, 0.600, 0.212 and 0.075 millimeters. Each size fraction was weighed and the weight reported. Each size fraction was then crushed to a nominal top size of 1.70 millimeters (as required)

and two (2) portions were split from the crushed material. The portions were individually ring and puck pulverized to a target size of 80% passing 0.075 millimeters (as necessary), and each pulverized portion was assayed for gold and silver content.

15. A third quarter was stored.

16. The remaining quarter was crushed to a nominal size of 1.70 millimeters.

17. From the nominal 1.70 millimeter material, two (2) 500 gram portions were split out and individually ring and puck pulverized to a target size of 80% passing 0.075 millimeters. The pulverized portions were utilized for head analyses.

18. From the nominal 1.70 millimeter material, a 1,200 gram portion was split out and ring and puck pulverized to a target size of 80% passing 0.075 millimeters. From the pulverized material, 1,000 grams were split out and utilized for a bottle roll leach test. The remaining material from this quarter was stored.

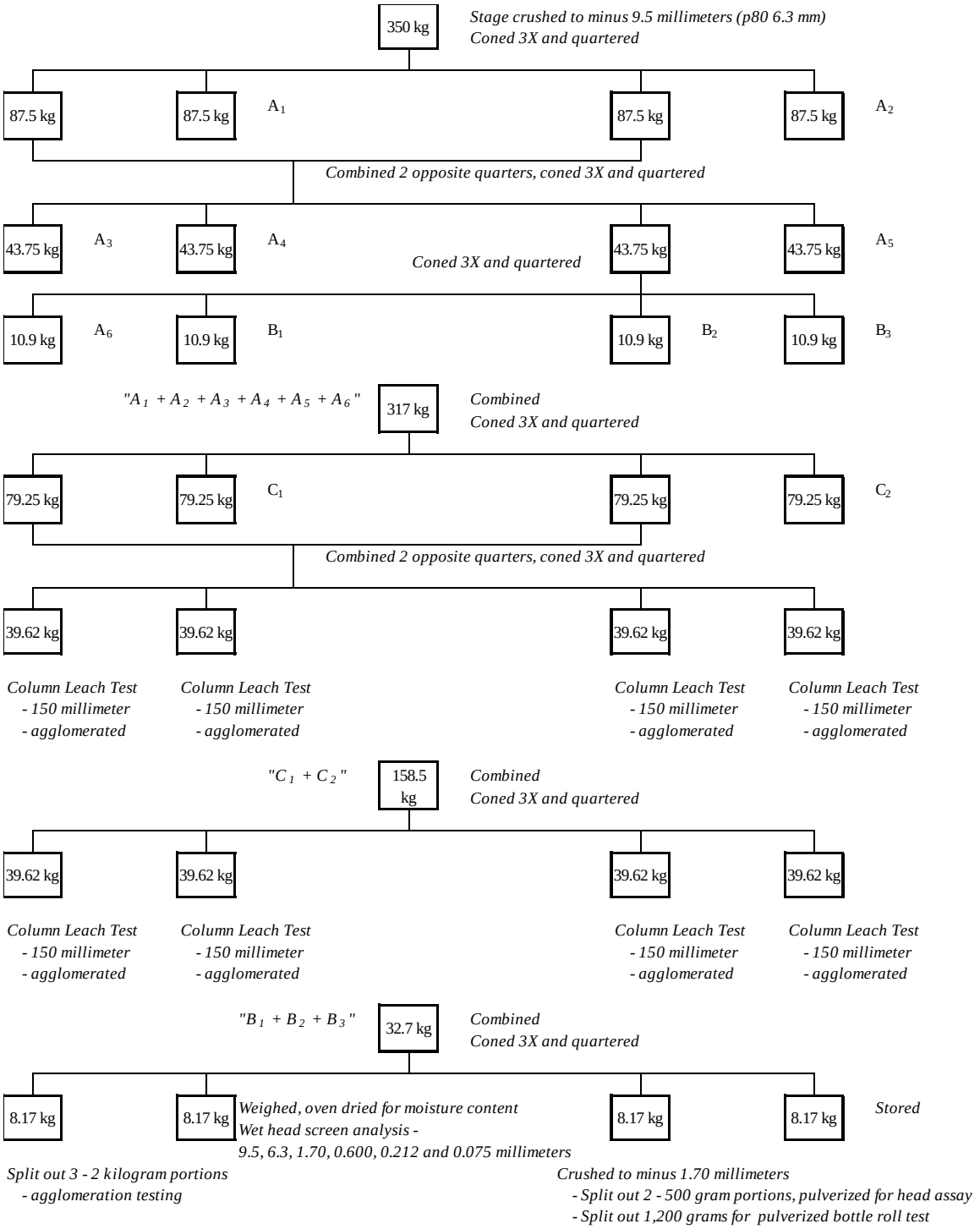
The sample preparation flow sheet for the Environmental Composite (KCA Sample No. 48158) is presented in Figure 2-1.

A summary of the calculated moisture content of the Environmental Composite is presented in Table 2-8.

Table 2-8.
Eagle Gold Project
Moisture Content Summary

KCA Sample No.	Description	Wet Wt., kg	Dry Wt., kg	Moisture, %	Calc. Moisture Content, L/MT_{dryore}
48158	Environmental Composite	8.17	8.10	1%	8.6

Figure 2-1.
Eagle Gold Project
KCA Sample No. 48158
Environmental Composite - Sample Preparation



3.0 Head Analyses

Portions of the head material from the Environmental Composite were ring and puck pulverized and analyzed for gold and silver by standard fire assay and wet chemistry methods. Head material was also assayed semi-quantitatively for an additional series of elements and for whole rock constituents. In addition to these semi-quantitative analyses, the head material was assayed by quantitative methods for carbon, sulfur and mercury. A cyanide shake test was also conducted on a portion of the pulverized head material.

In addition to the analyses on pulverized head material, a portion of crushed composite material (target p80 6.3 millimeters) was utilized for head screen analyses with assays by size fraction.

3.1 Head Analyses for Gold and Silver

Head analyses for gold and silver were conducted on the sample material. A portion of the head material was crushed to 100% passing 1.70 millimeters. From the blended minus 1.70 millimeter material, duplicate 500 gram splits were individually ring and puck pulverized to a target size of 80% passing 0.075 millimeters. Gold content was determined using standard fire assay methods with flame atomic absorption spectrophotometric (FAAS) finish. Silver content was determined using wet chemistry methods (4-acid digestion) with FAAS finish.

The results of the head analyses for gold and silver are presented in Table 3-1.

Table 3-1.
Eagle Gold Project
Head Analyses – Gold and Silver

KCA Sample No.	Description	Assay 1, gms Au/MT	Assay 2, gms Au/MT	Average Assay, gms Au/MT
48158	Environmental Composite	0.926	0.995	0.961

KCA Sample No.	Description	Assay 1, gms Ag/MT	Assay 2, gms Ag/MT	Average Assay, gms Ag/MT
48158	Environmental Composite	0.62	0.62	0.62

3.2 Head Analyses for Carbon and Sulfur

Head analyses for carbon and sulfur were conducted utilizing a LECO CS 230 unit. In addition to total carbon and sulfur analyses, speciation for organic and inorganic carbon and speciation for sulfide and sulfate sulfur were conducted.

The results of the carbon and sulfur analyses are presented in Table 3-2.

Table 3-2.
Eagle Gold Project
Head Analyses – Carbon and Sulfur

KCA Sample No.	Description	Total Carbon, %	Organic Carbon, %	Inorganic Carbon, %	Total Sulfur, %	Sulfide Sulfur, %	Sulfate Sulfur, %
48158	Environmental Composite	0.40	0.09	0.31	0.22	0.10	0.13

3.3 Head Analyses for Mercury and Copper

Head analyses for mercury were conducted utilizing cold vapor/atomic absorption methods. Total copper analyses were conducted utilizing inductively coupled argon plasma – optical emission spectrophotometer (ICAP-OES) as well as by FAAS methods.

The results of the mercury and copper analyses are presented in Table 3-3.

Table 3-3.
Eagle Gold Project
Head Analyses – Mercury and Copper

KCA Sample No.	Description	Total Mercury, mg/kg	Total Copper, mg/kg	Cyanide Soluble Copper, mg/kg	Cyanide Soluble Copper, %
48158	Environmental Composite	<0.05	61	11.66	19%

3.4 Head Analyses for Multi-elements

Semi-quantitative analyses were conducted by means of an ICAP-OES for a series of individual elements and whole rock constituents (lithium metaborate fusion/ICAP).

The results of the multi-element analyses are presented in Table 3-4. The results of the whole rock analyses are presented in Table 3-5.

Table 3-4.
Eagle Gold Project
Head Analyses – Multi-element Analyses

Constituent	Unit	Environmental Composite KCA Sample No. 48158
Al	%	8.38
As	mg/kg	450
Ba	mg/kg	1457
Bi	mg/kg	50
$C_{(total)}$	%	0.40
$C_{(organic)}$	%	0.09
$C_{(inorganic)}$	%	0.31
Ca	%	1.92
Cd	mg/kg	<1
Co	mg/kg	11
Cr	mg/kg	112
$Cu_{(total)}$	mg/kg	61
$Cu_{(cyanide\ soluble)}$	mg/kg	11.66
Fe	%	2.58
Hg	mg/kg	<0.05
K	%	4.25
Mg	%	0.83
Mn	mg/kg	241
Mo	mg/kg	3
Na	%	1.43
Ni	mg/kg	31
Pb	mg/kg	142
$S_{(total)}$	%	0.22
$S_{(sulfide)}$	%	0.10
$S_{(sulfate)}$	%	0.13
Sb	mg/kg	39
Se	mg/kg	<5
Sr	mg/kg	352
Te	mg/kg	10
Ti	%	0.28
V	mg/kg	43
W	mg/kg	75
Zn	mg/kg	141

Table 3-5.
Eagle Gold Project
Head Analyses – Lithium Metaborate Fusion – Whole Rock Analyses

Constituent	Unit	Environmental Composite KCA Sample No. 48158	
SiO_2	%	65.43	
Si	%		30.59
Al_2O_3	%	15.37	
Al	%		8.14
Fe_2O_3	%	3.79	
Fe	%		2.65
CaO	%	2.89	
Ca	%		2.07
MgO	%	1.36	
Mg	%		0.82
Na_2O	%	1.86	
Na	%		1.38
K_2O	%	5.13	
K	%		4.26
TiO_2	%	0.47	
Ti	%		0.28
MnO	%	0.03	
Mn	%		0.02
SrO	%	0.04	
Sr	%		0.03
BaO	%	0.21	
Ba	%		0.19
Cr_2O_3	%	0.02	
Cr	%		0.01
P_2O_5	%	0.13	
P	%		0.06
$LOI_{1090°C}$	%	3.11	
SUM	%	99.84	

Note: The SUM is the total of the oxide constituents and the loss on ignition.

3.5 Cyanide Soluble Analyses

A cyanide shake test was conducted utilizing a portion of the pulverized head material. This test provided a preliminary indication of cyanide soluble metal extractions from pulverized material.

The cyanide shake test was conducted as follows:

1. A 15 gram portion of the pulverized material was placed into a 50 milliliter centrifuge tube with a screw cap.

2. A volume equivalent to 30 milliliters of 5 gram per liter sodium cyanide (gpL NaCN) solution at ambient temperature was then added.

3. The pulp and cyanide solution were mixed well by shaking.

4. The slurry was then agitated on a table action shaker for a 24 hour leach test at room temperature.

5. The slurry was then centrifuged and the resulting clear solution was analyzed for pH and gold, silver and copper utilizing FAAS methods.

6. If the pH of the solution was less than pH 9.0 the test was re-run with the addition of 0.1 grams of hydrated lime ($Ca(OH)_2$).

7. The residue was discarded.

The results of the cyanide shake test is presented in Table 3-6.

Table 3-6.
Eagle Gold Project
Head Analyses – Cyanide Shake Tests

KCA Sample No.	Description	Avg. Head Assay, gms Au/MT	Avg. Head Assay, gms Ag/MT	Leach Results								
				Final pH	Au, mg/L	Ag, mg/L	Cu, mg/L	Extraction, gms Au/MT	Extraction, gms Ag/MT	Extraction, mg Cu/kg	Est. Ext., Au, %	Est. Ext., Ag, %
48158	Environmental Composite	0.961	0.62	10.1	0.36	0.18	5.83	0.720	0.36	11.66	75%	58%

3.6 Head Screen Analyses with Assays by Size Fraction

The material apportioned for the head screen was initially wet screened at 0.075 millimeters. The minus 0.075 millimeter material was filtered, dried and weighed. The oversized material was dried and then dry screened at 9.5, 6.3, 1.70, 0.600, 0.212 and 0.075 millimeters. The dry screened minus 0.075 millimeter material was then combined with the wet screened material. Each separate size fraction was then weighed and the weights reported.

From each size fraction two (2) portions were split out and individually pulverized to the target size of 80% passing 0.075 millimeters, as necessary. The portions were then assayed using standard fire assaying methods for gold with FAAS finish and wet chemistry methods for silver.

A summary of the head screen analysis is presented in Table 3-7. The head screen analysis is presented graphically in Figure 3-1 and the detailed results are presented in Table 3-8.

Table 3-7.
Eagle Gold Project
Summary of Head Screen Analysis

KCA Sample No.	Description	Calc. p80 Size, mm	Weighted Avg. Head Assay, gms Au/MT	Weighted Avg. Head Assay, gms Ag/MT
48158	Environmental Composite	5.97	1.077	0.56

Figure 3-1.
Eagle Gold Project
Environmental Composite
Head Screen Analysis

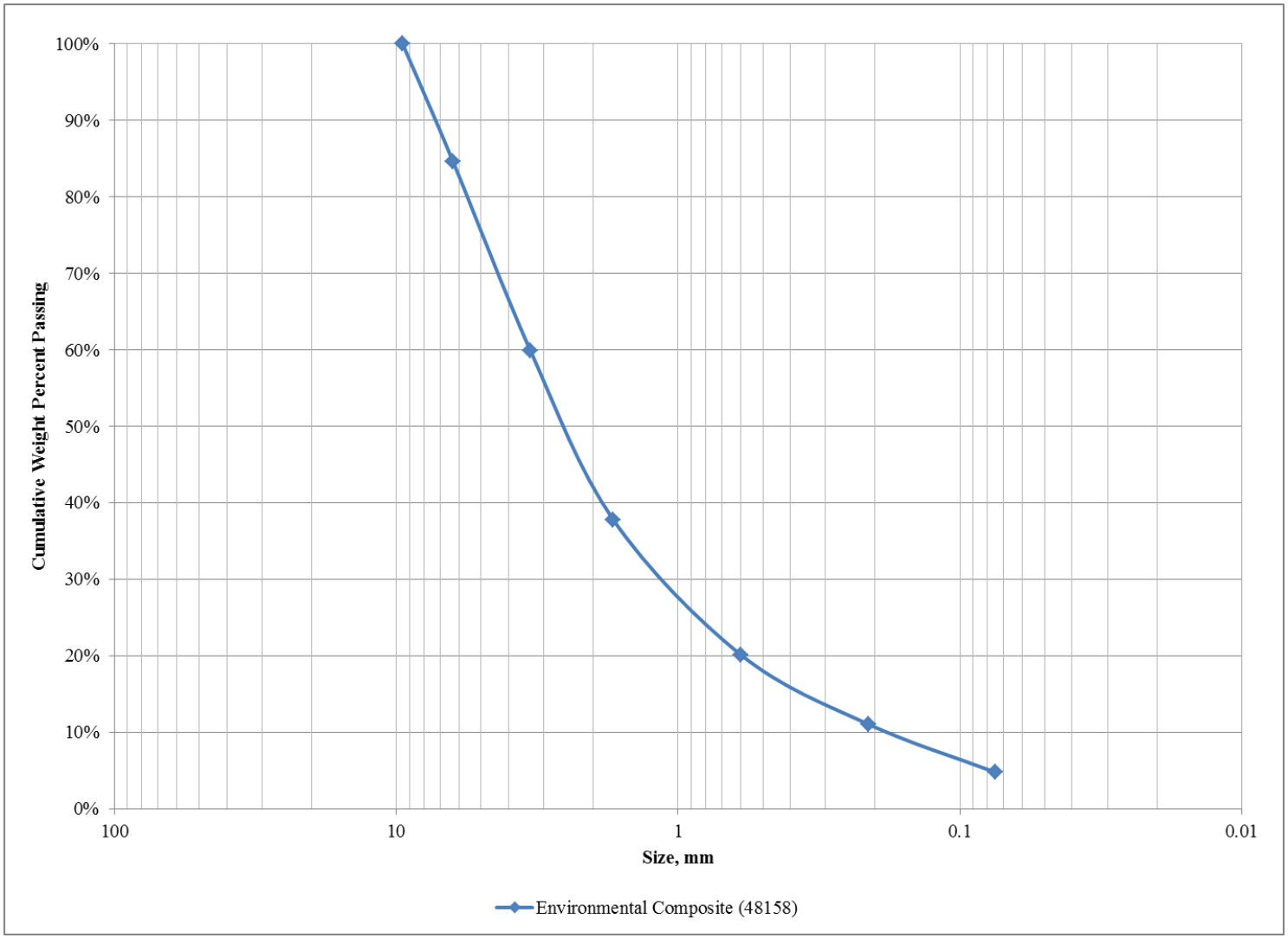


Table 3-8.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
Crushed Material, Calculated 80% passing 5.97 millimeters
Head Screen Analysis with Assays by Size Fraction

			Wet Screen Analysis				Analysis of Gold Content			
KCA Sample No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Assay 1, gms Au/MT	Assay 2, gms Au/MT	Average Assay, gms Au/MT	Weight Au, %
48158		9.5	0.00				---	---	---	---
	9.5	6.3	1.22	15.4%	15.4%	100.0%	0.792	1.138	0.965	13.8%
	6.3	3.35	1.96	24.7%	40.1%	84.6%	1.471	1.046	1.258	28.8%
	3.35	1.70	1.76	22.2%	62.2%	59.9%	0.617	0.813	0.715	14.7%
	1.70	0.600	1.40	17.6%	79.8%	37.8%	1.063	0.627	0.845	13.8%
	0.600	0.212	0.72	9.1%	88.9%	20.2%	1.063	1.320	1.191	10.0%
	0.212	0.075	0.50	6.3%	95.2%	11.1%	2.839	1.169	2.004	11.7%
	0.075	Pan	0.38	4.8%	100.0%	4.8%	1.670	1.519	1.594	7.1%
Total -			7.94	100.0%			1.164	0.990	1.077	100.0%
Detection -							0.006	0.006		

			Wet Screen Analysis				Analysis of Silver Content			
KCA Sample No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Assay 1, gms Ag/MT	Assay 2, gms Ag/MT	Average Assay, gms Ag/MT	Weight Ag, %
48158		9.5	0.00				---	---	---	---
	9.5	6.3	1.22	15.4%	15.4%	100.0%	0.41	0.41	0.41	11.3%
	6.3	3.35	1.96	24.7%	40.1%	84.6%	0.41	0.41	0.41	18.2%
	3.35	1.70	1.76	22.2%	62.2%	59.9%	0.62	0.62	0.62	24.5%
	1.70	0.600	1.40	17.6%	79.8%	37.8%	0.62	0.62	0.62	19.5%
	0.600	0.212	0.72	9.1%	88.9%	20.2%	0.62	0.62	0.62	10.0%
	0.212	0.075	0.50	6.3%	95.2%	11.1%	0.79	0.79	0.79	8.9%
	0.075	Pan	0.38	4.8%	100.0%	4.8%	0.79	0.99	0.89	7.6%
Total -			7.94	100.0%			0.55	0.56	0.56	100.0%
Detection -							0.21	0.21		

4.0 Bottle Roll Leach Test Work

Bottle roll leach testing was conducted on a portion of the Environmental Composite material. A 1,000 gram portion of head material was ring and puck pulverized to a target size of 80% passing 0.075 millimeters. The pulverized material was then utilized for leach testing.

The bottle roll test procedure is outlined in the following:

1. One 1,000 gram split of pulverized material was placed into a 2.5 liter bottle and slurried with 1,500 milliliters of tap water.

2. The slurry was mixed thoroughly and the pH of the slurry checked. The pH of the slurry was adjusted, as required, to 10.5 to 11.0 with hydrated lime.

3. Sodium cyanide was added to the slurry to a target amount of 1.0 grams per liter sodium cyanide. The bottle was then placed onto a set of laboratory rolls. Rolling throughout the duration of the test mixed the slurry.

4. The slurry was checked at 2, 4, 8, 24 and 48 hours for pH, dissolved oxygen (DO), NaCN, Au, Ag and Cu.

5. Additional hydrated lime and sodium cyanide were added after each sample period, if required, to adjust the slurry to the target levels.

6. After completion of the leach period, the slurry was filtered, washed and dried.

From the dry tailings, duplicate portions were split out and assayed for residual gold and silver content. The reject material was stored.

These laboratory tests were conducted with hydrated lime for pH control. A discussion regarding the available lime index for the hydrated lime ($Ca(OH)_2$) and lime (CaO) utilized by KCA is presented in Section 7 of this report.

The gold and silver extraction results of the bottle roll test are summarized in Tables 4-1 and 4-2, respectively. The detailed results are presented in Table 4-3.

Table 4-1.
Eagle Gold Project
Milled Cyanide Bottle Roll Leach Test
Gold Extraction Summary

KCA Sample No.	KCA Test No.	Sample I.D.	Target p80 Size, mm	Avg. Head Assay, gms Au/MT	Calculated Head, gms Au/MT	Extracted, gms Au/MT	Avg. Tails, gms Au/MT	Au Extracted, %	Leach Time, hours	Consumption NaCN, kg/MT	Addition $Ca(OH)_2$, kg/MT
48158	63511 B	Environmental Composite	0.075	0.961	0.678	0.623	0.055	92%	48	0.29	1.00

Table 4-2.
Eagle Gold Project
Milled Cyanide Bottle Roll Leach Test
Silver Extraction Summary

KCA Sample No.	KCA Test No.	Sample I.D.	Target p80 Size, mm	Avg. Head Assay, gms Ag/MT	Calculated Head, gms Ag/MT	Extracted, gms Ag/MT	Avg. Tails, gms Ag/MT	Ag Extracted, %	Leach Time, hours	Consumption NaCN, kg/MT	Addition $Ca(OH)_2$, kg/MT
48158	63511 B	Environmental Composite	0.075	0.62	0.45	0.24	0.21	54%	48	0.29	1.00

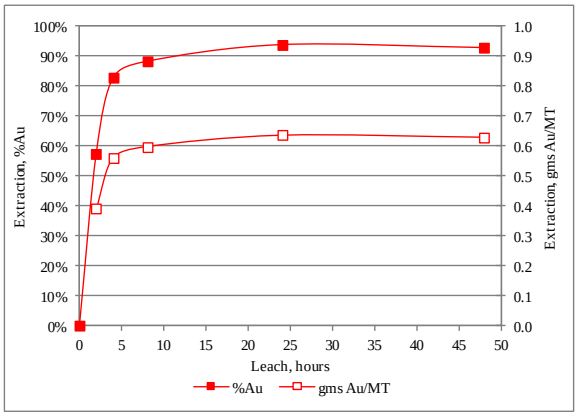
Table 4-3.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63511 B
Cyanide Bottle Roll Leach Test, Target 1.0 grams per liter NaCN
Pulverized Material, Target 80% passing 0.075 millimeters
(1,000 grams solids + 1,500 milliliters solution)

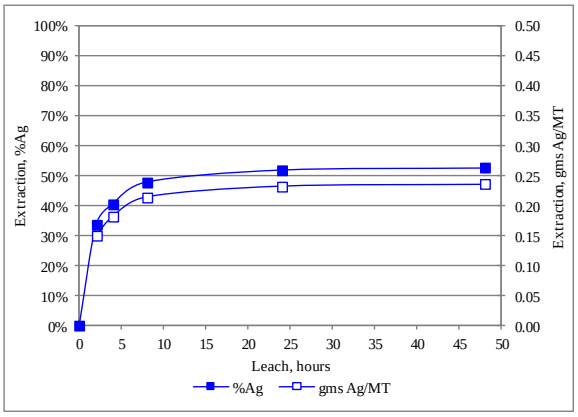
KCA Sample No.	KCA Test No.	Period, hours	pH*	Dissolved Oxygen, mg/L**	Free NaCN, gpL*	Total NaCN, gpL*	Added NaCN, grams	Added $Ca(OH)_2$, grams	Volume Out, mLs***	Volume In, mLs***	Feed Ore Wt., grams	Total Solution Volume, mLs	Solution AAS, mg Au/L	Solution AAS, mg Cu/L	Extracted, gms Au/MT	Cumulative Au Extraction, %
48158	63511 B	0	8.4	--	--	--	1.50	1.00	--	--	1,000	1,500	--	--	--	0%
		2	10.8	3.8	0.92	0.92	0.00	0.00	20	20	1,000	1,500	0.26	4.60	0.390	58%
		4	10.8	>20	0.90	0.90	0.00	0.00	20	20	1,000	1,500	0.37	5.10	0.560	83%
		8	10.6	16.9	0.87	0.87	0.20	0.00	20	20	1,000	1,500	0.39	5.55	0.598	88%
		24	10.5	13.1	0.93	0.93	0.00	0.00	20	20	1,000	1,500	0.41	7.21	0.635	94%
		48	10.5	7.6	0.89	0.89	--	--	20	20	1,000	1,500	0.40	8.12	0.629	93%
										Filtrate + Wash:	1,000	2,550	0.23	--	0.623	92%
														Tail Assay, gms/MT:	0.055	
										Chemical Consumptions					0.055	
										Sodium Cyanide, kilograms NaCN per dry tonne of ore:		0.29	Avg. Tails, gms/MT:		0.055	
										Hydrated lime, kilograms $Ca(OH)_2$ per dry tonne of ore:		1.00	Calc. Head, gms/MT:		0.678	
														Extracted, %:	92%	

Notes: (*) - Before chemical additions. (**) - Sparged with oxygen when below 4. (***) - 20 mLs removed at each sampling interval and replaced with fresh water.

KCA Sample No.	KCA Test No.	Period, hours	pH*	Dissolved Oxygen, mg/L**	Free NaCN, gpL*	Total NaCN, gpL*	Added NaCN, grams	Added $Ca(OH)_2$, grams	Volume Out, mLs***	Volume In, mLs***	Feed Ore Wt., grams	Total Solution Volume, mLs	Solution AAS, mg Ag/L	Solution AAS, mg Cu/L	Extracted, gms Ag/MT	Cumulative Ag Extraction, %
48158	63511 B	0	8.4	--	--	--	1.50	1.00	--	--	1,000	1,500	--	--	--	0%
		2	10.8	3.8	0.92	0.92	0.00	0.00	20	20	1,000	1,500	0.10	4.60	0.15	33%
		4	10.8	>20	0.90	0.90	0.00	0.00	20	20	1,000	1,500	0.12	5.10	0.18	41%
		8	10.6	16.9	0.87	0.87	0.20	0.00	20	20	1,000	1,500	0.14	5.55	0.21	48%
		24	10.5	13.1	0.93	0.93	0.00	0.00	20	20	1,000	1,500	0.15	7.21	0.23	52%
		48	10.5	7.6	0.89	0.89	--	--	20	20	1,000	1,500	0.15	8.12	0.24	52%
										Filtrate + Wash:	1,000	2,550	0.09	--	0.24	54%
														Tail Assay, gms/MT:	0.21	
										Chemical Consumptions					0.21	
										Sodium Cyanide, kilograms NaCN per dry tonne of ore:		0.29	Avg. Tails, gms/MT:		0.21	
										Hydrated lime, kilograms $Ca(OH)_2$ per dry tonne of ore:		1.00	Calc. Head, gms/MT:		0.45	
														Extracted, %:	54%	

Notes: (*) - Before chemical additions. (**) - Sparged with oxygen when below 4. (***) - 20 mLs removed at each sampling interval and replaced with fresh water.





5.0 Agglomeration Test Work

Preliminary agglomeration test work was conducted on portions of the Environmental Composite material.

5.1 Preliminary Agglomeration Test Work

The purpose of the preliminary agglomeration tests was to examine the permeability of the material under various cement agglomeration levels. The percolation tests were conducted in small (75 millimeter inside diameter) columns at a range of cement levels with no compressive load applied.

A total of three (3) agglomeration tests were conducted utilizing 2 kilogram portions of material crushed to the size of 100% passing 9.5 millimeters and agglomerated with 0, 2.5 or 5 kilograms cement per metric tonne of dry ore.

The procedure utilized for these tests was as follows:

1. A 2 kilogram split of material was placed into an agglomerating drum and the specified amount of cement was added.

2. The drum was rotated for several minutes to mix the material and cement thoroughly.

3. The material was sprayed with tap water to form the agglomerates and the amount of water required was recorded.

4. The agglomerates were then placed into a 75 millimeter inside diameter column and the initial material height was recorded. The agglomerates were allowed to cure for a period of 24 hours.

5. Solution was applied to the column at a rate of 10 to 12 liters per hour per square meter of column surface area for 72 hours. Changes in the height of the material in the column, agglomerate stability and percolation problems were recorded.

6. After 72 hours of solution application, the sides of the column were tapped sharply until the material height within the column remained stable. The final material height was then recorded.

7. The exit line from the column was clamped off and the column was flooded with solution to a level equal to 75 millimeters above the material surface.

8. The clamp was removed and while the solution level above the material was maintained, the solution flow rate from the bottom of the column was measured.

5.2 Discussion of Preliminary Agglomeration Test Work

This type of agglomeration test work is very preliminary but does serve to provide an indication of whether or not agglomeration will be required for the processing of the material at the tested crushed sizes. These specific tests should be indicative of cement requirements for a single lift heap having an overall height of not more than 8 meters. If a multiple lift heap leach operation is being developed then additional agglomeration test work will be required and this test work should include test work that examines the material under a static load.

For agglomeration test work conducted by KCA, the parameters that are typically examined are slump, maximum flow rate, agglomerate pellet break down (when material is agglomerated) and discharge solution color and clarity (or the "visual" turbidity of the solution). Guidelines that KCA utilizes when reviewing the results from this type of test are presented in the following:

1. In KCA's non-compacted agglomeration tests, a slump of over 10% is generally an indication of failure. One item also examined is the consistency of results with regard to slump. If things worked perfectly, a lower slump with higher cement levels could be expected.

2. A typical heap leach solution application rate of 10 to 12 liters per hour per square meter is utilized when examining the agglomeration data. When examining results from this type of agglomeration test a measured flow of one hundred times (100X) the heap design rate is considered a "pass". A measured flow less than 100X the heap design flow is not necessarily a failure. If there are enough tests with enough consistency between tests, and all other points indicate a "pass," and then sometimes a test will pass with less than the 100X flow. However, a test will not likely pass at 10X and probably not at 40X.

3. In examining the Pellet Breakdown, about 10% is marginally acceptable and anything higher is a failure. In general, a higher range is allowable in Pellet Breakdown as this is a subjective value based on the visual observation of the pellets after the test by the technicians performing the test. When the samples tested are not agglomerated using cement, this test is not applicable.

4. Solution color and clarity typically is an indicator of agglomerate failure and fines migration. This information is utilized in coordination with both slump as well as Pellet Breakdown to determine if the test passes.

All agglomeration tests passed the criteria put forth by KCA. The pH of the material was low in the tests which did not utilize cement; the addition of lime can resolve this problem.

After completion of this portion of the test program, and after discussion with the client, the material utilized for each column leach test was agglomerated with 3 kilograms cement per metric tonne of dry ore.

The complete results of the preliminary agglomeration test program (including a pass/fail analysis) are shown in Table 5-1.

Table 5-1.
Eagle Gold Project
Summary of Preliminary Agglomeration Test Work

KCA Sample No.	KCA Test No.	Description	Top Size of Material, mm	Cement, $kg/MT_{dry\ ore}$	Water Added, mLs	Column Area, m^2	Dry Weight, kg	Initial Height, cm	Final Height, cm	pH on Day 3	pH Comment	Slump, %	Slump Result	Apparent Bulk Density, MT_{dry}/M^3	Flow Out, $LpHr/m^2$	Flow Result	Visual Estimate of % Pellet Breakdown	Pellet Result	Out Flow Solution, Color and Clarity	Solution Result	Overall Test Result
48158	48160	Environmental Composite	9.5	0	0.00	0.005	2.0	32.39	32.39	8.2	Low	0%	Pass	1.35	10,607	Pass	< 3	Pass	Brown and Cloudy	Fail	Pass
48158	48160	Environmental Composite	9.5	2.5	75.35	0.005	2.0	34.29	34.29	11.8	High	0%	Pass	1.28	25,305	Pass	< 3	Pass	Clear and Colorless	Pass	Pass
48158	48160	Environmental Composite	9.5	5	81.39	0.005	2.0	34.93	34.93	12.0	High	0%	Pass	1.26	23,759	Pass	< 3	Pass	Clear and Colorless	Pass	Pass

6.0 Column Leach Test Work

A total of eight (8) column leach tests were completed on portions of the Environmental Composite material. Each test utilized material crushed to the size of 100% passing 9.5 millimeters and agglomerated with cement. During testing, the material was leached for 143 days with a sodium cyanide solution. Periodic samples of the column solutions were taken throughout the leach period and submitted to Western Environmental Testing Laboratory (WETLAB) for Profile II analyses.

Two (2) of the column leach tests were conducted at a target temperature of 3°C in an enclosed refrigeration unit. The remaining six (6) column leach tests were conducted at ambient temperature (22°C) in an open air environment. Except for operating temperature, each column leach test was set up and conducted identically.

The column leach test parameters are presented in Table 6-1.

Table 6-1.
Eagle Gold Project
Column Leach Test Parameters

KCA Sample No.	KCA Test No.	Description	Column Temp. ˚C	Target p80 Size, mm	Column Diameter, meters	Initial Charge Height, meters	Charge[1] Weight, kilograms
48158	63301	Environmental Composite	22	6.3	0.152	1.530	39.28
48158	63304	Environmental Composite	22	6.3	0.152	1.543	39.24
48158	63307	Environmental Composite	22	6.3	0.152	1.524	39.28
48158	63310	Environmental Composite	22	6.3	0.152	1.556	39.24
48158	63313	Environmental Composite	22	6.3	0.152	1.543	39.20
48158	63316	Environmental Composite	22	6.3	0.152	1.518	39.28
48158	63319	Environmental Composite	3	6.3	0.152	1.492	39.40
48158	63322	Environmental Composite	3	6.3	0.152	1.562	39.28

Note (1): For KCA Test Nos. 63301, 16 and 22, the Charge Weight value is the average of five (5) tests.

6.1 Column Leach Test Extractions

Gold extractions ranged from 82% to 85% based on calculated heads which ranged from 0.972 to 1.093 grams per metric tonne. Silver extractions ranged from 59% to 68% based on calculated heads which ranged from 0.29 to 0.38 grams per metric tonne. The sodium cyanide consumptions ranged from 1.06 to 1.48 kilograms per metric tonne. The material utilized in leaching was agglomerated with 3.02 or 3.03 kilograms per metric tonne cement.

The metal extractions are summarized in Table 6-2 and presented graphically in Figure 6-1. The metal extraction data for the individual tests are presented in Tables 6-3 through 6-10.

Table 6-2.
Eagle Gold Project
Cyanide Column Leach Test Work
Extraction of Metal onto Granular Activated Carbon
Summary of Metal Extractions and Chemical Consumptions

KCA Sample No.	KCA Test No.	Description	Column Temp., ˚C	Target p80 Size, mm	Calculated Head, gms Au/MT	Extracted, gms Au/MT	Weighted[1] Avg. Tail Screen, gms Au/MT	Extracted, % Au	Calculated[1] Tail p80 Size, mm	Days of Leach	Consumption NaCN, kg/MT	Addition Cement, kg/MT
48158	63301	Environmental Composite	22	6.3	0.987	0.822	0.165	83%	6.1	143	1.24	3.03
48158	63304	Environmental Composite	22	6.3	0.980	0.825	0.156	84%	5.7	143	1.22	3.03
48158	63307	Environmental Composite	22	6.3	0.972	0.806	0.166	83%	6.4	143	1.27	3.03
48158	63310	Environmental Composite	22	6.3	1.093	0.929	0.164	85%	6.0	143	1.06	3.03
48158	63313	Environmental Composite	22	6.3	0.992	0.820	0.172	83%	6.4	143	1.40	3.03
48158	63316	Environmental Composite	22	6.3	0.991	0.826	0.165	83%	6.1	143	1.28	3.03
48158	63319	Environmental Composite	3	6.3	0.953	0.785	0.167	82%	6.0	143	1.27	3.02
48158	63322	Environmental Composite	3	6.3	1.074	0.909	0.165	85%	6.1	143	1.48	3.03

KCA Sample No.	KCA Test No.	Description	Column Temp., ˚C	Target p80 Size, mm	Calculated Head, gms Ag/MT	Extracted, gms Ag/MT	Weighted[1] Avg. Tail Screen, gms Ag/MT	Extracted, % Ag	Calculated[1] Tail p80 Size, mm	Days of Leach	Consumption NaCN, kg/MT	Addition Cement, kg/MT
48158	63301	Environmental Composite	22	6.3	0.51	0.32	0.19	62%	6.1	143	1.24	3.03
48158	63304	Environmental Composite	22	6.3	0.54	0.34	0.20	63%	5.7	143	1.22	3.03
48158	63307	Environmental Composite	22	6.3	0.50	0.33	0.17	65%	6.4	143	1.27	3.03
48158	63310	Environmental Composite	22	6.3	0.56	0.38	0.18	68%	6.0	143	1.06	3.03
48158	63313	Environmental Composite	22	6.3	0.51	0.30	0.21	59%	6.4	143	1.40	3.03
48158	63316	Environmental Composite	22	6.3	0.53	0.33	0.19	63%	6.1	143	1.28	3.03
48158	63319	Environmental Composite	3	6.3	0.49	0.29	0.20	60%	6.0	143	1.27	3.02
48158	63322	Environmental Composite	3	6.3	0.53	0.34	0.19	63%	6.1	143	1.48	3.03

Note (1): For KCA Test Nos. 63301, 16 and 22, the Weighted Average Tails and Calculated Tail p80 values are the average of five (5) tests.

Figure 6-1.
Eagle Gold Project
Cyanide Column Leach Test Work
Gold Extraction versus Days of Leach

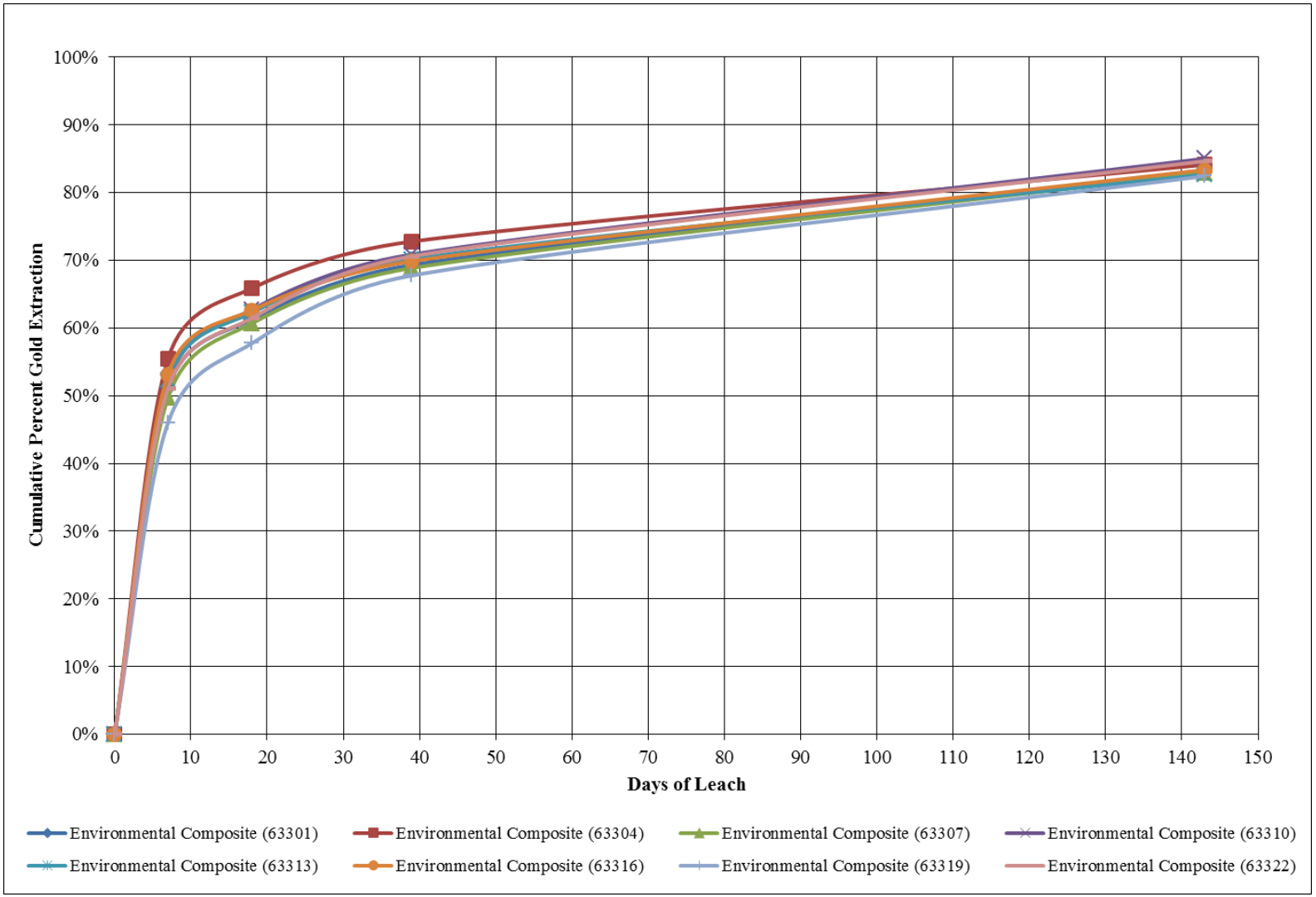


Table 6-3.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63301
Crushed Material, Calculated 80% passing 6.1 millimeters
Metal Extractions and Chemical Consumptions

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Au/MT	Carbon Weight, grams	Carbon Assay-1, oz Au/st	Carbon Assay-2, oz Au/st	Carbon Assay Avg., oz Au/st	Metal on Carbon Extraction, gms Au/MT	Extraction, % Au	Cumulative Extraction, % Au	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.86	0.474	200.30	2.948	2.824	2.886	0.505	51%	51%	0.04	0.00
8-18	1.98	0.092	192.68	0.585	0.605	0.595	0.100	10%	61%	-0.01	0.00
19-39	3.70	0.096	99.90	0.930	0.895	0.913	0.080	8%	69%	0.18	0.00
40-143	12.17	0.128	116.76	1.357	1.352	1.354	0.138	14%	83%	1.03	0.00
	Total:	0.790					0.822			1.24	0.00
	Tail:	0.165					0.165				
	Calc. Head:	0.955					0.987				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Ag/MT	Carbon Weight, grams	Carbon Assay-1, oz Ag/st	Carbon Assay-2, oz Ag/st	Carbon Assay Avg., oz Ag/st	Metal on Carbon Extraction, gms Ag/MT	Extraction, % Ag	Cumulative Extraction, % Ag	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.86	0.23	200.30	1.22	1.35	1.29	0.22	44%	44%	0.04	0.00
8-18	1.98	0.02	192.68	0.05	0.05	0.05	0.01	2%	46%	-0.01	0.00
19-39	3.70	0.01	99.90	0.13	0.07	0.10	0.01	2%	47%	0.18	0.00
40-143	12.17	0.03	116.76	0.77	0.69	0.73	0.07	15%	62%	1.03	0.00
	Total:	0.29					0.32			1.24	0.00
	Tail:	0.19					0.19				
	Calc. Head:	0.48					0.51				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Column Parameters

KCA Sample No.	48158	KCA Test No.	63301
Est. Dry Weight Ore, kg:	39.28	Column Area, m^2:	0.018
Initial Ore Height, m:	1.530	Column Volume (initial), m^3:	0.028
Final Ore Height, m:	1.461	Column Volume (final), m^3:	0.027
Slump, %:	4.6%	Apparent Bulk Density (final), MT_{dry}/m^3:	1.474
Cement Addition, kg/MT:	3.03	Retained Moisture, L/MT_{dry}:	63.6
Agglom. Water Added, liters (1 gpL NaCN):	1.56	Mercury on C-1 Carbon, mg/kg:	0.10
Hydrated lime added during loading, kg/MT:	0.00	Final Percolation Rate, $L/Hr/m^2$:	N/A

Table 6-4.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63304
Crushed Material, Calculated 80% passing 5.7 millimeters
Metal Extractions and Chemical Consumptions

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Au/MT	Carbon Weight, grams	Carbon Assay-1, oz Au/st	Carbon Assay-2, oz Au/st	Carbon Assay Avg., oz Au/st	Metal on Carbon Extraction, gms Au/MT	Extraction, % Au	Cumulative Extraction, % Au	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.85	0.537	217.42	2.833	2.889	2.861	0.544	55%	55%	0.09	0.00
8-18	1.99	0.115	166.42	0.708	0.696	0.702	0.102	10%	66%	-0.02	0.00
19-39	3.68	0.054	89.30	0.871	0.869	0.870	0.068	7%	73%	0.21	0.00
40-143	12.44	0.096	91.29	1.392	1.395	1.394	0.111	11%	84%	0.95	0.00
	Total:	0.802					0.825			1.22	0.00
	Tail:	0.156					0.156				
	Calc. Head:	0.957					0.980				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Ag/MT	Carbon Weight, grams	Carbon Assay-1, oz Ag/st	Carbon Assay-2, oz Ag/st	Carbon Assay Avg., oz Ag/st	Metal on Carbon Extraction, gms Ag/MT	Extraction, % Ag	Cumulative Extraction, % Ag	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.85	0.26	217.42	1.32	1.40	1.36	0.26	48%	48%	0.09	0.00
8-18	1.99	0.02	166.42	0.17	0.05	0.11	0.02	3%	51%	-0.02	0.00
19-39	3.68	0.01	89.30	0.13	0.32	0.23	0.02	3%	54%	0.21	0.00
40-143	12.44	0.04	91.29	0.65	0.52	0.59	0.05	9%	63%	0.95	0.00
	Total:	0.34					0.34			1.22	0.00
	Tail:	0.20					0.20				
	Calc. Head:	0.54					0.54				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Column Parameters

KCA Sample No.	48158	KCA Test No.	63304
Est. Dry Weight Ore, kg:	39.24	Column Area, m^2:	0.018
Initial Ore Height, m:	1.543	Column Volume (initial), m^3:	0.028
Final Ore Height, m:	1.495	Column Volume (final), m^3:	0.027
Slump, %:	3.1%	Apparent Bulk Density (final), MT_{dry}/m^3:	1.438
Cement Addition, kg/MT:	3.03	Retained Moisture, L/MT_{dry}:	68.3
Agglom. Water Added, liters (1 gpL NaCN):	1.58	Mercury on C-1 Carbon, mg/kg:	0.10
Hydrated lime added during loading, kg/MT:	0.00	Final Percolation Rate, $L/Hr/m^2$:	N/A

Table 6-5.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63307
Crushed Material, Calculated 80% passing 6.4 millimeters
Metal Extractions and Chemical Consumptions

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Au/MT	Carbon Weight, grams	Carbon Assay-1, oz Au/st	Carbon Assay-2, oz Au/st	Carbon Assay Avg., oz Au/st	Metal on Carbon Extraction, gms Au/MT	Extraction, % Au	Cumulative Extraction, % Au	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.87	0.478	208.73	2.623	2.679	2.651	0.483	50%	50%	0.11	0.00
8-18	1.95	0.087	171.10	0.731	0.700	0.716	0.107	11%	61%	0.00	0.00
19-39	3.71	0.073	99.71	0.906	0.922	0.914	0.080	8%	69%	0.14	0.00
40-143	12.44	0.112	132.37	1.185	1.186	1.186	0.137	14%	83%	1.03	0.00
	Total:	0.751					0.806			1.27	0.00
	Tail:	0.166					0.166				
	Calc. Head:	0.916					0.972				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Ag/MT	Carbon Weight, grams	Carbon Assay-1, oz Ag/st	Carbon Assay-2, oz Ag/st	Carbon Assay Avg., oz Ag/st	Metal on Carbon Extraction, gms Ag/MT	Extraction, % Ag	Cumulative Extraction, % Ag	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.87	0.23	208.73	1.15	1.22	1.18	0.22	43%	43%	0.11	0.00
8-18	1.95	0.02	171.10	0.24	0.14	0.19	0.03	6%	49%	0.00	0.00
19-39	3.71	0.01	99.71	0.32	0.14	0.23	0.02	4%	52%	0.14	0.00
40-143	12.44	0.05	132.37	0.53	0.58	0.56	0.06	13%	65%	1.03	0.00
	Total:	0.31					0.33			1.27	0.00
	Tail:	0.17					0.17				
	Calc. Head:	0.49					0.50				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Column Parameters

KCA Sample No.	48158	KCA Test No.	63307
Est. Dry Weight Ore, kg:	39.28	Column Area, m^2:	0.018
Initial Ore Height, m:	1.524	Column Volume (initial), m^3:	0.028
Final Ore Height, m:	1.470	Column Volume (final), m^3:	0.027
Slump, %:	3.5%	Apparent Bulk Density (final), MT_{dry}/m^3:	1.465
Cement Addition, kg/MT:	3.03	Retained Moisture, L/MT_{dry}:	62.6
Agglom. Water Added, liters (1 gpL NaCN):	1.55	Mercury on C-1 Carbon, mg/kg:	0.09
Hydrated lime added during loading, kg/MT:	0.00	Final Percolation Rate, $L/Hr/m^2$:	N/A

Table 6-6.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63310
Crushed Material, Calculated 80% passing 6.0 millimeters
Metal Extractions and Chemical Consumptions

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Au/MT	Carbon Weight, grams	Carbon Assay-1, oz Au/st	Carbon Assay-2, oz Au/st	Carbon Assay Avg., oz Au/st	Metal on Carbon Extraction, gms Au/MT	Extraction, % Au	Cumulative Extraction, % Au	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.88	0.570	206.28	3.132	3.183	3.157	0.569	52%	52%	0.06	0.00
8-18	2.00	0.099	179.16	0.747	0.741	0.744	0.116	11%	63%	-0.01	0.00
19-39	3.75	0.088	125.02	0.826	0.809	0.818	0.089	8%	71%	0.16	0.00
40-143	12.57	0.147	132.50	1.354	1.319	1.336	0.155	14%	85%	0.85	0.00
	Total:	0.905					0.929			1.06	0.00
	Tail:	0.164					0.164				
	Calc. Head:	1.069					1.093				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Ag/MT	Carbon Weight, grams	Carbon Assay-1, oz Ag/st	Carbon Assay-2, oz Ag/st	Carbon Assay Avg., oz Ag/st	Metal on Carbon Extraction, gms Ag/MT	Extraction, % Ag	Cumulative Extraction, % Ag	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.88	0.26	206.28	1.40	1.40	1.40	0.25	45%	45%	0.06	0.00
8-18	2.00	0.02	179.16	0.14	0.05	0.10	0.01	3%	48%	-0.01	0.00
19-39	3.75	0.02	125.02	0.12	0.08	0.10	0.01	2%	50%	0.16	0.00
40-143	12.57	0.13	132.50	0.83	0.86	0.85	0.10	18%	68%	0.85	0.00
	Total:	0.43					0.38			1.06	0.00
	Tail:	0.18					0.18				
	Calc. Head:	0.61					0.56				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Column Parameters

KCA Sample No.	48158	KCA Test No.	63310
Est. Dry Weight Ore, kg:	39.24	Column Area, m^2:	0.0182
Initial Ore Height, m:	1.556	Column Volume (initial), m^3:	0.0284
Final Ore Height, m:	1.489	Column Volume (final), m^3:	0.0272
Slump, %:	4.3%	Apparent Bulk Density (final), MT_{dry}/m^3:	1.445
Cement Addition, kg/MT:	3.03	Retained Moisture, L/MT_{dry}:	50.5
Agglom. Water Added, liters (1 gpL NaCN):	1.57	Mercury on C-1 Carbon, mg/kg:	0.10
Hydrated lime added during loading, kg/MT:	0.00	Final Percolation Rate, $L/Hr/m^2$:	N/A

Table 6-7.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63313
Crushed Material, Calculated 80% passing 6.4 millimeters
Metal Extractions and Chemical Consumptions

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Au/MT	Carbon Weight, grams	Carbon Assay-1, oz Au/st	Carbon Assay-2, oz Au/st	Carbon Assay Avg., oz Au/st	Metal on Carbon Extraction, gms Au/MT	Extraction, % Au	Cumulative Extraction, % Au	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.89	0.542	222.62	2.747	2.580	2.664	0.519	52%	52%	0.08	0.00
8-18	1.97	0.091	169.25	0.659	0.679	0.669	0.099	10%	62%	0.02	0.00
19-39	3.71	0.068	95.58	0.937	0.947	0.942	0.079	8%	70%	0.21	0.00
40-143	12.49	0.112	106.89	1.329	1.320	1.324	0.124	12%	83%	1.09	0.00
	Total:	0.813					0.820			1.40	0.00
	Tail:	0.172					0.172				
	Calc. Head:	0.985					0.992				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Ag/MT	Carbon Weight, grams	Carbon Assay-1, oz Ag/st	Carbon Assay-2, oz Ag/st	Carbon Assay Avg., oz Ag/st	Metal on Carbon Extraction, gms Ag/MT	Extraction, % Ag	Cumulative Extraction, % Ag	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.89	0.26	222.62	1.19	1.11	1.15	0.22	44%	44%	0.08	0.00
8-18	1.97	0.02	169.25	0.05	0.14	0.10	0.01	3%	47%	0.02	0.00
19-39	3.71	0.01	95.58	0.17	0.26	0.22	0.02	4%	51%	0.21	0.00
40-143	12.49	0.03	106.89	0.46	0.41	0.43	0.04	8%	59%	1.09	0.00
	Total:	0.32					0.30			1.40	0.00
	Tail:	0.21					0.21				
	Calc. Head:	0.53					0.51				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Column Parameters

KCA Sample No.	48158	KCA Test No.	63313
Est. Dry Weight Ore, kg:	39.20	Column Area, m^2:	0.018
Initial Ore Height, m:	1.543	Column Volume (initial), m^3:	0.028
Final Ore Height, m:	1.486	Column Volume (final), m^3:	0.027
Slump, %:	3.7%	Apparent Bulk Density (final), MT_{dry}/m^3:	1.446
Cement Addition, kg/MT:	3.03	Retained Moisture, L/MT_{dry}:	58.7
Agglom. Water Added, liters (1 gpL NaCN):	1.55	Mercury on C-1 Carbon, mg/kg:	0.06
Hydrated lime added during loading, kg/MT:	0.00	Final Percolation Rate, $L/Hr/m^2$:	N/A

Table 6-8.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63316
Crushed Material, Calculated 80% passing 6.1 millimeters
Metal Extractions and Chemical Consumptions

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Au/MT	Carbon Weight, grams	Carbon Assay-1, oz Au/st	Carbon Assay-2, oz Au/st	Carbon Assay Avg., oz Au/st	Metal on Carbon Extraction, gms Au/MT	Extraction, % Au	Cumulative Extraction, % Au	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.86	0.452	219.12	2.771	2.740	2.756	0.527	53%	53%	0.07	0.00
8-18	2.01	0.082	168.07	0.630	0.644	0.637	0.093	9%	63%	0.00	0.00
19-39	3.68	0.076	98.14	0.826	0.854	0.840	0.072	7%	70%	0.17	0.00
40-143	12.46	0.121	118.66	1.294	1.290	1.292	0.134	14%	83%	1.03	0.00
	Total:	0.731					0.826			1.28	0.00
	Tail:	0.165					0.165				
	Calc. Head:	0.896					0.991				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Ag/MT	Carbon Weight, grams	Carbon Assay-1, oz Ag/st	Carbon Assay-2, oz Ag/st	Carbon Assay Avg., oz Ag/st	Metal on Carbon Extraction, gms Ag/MT	Extraction, % Ag	Cumulative Extraction, % Ag	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.86	0.22	219.12	1.26	1.25	1.26	0.24	46%	46%	0.07	0.00
8-18	2.01	0.02	168.07	0.05	0.15	0.10	0.01	3%	49%	0.00	0.00
19-39	3.68	0.01	98.14	0.25	0.09	0.17	0.01	3%	51%	0.17	0.00
40-143	12.46	0.04	118.66	0.59	0.62	0.61	0.06	12%	63%	1.03	0.00
	Total:	0.30					0.33			1.28	0.00
	Tail:	0.19					0.19				
	Calc. Head:	0.49					0.53				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Column Parameters

KCA Sample No.	48158	KCA Test No.	63316
Est. Dry Weight Ore, kg:	39.28	Column Area, m^2:	0.018
Initial Ore Height, m:	1.518	Column Volume (initial), m^3:	0.028
Final Ore Height, m:	1.422	Column Volume (final), m^3:	0.026
Slump, %:	6.3%	Apparent Bulk Density (final), MT_{dry}/m^3:	1.514
Cement Addition, kg/MT:	3.03	Retained Moisture, L/MT_{dry}:	63.6
Agglom. Water Added, liters (1 gpL NaCN):	1.58	Mercury on C-1 Carbon, mg/kg:	0.07
Hydrated lime added during loading, kg/MT:	0.00	Final Percolation Rate, $L/Hr/m^2$:	N/A

Table 6-9.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63319
Crushed Material, Calculated 80% passing 6.0 millimeters
Metal Extractions and Chemical Consumptions

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Au/MT	Carbon Weight, grams	Carbon Assay-1, oz Au/st	Carbon Assay-2, oz Au/st	Carbon Assay Avg., oz Au/st	Metal on Carbon Extraction, gms Au/MT	Extraction, % Au	Cumulative Extraction, % Au	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.89	0.499	192.01	2.574	2.670	2.622	0.438	46%	46%	0.10	0.00
8-18	1.98	0.103	171.09	0.758	0.743	0.751	0.112	12%	58%	0.01	0.00
19-39	3.67	0.090	109.27	1.031	0.978	1.005	0.096	10%	68%	0.17	0.00
40-143	12.40	0.125	109.45	1.468	1.468	1.468	0.140	15%	82%	0.99	0.00
	Total:	0.816					0.785			1.27	0.00
	Tail:	0.167					0.167				
	Calc. Head:	0.984					0.953				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Ag/MT	Carbon Weight, grams	Carbon Assay-1, oz Ag/st	Carbon Assay-2, oz Ag/st	Carbon Assay Avg., oz Ag/st	Metal on Carbon Extraction, gms Ag/MT	Extraction, % Ag	Cumulative Extraction, % Ag	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.89	0.24	192.01	1.22	0.97	1.10	0.18	37%	37%	0.10	0.00
8-18	1.98	0.03	171.09	0.05	0.22	0.14	0.02	4%	41%	0.01	0.00
19-39	3.67	0.01	109.27	0.03	0.40	0.22	0.02	4%	45%	0.17	0.00
40-143	12.40	0.04	109.45	0.63	0.86	0.75	0.07	14%	60%	0.99	0.00
	Total:	0.32					0.29			1.27	0.00
	Tail:	0.20					0.20				
	Calc. Head:	0.52					0.49				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Column Parameters

KCA Sample No.	48158	KCA Test No.	63319
Est. Dry Weight Ore, kg:	39.40	Column Area, m^2:	0.0182
Initial Ore Height, m:	1.492	Column Volume (initial), m^3:	0.0272
Final Ore Height, m:	1.467	Column Volume (final), m^3:	0.0268
Slump, %:	1.7%	Apparent Bulk Density (final), MT_{dry}/m^3:	1.472
Cement Addition, kg/MT:	3.02	Retained Moisture, L/MT_{dry}:	80.2
Agglom. Water Added, liters (1 gpL NaCN):	1.55	Mercury on C-1 Carbon, mg/kg:	0.08
Hydrated lime added during loading, kg/MT:	0.00	Final Percolation Rate, $L/Hr/m^2$:	N/A

Table 6-10.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63322
Crushed Material, Calculated 80% passing 6.1 millimeters
Metal Extractions and Chemical Consumptions

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Au/MT	Carbon Weight, grams	Carbon Assay-1, oz Au/st	Carbon Assay-2, oz Au/st	Carbon Assay Avg., oz Au/st	Metal on Carbon Extraction, gms Au/MT	Extraction, % Au	Cumulative Extraction, % Au	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.91	0.514	210.97	3.078	2.880	2.979	0.549	51%	51%	0.15	0.00
8-18	2.03	0.104	182.15	0.702	0.698	0.700	0.111	10%	61%	0.02	0.00
19-39	3.87	0.090	111.09	1.003	1.030	1.017	0.099	9%	71%	0.12	0.00
40-143	12.76	0.134	106.15	1.636	1.621	1.628	0.151	14%	85%	1.19	0.00
	Total:	0.841					0.909			1.48	0.00
	Tail:	0.165					0.165				
	Calc. Head:	1.006					1.074				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Days Leaching	Cumulative, t_s/t_o	Solution Extraction, gms Ag/MT	Carbon Weight, grams	Carbon Assay-1, oz Ag/st	Carbon Assay-2, oz Ag/st	Carbon Assay Avg., oz Ag/st	Metal on Carbon Extraction, gms Ag/MT	Extraction, % Ag	Cumulative Extraction, % Ag	NaCN Consumed, kg/MT	$Ca(OH)_2$ Added, kg/MT
0-7	0.91	0.26	210.97	1.49	1.31	1.40	0.26	49%	49%	0.15	0.00
8-18	2.03	0.02	182.15	0.16	0.05	0.11	0.02	3%	52%	0.02	0.00
19-39	3.87	0.01	111.09	0.16	0.10	0.13	0.01	2%	54%	0.12	0.00
40-143	12.76	0.03	106.15	0.47	0.57	0.52	0.05	9%	63%	1.19	0.00
	Total:	0.33					0.34			1.48	0.00
	Tail:	0.19					0.19				
	Calc. Head:	0.52					0.53				

t_s/t_o = Tonnes of solution effluent per tonne of dry ore leached.

Column Parameters

KCA Sample No.	48158	KCA Test No.	63322
Est. Dry Weight Ore, kg:	39.28	Column Area, m^2:	0.0182
Initial Ore Height, m:	1.562	Column Volume (initial), m^3:	0.0285
Final Ore Height, m:	1.486	Column Volume (final), m^3:	0.0271
Slump, %:	4.9%	Apparent Bulk Density (final), MT_{dry}/m^3:	1.449
Cement Addition, kg/MT:	3.03	Retained Moisture, L/MT_{dry}:	63.6
Agglom. Water Added, liters (1 gpL NaCN):	1.65	Mercury on C-1 Carbon, mg/kg:	0.09
Hydrated lime added during loading, kg/MT:	0.00	Final Percolation Rate, $L/Hr/m^2$:	N/A

6.2 Cyanide Column Leach Tests, Description of Apparatus

6.2.1 Drip Leach Test Apparatus

The column tests were run as a continuously drained drip leach tests. It is believed by KCA that this type of test most accurately reflects actual heap leach conditions and is normally run when the material contains enough fines to prevent channeling of solution down individual rock faces.

The apparatus used for this test is shown schematically in Figure 6-2.

6.2.2 Column Test Setup

The crushed material split out for column test work was blended with cement and then loaded into a 150 millimeter diameter plastic column. Alkaline cyanide solution was continuously distributed onto the material through Tygon tubing. The flow rate of solution dripping onto the material was controlled with a peristaltic pump to 10 to 12 liters per hour per square meter of column surface area.

The solution exiting each leach column was collected in the bottom (floor - PLS) tank. Leach solution was checked each cycle for pH, NaCN, Au and Ag. Copper was checked periodically. The solution was then passed through a bottle of granular activated carbon over a period of 24 hours to extract the gold and silver in solution. After passing through the bottle of activated carbon, the solution was re-assayed for pH, NaCN, Au and Ag. Sodium cyanide was then added, if necessary, to maintain the solution at "target" levels (discussed in the Test History section). The leach solution was then recycled to the material for another 24 hour leach period. Two (2) batches of leach solution were used so that while one batch was applied to each column, the other was run through carbon.

6.3 History of Cyanide Column Leach Test

6.3.1 Start-up of Test

The initial leach solution applied to the column contained 1.0 grams sodium cyanide per liter of solution.

6.3.2 Solution Color and Clarity

The initial and final solution color and clarity were monitored.

The solution color and clarity for the column test are presented in Table 6-11.

Figure 6-2.
Eagle Gold Project
Column Leach Test Apparatus



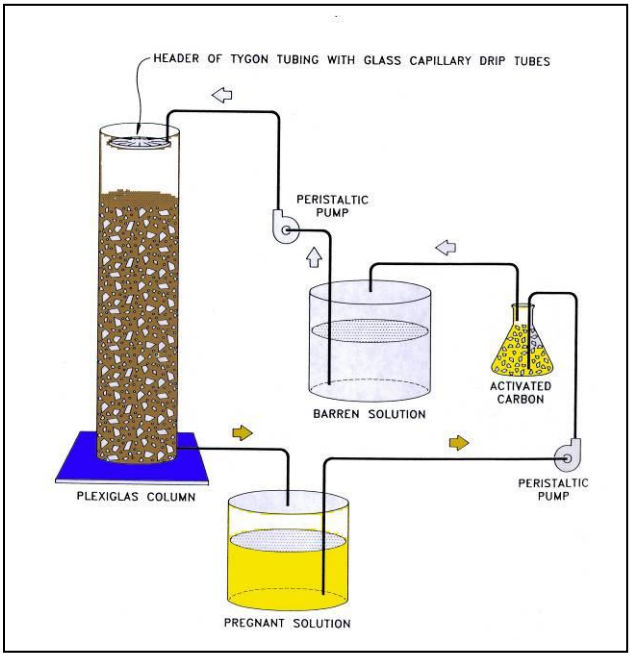


Table 6-11.
Eagle Gold Project
Effluent Solutions, Color and Clarity

KCA Sample No.	KCA Test No.	Description	Color and Clarity of Initial Column Effluent	Color and Clarity of Final Column Effluent
48158	63301	Environmental Composite	Colorless and Clear	Colorless and Clear
48158	63304	Environmental Composite	Colorless and Clear	Colorless and Clear
48158	63307	Environmental Composite	Colorless and Clear	Colorless and Clear
48158	63310	Environmental Composite	Colorless and Clear	Colorless and Clear
48158	63313	Environmental Composite	Colorless and Clear	Colorless and Clear
48158	63316	Environmental Composite	Colorless and Clear	Colorless and Clear
48158	63319	Environmental Composite	Colorless and Clear	Colorless and Clear
48158	63322	Environmental Composite	Colorless and Clear	Colorless and Clear

A "colorless and clear" solution exiting the columns is indicative of the fact that no fines migrated within the column material. Metal buildup is usually denoted by a significant color change in the solution.

6.3.3 Copper Analyses in Solutions

Interim pregnant (effluent) cyanide leach solutions were assayed (FAAS) periodically for copper content.

The lowest and highest copper values in solution data obtained over the leach period are summarized in Table 6-12.

Table 6-12.
Eagle Gold Project
Copper Concentration in Column Leach Solutions

KCA Sample No.	KCA Test No.	Description	Low Copper, mg/L	High Copper, mg/L
48158	63301	Environmental Composite	3.49	15.0
48158	63304	Environmental Composite	7.97	18.9
48158	63307	Environmental Composite	8.12	12.9
48158	63310	Environmental Composite	6.32	17.3
48158	63313	Environmental Composite	6.14	18.7
48158	63316	Environmental Composite	6.16	12.0
48158	63319	Environmental Composite	3.25	11.6
48158	63322	Environmental Composite	3.58	13.1

6.3.4 Cyanide Strength and Alkalinity

The initial leach solution for each column test contained 1.0 grams sodium cyanide per liter of leach solution. The cyanide strength of the on-flow solution was maintained at a target level of 0.60 grams of sodium cyanide per liter. Protective alkalinity in the test was maintained by the initial addition of cement during column setup. The leach solution was monitored to ensure that a high pH range was maintained throughout testing.

Reagent consumption data for the column leach tests are summarized in Table 6-13.

Table 6-13.
Eagle Gold Project
Column Leach Tests, Reagent Consumptions

KCA Sample No.	KCA Test No.	Description	NaCN Consumed, kg/MT	Cement Added, kg/MT
48158	63301	Environmental Composite	1.24	3.03
48158	63304	Environmental Composite	1.22	3.03
48158	63307	Environmental Composite	1.27	3.03
48158	63310	Environmental Composite	1.06	3.03
48158	63313	Environmental Composite	1.40	3.03
48158	63316	Environmental Composite	1.28	3.03
48158	63319	Environmental Composite	1.27	3.02
48158	63322	Environmental Composite	1.48	3.03

6.3.5 Mercury Analyses

The carbon samples from the column tests were dried at 32°C and assayed for mercury content.

The results of the mercury analyses are summarized in Tables 6-14 and 6-15.

In this table, the carbon loading of mercury was compared to the carbon loading of gold during the leach cycle. The mercury loaded onto carbon was calculated as an overall extraction of mercury from the column material.

Table 6-14.
Eagle Gold Project
Mercury Concentration and Extraction

KCA Sample No.	KCA Test No.	Description	Carbon Period	Carbon Weight, grams	Carbon Assay, gms Au/MT	Carbon Assay, gms Hg/MT	Extracted to Carbon, mg Hg/kg_{ore}	Ratio Au : Hg
48158	63301	Environmental Composite	C-1	200.30	98.95	0.10	<0.01	989
			C-2	192.68	20.40	0.13	<0.01	157
			C-3	99.90	31.29	0.025	<0.01	1,251
			C-4	116.76	46.42	0.31	<0.01	150
						Total Extracted	<0.01	--
						Column Feed Head Assay	<0.05	--

KCA Sample No.	KCA Test No.	Description	Carbon Period	Carbon Weight, grams	Carbon Assay, gms Au/MT	Carbon Assay, gms Hg/MT	Extracted to Carbon, mg Hg/kg_{ore}	Ratio Au : Hg
48158	63304	Environmental Composite	C-1	217.42	98.09	0.10	<0.01	981
			C-2	166.42	24.07	0.11	<0.01	219
			C-3	89.30	29.83	0.025	<0.01	1,193
			C-4	91.29	47.78	0.26	<0.01	184
						Total Extracted	<0.01	--
						Column Feed Head Assay	<0.05	--

KCA Sample No.	KCA Test No.	Description	Carbon Period	Carbon Weight, grams	Carbon Assay, gms Au/MT	Carbon Assay, gms Hg/MT	Extracted to Carbon, mg Hg/kg_{ore}	Ratio Au : Hg
48158	63307	Environmental Composite	C-1	208.73	90.89	0.09	<0.01	1,010
			C-2	171.10	24.53	0.10	<0.01	245
			C-3	99.71	31.34	0.025	<0.01	1,253
			C-4	132.37	40.65	0.27	<0.01	151
						Total Extracted	<0.01	--
						Column Feed Head Assay	<0.05	--

KCA Sample No.	KCA Test No.	Description	Carbon Period	Carbon Weight, grams	Carbon Assay, gms Au/MT	Carbon Assay, gms Hg/MT	Extracted to Carbon, mg Hg/kg_{ore}	Ratio Au : Hg
48158	63310	Environmental Composite	C-1	206.28	108.25	0.10	<0.01	1,082
			C-2	179.16	25.51	0.09	<0.01	283
			C-3	125.02	28.03	0.025	<0.01	1,121
			C-4	132.50	45.81	0.26	<0.01	176
						Total Extracted	<0.01	--
						Column Feed Head Assay	<0.05	--

Table 6-15.
Eagle Gold Project
Mercury Concentration and Extraction (continued)

KCA Sample No.	KCA Test No.	Description	Carbon Period	Carbon Weight, grams	Carbon Assay, gms Au/MT	Carbon Assay, gms Hg/MT	Extracted to Carbon, mg Hg/kg_{ore}	Ratio Au : Hg
48158	63313	Environmental Composite	C-1	222.62	91.32	0.06	<0.01	1,522
			C-2	169.25	22.94	0.13	<0.01	176
			C-3	95.58	32.30	0.025	<0.01	1,292
			C-4	106.89	45.40	0.30	<0.01	151
						Total Extracted	<0.01	--
						Column Feed Head Assay	<0.05	--

KCA Sample No.	KCA Test No.	Description	Carbon Period	Carbon Weight, grams	Carbon Assay, gms Au/MT	Carbon Assay, gms Hg/MT	Extracted to Carbon, mg Hg/kg_{ore}	Ratio Au : Hg
48158	63316	Environmental Composite	C-1	219.12	94.48	0.07	<0.01	1,350
			C-2	168.07	21.84	0.08	<0.01	273
			C-3	98.14	28.80	0.025	<0.01	1,152
			C-4	118.66	44.30	0.26	<0.01	170
						Total Extracted	<0.01	--
						Column Feed Head Assay	<0.05	--

KCA Sample No.	KCA Test No.	Description	Carbon Period	Carbon Weight, grams	Carbon Assay, gms Au/MT	Carbon Assay, gms Hg/MT	Extracted to Carbon, mg Hg/kg_{ore}	Ratio Au : Hg
48158	63319	Environmental Composite	C-1	192.01	89.90	0.08	<0.01	1,124
			C-2	171.09	25.73	0.10	<0.01	257
			C-3	109.27	34.44	0.025	<0.01	1,378
			C-4	109.45	50.33	0.30	<0.01	168
						Total Extracted	<0.01	--
						Column Feed Head Assay	<0.05	--

KCA Sample No.	KCA Test No.	Description	Carbon Period	Carbon Weight, grams	Carbon Assay, gms Au/MT	Carbon Assay, gms Hg/MT	Extracted to Carbon, mg Hg/kg_{ore}	Ratio Au : Hg
48158	63322	Environmental Composite	C-1	210.97	102.14	0.09	<0.01	1,135
			C-2	182.15	24.00	0.12	<0.01	200
			C-3	111.09	34.85	0.07	<0.01	498
			C-4	106.15	55.83	0.32	<0.01	174
						Total Extracted	<0.01	--
						Column Feed Head Assay	<0.05	--

6.3.6 Active Column - Profile II Analyses

Periodic solution sampling was conducted on each column throughout the duration of the leach period. The sampled solutions (Environmental Solutions) from each column were given a unique sample identification number (KCA Sample Nos. 63515 through 63522).

A summary of the column leach tests with associated Environmental Solution sample identification numbers are presented in Table 6-16.

Table 6-16.
Eagle Gold Project
Sample Identification

KCA Sample No.	KCA Test No.	Description	Column Temp. ˚C	Crush Size, mm	Environmental Solutions, Sample No.
48158	63301	Environmental Composite	22	9.5	63515
48158	63304	Environmental Composite	22	9.5	63516
48158	63307	Environmental Composite	22	9.5	63517
48158	63310	Environmental Composite	22	9.5	63518
48158	63313	Environmental Composite	22	9.5	63519
48158	63316	Environmental Composite	22	9.5	63520
48158	63319	Environmental Composite	3	9.5	63521
48158	63322	Environmental Composite	3	9.5	63522

For each column test, the pregnant solution for the first seven (7) days was sampled. The sampled solutions were combined and submitted to Western Environmental Testing Laboratory (WETLAB) for Profile II analyses. The composite pregnant solution was given a unique letter designation (A).

Periodic samples of the barren solution were then taken for the remainder of the leach period. Individual samples of barren solution were combined and submitted to WETLAB for Profile II analyses. Each barren solution sample submitted to WETLAB consisted of a composite of two (2) or three (3) individual samples. Each composite solution was given a unique letter designation (B through EE).

At the end of the leach period, a one liter sample was taken from the barren solution (the PLS from the previous day that was cycled through the activated carbon bottle). The final solution exiting the leach column (final PLS) was collected, assayed and cycled through the activated carbon bottle over the next 24 hour period. A one liter sample of the resulting barren solution was taken and combined with the previously sampled barren solution to generate a final barren solution (2 liters).

For each column leach test, a portion of the final barren solution was submitted to WETLAB for a Profile II analyses. A sample was also taken and analyzed for total cyanide, weak acid dissociable (WAD) cyanide, copper and iron.

For each individual column leach test, a summary of the sampled solutions and the individual results of the Profile II analyses are presented in Tables 6-17 through 6-56.

The received WETLAB reports are presented in Appendix B (external volume).

Table 6-17.
Eagle Gold Project
KCA Test No. 63301
Summary of Sampled Solutions

KCA Test No.	KCA Sample No.	Combined Dates	Volume, per Day	Number of Days	Solution Type	WETLAB Job No.	Notes
63301	63515 A	31 Jan - 06 Feb	20 mLs	7	Preg	1204007	Active Cyanide Leach
63301	63515 B	12, 14, 16 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63301	63515 C	13, 15 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63301	63515 D	20, 22 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63301	63515 E	19, 21, 23 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63301	63515 F	26, 28, 30 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63301	63515 G	27, 29 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63301	63515 H	2,4, 6 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63301	63515 I	3,5 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63301	63515 J	10,12 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63301	63515 K	9, 11,13 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63301	63515 L	16, 18,20 April	50 mLs	3	Barren	1205098	Active Cyanide Leach
63301	63515 M	17, 19 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63301	63515 N	24, 26 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63301	63515 O	23, 25 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63301	63515 P	1,3 May	50 mLs	2	Barren	1205098	Active Cyanide Leach
63301	63515 Q	30 April, 2, 4 May	50 mLs	3	Barren	1205098	Active Cyanide Leach
63301	63515 R	7,9,11 May	50 mLs	3	Barren	1205246	Active Cyanide Leach
63301	63515 S	8,10 May	50 mLs	2	Barren	1205246	Active Cyanide Leach
63301	63515 T	15,17 May	50 mLs	2	Barren	1205371	Active Cyanide Leach
63301	63515 U	14,16,18 May	50 mLs	3	Barren	1205371	Active Cyanide Leach
63301	63515 V	21,23,25 May	50 mLs	3	Barren	1205498	Active Cyanide Leach
63301	63515 W	22,24 May	50 mLs	2	Barren	1205498	Active Cyanide Leach
63301	63515 X	30 May, 1 June	50 mLs	2	Barren	1206013	Active Cyanide Leach
63301	63515 Y	29,31 May	50 mLs	2	Barren	1206013	Active Cyanide Leach
63301	63515 Z	5,7 June	50 mLs	2	Barren	1206174	Active Cyanide Leach
63301	63515 AA	4,6,8 June	50 mLs	3	Barren	1206174	Active Cyanide Leach
63301	63515 BB	11,13,15 June	50 mLs	3	Barren	1206371	Active Cyanide Leach
63301	63515 CC	12,14 June	50 mLs	2	Barren	1206371	Active Cyanide Leach
63301	63515 DD	19,21 June	50 mLs	2	Barren	1206562	Active Cyanide Leach
63301	63515 EE	18,20,22 June	50 mLs	3	Barren	1206562	Active Cyanide Leach
63301	Final Barren	22 June	--	--	Barren	1206607	Combined barrens submitted for Profile ll only.

Note: Lost by environmental lab

Table 6-18.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63301

		KCA Sample No. 63515 A	KCA Sample No. 63515 B	KCA Sample No. 63515 C	KCA Sample No. 63515 D	KCA Sample No. 63515 E	KCA Sample No. 63515 F	KCA Sample No. 63515 G	KCA Sample No. 63515 H
	WET Lab No.:	1204007	1204007	1204007	1204007	1204007	1204007	1204007	1204257
	Report Date:	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-May-12
Constituent	**Unit**								
pH	pH Units	--	--	--	--	--	--	--	10.29
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	-374
Bicarbonate (HCO3)	mg/L	--	--	--	--	--	--	--	<1.0
Carbonate (CO3)	mg/L	--	--	--	--	--	--	--	260
Hydroxide (OH)	mg/L	--	--	--	--	--	--	--	42
Total Alkalinity	mg/L as CaCO3	--	--	--	--	--	--	--	550
Redox Potential	mV	--	--	--	--	--	--	--	92
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	74
Total Nitrogen	mg/L	--	--	--	--	--	--	--	75
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	1500
Electrical Conductivity	µmhos/cm	--	--	--	--	--	--	--	2400
Chloride	mg/L	24	22	22	23	22	21	21	22
Fluoride	mg/L	1.2	2.3	2.1	2.4	2.4	2.6	2.5	2.8
Sulfate	mg/L	55	240	220	270	250	260	260	310
Nitrate Nitrogen	mg/L	0.44	0.52	0.47	0.50	0.49	0.49	0.52	0.24
Nitrite Nitrogen	mg/L	<0.25	0.64	0.54	0.63	0.61	0.60	0.56	0.72
Aluminum	mg/L	1.1	0.40	0.31	0.36	0.37	0.32	0.38	0.32
Barium	mg/L	0.018	0.010	<0.010	0.016	0.012	0.014	0.020	0.025
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	mg/L	0.060	0.022	0.012	0.020	0.018	0.021	0.020	0.025
Calcium	mg/L	6.9	15	14	14	12	15	15	6.0
Chromium	mg/L	0.019	0.0087	0.0083	0.0064	0.0056	<0.0050	<0.0050	<0.0050
Cobalt	mg/L	0.16	0.26	0.25	0.25	0.24	0.22	0.23	0.23
Copper	mg/L	9.3	8.3	5.8	7.2	6.7	6.0	6.6	4.7
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.14	2.0	1.8	2.3	2.3	2.6	2.8	2.9
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	1.2	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.023
Molybdenum	mg/L	0.19	0.19	0.18	0.18	0.18	0.16	0.17	0.15
Nickel	mg/L	0.53	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.016
Phosphorus	mg/L	<0.50	<0.50	0.52	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	16	18	31	16	17	15	16	15
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	0.12	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	330	420	410	460	480	490	530	530
Strontium	mg/L	1.6	0.80	0.73	0.83	0.86	0.78	0.87	0.51
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	<0.010	0.14	0.12	0.13	0.14	0.15	0.15	0.15
Zinc	mg/L	11	8.5	5.7	7.5	7.0	7.0	7.2	7.5
Mercury	mg/L	0.0047	0.0040	0.0039	0.0038	0.0036	0.0036	0.0038	0.0055
Antimony	mg/L	0.019	0.19	0.17	0.24	0.24	0.27	0.29	0.33
Arsenic	mg/L	0.023	1.3	0.89	1.8	1.9	2.5	2.6	3.6
Lead	mg/L	<0.0025	0.0060	0.014	0.0078	0.0041	0.0041	0.011	0.038
Selenium	mg/L	0.091	0.037	0.032	0.038	0.035	0.036	0.039	<0.10
Thallium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.020
Uranium	mg/L	--	--	--	--	--	--	--	<0.020
Anions	meq/L	--	--	--	--	--	--	--	18.4
Cations	meq/L	--	--	--	--	--	--	--	20.5
Error	%	--	--	--	--	--	--	--	5.4

Table 6-19.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63301 (continued)

		KCA Sample No. 63515 L	KCA Sample No. 63515 M	KCA Sample No. 63515 N	KCA Sample No. 63515 O	KCA Sample No. 63515 P	KCA Sample No. 63515 Q	KCA Sample No. 63515 R	KCA Sample No. 63515 S
	WET Lab No.:	1205098	1205098	1205098	1205098	1205098	1205098	1205246	1205246
	Report Date:	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	29-May-12	29-May-12
Constituent	**Unit**								
pH	pH Units	10.43	10.43	10.34	10.40	10.29	10.44	10.26	10.25
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbonate (CO3)	mg/L	260	230	290	310	320	320	320	310
Hydroxide (OH)	mg/L	63	86	41	41	2.7	44	48	56
Total Alkalinity	mg/L as CaCO3	620	630	600	640	540	660	680	680
Redox Potential	mV	70	--	50	47	42	45	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	2800	--	2700	2700	2500	2800	--	--
Chloride	mg/L	15	15	15	15	21	20	23	23
Fluoride	mg/L	2.6	2.5	2.9	2.7	3.5	3.4	3.5	3.5
Sulfate	mg/L	180	180	200	180	230	230	230	230
Nitrate Nitrogen	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nitrite Nitrogen	mg/L	0.52	0.52	0.58	0.52	0.70	0.66	0.71	0.62
Aluminum	mg/L	0.33	0.39	0.27	0.32	0.17	0.25	0.16	0.090
Barium	mg/L	0.010	0.020	0.010	0.012	0.010	0.022	0.027	0.014
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.11	0.11	0.13	0.12	0.12	0.12	0.13	0.13
Cadmium	mg/L	0.026	0.024	0.027	0.026	0.026	0.024	0.030	0.031
Calcium	mg/L	4.9	4.4	4.3	3.4	3.8	5.5	4.4	4.3
Chromium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt	mg/L	0.17	0.17	0.18	0.18	0.18	0.18	0.13	0.13
Copper	mg/L	5.2	4.9	5.9	5.4	4.7	4.8	2.8	2.6
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	4.7	4.6	5.2	5.2	5.2	5.4	4.6	4.2
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.020	0.024	0.015	0.033	0.012	0.088	0.041	0.041
Molybdenum	mg/L	0.098	0.093	0.096	0.094	0.093	0.094	0.093	0.094
Nickel	mg/L	0.029	0.023	0.037	0.030	0.029	0.026	0.018	0.020
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	13	12	12	13	11	12	12	12
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	500	500	530	540	500	550	590	580
Strontium	mg/L	0.35	0.36	0.30	0.31	0.24	0.31	0.27	0.26
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.16	0.16	0.18	0.16	0.17	0.16	0.16	0.16
Zinc	mg/L	6.5	5.9	6.8	6.4	6.5	6.2	6.4	6.6
Mercury	mg/L	0.0033	0.0028	0.0031	0.0026	0.0029	0.0028	0.0022	0.0059
Antimony	mg/L	0.45	0.48	0.65	0.59	0.63	0.62	0.63	0.58
Arsenic	mg/L	5.8	6.0	8.1	7.3	8.4	7.9	8.8	7.7
Lead	mg/L	0.010	0.021	0.011	0.020	0.014	0.023	0.028	0.020
Selenium	mg/L	0.024	0.023	0.025	0.024	0.028	0.026	<0.050	<0.050
Thallium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.050	<0.050	<0.010	<0.010
Anions	meq/L	16.7	17.0	16.8	17.1	16.4	18.8	19.1	19.3
Cations	meq/L	23.0	22.9	24.3	24.7	22.9	25.2	26.7	26.3
Error	%	16	15	18	18	16	15	17	15

Table 6-20.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63301 (continued)

		KCA Sample No. 63515 T	KCA Sample No. 63515 U	KCA Sample No. 63515 V	KCA Sample No. 63515 W	KCA Sample No. 63515 X	KCA Sample No. 63515 Y	KCA Sample No. 63515 Z	KCA Sample No. 63515 AA
	WET Lab No.:	1205371	1205371	1205498	1205498	1206013	1206013	1206174	1206174
	Report Date:	4-Jun-12	4-Jun-12	5-Jun-12	5-Jun-12	6-Jun-12	6-Jun-12	20-Jun-12	20-Jun-12
Constituent	**Unit**								
pH	pH Units	10.30	10.32	10.27	10.31	--	--	10.17	10.41
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0
Carbonate (CO3)	mg/L	340	330	430	380	--	--	450	440
Hydroxide (OH)	mg/L	24	14	9.5	57	--	--	16	35
Total Alkalinity	mg/L as CaCO3	640	590	740	800	--	--	800	840
Redox Potential	mV	69	62	--	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	3000	2800	--	--	--	--	--	--
Chloride	mg/L	25	25	25	25	28	26	29	28
Fluoride	mg/L	3.8	4.1	3.6	3.3	3.7	3.7	3.8	3.9
Sulfate	mg/L	250	250	250	260	240	230	220	230
Nitrate Nitrogen	mg/L	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
Nitrite Nitrogen	mg/L	0.79	0.80	--	--	0.85	0.70	0.85	0.76
Aluminum	mg/L	0.092	0.12	0.090	0.095	0.095	0.061	0.25	0.25
Barium	mg/L	0.010	<0.010	0.012	0.018	<0.010	<0.010	0.016	0.015
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.15	0.16	0.14	0.14	0.16	0.16	0.18	0.18
Cadmium	mg/L	0.039	0.036	0.033	0.039	0.050	0.043	0.044	0.045
Calcium	mg/L	4.2	3.5	3.8	4.4	4.2	2.8	4.8	5.4
Chromium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt	mg/L	0.21	0.21	0.13	0.12	0.22	0.22	0.16	0.19
Copper	mg/L	5.5	5.3	2.6	2.4	7.0	6.9	6.2	6.2
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	6.3	6.4	6.6	6.1	9.9	10	9.7	9.7
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.023	0.013	0.076	0.076	0.057	0.12	0.060	0.075
Molybdenum	mg/L	0.11	0.11	0.090	0.091	0.10	0.11	0.10	0.10
Nickel	mg/L	0.040	0.038	0.024	0.026	0.069	0.049	0.066	0.070
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	11	11	11	12	11	11	10	11
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	580	580	690	710	730	720	800	820
Strontium	mg/L	0.24	0.22	0.23	0.24	0.23	0.22	0.22	0.25
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.18	0.21	0.16	0.14	0.19	0.20	0.21	0.22
Zinc	mg/L	8.1	7.6	6.7	7.4	9.0	8.7	8.3	8.6
Mercury	mg/L	0.0052	0.0048	0.0079	0.0086	0.0052	0.0059	0.0081	0.0071
Antimony	mg/L	0.85	0.93	0.85	0.82	0.84	0.78	1.0	1.0
Arsenic	mg/L	11	12	11	10	11	10	12	12
Lead	mg/L	0.015	0.015	0.026	0.025	<0.020	0.020	0.046	0.041
Selenium	mg/L	0.031	0.037	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	mg/L	<0.0010	<0.0010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Anions	meq/L	18.9	17.9	21.0	22.3	--	--	21.5	22.5
Cations	meq/L	26.5	26.4	31.1	32.1	--	--	36.3	37.2
Error	%	17	19	19	18	--	--	26	25

Table 6-21.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63301 (continued)

		KCA Sample No. 63515 BB	KCA Sample No. 63515 CC	KCA Sample No. 63515 DD	KCA Sample No. 63515 EE	KCA Sample No. 63515 Final Barren
	WET Lab No.:	1206371	1206371	1206562	1206562	1206607
	Report Date:	25-Jun-12	25-Jun-12	3-Jul-12	3-Jul-12	24-Jul-12
Constituent	**Unit**					
pH	pH Units	10.13	10.24	9.72	9.75	9.51
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	150	<1.0	210	320	460
Carbonate (CO3)	mg/L	360	440	200	180	150
Hydroxide (OH)	mg/L	<1.0	4.8	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	730	750	590	560	620
Redox Potential	mV	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	89
Total Nitrogen	mg/L	--	--	--	--	89
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	1700
Electrical Conductivity	µmhos/cm	--	--	--	--	--
Chloride	mg/L	31	34	32	32	32
Fluoride	mg/L	4.0	4.1	4.1	4.1	4.1
Sulfate	mg/L	220	210	210	210	210
Nitrate Nitrogen	mg/L	<1.00	<1.00	--	--	0.75
Nitrite Nitrogen	mg/L	0.92	0.82	--	--	
Aluminum	mg/L	0.48	0.45	1.4	1.6	1.8
Barium	mg/L	0.015	0.024	0.022	0.022	0.037
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.20	0.19	0.17	0.17	0.16
Cadmium	mg/L	0.045	0.043	0.017	0.018	0.0064
Calcium	mg/L	5.1	6.1	8.0	7.1	29
Chromium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0053
Cobalt	mg/L	0.24	0.22	0.17	0.24	0.17
Copper	mg/L	6.8	5.8	2.1	5.9	3.2
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	12	11	7.2	12	11
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.029	0.099	0.028	0.037	0.039
Molybdenum	mg/L	0.11	0.10	0.089	0.098	0.091
Nickel	mg/L	0.068	0.056	0.036	0.052	0.030
Phosphorus	mg/L	<0.50	<0.50	--	--	<0.50
Potassium	mg/L	9.4	9.3	7.8	7.9	7.3
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	780	780	690	670	610
Strontium	mg/L	0.20	0.21	0.17	0.16	0.45
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.24	0.23	0.15	0.23	0.20
Zinc	mg/L	9.0	8.8	3.9	3.8	1.3
Mercury	mg/L	0.0025	0.0020	0.0031	0.0039	0.0034
Antimony	mg/L	1.0	0.96	1.1	1.2	1.2
Arsenic	mg/L	13	12	17	17	15
Lead	mg/L	0.063	0.057	0.16	0.15	0.23
Selenium	mg/L	<0.10	<0.10	0.090	0.090	0.040
Thallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.0010
Anions	meq/L	20.1	20.5	--	--	18.1
Cations	meq/L	35.6	35.6	--	--	29.1
Error	%	27.8	26.9	--	--	23
Cyanate	mg/L	--	--	--	--	120
Thiocyanate	mg/L	--	--	--	--	41
Ammonia, as Nitrogen	mg/L	--	--	--	--	71

Table 6-22.
Eagle Gold Project
KCA Test No. 63304
Summary of Sampled Solutions

KCA Test No.	KCA Sample No.	Combined Dates	Volume, per Day	Number of Days	Solution Type	WETLAB Job No.	Notes
63304	63516 A	31 Jan - 06 Feb	20 mLs	7	Preg	1204007	Active Cyanide Leach
63304	63516 B	12, 14, 16 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63304	63516 C	13, 15 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63304	63516 D	20, 22 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63304	63516 E	19, 21, 23 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63304	63516 F	26, 28, 30 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63304	63516 G	27, 29 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63304	63516 H	2,4, 6 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63304	63516 I	3,5 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63304	63516 J	10,12 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63304	63516 K	9, 11,13 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63304	63516 L	16, 18,20 April	50 mLs	3	Barren	1205098	Active Cyanide Leach
63304	63516 M	17, 19 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63304	63516 N	24, 26 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63304	63516 O	23, 25 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63304	63516 P	1,3 May	50 mLs	2	Barren	1205098	Active Cyanide Leach
63304	63516 Q	30 April, 2, 4 May	50 mLs	3	Barren	1205098	Active Cyanide Leach
63304	63516 R	7,9,11 May	50 mLs	3	Barren	1205246	Active Cyanide Leach
63304	63516 S	8,10 May	50 mLs	2	Barren	1205246	Active Cyanide Leach
63304	63516 T	15,17 May	50 mLs	2	Barren	1205371	Active Cyanide Leach
63304	63516 U	14,16,18 May	50 mLs	3	Barren	1205371	Active Cyanide Leach
63304	63516 V	21,23,25 May	50 mLs	3	Barren	1205498	Active Cyanide Leach
63304	63516 W	22,24 May	50 mLs	2	Barren	1205498	Active Cyanide Leach
63304	63516 X	30 May, 1 June	50 mLs	2	Barren	1206013	Active Cyanide Leach
63304	63516 Y	29,31 May	50 mLs	2	Barren	1206013	Active Cyanide Leach
63304	63516 Z	5,7 June	50 mLs	2	Barren	1206174	Active Cyanide Leach
63304	63516 AA	4,6,8 June	50 mLs	3	Barren	1206174	Active Cyanide Leach
63304	63516 BB	11,13,15 June	50 mLs	3	Barren	1206371	Active Cyanide Leach
63304	63516 CC	12,14 June	50 mLs	2	Barren	1206371	Active Cyanide Leach
63304	63516 DD	19,21 June	50 mLs	2	Barren	1206562	Active Cyanide Leach
63304	63516 EE	18,20,22 June	50 mLs	3	Barren	1206562	Active Cyanide Leach
63304	Final Barren	22 June	--	--	Barren	1206607	Combined barrens submitted for Profile II only.

Note: Lost by environmental lab

Table 6-23.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63304

		KCA Sample No. 63516 A	KCA Sample No. 63516 B	KCA Sample No. 63516 C	KCA Sample No. 63516 D	KCA Sample No. 63516 E	KCA Sample No. 63516 F	KCA Sample No. 63516 G	KCA Sample No. 63516 H
	WET Lab No.:	1204007	1204007	1204007	1204007	1204007	1204007	1204007	1204257
	Report Date:	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-May-12
Constituent	**Unit**								
pH	pH Units	--	--	--	--	--	--	--	10.25
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	-324
Bicarbonate (HCO3)	mg/L	--	--	--	--	--	--	--	<1.0
Carbonate (CO3)	mg/L	--	--	--	--	--	--	--	260
Hydroxide (OH)	mg/L	--	--	--	--	--	--	--	37
Total Alkalinity	mg/L as CaCO3	--	--	--	--	--	--	--	540
Redox Potential	mV	--	--	--	--	--	--	--	80
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	87
Total Nitrogen	mg/L	--	--	--	--	--	--	--	88
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	1700
Electrical Conductivity	µmhos/cm	--	--	--	--	--	--	--	2700
Chloride	mg/L	26	22	22	24	23	23	23	23
Fluoride	mg/L	1.2	2.1	2.1	2.5	2.3	2.6	2.4	2.8
Sulfate	mg/L	73	240	230	290	270	290	290	310
Nitrate Nitrogen	mg/L	0.42	0.50	0.47	0.50	0.48	0.50	0.52	0.23
Nitrite Nitrogen	mg/L	<0.25	0.33	0.38	0.43	0.45	0.45	0.47	0.60
Aluminum	mg/L	0.96	0.33	0.34	0.33	0.34	0.32	0.31	0.31
Barium	mg/L	0.020	0.010	0.015	<0.010	0.014	0.017	0.021	0.025
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	mg/L	0.064	0.020	0.012	0.021	0.020	0.025	0.024	0.024
Calcium	mg/L	9.0	7.7	17	7.0	12	13	21	12
Chromium	mg/L	0.014	<0.0050	0.0063	0.0050	<0.0050	<0.0050	0.0053	0.0050
Cobalt	mg/L	0.16	0.25	0.27	0.30	0.28	0.27	0.27	0.28
Copper	mg/L	10	7.4	6.2	7.3	7.5	7.4	7.3	4.0
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.33	2.7	2.9	3.8	3.7	4.3	4.1	4.0
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	0.79	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	0.0087	<0.0050	0.016
Molybdenum	mg/L	0.22	0.18	0.19	0.22	0.21	0.21	0.21	0.18
Nickel	mg/L	0.62	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.012
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	17	17	23	16	18	16	16	15
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	0.17	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	340	430	420	480	550	580	550	580
Strontium	mg/L	2.0	0.82	0.84	0.68	0.98	0.87	0.99	0.76
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	<0.010	0.10	0.11	0.13	0.12	0.14	0.12	0.14
Zinc	mg/L	12	7.8	6.2	8.2	8.1	8.9	8.8	7.8
Mercury	mg/L	0.0055	0.0033	0.0036	0.0044	0.0041	0.0040	0.0041	0.0079
Antimony	mg/L	0.019	0.18	0.17	0.24	0.24	0.27	0.24	0.31
Arsenic	mg/L	0.029	0.90	0.99	2.1	1.6	2.3	2.0	3.2
Lead	mg/L	<0.0025	0.0051	0.011	0.0044	0.0048	0.0054	0.012	0.037
Selenium	mg/L	0.10	0.035	0.027	0.032	0.030	0.034	0.033	<0.10
Thallium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.020
Uranium	mg/L	--	--	--	--	--	--	--	<0.020
Anions	meq/L	--	--	--	--	--	--	--	18.1
Cations	meq/L	--	--	--	--	--	--	--	23.5
Error	%	--	--	--	--	--	--	--	13

Table 6-24.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63304 (continued)

		KCA Sample No. 63516 L	KCA Sample No. 63516 M	KCA Sample No. 63516 N	KCA Sample No. 63516 O	KCA Sample No. 63516 P	KCA Sample No. 63516 Q	KCA Sample No. 63516 R	KCA Sample No. 63516 S
	WET Lab No.:	1205098	1205098	1205098	1205098	1205098	1205098	1205246	1205246
	Report Date:	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	29-May-12	29-May-12
Constituent	**Unit**								
pH	pH Units	10.45	10.38	10.40	10.36	10.46	10.53	10.22	10.32
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbonate (CO3)	mg/L	270	270	270	300	300	300	280	320
Hydroxide (OH)	mg/L	23	39	15	33	39	80	39	29
Total Alkalinity	mg/L as CaCO3	520	570	500	600	620	740	590	650
Redox Potential	mV	53	68	50	48	43	60	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	2900	3000	3000	3100	3200	3700	--	--
Chloride	mg/L	23	22	22	23	24	24	25	24
Fluoride	mg/L	3.6	3.4	3.9	3.8	4.0	3.8	4.2	4.1
Sulfate	mg/L	340	320	340	350	370	360	360	350
Nitrate Nitrogen	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nitrite Nitrogen	mg/L	0.64	0.64	0.66	0.67	0.64	0.66	0.76	0.84
Aluminum	mg/L	0.38	0.36	0.40	0.72	0.24	0.27	0.099	0.10
Barium	mg/L	0.015	0.020	0.024	0.074	0.022	0.036	0.017	0.014
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.10	<0.10	0.12	0.12	0.12	0.13	0.14	0.14
Cadmium	mg/L	0.023	0.024	0.023	0.028	0.032	0.032	0.038	0.038
Calcium	mg/L	6.2	6.4	6.7	7.0	6.9	7.4	6.9	5.3
Chromium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	<0.0050	<0.0050
Cobalt	mg/L	0.28	0.26	0.29	0.30	0.32	0.30	0.18	0.19
Copper	mg/L	6.5	6.1	5.4	5.9	5.7	5.5	4.0	2.8
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	4.9	4.4	5.5	6.6	7.0	6.9	5.3	4.7
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.015	0.019	0.015	0.058	0.030	0.065	0.0098	0.017
Molybdenum	mg/L	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.16
Nickel	mg/L	0.017	0.016	0.021	0.028	0.036	0.037	0.027	0.020
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	13	12	13	14	13	14	12	13
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	580	660	590	730	780	800	730	760
Strontium	mg/L	0.58	0.55	0.46	0.56	0.49	0.50	0.40	0.38
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.15	0.15	0.17	0.15	0.16	0.15	0.16	0.14
Zinc	mg/L	7.3	7.6	7.5	8.4	9.3	9.5	9.2	9.0
Mercury	mg/L	0.0036	0.0040	0.0044	0.0052	0.0058	0.0057	0.011	0.0091
Antimony	mg/L	0.50	0.47	0.61	0.58	0.62	0.60	0.69	0.71
Arsenic	mg/L	5.7	5.6	7.3	6.6	7.5	7.1	8.6	8.1
Lead	mg/L	0.0095	0.014	0.013	0.054	0.013	0.026	0.016	0.0093
Selenium	mg/L	0.030	0.029	0.032	0.033	0.035	<0.25	<0.050	<0.050
Thallium	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.0010
Anions	meq/L	18.3	18.8	17.8	20.1	20.9	23.1	20.1	20.6
Cations	meq/L	26.6	30.0	27.1	33.3	35.5	36.4	33.1	34.3
Error	%	19	23	21	25	26	22	24	25

Table 6-25.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63304 (continued)

		KCA Sample No. 63516 T	KCA Sample No. 63516 U	KCA Sample No. 63516 V	KCA Sample No. 63516 W	KCA Sample No. 63516 X	KCA Sample No. 63516 Y	KCA Sample No. 63516 Z	KCA Sample No. 63516 AA
	WET Lab No.:	1205371	1205371	1205498	1205498	1206013	1206013	1206174	1206174
	Report Date:	4-Jun-12	4-Jun-12	5-Jun-12	5-Jun-12	6-Jun-12	6-Jun-12	20-Jun-12	20-Jun-12
Constituent	**Unit**								
pH	pH Units	10.41	10.37	10.40	10.39	--	--	10.26	10.38
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0
Carbonate (CO3)	mg/L	330	340	360	360	--	--	460	420
Hydroxide (OH)	mg/L	34	27	60	27	--	--	1.4	62
Total Alkalinity	mg/L as CaCO3	650	640	780	670	--	--	760	880
Redox Potential	mV	57	51	--	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	3500	3500	--	--	--	--	--	--
Chloride	mg/L	24	25	25	24	26	26	25	24
Fluoride	mg/L	4.1	4.1	3.7	3.9	4.2	4.2	4.3	3.9
Sulfate	mg/L	330	340	380	360	320	330	300	290
Nitrate Nitrogen	mg/L	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
Nitrite Nitrogen	mg/L	0.77	0.85	--	--	0.81	0.86	0.89	0.76
Aluminum	mg/L	0.085	0.13	0.093	0.096	<0.045	<0.045	0.080	0.25
Barium	mg/L	<0.010	0.021	0.023	0.022	<0.010	<0.010	<0.010	0.057
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.15	0.16	0.13	0.14	0.16	0.15	0.18	0.17
Cadmium	mg/L	0.042	0.048	0.038	0.038	0.044	0.042	0.048	0.043
Calcium	mg/L	4.1	4.9	5.9	4.7	3.0	3.7	5.1	5.4
Chromium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0055
Cobalt	mg/L	0.30	0.30	0.17	0.17	0.31	0.22	0.15	0.20
Copper	mg/L	7.2	7.8	2.8	3.6	8.3	5.6	4.8	6.0
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	6.8	7.3	5.8	5.9	8.3	7.4	7.3	8.7
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.022	0.020	0.11	0.025	0.048	0.012	0.026	0.18
Molybdenum	mg/L	0.17	0.17	0.15	0.15	0.16	0.16	0.16	0.15
Nickel	mg/L	0.051	0.064	0.021	0.028	0.053	0.038	0.051	0.052
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	12	12	13	12	11	11	11	12
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	740	770	870	780	770	780	920	910
Strontium	mg/L	0.30	0.30	0.34	0.28	0.24	0.24	0.27	0.28
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.18	0.18	0.14	0.16	0.20	0.17	0.21	0.19
Zinc	mg/L	9.6	10	9.0	8.7	10	9.6	10	9.3
Mercury	mg/L	0.0088	0.0085	0.0099	0.0092	0.0074	0.0073	0.0075	0.0051
Antimony	mg/L	0.78	0.79	0.83	0.82	0.80	0.82	1.0	0.93
Arsenic	mg/L	9.6	9.7	10	11	11	11	13	12
Lead	mg/L	0.012	0.031	0.031	0.036	<0.020	<0.020	0.020	0.055
Selenium	mg/L	0.056	0.057	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	mg/L	<0.0010	<0.0010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Anions	meq/L	20.8	20.9	24.3	22.0	--	--	22.6	24.6
Cations	meq/L	33.6	35.0	39.2	35.2	--	--	41.4	41.1
Error	%	24	25	23	23	--	--	29	25

Table 6-26.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63304 (continued)

		KCA Sample No. 63516 BB	KCA Sample No. 63516 CC	KCA Sample No. 63516 DD	KCA Sample No. 63516 EE	KCA Sample No. 63516 Final Barren
	WET Lab No.:	1206371	1206371	1206562	1206562	1206607
	Report Date:	25-Jun-12	25-Jun-12	3-Jul-12	3-Jul-12	24-Jul-12
Constituent	**Unit**					
pH	pH Units	10.23	10.26	9.73	9.78	9.45
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	340	220	470
Carbonate (CO3)	mg/L	430	460	210	170	130
Hydroxide (OH)	mg/L	22	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	780	760	630	460	600
Redox Potential	mV	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	120
Total Nitrogen	mg/L	--	--	--	--	120
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	1800
Electrical Conductivity	µmhos/cm	--	--	--	--	--
Chloride	mg/L	23	23	24	24	24
Fluoride	mg/L	4.1	4.1	4.3	4.1	4.4
Sulfate	mg/L	250	260	260	260	260
Nitrate Nitrogen	mg/L	<1.00	<1.00	--	--	0.71
Nitrite Nitrogen	mg/L	0.76	0.90	--	--	
Aluminum	mg/L	0.25	0.29	1.2	1.2	1.5
Barium	mg/L	0.017	0.012	0.018	0.017	0.033
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.19	0.19	0.18	0.18	0.17
Cadmium	mg/L	0.048	0.052	0.024	0.027	0.013
Calcium	mg/L	5.2	5.2	6.8	7.0	29
Chromium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt	mg/L	0.26	0.26	0.29	0.30	0.21
Copper	mg/L	6.2	6.1	7.1	7.6	4.8
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	8.4	8.5	9.6	9.8	8.9
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.032	0.028	0.021	0.020	0.022
Molybdenum	mg/L	0.14	0.15	0.14	0.14	0.13
Nickel	mg/L	0.072	0.073	0.086	0.099	0.061
Phosphorus	mg/L	<0.50	<0.50	--	--	<0.50
Potassium	mg/L	10	11	8.4	8.7	8.1
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	800	900	740	760	680
Strontium	mg/L	0.22	0.23	0.19	0.19	0.49
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.22	0.22	0.22	0.21	0.20
Zinc	mg/L	9.9	11	5.9	7.0	4.5
Mercury	mg/L	0.0042	0.0036	0.0091	0.0056	0.0037
Antimony	mg/L	0.89	0.98	1.2	1.3	1.3
Arsenic	mg/L	12	14	18	18	17
Lead	mg/L	0.042	0.036	0.13	0.11	0.18
Selenium	mg/L	<0.10	<0.10	0.11	0.10	0.048
Thallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.0010
Anions	meq/L	21.7	21.6	--	--	18.4
Cations	meq/L	36.3	40.7	--	--	32.2
Error	%	25.2	30.6	--	--	27
Cyanate	mg/L	--	--	--	--	160
Thiocyanate	mg/L	--	--	--	--	54
Ammonia, as Nitrogen	mg/L	--	--	--	--	67

Table 6-27.
Eagle Gold Project
KCA Test No. 63307
Summary of Sampled Solutions

KCA Test No.	KCA Sample No.	Combined Dates	Volume, per Day	Number of Days	Solution Type	WETLAB Job No.	Notes
63307	63517 A	31 Jan - 06 Feb	20 mLs	7	Preg	1204007	Active Cyanide Leach
63307	63517 B	12, 14, 16 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63307	63517 C	13, 15 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63307	63517 D	20, 22 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63307	63517 E	19, 21, 23 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63307	63517 F	26, 28, 30 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63307	63517 G	27, 29 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63307	63517 H	2,4, 6 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63307	63517 I	3,5 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63307	63517 J	10,12 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63307	63517 K	9, 11,13 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63307	63517 L	16, 18,20 April	50 mLs	3	Barren	1205098	Active Cyanide Leach
63307	63517 M	17, 19 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63307	63517 N	24, 26 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63307	63517 O	23, 25 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63307	63517 P	1,3 May	50 mLs	2	Barren	1205098	Active Cyanide Leach
63307	63517 Q	30 April, 2, 4 May	50 mLs	3	Barren	1205098	Active Cyanide Leach
63307	63517 R	7,9,11 May	50 mLs	3	Barren	1205246	Active Cyanide Leach
63307	63517 S	8,10 May	50 mLs	2	Barren	1205246	Active Cyanide Leach
63307	63517 T	15,17 May	50 mLs	2	Barren	1205371	Active Cyanide Leach
63307	63517 U	14,16,18 May	50 mLs	3	Barren	1205371	Active Cyanide Leach
63307	63517 V	21,23,25 May	50 mLs	3	Barren	1205498	Active Cyanide Leach
63307	63517 W	22,24 May	50 mLs	2	Barren	1205498	Active Cyanide Leach
63307	63517 X	30 May, 1 June	50 mLs	2	Barren	1206013	Active Cyanide Leach
63307	63517 Y	29,31 May	50 mLs	2	Barren	1206013	Active Cyanide Leach
63307	63517 Z	5,7 June	50 mLs	2	Barren	1206174	Active Cyanide Leach
63307	63517 AA	4,6,8 June	50 mLs	3	Barren	1206174	Active Cyanide Leach
63307	63517 BB	11,13,15 June	50 mLs	3	Barren	1206371	Active Cyanide Leach
63307	63517 CC	12,14 June	50 mLs	2	Barren	1206371	Active Cyanide Leach
63307	63517 DD	19,21 June	50 mLs	2	Barren	1206562	Active Cyanide Leach
63307	63517 EE	18,20,22 June	50 mLs	3	Barren	1206562	Active Cyanide Leach
63307	Final Barren	22 June	--	--	Barren	1206607	Combined barrens submitted for Profile ll only.

Note: Lost by environmental lab

Table 6-28.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63307

		KCA Sample No. 63517 A	KCA Sample No. 63517 B	KCA Sample No. 63517 C	KCA Sample No. 63517 D	KCA Sample No. 63517 E	KCA Sample No. 63517 F	KCA Sample No. 63517 G	KCA Sample No. 63517 H
	WET Lab No.:	1204007	1204007	1204007	1204007	1204007	1204007	1204007	1204257
	Report Date:	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-May-12
Constituent	**Unit**								
pH	pH Units	--	--	--	--	--	--	--	10.25
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	-418
Bicarbonate (HCO3)	mg/L	--	--	--	--	--	--	--	<1.0
Carbonate (CO3)	mg/L	--	--	--	--	--	--	--	240
Hydroxide (OH)	mg/L	--	--	--	--	--	--	--	40
Total Alkalinity	mg/L as CaCO3	--	--	--	--	--	--	--	510
Redox Potential	mV	--	--	--	--	--	--	--	80
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	88
Total Nitrogen	mg/L	--	--	--	--	--	--	--	89
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	1700
Electrical Conductivity	µmhos/cm	--	--	--	--	--	--	--	2800
Chloride	mg/L	22	22	21	23	23	22	21	22
Fluoride	mg/L	1.1	2.5	1.9	2.6	2.4	2.6	2.4	2.8
Sulfate	mg/L	59	250	220	280	280	290	270	300
Nitrate Nitrogen	mg/L	0.42	0.49	0.46	0.50	0.50	0.50	0.51	0.23
Nitrite Nitrogen	mg/L	<0.25	0.42	0.31	0.50	0.47	0.46	0.46	0.57
Aluminum	mg/L	1.1	0.44	0.32	0.38	0.33	0.32	0.72	0.39
Barium	mg/L	0.040	0.018	0.013	0.015	0.016	0.012	0.11	0.035
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	mg/L	0.063	0.023	0.016	0.021	0.019	0.025	0.023	0.024
Calcium	mg/L	30	5.0	20	13	25	15	15	7.1
Chromium	mg/L	0.017	0.0092	0.0090	0.0087	0.0085	0.0054	0.0094	0.0065
Cobalt	mg/L	0.13	0.29	0.27	0.29	0.24	0.27	0.26	0.28
Copper	mg/L	8.5	7.4	6.8	6.9	5.7	6.6	6.4	3.8
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.16	2.6	2.5	3.2	2.6	3.6	4.4	4.4
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	1.0	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	<0.0050	0.0085	<0.0050	<0.025	<0.0050	<0.0050	0.072	0.046
Molybdenum	mg/L	0.19	0.20	0.20	0.21	0.20	0.20	0.19	0.17
Nickel	mg/L	0.51	<0.010	<0.010	0.012	0.016	<0.010	0.021	<0.010
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	17	13	24	13	13	13	12	13
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	0.10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	340	390	420	440	490	520	470	560
Strontium	mg/L	2.8	0.59	0.88	0.76	1.1	0.81	0.75	0.65
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	<0.010	0.14	0.11	0.14	0.13	0.14	0.14	0.14
Zinc	mg/L	12	8.2	7.0	7.9	7.4	8.6	8.0	7.5
Mercury	mg/L	0.0050	0.0035	0.0032	0.0039	0.0026	0.0038	0.0040	0.0078
Antimony	mg/L	0.019	0.20	0.18	0.24	0.20	0.30	0.26	0.31
Arsenic	mg/L	0.019	1.6	0.89	2.0	1.5	2.6	2.3	3.2
Lead	mg/L	<0.0025	0.010	0.0086	0.0073	0.0043	0.0054	0.073	0.046
Selenium	mg/L	0.089	0.046	0.042	0.042	0.027	0.032	0.030	<0.10
Thallium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.020
Uranium	mg/L	--	--	--	--	--	--	--	<0.020
Anions	meq/L	--	--	--	--	--	--	--	17.4
Cations	meq/L	--	--	--	--	--	--	--	21.4
Error	%	--	--	--	--	--	--	--	10

Table 6-29.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63307 (continued)

		KCA Sample No. 63517 L	KCA Sample No. 63517 M	KCA Sample No. 63517 N	KCA Sample No. 63517 O	KCA Sample No. 63517 P	KCA Sample No. 63517 Q	KCA Sample No. 63517 R	KCA Sample No. 63517 S
	WET Lab No.:	1205098	1205098	1205098	1205098	1205098	1205098	1205246	1205246
	Report Date:	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	29-May-12	29-May-12
Constituent	**Unit**								
pH	pH Units	10.24	10.29	10.47	10.35	10.38	10.40	10.27	10.28
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbonate (CO3)	mg/L	240	250	290	280	300	290	350	360
Hydroxide (OH)	mg/L	16	29	71	35	39	27	39	30
Total Alkalinity	mg/L as CaCO3	450	500	690	580	620	570	700	680
Redox Potential	mV	56	58	56	55	50	47	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	2600	2900	3400	3000	3300	3400	--	--
Chloride	mg/L	23	22	23	23	25	25	25	24
Fluoride	mg/L	3.5	3.3	3.5	3.7	3.7	3.7	3.6	3.8
Sulfate	mg/L	320	310	320	320	320	330	310	300
Nitrate Nitrogen	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nitrite Nitrogen	mg/L	0.64	0.62	0.72	0.65	0.69	0.70	0.63	0.70
Aluminum	mg/L	0.35	0.45	0.23	0.23	0.16	0.14	0.16	0.069
Barium	mg/L	0.014	0.034	0.013	0.013	0.018	0.019	0.041	0.012
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	<0.10	<0.10	0.10	0.11	0.11	0.14	0.11	0.13
Cadmium	mg/L	0.021	0.019	0.023	0.028	0.031	0.027	0.032	0.036
Calcium	mg/L	4.8	6.1	5.8	5.0	7.2	5.2	5.9	4.5
Chromium	mg/L	0.0052	0.0058	<0.0050	<0.0050	<0.0050	0.0052	0.0054	<0.0050
Cobalt	mg/L	0.28	0.26	0.26	0.28	0.28	0.21	0.18	0.17
Copper	mg/L	6.4	5.8	5.6	6.8	6.3	5.3	2.9	4.2
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	4.9	4.6	5.4	5.7	6.2	4.5	5.5	5.7
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.0099	0.029	0.089	0.091	0.062	0.018	0.12	0.058
Molybdenum	mg/L	0.16	0.15	0.15	0.16	0.15	0.16	0.15	0.15
Nickel	mg/L	0.017	0.012	0.016	0.025	0.036	0.017	0.015	0.022
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	10	11	13	12	11	11	11	11
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	540	560	760	740	740	760	750	730
Strontium	mg/L	0.42	0.43	0.46	0.41	0.38	0.38	0.34	0.33
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.16	0.14	0.14	0.16	0.16	0.15	0.14	0.16
Zinc	mg/L	7.1	6.8	7.3	8.8	9.0	8.1	8.3	8.8
Mercury	mg/L	0.0043	0.0037	0.0057	0.0042	0.0066	0.0080	0.0076	0.0066
Antimony	mg/L	0.51	0.46	0.58	0.60	0.57	0.58	0.65	0.67
Arsenic	mg/L	6.4	5.4	6.3	7.2	7.3	7.9	7.3	7.6
Lead	mg/L	0.0083	0.022	0.0087	0.0089	0.021	0.019	0.035	0.0088
Selenium	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.050	<0.050
Thallium	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.0010	<0.0010	<0.0010
Anions	meq/L	16.4	17.3	21.3	18.9	19.9	19.0	21.3	20.9
Cations	meq/L	24.7	25.6	34.4	33.6	33.7	34.3	33.9	33.0
Error	%	20	19	23	28	26	29	23	22

Table 6-30.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63307 (continued)

		KCA Sample No. 63517 T	KCA Sample No. 63517 U	KCA Sample No. 63517 V	KCA Sample No. 63517 W	KCA Sample No. 63517 X	KCA Sample No. 63517 Y	KCA Sample No. 63517 Z	KCA Sample No. 63517 AA
	WET Lab No.:	1205371	1205371	1205498	1205498	1206013	1206013	1206174	1206174
	Report Date:	4-Jun-12	4-Jun-12	5-Jun-12	5-Jun-12	6-Jun-12	6-Jun-12	20-Jun-12	20-Jun-12
Constituent	**Unit**								
pH	pH Units	10.28	10.23	10.39	10.36	--	--	10.46	10.19
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	9.8	49	<1.0	<1.0	--	--	<1.0	34
Carbonate (CO3)	mg/L	420	390	400	390	--	--	480	400
Hydroxide (OH)	mg/L	<1.0	<1.0	48	22	--	--	30	<1.0
Total Alkalinity	mg/L as CaCO3	700	680	810	710	--	--	880	700
Redox Potential	mV	56	66	--	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	3600	3800	--	--	--	--	--	--
Chloride	mg/L	27	27	26	26	27	26	27	27
Fluoride	mg/L	4.0	3.8	3.5	3.7	4.0	3.8	4.0	4.3
Sulfate	mg/L	320	320	340	340	280	280	290	290
Nitrate Nitrogen	mg/L	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
Nitrite Nitrogen	mg/L	0.75	0.77	--	--	0.78	0.79	0.98	0.76
Aluminum	mg/L	0.32	0.11	0.081	0.090	0.13	0.11	0.29	0.28
Barium	mg/L	0.048	0.016	0.018	0.011	0.010	<0.010	0.012	0.015
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.14	0.13	0.13	0.13	0.15	0.14	0.17	0.17
Cadmium	mg/L	0.040	0.046	0.039	0.035	0.048	0.048	0.048	0.045
Calcium	mg/L	13	4.6	5.1	4.7	3.1	4.0	5.4	5.2
Chromium	mg/L	0.0057	<0.0050	<0.0050	<0.0050	0.0050	<0.0050	0.0051	0.0051
Cobalt	mg/L	0.30	0.29	0.15	0.16	0.28	0.18	0.24	0.24
Copper	mg/L	7.7	8.1	3.7	4.1	8.7	5.3	7.7	6.6
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	8.4	8.2	7.3	7.6	9.9	8.9	11	10
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.035	0.030	0.098	0.020	0.040	0.083	0.20	0.029
Molybdenum	mg/L	0.17	0.17	0.14	0.14	0.15	0.13	0.15	0.15
Nickel	mg/L	0.040	0.048	0.023	0.022	0.049	0.041	0.051	0.048
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	11	11	11	10	9.2	9.6	9.8	9.1
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	880	860	880	860	800	890	960	900
Strontium	mg/L	0.36	0.26	0.29	0.27	0.21	0.22	0.27	0.22
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.19	0.17	0.16	0.17	0.20	0.17	0.22	0.23
Zinc	mg/L	9.5	10	8.9	8.2	11	9.8	10	9.8
Mercury	mg/L	0.0057	0.0057	0.013	0.0067	0.0071	0.0081	0.0076	0.0074
Antimony	mg/L	0.86	0.82	0.80	0.88	0.78	0.86	0.99	1.0
Arsenic	mg/L	11	9.8	10	12	11	11	12	13
Lead	mg/L	0.054	0.020	0.024	<0.020	0.026	<0.020	0.035	0.042
Selenium	mg/L	0.063	0.056	<0.10	<0.10	<0.10	<0.10	0.10	<0.10
Thallium	mg/L	<0.0010	<0.0010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Anions	meq/L	21.8	21.4	24.2	22.3	--	--	24.8	20.9
Cations	meq/L	40.2	38.9	39.6	38.7	--	--	43.5	40.7
Error	%	30	29	24	27	--	--	27	32

Table 6-31.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63307 (continued)

		KCA Sample No. 63517 BB	KCA Sample No. 63517 CC	KCA Sample No. 63517 DD	KCA Sample No. 63517 EE	KCA Sample No. 63517 Final Barren
	WET Lab No.:	1206371	1206371	1206562	1206562	1206607
	Report Date:	25-Jun-12	25-Jun-12	3-Jul-12	3-Jul-12	24-Jul-12
Constituent	**Unit**					
pH	pH Units	10.10	10.13	9.82	9.77	9.57
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	73	100	330	380	590
Carbonate (CO3)	mg/L	460	440	230	240	180
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	820	810	660	710	780
Redox Potential	mV	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	130
Total Nitrogen	mg/L	--	--	--	--	130
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	2100
Electrical Conductivity	µmhos/cm	--	--	--	--	--
Chloride	mg/L	27	27	26	27	28
Fluoride	mg/L	4.4	4.4	4.4	4.3	4.7
Sulfate	mg/L	280	280	260	270	280
Nitrate Nitrogen	mg/L	<1.00	<1.00	--	--	0.90
Nitrite Nitrogen	mg/L	0.92	0.92	--	--	
Aluminum	mg/L	0.48	0.49	1.6	1.4	1.8
Barium	mg/L	0.038	0.015	0.022	0.021	0.051
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.19	0.19	0.18	0.18	0.18
Cadmium	mg/L	0.050	0.052	0.021	0.022	0.011
Calcium	mg/L	6.0	5.1	7.0	6.7	57
Chromium	mg/L	0.0072	0.0052	<0.050	0.0052	0.0068
Cobalt	mg/L	0.30	0.29	0.32	0.31	0.21
Copper	mg/L	6.9	7.0	7.6	7.7	5.0
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	12	12	12	12	12
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.049	0.045	0.38	0.036	0.040
Molybdenum	mg/L	0.16	0.16	0.14	0.14	0.14
Nickel	mg/L	0.054	0.055	0.065	0.072	0.053
Phosphorus	mg/L	<0.50	<0.50	--	--	0.56
Potassium	mg/L	9.7	9.4	7.4	7.7	8.2
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	970	990	770	800	760
Strontium	mg/L	0.21	0.21	0.15	0.16	0.86
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.25	0.24	0.24	0.22	0.22
Zinc	mg/L	11	11	5.2	6.2	3.7
Mercury	mg/L	0.0036	0.0045	0.0053	0.0055	0.0037
Antimony	mg/L	0.96	1.0	1.2	1.2	1.3
Arsenic	mg/L	13	14	17	18	17
Lead	mg/L	0.075	0.059	0.16	0.14	0.24
Selenium	mg/L	<0.10	<0.10	0.099	0.10	0.046
Thallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.0010
Anions	meq/L	23.4	23.1	--	--	22.6
Cations	meq/L	44.0	44.8	--	--	37.2
Error	%	30.7	31.9	--	--	24
Cyanate	mg/L	--	--	--	--	180
Thiocyanate	mg/L	--	--	--	--	56
Ammonia, as Nitrogen	mg/L	--	--	--	--	75

Table 6-32.
Eagle Gold Project
KCA Test No. 63310
Summary of Sampled Solutions

KCA Test No.	KCA Sample No.	Combined Dates	Volume, per Day	Number of Days	Solution Type	WETLAB Job No.	Notes
63310	63518 A	31 Jan - 06 Feb	20 mLs	7	Preg	1204007	Active Cyanide Leach
63310	63518 B	12, 14, 16 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63310	63518 C	13, 15 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63310	63518 D	20, 22 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63310	63518 E	19, 21, 23 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63310	63518 F	26, 28, 30 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63310	63518 G	27, 29 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63310	63518 H	2,4, 6 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63310	63518 I	3,5 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63310	63518 J	10,12 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63310	63518 K	9, 11,13 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63310	63518 L	16, 18,20 April	50 mLs	3	Barren	1205098	Active Cyanide Leach
63310	63518 M	17, 19 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63310	63518 N	24, 26 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63310	63518 O	23, 25 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63310	63518 P	1,3 May	50 mLs	2	Barren	1205098	Active Cyanide Leach
63310	63518 Q	30 April, 2, 4 May	50 mLs	3	Barren	1205098	Active Cyanide Leach
63310	63518 R	7,9,11 May	50 mLs	3	Barren	1205246	Active Cyanide Leach
63310	63518 S	8,10 May	50 mLs	2	Barren	1205246	Active Cyanide Leach
63310	63518 T	15,17 May	50 mLs	2	Barren	1205371	Active Cyanide Leach
63310	63518 U	14,16,18 May	50 mLs	3	Barren	1205371	Active Cyanide Leach
63310	63518 V	21,23,25 May	50 mLs	3	Barren	1205498	Active Cyanide Leach
63310	63518 W	22,24 May	50 mLs	2	Barren	1205498	Active Cyanide Leach
63310	63518 X	30 May, 1 June	50 mLs	2	Barren	1206013	Active Cyanide Leach
63310	63518 Y	29,31 May	50 mLs	2	Barren	1206013	Active Cyanide Leach
63310	63518 Z	5,7 June	50 mLs	2	Barren	1206174	Active Cyanide Leach
63310	63518 AA	4,6,8 June	50 mLs	3	Barren	1206174	Active Cyanide Leach
63310	63518 BB	11,13,15 June	50 mLs	3	Barren	1206371	Active Cyanide Leach
63310	63518 CC	12,14 June	50 mLs	2	Barren	1206371	Active Cyanide Leach
63310	63518 DD	19,21 June	50 mLs	2	Barren	1206562	Active Cyanide Leach
63310	63518 EE	18,20,22 June	50 mLs	3	Barren	1206562	Active Cyanide Leach
63310	Final Barren	22 June	--	--	Barren	1206607	Combined barrens submitted for Profile II only. Start Peroxide detox on 19 July.

Note: Lost by environmental lab

Table 6-33.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63310

		KCA Sample No. 63518 A	KCA Sample No. 63518 B	KCA Sample No. 63518 C	KCA Sample No. 63518 D	KCA Sample No. 63518 E	KCA Sample No. 63518 F	KCA Sample No. 63518 G	KCA Sample No. 63518 H
	WET Lab No.:	1204007	1204007	1204007	1204007	1204007	1204007	1204007	1204257
	Report Date:	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-May-12
Constituent	**Unit**								
pH	pH Units	--	--	--	--	--	--	--	10.32
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	-406
Bicarbonate (HCO3)	mg/L	--	--	--	--	--	--	--	<1.0
Carbonate (CO3)	mg/L	--	--	--	--	--	--	--	250
Hydroxide (OH)	mg/L	--	--	--	--	--	--	--	56
Total Alkalinity	mg/L as CaCO3	--	--	--	--	--	--	--	580
Redox Potential	mV	--	--	--	--	--	--	--	78
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	82
Total Nitrogen	mg/L	--	--	--	--	--	--	--	83
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	1700
Electrical Conductivity	µmhos/cm	--	--	--	--	--	--	--	3000
Chloride	mg/L	26	23	23	24	23	23	23	23
Fluoride	mg/L	1.2	2.2	2.2	2.6	2.5	2.7	2.5	2.9
Sulfate	mg/L	69	250	240	300	290	310	310	320
Nitrate Nitrogen	mg/L	0.43	0.49	0.48	0.52	0.52	0.52	0.52	0.25
Nitrite Nitrogen	mg/L	<0.25	0.43	0.39	0.46	0.46	0.46	0.50	0.62
Aluminum	mg/L	1.1	0.35	0.31	0.40	0.39	0.29	0.29	0.55
Barium	mg/L	0.030	0.010	0.011	0.022	0.020	0.016	0.018	0.091
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	mg/L	0.068	0.021	0.011	0.020	0.019	0.021	0.023	0.024
Calcium	mg/L	18	6.9	16	19	21	17	31	18
Chromium	mg/L	0.014	<0.025	0.0059	0.0051	0.0052	<0.0050	<0.0050	0.0054
Cobalt	mg/L	0.14	0.27	0.26	0.28	0.27	0.27	0.29	0.27
Copper	mg/L	10	8.3	6.5	8.0	7.7	7.8	8.4	6.6
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.10	1.4	1.5	1.8	1.7	1.8	2.0	2.9
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	1.2	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050	0.040
Molybdenum	mg/L	0.22	0.20	0.20	0.22	0.21	0.20	0.22	0.18
Nickel	mg/L	0.65	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010
Phosphorus	mg/L	<0.50	<0.50	0.65	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	17	16	25	15	15	13	14	15
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	0.13	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	310	430	400	460	470	500	540	640
Strontium	mg/L	2.4	0.78	0.74	0.90	0.98	0.89	1.1	0.99
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	<0.010	0.12	0.12	0.14	0.13	0.14	0.13	0.14
Zinc	mg/L	13	8.6	6.3	8.3	8.0	8.3	8.9	8.1
Mercury	mg/L	0.0058	0.0040	0.0035	0.0043	0.0043	0.0042	0.0045	0.0060
Antimony	mg/L	0.024	0.20	0.20	0.25	0.24	0.28	0.28	0.32
Arsenic	mg/L	0.021	1.2	0.032	1.9	1.7	2.4	2.3	3.0
Lead	mg/L	<0.0025	0.0059	0.0050	0.012	0.0073	0.0061	0.0048	0.11
Selenium	mg/L	0.11	0.035	0.032	0.038	0.031	0.032	0.036	<0.10
Thallium	mg/L	<0.0020	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.020
Uranium	mg/L	--	--	--	--	--	--	--	<0.020
Anions	meq/L	--	--	--	--	--	--	--	19.1
Cations	meq/L	--	--	--	--	--	--	--	25.7
Error	%	--	--	--	--	--	--	--	15

Table 6-34.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63310 (continued)

		KCA Sample No. 63518 L	KCA Sample No. 63518 M	KCA Sample No. 63518 N	KCA Sample No. 63518 O	KCA Sample No. 63518 P	KCA Sample No. 63518 Q	KCA Sample No. 63518 R	KCA Sample No. 63518 S
	WET Lab No.:	1205098	1205098	1205098	1205098	1205098	1205098	1205246	1205246
	Report Date:	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	29-May-12	29-May-12
Constituent	**Unit**								
pH	pH Units	10.56	10.49	10.42	10.42	10.43	10.36	10.32	10.24
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbonate (CO3)	mg/L	270	280	280	280	310	280	340	340
Hydroxide (OH)	mg/L	92	84	54	46	54	38	48	16
Total Alkalinity	mg/L as CaCO3	720	710	630	610	670	580	700	620
Redox Potential	mV	56	59	54	60	46	48	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	3300	3400	3200	3200	3400	3400	--	--
Chloride	mg/L	22	22	23	23	23	23	24	21
Fluoride	mg/L	3.2	3.3	3.8	3.9	3.7	3.8	3.8	3.6
Sulfate	mg/L	340	350	360	360	340	350	350	310
Nitrate Nitrogen	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nitrite Nitrogen	mg/L	0.58	0.61	0.63	0.63	0.61	0.63	0.73	0.53
Aluminum	mg/L	0.27	0.26	0.27	0.25	0.26	0.14	0.10	0.089
Barium	mg/L	0.013	0.016	0.014	0.016	0.040	0.016	0.016	<0.010
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.11	0.11	0.13	0.13	0.13	0.12	0.13	0.14
Cadmium	mg/L	0.026	0.029	0.029	0.032	0.029	0.028	0.042	0.038
Calcium	mg/L	11	14	8.2	7.5	8.6	7.2	6.9	4.8
Chromium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt	mg/L	0.17	0.18	0.18	0.18	0.16	0.19	0.16	0.18
Copper	mg/L	5.2	5.9	6.7	6.7	6.5	6.3	5.6	5.1
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	2.2	3.2	4.0	3.9	4.0	4.2	4.4	4.3
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.057	0.19	0.012	0.011	0.057	0.013	0.044	0.011
Molybdenum	mg/L	0.17	0.16	0.16	0.17	0.16	0.15	0.16	0.16
Nickel	mg/L	0.012	0.018	0.020	0.025	0.019	0.018	0.028	0.023
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	14	13	14	13	12	11	12	11
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	860	750	810	790	810	690	810	760
Strontium	mg/L	0.80	0.79	0.56	0.55	0.50	0.42	0.41	0.34
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.12	0.12	0.14	0.15	0.14	0.14	0.14	0.15
Zinc	mg/L	8.4	9.1	9.1	9.4	9.0	8.3	10	9.4
Mercury	mg/L	0.0060	0.0057	0.0075	0.0071	0.0089	0.0060	0.0081	0.0083
Antimony	mg/L	0.47	0.41	0.61	0.58	0.61	0.58	0.73	0.67
Arsenic	mg/L	5.2	4.4	7.0	6.9	7.4	7.3	7.4	8.3
Lead	mg/L	0.0087	0.010	0.014	0.011	0.033	0.012	0.018	0.012
Selenium	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.050	<0.050
Thallium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Anions	meq/L	22.3	22.4	20.9	20.4	21.4	19.7	22.3	19.5
Cations	meq/L	38.9	34.3	36.7	35.8	36.7	31.3	36.6	34.3
Error	%	27	21	28	27	26	23	24	27

Table 6-35.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63310 (continued)

		KCA Sample No. 63518 T	KCA Sample No. 63518 U	KCA Sample No. 63518 V	KCA Sample No. 63518 W	KCA Sample No. 63518 X	KCA Sample No. 63518 Y	KCA Sample No. 63518 Z	KCA Sample No. 63518 AA
	WET Lab No.:	1205371	1205371	1205498	1205498	1206013	1206013	1206174	1206174
	Report Date:	4-Jun-12	4-Jun-12	5-Jun-12	5-Jun-12	6-Jun-12	6-Jun-12	20-Jun-12	20-Jun-12
Constituent	**Unit**								
pH	pH Units	10.38	10.24	10.33	10.29	--	--	10.27	10.26
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	<1.0	4.9	--	--	4.9	<1.0
Carbonate (CO3)	mg/L	340	360	370	370	--	--	430	410
Hydroxide (OH)	mg/L	42	14	27	<1.0	--	--	<1.0	18
Total Alkalinity	mg/L as CaCO3	690	640	690	620	--	--	710	730
Redox Potential	mV	59	57	--	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	3600	3600	--	--	--	--	--	--
Chloride	mg/L	25	25	25	25	26	24	25	26
Fluoride	mg/L	4.1	4.0	3.5	4.0	4.1	4.0	4.2	4.1
Sulfate	mg/L	340	340	380	380	320	300	300	310
Nitrate Nitrogen	mg/L	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
Nitrite Nitrogen	mg/L	0.68	0.68	--	--	0.85	0.71	0.85	0.85
Aluminum	mg/L	0.068	0.16	<0.045	<0.045	<0.045	0.088	<0.20	<0.045
Barium	mg/L	<0.010	0.029	0.011	<0.010	<0.010	0.014	0.015	0.011
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.14	0.14	0.12	0.13	0.15	0.14	0.16	0.16
Cadmium	mg/L	0.038	0.047	0.033	0.035	0.042	0.043	0.044	0.045
Calcium	mg/L	5.1	5.4	5.0	4.2	3.3	4.1	5.0	4.9
Chromium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt	mg/L	0.28	0.29	0.17	0.18	0.32	0.19	0.24	0.24
Copper	mg/L	8.2	9.1	5.0	5.3	8.7	6.4	8.4	7.7
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	6.7	6.9	5.6	5.3	7.4	5.9	7.8	7.6
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.099	0.042	0.065	0.013	0.013	0.016	0.028	0.031
Molybdenum	mg/L	0.16	0.17	0.15	0.15	0.17	0.14	0.15	0.16
Nickel	mg/L	0.036	0.054	0.015	0.020	0.040	0.036	0.051	0.046
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	12	12	11	10	10	10	11	11
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	880	840	830	800	770	800	930	930
Strontium	mg/L	0.36	0.34	0.33	0.28	0.24	0.22	0.31	0.27
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.16	0.16	0.14	0.16	0.19	0.16	0.19	0.18
Zinc	mg/L	9.2	11	8.4	8.5	10	9.7	9.7	10
Mercury	mg/L	0.0061	0.0063	0.0062	0.0056	0.0050	0.0052	0.0095	0.0078
Antimony	mg/L	0.90	0.86	0.85	0.91	0.84	0.92	1.1	1.0
Arsenic	mg/L	11	9.8	9.9	12	11	12	12	12
Lead	mg/L	0.0064	0.032	<0.020	<0.020	<0.020	0.033	0.021	<0.020
Selenium	mg/L	0.059	0.061	<0.10	<0.10	<0.10	<0.10	0.10	<0.10
Thallium	mg/L	<0.0010	<0.0010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Anions	meq/L	21.8	20.8	22.7	21.2	--	--	21.6	22.1
Cations	meq/L	39.8	38.1	37.4	36.0	--	--	42.0	41.9
Error	%	29	29	24	26	--	--	32	31

Table 6-36.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63310 (continued)

		KCA Sample No. 63518 BB	KCA Sample No. 63518 CC	KCA Sample No. 63518 DD	KCA Sample No. 63518 EE	KCA Sample No. 63518 Final Barren
	WET Lab No.:	1206371	1206371	1206562	1206562	1206607
	Report Date:	25-Jun-12	25-Jun-12	3-Jul-12	3-Jul-12	24-Jul-12
Constituent	**Unit**					
pH	pH Units	9.98	10.07	9.66	9.67	9.36
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	110	140	300	300	540
Carbonate (CO3)	mg/L	350	330	130	130	100
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	680	660	470	470	620
Redox Potential	mV	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	120
Total Nitrogen	mg/L	--	--	--	--	120
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	1900
Electrical Conductivity	µmhos/cm	--	--	--	--	--
Chloride	mg/L	25	25	24	25	25
Fluoride	mg/L	4.2	4.4	4.3	4.0	4.4
Sulfate	mg/L	290	290	270	290	290
Nitrate Nitrogen	mg/L	<1.00	<1.00	--	--	0.82
Nitrite Nitrogen	mg/L	0.68	0.75	--	--	
Aluminum	mg/L	0.21	0.21	1.4	0.98	1.4
Barium	mg/L	0.036	0.014	0.027	0.017	0.051
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.17	0.19	0.16	0.16	0.11
Cadmium	mg/L	0.045	0.046	0.016	0.018	0.0067
Calcium	mg/L	6.5	5.8	8.0	7.2	65
Chromium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0053
Cobalt	mg/L	0.28	0.29	0.32	0.34	0.26
Copper	mg/L	7.0	7.2	6.7	6.8	4.0
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	8.2	8.4	9.3	9.3	8.7
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.042	0.017	0.031	0.023	0.022
Molybdenum	mg/L	0.16	0.16	0.15	0.16	0.15
Nickel	mg/L	0.038	0.047	0.040	0.040	0.029
Phosphorus	mg/L	<0.50	<0.50	--	--	<0.50
Potassium	mg/L	11	10	7.8	7.9	7.6
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	920	920	730	770	710
Strontium	mg/L	0.26	0.26	0.21	0.21	0.99
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.20	0.22	0.21	0.19	0.18
Zinc	mg/L	11	11	3.6	4.4	1.4
Mercury	mg/L	0.0036	0.0024	0.0052	0.0057	0.0035
Antimony	mg/L	1.0	1.1	1.3	1.3	1.4
Arsenic	mg/L	13	15	18	17	17
Lead	mg/L	0.051	0.040	0.13	0.085	0.21
Selenium	mg/L	<0.10	<0.10	0.096	0.096	0.044
Thallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.0010
Anions	meq/L	20.4	20.3	--	--	19.2
Cations	meq/L	41.6	41.6	--	--	35.1
Error	%	34.2	34.5	--	--	29
Cyanate	mg/L	--	--	--	--	170
Thiocyanate	mg/L	--	--	--	--	56
Ammonia, as Nitrogen	mg/L	--	--	--	--	29

Table 6-37.
Eagle Gold Project
KCA Test No. 63313
Summary of Sampled Solutions

KCA Test No.	KCA Sample No.	Combined Dates	Volume, per Day	Number of Days	Solution Type	WETLAB Job No.	Notes
63313	63519 A	31 Jan - 06 Feb	20 mLs	7	Preg	1204007	Active Cyanide Leach
63313	63519 B	12, 14, 16 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63313	63519 C	13, 15 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63313	63519 D	20, 22 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63313	63519 E	19, 21, 23 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63313	63519 F	26, 28, 30 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63313	63519 G	27, 29 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63313	63519 H	2,4, 6 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63313	63519 I	3,5 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63313	63519 J	10,12 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63313	63519 K	9, 11,13 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63313	63519 L	16, 18,20 April	50 mLs	3	Barren	1205098	Active Cyanide Leach
63313	63519 M	17, 19 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63313	63519 N	24, 26 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63313	63519 O	23, 25 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63313	63519 P	1,3 May	50 mLs	2	Barren	1205098	Active Cyanide Leach
63313	63519 Q	30 April, 2, 4 May	50 mLs	3	Barren	1205098	Active Cyanide Leach
63313	63519 R	7,9,11 May	50 mLs	3	Barren	1205246	Active Cyanide Leach
63313	63519 S	8,10 May	50 mLs	2	Barren	1205246	Active Cyanide Leach
63313	63519 T	15,17 May	50 mLs	2	Barren	1205371	Active Cyanide Leach
63313	63519 U	14,16,18 May	50 mLs	3	Barren	1205371	Active Cyanide Leach
63313	63519 V	21,23,25 May	50 mLs	3	Barren	1205498	Active Cyanide Leach
63313	63519 W	22,24 May	50 mLs	2	Barren	1205498	Active Cyanide Leach
63313	63519 X	30 May, 1 June	50 mLs	2	Barren	1206013	Active Cyanide Leach
63313	63519 Y	29,31 May	50 mLs	2	Barren	1206013	Active Cyanide Leach
63313	63519 Z	5,7 June	50 mLs	2	Barren	1206174	Active Cyanide Leach
63313	63519 AA	4,6,8 June	50 mLs	3	Barren	1206174	Active Cyanide Leach
63313	63519 BB	11,13,15 June	50 mLs	3	Barren	1206371	Active Cyanide Leach
63313	63519 CC	12,14 June	50 mLs	2	Barren	1206371	Active Cyanide Leach
63313	63519 DD	19,21 June	50 mLs	2	Barren	1206562	Active Cyanide Leach
63313	63519 EE	18,20,22 June	50 mLs	3	Barren	1206562	Active Cyanide Leach
63313	Final Barren	22 June	--	--	Barren	1206607	Combined barrens submitted for Profile II only. Start Peroxide detoxon 19 July.

Note: Lost by environmental lab

Table 6-38.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63313

		KCA Sample No. 63519 A	KCA Sample No. 63519 B	KCA Sample No. 63519 C	KCA Sample No. 63519 D	KCA Sample No. 63519 E	KCA Sample No. 63519 F	KCA Sample No. 63519 G	KCA Sample No. 63519 H
	WET Lab No.:	1204007	1204007	1204007	1204007	1204007	1204007	1204007	1204257
	Report Date:	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-May-12
Constituent	**Unit**								
pH	pH Units	--	--	--	--	--	--	--	10.29
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	-330
Bicarbonate (HCO3)	mg/L	--	--	--	--	--	--	--	<1.0
Carbonate (CO3)	mg/L	--	--	--	--	--	--	--	270
Hydroxide (OH)	mg/L	--	--	--	--	--	--	--	27
Total Alkalinity	mg/L as CaCO3	--	--	--	--	--	--	--	540
Redox Potential	mV	--	--	--	--	--	--	--	76
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	76
Total Nitrogen	mg/L	--	--	--	--	--	--	--	77
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	1800
Electrical Conductivity	µmhos/cm	--	--	--	--	--	--	--	2900
Chloride	mg/L	24	22	23	23	22	22	23	25
Fluoride	mg/L	1.1	2.3	2.2	2.7	2.5	2.9	2.6	3.1
Sulfate	mg/L	60	250	240	280	280	300	300	350
Nitrate Nitrogen	mg/L	0.43	0.48	0.49	0.50	0.50	0.51	0.52	0.25
Nitrite Nitrogen	mg/L	<0.25	0.40	0.40	0.44	0.41	0.50	0.60	0.66
Aluminum	mg/L	1.2	0.42	0.35	0.38	0.35	0.32	0.29	0.87
Barium	mg/L	0.033	0.010	<0.010	0.010	0.011	0.013	0.015	0.15
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50
Boron	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50
Cadmium	mg/L	0.066	0.019	0.015	0.016	0.018	0.024	0.023	0.029
Calcium	mg/L	16	12	5.9	17	17	24	28	16
Chromium	mg/L	0.013	0.0079	0.0080	0.0065	0.0059	0.0057	0.0060	<0.025
Cobalt	mg/L	0.19	0.29	0.28	0.29	0.28	0.30	0.28	0.25
Copper	mg/L	9.6	7.3	6.6	6.6	7.1	7.6	7.4	7.0
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50
Iron	mg/L	0.076	1.6	1.6	1.9	1.9	2.3	2.2	3.2
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50
Magnesium	mg/L	<0.50	<0.50	0.70	<0.50	<0.50	<0.50	<0.50	<2.5
Manganese	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.078
Molybdenum	mg/L	0.21	0.20	0.20	0.20	0.19	0.20	0.20	0.26
Nickel	mg/L	0.67	0.012	<0.010	<0.010	<0.010	0.029	0.021	<0.050
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5
Potassium	mg/L	17	21	63	13	13	13	13	14
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50
Silver	mg/L	0.12	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
Sodium	mg/L	350	450	430	490	500	570	590	740
Strontium	mg/L	2.8	0.87	0.61	0.88	0.89	0.92	1.1	0.92
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50
Vanadium	mg/L	<0.010	0.14	0.13	0.15	0.14	0.16	0.14	0.21
Zinc	mg/L	13	7.6	6.7	6.6	7.2	8.3	8.0	11
Mercury	mg/L	0.0046	0.0030	0.0033	0.0041	0.0039	0.0045	0.0047	0.0073
Antimony	mg/L	0.021	0.19	0.17	0.25	0.23	0.32	0.29	0.43
Arsenic	mg/L	0.017	1.2	1.2	2.1	1.8	3.2	2.5	4.5
Lead	mg/L	<0.0025	0.0056	0.013	0.0047	0.0048	0.0078	0.0082	0.087
Selenium	mg/L	0.10	0.028	0.026	0.025	0.024	0.025	0.036	<0.10
Thallium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.020
Uranium	mg/L	--	--	--	--	--	--	--	<0.0020
Anions	meq/L	--	--	--	--	--	--	--	18.8
Cations	meq/L	--	--	--	--	--	--	--	30.8
Error	%	--	--	--	--	--	--	--	24

Table 6-39.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63313 (continued)

		KCA Sample No. 63519 L	KCA Sample No. 63519 M	KCA Sample No. 63519 N	KCA Sample No. 63519 O	KCA Sample No. 63519 P	KCA Sample No. 63519 Q	KCA Sample No. 63519 R	KCA Sample No. 63519 S
	WET Lab No.:	1205098	1205098	1205098	1205098	1205098	1205098	1205246	1205246
	Report Date:	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	29-May-12	29-May-12
Constituent	**Unit**								
pH	pH Units	10.41	10.38	10.34	10.38	10.42	10.36	10.29	10.27
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbonate (CO3)	mg/L	290	290	320	320	360	330	360	330
Hydroxide (OH)	mg/L	49	50	42	38	31	35	19	34
Total Alkalinity	mg/L as CaCO3	620	630	650	650	690	650	660	650
Redox Potential	mV	52	84	74	73	68	67	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	3100	3200	3300	3200	3400	3500	--	--
Chloride	mg/L	27	28	27	26	27	28	32	31
Fluoride	mg/L	3.3	3.2	3.4	3.4	3.5	3.4	4.0	4.1
Sulfate	mg/L	310	320	320	300	300	320	350	330
Nitrate Nitrogen	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nitrite Nitrogen	mg/L	0.56	0.60	0.53	0.56	0.61	0.56	0.79	0.75
Aluminum	mg/L	0.18	0.18	0.16	0.13	0.088	0.54	0.27	0.25
Barium	mg/L	<0.010	0.011	0.016	0.010	<0.010	0.13	0.070	0.057
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.10	0.12	0.11	0.12	0.11	0.12	0.14	0.15
Cadmium	mg/L	0.022	0.025	0.023	0.025	0.024	0.023	0.033	0.037
Calcium	mg/L	4.1	4.1	4.2	3.4	4.2	6.3	6.1	5.6
Chromium	mg/L	<0.0050	0.0055	<0.0050	<0.0050	<0.0050	0.0068	0.0054	0.0052
Cobalt	mg/L	0.21	0.25	0.19	0.21	0.21	0.21	0.18	0.18
Copper	mg/L	7.8	7.5	8.1	7.7	7.8	7.6	4.9	5.8
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	2.3	2.6	2.6	2.5	2.8	3.8	3.9	4.0
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.57	<0.50	<0.50
Manganese	mg/L	0.0086	0.067	0.018	0.019	0.017	0.071	0.053	0.041
Molybdenum	mg/L	0.14	0.18	0.14	0.14	0.14	0.15	0.17	0.16
Nickel	mg/L	0.011	0.015	0.014	0.020	0.018	0.020	0.022	0.028
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	16	18	15	16	14	15	14	13
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	690	710	780	720	740	710	800	790
Strontium	mg/L	0.36	0.40	0.28	0.28	0.30	0.27	0.32	0.30
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.15	0.17	0.14	0.16	0.17	0.16	0.16	0.17
Zinc	mg/L	7.4	8.6	7.3	7.6	7.4	7.9	8.7	9.2
Mercury	mg/L	0.0051	0.0055	0.0069	0.0075	0.0050	<0.0050	0.0074	0.0078
Antimony	mg/L	0.49	0.49	0.63	0.56	0.67	0.64	0.72	0.75
Arsenic	mg/L	5.8	5.7	7.5	6.9	8.6	8.1	8.8	10
Lead	mg/L	0.0073	<0.0025	<0.050	<0.050	<0.050	0.14	0.067	0.051
Selenium	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.051	<0.050
Thallium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Anions	meq/L	19.9	20.2	20.7	20.1	21.0	20.7	21.5	21.0
Cations	meq/L	31.2	32.2	35.2	32.5	33.4	32.4	36.1	35.7
Error	%	22	23	26	24	23	22	25	26

Table 6-40.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63313 (continued)

		KCA Sample No. 63519 T	KCA Sample No. 63519 U	KCA Sample No. 63519 V	KCA Sample No. 63519 W	KCA Sample No. 63519 X	KCA Sample No. 63519 Y	KCA Sample No. 63519 Z	KCA Sample No. 63519 AA
	WET Lab No.:	1205371	1205371	1205498	1205498	1206013	1206013	1206174	1206174
	Report Date:	4-Jun-12	4-Jun-12	5-Jun-12	5-Jun-12	6-Jun-12	6-Jun-12	20-Jun-12	20-Jun-12
Constituent	**Unit**								
pH	pH Units	10.34	10.30	10.31	10.39	--	--	10.30	10.25
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	83	<1.0	<1.0	<1.0	--	--	49	42
Carbonate (CO3)	mg/L	370	370	390	390	--	--	440	440
Hydroxide (OH)	mg/L	<1.0	23	9.5	27	--	--	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	680	680	670	730	--	--	760	770
Redox Potential	mV	55	54	--	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	3400	3700	--	--	--	--	--	--
Chloride	mg/L	40	42	40	39	40	40	41	40
Fluoride	mg/L	4.2	3.8	3.7	3.8	4.1	4.0	4.2	4.2
Sulfate	mg/L	310	310	350	350	290	290	290	280
Nitrate Nitrogen	mg/L	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
Nitrite Nitrogen	mg/L	0.75	0.69	--	--	0.91	0.88	1.0	0.83
Aluminum	mg/L	<0.20	0.060	<0.045	<0.045	0.11	0.094	0.28	0.21
Barium	mg/L	0.014	<0.010	0.011	<0.010	0.013	0.010	0.014	0.017
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.15	0.14	0.14	0.14	0.16	0.15	0.16	0.16
Cadmium	mg/L	0.039	0.038	0.037	0.036	0.041	0.043	0.039	0.038
Calcium	mg/L	4.5	4.0	4.3	4.3	3.6	4.1	4.4	4.4
Chromium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt	mg/L	0.26	0.24	0.17	0.16	0.27	0.20	0.24	0.21
Copper	mg/L	7.0	7.1	4.2	5.7	7.7	6.3	7.5	6.2
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	4.6	4.5	3.6	4.4	5.5	4.9	6.0	5.9
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.025	0.024	0.0092	0.018	0.038	0.026	0.030	0.020
Molybdenum	mg/L	0.16	0.15	0.14	0.14	0.14	0.14	0.15	0.16
Nickel	mg/L	0.041	0.040	0.029	0.033	0.060	0.046	0.050	0.045
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	13	12	11	12	10	10	10	10
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	880	840	770	830	780	800	900	860
Strontium	mg/L	0.28	0.27	0.24	0.26	0.20	0.21	0.22	0.20
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.19	0.16	0.17	0.18	0.20	0.18	0.22	0.22
Zinc	mg/L	9.0	8.5	8.7	8.7	9.5	9.2	8.8	8.8
Mercury	mg/L	0.0061	0.0055	0.0049	0.0053	0.0078	0.0078	0.0070	0.0068
Antimony	mg/L	0.94	0.83	0.86	0.93	0.81	0.87	1.1	1.1
Arsenic	mg/L	13	9.9	12	13	12	12	14	14
Lead	mg/L	0.013	0.015	0.027	0.023	<0.020	<0.020	0.035	0.045
Selenium	mg/L	0.063	<0.050	<0.10	<0.10	<0.10	<0.10	0.11	<0.10
Thallium	mg/L	<0.0010	<0.0010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Anions	meq/L	21.5	21.5	22.2	23.2	--	--	22.9	22.5
Cations	meq/L	39.6	37.8	34.6	37.3	--	--	40.5	38.7
Error	%	30	27	22	23	--	--	28	26

Table 6-41.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63313 (continued)

		KCA Sample No. 63519 BB	KCA Sample No. 63519 CC	KCA Sample No. 63519 DD	KCA Sample No. 63519 EE	KCA Sample No. 63519 Final Barren
	WET Lab No.:	1206371	1206371	1206562	1206562	1206607
	Report Date:	25-Jun-12	25-Jun-12	3-Jul-12	3-Jul-12	24-Jul-12
Constituent	**Unit**					
pH	pH Units	10.16	10.18	9.82	9.70	9.48
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	24	110	320	430	650
Carbonate (CO3)	mg/L	490	430	200	200	140
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	840	800	590	690	770
Redox Potential	mV	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	110
Total Nitrogen	mg/L	--	--	--	--	120
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	2200
Electrical Conductivity	µmhos/cm	--	--	--	--	--
Chloride	mg/L	40	40	39	42	42
Fluoride	mg/L	4.4	4.6	4.5	4.5	4.8
Sulfate	mg/L	280	280	270	290	290
Nitrate Nitrogen	mg/L	<1.00	<1.00	--	--	0.87
Nitrite Nitrogen	mg/L	0.78	0.88	--	--	
Aluminum	mg/L	0.37	0.51	1.6	1.4	2.1
Barium	mg/L	0.020	0.019	0.024	0.022	0.10
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.19	0.19	0.18	0.16	0.11
Cadmium	mg/L	0.047	0.047	0.019	0.019	0.0097
Calcium	mg/L	5.9	5.5	7.2	7.2	240
Chromium	mg/L	<0.0050	<0.0050	0.0056	0.0052	0.0081
Cobalt	mg/L	0.25	0.25	0.31	0.33	0.25
Copper	mg/L	6.5	5.6	6.6	6.1	4.7
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	6.4	5.6	7.2	7.6	7.6
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	0.65
Manganese	mg/L	0.087	0.026	0.028	0.026	<0.0050
Molybdenum	mg/L	0.16	0.16	0.15	0.16	0.15
Nickel	mg/L	0.055	0.056	0.059	0.049	0.048
Phosphorus	mg/L	<0.50	<0.50	--	--	0.98
Potassium	mg/L	11	10	8.2	9.0	9.1
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	980	920	810	850	800
Strontium	mg/L	0.21	0.19	0.15	0.16	3.8
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.24	0.24	0.24	0.22	0.24
Zinc	mg/L	11	11	4.7	5.3	2.3
Mercury	mg/L	0.0048	0.0026	0.0045	0.0075	0.0041
Antimony	mg/L	1.1	1.0	1.3	1.3	1.4
Arsenic	mg/L	16	16	19	20	19
Lead	mg/L	0.053	0.062	0.14	0.14	0.32
Selenium	mg/L	<0.10	<0.10	0.10	0.11	0.052
Thallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.0010
Anions	meq/L	23.9	23.3	--	--	22.9
Cations	meq/L	44.1	41.4	--	--	47.9
Error	%	29.7	27.9	--	--	35
Cyanate	mg/L	--	--	--	--	160
Thiocyanate	mg/L	--	--	--	--	55
Ammonia, as Nitrogen	mg/L	--	--	--	--	78

Table 6-42.
Eagle Gold Project
KCA Test No. 63316
Summary of Sampled Solutions

KCA Test No.	KCA Sample No.	Combined Dates	Volume, per Day	Number of Days	Solution Type	WETLAB Job No.	Notes
63316	63520 A	31 Jan - 06 Feb	20 mLs	7	Preg	1204007	Active Cyanide Leach
63316	63520 B	12, 14, 16 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63316	63520 C	13, 15 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63316	63520 D	20, 22 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63316	63520 E	19, 21, 23 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63316	63520 F	26, 28, 30 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63316	63520 G	27, 29 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63316	63520 H	2,4, 6 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63316	63520 I	3,5 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63316	63520 J	10,12 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63316	63520 K	9, 11,13 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63316	63520 L	16, 18,20 April	50 mLs	3	Barren	1205098	Active Cyanide Leach
63316	63520 M	17, 19 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63316	63520 N	24, 26 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63316	63520 O	23, 25 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63316	63520 P	1,3 May	50 mLs	2	Barren	1205098	Active Cyanide Leach
63316	63520 Q	30 April, 2, 4 May	50 mLs	3	Barren	1205098	Active Cyanide Leach
63316	63520 R	7,9,11 May	50 mLs	3	Barren	1205246	Active Cyanide Leach
63316	63520 S	8,10 May	50 mLs	2	Barren	1205246	Active Cyanide Leach
63316	63520 T	15,17 May	50 mLs	2	Barren	1205371	Active Cyanide Leach
63316	63520 U	14,16,18 May	50 mLs	3	Barren	1205371	Active Cyanide Leach
63316	63520 V	21,23,25 May	50 mLs	3	Barren	1205498	Active Cyanide Leach
63316	63520 W	22,24 May	50 mLs	2	Barren	1205498	Active Cyanide Leach
63316	63520 X	30 May, 1 June	50 mLs	2	Barren	1206013	Active Cyanide Leach
63316	63520 Y	29,31 May	50 mLs	2	Barren	1206013	Active Cyanide Leach
63316	63520 Z	5,7 June	50 mLs	2	Barren	1206174	Active Cyanide Leach
63316	63520 AA	4,6,8 June	50 mLs	3	Barren	1206174	Active Cyanide Leach
63316	63520 BB	11,13,15 June	50 mLs	3	Barren	1206371	Active Cyanide Leach
63316	63520 CC	12,14 June	50 mLs	2	Barren	1206371	Active Cyanide Leach
63316	63520 DD	19,21 June	50 mLs	2	Barren	1206562	Active Cyanide Leach
63316	63520 EE	18,20,22 June	50 mLs	3	Barren	1206562	Active Cyanide Leach
63316	Final Barren	22 June	--	--	Barren	1206607	Combined barrens submitted for Profile II only. Start Peroxide detox on 19 July.

Note: Lost by environmental lab

Table 6-43.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63316

		KCA Sample No. 63520 A	KCA Sample No. 63520 B	KCA Sample No. 63520 C	KCA Sample No. 63520 D	KCA Sample No. 63520 E	KCA Sample No. 63520 F	KCA Sample No. 63520 G	KCA Sample No. 63520 H
	WET Lab No.:	1204007	1204007	1204007	1204007	1204007	1204007	1204007	1204257
	Report Date:	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-May-12
Constituent	**Unit**								
pH	pH Units	--	--	--	--	--	--	--	10.32
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	-348
Bicarbonate (HCO3)	mg/L	--	--	--	--	--	--	--	<1.0
Carbonate (CO3)	mg/L	--	--	--	--	--	--	--	280
Hydroxide (OH)	mg/L	--	--	--	--	--	--	--	33
Total Alkalinity	mg/L as CaCO3	--	--	--	--	--	--	--	550
Redox Potential	mV	--	--	--	--	--	--	--	83
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	85
Total Nitrogen	mg/L	--	--	--	--	--	--	--	86
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	1400
Electrical Conductivity	µmhos/cm	--	--	--	--	--	--	--	2700
Chloride	mg/L	22	25	26	26	25	26	29	26
Fluoride	mg/L	1.2	2.2	2.1	2.6	2.5	2.7	2.7	2.9
Sulfate	mg/L	51	230	220	260	260	290	290	300
Nitrate Nitrogen	mg/L	0.41	0.48	0.49	0.51	0.50	0.54	0.51	0.24
Nitrite Nitrogen	mg/L	<0.25	0.36	0.40	0.42	0.43	0.46	0.45	0.51
Aluminum	mg/L	1.2	0.48	0.41	0.45	0.44	0.36	0.38	0.33
Barium	mg/L	0.032	<0.010	<0.010	<0.010	<0.010	0.010	<0.010	0.026
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	mg/L	0.057	0.020	0.014	0.019	0.017	0.018	0.017	0.026
Calcium	mg/L	12	12	19	8.8	7.2	8.8	8.1	6.3
Chromium	mg/L	0.019	0.0072	0.0074	0.0063	0.0060	0.0051	0.0052	<0.0050
Cobalt	mg/L	0.15	0.26	0.26	0.28	0.26	0.26	0.27	0.29
Copper	mg/L	8.2	7.3	6.9	7.6	7.2	7.4	6.6	6.7
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.12	1.4	1.3	1.8	1.7	2.0	2.0	2.4
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	0.82	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.010	<0.0050	0.030
Molybdenum	mg/L	0.18	0.18	0.18	0.19	0.18	0.17	0.18	0.18
Nickel	mg/L	0.56	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Phosphorus	mg/L	<0.50	<0.50	1.2	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	16	15	74	14	14	14	14	17
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	0.098	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	340	440	430	500	500	530	530	580
Strontium	mg/L	2.3	0.78	0.76	0.65	0.70	0.66	0.62	0.47
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	<0.010	0.13	0.12	0.16	0.14	0.14	0.14	0.15
Zinc	mg/L	10	7.3	6.5	7.7	6.9	7.2	6.6	8.4
Mercury	mg/L	0.0047	0.0034	0.0032	0.0040	0.0037	0.0042	0.0038	0.0088
Antimony	mg/L	0.023	0.22	0.21	0.29	0.27	0.31	0.31	0.36
Arsenic	mg/L	0.022	1.4	1.3	2.5	2.1	2.7	2.8	3.8
Lead	mg/L	<0.0025	0.0034	0.0064	0.019	0.0061	0.0030	0.0063	0.038
Selenium	mg/L	0.080	0.024	0.022	0.024	0.025	0.025	0.030	<0.10
Thallium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.020
Uranium	mg/L	--	--	--	--	--	--	--	<0.0020
Anions	meq/L	--	--	--	--	--	--	--	18.4
Cations	meq/L	--	--	--	--	--	--	--	23.1
Error	%	--	--	--	--	--	--	--	11

Table 6-44.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63316 (continued)

		KCA Sample No. 63520 L	KCA Sample No. 63520 M	KCA Sample No. 63520 N	KCA Sample No. 63520 O	KCA Sample No. 63520 P	KCA Sample No. 63520 Q	KCA Sample No. 63520 R	KCA Sample No. 63520 S
	WET Lab No.:	1205098	1205098	1205098	1205098	1205098	1205098	1205246	1205246
	Report Date:	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	29-May-12	29-May-12
Constituent	**Unit**								
pH	pH Units	10.41	10.45	10.47	10.45	10.47	10.44	10.15	10.24
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbonate (CO3)	mg/L	270	270	280	280	310	250	360	190
Hydroxide (OH)	mg/L	39	69	63	20	41	37	30	39
Total Alkalinity	mg/L as CaCO3	560	640	660	530	630	560	690	750
Redox Potential	mV	70	67	62	60	56	65	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	3000	3300	3300	3100	3200	3400	--	--
Chloride	mg/L	29	29	29	29	29	30	27	27
Fluoride	mg/L	3.6	3.5	3.8	3.8	3.9	3.7	3.5	3.5
Sulfate	mg/L	350	350	350	340	330	340	290	300
Nitrate Nitrogen	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nitrite Nitrogen	mg/L	0.59	0.63	0.75	0.68	0.69	0.75	0.65	0.74
Aluminum	mg/L	0.30	0.39	0.21	0.28	0.12	0.090	0.059	0.25
Barium	mg/L	0.012	0.040	0.013	0.029	0.015	0.011	<0.010	0.054
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.12	0.12	0.13	0.13	0.14	0.13	0.12	0.13
Cadmium	mg/L	0.025	0.025	0.030	0.028	0.027	0.025	0.029	0.034
Calcium	mg/L	6.2	7.7	7.0	5.8	6.1	5.4	3.6	4.4
Chromium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0061
Cobalt	mg/L	0.23	0.18	0.19	0.20	0.19	0.22	0.18	0.17
Copper	mg/L	7.9	8.2	7.9	7.3	7.8	6.8	4.9	5.6
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	2.8	3.0	3.1	3.2	3.2	3.5	2.7	3.2
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.026	0.084	0.0082	0.023	0.018	0.013	0.023	0.041
Molybdenum	mg/L	0.17	0.16	0.16	0.15	0.15	0.16	0.14	0.15
Nickel	mg/L	0.023	0.019	0.027	0.032	0.025	0.018	0.022	0.028
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	14	15	15	14	14	13	13	14
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	660	750	760	720	760	740	740	810
Strontium	mg/L	0.50	0.56	0.45	0.40	0.35	0.33	0.24	0.25
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.15	0.14	0.14	0.15	0.16	0.15	0.17	0.18
Zinc	mg/L	8.4	8.3	8.5	8.4	8.3	8.3	7.6	8.9
Mercury	mg/L	<0.0050	<0.0050	0.0090	<0.0050	0.0067	0.0055	0.0061	0.0074
Antimony	mg/L	0.48	0.49	0.59	0.56	0.71	0.59	0.67	0.71
Arsenic	mg/L	6.2	6.0	7.4	7.5	10	8.1	7.7	8.2
Lead	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.021	0.048
Selenium	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.050	<0.050
Thallium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Anions	meq/L	19.6	21.3	21.3	18.6	20.6	18.6	20.7	15.8
Cations	meq/L	30.1	34.1	34.5	32.7	34.4	33.5	33.2	36.5
Error	%	21	23	24	27	25	28	23	39

Table 6-45.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63316 (continued)

		KCA Sample No. 63520 T	KCA Sample No. 63520 U	KCA Sample No. 63520 V	KCA Sample No. 63520 W	KCA Sample No. 63520 X	KCA Sample No. 63520 Y	KCA Sample No. 63520 Z	KCA Sample No. 63520 AA
	WET Lab No.:	1205371	1205371	1205498	1205498	1206013	1206013	1206174	1206174
	Report Date:	4-Jun-12	4-Jun-12	5-Jun-12	5-Jun-12	6-Jun-12	6-Jun-12	20-Jun-12	20-Jun-12
Constituent	**Unit**								
pH	pH Units	10.34	10.28	10.34	10.41	--	--	10.37	10.26
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0
Carbonate (CO3)	mg/L	400	400	460	450	--	--	540	530
Hydroxide (OH)	mg/L	26	22	9.5	44	--	--	14	4.1
Total Alkalinity	mg/L as CaCO3	750	720	800	880	--	--	940	880
Redox Potential	mV	65	58	--	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	3800	4000	--	--	--	--	--	--
Chloride	mg/L	32	29	29	29	30	30	30	30
Fluoride	mg/L	4.1	3.8	3.5	3.5	3.9	3.9	4.0	3.9
Sulfate	mg/L	340	310	350	340	290	290	290	290
Nitrate Nitrogen	mg/L	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
Nitrite Nitrogen	mg/L	0.73	0.61	--	--	0.71	0.75	0.78	0.74
Aluminum	mg/L	0.15	0.11	0.12	0.17	0.25	0.21	0.48	0.43
Barium	mg/L	0.014	0.011	0.011	0.021	0.018	0.015	0.021	0.021
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.13	0.14	0.13	0.12	0.15	0.14	0.16	0.14
Cadmium	mg/L	0.034	0.042	0.039	0.034	0.041	0.042	0.041	0.033
Calcium	mg/L	3.7	3.9	3.4	3.3	3.0	3.4	4.2	4.1
Chromium	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cobalt	mg/L	0.25	0.26	0.15	0.14	0.27	0.19	0.22	0.16
Copper	mg/L	7.5	8.0	5.6	5.1	8.2	6.4	7.5	5.3
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	3.8	3.7	3.3	3.2	4.7	4.2	5.2	4.5
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.016	0.014	0.011	0.047	0.041	0.020	0.071	0.027
Molybdenum	mg/L	0.14	0.15	0.14	0.13	0.14	0.14	0.14	0.14
Nickel	mg/L	0.035	0.047	0.035	0.026	0.039	0.038	0.046	0.029
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	14	13	14	14	13	13	14	13
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	860	810	900	920	860	900	1000	960
Strontium	mg/L	0.25	0.24	0.22	0.23	0.18	0.18	0.19	0.18
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.19	0.18	0.19	0.18	0.21	0.20	0.23	0.22
Zinc	mg/L	8.3	9.6	8.8	8.0	9.6	9.2	9.1	8.1
Mercury	mg/L	0.0057	0.0078	0.0079	0.0087	0.012	0.0075	0.0078	0.0069
Antimony	mg/L	0.86	0.82	0.93	0.89	0.83	0.89	1.1	1.0
Arsenic	mg/L	9.9	9.3	11	11	11	11	13	12
Lead	mg/L	0.016	0.020	0.025	0.034	0.035	0.032	0.062	0.066
Selenium	mg/L	0.054	0.051	<0.10	<0.10	<0.10	<0.10	0.10	<0.10
Thallium	mg/L	<0.0010	<0.0010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Anions	meq/L	23.1	22.1	24.2	25.7	--	--	25.9	25.0
Cations	meq/L	38.7	36.5	40.3	41.1	--	--	44.9	43.0
Error	%	25	25	25	23	--	--	27	26

Table 6-46.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63316 (continued)

		KCA Sample No. 63520 BB	KCA Sample No. 63520 CC	KCA Sample No. 63520 DD	KCA Sample No. 63520 EE	KCA Sample No. 63520 Final Barren
	WET Lab No.:	1206371	1206371	1206562	1206562	1206607
	Report Date:	25-Jun-12	25-Jun-12	3-Jul-12	3-Jul-12	24-Jul-12
Constituent	**Unit**					
pH	pH Units	10.14	10.12	9.85	9.78	9.51
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	180	170	440	530	690
Carbonate (CO3)	mg/L	470	490	230	230	190
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	930	950	740	810	890
Redox Potential	mV	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	140
Total Nitrogen	mg/L	--	--	--	--	140
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	2300
Electrical Conductivity	µmhos/cm	--	--	--	--	--
Chloride	mg/L	31	30	28	28	30
Fluoride	mg/L	4.2	4.1	4.0	4.1	4.4
Sulfate	mg/L	290	280	250	250	270
Nitrate Nitrogen	mg/L	<1.00	<1.00	--	--	0.76
Nitrite Nitrogen	mg/L	0.82	0.74	--	--	
Aluminum	mg/L	0.62	0.67	1.5	1.8	2.0
Barium	mg/L	0.020	0.021	0.025	0.030	0.058
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.17	0.18	0.15	0.14	0.12
Cadmium	mg/L	0.040	0.044	0.012	0.0082	0.0055
Calcium	mg/L	4.9	4.7	6.4	7.2	58
Chromium	mg/L	0.0053	<0.0050	0.0051	0.0051	0.0067
Cobalt	mg/L	0.26	0.26	0.28	0.28	0.27
Copper	mg/L	6.6	7.3	5.1	4.5	3.9
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	5.9	6.1	5.8	6.0	7.0
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.026	0.043	0.027	0.032	0.032
Molybdenum	mg/L	0.15	0.15	0.13	0.13	0.14
Nickel	mg/L	0.043	0.053	0.040	0.036	0.035
Phosphorus	mg/L	<0.50	<0.50	--	--	0.70
Potassium	mg/L	14	14	11	11	12
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.050	<0.0050
Sodium	mg/L	1000	1000	780	810	840
Strontium	mg/L	0.17	0.17	0.14	0.16	0.92
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	0.10
Vanadium	mg/L	0.25	0.26	0.22	0.21	0.23
Zinc	mg/L	9.8	10	3.5	2.6	1.2
Mercury	mg/L	0.0036	0.0034	0.0084	0.0064	0.0041
Antimony	mg/L	1.1	1.1	1.2	1.2	1.4
Arsenic	mg/L	14	14	14	16	17
Lead	mg/L	0.080	0.084	0.15	0.17	0.26
Selenium	mg/L	<0.10	<0.10	0.097	0.093	0.041
Thallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.0010
Anions	meq/L	25.7	26.0	--	--	24.4
Cations	meq/L	45.0	45.0	--	--	40.5
Error	%	27.2	26.8	--	--	25
Cyanate	mg/L	--	--	--	--	220
Thiocyanate	mg/L	--	--	--	--	60
Ammonia, as Nitrogen	mg/L	--	--	--	--	28

Table 6-47.
Eagle Gold Project
KCA Test No. 63319
Summary of Sampled Solutions

KCA Test No.	KCA Sample No.	Combined Dates	Volume, per Day	Number of Days	Solution Type	WETLAB Job No.	Notes
63319	63521 A	31 Jan - 06 Feb	20 mLs	7	Preg	1204007	Active Cyanide Leach
63319	63521 B	12, 14, 16 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63319	63521 C	13, 15 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63319	63521 D	20, 22 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63319	63521 E	19, 21, 23 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63319	63521 F	26, 28, 30 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63319	63521 G	27, 29 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63319	63521 H	2,4, 6 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63319	63521 I	3,5 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63319	63521 J	10,12 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63319	63521 K	9, 11,13 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63319	63521 L	16, 18,20 April	50 mLs	3	Barren	1205098	Active Cyanide Leach
63319	63521 M	17, 19 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63319	63521 N	24, 26 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63319	63521 O	23, 25 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63319	63521 P	1,3 May	50 mLs	2	Barren	1205098	Active Cyanide Leach
63319	63521 Q	30 April, 2, 4 May	50 mLs	3	Barren	1205098	Active Cyanide Leach
63319	63521 R	7,9,11 May	50 mLs	3	Barren	1205246	Active Cyanide Leach
63319	63521 S	8,10 May	50 mLs	2	Barren	1205246	Active Cyanide Leach
63319	63521 T	15,17 May	50 mLs	2	Barren	1205371	Active Cyanide Leach
63319	63521 U	14,16,18 May	50 mLs	3	Barren	1205371	Active Cyanide Leach
63319	63521 V	21,23,25 May	50 mLs	3	Barren	1205498	Active Cyanide Leach
63319	63521 W	22,24 May	50 mLs	2	Barren	1205498	Active Cyanide Leach
63319	63521 X	30 May, 1 June	50 mLs	2	Barren	1206013	Active Cyanide Leach
63319	63521 Y	29,31 May	50 mLs	2	Barren	1206013	Active Cyanide Leach
63319	63521 Z	5,7 June	50 mLs	2	Barren	1206174	Active Cyanide Leach
63319	63521 AA	4,6,8 June	50 mLs	3	Barren	1206174	Active Cyanide Leach
63319	63521 BB	11,13,15 June	50 mLs	3	Barren	1206371	Active Cyanide Leach
63319	63521 CC	12,14 June	50 mLs	2	Barren	1206371	Active Cyanide Leach
63319	63521 DD	19,21 June	50 mLs	2	Barren	1206562	Active Cyanide Leach
63319	63521 EE	18,20,22 June	50 mLs	3	Barren	1206562	Active Cyanide Leach
63319	Final Barren	22 June	--	--	Barren	1206607	Combined barrens submitted for Profile II only.

Note: Lost by environmental lab

Table 6-48.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63319

		KCA Sample No. 63521 A	KCA Sample No. 63521 B	KCA Sample No. 63521 C	KCA Sample No. 63521 D	KCA Sample No. 63521 E	KCA Sample No. 63521 F	KCA Sample No. 63521 G	KCA Sample No. 63521 H
	WET Lab No.:	1204007	1204007	1204007	1204007	1204007	1204007	1204007	1204257
	Report Date:	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-May-12
Constituent	**Unit**								
pH	pH Units	--	--	--	--	--	--	--	10.30
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	-434
Bicarbonate (HCO3)	mg/L	--	--	--	--	--	--	--	<1.0
Carbonate (CO3)	mg/L	--	--	--	--	--	--	--	290
Hydroxide (OH)	mg/L	--	--	--	--	--	--	--	40
Total Alkalinity	mg/L as CaCO3	--	--	--	--	--	--	--	590
Redox Potential	mV	--	--	--	--	--	--	--	85
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	60
Total Nitrogen	mg/L	--	--	--	--	--	--	--	63
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	1200
Electrical Conductivity	µmhos/cm	--	--	--	--	--	--	--	2300
Chloride	mg/L	24	25	25	22	22	22	22	33
Fluoride	mg/L	1.1	1.9	2.0	1.9	1.9	2.3	2.3	2.3
Sulfate	mg/L	30	130	130	160	150	180	180	210
Nitrate Nitrogen	mg/L	0.43	1.4	1.3	1.2	1.2	1.2	1.1	2.3
Nitrite Nitrogen	mg/L	<0.25	0.36	0.39	0.39	0.42	0.40	0.44	0.89
Aluminum	mg/L	0.57	0.23	0.23	0.20	0.19	0.16	0.16	0.18
Barium	mg/L	0.023	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	mg/L	0.038	0.0039	0.0011	0.0020	0.0028	0.0038	0.0033	0.0051
Calcium	mg/L	9.1	4.7	3.0	2.4	2.6	3.2	4.2	2.6
Chromium	mg/L	0.017	0.014	0.013	0.012	0.012	0.011	0.010	0.015
Cobalt	mg/L	0.17	0.16	0.16	0.16	0.16	0.17	0.15	0.17
Copper	mg/L	6.6	3.6	2.0	2.6	3.1	3.0	2.7	3.6
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.042	0.64	0.67	0.82	0.83	1.1	1.0	1.4
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	0.56	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	<0.0050	0.027	<0.0050	0.022	0.063	0.021	0.018	0.035
Molybdenum	mg/L	0.16	0.11	0.11	0.10	0.10	0.10	0.097	0.10
Nickel	mg/L	0.47	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.15
Phosphorus	mg/L	<0.50	<0.50	1.1	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	11	10	55	7.3	7.8	7.3	7.0	8.5
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	0.17	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	300	340	310	360	380	390	410	420
Strontium	mg/L	2.5	0.50	0.27	0.40	0.43	0.42	0.33	0.25
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	<0.010	0.12	0.14	0.14	0.13	0.15	0.15	0.14
Zinc	mg/L	7.9	2.2	1.1	1.4	1.8	2.0	1.8	5.0
Mercury	mg/L	0.0035	0.0022	0.0019	0.0022	0.0024	0.0027	0.0026	0.0056
Antimony	mg/L	0.0087	0.075	0.087	0.12	0.12	0.16	0.17	0.18
Arsenic	mg/L	0.014	0.90	1.3	1.6	1.5	2.5	2.8	3.1
Lead	mg/L	<0.0025	0.0049	0.016	0.0075	0.0055	0.0043	0.0064	0.016
Selenium	mg/L	0.083	0.019	0.019	0.015	<0.025	<0.025	<0.025	<0.10
Thallium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.020
Uranium	mg/L	--	--	--	--	--	--	--	<0.0020
Anions	meq/L	--	--	--	--	--	--	--	17.6
Cations	meq/L	--	--	--	--	--	--	--	14.6
Error	%	--	--	--	--	--	--	--	9.5

Table 6-49.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63319 (continued)

		KCA Sample No. 63521 L	KCA Sample No. 63521 M	KCA Sample No. 63521 N	KCA Sample No. 63521 O	KCA Sample No. 63521 P	KCA Sample No. 63521 Q	KCA Sample No. 63521 R	KCA Sample No. 63521 S
	WET Lab No.:	1205098	1205098	1205098	1205098	1205098	1205098	1205246	1205246
	Report Date:	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	29-May-12	29-May-12
Constituent	**Unit**								
pH	pH Units	10.35	10.45	10.54	10.58	10.58	10.65	10.40	10.37
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbonate (CO3)	mg/L	260	240	280	240	280	310	310	360
Hydroxide (OH)	mg/L	53	69	76	84	65	57	61	20
Total Alkalinity	mg/L as CaCO3	590	600	690	640	660	690	700	660
Redox Potential	mV	70	67	70	72	110	84	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	2600	2600	2600	2700	2500	2800	--	--
Chloride	mg/L	32	30	30	31	31	31	32	270
Fluoride	mg/L	2.7	2.8	2.9	2.7	3.0	3.1	3.1	2.9
Sulfate	mg/L	270	260	250	260	260	260	260	280
Nitrate Nitrogen	mg/L	2.3	2.2	1.9	2.0	1.9	1.9	2.2	3.1
Nitrite Nitrogen	mg/L	0.92	0.87	0.81	0.82	0.85	0.83	0.97	2.2
Aluminum	mg/L	0.16	0.11	0.074	0.080	0.068	<0.045	0.25	0.057
Barium	mg/L	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	0.063	0.012
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	0.20
Cadmium	mg/L	0.0094	0.0085	0.0099	0.0095	0.0095	0.0098	0.013	0.016
Calcium	mg/L	1.9	1.7	1.9	2.2	3.1	2.1	4.0	4.3
Chromium	mg/L	0.010	0.0094	0.0094	0.0083	0.0082	0.0082	0.010	0.012
Cobalt	mg/L	0.17	0.16	0.16	0.15	0.14	0.14	0.14	0.11
Copper	mg/L	5.1	4.1	4.2	4.3	4.2	4.4	3.9	4.4
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	2.0	1.8	2.0	2.0	2.2	2.1	2.8	3.1
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Manganese	mg/L	0.094	0.092	0.18	0.16	0.32	0.17	0.30	0.17
Molybdenum	mg/L	0.10	0.094	0.092	0.087	0.084	0.084	0.084	0.099
Nickel	mg/L	0.020	0.019	0.022	0.019	0.048	0.029	0.064	2.0
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	9.3	8.9	10	9.2	9.0	8.8	8.6	12
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	510	490	570	520	530	540	510	760
Strontium	mg/L	0.24	0.25	0.25	0.23	0.19	0.18	0.16	0.24
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.14	0.14	0.16	0.13	0.14	0.15	0.15	0.14
Zinc	mg/L	5.4	4.9	5.2	5.0	4.9	5.0	5.7	8.7
Mercury	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0051	0.0050
Antimony	mg/L	0.32	0.28	0.32	0.30	0.34	0.38	0.39	0.40
Arsenic	mg/L	5.5	5.2	6.1	5.7	6.7	7.6	6.7	6.1
Lead	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.051	0.013
Selenium	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.050	<0.050
Thallium	mg/L	<0.0010	<0.0010	<0.050	<0.050	<0.050	<0.050	<0.0010	<0.0010
Anions	meq/L	18.6	18.6	20.1	19.5	19.7	20.3	20.6	27.0
Cations	meq/L	23.0	22.0	25.6	23.4	23.9	24.2	23.1	34.2
Error	%	10	8.4	12	9.0	9.5	8.9	5.8	12

Table 6-50.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63319 (continued)

		KCA Sample No. 63521 T	KCA Sample No. 63521 U	KCA Sample No. 63521 V	KCA Sample No. 63521 W	KCA Sample No. 63521 X	KCA Sample No. 63521 Y	KCA Sample No. 63521 Z	KCA Sample No. 63521 AA
	WET Lab No.:	1205371	1205371	1205498	1205498	1206013	1206013	1206174	1206174
	Report Date:	4-Jun-12	4-Jun-12	5-Jun-12	5-Jun-12	6-Jun-12	6-Jun-12	20-Jun-12	20-Jun-12
Constituent	**Unit**								
pH	pH Units	10.47	10.41	10.46	10.48	--	--	10.49	10.41
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0
Carbonate (CO3)	mg/L	340	350	380	350	--	--	450	390
Hydroxide (OH)	mg/L	33	14	50	53	--	--	43	56
Total Alkalinity	mg/L as CaCO3	660	620	780	740	--	--	870	820
Redox Potential	mV	78	84	--	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	3000	2900	--	--	--	--	--	--
Chloride	mg/L	40	38	36	36	41	100	67	63
Fluoride	mg/L	3.3	3.5	3.0	3.0	3.3	3.2	3.1	3.0
Sulfate	mg/L	300	290	320	320	260	260	240	230
Nitrate Nitrogen	mg/L	3.9	3.6	--	--	3.0	2.8	2.9	2.7
Nitrite Nitrogen	mg/L	1.4	1.3	--	--	1.3	1.2	1.3	1.2
Aluminum	mg/L	<0.20	0.14	0.068	0.060	0.079	0.050	0.16	0.11
Barium	mg/L	<0.010	0.028	0.013	0.011	<0.010	<0.010	0.025	0.015
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.10	0.11	<0.10	0.10	0.12	0.11	0.13	0.12
Cadmium	mg/L	0.017	0.018	0.015	0.016	0.018	0.017	0.017	0.018
Calcium	mg/L	14	4.5	3.7	4.6	3.7	5.8	7.4	4.0
Chromium	mg/L	0.010	0.0094	0.0073	0.0082	0.0083	0.0072	0.0094	0.0074
Cobalt	mg/L	0.16	0.14	0.12	0.14	0.15	0.12	0.12	0.11
Copper	mg/L	4.7	4.8	4.4	3.6	4.8	5.6	5.1	5.0
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	3.2	3.4	3.0	2.6	3.0	3.0	3.3	3.0
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.66	<0.50	<0.50
Manganese	mg/L	0.22	0.21	0.35	0.38	0.34	0.39	0.30	0.31
Molybdenum	mg/L	0.10	0.097	0.083	0.089	0.085	0.080	0.079	0.078
Nickel	mg/L	0.27	0.28	0.14	0.14	0.16	0.15	0.21	0.19
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	9.0	8.7	8.6	8.6	7.8	9.4	8.4	8.0
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	580	560	670	680	580	710	720	690
Strontium	mg/L	0.39	0.18	0.20	0.21	0.17	0.20	0.22	0.15
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.16	0.16	0.15	0.15	0.17	0.16	0.18	0.17
Zinc	mg/L	7.3	7.4	6.2	6.6	6.9	6.6	6.6	6.5
Mercury	mg/L	0.0046	0.0043	0.0063	0.0045	0.0048	0.0038	0.0041	0.0030
Antimony	mg/L	0.53	0.55	0.52	0.55	0.47	0.49	0.54	0.52
Arsenic	mg/L	9.0	9.8	9.6	9.7	8.8	9.0	9.3	9.0
Lead	mg/L	0.010	0.029	0.028	<0.020	<0.020	0.010	0.046	0.030
Selenium	mg/L	<0.050	<0.050	<0.10	<0.10	<0.10	<0.050	<0.10	<0.050
Thallium	mg/L	<0.0010	<0.0010	<0.020	<0.020	<0.020	<0.010	<0.020	<0.010
Anions	meq/L	21.1	20.0	23.4	22.6	--	--	24.8	23.2
Cations	meq/L	26.7	25.4	30.1	30.5	--	--	32.5	31.0
Error	%	12	12	12	15	--	--	13	14

Table 6-51.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63319 (continued)

		KCA Sample No. 63521 BB	KCA Sample No. 63521 CC	KCA Sample No. 63521 DD	KCA Sample No. 63521 EE	KCA Sample No. 63521 Final Barren
	WET Lab No.:	1206371	1206371	1206562	1206562	1206607
	Report Date:	25-Jun-12	25-Jun-12	3-Jul-12	3-Jul-12	24-Jul-12
Constituent	**Unit**					
pH	pH Units	10.28	10.27	10.05	9.92	9.91
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	39	7.3	240	310	320
Carbonate (CO3)	mg/L	410	430	270	220	220
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	720	730	650	630	620
Redox Potential	mV	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	70
Total Nitrogen	mg/L	--	--	--	--	180
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	1300
Electrical Conductivity	µmhos/cm	--	--	--	--	--
Chloride	mg/L	60	59	53	55	55
Fluoride	mg/L	3.0	3.0	2.8	3.0	3.1
Sulfate	mg/L	210	210	190	200	340
Nitrate Nitrogen	mg/L	2.4	2.4	--	--	3.3
Nitrite Nitrogen	mg/L	1.1	1.1	--	--	
Aluminum	mg/L	0.18	0.20	0.59	0.85	0.94
Barium	mg/L	0.011	<0.010	0.012	0.032	0.059
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.15	0.14	0.12	0.12	<0.10
Cadmium	mg/L	0.021	0.019	0.011	0.012	0.0099
Calcium	mg/L	3.6	3.3	4.0	4.7	120
Chromium	mg/L	0.0080	0.0080	0.0074	0.0078	0.011
Cobalt	mg/L	0.14	0.13	0.13	0.14	0.13
Copper	mg/L	4.1	4.3	3.6	3.7	3.0
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	2.8	2.9	2.8	3.3	3.4
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	0.57
Manganese	mg/L	0.15	0.13	0.022	0.037	0.027
Molybdenum	mg/L	0.080	0.076	0.062	0.066	0.058
Nickel	mg/L	0.20	0.18	0.18	0.16	0.14
Phosphorus	mg/L	<0.50	<0.50	--	--	0.62
Potassium	mg/L	7.4	7.3	5.8	5.7	6.0
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	690	660	520	530	490
Strontium	mg/L	0.13	0.12	0.10	0.11	2.1
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.22	0.21	0.18	0.20	0.19
Zinc	mg/L	7.4	6.8	4.3	4.8	3.7
Mercury	mg/L	<0.0020	0.0016	0.0047	0.0043	0.0026
Antimony	mg/L	0.54	0.51	0.56	0.59	0.62
Arsenic	mg/L	10	9.9	10	11	12
Lead	mg/L	0.038	0.037	0.071	0.11	0.17
Selenium	mg/L	<0.10	<0.050	0.082	0.078	0.031
Thallium	mg/L	<0.020	<0.010	<0.020	<0.020	<0.0010
Anions	meq/L	20.7	20.8	--	--	22.1
Cations	meq/L	30.9	29.6	--	--	28.0
Error	%	19.8	17.4	--	--	12
Cyanate	mg/L	--	--	--	--	120
Thiocyanate	mg/L	--	--	--	--	37
Ammonia, as Nitrogen	mg/L	--	--	--	--	60

Table 6-52.
Eagle Gold Project
KCA Test No. 63322
Summary of Sampled Solutions

KCA Test No.	KCA Sample No.	Combined Dates	Volume, per Day	Number of Days	Solution Type	WETLAB Job No.	Notes
63322	63522 A	31 Jan - 06 Feb	20 mLs	7	Preg	1204007	Active Cyanide Leach
63322	63522 B	12, 14, 16 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63322	63522 C	13, 15 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63322	63522 D	20, 22 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63322	63522 E	19, 21, 23 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63322	63522 F	26, 28, 30 Mar	50 mLs	3	Barren	1204007	Active Cyanide Leach
63322	63522 G	27, 29 Mar	50 mLs	2	Barren	1204007	Active Cyanide Leach
63322	63522 H	2,4, 6 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63322	63522 I	3,5 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63322	63522 J	10,12 April	50 mLs	2	Barren	1204257	Active Cyanide Leach
63322	63522 K	9, 11,13 April	50 mLs	3	Barren	1204257	Active Cyanide Leach
63322	63522 L	16, 18,20 April	50 mLs	3	Barren	1205098	Active Cyanide Leach
63322	63522 M	17, 19 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63322	63522 N	24, 26 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63322	63522 O	23, 25 April	50 mLs	2	Barren	1205098	Active Cyanide Leach
63322	63522 P	1,3 May	50 mLs	2	Barren	1205098	Active Cyanide Leach
63322	63522 Q	30 April, 2, 4 May	50 mLs	3	Barren	1205098	Active Cyanide Leach
63322	63522 R	7,9,11 May	50 mLs	3	Barren	1205246	Active Cyanide Leach
63322	63522 S	8,10 May	50 mLs	2	Barren	1205246	Active Cyanide Leach
63322	63522 T	15,17 May	50 mLs	2	Barren	1205371	Active Cyanide Leach
63322	63522 U	14,16,18 May	50 mLs	3	Barren	1205371	Active Cyanide Leach
63322	63522 V	21,23,25 May	50 mLs	3	Barren	1205498	Active Cyanide Leach
63322	63522 W	22,24 May	50 mLs	2	Barren	1205498	Active Cyanide Leach
63322	63522 X	30 May, 1 June	50 mLs	2	Barren	1206013	Active Cyanide Leach
63322	63522 Y	29,31 May	50 mLs	2	Barren	1206013	Active Cyanide Leach
63322	63522 Z	5,7 June	50 mLs	2	Barren	1206174	Active Cyanide Leach
63322	63522 AA	4,6,8 June	50 mLs	3	Barren	1206174	Active Cyanide Leach
63322	63522 BB	11,13,15 June	50 mLs	3	Barren	1206371	Active Cyanide Leach
63322	63522 CC	12,14 June	50 mLs	2	Barren	1206371	Active Cyanide Leach
63322	63522 DD	19,21 June	50 mLs	2	Barren	1206562	Active Cyanide Leach
63322	63522 EE	18,20,22 June	50 mLs	3	Barren	1206562	Active Cyanide Leach
63322	Final Barren	22 June	--	--	Barren	1206607	Combined barrens submitted for Profile II only. Start Peroxide detox on 19 July.

Note: Lost by environmental lab

Table 6-53.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63322

		KCA Sample No. 63522 A	KCA Sample No. 63522 B	KCA Sample No. 63522 C	KCA Sample No. 63522 D	KCA Sample No. 63522 E	KCA Sample No. 63522 F	KCA Sample No. 63522 G	KCA Sample No. 63522 I
	WET Lab No.:	1204007	1204007	1204007	1204007	1204007	1204007	1204007	1204257
	Report Date:	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-Aug-12	4-May-12
Constituent	**Unit**								
pH	pH Units	--	--	--	--	--	--	--	10.12
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	-404
Bicarbonate (HCO3)	mg/L	--	--	--	--	--	--	--	<1.0
Carbonate (CO3)	mg/L	--	--	--	--	--	--	--	280
Hydroxide (OH)	mg/L	--	--	--	--	--	--	--	25
Total Alkalinity	mg/L as CaCO3	--	--	--	--	--	--	--	540
Redox Potential	mV	--	--	--	--	--	--	--	78
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	42
Total Nitrogen	mg/L	--	--	--	--	--	--	--	43
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	1700
Electrical Conductivity	µmhos/cm	--	--	--	--	--	--	--	4000
Chloride	mg/L	25	38	36	37	31	25	28	280
Fluoride	mg/L	1.1	2.1	1.6	2.3	2.0	2.0	2.1	2.3
Sulfate	mg/L	32	160	150	180	140	140	160	180
Nitrate Nitrogen	mg/L	0.48	0.52	0.50	0.52	0.49	0.45	0.48	0.30
Nitrite Nitrogen	mg/L	0.26	1.7	0.96	1.5	1.3	0.96	1.1	1.3
Aluminum	mg/L	0.60	0.27	0.20	0.21	0.20	0.19	0.24	0.44
Barium	mg/L	0.018	<0.010	<0.010	<0.010	<0.010	<0.010	0.012	0.050
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.84
Cadmium	mg/L	0.034	0.0062	0.0017	0.0041	0.0035	0.0048	0.0058	0.0061
Calcium	mg/L	7.1	1.6	5.1	2.2	1.7	2.1	4.1	36
Chromium	mg/L	0.020	0.022	0.020	0.018	0.014	0.010	0.012	0.012
Cobalt	mg/L	0.18	0.24	0.21	0.22	0.17	0.13	0.15	0.093
Copper	mg/L	6.6	5.4	3.9	4.1	4.5	3.5	3.5	2.8
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	0.024	0.77	0.70	1.1	0.95	1.2	1.4	1.7
Lithium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1.6
Magnesium	mg/L	<0.50	<0.50	0.63	<0.50	<0.50	<0.50	<0.50	170
Manganese	mg/L	<0.0050	0.0085	0.045	0.0072	0.15	0.21	0.047	0.11
Molybdenum	mg/L	0.16	0.17	0.16	0.16	0.12	0.090	0.10	0.092
Nickel	mg/L	0.44	0.011	<0.010	<0.010	<0.010	<0.010	<0.010	0.015
Phosphorus	mg/L	<0.50	<0.50	0.66	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	11	9.6	34	7.5	8.3	8.6	7.9	9.8
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	0.18	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	290	420	390	410	480	460	420	440
Strontium	mg/L	1.8	0.30	0.47	0.35	0.41	0.39	0.31	0.80
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	<0.010	0.13	0.12	0.15	0.12	0.12	0.13	0.19
Zinc	mg/L	7.2	5.0	2.5	3.8	3.2	3.2	3.9	3.3
Mercury	mg/L	0.0033	0.0032	0.0032	0.0033	0.0026	0.0026	0.0027	0.0061
Antimony	mg/L	0.0070	0.093	0.080	0.13	0.12	0.14	0.15	0.19
Arsenic	mg/L	0.0086	1.5	1.1	2.2	1.7	2.0	2.6	3.6
Lead	mg/L	<0.0025	0.0032	0.0063	0.0061	0.0099	0.0054	0.013	0.088
Selenium	mg/L	0.063	<0.025	<0.025	<0.025	<0.025	0.010	0.015	<0.10
Thallium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.020
Uranium	mg/L	--	--	--	--	--	--	--	<0.0020
Anions	meq/L	--	--	--	--	--	--	--	22.6
Cations	meq/L	--	--	--	--	--	--	--	35.5
Error	%	--	--	--	--	--	--	--	22

Table 6-54.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63322 (continued)

		KCA Sample No. 63522 L	KCA Sample No. 63522 M	KCA Sample No. 63522 N	KCA Sample No. 63522 O	KCA Sample No. 63522 P	KCA Sample No. 63522 Q	KCA Sample No. 63522 R	KCA Sample No. 63522 S
	WET Lab No.:	1205098	1205098	1205098	1205098	1205098	1205098	1205246	1205246
	Report Date:	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	25-May-12	29-May-12	29-May-12
Constituent	**Unit**								
pH	pH Units	10.22	10.27	10.41	10.39	10.59	10.54	10.38	10.44
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbonate (CO3)	mg/L	190	160	200	220	240	250	130	250
Hydroxide (OH)	mg/L	23	44	48	34	61	31	54	64
Total Alkalinity	mg/L as CaCO3	390	390	470	470	570	500	590	600
Redox Potential	mV	75	64	76	79	84	99	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	3800	3800	3900	3900	4100	4200	--	--
Chloride	mg/L	590	600	550	560	530	550	270	480
Fluoride	mg/L	1.8	1.8	2.0	2.0	2.2	2.2	2.7	2.4
Sulfate	mg/L	220	220	240	240	250	260	270	240
Nitrate Nitrogen	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0
Nitrite Nitrogen	mg/L	1.9	1.4	2.4	2.7	2.6	2.6	2.0	2.3
Aluminum	mg/L	<0.045	0.083	0.080	<0.045	0.14	0.36	<0.045	<0.045
Barium	mg/L	0.014	0.021	0.024	0.010	0.026	0.090	<0.010	0.013
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.21	0.21	0.22	0.22	0.21	0.22	0.17	0.25
Cadmium	mg/L	0.0070	0.0077	0.0096	0.0098	0.011	0.011	0.015	0.015
Calcium	mg/L	5.4	5.8	7.6	5.8	50	10	5.0	5.6
Chromium	mg/L	0.0078	0.0065	0.0068	0.0075	0.0070	0.0085	0.0088	0.0067
Cobalt	mg/L	0.12	0.12	0.12	0.11	0.10	0.12	0.13	0.12
Copper	mg/L	3.5	3.6	4.3	3.5	3.8	4.4	4.1	3.8
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	2.0	2.0	2.4	2.0	2.7	3.7	2.9	3.0
Lithium	mg/L	0.29	0.29	0.24	0.24	0.19	0.19	<0.10	0.14
Magnesium	mg/L	0.83	0.74	0.69	0.81	1.0	0.72	<0.50	<0.50
Manganese	mg/L	0.047	0.054	0.20	0.11	0.27	0.22	0.16	0.14
Molybdenum	mg/L	0.081	0.081	0.084	0.088	0.080	0.085	0.092	0.084
Nickel	mg/L	0.18	0.016	0.049	0.094	0.041	0.040	0.22	0.047
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	14	15	16	16	16	16	11	13
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	750	790	870	810	890	840	700	780
Strontium	mg/L	0.52	0.66	0.60	0.50	1.3	0.52	0.27	0.33
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.069	0.066	0.072	0.077	0.086	0.082	0.13	0.10
Zinc	mg/L	5.0	4.0	7.6	8.1	7.4	7.5	7.4	8.3
Mercury	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0051	0.0052
Antimony	mg/L	0.21	0.21	0.26	0.23	0.27	0.27	0.38	0.33
Arsenic	mg/L	2.7	2.6	3.3	3.1	4.2	3.8	6.0	4.4
Lead	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.091	0.011	0.0060
Selenium	mg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.050	<0.050
Thallium	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.0010	<0.0010
Anions	meq/L	29.0	29.5	30.1	30.2	31.9	31.2	21.0	30.8
Cations	meq/L	33.7	35.5	39.2	36.5	42.2	38.1	31.5	35.1
Error	%	7.5	9.1	13	9.4	14	10	20	6.5

Table 6-55.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63322 (continued)

Constituent	Unit	KCA Sample No. 63522 T	KCA Sample No. 63522 U	KCA Sample No. 63522 V	KCA Sample No. 63522 W	KCA Sample No. 63522 X	KCA Sample No. 63522 Y	KCA Sample No. 63522 Z	KCA Sample No. 63522 AA
	WET Lab No.:	1205371	1205371	1205498	1205498	1206013	1206013	1206174	1206174
	Report Date:	4-Jun-12	4-Jun-12	5-Jun-12	5-Jun-12	6-Jun-12	6-Jun-12	20-Jun-12	20-Jun-12
Constituent	**Unit**								
pH	pH Units	10.42	10.53	10.52	10.49	--	--	10.53	10.42
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	<1.0	<1.0	<1.0	<1.0	--	--	<1.0	<1.0
Carbonate (CO3)	mg/L	310	320	260	330	--	--	410	400
Hydroxide (OH)	mg/L	27	33	60	46	--	--	36	26
Total Alkalinity	mg/L as CaCO3	590	630	610	680	--	--	790	740
Redox Potential	mV	76	87	--	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	--	--	--
Electrical Conductivity	µmhos/cm	3900	4100	--	--	--	--	--	--
Chloride	mg/L	450	450	490	490	450	440	400	380
Fluoride	mg/L	2.5	2.4	2.4	2.3	2.8	2.7	2.6	2.6
Sulfate	mg/L	240	230	270	270	250	250	230	220
Nitrate Nitrogen	mg/L	<1.0	<1.0	--	--	<1.0	<1.0	<1.0	<1.0
Nitrite Nitrogen	mg/L	2.2	2.3	--	--	2.6	2.5	2.3	2.2
Aluminum	mg/L	0.18	<0.20	<0.045	<0.045	<0.045	<0.45	0.18	0.072
Barium	mg/L	0.035	<0.010	0.013	0.010	<0.010	0.011	0.023	0.013
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.25	0.25	0.26	0.26	0.31	0.28	0.30	0.33
Cadmium	mg/L	0.016	0.016	0.016	0.016	0.020	0.019	0.019	0.019
Calcium	mg/L	38	4.8	4.1	4.6	3.1	4.6	38	4.3
Chromium	mg/L	0.0072	0.0057	0.0056	0.0061	0.0072	0.0051	0.0071	0.0062
Cobalt	mg/L	0.12	0.12	0.12	0.13	0.15	0.13	0.11	0.12
Copper	mg/L	3.6	3.8	3.7	4.3	4.6	4.3	3.8	4.2
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	3.4	3.2	3.4	3.7	3.8	4.1	3.8	4.0
Lithium	mg/L	0.13	0.13	0.10	0.11	0.10	0.11	<0.10	<0.10
Magnesium	mg/L	0.84	<0.50	<0.50	<0.50	<0.50	<0.50	0.82	<0.50
Manganese	mg/L	0.22	0.17	0.091	0.18	0.16	0.12	0.22	0.12
Molybdenum	mg/L	0.079	0.078	0.077	0.080	0.088	0.077	0.074	0.078
Nickel	mg/L	0.048	0.046	0.045	0.042	0.049	0.051	0.063	0.062
Phosphorus	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Potassium	mg/L	12	12	11	12	11	11	10	9.9
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	830	840	820	890	840	880	920	850
Strontium	mg/L	0.83	0.26	0.23	0.27	0.21	0.21	0.76	0.20
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.12	0.10	0.12	0.12	0.14	0.13	0.15	0.16
Zinc	mg/L	8.4	8.4	8.3	8.4	10	9.1	8.8	8.8
Mercury	mg/L	0.0047	0.0042	0.0052	0.0059	0.0046	0.0038	0.0045	0.0033
Antimony	mg/L	0.39	0.38	0.41	0.43	0.42	0.44	0.50	0.48
Arsenic	mg/L	5.9	5.4	6.4	6.4	6.7	7.3	7.9	7.6
Lead	mg/L	0.032	0.019	0.013	0.011	<0.020	0.016	0.037	0.023
Selenium	mg/L	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.10	<0.050
Thallium	mg/L	<0.0010	<0.0010	<0.010	<0.010	<0.020	<0.010	<0.020	<0.010
Anions	meq/L	29.7	30.2	31.8	33.3	--	--	32.0	30.3
Cations	meq/L	39.0	37.6	36.7	39.8	--	--	42.9	38.1
Error	%	13	11	7.2	9.0	--	--	15	11

Table 6-56.
Eagle Gold Project
Profile II Analyses - KCA Test No. 63322 (continued)

Constituent	Unit	KCA Sample No. 63522 BB	KCA Sample No. 63522 CC	KCA Sample No. 63522 DD	KCA Sample No. 63522 EE	KCA Sample No. 63522 Final Barren
	WET Lab No.:	1206371	1206371	1206562	1206562	1206607
	Report Date:	25-Jun-12	25-Jun-12	3-Jul-12	3-Jul-12	24-Jul-12
Constituent	**Unit**					
pH	pH Units	10.28	10.19	9.95	9.88	9.81
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	170	210	290	330	330
Carbonate (CO3)	mg/L	390	350	180	190	180
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	780	750	530	590	560
Redox Potential	mV	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	78
Total Nitrogen	mg/L	--	--	--	--	81
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	2000
Electrical Conductivity	µmhos/cm	--	--	--	--	--
Chloride	mg/L	400	430	390	390	390
Fluoride	mg/L	2.7	2.9	2.7	2.6	2.8
Sulfate	mg/L	240	250	240	230	260
Nitrate Nitrogen	mg/L	<1.00	<1.00	--	--	2.6
Nitrite Nitrogen	mg/L	2.9	3.4	--	--	
Aluminum	mg/L	0.065	0.086	0.33	0.24	0.71
Barium	mg/L	<0.010	<0.010	0.011	<0.010	0.047
Beryllium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Boron	mg/L	0.36	0.36	0.32	0.31	0.24
Cadmium	mg/L	0.021	0.021	0.0064	0.0048	0.0082
Calcium	mg/L	4.1	5.5	5.3	4.4	100
Chromium	mg/L	0.0079	0.0097	0.0087	0.0086	0.0095
Cobalt	mg/L	0.14	0.15	0.16	0.16	0.13
Copper	mg/L	4.4	3.7	3.5	3.3	2.2
Gallium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Iron	mg/L	4.3	4.6	4.3	4.3	4.7
Lithium	mg/L	<0.10	0.10	<0.10	<0.10	<0.10
Magnesium	mg/L	<0.50	<0.50	<0.50	<0.50	1.7
Manganese	mg/L	0.054	0.050	0.020	0.018	0.23
Molybdenum	mg/L	0.092	0.099	0.083	0.086	0.080
Nickel	mg/L	0.10	0.12	0.076	0.074	0.056
Phosphorus	mg/L	<0.50	<0.50	--	--	0.57
Potassium	mg/L	10	11	8.3	8.2	8.6
Scandium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium	mg/L	940	1000	770	760	750
Strontium	mg/L	0.15	0.20	0.15	0.14	1.8
Tin	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Titanium	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	mg/L	0.18	0.20	0.17	0.17	0.16
Zinc	mg/L	12	13	7.5	7.0	4.5
Mercury	mg/L	0.0020	0.0022	0.0081	0.0032	0.0032
Antimony	mg/L	0.51	0.55	0.57	0.58	0.63
Arsenic	mg/L	9.5	9.8	10	10	11
Lead	mg/L	0.030	0.030	0.049	0.050	0.082
Selenium	mg/L	<0.050	<0.050	0.061	0.059	0.023
Thallium	mg/L	<0.010	<0.010	<0.010	<0.010	<0.0010
Anions	meq/L	32.2	32.6	--	--	28.2
Cations	meq/L	42.1	44.8	--	--	38.5
Error	%	13.3	15.8	--	--	16
Cyanate	mg/L	--	--	--	--	160
Thiocyanate	mg/L	--	--	--	--	42
Ammonia, as Nitrogen	mg/L	--	--	--	--	74

6.4 Detoxification Test Work

Two (2) types of detoxification test work were conducted on the tailings material from the column leach tests: bacterial detox and hydrogen peroxide detox.

Bacterial detoxification was conducted on the tailings material from four (4) of the column leach tests (KCA Test Nos. 63301, 63304, 63307 and 63319).

Hydrogen peroxide detoxification was conducted on the tailings material from the remaining four (4) column leach tests (KCA Test Nos. 63310, 63313, 63316 and 63322).

A summary of the detoxification tests is presented in Table 6-57.

Table 6-57.
Eagle Gold Project
Summary of Detoxification Tests

KCA Sample No.	KCA Test No.	Description	Target p80 Size, mm	Test Temp., °C	Detox Type
48158	63301	Env. Comp. (Column Leach Tailings)	6.3	22	Bacterial
48158	63304	Env. Comp. (Column Leach Tailings)	6.3	22	Bacterial
48158	63307	Env. Comp. (Column Leach Tailings)	6.3	22	Bacterial
48158	63310	Env. Comp. (Column Leach Tailings)	6.3	22	Peroxide
48158	63313	Env. Comp. (Column Leach Tailings)	6.3	22	Peroxide
48158	63316	Env. Comp. (Column Leach Tailings)	6.3	22	Peroxide
48158	63319	Env. Comp. (Column Leach Tailings)	6.3	3	Bacterial
48158	63322	Env. Comp. (Column Leach Tailings)	6.3	3	Peroxide

6.4.1 Bacterial Detoxification

Following the leaching period, bacterial detoxification was conducted on the tailings material from four (4) of the column leach tests (KCA Test Nos. 63301, 63304, 63307 and 63319). Detoxification was conducted in two (2) phases, solution detoxification (Phase I) followed by continuous solution cycling (Phase II). Detoxification was conducted utilizing bacteria culture in the form of a sugar-syrup mixture (GWS-BCY3) supplied to KCA by Jim Harrington at Alexco Environmental Group.

For Phase I, 24.25 grams of bacteria syrup were added to detoxify the final barren solution of each of the four (4) columns. The detoxified barren solution (detoxification solution) was then mixed continuously in an agitated mixer, and a sample of the detoxification solution was submitted to WETLAB for cyanate, thiocyanate and nitrogen analyses. The columns were then restarted with the detoxification solution (Phase I).

During the detoxification period, the solution was sampled periodically and analyzed for pH, free NaCN and WAD cyanide.

After seventeen (17) days of detoxification, the detoxification solution was sampled and submitted to WETLAB for analysis of selected metals.

The Phase I detoxification procedure was continued until a WAD cyanide value of less than 0.2 milligrams WAD cyanide per liter of solution was obtained. The final detoxification solution was then sampled and submitted to WETLAB for a Profile II analysis. At the end of the detoxification phase, the column was placed on continuous cycle (Phase II).

For Phase II continuous cycling, solutions were sampled periodically and analyzed for pH, free NaCN and WAD cyanide.

On 7 March 2013, the KCA laboratory facility received 195 grams of nutrient solution from the client. For KCA Test Nos. 63304, 63307 and 63319, a 65 gram portion of the received nutrient solution was added into the top of each column along with 100 milliliters of cycling solution. After seven (7) days, the detoxification solution from each test utilizing additional nutrient solution was sampled and submitted to WETLAB for WAD cyanide analysis.

For KCA Test No. 63301, a solution sample was taken at the end of the continuous cycle phase and submitted to WETLAB for a Profile II Analysis. The column tailings material was then utilized for humidity cell test work.

For KCA Test Nos. 63304, 63307 and 63319, the columns were allowed to drain down for five (5) days at the end of the continuous cycle phase. A solution sample was taken from each column at the end of the drain down period, and the samples were combined and blended into a single composite solution (KCA Sample No. 65979). A 4 liter portion of the composite solution was submitted to Tetra Tech for solution analyses; the remaining composite solution was submitted to WETLAB for analyses. The solution submitted to Tetra Tech was analyzed and then submitted to WETLAB for additional analyses. The analyses conducted by Tetra Tech are not included in this report.

The composite solution generation information is presented in Table 6-58.

Table 6-58.
Eagle Gold Project
Composite Solution Generation

5 Day Drain Down, Solution Composite Generation		
KCA Sample No.	Solution to Composite, L	Date
63304	1.62	20-Mar-13
63307	1.34	20-Mar-13
63319	1.36	20-Mar-13
Total, L:	4.32	20-Mar-13

A summary of the sampled solutions from each column is presented in Table 6-59.

The bacterial detoxification test work for each column test is presented in Tables 6-60 through 6-63.

The individual results of the Profile II analyses are presented in Tables 6-64 through 6-70.

The composite solution analyses conducted by WETLAB are presented in Table 6-71.

The received WETLAB reports are presented in Appendix B (external volume).

Table 6-59.
Eagle Gold Project
Bacterial Detoxification
Summary of Sampled Solutions

KCA Test No.	Solution Description	Sample Date	WETLAB Job No.	Notes
63301	Start of Bacteria Detox	13-Jul-12	1207283	Added GWS-BCY3, mixed and submitted for CNO, SCN & Nitrogen.
63301	17 days of bacteria	30-Jul-12	1207631	17 Days into Bacterial detox. Ran Selected metals.
63301	End 1st phase Bacteria	23-Oct-12	1210487	End of 1st phase bacteria detox. Placed on continuous cycle. Profile ll.
63301	End 2nd phase Bacteria	3-Dec-12	1212012	End continuous cycle. Profile ll Suite. Start HCT.
63304	Start of Bacteria Detox	13-Jul-12	1207283	Added GWS-BCY3, mixed and submitted for CNO, SCN & Nitrogen.
63304	17 days of bacteria	30-Jul-12	1207631	17 Days into Bacterial detox. Ran Selected metals.
63304	End 1st phase Bacteria	23-Oct-12	1210487	End of 1st phase bacteria detox. Placed on continuous cycle. Profile ll.
63304	Cycling (2nd Phase)	3-Dec-12	1212039	Profile ll Suite.
63304	Cycling (2nd Phase)	17-Jan-13	1301278	Profile ll Suite.
63304	Cycling (2nd Phase)	22-Jan-13	SEM: 125850	WAD Cyanide
63304	Cycling (2nd Phase)	31-Jan-13	1301467	WAD Cyanide
63304	Cycling (2nd Phase)	7-Feb-13	1302111	WAD Cyanide
63304	Cycling (2nd Phase)	13-Feb-13	1302210	Total and WAD Cyanide (4X - 250 mL), 65963 A-D
63304	Cycling (2nd Phase)	14-Mar-13	1303275	WAD Cyanide
63304	Cycling (2nd Phase)	20-Mar-13	1303383	5 day DD, 1.62 liters to comp. w/ DD soln. from 63307 and 19. Profile II.
63307	Start of Bacteria Detox	13-Jul-12	1207283	Added GWS-BCY3, mixed and submitted for CNO, SCN & Nitrogen.
63307	17 days of bacteria	30-Jul-12	1207631	17 Days into Bacterial detox. Ran Selected metals.
63307	End 1st phase Bacteria	23-Oct-12	1210487	End of 1st phase bacteria detox. Placed on continuous cycle. Profile ll.
63307	Cycling (2nd Phase)	3-Dec-12	1212039	Profile ll Suite.
63307	Cycling (2nd Phase)	17-Jan-13	1301278	Profile ll Suite.
63307	Cycling (2nd Phase)	22-Jan-13	SEM: 125850	WAD Cyanide
63307	Cycling (2nd Phase)	31-Jan-13	1301467	WAD Cyanide
63307	Cycling (2nd Phase)	7-Feb-13	1302111	WAD Cyanide
63307	Cycling (2nd Phase)	14-Mar-13	1303275	WAD Cyanide
63307	Cycling (2nd Phase)	20-Mar-13	1303383	5 day DD, 1.34 liters to comp. w/ DD soln. from 63304 and 19. Profile II.
63319	Start of Bacteria Detox	13-Jul-12	1207283	Added GWS-BCY3, mixed and submitted for CNO, SCN & Nitrogen.
63319	17 days of bacteria	30-Jul-12	1207631	17 Days into Bacterial detox. Ran Selected metals.
63319	End 1st phase Bacteria	23-Oct-12	1210487	End of 1st phase bacteria detox. Placed on continuous cycle. Profile ll.
63319	Cycling (2nd Phase)	3-Dec-12	1212039	Profile ll Suite.
63319	Cycling (2nd Phase)	17-Jan-13	1301278	Profile ll Suite.
63319	Cycling (2nd Phase)	22-Jan-13	SEM: 125850	WAD Cyanide
63319	Cycling (2nd Phase)	31-Jan-13	1301467	WAD Cyanide
63319	Cycling (2nd Phase)	7-Feb-13	1302111	WAD Cyanide
63319	Cycling (2nd Phase)	14-Mar-13	1303275	WAD Cyanide
63319	Cycling (2nd Phase)	20-Mar-13	1303383	5 day DD, 1.36 liters to comp. w/ DD soln. from 63304 and 07. Profile II.

Table 6-60.
Eagle Gold Project
Bacterial Detoxification
KCA Test No. 63301

Date	pH	Culture* Added, grams	Free NaCN, gpL	Total CN, mg/L	WAD CN, mg/L	Makeup Water Added, mLs	Detox Days	Effluent Volume, L
13-Jul	9.9	24.25	0.03	46.93	12.37	0	0	Start
16-Jul	9.8	0	0.07	--	--	0	3	1.59
17-Jul	9.5	0	0.06	--	--	0	4	0.97
18-Jul	9.5	0	0.03	--	--	0	5	0.80
19-Jul	9.6	0	0.03	--	--	0	6	0.82
20-Jul	9.5	0	0.03	--	--	0	7	0.58
23-Jul	9.4	0	0.02	--	--	0	10	3.13
24-Jul	9.5	0	0.02	--	--	0	11	0.51
25-Jul	9.8	0	0.02	--	--	0	12	0.83
26-Jul	9.4	0	0.01	--	--	0	13	0.75
27-Jul	9.4	0	0.01	--	--	0	14	0.85
30-Jul	9.4	0	0.01	--	2.66	0	17	2.76
31-Jul	9.2	0	0.01	--	--	0	18	0.60
1-Aug	9.0	0	0.01	--	--	0	19	0.78
2-Aug	9.0	0	0.01	--	--	0	20	0.88
3-Aug	9.1	0	0.01	--	--	0	21	0.75
6-Aug	9.2	0	0.01	--	--	0	24	2.70
7-Aug	9.2	0	0.01	--	--	0	25	0.75
8-Aug	9.1	0	0.01	--	--	0	26	0.79
9-Aug	9.0	0	0.01	--	--	0	27	0.62
10-Aug	9.0	0	0.01	--	--	0	28	1.13
13-Aug	9.1	0	0.01	--	--	0	31	1.99
14-Aug	9.0	0	0.01	--	--	0	32	1.05
15-Aug	9.0	0	0.01	--	--	0	33	0.90
16-Aug	9.1	0	0.01	--	--	0	34	0.81
17-Aug	9.0	0	0.01	--	--	0	35	0.87
20-Aug	9.1	0	0.01	--	0.88	0	38	2.29
21-Aug	9.1	0	0.01	--	--	0	39	1.14
22-Aug	9.0	0	0.01	--	--	0	40	0.68
23-Aug	9.0	0	0.01	--	--	0	41	1.15
24-Aug	9.0	0	0.01	--	--	0	42	0.91
27-Aug	9.1	0	0.01	--	0.57	0	45	2.44
28-Aug	9.1	0	0.01	--	--	0	46	0.43
29-Aug	8.9	0	0.01	--	--	0	47	0.77
31-Aug	9.1	0	0.01	--	--	0	49	1.19
4-Sep	8.8	0	0.01	--	--	0	53	1.74
6-Sep	9.0	0	0.01	--	0.57	0	55	0.94
10-Sep	9.1	0	0.01	--	--	0	59	1.67
12-Sep	9.2	0	0.01	--	0.57	0	61	0.66
14-Sep	8.9	0	0.01	--	--	0	63	0.77
17-Sep	9.0	0	0.01	--	0.48	0	66	1.15
19-Sep	9.1	0	0.01	--	--	0	68	0.87
24-Sep	9.0	0	0.01	--	0.78	0	73	0.45
26-Sep	9.1	0	0.01	--	--	0	75	0.65
1-Oct	9.3	0	0.01	--	0.68	0	80	0.44
5-Oct	9.3	0	0.01	--	--	0	84	0.26
8-Oct	9.2	0	0.01	--	0.52	0	87	0.16
17-Oct	--	--	--	--	--	3,000	96	--
19-Oct	8.6	0	0.01	--	--	0	98	2.65
22-Oct	8.8	0	0.01	--	--	0	101	2.68
23-Oct	8.6	0	0.01	0.98	0.16	0	102	1.86

(*) - GWS-BCY3 Syrup.

Table 6-61.
Eagle Gold Project
Bacterial Detoxification
KCA Test No. 63304

Date	pH	Culture* Added, grams	Nutrient Soln. Added, grams	Free NaCN, gpL	Total CN, mg/L	WAD CN, mg/L	Makeup Water Added, mLs	Detox Days	Effluent Volume, L
13-Jul	9.9	24.25	--	0.048	51.72	22.2	0	0	Start
16-Jul	9.3	0	--	0.04	--	--	0	3	2.03
17-Jul	9.3	0	--	0.02	--	--	0	4	0.51
18-Jul	9.4	0	--	0.02	--	--	0	5	0.85
19-Jul	9.4	0	--	0.02	--	--	0	6	0.79
20-Jul	9.2	0	--	0.02	--	--	0	7	0.52
23-Jul	9.1	0	--	0.01	--	--	0	10	3.22
24-Jul	9.3	0	--	0.01	--	--	0	11	0.58
25-Jul	9.6	0	--	0.01	--	--	0	12	0.82
26-Jul	9.3	0	--	0.01	--	--	0	13	0.81
27-Jul	9.3	0	--	0.01	--	--	0	14	0.81
30-Jul	9.3	0	--	0.01	--	2.66	0	17	2.78
31-Jul	9.3	0	--	0.01	--	--	0	18	0.53
1-Aug	9.1	0	--	0.01	--	--	0	19	0.72
2-Aug	9.1	0	--	0.01	--	--	0	20	0.79
3-Aug	9.2	0	--	0.01	--	--	0	21	0.73
6-Aug	9.2	0	--	0.01	--	--	0	24	2.99
7-Aug	9.2	0	--	0.01	--	--	0	25	0.70
8-Aug	9.1	0	--	0.01	--	--	0	26	0.83
9-Aug	9.1	0	--	0.01	--	--	0	27	0.86
10-Aug	9.1	0	--	0.01	--	--	0	28	0.87
13-Aug	9.1	0	--	0.01	--	--	0	31	2.46
14-Aug	9.1	0	--	0.01	--	--	0	32	0.62
15-Aug	9.1	0	--	0.01	--	--	0	33	0.91
16-Aug	9.2	0	--	0.01	--	--	0	34	0.82
17-Aug	9.0	0	--	0.01	--	--	0	35	0.89
20-Aug	9.2	0	--	0.01	--	0.73	0	38	2.77
21-Aug	9.1	0	--	0.01	--	--	0	39	0.74
22-Aug	9.1	0	--	0.01	--	--	0	40	0.81
23-Aug	9.1	0	--	0.01	--	--	0	41	0.85
24-Aug	9.1	0	--	0.01	--	--	0	42	0.82
27-Aug	9.1	0	--	0.01	--	0.62	0	45	2.78
28-Aug	9.1	0	--	0.01	--	--	0	46	0.54
29-Aug	9.0	0	--	0.01	--	--	0	47	0.84
31-Aug	9.1	0	--	0.01	--	--	0	49	1.01
4-Sep	9.2	0	--	0.01	--	--	0	53	2.69
6-Sep	9.1	0	--	0.01	--	0.31	0	55	0.60
10-Sep	9.1	0	--	0.01	--	--	0	59	2.29
12-Sep	9.2	0	--	0.01	--	0.73	0	61	0.71
14-Sep	9.1	0	--	0.01	--	--	0	63	0.78
17-Sep	8.9	0	--	0.01	--	0.66	0	66	1.36
19-Sep	9.1	0	--	0.01	--	--	0	68	1.22
21-Sep	9.3	0	--	0.01	--	--	0	70	0.77
24-Sep	8.8	0	--	0.01	--	0.62	0	73	1.00
26-Sep	9.1	0	--	0.01	--	--	0	75	1.16
1-Oct	9.1	0	--	0.01	--	0.52	0	80	0.83
5-Oct	9.2	0	--	0.01	--	--	0	84	0.82
8-Oct	9.1	0	--	0.01	--	0.42	0	87	0.73
10-Oct	9.1	0	--	0.01	--	--	0	89	0.41
12-Oct	9.0	0	--	0.01	--	--	0	91	0.32
15-Oct	9.4	0	--	0.01	--	--	0	94	0.29
17-Oct	--	--	--	--	--	--	3000	96	0.05
19-Oct	8.6	0	--	0.01	--	--	0	98	2.91
22-Oct	8.8	0	--	0.01	--	--	0	101	2.98
23-Oct	8.6	0	--	0.01	0.88	0.17	0	102	2.53
9-Jan	--	--	--	--	--	0.16	500	180	--
	--	--	--	--	--	0.14			--
7-Mar	--	--	65	--	--	--	100	237	--
18-Mar	--	--	--	--	--	--	--	248	1.57
19-Mar	--	--	--	--	--	--	--	249	1.60
20-Mar	--	--	--	--	--	--	--	250	1.62

(*) - GWS-BCY3 Syrup.

Table 6-62.
Eagle Gold Project
Bacterial Detoxification
KCA Test No. 63307

Date	pH	Culture* Added, grams	Nutrient Soln. Added, grams	Free NaCN, gpL	Total CN, mg/L	WAD CN, mg/L	Makeup Water Added, mLs	Detox Days	Effluent Volume, L
13-Jul	9.9	24.25	--	0.072	68.07	23.53	0	0	Start
16-Jul	9.4	0	--	0.06	--	--	0	3	1.86
17-Jul	9.5	0	--	0.05	--	--	0	4	0.61
18-Jul	9.5	0	--	0.03	--	--	0	5	0.69
19-Jul	9.6	0	--	0.04	--	--	0	6	0.61
20-Jul	9.5	0	--	0.03	--	--	0	7	0.88
23-Jul	9.3	0	--	0.02	--	--	0	10	3.04
24-Jul	9.6	0	--	0.01	--	--	0	11	0.48
25-Jul	9.8	0	--	0.01	--	--	0	12	0.66
26-Jul	9.4	0	--	0.01	--	--	0	13	1.01
27-Jul	9.4	0	--	0.01	--	--	0	14	0.64
30-Jul	9.4	0	--	0.01	--	2.13	0	17	2.63
31-Jul	9.4	0	--	0.01	--	--	0	18	0.79
1-Aug	9.2	0	--	0.01	--	--	0	19	0.78
2-Aug	9.2	0	--	0.01	--	--	0	20	0.82
3-Aug	9.3	0	--	0.01	--	--	0	21	0.79
6-Aug	9.2	0	--	0.01	--	--	0	24	2.22
7-Aug	9.2	0	--	0.01	--	--	0	25	1.22
8-Aug	9.2	0	--	0.01	--	--	0	26	0.72
9-Aug	9.2	0	--	0.01	--	--	0	27	0.82
10-Aug	9.1	0	--	0.01	--	--	0	28	0.88
13-Aug	9.2	0	--	0.01	--	--	0	31	2.25
14-Aug	9.2	0	--	0.01	--	--	0	32	0.54
15-Aug	9.2	0	--	0.01	--	--	0	33	0.91
16-Aug	9.2	0	--	0.01	--	--	0	34	0.72
17-Aug	9.2	0	--	0.01	--	--	0	35	0.86
20-Aug	9.2	0	--	0.01	--	2.26	0	38	2.26
21-Aug	9.2	0	--	0.01	--	--	0	39	0.63
22-Aug	9.2	0	--	0.01	--	--	0	40	0.75
23-Aug	9.2	0	--	0.01	--	--	0	41	0.74
24-Aug	9.2	0	--	0.01	--	--	0	42	0.89
27-Aug	9.3	0	--	0.01	--	0.73	0	45	1.39
28-Aug	9.2	0	--	0.01	--	--	0	46	0.56
29-Aug	9.0	0	--	0.01	--	--	0	47	0.84
31-Aug	9.2	0	--	0.01	--	--	0	49	0.89
4-Sep	9.3	0	--	0.01	--	--	0	53	1.32
6-Sep	9.1	0	--	0.01	--	0.52	0	55	0.85
10-Sep	9.3	0	--	0.01	--	--	0	59	0.88
12-Sep	9.2	0	--	0.01	--	1.14	0	61	0.71
14-Sep	9.2	0	--	0.01	--	--	0	63	0.36
17-Sep	9.3	0	--	0.01	--	0.73	0	66	0.45
19-Sep	9.3	0	--	0.01	--	--	0	68	0.25
21-Sep	9.3	0	--	0.01	--	--	0	70	0.64
24-Sep	9.3	0	--	0.01	--	0.62	0	73	0.59
26-Sep	9.3	0	--	0.01	--	--	0	75	0.24
1-Oct	9.3	0	--	0.01	--	0.42	0	80	0.56
5-Oct	9.3	0	--	0.01	--	--	0	84	0.35
8-Oct	9.1	0	--	0.01	--	0.42	0	87	0.16
17-Oct	--	--	--	--	--	--	3000	96	
19-Oct	8.8	0	--	0.01	--	--	0	98	2.52
22-Oct	8.8	0	--	0.01	--	--	0	101	2.44
23-Oct		0	--	0.01			0	102	1.99
9-Jan	--	--	--	--	--	0.16	500	180	--
	--	--	--	--	--	0.14			--
7-Mar	--	--	65	--	--	--	100	237	--
18-Mar	--	--	--	--	--	--	--	248	1.32
19-Mar	--	--	--	--	--	--	--	249	1.34
20-Mar	--	--	--	--	--	--	--	250	1.34

(*) - GWS-BCY3 Syrup.

Table 6-63.
Eagle Gold Project
Bacterial Detoxification
KCA Test No. 63319

Date	pH	Culture* Added, grams	Nutrient Soln. Added, grams	Free NaCN, gpL	Total CN, mg/L	WAD CN, mg/L	Makeup Water Added, mLs	Detox Days	Effluent Volume, L
13-Jul	10.1	24.25	--	0.036	28.58	19.68	0	0	Start
16-Jul	10.1	0	--	0.04	--	--	0	3	2.30
17-Jul	9.9	0	--	0.02	--	--	0	4	0.55
18-Jul	10.0	0	--	0.02	--	--	0	5	0.96
19-Jul	9.9	0	--	0.02	--	--	0	6	1.22
20-Jul	10.0	0	--	0.02	--	--	0	7	1.32
23-Jul	9.8	0	--	0.01	--	--	0	10	21.3
24-Jul	9.7	0	--	0.01	--	--	0	11	0.49
25-Jul	10.0	0	--	0.01	--	--	0	12	1.34
26-Jul	9.8	0	--	0.01	--	--	0	13	0.69
27-Jul	9.7	0	--	0.01	--	--	0	14	1.18
30-Jul	9.4	0	--	0.01	--	9.31	0	17	2.23
31-Jul	9.4	0	--	0.01	--	--	0	18	0.57
1-Aug	9.4	0	--	0.01	--	--	0	19	1.16
2-Aug	9.3	0	--	0.01	--	--	0	20	1.14
3-Aug	9.3	0	--	0.01	--	--	0	21	0.57
6-Aug	9.4	0	--	0.01	--	--	0	24	2.89
7-Aug	9.3	0	--	0.01	--	--	0	25	0.60
8-Aug	9.1	0	--	0.01	--	--	0	26	0.89
9-Aug	9.1	0	--	0.01	--	--	0	27	1.06
10-Aug	9.0	0	--	0.01	--	--	0	28	0.46
13-Aug	9.1	0	--	0.01	--	--	0	31	2.52
14-Aug	9.1	0	--	0.01	--	--	0	32	0.74
15-Aug	9.0	0	--	0.01	--	--	0	33	1.06
16-Aug	9.1	0	--	0.01	--	--	0	34	0.43
17-Aug	9.1	0	--	0.01	--	--	0	35	0.57
20-Aug	9.1	0	--	0.01	--	2.86	0	38	3.70
21-Aug	9.1	0	--	0.01	--	--	0	39	0.35
22-Aug	9.0	0	--	0.01	--	--	0	40	0.99
23-Aug	9.1	0	--	0.01	--	--	0	41	0.96
24-Aug	9.1	0	--	0.01	--	--	0	42	0.74
27-Aug	9.2	0	--	0.01	--	2.71	0	45	2.67
28-Aug	9.2	0	--	0.01	--	--	0	46	1.02
29-Aug	9.0	0	--	0.01	--	--	0	47	0.79
31-Aug	9.1	0	--	0.01	--	--	0	49	1.11
4-Sep	9.2	0	--	0.01	--	--	0	53	2.29
6-Sep	9.1	0	--	0.01	--	1.20	0	55	1.48
10-Sep	9.1	0	--	0.01	--	--	0	59	3.05
12-Sep	9.1	0	--	0.01	--	2.03	0	61	0.97
14-Sep	9.0	0	--	0.01	--	--	0	63	1.00
17-Sep	9.1	0	--	0.01	--	1.73	0	66	2.52
19-Sep	9.1	0	--	0.01	--	--	0	68	0.92
21-Sep	9.2	0	--	0.01	--	--	0	70	1.41
24-Sep	9.2	0	--	0.01	--	0.42	0	73	2.70
26-Sep	9.0	0	--	0.01	--	--	0	75	2.18
1-Oct	9.1	0	--	0.01	--	0.31	0	80	2.22
5-Oct	8.8	0	--	0.01	--	--	0	84	1.70
8-Oct	9.0	0	--	0.01	--	0.31	0	87	1.56
10-Oct	9.1	0	--	0.01	--		0	89	0.90
12-Oct	9.1	0	--	0.01	--		0	91	0.72
15-Oct	9.2	0	--	0.01	--		0	94	1.12
17-Oct	9.1	--	--	--	--	--	3000	96	0.88
19-Oct	9.0	0	--	0.01	--	--	0	98	3.75
22-Oct	9.0	0	--	0.01	--	--	0	101	3.83
23-Oct	--	0	--	0.01			0	102	2.19
9-Jan	--	--	--	--	--	0.26	500	180	--
	--	--	--	--	--	0.24			--
16-Jan	--	--	--	--	--	0.12	250	187	--
7-Mar	--	--	65	--	--	--	100	237	--
18-Mar	--	--	--	--	--	--	--	248	1.35
19-Mar	--	--	--	--	--	--	--	249	1.37
20-Mar	--	--	--	--	--	--	--	250	1.36

(*) - GWS-BCY3 Syrup.

Table 6-64.
Eagle Gold Project
KCA Test No. 63301
Bacterial Detoxification Solution Analyses

		63301 Detox Post Bacteria* (13, July)	63301 Detox Post Bacteria* (30, July)	63301 Detox (23, Oct)	63301 End Detox (3, Dec)
	WET Lab No.:	1207283	1207631	1210487	1212012
	Report Date:	27-Jul-12	15-Aug-12	29-Oct-12	14-Dec-12
Constituent	**Unit**				
pH	pH Units	--	--	8.36	8.80
Acidity (Titrimetric)	mg/L as CaCO3	--	--	-363	-163
Bicarbonate (HCO3)	mg/L	--	--	720	1200
Carbonate (CO3)	mg/L	--	--	4.4	65
Hydroxide (OH)	mg/L	--	--	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	--	--	600	1100
Redox Potential	mV	--	--	280	230
Total Kjeldahl Nitrogen	mg/L	85	44	35	0.15
Total Nitrogen	mg/L	86	45	170	0.15
Total Dissolved Solids (TDS)	mg/L	--	--	2900	2600
Electrical Conductivity	µmhos/cm	--	--	5700	4100
Chloride	mg/L	--	--	63	27
Fluoride	mg/L	--	--	2.2	1.6
Sulfate	mg/L	--	--	1600	950
Nitrate Nitrogen	mg/L	0.89	<0.20	2.4	<1.0
Nitrite Nitrogen	mg/L		0.82	130	<0.25
Aluminum	mg/L	--	6.9	0.74	0.70
Barium	mg/L	--	0.11	0.062	0.031
Beryllium	mg/L	--	<0.010	<0.0010	<0.0010
Bismuth	mg/L	--	<1.0	<0.10	<0.10
Boron	mg/L	--	<1.0	0.17	0.12
Cadmium	mg/L	--	<0.010	<0.0010	<0.0010
Calcium	mg/L	--	20	32	17
Chromium	mg/L	--	<0.050	<0.0050	<0.0050
Cobalt	mg/L	--	0.34	0.58	0.17
Copper	mg/L	--	<0.50	<0.10	<0.050
Gallium	mg/L	--	<1.0	<0.10	<0.10
Iron	mg/L	--	15	14	3.6
Lithium	mg/L	--	<1.0	<0.10	<0.10
Magnesium	mg/L	--	<5.0	6.6	3.3
Manganese	mg/L	--	0.13	0.070	0.036
Molybdenum	mg/L	--	0.18	0.22	0.11
Nickel	mg/L	--	<0.10	<0.010	<0.010
Phosphorus	mg/L	--	<5.0	0.64	<0.50
Potassium	mg/L	--	<25	15	13
Scandium	mg/L	--	<1.0	<0.10	<0.10
Silver	mg/L	--	<0.050	<0.0050	<0.0050
Sodium	mg/L	--	720	1400	960
Strontium	mg/L	--	<1.0	1.0	0.44
Tin	mg/L	--	<1.0	<0.10	<0.10
Titanium	mg/L	--	<1.0	<0.10	<0.10
Vanadium	mg/L	--	<0.10	0.025	0.019
Zinc	mg/L	--	0.14	0.014	<0.010
Mercury	mg/L	--	0.0057	<0.0020	<0.0010
Antimony	mg/L	--	1.9	1.5	1.3
Arsenic	mg/L	--	22	3.1	2.2
Lead	mg/L	--	0.70	0.054	0.057
Selenium	mg/L	--	0.064	0.034	0.016
Thallium	mg/L	--	<0.010	<0.0010	<0.0010
Anions	meq/L	--	--	48.1	42.5
Cations	meq/L	--	--	64.3	41.8
Error	%	--	--	14	<1.0
Cyanate	mg/L	100	<2.5	2.4	5.3
Thiocyanate	mg/L	45	53	61	2.2
Ammonia, as Nitrogen	mg/L	31	3.1	0.34	--
Total Cyanide	mg/L	--	--	21	11
WAD Cyanide	mg/L	--	--	1.3	0.24
Total Organic Carbon	mg/L	--	--	68.0	26.0

Table 6-65.
Eagle Gold Project
KCA Test No. 63304
Bacterial Detoxification Solution Analyses

		63304 Detox Post Bacteria* (13, July)	63304 Detox Post Bacteria* (30, July)	63304 (23, Oct)	63304 (3, Dec)	63304 (17, Jan)
	WET Lab No.:	1207283	1207631	1210487	1212039	1301278
	Report Date:	27-Jul-12	15-Aug-12	29-Oct-12	17-Dec-12	23-Jan-13
Constituent	**Unit**					
pH	pH Units	--	--	8.42	8.66	8.37
Acidity (Titrimetric)	mg/L as CaCO3	--	--	-117	--	-46
Bicarbonate (HCO3)	mg/L	--	--	790	1100	520
Carbonate (CO3)	mg/L	--	--	8.0	47	3.9
Hydroxide (OH)	mg/L	--	--	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	--	--	660	1000	430
Redox Potential	mV	--	--	200	240	250
Total Kjeldahl Nitrogen	mg/L	110	98	40	7.6	7.2
Total Nitrogen	mg/L	110	99	250	9.0	7.2
Total Dissolved Solids (TDS)	mg/L	--	--	3000	2500	2200
Electrical Conductivity	µmhos/cm	--	--	5500	4100	4000
Chloride	mg/L	--	--	47	22	20
Fluoride	mg/L	--	--	2.4	2.1	2.2
Sulfate	mg/L	--	--	1400	1100	1100
Nitrate Nitrogen	mg/L	0.86	<0.20	12	<1.0	<1.0
Nitrite Nitrogen	mg/L		0.38	190	9.0	<0.25
Aluminum	mg/L	--	7.2	2.0	1.1	2.6
Barium	mg/L	--	<0.10	0.058	0.036	0.061
Beryllium	mg/L	--	<0.010	<0.0010	<0.0010	<0.0050
Bismuth	mg/L	--	<1.0	<0.10	<0.10	<0.50
Boron	mg/L	--	<1.0	0.16	0.15	<0.50
Cadmium	mg/L	--	<0.010	<0.0010	<0.0010	<0.0050
Calcium	mg/L	--	19	22	17	45
Chromium	mg/L	--	<0.050	<0.0050	<0.0050	<0.025
Cobalt	mg/L	--	0.44	0.67	0.23	0.20
Copper	mg/L	--	<0.50	<0.10	<0.050	<0.25
Gallium	mg/L	--	<1.0	<0.10	<0.10	<0.50
Iron	mg/L	--	12	11	3.2	2.7
Lithium	mg/L	--	<1.0	<0.10	<0.10	<0.50
Magnesium	mg/L	--	<5.0	4.0	3.2	2.6
Manganese	mg/L	--	0.14	0.11	0.068	0.084
Molybdenum	mg/L	--	0.21	0.26	0.12	0.16
Nickel	mg/L	--	<0.10	0.010	<0.010	<0.050
Phosphorus	mg/L	--	<5.0	0.98	0.53	<2.5
Potassium	mg/L	--	5.6	13	12	9.2
Scandium	mg/L	--	<1.0	<0.10	<0.10	<0.50
Silver	mg/L	--	<0.050	<0.0050	<0.0050	<0.025
Sodium	mg/L	--	760	1300	1000	700
Strontium	mg/L	--	<1.0	0.76	0.48	0.79
Tin	mg/L	--	<1.0	<0.10	<0.10	<0.50
Titanium	mg/L	--	<1.0	<0.10	<0.10	<0.50
Vanadium	mg/L	--	<0.10	0.025	0.021	<0.050
Zinc	mg/L	--	0.12	0.023	<0.010	0.11
Mercury	mg/L	--	0.0070	<0.0020	<0.0010	<0.0005
Antimony	mg/L	--	1.9	1.3	1.3	1.1
Arsenic	mg/L	--	22	5.1	3.0	2.6
Lead	mg/L	--	0.76	0.22	0.090	0.25
Selenium	mg/L	--	0.065	0.035	0.020	<0.025
Thallium	mg/L	--	<0.010	<0.0010	<0.0010	<0.0050
Anions	meq/L	--	--	45.4	43.2	32.3
Cations	meq/L	--	--	59.1	45.2	33.6
Error	%	--	--	<1.0	2.2	2.0
Cyanate	mg/L	140	63	3.6	5.5	5.5
Thiocyanate	mg/L	55	65	88	2.7	4.7
Ammonia, as Nitrogen	mg/L	55	49	0.21	--	0.22
Total Cyanide	mg/L	--	--	18	7.6	7.0
WAD Cyanide	mg/L	--	--	0.62	0.25	1.6
Total Organic Carbon	mg/L	--	--	73.0	27.0	20.7

Table 6-66.
Eagle Gold Project
KCA Test No. 63304
Bacterial Detoxification Solution Analyses (continued)

		63304 (22, Jan)	63304 (31, Jan)	63304 (7, Feb)	63304 (65963 A-D)[1] 4X-250 mL, WAD	63304 (14, Mar)
	WET Lab No.:	SEM 125850	1301467	1302111	1302210	1303275
	Report Date:	23-Jan-13	1-Feb-13	8-Feb-13	14-Feb-13	15-Mar-13
Constituent	**Unit**					
pH	pH Units	--	--	--	--	--
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	--	--	--	--	--
Carbonate (CO3)	mg/L	--	--	--	--	--
Hydroxide (OH)	mg/L	--	--	--	--	--
Total Alkalinity	mg/L as CaCO3	--	--	--	--	--
Redox Potential	mV	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--
Electrical Conductivity	µmhos/cm	--	--	--	--	--
Chloride	mg/L	--	--	--	--	--
Fluoride	mg/L	--	--	--	--	--
Sulfate	mg/L	--	--	--	--	--
Nitrate Nitrogen	mg/L	--	--	--	--	--
Nitrite Nitrogen	mg/L	--	--	--	--	--
Aluminum	mg/L	--	--	--	--	--
Barium	mg/L	--	--	--	--	--
Beryllium	mg/L	--	--	--	--	--
Bismuth	mg/L	--	--	--	--	--
Boron	mg/L	--	--	--	--	--
Cadmium	mg/L	--	--	--	--	--
Calcium	mg/L	--	--	--	--	--
Chromium	mg/L	--	--	--	--	--
Cobalt	mg/L	--	--	--	--	--
Copper	mg/L	--	--	--	--	--
Gallium	mg/L	--	--	--	--	--
Iron	mg/L	--	--	--	--	--
Lithium	mg/L	--	--	--	--	--
Magnesium	mg/L	--	--	--	--	--
Manganese	mg/L	--	--	--	--	--
Molybdenum	mg/L	--	--	--	--	--
Nickel	mg/L	--	--	--	--	--
Phosphorus	mg/L	--	--	--	--	--
Potassium	mg/L	--	--	--	--	--
Scandium	mg/L	--	--	--	--	--
Silver	mg/L	--	--	--	--	--
Sodium	mg/L	--	--	--	--	--
Strontium	mg/L	--	--	--	--	--
Tin	mg/L	--	--	--	--	--
Titanium	mg/L	--	--	--	--	--
Vanadium	mg/L	--	--	--	--	--
Zinc	mg/L	--	--	--	--	--
Mercury	mg/L	--	--	--	--	--
Antimony	mg/L	--	--	--	--	--
Arsenic	mg/L	--	--	--	--	--
Lead	mg/L	--	--	--	--	--
Selenium	mg/L	--	--	--	--	--
Thallium	mg/L	--	--	--	--	--
Anions	meq/L	--	--	--	--	--
Cations	meq/L	--	--	--	--	--
Error	%	--	--	--	--	--
Cyanate	mg/L	--	--	--	--	--
Thiocyanate	mg/L	--	--	--	--	--
Ammonia, as Nitrogen	mg/L	--	--	--	--	--
Total Cyanide	mg/L	--	--	--	5.3	--
WAD Cyanide	mg/L	0.080	0.26	0.033	0.35	0.048
Total Organic Carbon	mg/L	--	--	--	--	--

Note (1): Total and WAD cyanide values are averages of four (4) tests (65963 A-D).

Table 6-67.
Eagle Gold Project
KCA Test No. 63307
Bacterial Detoxification Solution Analyses

		63307 Detox Post Bacteria* (13, July)	63307 Detox Post Bacteria* (30, July)	63307 (23, Oct)	63307 (3, Dec)	63307 (17, Jan)
	WET Lab No.:	1207283	1207631	1210487	1212039	1301278
	Report Date:	27-Jul-12	15-Aug-12	29-Oct-12	17-Dec-12	23-Jan-13
Constituent	**Unit**					
pH	pH Units	--	--	8.42	8.71	8.36
Acidity (Titrimetric)	mg/L as CaCO3	--	--	-114	--	-63
Bicarbonate (HCO3)	mg/L	--	--	950	1500	640
Carbonate (CO3)	mg/L	--	--	9.5	69	3.8
Hydroxide (OH)	mg/L	--	--	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	--	--	790	1300	530
Redox Potential	mV	--	--	220	210	240
Total Kjeldahl Nitrogen	mg/L	160	120	43	15	7.7
Total Nitrogen	mg/L	160	120	290	17	7.7
Total Dissolved Solids (TDS)	mg/L	--	--	4000	2800	2100
Electrical Conductivity	µmhos/cm	--	--	5800	4400	3900
Chloride	mg/L	--	--	56	26	21
Fluoride	mg/L	--	--	2.4	2.3	2.4
Sulfate	mg/L	--	--	1300	1000	980
Nitrate Nitrogen	mg/L	0.84	<0.20	7.1	2.1	<1.0
Nitrite Nitrogen	mg/L		1.0	240	0.29	<0.25
Aluminum	mg/L	--	6.9	1.0	0.73	2.2
Barium	mg/L	--	0.10	0.048	0.031	0.063
Beryllium	mg/L	--	<0.010	<0.0010	<0.0010	<0.0050
Bismuth	mg/L	--	<1.0	<0.10	<0.10	<0.50
Boron	mg/L	--	<1.0	0.16	0.13	<0.50
Cadmium	mg/L	--	<0.010	<0.0010	<0.0010	<0.0050
Calcium	mg/L	--	19	19	15	22
Chromium	mg/L	--	<0.050	<0.0050	<0.0050	<0.025
Cobalt	mg/L	--	0.53	0.72	0.22	0.18
Copper	mg/L	--	<0.50	<0.10	<0.050	<0.25
Gallium	mg/L	--	<1.0	<0.10	<0.10	<0.50
Iron	mg/L	--	17	15	5.3	3.8
Lithium	mg/L	--	<1.0	<0.10	<0.10	<0.50
Magnesium	mg/L	--	<5.0	4.2	3.4	2.6
Manganese	mg/L	--	0.15	0.062	0.044	0.063
Molybdenum	mg/L	--	0.23	0.27	0.13	0.15
Nickel	mg/L	--	<0.10	<0.010	<0.010	<0.050
Phosphorus	mg/L	--	5.2	1.2	0.65	<2.5
Potassium	mg/L	--	<25	12	12	7.8
Scandium	mg/L	--	<1.0	<0.10	<0.10	<0.50
Silver	mg/L	--	<0.050	<0.0050	<0.0050	<0.025
Sodium	mg/L	--	940	1400	1200	740
Strontium	mg/L	--	<1.0	0.70	0.44	<0.50
Tin	mg/L	--	<1.0	<0.10	<0.10	<0.50
Titanium	mg/L	--	<1.0	<0.10	<0.10	<0.50
Vanadium	mg/L	--	<0.10	0.030	0.027	<0.050
Zinc	mg/L	--	0.18	0.017	<0.010	0.095
Mercury	mg/L	--	0.0072	<0.0020	<0.0010	<0.0005
Antimony	mg/L	--	2.0	1.3	1.3	1.0
Arsenic	mg/L	--	23	6.0	3.9	2.9
Lead	mg/L	--	0.73	0.071	0.059	0.24
Selenium	mg/L	--	0.072	<0.10	0.019	<0.025
Thallium	mg/L	--	<0.010	<0.0010	<0.0010	<0.0050
Anions	meq/L	--	--	46.6	48.7	31.8
Cations	meq/L	--	--	63.5	53.9	34.2
Error	%	--	--	15	5.0	3.5
Cyanate	mg/L	160	100	3.8	3.8	5.9
Thiocyanate	mg/L	57	76	100	4.4	9.2
Ammonia, as Nitrogen	mg/L	71	62	0.72	--	0.36
Total Cyanide	mg/L	--	--	38	17	10
WAD Cyanide	mg/L	--	--	0.84	0.32	2.5
Total Organic Carbon	mg/L	--	--	82.0	41.0	22.6

Table 6-68.
Eagle Gold Project
KCA Test No. 63307
Bacterial Detoxification Solution Analyses (continued)

		63307 (22, Jan)	63307 (31, Jan)	63307 (7, Feb)	63307 (14, Mar)
	WET Lab No.:	SEM 125850	1301467	1302111	1303275
	Report Date:	23-Jan-13	1-Feb-13	8-Feb-13	15-Mar-13
Constituent	**Unit**				
pH	pH Units	--	--	--	--
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--
Bicarbonate (HCO3)	mg/L	--	--	--	--
Carbonate (CO3)	mg/L	--	--	--	--
Hydroxide (OH)	mg/L	--	--	--	--
Total Alkalinity	mg/L as CaCO3	--	--	--	--
Redox Potential	mV	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--
Electrical Conductivity	µmhos/cm	--	--	--	--
Chloride	mg/L	--	--	--	--
Fluoride	mg/L	--	--	--	--
Sulfate	mg/L	--	--	--	--
Nitrate Nitrogen	mg/L	--	--	--	--
Nitrite Nitrogen	mg/L	--	--	--	--
Aluminum	mg/L	--	--	--	--
Barium	mg/L	--	--	--	--
Beryllium	mg/L	--	--	--	--
Bismuth	mg/L	--	--	--	--
Boron	mg/L	--	--	--	--
Cadmium	mg/L	--	--	--	--
Calcium	mg/L	--	--	--	--
Chromium	mg/L	--	--	--	--
Cobalt	mg/L	--	--	--	--
Copper	mg/L	--	--	--	--
Gallium	mg/L	--	--	--	--
Iron	mg/L	--	--	--	--
Lithium	mg/L	--	--	--	--
Magnesium	mg/L	--	--	--	--
Manganese	mg/L	--	--	--	--
Molybdenum	mg/L	--	--	--	--
Nickel	mg/L	--	--	--	--
Phosphorus	mg/L	--	--	--	--
Potassium	mg/L	--	--	--	--
Scandium	mg/L	--	--	--	--
Silver	mg/L	--	--	--	--
Sodium	mg/L	--	--	--	--
Strontium	mg/L	--	--	--	--
Tin	mg/L	--	--	--	--
Titanium	mg/L	--	--	--	--
Vanadium	mg/L	--	--	--	--
Zinc	mg/L	--	--	--	--
Mercury	mg/L	--	--	--	--
Antimony	mg/L	--	--	--	--
Arsenic	mg/L	--	--	--	--
Lead	mg/L	--	--	--	--
Selenium	mg/L	--	--	--	--
Thallium	mg/L	--	--	--	--
Anions	meq/L	--	--	--	--
Cations	meq/L	--	--	--	--
Error	%	--	--	--	--
Cyanate	mg/L	--	--	--	--
Thiocyanate	mg/L	--	--	--	--
Ammonia, as Nitrogen	mg/L	--	--	--	--
Total Cyanide	mg/L	--	--	--	--
WAD Cyanide	mg/L	0.068	0.32	1.1	0.072
Total Organic Carbon	mg/L	--	--	--	--

Table 6-69.
Eagle Gold Project
KCA Test No. 63319
Bacterial Detoxification Solution Analyses

		63319 Detox Post Bacteria* (13, July)	63319 Detox Post Bacteria* (30, July)	63319 (23, Oct)	63319 (3, Dec)	63319 (17, Jan)
	WET Lab No.:	1207283	1207631	1210487	1212039	1301278
	Report Date:	27-Jul-12	15-Aug-12	29-Oct-12	17-Dec-12	23-Jan-13
Constituent	**Unit**					
pH	pH Units	--	--	8.84	8.77	8.50
Acidity (Titrimetric)	mg/L as CaCO3	--	--	-120	--	-65
Bicarbonate (HCO3)	mg/L	--	--	800	910	610
Carbonate (CO3)	mg/L	--	--	57	47	9.3
Hydroxide (OH)	mg/L	--	--	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	--	--	750	820	520
Redox Potential	mV	--	--	130	140	150
Total Kjeldahl Nitrogen	mg/L	84	87	18	7.1	7.0
Total Nitrogen	mg/L	87	90	30	0.76	7.9
Total Dissolved Solids (TDS)	mg/L	--	--	2400	2000	1400
Electrical Conductivity	µmhos/cm	--	--	4200	3700	3100
Chloride	mg/L	--	--	590	650	380
Fluoride	mg/L	--	--	2.1	1.8	1.3
Sulfate	mg/L	--	--	390	190	230
Nitrate Nitrogen	mg/L	2.9	1.6	9.4	<1.0	<1.0
Nitrite Nitrogen	mg/L		1.7	2.8	0.76	0.90
Aluminum	mg/L	--	3.0	0.71	0.23	1.2
Barium	mg/L	--	<0.10	0.023	0.016	0.053
Beryllium	mg/L	--	<0.010	<0.0010	<0.0010	<0.0050
Bismuth	mg/L	--	<1.0	<0.10	<0.10	<0.50
Boron	mg/L	--	<1.0	0.29	0.53	<0.50
Cadmium	mg/L	--	<0.010	<0.0010	<0.0010	<0.0050
Calcium	mg/L	--	19	9.7	8.2	61
Chromium	mg/L	--	<0.050	<0.0050	<0.0050	<0.025
Cobalt	mg/L	--	0.23	0.34	0.092	0.16
Copper	mg/L	--	4.0	<0.10	<0.050	<0.25
Gallium	mg/L	--	<1.0	<0.10	<0.10	<0.50
Iron	mg/L	--	4.7	3.8	0.77	2.1
Lithium	mg/L	--	<1.0	0.12	0.32	<0.50
Magnesium	mg/L	--	<5.0	2.4	2.3	3.6
Manganese	mg/L	--	0.060	0.021	0.011	0.042
Molybdenum	mg/L	--	<0.10	0.13	<0.10	0.062
Nickel	mg/L	--	0.32	0.013	<0.010	<0.050
Phosphorus	mg/L	--	<5.0	1.5	0.71	<2.5
Potassium	mg/L	--	<25	10	11	7.5
Scandium	mg/L	--	<1.0	<0.10	<0.10	<0.50
Silver	mg/L	--	<0.050	<0.0050	<0.0050	<0.025
Sodium	mg/L	--	610	980	830	550
Strontium	mg/L	--	<1.0	0.33	0.25	1.1
Tin	mg/L	--	<1.0	<0.10	<0.10	<0.50
Titanium	mg/L	--	<1.0	<0.10	<1.0	<0.50
Vanadium	mg/L	--	<0.10	0.036	0.027	<0.050
Zinc	mg/L	--	0.24	0.015	<0.010	0.11
Mercury	mg/L	--	0.0033	<0.0020	<0.010	<0.0020
Antimony	mg/L	--	0.80	0.88	0.68	0.61
Arsenic	mg/L	--	16	9.4	5.5	5.5
Lead	mg/L	--	0.41	0.068	0.028	0.15
Selenium	mg/L	--	<0.050	<0.10	<0.050	<0.025
Thallium	mg/L	--	<0.010	<0.0010	<0.0010	<0.0050
Anions	meq/L	--	--	40.9	38.9	25.9
Cations	meq/L	--	--	43.9	37.1	27.7
Error	%	--	--	3.6	2.4	3.3
Cyanate	mg/L	110	120	3.0	2.7	4.3
Thiocyanate	mg/L	23	26	37	12	15
Ammonia, as Nitrogen	mg/L	44	58	0.69	--	0.27
Total Cyanide	mg/L	--	--	7.9	2.9	3.2
WAD Cyanide	mg/L	--	--	0.26	0.10	0.76
Total Organic Carbon	mg/L	--	--	57.0	28.0	36.1

Table 6-70.
Eagle Gold Project
KCA Test No. 63319
Bacterial Detoxification Solution Analyses (continued)

		63319 (22, Jan)	63319 (31, Jan)	63319 (7, Feb)	63319 (14, Mar)
	WET Lab No.:	SEM 125850	1301467	1302111	1303275
	Report Date:	23-Jan-13	1-Feb-13	8-Feb-13	15-Mar-13
Constituent	**Unit**				
pH	pH Units	--	--	--	--
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--
Bicarbonate (HCO3)	mg/L	--	--	--	--
Carbonate (CO3)	mg/L	--	--	--	--
Hydroxide (OH)	mg/L	--	--	--	--
Total Alkalinity	mg/L as CaCO3	--	--	--	--
Redox Potential	mV	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	--	--	--	--
Total Nitrogen	mg/L	--	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	--	--	--
Electrical Conductivity	µmhos/cm	--	--	--	--
Chloride	mg/L	--	--	--	--
Fluoride	mg/L	--	--	--	--
Sulfate	mg/L	--	--	--	--
Nitrate Nitrogen	mg/L	--	--	--	--
Nitrite Nitrogen	mg/L	--	--	--	--
Aluminum	mg/L	--	--	--	--
Barium	mg/L	--	--	--	--
Beryllium	mg/L	--	--	--	--
Bismuth	mg/L	--	--	--	--
Boron	mg/L	--	--	--	--
Cadmium	mg/L	--	--	--	--
Calcium	mg/L	--	--	--	--
Chromium	mg/L	--	--	--	--
Cobalt	mg/L	--	--	--	--
Copper	mg/L	--	--	--	--
Gallium	mg/L	--	--	--	--
Iron	mg/L	--	--	--	--
Lithium	mg/L	--	--	--	--
Magnesium	mg/L	--	--	--	--
Manganese	mg/L	--	--	--	--
Molybdenum	mg/L	--	--	--	--
Nickel	mg/L	--	--	--	--
Phosphorus	mg/L	--	--	--	--
Potassium	mg/L	--	--	--	--
Scandium	mg/L	--	--	--	--
Silver	mg/L	--	--	--	--
Sodium	mg/L	--	--	--	--
Strontium	mg/L	--	--	--	--
Tin	mg/L	--	--	--	--
Titanium	mg/L	--	--	--	--
Vanadium	mg/L	--	--	--	--
Zinc	mg/L	--	--	--	--
Mercury	mg/L	--	--	--	--
Antimony	mg/L	--	--	--	--
Arsenic	mg/L	--	--	--	--
Lead	mg/L	--	--	--	--
Selenium	mg/L	--	--	--	--
Thallium	mg/L	--	--	--	--
Anions	meq/L	--	--	--	--
Cations	meq/L	--	--	--	--
Error	%	--	--	--	--
Cyanate	mg/L	--	--	--	--
Thiocyanate	mg/L	--	--	--	--
Ammonia, as Nitrogen	mg/L	--	--	--	--
Total Cyanide	mg/L	--	--	--	--
WAD Cyanide	mg/L	0.032	0.065	0.47	0.031
Total Organic Carbon	mg/L	--	--	--	--

Table 6-71.
Eagle Gold Project
Composite Solution - Bacterial Detoxification Analyses

		KCA Sample No. 65979	TT-VG-Bench-2 KCA Sample No. 65979
	Report No.:	WETLAB: 1303383	WETLAB: 1304114
	Report Date:	26-Mar-13	8-Apr-13
	Analysis:	Pre Tetra Tech	Post Tetra Tech
	Solution:	--	unpreserved
Constituent	**Unit**		
Cyanate	mg/L	1.6	<5.0
Thiocyanate	mg/L	0.79	<0.10
Ammonia, as Nitrogen	mg/L	<0.050	1.4
Chloride	mg/L	99	130
Fluoride	mg/L	1.9	1.8
Sulfate	mg/L	1000	2200
Nitrate Nitrogen	mg/L	0.30	0.12
Chromium	mg/L	0.0085	0.040
Iron	mg/L	2.9	0.16
Molybdenum	mg/L	0.14	0.075
Nickel	mg/L	0.033	0.026
Silver	mg/L	<0.0015	0.0069
Zinc	mg/L	0.12	0.014
Mercury	mg/L	<0.0010	<0.00010
Antimony	mg/L	0.68	<0.0005
Arsenic	mg/L	2.6	0.0078
Cadmium	mg/L	<0.0009	<0.0009
Copper	mg/L	0.089	0.080
Lead	mg/L	0.53	<0.0020
Selenium	mg/L	0.013	0.016
Thallium	mg/L	<0.0004	<0.0004
Uranium	mg/L	0.52	<0.0004
Total Organic Carbon (TOC)	mg/L	420	--

6.4.2 Hydrogen Peroxide Detoxification

Following the leaching period, detoxification test work utilizing a hydrogen peroxide (copper catalyzed peroxide) detoxification method was conducted on the tailings material from four (4) of the column leach tests (KCA Test Nos. 63310, 63313, 63316 and 63322).

For each of the four (4) columns, hydrogen peroxide and copper nitrate ($CuN_2O_6.5H_2O$) were added to detoxify the final barren solution. The columns were then restarted with the detoxified barren solution (detoxification solution). Initial reagent additions to the detoxification solution were based upon the total cyanide and copper analyses conducted on the final barren solution at the end of the leach period. Daily hydrogen peroxide

additions to the detoxification solution were calculated based upon the initial WAD cyanide analysis. Daily copper nitrate additions were calculated and maintained at 0.21 grams of copper nitrate per liter of detoxification solution.

During the detoxification period, the solutions were sampled periodically and analyzed for pH and free NaCN. Additionally, the solution was analyzed every seven (7) days for WAD cyanide. The daily hydrogen peroxide additions were adjusted accordingly.

After fourteen (14) days of detoxification, the detoxification solution was sampled and submitted to WETLAB for a Profile II analysis.

The detoxification procedure was continued until a WAD cyanide value of less than 0.2 milligrams WAD cyanide per liter of solution was obtained. The final detoxification solution was then sampled and submitted to WETLAB for a Profile II analysis.

On 22 October 2012, a portion of solution from each of the four (4) hydrogen peroxide detoxification columns was sampled and combined into a single composite solution (KCA Sample No. 63593). The composite solution was submitted to Tetra Tech for a Profile II analysis.

At the end of the detoxification period, a rinse cycle of approximately ten (10) days was conducted on the detoxified tailings from each column. Two (2) of the columns (KCA Test Nos. 63310 and 63313) were rinsed with deionized water. The remaining two (2) columns (KCA Test Nos. 63316 and 63322) were rinsed with a mock solution (100 liters) prepared by KCA according to solution generation information provided by the client. The generated mock solution was sampled and submitted to WETLAB and Sierra Environmental Monitoring (SEM) for Profile II analyses. During the rinse cycle, the rinse solution from each column was sampled periodically and analyzed for pH, free NaCN and WAD cyanide. A portion of each rinse solution sample was also submitted to WETLAB for ammonia analysis.

At the end of the rinse cycle, the final rinse solution was sampled and submitted to WETLAB for a Profile II analysis. The detoxified and rinsed tailings material from each column was then utilized for humidity cell test work.

A summary of the sampled solutions from each column is presented in Table 6-72.

The hydrogen peroxide detoxification test work for each column test is presented in Tables 6-73 through 6-76. The individual results from the Profile II and ammonia analyses are presented in Tables 6-77 through 6-82.

The Tetra Tech analysis is presented in Table 6-83.

The mock solution generation information is presented in Table 6-84. A summary of the mock solution analyses is presented in Table 6-85. The mock solution Profile II analysis is presented in Table 6-86.

The received WETLAB and SEM reports are presented in Appendix B (external volume).

Table 6-72.
Eagle Gold Project
Hydrogen Peroxide Detoxification
Summary of Sampled Solutions

KCA Test No.	Solution Description	Sample Date	Solution Type	WETLAB Job No.	Notes
63310	14 days of Peroxide	2-Aug-12	--	1208037	14 days into peroxide detox. Profile ll.
63310	End peroxide detox	8-Oct-12	--	1210173	End of detox. Profile ll only. Start of water rinse on 22 Oct.
63310	Ammonia	29-Oct-12	D.I. Water	1210590	Ammonia assays only.
63310	Ammonia	30-Oct-12	D.I. Water	1210590	Ammonia assays only.
63310	Ammonia	31-Oct-12	D.I. Water	1211029	Ammonia assays only.
63310	Final Rinse	2-Nov-12	D.I. Water	1211030	End of water rinse. Profile ll suite. Start HCT on 11 Nov.
63313	14 days of Peroxide	2-Aug-12	--	1208037	14 days into peroxide detox. Profile ll.
63313	End peroxide detox	8-Oct-12	--	1210173	End of detox. Profile ll only. Start of water rinse on 22 Oct.
63313	Ammonia	29-Oct-12	D.I. Water	1210590	Ammonia assays only.
63313	Ammonia	30-Oct-12	D.I. Water	1210590	Ammonia assays only.
63313	Ammonia	31-Oct-12	D.I. Water	1211029	Ammonia assays only.
63313	Final Rinse	2-Nov-12	D.I. Water	1211030	End of water rinse. Profile ll suite. Start HCT on 11 Nov.
63316	14 days of Peroxide	2-Aug-12	--	1208037	14 days into peroxide detox. Profile ll.
63316	End peroxide detox	8-Oct-12	--	1210173	End of detox. Profile ll only. Start of water rinse on 1 Nov.
63316	Ammonia	2-Nov-12	Mock Solution	1211029	Ammonia assays only.
63316	Ammonia	5-Nov-12	Mock Solution	1211083	Ammonia assays only.
63316	Ammonia	6-Nov-12	Mock Solution	1211083	Ammonia assays only.
63316	Ammonia	7-Nov-12	Mock Solution	1211173	Ammonia assays only.
63316	Ammonia	8-Nov-12	Mock Solution	1211173	Ammonia assays only.
63316	Ammonia	9-Nov-12	Mock Solution	1211173	Ammonia assays only.
63316	Final Rinse		Mock Solution	1211243	End of water rinse. Profile ll suite. Start HCT on 17 Nov.
63322	14 days of Peroxide	2-Aug-12	--	1208037	14 days into peroxide detox. Profile ll.
63322	End peroxide detox	2-Oct-12	--	1210042	End of detox. Profile ll only. Start of water rinse on 1 Nov.
63322	Ammonia	2-Nov-12	Mock Solution	1211029	Ammonia assays only.
63322	Ammonia	5-Nov-12	Mock Solution	1211083	Ammonia assays only.
63322	Ammonia	6-Nov-12	Mock Solution	1211083	Ammonia assays only.
63322	Ammonia	7-Nov-12	Mock Solution	1211173	Ammonia assays only.
63322	Ammonia	8-Nov-12	Mock Solution	1211173	Ammonia assays only.
63322	Ammonia	9-Nov-12	Mock Solution	1211173	Ammonia assays only.
63322	Final Rinse		Mock Solution	1211243	End of water rinse. Profile ll suite. Start HCT on 11 Nov.

Table 6-73.
Eagle Gold Project
Hydrogen Peroxide Detoxification
KCA Test No. 63310

Date	pH	Free NaCN, gpL	35% H_2O_2, grams	$CuN_2O_6 5H_2O$, grams	WAD CN, mg/L	Total CN, mg/L	Detox Days	Water Added, mLs	Fe, mg/L	Cu, mg/L	Onflow Volume, L	Outflow Volume, L	Detox t_s/t_o	Cum. Cu, kg/MT	Cum. 100% H_2O_2, kg/MT
19-Jul	9.8	0.03	0.180	0.21	13.56	41.48	0		6.17	6.81	--	Start	--	0.001	0.002
20-Jul	9.5	0.03	0.540	0.63	--	--	1				--	2.17	--	0.005	0.006
23-Jul	9.5	0.01	0.180	0.21	--	--	4				2.17	7.40	0.05	0.006	0.008
24-Jul	9.4	<0.01	0.180	0.21	--	--	5				7.40	2.93	0.24	0.007	0.010
25-Jul	9.6	<0.01	0.180	0.21	--	--	6				2.93	2.52	0.32	0.008	0.011
26-Jul	9.3	<0.01	0.012	0.21	0.80	--	7				2.52	3.67	0.38	0.010	0.011
27-Jul	9.3	<0.01	0.360	0.63	--	--	8				3.67	2.35	0.47	0.013	0.014
30-Jul	9.1	<0.01	0.012	0.21	--	--	10				2.35	6.85	0.53	0.015	0.015
31-Jul	9.4	<0.01	0.012	0.21	--	--	11				6.85	2.58	0.70	0.016	0.015
1-Aug	9.4	<0.01	0.012	0.21	--	--	12				2.58	3.08	0.77	0.017	0.015
2-Aug	9.1	<0.01	0.021	0.21	1.33	--	13				3.08	2.79	0.85	0.018	0.015
3-Aug	9.0	<0.01	0.063	0.63	--	--	14				2.79	2.93	0.92	0.022	0.015
6-Aug	8.9	<0.01	0.030	0.21	--	--	17				2.93	6.38	0.99	0.023	0.016
7-Aug	9.0	<0.01	0.030	0.21	--	--	18				6.38	2.31	1.15	0.024	0.016
8-Aug	8.9	<0.01	0.030	0.21	--	--	19				2.31	3.27	1.21	0.025	0.016
9-Aug	8.9	<0.01	0.030	0.21	0.83	--	20				3.27	2.73	1.29	0.027	0.017
10-Aug	8.8	<0.01	0.090	0.63	--	--	21				2.73	2.98	1.36	0.030	0.017
13-Aug	9.0	<0.01	0.030	0.21	--	--	24				2.98	5.15	1.44	0.032	0.018
14-Aug	8.8	<0.01	0.030	0.21	--	--	25				5.15	2.35	1.57	0.033	0.018
15-Aug	8.8	<0.01	0.030	0.21	--	--	26				2.35	3.27	1.63	0.034	0.018
16-Aug	8.9	<0.01	0.020	0.21	0.47	--	27				3.27	2.72	1.71	0.035	0.018
17-Aug	8.9	<0.01	0.060	0.63	--	--	28				2.72	3.14	1.78	0.039	0.019
20-Aug	9.0	<0.01	0.020	0.21	--	--	31				3.14	4.42	1.86	0.040	0.019
21-Aug	8.9	<0.01	0.020	0.21	--	--	32				4.42	3.19	1.97	0.041	0.019
22-Aug	8.9	<0.01	0.020	0.21	--	--	33				3.19	2.87	2.05	0.042	0.019
23-Aug	8.9	<0.01	0.020	0.21	0.42	--	34				2.87	3.65	2.12	0.044	0.020
24-Aug	8.8	<0.01	0.060	0.63	--	--	35				3.65	3.66	2.21	0.047	0.020
27-Aug	8.9	<0.01	0.020	0.21	--	--	38				3.66	4.07	2.31	0.049	0.020
28-Aug	8.9	<0.01	0.020	0.21	--	--	39				4.07	3.86	2.41	0.050	0.020
29-Aug	8.8	<0.01	0.020	0.21	0.31	--	40				3.86	3.99	2.51	0.051	0.021
31-Aug	8.9	<0.01	0.060	0.63	--	--	42				3.99	4.05	2.61	0.055	0.021
4-Sep	9.0	<0.01	0.020	0.21	--	--	46				4.05	4.11	2.71	0.056	0.021
6-Sep	8.8	<0.01	0.060	0.63	0.26	--	48				4.11	3.70	2.81	0.059	0.022
10-Sep	9.0	<0.01	0.020	0.21	--	--	52				3.70	3.77	2.91	0.061	0.022
12-Sep	8.9	<0.01	0.020	0.21	0.21	--	54				3.77	3.48	3.00	0.062	0.022
14-Sep	8.8	<0.01	0.060	0.63	--	--	56				3.48	3.10	3.09	0.066	0.023
17-Sep	9.0	<0.01	0.020	0.21	0.24	--	59				3.10	3.39	3.17	0.067	0.023
19-Sep	8.9	<0.01	0.020	0.21	--	--	61				3.39	3.12	3.25	0.068	0.023
21-Sep	9.0	<0.01	0.060	0.63	--	--	63				3.12	3.13	3.33	0.072	0.024
24-Sep	9.0	<0.01	0.020	0.21	0.26	--	66				3.13	2.95	3.41	0.073	0.024
26-Sep	8.9	<0.01	0.020	0.21	--	--	68				2.95	2.73	3.49	0.074	0.024
2-Oct	9.0	<0.01	0.020	0.21	0.16	--	74				2.73	2.61	3.55	0.075	0.024
8-Oct	9.0	<0.01	--	--	<0.10	0.38	80				2.61	2.76	3.62	0.075	0.024
22-Oct	--	<0.01	--	--	--	--	94	3,000			0.00	0.00	3.70	0.075	0.024
23-Oct	--	<0.01	--	--	--	--	95	270			0.00	2.73	3.70	0.075	0.024
24-Oct	--	<0.01	--	--	0.14	--	96	690			2.73	2.31	3.79	0.075	0.024
25-Oct	8.7	<0.01	--	--	--	--	97	0			2.31	3.02	3.85	0.075	0.024
29-Oct	9.1	<0.01	--	--	0.05	--	101	330			3.02	2.67	3.93	0.075	0.024
30-Oct	9.1	<0.01	--	--	0.05	--	102	1,090			2.67	2.41	4.03	0.075	0.024
31-Oct	9.0	<0.01	--	--	0.05	--	103	0			2.41	2.76	4.09	0.075	0.024

Table 6-74.
Eagle Gold Project
Hydrogen Peroxide Detoxification
KCA Test No. 63313

Date	pH	Free NaCN, gpL	35% H_2O_2, grams	CuN_2O_6 $5H_2O$, grams	WAD CN, mg/L	Total CN, mg/L	Detox Days	Water Added, mLs	Fe, mg/L	Cu, mg/L	Onflow Volume, L	Outflow Volume, L	Detox t_s/t_o	Cum. Cu, kg/MT	Cum. 100% H_2O_2, kg/MT
19-Jul	9.9	0.03	0.180	0.21	13.56	38.16	0		4.13	8.28	--	Start	--	0.001	0.002
20-Jul	9.7	0.03	0.540	0.63	--	--	1				--	2.10	--	0.005	0.006
23-Jul	9.6	0.01	0.180	0.21	--	--	4				2.10	6.74	0.05	0.006	0.008
24-Jul	9.6	<0.01	0.180	0.21	--	--	5				6.74	2.98	0.22	0.007	0.010
25-Jul	9.7	<0.01	0.180	0.21	--	--	6				2.98	2.59	0.30	0.008	0.011
26-Jul	9.4	<0.01	0.030	0.21	2.26	--	7				2.59	3.39	0.36	0.010	0.011
27-Jul	9.3	<0.01	0.090	0.63	--	--	8				3.39	2.35	0.45	0.013	0.012
30-Jul	9.2	<0.01	0.030	0.21	--	--	10				2.35	6.32	0.51	0.015	0.012
31-Jul	9.5	<0.01	0.030	0.21	--	--	11				6.32	2.45	0.67	0.016	0.013
1-Aug	9.5	<0.01	0.030	0.21	--	--	12				2.45	3.08	0.73	0.017	0.013
2-Aug	9.3	<0.01	0.030	0.21	0.53	--	13				3.08	2.94	0.81	0.018	0.013
3-Aug	9.2	<0.01	0.030	0.63	--	--	14				2.94	3.17	0.88	0.022	0.014
6-Aug	9.1	<0.01	0.030	0.21	--	--	17				3.17	5.75	0.96	0.023	0.014
7-Aug	9.1	<0.01	0.030	0.21	--	--	18				5.75	1.23	1.11	0.024	0.014
8-Aug	8.9	<0.01	0.030	0.21	--	--	19				1.23	2.92	1.14	0.025	0.014
9-Aug	9.0	<0.01	0.030	0.21	0.31	--	20				2.92	2.76	1.21	0.027	0.015
10-Aug	8.9	<0.01	0.090	0.63	--	--	21				2.76	2.92	1.28	0.030	0.015
13-Aug	9.1	<0.01	0.030	0.21	--	--	24				2.92	3.08	1.36	0.032	0.016
14-Aug	8.8	<0.01	0.030	0.21	--	--	25				3.08	2.44	1.43	0.033	0.016
15-Aug	8.9	<0.01	0.030	0.21	--	--	26				2.44	3.11	1.49	0.034	0.016
16-Aug	9.0	<0.01	0.010	0.21	0.31	--	27				3.11	2.78	1.57	0.035	0.016
17-Aug	9.0	<0.01	0.030	0.63	--	--	28				2.78	2.63	1.64	0.039	0.017
20-Aug	9.1	<0.01	0.010	0.21	--	--	31				2.63	2.25	1.71	0.040	0.017
21-Aug	8.9	<0.01	0.010	0.21	--	--	32				2.25	2.65	1.77	0.041	0.017
22-Aug	8.9	<0.01	0.010	0.21	--	--	33				2.65	2.46	1.83	0.042	0.017
23-Aug	8.9	<0.01	0.010	0.21	0.31	--	34				2.46	1.52	1.90	0.044	0.017
24-Aug	8.9	<0.01	0.030	0.63	--	--	35				1.52	1.49	1.93	0.047	0.017
27-Aug	9.0	<0.01	0.010	0.21	--	--	38				1.49	1.82	1.97	0.049	0.017
28-Aug	9.0	<0.01	0.010	0.21	--	--	39				1.82	1.94	2.02	0.050	0.017
29-Aug	8.8	<0.01	0.010	0.21	0.26	--	40				1.94	1.86	2.07	0.051	0.017
31-Aug	9.0	<0.01	0.030	0.63	--	--	42				1.86	1.8	2.11	0.055	0.018
4-Sep	9.1	<0.01	0.010	0.21	--	--	46				1.8	2.32	2.16	0.056	0.018
6-Sep	8.9	<0.01	0.030	0.63	0.26	--	48				2.32	1.86	2.22	0.059	0.018
10-Sep	9.0	<0.01	0.010	0.21	--	--	52				1.86	1.99	2.26	0.061	0.018
12-Sep	9.0	<0.01	0.010	0.21	0.26	--	54				1.99	1.80	2.31	0.062	0.018
14-Sep	8.9	<0.01	0.030	0.63	--	--	56				1.80	1.46	2.36	0.066	0.018
17-Sep	9.1	<0.01	0.010	0.21	0.26	--	59				1.46	1.52	2.40	0.067	0.019
19-Sep	9.0	<0.01	0.010	0.21	--	--	61				1.52	1.31	2.43	0.068	0.019
21-Sep	9.0	<0.01	0.030	0.63	--	--	63				1.31	1.24	2.47	0.072	0.019
24-Sep	9.1	<0.01	0.010	0.21	0.21	--	66				1.24	1.22	2.50	0.073	0.019
26-Sep	9.0	<0.01	0.010	0.21	--	--	68				1.22	0.87	2.53	0.074	0.019
2-Oct	9.2	<0.01	0.010	0.21	0.10	--	74				0.87	0.62	2.55	0.075	0.019
8-Oct	8.9	<0.01	--	--	<0.10	0.23	80				0.62	0.45	2.57	0.075	0.019
22-Oct	--	<0.01	--	--	--		94	3,000			0.00	0.00	2.64	0.075	0.019
23-Oct	--	<0.01	--	--	--		95	0			0.00	2.90	2.64	0.075	0.019
24-Oct	--	<0.01	--	--	0.11		96	670			2.90	2.33	2.73	0.075	0.019
25-Oct	9.0	<0.01	--	--	--		97	0			2.33	2.96	2.79	0.075	0.019
29-Oct	9.2	<0.01	--	--	0.05		101	480			2.96	2.52	2.88	0.075	0.019
30-Oct	9.1	<0.01	--	--	0.05		102	990			2.52	2.51	2.97	0.075	0.019
31-Oct	9.0	<0.01	--	--	0.05		103	0			2.51	2.95	3.03	0.075	0.019

Table 6-75.
Eagle Gold Project
Hydrogen Peroxide Detoxification
KCA Test No. 63316

Date	pH	Free NaCN, gpL	35% H_2O_2, grams	CuN_2O_6 $5H_2O$, grams	WAD CN, mg/L	Total CN, mg/L	Detox Days	Water Added, mLs	Fe, mg/L	Cu, mg/L	Onflow Volume, L	Outflow Volume, L	Detox t_s/t_o	Cum. Cu, kg/MT	Cum. 100% H_2O_2, kg/MT
19-Jul	9.9	0.02	0.120	0.21	8.64	29.12	0		3.54	7.54	--	Start	--	0.001	0.001
20-Jul	9.5	0.02	0.360	0.63	--	--	1				--	1.15	--	0.005	0.004
23-Jul	9.7	0.01	0.120	0.21	--	--	4				1.15	5.78	0.03	0.006	0.005
24-Jul	9.7	<0.01	0.120	0.21	--	--	5				5.78	3.42	0.17	0.007	0.006
25-Jul	9.7	<0.01	0.120	0.21	--	--	6				3.42	2.09	0.26	0.008	0.007
26-Jul	9.5	<0.01	0.021	0.21	1.60	--	7				2.09	3.4	0.31	0.010	0.008
27-Jul	9.6	<0.01	0.063	0.63	--	--	8				3.4	2.28	0.40	0.013	0.008
30-Jul	9.8	<0.01	0.021	0.21	--	--	10				2.28	6.79	0.46	0.015	0.008
31-Jul	9.5	<0.01	0.021	0.21	--	--	11				6.79	2.47	0.63	0.016	0.009
1-Aug	9.5	<0.01	0.021	0.21	--	--	12				2.47	3.08	0.69	0.017	0.009
2-Aug	9.4	<0.01	0.021	0.21	0.93	--	13				3.08	3.04	0.77	0.018	0.009
3-Aug	9.3	<0.01	0.063	0.63	--	--	14				3.04	3.11	0.85	0.022	0.009
6-Aug	9.1	<0.01	0.030	0.21	--	--	17				3.11	4.93	0.92	0.023	0.010
7-Aug	9.0	<0.01	0.030	0.21	--	--	18				4.93	2.65	1.05	0.024	0.010
8-Aug	9.0	<0.01	0.030	0.21	--	--	19				2.65	2.96	1.12	0.025	0.010
9-Aug	9.0	<0.01	0.030	0.21	0.31	--	20				2.96	2.78	1.19	0.027	0.011
10-Aug	9.0	<0.01	0.090	0.63	--	--	21				2.78	2.93	1.26	0.030	0.011
13-Aug	9.0	<0.01	0.030	0.21	--	--	24				2.93	3.31	1.33	0.032	0.012
14-Aug	8.9	<0.01	0.030	0.21	--	--	25				3.31	2.79	1.42	0.033	0.012
15-Aug	8.9	<0.01	0.030	0.21	--	--	26				2.79	3.14	1.49	0.034	0.012
16-Aug	9.1	<0.01	0.010	0.21	0.26	--	27				3.14	2.74	1.57	0.035	0.012
17-Aug	9.1	<0.01	0.030	0.63	--	--	28				2.74	2.87	1.64	0.039	0.012
20-Aug	9.1	<0.01	0.010	0.21	--	--	31				2.87	1.89	1.71	0.040	0.013
21-Aug	9.0	<0.01	0.010	0.21	--	--	32				1.89	1.67	1.76	0.041	0.013
22-Aug	8.9	<0.01	0.010	0.21	--	--	33				1.67	3.11	1.80	0.042	0.013
23-Aug	8.9	<0.01	0.010	0.21	0.36	--	34				3.11	2.24	1.88	0.044	0.013
24-Aug	8.9	<0.01	0.030	0.63	--	--	35				2.24	2.17	1.93	0.047	0.013
27-Aug	9.0	<0.01	0.010	0.21	--	--	38				2.17	0.55	1.99	0.049	0.013
28-Aug	9.1	<0.01	0.010	0.21	--	--	39				0.55	1.09	2.00	0.050	0.013
29-Aug	9.0	<0.01	0.010	0.21	0.31	--	40				1.09	0.83	2.03	0.051	0.013
31-Aug	9.1	<0.01	0.030	0.63	--	--	42				0.83	0.79	2.05	0.055	0.014
4-Sep	9.2	<0.01	0.010	0.21	--	--	46				0.79	3.06	2.07	0.056	0.014
6-Sep	8.9	<0.01	0.030	0.63	0.26	--	48				3.06	2.53	2.15	0.059	0.014
10-Sep	9.1	<0.01	0.010	0.21	--	--	52				2.53	2.57	2.21	0.061	0.014
12-Sep	9.0	<0.01	0.010	0.21	0.26	--	54				2.57	0.76	2.28	0.062	0.014
14-Sep	8.9	<0.01	0.030	0.63	--	--	56				0.76	1.68	2.30	0.066	0.014
19-Sep	9.0	<0.01	0.010	0.21	0.24	--	61				1.68	1.22	2.34	0.067	0.014
21-Sep	9.0	<0.01	0.030	0.63	--	--	63				1.22	1.87	2.37	0.070	0.015
24-Sep	9.0	<0.01	0.010	0.21	0.26	--	66				1.87	0.45	2.42	0.072	0.015
26-Sep	9.1	<0.01	0.010	0.21	--	--	68				0.45	1.48	2.43	0.073	0.015
2-Oct	9.0	<0.01	0.010	0.21	<0.10	--	74				1.48	1.80	2.47	0.074	0.015
8-Oct	9.0	<0.01	--	--	0.16	0.53	80				1.80	1.20	2.51	0.074	0.015
17-Oct	--	<0.01	--	--	--	--	89	3,000			0.00	0.00	2.59	0.074	0.015
1-Nov	--	<0.01	--	--	--	--	104	3,000			0.00	0.00	2.66	0.074	0.015
2-Nov	9.1	<0.01	--	--	0.26	--	105	500			0.00	3.03	2.67	0.074	0.015
5-Nov	9.0	<0.01	--	--	1.41	--	108	0			3.03	5.04	2.75	0.074	0.015
6-Nov	9.1	<0.01	--	--	0.1	--	109	420			5.04	3.08	2.89	0.074	0.015
7-Nov	9.1	<0.01	--	--	0.05	--	110	230			3.08	3.29	2.97	0.074	0.015
8-Nov	9.1	<0.01	--	--	0.05	--	111	900			3.29	2.66	3.08	0.074	0.015
9-Nov	8.9	<0.01	--	--	0.05	--	112	1,350			2.66	2.19	3.18	0.074	0.015

Table 6-76.
Eagle Gold Project
Hydrogen Peroxide Detoxification
KCA Test No. 63322

Date	pH	Free NaCN, gpL	35% H_2O_2, grams	CuN_2O_6 $5H_2O$, grams	WAD CN, mg/L	Total CN, mg/L	Detox Days	Water Added, mLs	Fe, mg/L	Cu, mg/L	Onflow Volume, L	Outflow Volume, L	Detox t_s/t_o	Cum. Cu, kg/MT	Cum. 100% H_2O_2, kg/MT
19-Jul	10.0	0.03	0.210	0.21	14.62	28.73	0		3.26	4.73	--	Start	--	0.001	0.002
20-Jul	10.2	0.03	0.630	0.63	--	--	1				--	0.67	--	0.005	0.007
23-Jul	10.0	0.01	0.210	0.21	--	--	4				0.67	6.30	0.02	0.006	0.009
24-Jul	10.0	<0.01	0.210	0.21	--	--	5				6.30	3.43	0.18	0.007	0.011
25-Jul	10.0	<0.01	0.210	0.21	--	--	6				3.43	2.69	0.26	0.008	0.013
26-Jul	9.7	<0.01	0.129	0.21	9.57	--	7				2.69	3.40	0.33	0.010	0.014
27-Jul	9.8	<0.01	0.387	0.63	--	--	8				3.40	2.36	0.42	0.013	0.018
30-Jul	9.7	<0.01	0.129	0.21	--	--	10				2.36	6.79	0.48	0.015	0.019
31-Jul	9.8	<0.01	0.129	0.21	--	--	11				6.79	2.67	0.65	0.016	0.020
1-Aug	9.7	<0.01	0.129	0.21	--	--	12				2.67	3.12	0.71	0.017	0.021
2-Aug	9.5	<0.01	0.120	0.21	9.04	--	13				3.12	2.92	0.79	0.018	0.022
3-Aug	9.5	<0.01	0.360	0.63	--	--	14				2.92	3.24	0.87	0.022	0.025
6-Aug	9.5	<0.01	0.120	0.21	--	--	17				3.24	6.50	0.95	0.023	0.026
7-Aug	9.5	<0.01	0.120	0.21	--	--	18				6.50	2.49	1.11	0.024	0.027
8-Aug	9.3	<0.01	0.120	0.21	--	--	19				2.49	2.95	1.18	0.025	0.028
9-Aug	9.3	<0.01	0.120	0.21	7.34	--	20				2.95	2.82	1.25	0.027	0.029
10-Aug	9.3	<0.01	0.360	0.63	--	--	21				2.82	2.89	1.32	0.030	0.033
13-Aug	9.3	<0.01	0.120	0.21	--	--	24				2.89	5.50	1.39	0.032	0.034
14-Aug	9.4	<0.01	0.120	0.21	--	--	25				5.50	2.03	1.53	0.033	0.035
15-Aug	9.3	<0.01	0.120	0.21	--	--	26				2.03	3.04	1.58	0.034	0.036
16-Aug	9.3	<0.01	0.210	0.21	6.4	--	27				3.04	2.53	1.66	0.035	0.038
17-Aug	9.3	<0.01	0.630	0.63	--	--	28				2.53	3.25	1.72	0.039	0.043
20-Aug	9.2	<0.01	0.210	0.21	--	--	31				3.25	5.03	1.81	0.040	0.045
21-Aug	9.2	<0.01	0.210	0.21	--	--	32				5.03	3.07	1.93	0.041	0.047
22-Aug	9.2	<0.01	0.210	0.21	--	--	33				3.07	2.77	2.01	0.042	0.049
23-Aug	9.1	<0.01	0.210	0.21	5.83	--	34				2.77	4.20	2.08	0.044	0.051
24-Aug	9.1	<0.01	0.630	0.63	--	--	35				4.20	4.22	2.19	0.047	0.056
27-Aug	9.1	<0.01	0.210	0.21	--	--	38				4.22	4.21	2.29	0.049	0.058
28-Aug	9.2	<0.01	0.210	0.21	--	--	39				4.21	3.86	2.40	0.050	0.060
29-Aug	9.0	<0.01	0.210	0.21	2.13	--	40				3.86	3.89	2.50	0.051	0.062
31-Aug	9.2	<0.01	0.630	0.63	--	--	42				3.89	4.93	2.60	0.055	0.067
4-Sep	9.1	<0.01	0.210	0.21	--	--	46				4.93	4.86	2.72	0.056	0.069
6-Sep	9.0	<0.01	0.630	0.63	1.04	--	48				4.86	4.31	2.84	0.059	0.075
10-Sep	9.0	<0.01	0.210	0.21	--	--	52				4.31	4.56	2.95	0.061	0.077
12-Sep	9.0	<0.01	0.210	0.21	0.88	--	54				4.56	4.32	3.07	0.062	0.078
14-Sep	8.9	<0.01	0.630	0.63	--	--	56				4.32	4.01	3.18	0.066	0.084
17-Sep	9.0	<0.01	0.210	0.21	0.73	--	59				4.01	4.09	3.28	0.067	0.086
19-Sep	9.0	<0.01	0.210	0.21	--	--	61				4.09	3.60	3.38	0.068	0.088
21-Sep	9.0	<0.01	0.630	0.63	--	--	63				3.60	3.81	3.47	0.072	0.093
24-Sep	9.0	<0.01	0.210	0.21	0.16	--	66				3.81	3.93	3.57	0.073	0.095
26-Sep	8.9	<0.01	0.210	0.21	--	--	68				3.93	3.56	3.67	0.074	0.097
2-Oct	8.9	<0.01	--	--	0.16	0.44	74				3.56	4.23	3.76	0.074	0.097
1-Nov	--	<0.01	--	--	--	--	104	3,000			0.00	0.00	3.83	0.074	0.097
2-Nov	9.2	<0.01	--	--	0.21	--	105	2,100			0.00	1.39	3.88	0.074	0.097
5-Nov	9.1	<0.01	--	--	0.62	--	108	0			1.39	4.32	3.92	0.074	0.097
6-Nov	9.1	<0.01	--	--	0.21	--	109	0			4.32	3.35	4.03	0.074	0.097
7-Nov	9.0	<0.01	--	--	0.10	--	110	650			3.35	2.87	4.13	0.074	0.097
8-Nov	9.0	<0.01	--	--	0.05	--	111	590			2.87	2.97	4.22	0.074	0.097
9-Nov	8.9	<0.01	--	--	0.05	--	112	770			2.97	2.77	4.31	0.074	0.097

Table 6-77.
Eagle Gold Project
KCA Test No. 63310
Hydrogen Peroxide Detoxification Solution Analyses

		63310 Detox Post Peroxide (2, Aug)	63310 Final Detox	63310 (29, Oct) Rinse D.I. Water	63310 (30, Oct) Rinse D.I. Water	63310 (31, Oct) Rinse D.I. Water	63310 Final Rinse (2, Nov) D.I. Water
	WET Lab No.:	1208037	1210173	1210590	1210590	1211029	1211030
	Report Date:	17-Aug-12	24-Oct-12	31-Oct-12	31-Oct-12	6-Nov-12	11-Nov-12
Constituent	**Unit**						
pH	pH Units	--	8.85	--	--	--	8.56
Acidity (Titrimetric)	mg/L as CaCO3	--	-104	--	--	--	-188
Bicarbonate (HCO3)	mg/L	--	690	--	--	--	550
Carbonate (CO3)	mg/L	--	58	--	--	--	14
Hydroxide (OH)	mg/L	--	<1.0	--	--	--	<1.0
Total Alkalinity	mg/L as CaCO3	--	660	--	--	--	470
Redox Potential	mV	--	250	--	--	--	280
Total Kjeldahl Nitrogen	mg/L	100	23	--	--	--	13
Total Nitrogen	mg/L	140	260	--	--	--	130
Total Dissolved Solids (TDS)	mg/L	--	4100	--	--	--	1600
Electrical Conductivity	µmhos/cm	--	5600	--	--	--	2400
Chloride	mg/L	--	45	--	--	--	9.1
Fluoride	mg/L	--	3.6	--	--	--	2.1
Sulfate	mg/L	--	1000	--	--	--	220
Nitrate Nitrogen	mg/L	32	250	--	--	--	110
Nitrite Nitrogen	mg/L	3.1	4.0	--	--	--	
Aluminum	mg/L	5.6	1.3	--	--	--	0.74
Barium	mg/L	0.068	0.038	--	--	--	0.016
Beryllium	mg/L	<0.0010	<0.0010	--	--	--	<0.0010
Bismuth	mg/L	<0.10	<0.10	--	--	--	<0.10
Boron	mg/L	0.19	0.18	--	--	--	0.11
Cadmium	mg/L	0.0012	<0.0010	--	--	--	<0.0010
Calcium	mg/L	17	14	--	--	--	6.7
Chromium	mg/L	0.0093	<0.0050	--	--	--	<0.0050
Cobalt	mg/L	0.41	0.57	--	--	--	0.10
Copper	mg/L	0.15	0.090	--	--	--	0.54
Gallium	mg/L	<0.10	<0.10	--	--	--	<0.10
Iron	mg/L	3.5	0.48	--	--	--	0.36
Lithium	mg/L	<0.10	<0.10	--	--	--	<0.10
Magnesium	mg/L	0.55	2.0	--	--	--	0.72
Manganese	mg/L	0.065	0.017	--	--	--	0.0093
Molybdenum	mg/L	0.18	0.27	--	--	--	0.059
Nickel	mg/L	<0.010	<0.010	--	--	--	<0.010
Phosphorus	mg/L	0.52	<0.50	--	--	--	<0.50
Potassium	mg/L	7.2	14	--	--	--	5.8
Scandium	mg/L	<0.10	<0.10	--	--	--	<0.10
Silver	mg/L	<0.0050	<0.0050	--	--	--	<0.0050
Sodium	mg/L	780	1200	--	--	--	500
Strontium	mg/L	0.25	0.46	--	--	--	0.15
Tin	mg/L	<0.10	<0.10	--	--	--	<0.10
Titanium	mg/L	0.25	<0.10	--	--	--	<0.10
Vanadium	mg/L	0.065	0.024	--	--	--	0.011
Zinc	mg/L	0.093	0.026	--	--	--	0.050
Mercury	mg/L	0.010	0.0057	--	--	--	0.0016
Antimony	mg/L	1.9	1.6	--	--	--	0.87
Arsenic	mg/L	18	5.4	--	--	--	4.1
Lead	mg/L	0.61	0.13	--	--	--	0.064
Selenium	mg/L	0.063	0.039	--	--	--	0.0085
Thallium	mg/L	<0.010	<0.0010	--	--	--	<0.0010
Anions	meq/L	--	53.4	--	--	--	22.3
Cations	meq/L	--	53.6	--	--	--	20.5
Error	%	--	<1.0	--	--	--	4.1
Cyanate	mg/L	140	19	--	--	--	7.1
Thiocyanate	mg/L	70	69	--	--	--	17
Ammonia, as Nitrogen	mg/L	99	26	2.3	2.4	1.1	0.95
Total Cyanide	mg/L	--	0.56	--	--	--	0.38
Cyanide, WAD	mg/L	--	0.13	--	--	--	0.047
Total Organic Carbon	mg/L	--	--	--	--	--	13.0

Table 6-78.
Eagle Gold Project
KCA Test No. 63313
Hydrogen Peroxide Detoxification Solution Analyses

		63313 Detox Post Peroxide (2, Aug)	63313 Final Detox	63313 (29, Oct) Rinse D.I. Water	63313 (30, Oct) Rinse D.I. Water	63313 (31, Oct) Rinse D.I. Water	63313 Final Rinse (2, Nov) D.I. Water
	WET Lab No.:	1208037	1210173	1210590	1210590	1211029	1211030
	Report Date:	17-Aug-12	24-Oct-12	31-Oct-12	31-Oct-12	6-Nov-12	11-Nov-12
Constituent	**Unit**						
pH	pH Units	--	9.12	--	--	--	8.80
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	-135
Bicarbonate (HCO3)	mg/L	--	710	--	--	--	530
Carbonate (CO3)	mg/L	--	110	--	--	--	33
Hydroxide (OH)	mg/L	--	<1.0	--	--	--	<1.0
Total Alkalinity	mg/L as CaCO3	--	770	--	--	--	490
Redox Potential	mV	--	--	--	--	--	280
Total Kjeldahl Nitrogen	mg/L	100	--	--	--	--	24
Total Nitrogen	mg/L	140	--	--	--	--	110
Total Dissolved Solids (TDS)	mg/L	--	--	--	--	--	1500
Electrical Conductivity	µmhos/cm	--	7600	--	--	--	2400
Chloride	mg/L	--	90	--	--	--	17
Fluoride	mg/L	--	3.6	--	--	--	3.1
Sulfate	mg/L	--	1400	--	--	--	310
Nitrate Nitrogen	mg/L	33	350	--	--	--	84
Nitrite Nitrogen	mg/L	1.9	0.61	--	--	--	
Aluminum	mg/L	5.9	0.93	--	--	--	0.88
Barium	mg/L	0.078	0.053	--	--	--	0.014
Beryllium	mg/L	<0.0010	<0.0010	--	--	--	<0.0010
Bismuth	mg/L	<0.10	<0.10	--	--	--	<0.10
Boron	mg/L	0.17	0.19	--	--	--	0.11
Cadmium	mg/L	0.0021	<0.0010	--	--	--	<0.0010
Calcium	mg/L	16	14	--	--	--	3.7
Chromium	mg/L	0.010	<0.0050	--	--	--	<0.0050
Cobalt	mg/L	0.42	0.66	--	--	--	0.13
Copper	mg/L	0.18	0.090	--	--	--	0.84
Gallium	mg/L	<0.10	<0.10	--	--	--	<0.10
Iron	mg/L	4.6	0.49	--	--	--	0.51
Lithium	mg/L	<0.10	<0.10	--	--	--	<0.10
Magnesium	mg/L	0.62	3.4	--	--	--	<0.50
Manganese	mg/L	0.085	0.015	--	--	--	0.011
Molybdenum	mg/L	0.20	0.32	--	--	--	0.071
Nickel	mg/L	<0.010	<0.010	--	--	--	<0.010
Phosphorus	mg/L	0.66	<0.50	--	--	--	<0.50
Potassium	mg/L	9.6	21	--	--	--	5.9
Scandium	mg/L	<0.10	<0.10	--	--	--	<0.10
Silver	mg/L	<0.0050	<0.0050	--	--	--	<0.0050
Sodium	mg/L	890	1800	--	--	--	480
Strontium	mg/L	0.25	0.63	--	--	--	<0.10
Tin	mg/L	<0.10	<0.10	--	--	--	<0.10
Titanium	mg/L	0.26	<0.10	--	--	--	<0.10
Vanadium	mg/L	0.083	0.024	--	--	--	0.026
Zinc	mg/L	0.14	0.031	--	--	--	0.027
Mercury	mg/L	0.0095	0.0040	--	--	--	<0.0010
Antimony	mg/L	2.0	2.0	--	--	--	0.91
Arsenic	mg/L	20	4.7	--	--	--	5.2
Lead	mg/L	0.62	0.081	--	--	--	0.073
Selenium	mg/L	0.067	0.044	--	--	--	0.020
Thallium	mg/L	<0.010	<0.0010	--	--	--	<0.0010
Anions	meq/L	--	72.2	--	--	--	22.9
Cations	meq/L	--	80.6	--	--	--	20.2
Error	%	--	5.5	--	--	--	6.2
Cyanate	mg/L	140	11	--	--	--	4.9
Thiocyanate	mg/L	68	93	--	--	--	20
Ammonia, as Nitrogen	mg/L	81	12	4.4	4.8	4.3	3.7
Total Cyanide	mg/L	--	--	--	--	--	1.1
Cyanide, WAD	mg/L	--	--	--	--	--	<0.025
Total Organic Carbon	mg/L	--	--	--	--	--	15.0

Table 6-79.
Eagle Gold Project
KCA Test No. 63316
Hydrogen Peroxide Detoxification Solution Analyses

		63316 Detox Post Peroxide (2, Aug)	63316 Final Detox	63316 (2, Nov) Rinse Mock Solution	63316 (5, Nov) Rinse Mock Solution	63316 (6, Nov) Rinse Mock Solution
	WET Lab No.:	1208037	1210173	1211029	1211083	1211083
	Report Date:	17-Aug-12	24-Oct-12	6-Nov-12	7-Nov-12	7-Nov-12
Constituent	**Unit**					
pH	pH Units	--	8.96	--	--	--
Acidity (Titrimetric)	mg/L as CaCO3	--	-111	--	--	--
Bicarbonate (HCO3)	mg/L	--	640	--	--	--
Carbonate (CO3)	mg/L	--	69	--	--	--
Hydroxide (OH)	mg/L	--	<1.0	--	--	--
Total Alkalinity	mg/L as CaCO3	--	640	--	--	--
Redox Potential	mV	--	180	--	--	--
Total Kjeldahl Nitrogen	mg/L	100	36	--	--	--
Total Nitrogen	mg/L	150	130	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	3900	--	--	--
Electrical Conductivity	µmhos/cm	--	5800	--	--	--
Chloride	mg/L	--	58	--	--	--
Fluoride	mg/L	--	4.3	--	--	--
Sulfate	mg/L	--	1200	--	--	--
Nitrate Nitrogen	mg/L	41	300	--	--	--
Nitrite Nitrogen	mg/L	2.0	5.1	--	--	--
Aluminum	mg/L	5.5	0.75	--	--	--
Barium	mg/L	0.079	0.027	--	--	--
Beryllium	mg/L	<0.0010	<0.0010	--	--	--
Bismuth	mg/L	<0.10	<0.10	--	--	--
Boron	mg/L	0.15	0.16	--	--	--
Cadmium	mg/L	0.0015	<0.0010	--	--	--
Calcium	mg/L	16	7.2	--	--	--
Chromium	mg/L	0.010	<0.0050	--	--	--
Cobalt	mg/L	0.40	0.48	--	--	--
Copper	mg/L	0.23	0.071	--	--	--
Gallium	mg/L	<0.10	<0.10	--	--	--
Iron	mg/L	3.9	0.43	--	--	--
Lithium	mg/L	<0.10	<0.10	--	--	--
Magnesium	mg/L	<2.5	1.6	--	--	--
Manganese	mg/L	0.068	0.011	--	--	--
Molybdenum	mg/L	0.18	0.24	--	--	--
Nickel	mg/L	<0.010	<0.010	--	--	--
Phosphorus	mg/L	0.70	<0.50	--	--	--
Potassium	mg/L	12	17	--	--	--
Scandium	mg/L	<0.10	<0.10	--	--	--
Silver	mg/L	<0.0050	<0.0050	--	--	--
Sodium	mg/L	880	1300	--	--	--
Strontium	mg/L	0.26	0.34	--	--	--
Tin	mg/L	<0.10	<0.10	--	--	--
Titanium	mg/L	0.27	<0.10	--	--	--
Vanadium	mg/L	0.096	0.029	--	--	--
Zinc	mg/L	0.13	0.017	--	--	--
Mercury	mg/L	0.0090	0.0041	--	--	--
Antimony	mg/L	2.0	1.7	--	--	--
Arsenic	mg/L	19	5.1	--	--	--
Lead	mg/L	0.57	0.054	--	--	--
Selenium	mg/L	0.062	0.038	--	--	--
Thallium	mg/L	<0.010	<0.0010	--	--	--
Anions	meq/L	--	61.1	--	--	--
Cations	meq/L	--	59.2	--	--	--
Error	%	--	1.6	--	--	--
Cyanate	mg/L	170	31	--	--	--
Thiocyanate	mg/L	66	59	--	--	--
Ammonia, as Nitrogen	mg/L	91	29	15	12	11
Total Cyanide	mg/L	--	--	--	--	--
Cyanide, WAD	mg/L	--	0.083	--	--	--
Silicon	mg/L	--	--	--	--	--
Uranium	mg/L	--	--	--	--	--

Table 6-80.
Eagle Gold Project
KCA Test No. 63316
Hydrogen Peroxide Detoxification Solution Analyses (continued)

		63316 (7, Nov) Rinse Mock Solution	63316 (8, Nov) Rinse Mock Solution	63316 (9, Nov) Rinse Mock Solution	63316 Final Rinse (9, Nov) Mock Solution
	WET Lab No.:	1211173	1211173	1211173	1211243
	Report Date:	12-Nov-12	12-Nov-12	12-Nov-12	28-Nov-12
Constituent	**Unit**				
pH	pH Units	--	--	--	8.68
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	-158
Bicarbonate (HCO3)	mg/L	--	--	--	680
Carbonate (CO3)	mg/L	--	--	--	36
Hydroxide (OH)	mg/L	--	--	--	<1.0
Total Alkalinity	mg/L as CaCO3	--	--	--	620
Redox Potential	mV	--	--	--	300
Total Kjeldahl Nitrogen	mg/L	--	--	--	30
Total Nitrogen	mg/L	--	--	--	31
Total Dissolved Solids (TDS)	mg/L	--	--	--	2800
Electrical Conductivity	µmhos/cm	--	--	--	4200
Chloride	mg/L	--	--	--	79
Fluoride	mg/L	--	--	--	2.2
Sulfate	mg/L	--	--	--	1000
Nitrate Nitrogen	mg/L	--	--	--	58
Nitrite Nitrogen	mg/L	--	--	--	1.8
Aluminum	mg/L	--	--	--	1.7
Barium	mg/L	--	--	--	0.040
Beryllium	mg/L	--	--	--	<0.0004
Bismuth	mg/L	--	--	--	<0.075
Boron	mg/L	--	--	--	0.11
Cadmium	mg/L	--	--	--	<0.0002
Calcium	mg/L	--	--	--	24
Chromium	mg/L	--	--	--	0.0026
Cobalt	mg/L	--	--	--	0.095
Copper	mg/L	--	--	--	2.9
Gallium	mg/L	--	--	--	<0.020
Iron	mg/L	--	--	--	0.92
Lithium	mg/L	--	--	--	0.02
Magnesium	mg/L	--	--	--	1.2
Manganese	mg/L	--	--	--	0.028
Molybdenum	mg/L	--	--	--	0.068
Nickel	mg/L	--	--	--	0.004
Phosphorus	mg/L	--	--	--	0.57
Potassium	mg/L	--	--	--	12
Scandium	mg/L	--	--	--	0.0010
Silver	mg/L	--	--	--	0.0008
Sodium	mg/L	--	--	--	1000
Strontium	mg/L	--	--	--	0.43
Tin	mg/L	--	--	--	<0.010
Titanium	mg/L	--	--	--	0.04
Vanadium	mg/L	--	--	--	0.034
Zinc	mg/L	--	--	--	0.087
Mercury	mg/L	--	--	--	<0.0007
Antimony	mg/L	--	--	--	0.99
Arsenic	mg/L	--	--	--	7.3
Lead	mg/L	--	--	--	0.18
Selenium	mg/L	--	--	--	0.019
Thallium	mg/L	--	--	--	<0.0002
Anions	meq/L	--	--	--	--
Cations	meq/L	--	--	--	--
Error	%	--	--	--	--
Cyanate	mg/L	--	--	--	2.5
Thiocyanate	mg/L	--	--	--	18
Ammonia, as Nitrogen	mg/L	5.2	5.9	5.9	13
Total Cyanide	mg/L	--	--	--	0.60
Cyanide, WAD	mg/L	--	--	--	0.040
Silicon	mg/L	--	--	--	17
Uranium	mg/L	--	--	--	0.24

Table 6-81.
Eagle Gold Project
KCA Test No. 63322
Hydrogen Peroxide Detoxification Solution Analyses

Constituent	Unit	63322 Detox Post Peroxide (2, Aug)	63322 Final Detox	63322 (2, Nov) Rinse Mock Solutiion	63322 (5, Nov) Rinse Mock Solutiion	63322 (6, Nov) Rinse Mock Solutiion
	WET Lab No.:	1208037	1210042	1211029	1211083	1211083
	Report Date:	17-Aug-12	24-Oct-12	6-Nov-12	7-Nov-12	7-Nov-12
Constituent	**Unit**					
pH	pH Units	--	8.80	--	--	--
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	--	590	--	--	--
Carbonate (CO3)	mg/L	--	32	--	--	--
Hydroxide (OH)	mg/L	--	<1.0	--	--	--
Total Alkalinity	mg/L as CaCO3	--	540	--	--	--
Redox Potential	mV	--	--	--	--	--
Total Kjeldahl Nitrogen	mg/L	85	100	--	--	--
Total Nitrogen	mg/L	130	310	--	--	--
Total Dissolved Solids (TDS)	mg/L	--	3500	--	--	--
Electrical Conductivity	µmhos/cm	--	--	--	--	--
Chloride	mg/L	--	560	--	--	--
Fluoride	mg/L	--	1.8	--	--	--
Sulfate	mg/L	--	470	--	--	--
Nitrate Nitrogen	mg/L	36	240	--	--	--
Nitrite Nitrogen	mg/L	4.1		--	--	--
Aluminum	mg/L	1.4	0.15	--	--	--
Barium	mg/L	0.025	0.022	--	--	--
Beryllium	mg/L	<0.0010	<0.0010	--	--	--
Bismuth	mg/L	<0.10	<0.10	--	--	--
Boron	mg/L	0.22	0.25	--	--	--
Cadmium	mg/L	<0.0010	<0.0010	--	--	--
Calcium	mg/L	11	11	--	--	--
Chromium	mg/L	0.0055	<0.0050	--	--	--
Cobalt	mg/L	0.18	0.19	--	--	--
Copper	mg/L	7.0	0.078	--	--	--
Gallium	mg/L	<0.10	<0.10	--	--	--
Iron	mg/L	1.2	0.16	--	--	--
Lithium	mg/L	0.12	0.22	--	--	--
Magnesium	mg/L	0.58	3.7	--	--	--
Manganese	mg/L	0.016	<0.0050	--	--	--
Molybdenum	mg/L	0.10	0.12	--	--	--
Nickel	mg/L	0.18	<0.010	--	--	--
Phosphorus	mg/L	0.56	<0.50	--	--	--
Potassium	mg/L	9.3	16	--	--	--
Scandium	mg/L	<0.10	<0.10	--	--	--
Silver	mg/L	0.0053	<0.0050	--	--	--
Sodium	mg/L	860	1500	--	--	--
Strontium	mg/L	0.20	0.40	--	--	--
Tin	mg/L	<0.10	<0.10	--	--	--
Titanium	mg/L	<0.10	<0.10	--	--	--
Vanadium	mg/L	0.058	0.016	--	--	--
Zinc	mg/L	0.067	<0.010	--	--	--
Mercury	mg/L	0.0073	0.0023	--	--	--
Antimony	mg/L	0.74	0.63	--	--	--
Arsenic	mg/L	11	2.7	--	--	--
Lead	mg/L	0.19	0.018	--	--	--
Selenium	mg/L	0.045	<0.0050	--	--	--
Thallium	mg/L	<0.010	<0.0010	--	--	--
Anions	meq/L	--	53.6	--	--	--
Cations	meq/L	--	71.9	--	--	--
Error	%	--	15	--	--	--
Cyanate	mg/L	170	170	--	--	--
Thiocyanate	mg/L	82	45	--	--	--
Ammonia, as Nitrogen	mg/L	81	97	49	14	15
Total Cyanide	mg/L	--	0.38	--	--	--
Cyanide, WAD	mg/L	--	0.19	--	--	--
Silicon	mg/L	--	--	--	--	--
Uranium	mg/L	--	--	--	--	--

Table 6-82.
Eagle Gold Project
KCA Test No. 63322
Hydrogen Peroxide Detoxification Solution Analyses (continued)

Constituent	Unit	63322 (7, Nov) Rinse Mock Solutiion	63322 (8, Nov) Rinse Mock Solutiion	63322 (9, Nov) Rinse Mock Solutiion	63322 Final Rinse (9, Nov) Mock Solution
	WET Lab No.:	1211173	1211173	1211173	1211243
	Report Date:	12-Nov-12	12-Nov-12	12-Nov-12	28-Nov-12
Constituent	**Unit**				
pH	pH Units	--	--	--	8.77
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	-179
Bicarbonate (HCO3)	mg/L	--	--	--	740
Carbonate (CO3)	mg/L	--	--	--	50
Hydroxide (OH)	mg/L	--	--	--	<1.0
Total Alkalinity	mg/L as CaCO3	--	--	--	690
Redox Potential	mV	--	--	--	250
Total Kjeldahl Nitrogen	mg/L	--	--	--	29
Total Nitrogen	mg/L	--	--	--	31
Total Dissolved Solids (TDS)	mg/L	--	--	--	2900
Electrical Conductivity	µmhos/cm	--	--	--	4500
Chloride	mg/L	--	--	--	160
Fluoride	mg/L	--	--	--	1.5
Sulfate	mg/L	--	--	--	1000
Nitrate Nitrogen	mg/L	--	--	--	33
Nitrite Nitrogen	mg/L	--	--	--	1.8
Aluminum	mg/L	--	--	--	0.94
Barium	mg/L	--	--	--	0.035
Beryllium	mg/L	--	--	--	<0.0004
Bismuth	mg/L	--	--	--	<0.075
Boron	mg/L	--	--	--	0.20
Cadmium	mg/L	--	--	--	<0.0002
Calcium	mg/L	--	--	--	31
Chromium	mg/L	--	--	--	0.0030
Cobalt	mg/L	--	--	--	0.043
Copper	mg/L	--	--	--	1.3
Gallium	mg/L	--	--	--	<0.020
Iron	mg/L	--	--	--	0.78
Lithium	mg/L	--	--	--	0.19
Magnesium	mg/L	--	--	--	3.6
Manganese	mg/L	--	--	--	0.030
Molybdenum	mg/L	--	--	--	0.024
Nickel	mg/L	--	--	--	0.009
Phosphorus	mg/L	--	--	--	0.32
Potassium	mg/L	--	--	--	12
Scandium	mg/L	--	--	--	<0.0010
Silver	mg/L	--	--	--	0.0027
Sodium	mg/L	--	--	--	1000
Strontium	mg/L	--	--	--	0.57
Tin	mg/L	--	--	--	<0.010
Titanium	mg/L	--	--	--	0.02
Vanadium	mg/L	--	--	--	0.021
Zinc	mg/L	--	--	--	0.075
Mercury	mg/L	--	--	--	<0.0007
Antimony	mg/L	--	--	--	0.47
Arsenic	mg/L	--	--	--	3.3
Lead	mg/L	--	--	--	0.090
Selenium	mg/L	--	--	--	0.010
Thallium	mg/L	--	--	--	<0.0002
Anions	meq/L	--	--	--	--
Cations	meq/L	--	--	--	--
Error	%	--	--	--	--
Cyanate	mg/L	--	--	--	28
Thiocyanate	mg/L	--	--	--	9.0
Ammonia, as Nitrogen	mg/L	1.5	<1.2	<1.2	13
Total Cyanide	mg/L	--	--	--	0.34
Cyanide, WAD	mg/L	--	--	--	0.090
Silicon	mg/L	--	--	--	16
Uranium	mg/L	--	--	--	0.17

Table 6-83.
Eagle Gold Project
Tetra Tech Composite Solution Analyses

		KCA Sample No. 63593
	WET Lab No.:	1212326
	Report Date:	20-Dec-12
Constituent	**Unit**	
Cyanate	mg/L	0.71
Thiocyanate	mg/L	1.6
Ammonia, as Nitrogen	mg/L	0.87
pH	pH Units	5.87
Acidity (Titrimetric)	mg/L as CaCO3	10
Bicarbonate (HCO3)	mg/L	1.7
Carbonate (CO3)	mg/L	<1.0
Hydroxide (OH)	mg/L	<1.0
Total Alkalinity	mg/L as CaCO3	1.4
Redox Potential	mV	490
Total Phosphorous as P	mg/L	0.021
Chloride	mg/L	1600
Fluoride	mg/L	<1.0
Sulfate	mg/L	280
Nitrate Nitrogen	mg/L	18
Nitrite Nitrogen	mg/L	<0.25
Total Kjeldahl Nitrogen	mg/L	4.8
Total Dissolved Solids (TDS)	mg/L	3200
WAD Cyanide	mg/L	<0.010
Electrical Conductivity	µmhos/cm	5900
Aluminum	mg/L	<0.045
Barium	mg/L	<0.010
Beryllium	mg/L	<0.0010
Bismuth	mg/L	<0.10
Boron	mg/L	0.12
Cadmium	mg/L	<0.0010
Calcium	mg/L	150
Chromium	mg/L	<0.0050
Cobalt	mg/L	<0.010
Copper	mg/L	<0.050
Gallium	mg/L	<0.10
Iron	mg/L	0.021
Lithium	mg/L	<0.10
Magnesium	mg/L	4.9
Manganese	mg/L	<0.0050
Molybdenum	mg/L	<0.010
Nickel	mg/L	0.023
Potassium	mg/L	8.9
Scandium	mg/L	<0.10
Silver	mg/L	<0.0050
Sodium	mg/L	1100
Strontium	mg/L	0.11
Tin	mg/L	<0.10
Titanium	mg/L	<0.10
Vanadium	mg/L	<0.010
Zinc	mg/L	0.018
Mercury	mg/L	<0.00010
Antimony	mg/L	0.0058
Arsenic	mg/L	0.0071
Lead	mg/L	<0.0025
Selenium	mg/L	<0.0050
Thallium	mg/L	<0.0010
Uranium	mg/L	<0.0050

Table 6-84.
Eagle Gold Project
KCA Mock Solution Generation

Mock Solution - Chemical Additions			
Salt Type	Target Concentration, mg/L	Total Solution Volume, (D.I. Water) L	Salt Added, gms
NaCl	106	100	10.637
Na_2SO_4	1922	100	192.184
$NaHCO_3$	964	100	96.356
$CaCl_2$	55	100	5.549

Table 6-85.
Eagle Gold Project
Summary of Mock Solution Analyses

	Target, mg/L	WETLAB Reported, mg/L	SEM Reported, mg/L
Cl	100	91	94
SO_4	1300	600	800
Ca	20	18	20
Na	928	460	700
HCO_3	700	450	561
Anions	41.4	22.5	--
Cations	41.4	20	--
TDS	3048	1500	1800

Note: KCA total salt added (3047 mg/L)

Table 6-86.
Eagle Gold Project
Mock Solution Analyses

WETLAB Analyses		
		KCA Sample No. 65907
	Report No.:	WETLAB: 1211030
	Report Date:	11-Nov-12
Constituent	**Unit**	
Cyanate	mg/L	4.4
Thiocyanate	mg/L	3.7
Ammonia, as Nitrogen	mg/L	0.24
pH	pH Units	8.25
Acidity (Titrimetric)	mg/L as CaCO3	-88
Bicarbonate (HCO3)	mg/L	450
Carbonate (CO3)	mg/L	<1.0
Hydroxide (OH)	mg/L	<1.0
Total Alkalinity	mg/L as CaCO3	370
Redox Potential	mV	220
Chloride	mg/L	91
Fluoride	mg/L	<1.0
Sulfate	mg/L	600
Nitrate + Nitrite Nitrogen	mg/L	1.1
Total Kjeldahl Nitrogen	mg/L	<0.50
Total Nitrogen	mg/L	<1.1
Total Cyanide	mg/L	<0.010
Total Dissolved Solids (TDS)	mg/L	1500
Electrical Conductivity	µmhos/cm	2300
Aluminum, Dissolved	mg/L	<0.045
Barium, Dissolved	mg/L	<0.010
Beryllium, Dissolved	mg/L	<0.0010
Bismuth, Dissolved	mg/L	<0.10
Boron, Dissolved	mg/L	<0.10
Calcium, Dissolved	mg/L	18
Chromium, Dissolved	mg/L	<0.0050
Cobalt, Dissolved	mg/L	<0.010
Gallium, Dissolved	mg/L	<0.10
Iron, Dissolved	mg/L	<0.010
Lithium, Dissolved	mg/L	<0.10
Magnesium, Dissolved	mg/L	<0.50
Manganese, Dissolved	mg/L	<0.0050
Molybdenum, Dissolved	mg/L	<0.010
Nickel, Dissolved	mg/L	<0.010
Phosphorus, Dissolved	mg/L	<0.50
Potassium, Dissolved	mg/L	<0.50
Scandium, Dissolved	mg/L	<0.10
Silver, Dissolved	mg/L	<0.0050
Sodium, Dissolved	mg/L	460
Strontium, Dissolved	mg/L	<0.10
Tin, Dissolved	mg/L	<0.10
Titanium, Dissolved	mg/L	<0.10
Vanadium, Dissolved	mg/L	<0.010
Zinc, Dissolved	mg/L	<0.010
Mercury, Dissolved	mg/L	<0.00010
Antimony, Dissolved	mg/L	0.010
Arsenic, Dissolved	mg/L	0.067
Cadmium, Dissolved	mg/L	<0.0010
Copper, Dissolved	mg/L	0.12
Lead, Dissolved	mg/L	0.0032
Selenium, Dissolved	mg/L	<0.0050
Thallium, Dissolved	mg/L	<0.0010
Anions	meq/L	22.5
Cations	meq/L	20.0
Error	%	5.8
Total Organic Carbon (TOC)	mg/L	3.0
WAD Cyanide	mg/L	<0.025

SEM Analyses		
		KCA Sample No. 65907
	Report No.:	SEM: 124853
	Report Date:	4-Dec-12
Constituent	**Unit**	
Alkalinity, Total	mg/L CaCO3	470
Alkalinity/Bicarbonate	mg/L CaCO3	460
Alkalinity/Carbonate	mg/L CaCO3	10
Alkalinity/Hydroxide	mg/L CaCO3	<2
Aluminum - ICP-OES	mg/L	<0.05
Ammonia-N	mg/L N	<0.1
Antimony - ICP-MS	mg/L	<0.004
Arsenic - ICP-MS	mg/L	<0.004
Barium - ICP-MS	mg/L	<0.004
Beryllium - ICP-MS	mg/L	<0.004
Bismuth - ICP-OES	mg/L	<0.1
Boron - ICP-OES	mg/L	<0.05
Cadmium - ICP-MS	mg/L	<0.004
Calcium - ICP-OES	mg/L	20
Chloride - Ion Chrom.	mg/L	94
Chromium - ICP-MS	mg/L	<0.004
Cobalt - ICP-MS	mg/L	<0.004
Copper - ICP-MS	mg/L	<0.004
Cyanate - Ion Chrom.	mg/L	<2.5
Fluoride - Ion Chrom.	mg/L	<0.1
Gallium - ICP-OES	mg/L	<0.1
Iron - ICP-OES	mg/L	<0.05
Lanthanum - ICP-OES	mg/L	<0.05
Lead - ICP-MS	mg/L	<0.004
Lithium - ICP-OES	mg/L	<0.1
Magnesium - ICP-OES	mg/L	<0.5
Manganese - ICP-MS	mg/L	<0.004
Mercury - AA Cold Vapor	mg/L	<0.0002
Molybdenum - ICP-MS	mg/L	<0.004
Nickel - ICP-MS	mg/L	<0.004
Nitrate-N - Ion Chrom.	mg/L N	<0.05
pH	pH Units	8.36
pH - Temperature	℃	20.3
Phosphorus - total	mg/L	<0.02
Potassium - ICP-OES	mg/L	<0.5
Scandium - ICP-OES	mg/L	<0.05
Selenium - ICP-MS	mg/L	<0.02
Silver - ICP-MS	mg/L	<0.004
Sodium - ICP-OES	mg/L	700
Strontium - ICP-OES	mg/L	<0.05
Sulfate - Ion Chrom.	mg/L	800
Thallium - ICP-MS	mg/L	<0.002
Thiocyanate	mg/L	<0.5
Tin - ICP-OES	mg/L	<0.1
Titanium - ICP-OES	mg/L	<0.05
Total Dissolved Solids	mg/L	1800
Vanadium - ICP-MS	mg/L	<0.004
Zinc - ICP-MS	mg/L	0.05

6.5 Humidity Cell Test Work

Humidity cell test work was conducted on the detoxified tailings material from select column leach tests (KCA Test Nos. 63301, 63310, 63313, 63316 and 63322).

The procedure utilized for the humidity cell test work was modified from the ASTM standard procedure (D-5744). Each test was conducted in the original leach test column (152 millimeter diameter) utilizing the entire amount of detoxified sample material (39.20 to 39.40 kilograms). The top of each column was covered loosely to prevent excessive loss of moist air. The material in each column (p80 6.3 millimeters) was not flooded and drained according to standard ASTM procedure; instead solution was applied to the top of each column and allowed to percolate through the sample material.

A summary of the humidity cell tests is presented in Table 6-87.

Table 6-87.
Eagle Gold Project
Summary of Humidity Cell Tests

KCA Sample No.	KCA Test No.	Description	Detox Type	Test Temp., °C	Date Started	Date Ended	Total Days
48158	63301	Env. Comp. (Detoxified Tailings)	Bacterial	22	3-Dec-12	16-Sep-13	287
48158	63310	Env. Comp. (Detoxified Tailings)	Hydrogen Peroxide	22	11-Nov-12	7-Dec-12	26
48158	63313	Env. Comp. (Detoxified Tailings)	Hydrogen Peroxide	22	11-Nov-12	7-Dec-12	26
48158	63316	Env. Comp. (Detoxified Tailings)	Hydrogen Peroxide	22	17-Nov-12	16-Sep-13	303
48158	63322	Env. Comp. (Detoxified Tailings)	Hydrogen Peroxide	3	17-Nov-12	16-Sep-13	303

Each humidity cell test was conducted and sampled in weekly cycles. For each weekly cycle, moist air (30°C) was first pumped up through the detoxified tailings material for a period of four (4) days at a target rate of 5 liters per minute. The moist air was then stopped, and distilled water was applied to the top of the column with a peristaltic pump for one day and then allowed to drain down for two (2) days. The moist air was then started again for the next weekly cycle.

For the first two (2) weekly cycles, a total of 5 liters of distilled water was applied to the humidity cell column over a 24 hour period. The following weekly cycles utilized a total of 3 liters of distilled water applied over a 24 hour period.

A total of two (2) liters of the drain down solution was sampled at the end of each weekly cycle and submitted to WETLAB for a Profile II analysis. The solution submitted to WETLAB consisted of one liter of "raw" solution, and one liter of solution preserved with NaOH. The remainder of the drain down solution was stored.

From 6 May 2013 to the end of each test, samples were submitted to WETLAB for Profile II analysis every other week. The weekly samples not submitted for analysis were stored at KCA.

At the end of each humidity cell test, the solution was allowed to drain and the tailings material was prepared for analyses.

For select humidity cell tests (KCA Test Nos. 63301, 63316 and 63322), the tailings material was sampled in 20 centimeter intervals (from the top down) utilizing a clean vacuum apparatus. The interval samples were individually bagged, sealed and labeled. On 21 October 2013 the interval tailings material was shipped to SGS Mineral Services in Burnaby, Canada for analyses. The test work conducted by SGS Mineral Services is not included in this report.

For the remaining humidity cell tests (KCA Test Nos. 63310 and 63313), the tailings material was utilized for a tail screen analysis with assays by size fraction and compacted permeability test work.

Summaries of the sampled solutions from each humidity cell test are presented in Tables 6-88 through 6-92.

The individual results from the Profile II analyses are presented in Tables 6-93 through 6-108.

Table 6-88.
Eagle Gold Project
KCA Test No. 63301
Humidity Cell Test
Summary of Sampled Solutions

KCA Test No.	Solution Description	Sample Date	Solution Type	WETLAB Job No.	Notes
63301	Weekly HCT	10-Dec-12	Raley's D.I. Water	1212169	Profile ll suite.
63301	Weekly HCT	17-Dec-12	Raley's D.I. Water	1212310	Profile ll suite.
63301	Weekly HCT	24-Dec-12	Raley's D.I. Water	1212518	Profile ll suite.
63301	Weekly HCT	31-Dec-12	Raley's D.I. Water	1301003	Profile ll suite.
63301	Weekly HCT	7-Jan-13	Raley's D.I. Water	1301079	Profile ll suite.
63301	Weekly HCT	14-Jan-13	Raley's D.I. Water	1301186	Profile ll suite.
63301	Weekly HCT	21-Jan-13	Raley's D.I. Water	1301295	Profile ll suite.
63301	Weekly HCT	28-Jan-13	Raley's D.I. Water	1301402	Profile ll suite.
63301	Weekly HCT	4-Feb-13	Raley's D.I. Water	1302024	Profile ll suite.
63301	Weekly HCT	11-Feb-13	Raley's D.I. Water	1302163	Profile ll suite.
63301	Weekly HCT	18-Feb-13	Raley's D.I. Water	1302292	Profile ll suite.
63301	Weekly HCT	25-Feb-13	Raley's D.I. Water	1302382	Profile ll suite.
63301	Weekly HCT	4-Mar-13	Raley's D.I. Water	1303031	Profile ll suite.
63301	Weekly HCT	11-Mar-13	Raley's D.I. Water	1303185	Profile ll suite.
63301	Weekly HCT	18-Mar-13	Raley's D.I. Water	1303326	Profile ll suite.
63301	Weekly HCT	25-Mar-13	Raley's D.I. Water	1303472	Profile ll suite.
63301	Weekly HCT	1-Apr-13	Raley's D.I. Water	1304011	Profile ll suite.
63301	Weekly HCT	8-Apr-13	Raley's D.I. Water	1304141	Profile ll suite.
63301	Weekly HCT	15-Apr-13	Raley's D.I. Water	1304261	Profile ll suite.
63301	Weekly HCT	22-Apr-13	Raley's D.I. Water	1304391	Profile ll suite.
63301	Bi-weekly HCT	6-May-13	Raley's D.I. Water	1305109	Profile ll suite.
63301	Bi-weekly HCT	20-May-13	Raley's D.I. Water	1305401	Profile ll suite.
63301	Bi-weekly HCT	3-Jun-13	Raley's D.I. Water	1306005	Profile ll suite.
63301	Bi-weekly HCT	17-Jun-13	Raley's D.I. Water	1306373	Profile ll suite.
63301	Bi-weekly HCT	1-Jul-13	Raley's D.I. Water	1307018	Profile ll suite.
63301	Bi-weekly HCT	15-Jul-13	Raley's D.I. Water	1307323	Profile ll suite.
63301	Bi-weekly HCT	29-Jul-13	Raley's D.I. Water	1307665	Profile ll suite.
63301	Bi-weekly HCT	12-Aug-13	Raley's D.I. Water	1308215	Profile ll suite.
63301	Bi-weekly HCT	26-Aug-13	Raley's D.I. Water	1308505	Profile ll suite.
63301	Bi-weekly HCT	9-Sep-13	Raley's D.I. Water	1309142	Profile ll suite. End HCT

Table 6-89.
Eagle Gold Project
KCA Test No. 63310
Humidity Cell Test
Summary of Sampled Solutions

KCA Test No.	Solution Description	Sample Date	Solution Type	WETLAB Job No.	Notes
63310	Weekly HCT	13-Nov-12	Raley's D.I. Water	1211242	Profile ll suite.
63310	Weekly HCT	19-Nov-12	Raley's D.I. Water	1211340	Profile ll suite.
63310	Weekly HCT	26-Nov-12	Raley's D.I. Water	1211413	Profile ll suite.
63310	Weekly HCT	3-Dec-12	Raley's D.I. Water	1212011	Profile ll suite. End HCT

Table 6-90.
Eagle Gold Project
KCA Test No. 63313
Humidity Cell Test
Summary of Sampled Solutions

KCA Test No.	Solution Description	Sample Date	Solution Type	WETLAB Job No.	Notes
63313	Weekly HCT	13-Nov-12	Raley's D.I. Water	1211242	Profile ll suite.
63313	Weekly HCT	19-Nov-12	Raley's D.I. Water	1211340	Profile ll suite.
63313	Weekly HCT	26-Nov-12	Raley's D.I. Water	1211413	Profile ll suite.
63313	Weekly HCT	3-Dec-12	Raley's D.I. Water	1212011	Profile ll suite. End HCT

Table 6-91.
Eagle Gold Project
KCA Test No. 63316
Humidity Cell Test
Summary of Sampled Solutions

KCA Test No.	Solution Description	Sample Date	Solution Type	WETLAB Job No.	Notes
63316	Weekly HCT	19-Nov-12	Raley's D.I. Water	1211340	Profile ll suite.
63316	Weekly HCT	26-Nov-12	Raley's D.I. Water	1211413	Profile ll suite.
63316	Weekly HCT	3-Dec-12	Raley's D.I. Water	1212011	Profile ll suite.
63316	Weekly HCT	10-Dec-12	Raley's D.I. Water	1212169	Profile ll suite.
63316	Weekly HCT	17-Dec-12	Raley's D.I. Water	1212310	Profile ll suite.
63316	Weekly HCT	24-Dec-12	Raley's D.I. Water	1212518	Profile ll suite.
63316	Weekly HCT	31-Dec-12	Raley's D.I. Water	1301003	Profile ll suite.
63316	Weekly HCT	7-Jan-13	Raley's D.I. Water	1301079	Profile ll suite.
63316	Weekly HCT	14-Jan-13	Raley's D.I. Water	1301186	Profile ll suite.
63316	Weekly HCT	21-Jan-13	Raley's D.I. Water	1301295	Profile ll suite.
63316	Weekly HCT	28-Jan-13	Raley's D.I. Water	1301402	Profile ll suite.
63316	Weekly HCT	4-Feb-13	Raley's D.I. Water	1302024	Profile ll suite.
63316	Weekly HCT	11-Feb-13	Raley's D.I. Water	1302163	Profile ll suite.
63316	Weekly HCT	18-Feb-13	Raley's D.I. Water	1302292	Profile ll suite.
63316	Weekly HCT	25-Feb-13	Raley's D.I. Water	1302382	Profile ll suite.
63316	Weekly HCT	4-Mar-13	Raley's D.I. Water	1303031	Profile ll suite.
63316	Weekly HCT	11-Mar-13	Raley's D.I. Water	1303185	Profile ll suite.
63316	Weekly HCT	18-Mar-13	Raley's D.I. Water	1303326	Profile ll suite.
63316	Weekly HCT	25-Mar-13	Raley's D.I. Water	1303472	Profile ll suite.
63316	Weekly HCT	1-Apr-13	Raley's D.I. Water	1304011	Profile ll suite.
63316	Weekly HCT	8-Apr-13	Raley's D.I. Water	1304141	Profile ll suite.
63316	Weekly HCT	15-Apr-13	Raley's D.I. Water	1304261	Profile ll suite.
63316	Weekly HCT	22-Apr-13	Raley's D.I. Water	1304391	Profile ll suite.
63316	Bi-weekly HCT	6-May-13	Raley's D.I. Water	1305109	Profile ll suite.
63316	Bi-weekly HCT	20-May-13	Raley's D.I. Water	1305401	Profile ll suite.
63316	Bi-weekly HCT	3-Jun-13	Raley's D.I. Water	1306005	Profile ll suite.
63316	Bi-weekly HCT	17-Jun-13	Raley's D.I. Water	1306373	Profile ll suite.
63316	Bi-weekly HCT	1-Jul-13	Raley's D.I. Water	1307018	Profile ll suite.
63316	Bi-weekly HCT	15-Jul-13	Raley's D.I. Water	1307323	Profile ll suite.
63316	Bi-weekly HCT	29-Jul-13	Raley's D.I. Water	1307665	Profile ll suite.
63316	Bi-weekly HCT	12-Aug-13	Raley's D.I. Water	1308215	Profile ll suite.
63316	Bi-weekly HCT	26-Aug-13	Raley's D.I. Water	1308505	Profile ll suite.
63316	Bi-weekly HCT	9-Sep-13	Raley's D.I. Water	1309142	Profile ll suite. End HCT

Table 6-92.
Eagle Gold Project
KCA Test No. 63322
Humidity Cell Test
Summary of Sampled Solutions

KCA Test No.	Solution Description	Sample Date	Solution Type	WETLAB Job No.	Notes
63322	Weekly HCT	19-Nov-12	Raley's D.I. Water	1211340	Profile ll suite.
63322	Weekly HCT	26-Nov-12	Raley's D.I. Water	1211413	Profile ll suite.
63322	Weekly HCT	10-Dec-12	Raley's D.I. Water	1212169	Profile ll suite.
63322	Weekly HCT	17-Dec-12	Raley's D.I. Water	1212310	Profile ll suite.
63322	Weekly HCT	24-Dec-12	Raley's D.I. Water	1212518	Profile ll suite.
63322	Weekly HCT	31-Dec-12	Raley's D.I. Water	1301003	Profile ll suite.
63322	Weekly HCT	7-Jan-13	Raley's D.I. Water	1301079	Profile ll suite.
63322	Weekly HCT	14-Jan-13	Raley's D.I. Water	1301186	Profile ll suite.
63322	Weekly HCT	21-Jan-13	Raley's D.I. Water	1301295	Profile ll suite.
63322	Weekly HCT	28-Jan-13	Raley's D.I. Water	1301402	Profile ll suite.
63322	Weekly HCT	4-Feb-13	Raley's D.I. Water	1302024	Profile ll suite.
63322	Weekly HCT	11-Feb-13	Raley's D.I. Water	1302163	Profile ll suite.
63322	Weekly HCT	18-Feb-13	Raley's D.I. Water	1302292	Profile ll suite.
63322	Weekly HCT	25-Feb-13	Raley's D.I. Water	1302382	Profile ll suite.
63322	Weekly HCT	4-Mar-13	Raley's D.I. Water	1303031	Profile ll suite.
63322	Weekly HCT	11-Mar-13	Raley's D.I. Water	1303185	Profile ll suite.
63322	Weekly HCT	18-Mar-13	Raley's D.I. Water	1303326	Profile ll suite.
63322	Weekly HCT	25-Mar-13	Raley's D.I. Water	1303472	Profile ll suite.
63322	Weekly HCT	1-Apr-13	Raley's D.I. Water	1304011	Profile ll suite.
63322	Weekly HCT	8-Apr-13	Raley's D.I. Water	1304141	Profile ll suite.
63322	Weekly HCT	15-Apr-13	Raley's D.I. Water	1304261	Profile ll suite.
63322	Weekly HCT	22-Apr-13	Raley's D.I. Water	1304391	Profile ll suite.
63322	Bi-weekly HCT	6-May-13	Raley's D.I. Water	1305109	Profile ll suite.
63322	Bi-weekly HCT	20-May-13	Raley's D.I. Water	1305401	Profile ll suite.
63322	Bi-weekly HCT	3-Jun-13	Raley's D.I. Water	1306005	Profile ll suite.
63322	Bi-weekly HCT	17-Jun-13	Raley's D.I. Water	1306373	Profile ll suite.
63322	Bi-weekly HCT	1-Jul-13	Raley's D.I. Water	1307018	Profile ll suite.
63322	Bi-weekly HCT	15-Jul-13	Raley's D.I. Water	1307323	Profile ll suite.
63322	Bi-weekly HCT	29-Jul-13	Raley's D.I. Water	1307665	Profile ll suite.
63322	Bi-weekly HCT	12-Aug-13	Raley's D.I. Water	1308215	Profile ll suite.
63322	Bi-weekly HCT	26-Aug-13	Raley's D.I. Water	1308505	Profile ll suite.
63322	Bi-weekly HCT	9-Sep-13	Raley's D.I. Water	1309142	Profile ll suite. End HCT

Table 6-93.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63301

		63301 (10, Dec) Humidity Cell	63301 (17, Dec) Humidity Cell	63301 (24, Dec) Humidity Cell	63301 (31, Dec) Humidity Cell	63301 (7, Jan) Humidity Cell	63301 (14, Jan) Humidity Cell	63301 (21, Jan) Humidity Cell
	WET Lab No.:	1212169	1212310	1212518	1301003	1301079	1301186	1301295
	Report Date:	26-Dec-12	28-Dec-12	4-Jan-13	10-Jan-13	15-Jan-13	22-Jan-13	28-Jan-13
Constituent	**Unit**							
pH	pH Units	8.71	8.77	8.86	8.70	8.71	8.76	8.76
Acidity (Titrimetric)	mg/L as CaCO3	-411	-106	-49	-75	-91	-79	-60
Bicarbonate (HCO3)	mg/L	380	470	540	550	490	490	490
Carbonate (CO3)	mg/L	19	34	40	28	28	35	20
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	340	450	510	490	450	460	440
Redox Potential	mV	220	190	180	220	240	270	280
Total Kjeldahl Nitrogen	mg/L	7.5	5.1	2.9	1.2	1.2	1.2	1.0
Total Nitrogen	mg/L	11	6.5	2.9	1.2	1.7	1.9	1.4
Total Dissolved Solids (TDS)	mg/L	1600	820	790	780	660	690	660
Electrical Conductivity	µmhos/cm	2400	1200	1200	1100	1000	1100	980
Chloride	mg/L	16	0.12	<1.0	<1.0	<0.10	<0.10	0.13
Fluoride	mg/L	3.9	2.9	2.7	2.1	1.6	1.4	1.3
Sulfate	mg/L	670	130	110	110	79	97	71
Nitrate Nitrogen	mg/L	0.60	1.1	0.84	0.45	0.41	0.67	0.35
Nitrite Nitrogen	mg/L	3.0	0.30	0.22	0.18	0.058	0.053	0.034
Aluminum	mg/L	5.4	6.3	4.4	4.1	3.1	3.5	2.7
Barium	mg/L	0.046	0.057	0.046	0.045	0.033	0.038	0.030
Beryllium	mg/L	0.0005	0.0011	0.0007	0.0004	0.0007	0.0006	<0.0002
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.12	0.09	0.09	0.078	0.10	0.071	0.059
Cadmium	mg/L	0.0011	0.0007	0.0003	0.0005	<0.0002	0.0004	<0.0002
Calcium	mg/L	9.9	7.2	8.0	8.1	5.8	6.8	6.2
Chromium	mg/L	0.0045	0.0066	0.0038	0.0031	0.0026	0.0025	0.0016
Cobalt	mg/L	0.12	0.019	0.008	0.005	0.004	0.004	0.003
Copper	mg/L	0.20	0.038	0.034	0.025	0.021	0.023	0.027
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	5.7	5.4	2.8	2.5	2.2	2.2	1.7
Lithium	mg/L	0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Magnesium	mg/L	2.0	1.5	0.91	0.90	0.68	0.70	0.61
Manganese	mg/L	0.070	0.12	0.080	0.077	0.058	0.060	0.048
Molybdenum	mg/L	0.093	0.029	0.024	0.021	0.014	0.017	0.012
Nickel	mg/L	0.0088	0.013	0.0073	0.0071	0.0056	0.0053	0.0044
Phosphorus	mg/L	1.2	1.4	1.2	1.0	0.93	1.1	0.91
Potassium	mg/L	8.6	4.7	4.6	4.3	3.9	4.1	3.7
Scandium	mg/L	0.00	<0.0010	<0.0010	0.00	<0.0010	<0.0010	<0.0010
Silicon	mg/L	28	28	25	24	20	23	19
Silver	mg/L	<0.0005	<0.0025	0.0011	0.0012	<0.0005	<0.0005	<0.0005
Sodium	mg/L	510	260	270	250	230	240	210
Strontium	mg/L	0.23	0.12	0.14	0.13	0.10	0.11	0.10
Tin	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.10	0.07	0.06	0.06	0.05	0.06	0.05
Vanadium	mg/L	0.042	0.040	0.034	0.026	0.028	0.032	0.026
Zinc	mg/L	0.054	0.077	0.043	0.083	0.035	0.037	0.033
Mercury	mg/L	0.0009	0.00049	<0.00077	<0.00035	<0.0007	<0.0004	<0.0007
Antimony	mg/L	1.3	1.0	1.1	0.98	0.71	0.74	0.59
Arsenic	mg/L	6.6	7.2	6.4	6.1	4.8	4.7	4.2
Lead	mg/L	0.18	0.32	0.29	0.33	0.23	0.24	0.21
Selenium	mg/L	0.027	0.017	0.018	0.016	0.015	0.018	0.012
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Uranium	mg/L	0.48	0.22	0.17	0.16	0.12	0.12	0.10
Anions	meq/L	--	--	--	12.3	10.7	11.3	10.3
Cations	meq/L	--	--	--	11.4	9.99	10.6	9.98
Error	%	--	--	--	4.2	3.5	3.2	1.4
Cyanate	mg/L	3.9	2.1	2.9	1.9	2.5	2.8	3.2
Thiocyanate	mg/L	3.5	6.2	2.2	1.8	1.8	1.4	1.3
Ammonia, as Nitrogen	mg/L	0.32	0.18	0.099	1.2	0.068	<0.050	<0.050
Total Cyanide	mg/L	18	1.4	1.0	0.69	0.46	0.56	0.36
WAD Cyanide	mg/L	0.17	0.070	0.067	0.017	0.021	0.034	0.015
Total Organic Carbon	mg/L	18.0	--	--	--	--	--	--

Table 6-94.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63301 (continued)

		63301 (28, Jan) Humidity Cell	63301 (4, Feb) Humidity Cell	63301 (11, Feb) Humidity Cell	63301 (18, Feb) Humidity Cell	63301 (25, Feb) Humidity Cell	63301 (4, Mar) Humidity Cell	63301 (11, Mar) Humidity Cell	63301 (18, Mar) Humidity Cell
	WET Lab No.:	1301402	1302024	1302163	1302292	1302382	1303031	1303185	1303326
	Report Date:	2-Feb-13	15-Feb-13	15-Feb-13	4-Mar-13	1-Mar-13	11-Mar-13	27-Mar-13	25-Mar-13
Constituent	**Unit**								
pH	pH Units	8.69	8.66	9.04	8.68	8.61	8.56	8.58	8.66
Acidity (Titrimetric)	mg/L as CaCO3	-85	-86	-50	-51	-121	-37	--	--
Bicarbonate (HCO3)	mg/L	510	500	380	410	460	410	400	400
Carbonate (CO3)	mg/L	19	17	47	16	14	11	13	16
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	450	440	390	360	400	360	350	350
Redox Potential	mV	310	250	300	270	3.5	36	-23	-28
Total Kjeldahl Nitrogen	mg/L	0.99	0.94	0.88	0.93	0.73	0.72	0.66	0.75
Total Nitrogen	mg/L	0.99	1.8	1.5	1.4	1.1	1.0	0.85	0.88
Total Dissolved Solids (TDS)	mg/L	720	660	660	630	580	560	540	560
Electrical Conductivity	µmhos/cm	1100	1000	970	840	890	830	790	840
Chloride	mg/L	<0.10	<0.10	<0.10	2.1	<0.10	<0.10	<0.10	<0.10
Fluoride	mg/L	1.4	1.3	1.3	1.2	1.0	1.1	1.0	1.0
Sulfate	mg/L	90	99	92	74	76	77	74	79
Nitrate Nitrogen	mg/L	0.61	0.84	0.61	0.48	0.35	0.28	0.20	0.10
Nitrite Nitrogen	mg/L	0.040	0.040	0.061	0.035	<0.010	<0.010	<0.010	0.024
Aluminum	mg/L	3.7	3.7	3.9	3.2	2.9	3.1	3.4	3.2
Barium	mg/L	0.039	0.046	0.044	0.037	0.035	0.034	0.038	0.042
Beryllium	mg/L	0.00046	<0.0002	<0.0002	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.070	0.061	0.057	0.044	0.042	0.054	0.042	0.049
Cadmium	mg/L	0.00046	<0.0002	<0.0002	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009
Calcium	mg/L	7.1	8.7	7.8	7.5	7.5	6.8	7.3	6.6
Chromium	mg/L	0.0025	0.0027	0.0028	0.0036	0.0020	0.0014	0.0019	0.0028
Cobalt	mg/L	0.0029	0.003	0.003	0.003	0.0024	0.002	0.002	0.0023
Copper	mg/L	0.021	0.043	0.016	0.014	0.0095	0.019	0.0093	0.010
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	1.9	2.1	2.0	1.9	1.5	1.7	1.8	1.5
Lithium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Magnesium	mg/L	0.69	0.72	0.66	0.66	0.57	0.54	0.57	0.49
Manganese	mg/L	0.058	0.071	0.064	0.057	0.051	0.053	0.052	0.058
Molybdenum	mg/L	0.014	0.014	0.013	0.009	0.010	0.011	0.010	0.0068
Nickel	mg/L	0.0043	0.0048	0.0050	0.0047	0.0034	0.0037	0.0038	0.0037
Phosphorus	mg/L	0.98	0.90	1.0	1.0	0.92	1.0	0.88	0.95
Potassium	mg/L	4.2	4.1	3.7	3.4	3.5	3.2	3.8	3.2
Scandium	mg/L	0.0010	0.00	0.00	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon	mg/L	24	26	24	22	21	24	24	22
Silver	mg/L	<0.0005	<0.0005	<0.0005	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Sodium	mg/L	230	220	200	180	190	170	180	160
Strontium	mg/L	0.12	0.12	0.11	0.10	0.10	0.09	0.10	0.090
Tin	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.061	0.06	0.06	0.04	0.044	0.05	0.06	0.039
Vanadium	mg/L	0.029	0.028	0.029	0.033	0.030	0.030	0.034	0.038
Zinc	mg/L	0.036	0.041	0.039	0.055	0.038	0.034	0.034	0.036
Mercury	mg/L	<0.0007	<0.0007	<0.0007	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Antimony	mg/L	0.67	0.64	0.64	0.51	0.55	0.57	0.52	0.56
Arsenic	mg/L	4.6	4.2	4.6	4.2	3.8	4.2	3.8	3.7
Lead	mg/L	0.27	0.34	0.33	0.26	0.27	0.27	0.28	0.31
Selenium	mg/L	0.014	<0.020	0.016	0.016	0.015	0.014	0.013	0.013
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Uranium	mg/L	0.12	0.12	0.12	0.084	0.082	0.073	0.068	0.065
Anions	meq/L	11.0	11.0	9.82	8.95	9.68	8.77	8.60	8.79
Cations	meq/L	11.0	10.7	9.27	8.29	7.95	8.30	8.62	7.81
Error	%	<1.0	1.2	2.9	3.9	9.8	2.7	<1.0	5.9
Cyanate	mg/L	3.7	3.0	3.2	4.2	4.0	3.0	<0.15	0.61
Thiocyanate	mg/L	1.3	1.5	0.89	1.1	0.84	1.1	1.0	0.39
Ammonia, as Nitrogen	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Cyanide	mg/L	0.41	0.38	0.45	0.31	0.33	0.31	0.32	0.31
WAD Cyanide	mg/L	0.023	0.048	0.020	0.019	<0.050	0.025	0.053	0.021

Table 6-95.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63301 (continued)

		63301 (25, Mar) Humidity Cell	63301 (1, Apr) Humidity Cell	63301 (8, Apr) Humidity Cell	63301 (15, Apr) Humidity Cell	63301 (22, Apr) Humidity Cell	63301 (6, May) Humidity Cell	63301 (20, May) Humidity Cell
	WET Lab No.:	1303472	1304011	1304141	1304261	1304391	1305109	1305401
	Report Date:	1-Apr-13	8-Apr-13	15-Apr-13	22-Apr-13	29-Apr-13	14-May-13	29-May-13
Constituent	**Unit**							
pH	pH Units	8.68	8.70	8.69	8.61	8.63	8.65	8.63
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	-53	--	--	--
Bicarbonate (HCO3)	mg/L	370	370	410	390	380	360	360
Carbonate (CO3)	mg/L	17	17	17	14	15	16	14
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	330	330	360	340	340	330	320
Redox Potential	mV	-145	-98	-123	-148	160	35	-86
Chloride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoride	mg/L	0.93	0.98	0.79	0.72	0.73	0.79	0.81
Sulfate	mg/L	72	67	60	56	63	84	84
Nitrate Nitrogen	mg/L	0.099	0.082	0.22	0.30	0.41	0.51	0.67
Nitrite Nitrogen	mg/L	<0.010	0.028	0.029	<0.010	0.023	0.015	<0.010
Total Kjeldahl Nitrogen	mg/L	0.72	0.64	0.70	0.67	0.58	0.65	0.74
Total Nitrogen	mg/L	0.82	0.75	0.95	0.67	0.58	1.2	1.4
Total Cyanide	mg/L	0.29	0.25	0.22	0.15	0.15	0.16	0.18
Total Dissolved Solids (TDS)	mg/L	540	510	550	490	510	520	530
WAD Cyanide	mg/L	<0.050	0.025	0.015	0.027	0.019	0.011	0.029
Electrical Conductivity	µmhos/cm	730	740	820	770	770	740	760
Aluminum	mg/L	3.1	3.0	2.5	2.0	1.9	2.6	2.8
Barium	mg/L	0.038	0.037	0.035	0.028	0.026	0.033	0.038
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.03	0.035	0.038	0.034	0.027	0.026	0.032
Calcium	mg/L	7.7	7.6	8.3	7.1	6.2	6.6	8.2
Cobalt	mg/L	0.002	<0.0020	0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	1.7	1.6	1.4	1.1	0.91	1.1	1.3
Lithium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Magnesium	mg/L	0.52	0.50	0.49	0.53	0.46	0.44	0.48
Manganese	mg/L	0.053	0.052	0.046	0.034	0.032	0.040	0.050
Molybdenum	mg/L	<0.0050	0.0051	<0.0050	<0.0050	0.0053	0.0080	0.0060
Phosphorus	mg/L	0.93	0.87	0.78	0.70	0.63	0.60	0.63
Potassium	mg/L	3.2	3.0	3.5	3.7	3.3	3.4	3.4
Scandium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon	mg/L	25	24	22	21	19	23	25
Sodium	mg/L	160	160	180	200	170	190	170
Strontium	mg/L	0.09	0.091	0.11	0.094	0.082	0.094	0.10
Tin	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.05	0.051	0.035	0.030	0.026	0.031	0.039
Vanadium	mg/L	0.033	0.035	0.032	0.028	0.025	0.024	0.025
Zinc	mg/L	0.036	0.032	0.033	0.025	0.022	0.026	0.036
Antimony	mg/L	0.43	0.51	0.49	0.43	0.41	0.45	0.51
Arsenic	mg/L	3.4	3.5	2.7	2.3	2.2	2.2	2.6
Beryllium	mg/L	<0.00035	<0.00035	<0.00035	<0.00035	0.00046	<0.00035	0.0010
Cadmium	mg/L	<0.0009	<0.00090	<0.00090	<0.00090	<0.00090	0.0013	<0.00090
Chromium	mg/L	<0.0010	0.0015	0.0025	0.0015	0.0018	0.0020	0.0022
Copper	mg/L	0.0066	0.0084	0.0095	0.0075	0.013	0.011	0.012
Lead	mg/L	0.30	0.25	0.26	0.19	0.18	0.26	0.32
Nickel	mg/L	0.0033	0.0037	0.0029	0.0025	0.0022	0.0025	0.0028
Selenium	mg/L	0.014	0.014	0.010	0.0096	0.0082	0.0081	0.0095
Silver	mg/L	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Thallium	mg/L	<0.0004	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Uranium	mg/L	0.063	0.050	0.050	0.044	0.041	0.040	0.040
Mercury	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.0010	<0.00010	<0.00010
Anions	meq/L	8.19	8.08	8.59	--	8.11	8.26	8.21
Cations	meq/L	7.91	7.88	8.69	--	8.05	9.03	8.28
Error	%	1.7	1.3	<1.0	--	<1.0	4.5	<1.0
Cyanate	mg/L	0.37	0.10	<0.20	0.16	0.06	<0.050	<0.050
Thiocyanate	mg/L	0.37	0.30	0.35	0.34	0.31	0.22	0.34
Ammonia, as Nitrogen	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.053

Table 6-96.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63301 (continued)

		63301 (3, Jun) Humidity Cell	63301 (17, Jun) Humidity Cell	63301 (1, Jul) Humidity Cell	63301 (15, Jul) Humidity Cell	63301 (29, Jul) Humidity Cell	63301 (12, Aug) Humidity Cell	63301 (26, Aug) Humidity Cell	63301 (9, Sep) Humidity Cell
	WET Lab No.:	1306005	1306373	1307018	1307323	1307665	1308215	1308505	1309142
	Report Date:	17-Jun-13	27-Jun-13	15-Jul-13	22-Jul-13	5-Aug-13	27-Aug-13	6-Sep-13	17-Sep-13
Constituent	**Unit**								
pH	pH Units	8.58	8.62	8.60	8.66	8.56	8.54	8.49	8.43
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	360	370	310	330	310	280	260	250
Carbonate (CO3)	mg/L	11	13	13	15	13	8.9	9.2	4.3
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	310	320	280	290	270	240	230	210
Redox Potential	mV	-55	-141	-85	-143	-54	-115	-119	-151
Chloride	mg/L	<0.10	0.12	0.32	0.10	0.11	0.12	0.15	0.11
Fluoride	mg/L	0.89	0.77	<1.0	0.74	0.67	0.58	0.53	0.45
Sulfate	mg/L	75	88	60	79	70	53	51	43
Nitrate Nitrogen	mg/L	0.82	1.7	0.69	0.83	0.98	1.1	1.1	0.78
Nitrite Nitrogen	mg/L	0.16	0.22	0.19	0.25	0.17	0.17	0.11	0.098
Total Kjeldahl Nitrogen	mg/L	1.1	0.76	0.90	0.85	0.74	0.54	0.50	0.50
Total Nitrogen	mg/L	2.1	2.7	1.8	1.9	1.9	1.8	1.7	1.4
Total Cyanide	mg/L	0.13	0.18	0.17	0.18	0.15	0.11	0.13	0.11
Total Dissolved Solids (TDS)	mg/L	490	540	480	520	460	420	390	350
WAD Cyanide	mg/L	0.010	0.026	0.021	0.020	0.023	<0.010	0.018	0.019
Electrical Conductivity	µmhos/cm	700	760	640	700	670	590	560	530
Aluminum	mg/L	2.1	3.0	2.9	4.1	2.8	2.1	2.1	1.6
Barium	mg/L	0.029	0.040	0.036	0.052	0.040	0.029	0.029	0.019
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.028	0.028	0.027	0.034	0.034	0.029	0.037	0.027
Calcium	mg/L	6.2	8.5	7.2	11	8.8	7.0	7.6	5.8
Cobalt	mg/L	<0.0020	0.0022	<0.0020	0.0024	0.0023	<0.0020	<0.0020	<0.0020
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	1.0	1.3	1.4	1.8	1.4	1.0	1.0	0.74
Lithium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Magnesium	mg/L	0.42	0.49	0.48	0.65	0.50	0.45	0.51	0.43
Manganese	mg/L	0.036	0.051	0.044	0.061	0.048	0.036	0.033	0.021
Molybdenum	mg/L	<0.0050	<0.0050	<0.0050	0.0083	<0.0050	0.0053	<0.0050	0.0096
Phosphorus	mg/L	0.83	0.68	0.68	0.78	0.93	0.74	0.53	0.36
Potassium	mg/L	3.5	3.9	4.1	5.6	4.1	3.3	4.8	4.4
Scandium	mg/L	<0.0010	<0.0010	<0.0010	0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon	mg/L	22	26	28	--	28	22	21	18
Sodium	mg/L	160	160	150	200	140	120	150	120
Strontium	mg/L	0.082	0.11	0.089	0.13	0.11	0.082	0.086	0.078
Tin	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.027	0.036	0.042	0.041	0.032	0.023	0.025	0.014
Vanadium	mg/L	0.026	0.018	0.030	0.024	0.019	0.019	0.015	0.013
Zinc	mg/L	0.028	0.032	0.030	0.041	0.031	0.026	0.022	0.011
Antimony	mg/L	0.47	0.43	0.59	0.42	0.38	0.36	0.30	0.26
Arsenic	mg/L	2.6	2.3	2.6	2.2	1.9	1.7	1.5	1.4
Beryllium	mg/L	0.00042	<0.0035	0.0004	0.00062	<0.00035	0.00042	0.00042	<0.00035
Cadmium	mg/L	<0.00090	<0.0090	<0.00090	<0.00090	<0.00090	<0.00090	<0.00090	<0.00090
Chromium	mg/L	0.0017	<0.010	0.0016	0.0023	0.0020	0.0013	0.0012	0.0011
Copper	mg/L	0.0093	<0.025	0.010	0.0088	0.0092	0.012	0.0098	0.0058
Lead	mg/L	0.23	0.33	0.28	0.34	0.29	0.23	0.18	0.14
Nickel	mg/L	0.0025	<0.010	0.0028	0.0031	0.0027	0.0023	0.0024	0.0020
Selenium	mg/L	0.011	<0.020	0.010	0.0082	0.0081	0.0062	0.0078	0.0052
Silver	mg/L	<0.0015	<0.015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Thallium	mg/L	<0.00040	<0.0040	<0.00040	<0.00040	<0.00040	<0.0010	<0.00040	<0.00040
Uranium	mg/L	0.032	0.034	0.027	0.028	0.025	0.022	0.019	0.016
Mercury	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00036	<0.00010
Anions	meq/L	7.93	8.50	6.82	7.66	7.08	6.10	5.74	5.22
Cations	meq/L	7.66	7.89	7.39	10.0	7.02	5.94	7.36	5.84
Error	%	1.8	3.7	4.0	13	<1.0	1.3	12	5.6
Cyanate	mg/L	<0.050	<0.10	0.06	0.09	0.20	<0.10	<0.10	<0.10
Thiocyanate	mg/L	0.37	0.13	0.21	0.26	<0.10	<0.10	<0.10	<0.10
Ammonia, as Nitrogen	mg/L	0.17	0.056	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Table 6-97.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63310

		63310 (13, Nov) Humidity Cell	63310 (19, Nov) Humidity Cell	63310 (26, Nov) Humidity Cell	63310 (3, Dec) Humidity Cell
	WET Lab No.:	1211242	1211340	1211413	1212011
	Report Date:	28-Nov-12	4-Dec-12	5-Dec-12	12-Dec-12
Constituent	**Unit**				
pH	pH Units	8.50	8.47	8.28	8.46
Acidity (Titrimetric)	mg/L as CaCO3	-82	-74	-83	-55
Bicarbonate (HCO3)	mg/L	460	430	320	350
Carbonate (CO3)	mg/L	11	8.8	<1.0	5.5
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	390	370	260	290
Redox Potential	mV	260	240	210	180
Total Kjeldahl Nitrogen	mg/L	22	0.98	1.1	1.7
Total Nitrogen	mg/L	74	6.1	1.7	2.0
Total Dissolved Solids (TDS)	mg/L	0.62	2100	2200	1200
Electrical Conductivity	µmhos/cm	1800	3300	3400	1800
Chloride	mg/L	2700	85	74	15
Fluoride	mg/L	2.9	1.9	1.7	2.2
Sulfate	mg/L	540	1000	1100	510
Nitrate Nitrogen	mg/L	24	1.3	0.32	0.31
Nitrite Nitrogen	mg/L	52	3.9	0.28	<0.10
Aluminum	mg/L	1.3	1.0	1.3	5.6
Barium	mg/L	0.022	0.024	0.028	0.049
Beryllium	mg/L	0.0004	<0.0004	0.0003	0.0008
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.10	0.09	0.08	0.07
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	0.0007
Calcium	mg/L	7.8	10	14	9.5
Chromium	mg/L	0.0014	0.0011	0.0013	0.0034
Cobalt	mg/L	0.066	0.012	0.009	0.009
Copper	mg/L	0.26	0.16	0.15	0.15
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	0.68	0.59	0.64	4.3
Lithium	mg/L	0.02	0.02	0.03	<0.020
Magnesium	mg/L	0.87	1.3	1.4	1.2
Manganese	mg/L	0.018	0.017	0.024	0.085
Molybdenum	mg/L	0.037	0.010	0.011	0.013
Nickel	mg/L	0.003	0.002	0.002	0.008
Phosphorus	mg/L	0.30	0.18	0.13	0.40
Potassium	mg/L	6.0	7.6	7.6	5.0
Scandium	mg/L	<0.0010	<0.0010	<0.0010	0.00
Silver	mg/L	0.0005	0.0005	<0.0005	0.0013
Sodium	mg/L	620	840	830	370
Strontium	mg/L	0.18	0.26	0.32	0.14
Tin	mg/L	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.02	0.02	0.02	0.06
Vanadium	mg/L	0.019	0.017	0.015	0.027
Zinc	mg/L	0.026	0.022	0.022	0.080
Mercury	mg/L	<0.0035	0.0009	0.0008	<0.0007
Antimony	mg/L	0.91	0.73	0.81	0.86
Arsenic	mg/L	4.9	3.4	3.0	4.9
Lead	mg/L	0.13	0.081	0.14	0.35
Selenium	mg/L	0.017	0.0072	0.012	0.018
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Cyanate	mg/L	7.2	5.6	2.8	3.6
Thiocyanate	mg/L	4.0	0.87	2.4	3.3
Ammonia, as Nitrogen	mg/L	0.94	0.074	<0.050	<0.050
Total Cyanide	mg/L	0.62	0.18	0.22	0.32
Cyanide, WAD	mg/L	0.024	0.022	0.021	0.012
Silicon	mg/L	16	16	16	25
Uranium	mg/L	0.24	0.24	0.19	0.21

Table 6-98.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63313

		63313 (13, Nov) Humidity Cell	63313 (19, Nov) Humidity Cell	63313 (26, Nov) Humidity Cell	63313 (3, Dec) Humidity Cell
	WET Lab No.:	1211242	1211340	1211413	1212011
	Report Date:	28-Nov-12	4-Dec-12	5-Dec-12	12-Dec-12
Constituent	**Unit**				
pH	pH Units	8.56	8.62	8.57	8.73
Acidity (Titrimetric)	mg/L as CaCO3	-70	-76	-47	-82
Bicarbonate (HCO3)	mg/L	510	540	370	370
Carbonate (CO3)	mg/L	15	20	12	19
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	440	480	320	340
Redox Potential	mV	250	220	100	170
Total Kjeldahl Nitrogen	mg/L	18	2.0	1.2	1.7
Total Nitrogen	mg/L	130	20	4.8	3.1
Total Dissolved Solids (TDS)	mg/L	2200	2000	1700	1000
Electrical Conductivity	µmhos/cm	3500	3200	2800	1600
Chloride	mg/L	55	79	66	15
Fluoride	mg/L	2.1	1.8	1.8	2.2
Sulfate	mg/L	570	850	810	310
Nitrate Nitrogen	mg/L	29	2.9	0.59	0.37
Nitrite Nitrogen	mg/L	110	15	3.0	1.1
Aluminum	mg/L	0.87	2.4	1.5	3.6
Barium	mg/L	0.020	0.030	0.021	0.034
Beryllium	mg/L	0.0003	0.0005	0.0003	0.0006
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.10	0.09	0.08	0.08
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	0.0005
Calcium	mg/L	8.2	8.7	7.0	6.3
Chromium	mg/L	0.0012	0.0021	0.0016	0.0021
Cobalt	mg/L	0.071	0.015	0.008	0.008
Copper	mg/L	0.075	0.12	0.13	0.095
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	0.44	2.2	0.79	2.4
Lithium	mg/L	<0.020	0.02	<0.020	<0.020
Magnesium	mg/L	1.1	1.4	0.83	0.65
Manganese	mg/L	0.013	0.041	0.023	0.054
Molybdenum	mg/L	0.039	0.010	0.008	0.006
Nickel	mg/L	<0.0020	0.005	0.002	0.005
Phosphorus	mg/L	0.34	0.26	0.18	0.42
Potassium	mg/L	7.8	7.9	6.8	4.6
Scandium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Silver	mg/L	<0.0005	<0.0005	<0.0005	0.0006
Sodium	mg/L	780	780	690	340
Strontium	mg/L	0.21	0.22	0.17	0.09
Tin	mg/L	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.01	0.03	0.03	0.05
Vanadium	mg/L	0.022	0.027	0.025	0.044
Zinc	mg/L	0.019	0.035	0.019	0.047
Mercury	mg/L	<0.0007	0.0007	<0.0007	<0.0007
Antimony	mg/L	0.73	0.69	0.78	0.89
Arsenic	mg/L	4.3	4.2	4.2	5.8
Lead	mg/L	0.079	0.16	0.14	0.26
Selenium	mg/L	0.014	0.0080	0.014	0.024
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Cyanate	mg/L	3.3	1.3	2.9	3.0
Thiocyanate	mg/L	12	3.4	7.0	1.7
Ammonia, as Nitrogen	mg/L	0.41	0.087	0.13	0.11
Total Cyanide	mg/L	2.2	0.20	0.20	0.31
Cyanide, WAD	mg/L	0.059	0.024	0.021	0.016
Silicon	mg/L	13	18	16	22
Uranium	mg/L	0.19	0.16	0.14	0.16

Table 6-99.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63316

		63316 (19, Nov) Humidity Cell	63316 (26, Nov) Humidity Cell	63316 (3, Dec) Humidity Cell	63316 (10, Dec) Humidity Cell	63316 (17, Dec) Humidity Cell
	WET Lab No.:	1211340	1211413	1212011	1212169	1212310
	Report Date:	4-Dec-12	5-Dec-12	12-Dec-12	26-Dec-12	28-Dec-12
Constituent	**Unit**					
pH	pH Units	8.54	8.59	8.61	8.79	8.75
Acidity (Titrimetric)	mg/L as CaCO3	-83	-116	-52	-92	-115
Bicarbonate (HCO3)	mg/L	530	470	390	460	460
Carbonate (CO3)	mg/L	14	16	13	29	34
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	460	410	340	430	430
Redox Potential	mV	280	180	210	250	230
Total Kjeldahl Nitrogen	mg/L	1.4	1.2	1.8	1.6	1.8
Total Nitrogen	mg/L	60	96	30	9.5	3.8
Total Dissolved Solids (TDS)	mg/L	2600	3100	2300	1400	1100
Electrical Conductivity	µmhos/cm	4200	4700	3600	2100	1700
Chloride	mg/L	85	95	72	18	0.36
Fluoride	mg/L	1.6	1.4	1.9	2.3	2.0
Sulfate	mg/L	1200	1300	1200	540	340
Nitrate Nitrogen	mg/L	20	2.3	0.62	0.41	<1.0
Nitrite Nitrogen	mg/L	39	93	28	8.0	2.0
Aluminum	mg/L	0.64	0.37	1.1	2.4	2.4
Barium	mg/L	0.023	0.022	0.022	0.028	0.029
Beryllium	mg/L	<0.0004	<0.0004	0.0004	<0.0010	0.0005
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.08	0.07	0.08	0.08	0.06
Cadmium	mg/L	<0.0002	<0.0002	0.0002	0.0014	0.0004
Calcium	mg/L	8.9	10	8.2	6.0	6.4
Chromium	mg/L	<0.0010	0.0011	<0.0010	0.0020	0.0020
Cobalt	mg/L	0.047	0.012	0.007	0.01	0.005
Copper	mg/L	0.058	0.19	0.060	0.26	0.077
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	0.35	0.23	0.55	1.2	1.4
Lithium	mg/L	0.02	0.04	0.02	<0.020	<0.020
Magnesium	mg/L	1.3	1.7	1.1	0.51	0.45
Manganese	mg/L	0.010	0.0077	0.016	0.032	0.032
Molybdenum	mg/L	0.026	0.009	0.007	<0.025	<0.025
Nickel	mg/L	<0.0020	<0.0020	<0.0020	0.077	0.0031
Phosphorus	mg/L	0.26	0.14	0.22	0.30	0.43
Potassium	mg/L	13	14	10	6.1	5.1
Scandium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silver	mg/L	<0.0005	<0.0005	0.0008	0.0013	<0.0025
Sodium	mg/L	1000	1200	820	450	370
Strontium	mg/L	0.28	0.36	0.22	0.12	0.10
Tin	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.01	0.01	0.02	0.04	0.05
Vanadium	mg/L	0.017	0.014	0.021	0.029	0.026
Zinc	mg/L	0.015	<0.010	0.018	0.039	0.041
Mercury	mg/L	<0.0007	<0.0007	<0.0007	0.00058	0.00044
Antimony	mg/L	0.65	0.52	0.77	0.99	0.99
Arsenic	mg/L	2.7	2.4	3.1	5.1	5.1
Lead	mg/L	0.065	0.033	0.088	0.22	0.23
Selenium	mg/L	0.0066	0.0034	0.0096	0.016	<0.020
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Anions	meq/L	--	--	--	--	--
Cations	meq/L	--	--	--	--	--
Error	%	--	--	--	--	--
Cyanate	mg/L	7.1	4.6	3.5	2.3	5.2
Thiocyanate	mg/L	2.7	4.8	0.98	1.1	1.4
Ammonia, as Nitrogen	mg/L	5.1	0.46	0.19	0.18	0.11
Total Cyanide	mg/L	0.27	0.20	0.13	0.087	0.26
Cyanide, WAD	mg/L	0.030	0.032	0.027	0.015	0.010
Silicon	mg/L	12	12	14	19	19
Uranium	mg/L	0.23	0.23	0.16	0.12	0.16
Total Organic Carbon	mg/L	--	--	--	5.4	--

Table 6-100.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63316 (continued)

		63316 (24, Dec) Humidity Cell	63316 (31, Dec) Humidity Cell	63316 (7, Jan) Humidity Cell	63316 (14, Jan) Humidity Cell	63316 (21, Jan) Humidity Cell
	WET Lab No.:	1212518	1301003	1301079	1301186	1301295
	Report Date:	4-Jan-13	10-Jan-13	15-Jan-13	22-Jan-13	28-Jan-13
Constituent	**Unit**					
pH	pH Units	8.90	8.84	8.82	8.81	8.81
Acidity (Titrimetric)	mg/L as CaCO3	-94	-85	-100	-85	-86
Bicarbonate (HCO3)	mg/L	500	480	490	480	490
Carbonate (CO3)	mg/L	46	38	38	39	25
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	490	460	460	460	440
Redox Potential	mV	210	290	250	270	310
Total Kjeldahl Nitrogen	mg/L	1.7	1.2	0.48	0.62	0.46
Total Nitrogen	mg/L	2.4	1.2	0.52	0.62	0.46
Total Dissolved Solids (TDS)	mg/L	960	800	820	800	720
Electrical Conductivity	µmhos/cm	1500	1200	1300	1300	1100
Chloride	mg/L	1.2	<1.0	0.19	0.12	<0.10
Fluoride	mg/L	1.9	1.6	1.4	1.4	1.3
Sulfate	mg/L	280	170	180	190	130
Nitrate Nitrogen	mg/L	0.33	<0.10	<0.10	<0.10	0.022
Nitrite Nitrogen	mg/L	0.68	0.22	0.042	0.016	<0.010
Aluminum	mg/L	2.8	4.4	2.2	2.5	1.9
Barium	mg/L	0.029	0.040	0.025	0.027	0.021
Beryllium	mg/L	0.0005	0.0004	0.0006	0.0005	<0.0002
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.06	0.044	0.073	0.046	0.037
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	0.0004	<0.0002
Calcium	mg/L	6.2	6.8	5.4	6.2	5.1
Chromium	mg/L	0.0023	0.0030	0.0021	0.0014	<0.0010
Cobalt	mg/L	0.004	0.004	0.003	0.003	0.002
Copper	mg/L	0.083	0.090	0.067	0.070	0.070
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	1.5	3.8	1.4	1.4	1.2
Lithium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020
Magnesium	mg/L	0.47	1.1	0.39	0.38	0.36
Manganese	mg/L	0.034	0.070	0.033	0.035	0.028
Molybdenum	mg/L	0.009	0.008	0.007	0.006	<0.0050
Nickel	mg/L	0.0035	0.0080	0.0034	0.0032	0.0029
Phosphorus	mg/L	0.57	0.64	0.50	0.51	0.54
Potassium	mg/L	5.1	4.6	4.0	4.2	3.6
Scandium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silver	mg/L	0.0018	0.0018	0.0008	0.0005	<0.0005
Sodium	mg/L	360	270	290	280	240
Strontium	mg/L	0.10	0.09	0.08	0.09	0.07
Tin	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.05	0.05	0.04	0.05	0.04
Vanadium	mg/L	0.027	0.023	0.024	0.024	0.023
Zinc	mg/L	0.036	0.11	0.032	0.035	0.032
Mercury	mg/L	<0.00077	0.00026	<0.0007	<0.0004	<0.0007
Antimony	mg/L	0.84	0.58	0.68	0.80	0.54
Arsenic	mg/L	4.5	4.5	3.9	4.2	3.5
Lead	mg/L	0.23	0.28	0.22	0.25	0.17
Selenium	mg/L	0.017	0.015	0.015	0.017	0.011
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Anions	meq/L	--	12.8	13.1	13.2	11.6
Cations	meq/L	--	12.2	12.3	12.1	11.1
Error	%	--	2.4	3.3	4.4	2.5
Cyanate	mg/L	2.1	1.8	2.2	1.6	2.7
Thiocyanate	mg/L	1.2	3.2	1.0	1.1	0.67
Ammonia, as Nitrogen	mg/L	0.11	0.73	<0.050	<0.050	<0.050
Total Cyanide	mg/L	0.10	0.11	0.14	0.14	0.087
Cyanide, WAD	mg/L	0.012	<0.010	<0.010	0.019	0.010
Silicon	mg/L	21	21	17	19	15
Uranium	mg/L	0.17	0.12	0.13	0.14	0.096

Table 6-101.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63316 (continued)

		63316 (28, Jan) Humidity Cell	63316 (4, Feb) Humidity Cell	63316 (11, Feb) Humidity Cell	63316 (18, Feb) Humidity Cell	63316 (25, Feb) Humidity Cell	63316 (4, Mar) Humidity Cell	63316 (11, Mar) Humidity Cell	63316 (18, Mar) Humidity Cell
	WET Lab No.:	1301402	1302024	1302163	1302292	1302382	1303031	1303185	1303326
	Report Date:	2-Feb-13	15-Feb-13	15-Feb-13	4-Mar-13	1-Mar-13	11-Mar-13	27-Mar-13	25-Mar-13
Constituent	**Unit**								
pH	pH Units	8.79	8.76	9.17	8.73	8.75	8.67	8.73	8.79
Acidity (Titrimetric)	mg/L as CaCO3	-124	-115	-69	-79	-88	-49	--	--
Bicarbonate (HCO3)	mg/L	480	480	430	470	480	460	430	440
Carbonate (CO3)	mg/L	25	22	66	22	23	18	22	26
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	440	430	460	420	430	410	390	410
Redox Potential	mV	350	300	280	280	50	34	-69	-41
Total Kjeldahl Nitrogen	mg/L	0.51	0.68	0.53	0.54	0.49	0.62	0.40	0.53
Total Nitrogen	mg/L	0.51	0.68	0.53	0.59	0.49	0.62	0.40	0.53
Total Dissolved Solids (TDS)	mg/L	770	710	780	730	690	650	620	680
Electrical Conductivity	µmhos/cm	1200	1100	1200	1100	1100	1000	950	1000
Chloride	mg/L	<0.10	<0.10	<0.10	1.3	<0.10	<0.10	<0.10	<0.10
Fluoride	mg/L	1.5	1.4	1.4	1.2	1.2	1.1	1.1	1.2
Sulfate	mg/L	160	140	150	130	130	120	110	120
Nitrate Nitrogen	mg/L	<0.10	<0.010	<0.010	0.077	<0.010	<0.010	<0.010	<0.010
Nitrite Nitrogen	mg/L	<0.010	<0.010	<0.010	0.055	<0.010	<0.010	<0.010	<0.010
Aluminum	mg/L	2.6	2.7	3.0	2.5	2.4	2.4	1.9	2.4
Barium	mg/L	0.028	0.029	0.031	0.026	0.026	0.024	0.024	0.028
Beryllium	mg/L	<0.0002	<0.0002	<0.0002	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.051	0.039	0.042	0.033	0.033	0.034	0.028	0.038
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009
Calcium	mg/L	6.6	6.4	6.9	6.0	6.0	6.0	5.2	6.0
Chromium	mg/L	0.0020	0.0021	0.0022	0.0028	0.0018	0.0018	0.0016	0.0033
Cobalt	mg/L	0.0022	0.002	0.002	<0.0020	0.0020	<0.0020	<0.0020	<0.0020
Copper	mg/L	0.057	0.079	0.046	0.034	0.027	0.044	0.024	0.039
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	1.4	1.7	1.7	1.4	1.4	1.5	1.3	1.4
Lithium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Magnesium	mg/L	0.39	0.44	0.43	0.40	0.38	0.45	0.36	0.37
Manganese	mg/L	0.035	0.042	0.041	0.036	0.033	0.038	0.031	0.034
Molybdenum	mg/L	<0.0050	0.005	0.005	0.005	<0.0050	<0.0050	<0.0050	<0.0050
Nickel	mg/L	0.0033	0.0039	0.0037	0.0036	0.0030	0.0038	0.0034	0.0032
Phosphorus	mg/L	0.51	0.49	0.54	0.53	0.53	0.53	0.53	0.51
Potassium	mg/L	4.2	4.2	4.1	3.9	3.8	3.8	3.4	3.9
Scandium	mg/L	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon	mg/L	20	21	22	19	19	20	18	21
Silver	mg/L	<0.0005	<0.0005	<0.0005	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Sodium	mg/L	260	250	240	240	230	220	200	220
Strontium	mg/L	0.088	0.08	0.09	0.08	0.076	0.07	0.06	0.074
Tin	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.050	0.05	0.06	0.04	0.042	0.04	0.04	0.041
Vanadium	mg/L	0.028	0.025	0.026	0.023	0.023	0.020	0.023	0.026
Zinc	mg/L	0.038	0.048	0.048	0.039	0.040	0.040	0.034	0.042
Mercury	mg/L	0.00079	0.0002	<0.0007	<0.0010	<0.0010	0.00021	<0.0010	<0.0010
Antimony	mg/L	0.70	0.63	0.68	0.60	0.58	0.59	0.51	0.55
Arsenic	mg/L	4.0	3.6	3.6	3.3	3.1	3.2	2.9	3.0
Lead	mg/L	0.25	0.27	0.28	0.24	0.23	0.23	0.21	0.22
Selenium	mg/L	0.014	<0.020	0.014	0.013	0.013	0.0098	0.011	0.011
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Uranium	mg/L	0.12	0.10	0.11	0.085	0.080	0.074	0.067	0.073
Anions	meq/L	12.1	11.6	12.4	11.2	11.4	10.7	10.1	10.6
Cations	meq/L	12.1	11.7	10.6	10.4	9.85	10.3	8.90	10.3
Error	%	<1.0	<1.0	7.9	3.9	7.3	1.8	6.5	1.5
Cyanate	mg/L	2.6	3.1	5.8	4.9	2.9	3.5	<0.15	0.62
Thiocyanate	mg/L	1.1	1.2	0.60	0.63	0.84	1.1	0.78	<0.10
Ammonia, as Nitrogen	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Cyanide	mg/L	0.12	0.097	0.076	0.084	0.074	0.067	0.064	0.070
WAD Cyanide	mg/L	0.012	0.011	<0.010	<0.010	<0.050	0.012	0.016	<0.010

Table 6-102.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63316 (continued)

		63316 (25, Mar) Humidity Cell	63316 (1, Apr) Humidity Cell	63316 (8, Apr) Humidity Cell	63316 (15, Apr) Humidity Cell	63316 (22, Apr) Humidity Cell	63316 (6, May) Humidity Cell	63316 (20, May) Humidity Cell	63316 (3, Jun) Humidity Cell
	WET Lab No.:	1303472	1304011	1304141	1304261	1304391	1305109	1305401	1306005
	Report Date:	1-Apr-13	8-Apr-13	15-Apr-13	22-Apr-13	29-Apr-13	14-May-13	29-May-13	17-Jun-13
Constituent	**Unit**								
pH	pH Units	8.81	8.79	8.80	8.75	8.71	8.75	8.78	8.71
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	-70	--	--	--	--
Bicarbonate (HCO3)	mg/L	410	390	400	400	410	330	310	280
Carbonate (CO3)	mg/L	25	26	23	22	20	20	19	15
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	380	370	370	370	370	300	290	260
Redox Potential	mV	-116	-88	-119	-155	-5	-75	-106	-57
Chloride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.16
Fluoride	mg/L	1.1	1.0	1.0	1.0	0.90	1.0	1.0	1.0
Sulfate	mg/L	110	89	89	92	77	120	130	110
Nitrate Nitrogen	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.085
Nitrite Nitrogen	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.096
Total Kjeldahl Nitrogen	mg/L	0.40	0.51	0.34	0.43	0.38	0.43	0.40	0.38
Total Nitrogen	mg/L	0.40	0.51	0.34	0.43	0.38	0.43	0.40	0.56
Total Cyanide	mg/L	0.054	0.049	0.042	0.049	0.038	0.049	0.054	0.038
Total Dissolved Solids (TDS)	mg/L	630	570	580	570	570	510	520	450
WAD Cyanide	mg/L	<0.010	<0.010	<0.010	0.018	0.013	<0.010	0.016	<0.010
Electrical Conductivity	µmhos/cm	880	850	880	870	830	780	740	650
Aluminum	mg/L	2.0	2.0	1.8	2.1	1.6	2.6	2.8	2.1
Barium	mg/L	0.024	0.022	0.029	0.027	0.021	0.029	0.034	0.026
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.02	<0.10	0.032	0.031	0.027	0.027	0.030	0.024
Calcium	mg/L	5.4	5.3	5.9	6.3	5.4	6.0	7.4	5.4
Cobalt	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	<0.0020
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	1.2	1.3	1.2	1.4	0.99	1.4	1.6	1.3
Lithium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Magnesium	mg/L	0.31	0.39	0.43	0.40	0.37	0.40	0.37	0.31
Manganese	mg/L	0.030	0.032	0.032	0.031	0.023	0.036	0.044	0.032
Molybdenum	mg/L	<0.0050	0.0060	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Phosphorus	mg/L	0.49	0.46	0.54	0.49	0.45	0.54	0.52	0.51
Potassium	mg/L	3.5	3.5	3.6	3.7	3.7	3.2	3.2	2.9
Scandium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon	mg/L	19	18	19	21	17	24	25	22
Sodium	mg/L	190	200	200	220	200	180	160	140
Strontium	mg/L	0.06	<0.10	0.070	0.073	0.065	0.070	0.077	0.055
Tin	mg/L	<0.010	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.04	<0.10	0.033	0.035	0.026	0.037	0.045	0.032
Vanadium	mg/L	0.022	0.022	0.026	0.025	0.023	0.031	0.032	0.032
Zinc	mg/L	0.037	0.034	0.038	0.037	0.028	0.040	0.050	0.041
Antimony	mg/L	0.43	0.50	0.48	0.45	0.38	0.47	0.50	0.46
Arsenic	mg/L	2.7	2.9	2.7	2.4	2.1	2.6	3.2	2.8
Beryllium	mg/L	<0.00035	<0.00035	<0.00035	<0.00035	0.0005	<0.00035	0.0011	0.00042
Cadmium	mg/L	<0.0009	<0.00090	<0.00090	<0.00090	<0.00090	0.0012	<0.00090	<0.00090
Chromium	mg/L	<0.0010	0.0011	0.0022	0.0016	0.0023	0.0021	0.0023	0.0026
Copper	mg/L	0.014	0.020	0.020	0.021	0.016	0.025	0.024	0.023
Lead	mg/L	0.23	0.20	0.24	0.21	0.16	0.28	0.32	0.24
Nickel	mg/L	0.0027	0.0033	0.0025	0.0032	0.0024	0.0034	0.0036	0.0033
Selenium	mg/L	0.011	0.010	0.0098	0.0097	0.0083	0.011	0.011	0.010
Silver	mg/L	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Thallium	mg/L	<0.0004	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Uranium	mg/L	0.069	0.054	0.054	0.052	0.046	0.043	0.040	0.028
Mercury	mg/L	<0.00010	0.00010	<0.00010	<0.00010	<0.0010	<0.00010	<0.00010	<0.00010
Anions	meq/L	9.90	9.16	9.23	--	9.04	8.63	8.47	7.44
Cations	meq/L	8.91	9.35	9.35	--	9.30	8.58	7.81	6.74
Error	%	5.2	<1.0	<1.0	--	1.4	<1.0	4.1	5.0
Cyanate	mg/L	0.43	0.13	<0.20	0.08	<0.050	<0.050	<0.050	0.13
Thiocyanate	mg/L	0.14	0.34	<0.10	0.31	0.23	<0.10	0.24	<0.10
Ammonia, as Nitrogen	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Table 6-103.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63316 (continued)

		63316 (17, Jun) Humidity Cell	63316 (1, Jul) Humidity Cell	63316 (15, Jul) Humidity Cell	63316 (29, Jul) Humidity Cell	63316 (12, Aug) Humidity Cell	63316 (26, Aug) Humidity Cell	63316 (9, Sep) Humidity Cell
	WET Lab No.:	1306373	1307018	1307323	1307665	1308215	1308505	1309142
	Report Date:	27-Jun-13	15-Jul-13	22-Jul-13	5-Aug-13	27-Aug-13	6-Sep-13	17-Sep-13
Constituent	**Unit**							
pH	pH Units	8.72	8.67	8.68	8.61	7.54	8.01	8.49
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	290	280	290	290	39	260	190
Carbonate (CO3)	mg/L	14	15	14	14	<1.0	<1.0	5.1
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	260	260	260	260	32	220	160
Redox Potential	mV	-141	-81	-134	-53	-64	-155	-166
Chloride	mg/L	<0.10	0.35	0.14	0.79	<0.10	0.51	0.17
Fluoride	mg/L	0.95	<1.0	0.95	0.89	<0.10	0.72	0.46
Sulfate	mg/L	120	79	100	95	5.2	84	150
Nitrate Nitrogen	mg/L	0.098	0.089	0.12	0.34	<0.010	0.23	0.17
Nitrite Nitrogen	mg/L	0.080	0.16	0.081	0.083	0.069	0.070	0.071
Total Kjeldahl Nitrogen	mg/L	0.45	0.54	0.68	0.81	0.10	1.8	0.70
Total Nitrogen	mg/L	0.63	0.78	0.88	1.2	0.17	2.1	0.94
Total Cyanide	mg/L	0.045	0.053	<0.010	<0.010	<0.010	0.097	0.033
Total Dissolved Solids (TDS)	mg/L	490	480	470	450	49	520	440
WAD Cyanide	mg/L	0.011	0.018	<0.010	<0.010	<0.010	<0.010	<0.010
Electrical Conductivity	µmhos/cm	700	650	660	680	75	590	680
Aluminum	mg/L	2.9	2.6	3.6	2.3	0.27	6.4	1.1
Barium	mg/L	0.034	0.032	0.048	0.031	0.0078	0.068	0.012
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.024	0.025	0.026	0.033	<0.020	0.038	0.020
Calcium	mg/L	7.4	7.1	8.8	6.9	3.1	13	4.5
Cobalt	mg/L	0.0025	<0.0020	0.0023	0.0020	<0.0020	0.010	<0.0020
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	1.6	1.5	2.0	1.4	0.16	4.6	0.62
Lithium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Magnesium	mg/L	0.36	0.38	0.54	0.34	<0.25	0.91	<0.25
Manganese	mg/L	0.043	0.043	0.048	0.041	0.0061	0.086	0.0089
Molybdenum	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0062	<0.0050
Phosphorus	mg/L	0.53	0.50	0.80	0.52	0.23	0.95	0.34
Potassium	mg/L	3.4	3.5	4.8	3.9	0.46	5.0	4.0
Scandium	mg/L	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	0.0019	<0.0010
Silicon	mg/L	26	26	--	25	1.9	38	17
Sodium	mg/L	150	140	190	150	14	160	140
Strontium	mg/L	0.075	0.068	0.084	0.069	0.025	0.12	0.061
Tin	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.042	0.037	0.044	0.031	<0.0050	0.068	0.013
Vanadium	mg/L	0.031	0.034	0.034	0.026	<0.010	0.032	0.013
Zinc	mg/L	0.052	0.054	0.063	0.060	<0.010	0.076	<0.010
Antimony	mg/L	0.50	0.54	0.55	0.52	0.073	0.43	0.26
Arsenic	mg/L	2.3	2.5	2.1	1.7	0.15	2.5	1.1
Beryllium	mg/L	<0.0035	0.0004	0.00058	<0.00035	<0.00035	0.0009	<0.00035
Cadmium	mg/L	<0.0090	<0.00090	<0.00090	<0.00090	<0.00090	<0.00090	<0.00090
Chromium	mg/L	<0.010	0.0019	0.0022	0.0017	<0.0010	0.0040	<0.0010
Copper	mg/L	<0.025	0.031	0.023	0.020	0.0037	0.087	0.015
Lead	mg/L	0.31	0.28	0.33	0.24	0.11	0.53	0.085
Nickel	mg/L	<0.010	0.0039	0.0038	0.0032	<0.0010	0.012	0.0022
Selenium	mg/L	<0.020	0.0098	0.0089	0.0094	<0.0020	0.049	0.0090
Silver	mg/L	<0.015	<0.0015	<0.0015	<0.0015	<0.0015	0.0015	<0.0015
Thallium	mg/L	<0.0040	<0.00040	<0.00040	<0.00040	<0.0010	<0.00040	<0.00040
Uranium	mg/L	0.030	0.028	0.029	0.031	0.0026	0.053	0.031
Mercury	mg/L	0.00011	0.00014	0.00010	<0.00010	<0.00010	0.00028	<0.00010
Anions	meq/L	7.78	6.75	7.36	7.29	0.75	6.08	6.45
Cations	meq/L	7.39	6.91	9.38	7.30	0.80	8.79	6.58
Error	%	2.5	1.1	12	<1.0	3.6	18	<1.0
Cyanate	mg/L	<0.10	0.06	0.07	<0.050	<0.10	0.16	0.10
Thiocyanate	mg/L	<0.10	0.27	0.35	0.21	<0.10	0.62	<0.10
Ammonia, as Nitrogen	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.27	0.069

Table 6-104.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63322

Constituent	Unit	63322 (19, Nov) Humidity Cell	63322 (26, Nov) Humidity Cell	63322 (10, Dec) Humidity Cell	63322 (17, Dec) Humidity Cell	63322 (24, Dec) Humidity Cell
	WET Lab No.:	1211340	1211413	1212169	1212310	1212518
	Report Date:	4-Dec-12	5-Dec-12	26-Dec-12	28-Dec-12	4-Jan-13
Constituent	**Unit**					
pH	pH Units	8.78	8.75	8.88	8.87	8.99
Acidity (Titrimetric)	mg/L as CaCO3	-124	-119	-183	-165	-115
Bicarbonate (HCO3)	mg/L	670	630	580	430	880
Carbonate (CO3)	mg/L	44	39	49	38	89
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	620	580	560	420	870
Redox Potential	mV	200	44	240	220	270
Total Kjeldahl Nitrogen	mg/L	7.5	1.8	0.89	1.3	4.3
Total Nitrogen	mg/L	23	4.2	1.2	1.6	11
Total Dissolved Solids (TDS)	mg/L	2600	2600	2400	1300	1400
Electrical Conductivity	µmhos/cm	4200	4000	3600	2100	2100
Chloride	mg/L	130	100	85	2.8	44
Fluoride	mg/L	1.3	1.2	1.2	1.4	2.0
Sulfate	mg/L	1100	1200	1100	390	150
Nitrate Nitrogen	mg/L	15	2.0	0.74	<1.0	1.3
Nitrite Nitrogen	mg/L	0.86	0.42	0.26	0.28	6.3
Aluminum	mg/L	0.54	0.46	0.95	1.4	8.2
Barium	mg/L	0.024	0.024	0.021	0.020	0.072
Beryllium	mg/L	<0.0004	0.0002	<0.0010	0.0005	0.0011
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.18	0.16	0.16	0.16	0.22
Cadmium	mg/L	<0.0020	<0.0020	0.0011	<0.0002	0.0004
Calcium	mg/L	10	8.9	11	6.9	19
Chromium	mg/L	<0.0010	0.0015	0.0015	0.0018	0.021
Cobalt	mg/L	0.024	0.010	0.01	0.008	0.024
Copper	mg/L	0.10	0.076	0.27	0.51	1.3
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	0.26	0.24	0.50	0.76	7.5
Lithium	mg/L	0.17	0.17	0.15	0.09	0.10
Magnesium	mg/L	3.1	3.0	2.6	1.1	2.7
Manganese	mg/L	0.0068	0.0051	0.013	0.021	0.13
Molybdenum	mg/L	0.014	<0.0050	0.007	0.005	0.015
Nickel	mg/L	<0.0020	<0.0020	0.0035	0.014	0.27
Phosphorus	mg/L	0.26	0.19	0.25	0.38	0.70
Potassium	mg/L	11	12	9.5	5.6	7.2
Scandium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.00
Silver	mg/L	0.0006	0.0011	0.0015	<0.0025	0.0071
Sodium	mg/L	1000	1100	810	470	500
Strontium	mg/L	0.33	0.33	0.29	0.12	0.32
Tin	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.01	0.01	0.02	0.03	0.08
Vanadium	mg/L	0.018	0.017	0.017	0.020	0.045
Zinc	mg/L	0.016	0.011	0.031	0.030	0.41
Mercury	mg/L	<0.0007	<0.0007	0.00034	0.0004	<0.00077
Antimony	mg/L	0.42	0.35	0.41	0.42	0.34
Arsenic	mg/L	2.7	2.5	2.7	3.5	6.2
Lead	mg/L	0.071	0.053	0.11	0.15	0.38
Selenium	mg/L	<0.020	<0.020	0.014	0.013	0.018
Thallium	mg/L	<0.0020	<0.0002	<0.0002	<0.0002	<0.0002
Anions	meq/L	--	--	--	--	--
Cations	meq/L	--	--	--	--	--
Error	%	--	--	--	--	--
Cyanate	mg/L	13	8.5	5.3	4.2	3.5
Thiocyanate	mg/L	5.3	2.5	1.2	1.7	9.9
Ammonia, as Nitrogen	mg/L	6.2	0.55	0.33	0.16	0.60
Total Cyanide	mg/L	0.14	0.17	0.33	0.48	1.2
Cyanide, WAD	mg/L	0.033	0.065	0.16	0.48	1.2
Silicon	mg/L	13	13	16	16	33
Uranium	mg/L	0.18	0.14	0.12	0.052	0.066
Total Organic Carbon	mg/L	--	--	7.6	--	--

Table 6-105.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63322 (continued)

Constituent	Unit	63322 (31, Dec) Humidity Cell	63322 (7, Jan) Humidity Cell	63322 (14, Jan) Humidity Cell	63322 (21, Jan) Humidity Cell	63322 (28, Jan) Humidity Cell
	WET Lab No.:	1301003	1301079	1301186	1301295	1301402
	Report Date:	10-Jan-13	15-Jan-13	22-Jan-13	28-Jan-13	2-Feb-13
Constituent	**Unit**					
pH	pH Units	8.82	8.92	8.90	8.85	8.76
Acidity (Titrimetric)	mg/L as CaCO3	-129	-133	-135	-101	-145
Bicarbonate (HCO3)	mg/L	690	670	630	650	640
Carbonate (CO3)	mg/L	49	62	61	35	29
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	650	660	620	590	570
Redox Potential	mV	300	250	290	330	370
Total Kjeldahl Nitrogen	mg/L	0.90	0.62	0.65	0.64	0.64
Total Nitrogen	mg/L	1.3	0.70	0.71	0.68	0.64
Total Dissolved Solids (TDS)	mg/L	780	790	730	720	700
Electrical Conductivity	µmhos/cm	1200	1200	1200	1100	1100
Chloride	mg/L	1.3	0.38	0.21	0.25	0.27
Fluoride	mg/L	1.4	1.1	1.1	1.1	1.1
Sulfate	mg/L	28	21	20	23	26
Nitrate Nitrogen	mg/L	0.39	<0.10	<0.10	0.034	<0.10
Nitrite Nitrogen	mg/L	0.36	0.078	0.061	0.046	<0.010
Aluminum	mg/L	3.1	2.3	2.2	2.1	2.0
Barium	mg/L	0.029	0.026	0.026	0.025	0.025
Beryllium	mg/L	0.0002	0.0006	0.0004	0.0005	<0.0002
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.13	0.14	0.12	0.11	0.11
Cadmium	mg/L	<0.0002	<0.0002	0.0006	0.0004	<0.0002
Calcium	mg/L	6.6	5.2	5.3	5.1	5.1
Chromium	mg/L	0.0034	0.0027	0.0026	0.0025	0.0028
Cobalt	mg/L	0.006	0.005	0.005	0.004	0.0039
Copper	mg/L	0.29	0.23	0.23	0.14	0.11
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	2.0	1.2	1.2	1.1	1.1
Lithium	mg/L	0.06	0.06	0.06	0.05	0.056
Magnesium	mg/L	0.82	0.66	0.65	0.60	0.65
Manganese	mg/L	0.046	0.036	0.033	0.033	0.032
Molybdenum	mg/L	0.005	0.005	<0.0050	<0.0050	<0.0050
Nickel	mg/L	0.0096	0.0035	0.0031	0.0028	0.0027
Phosphorus	mg/L	0.58	0.53	0.54	0.48	0.39
Potassium	mg/L	4.1	3.8	3.7	3.4	3.6
Scandium	mg/L	0.00	<0.0010	<0.0010	<0.0010	<0.0010
Silver	mg/L	0.0026	0.0006	<0.0005	<0.0005	0.00051
Sodium	mg/L	280	290	270	240	250
Strontium	mg/L	0.10	0.09	0.08	0.08	0.078
Tin	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.07	0.07	0.07	0.07	0.077
Vanadium	mg/L	0.021	0.023	0.026	0.024	0.021
Zinc	mg/L	0.084	0.054	0.045	0.041	0.038
Mercury	mg/L	<0.0007	<0.0007	<0.0004	<0.0007	0.00087
Antimony	mg/L	0.35	0.34	0.35	0.29	0.31
Arsenic	mg/L	4.3	4.0	3.8	3.2	3.2
Lead	mg/L	0.26	0.25	0.24	0.21	0.22
Selenium	mg/L	0.014	0.014	0.014	0.012	0.0089
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Anions	meq/L	13.6	13.6	12.8	12.4	12.1
Cations	meq/L	11.8	12.0	11.1	11.1	11.6
Error	%	7.0	6.1	7.3	5.3	2.1
Cyanate	mg/L	3.2	2.3	2.0	2.8	2.9
Thiocyanate	mg/L	1.9	1.9	1.2	1.0	1.3
Ammonia, as Nitrogen	mg/L	0.45	0.072	<0.050	<0.050	<0.050
Total Cyanide	mg/L	0.12	0.090	0.056	0.041	0.046
Cyanide, WAD	mg/L	0.082	0.066	0.029	0.015	0.017
Silicon	mg/L	20	19	19	18	18
Uranium	mg/L	0.063	0.069	0.071	0.053	0.053

Table 6-106.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63322 (continued)

		63322 (4, Feb) Humidity Cell	63322 (11, Feb) Humidity Cell	63322 (18, Feb) Humidity Cell	63322 (25, Feb) Humidity Cell	63322 (4, Mar) Humidity Cell	63322 (11, Mar) Humidity Cell	63322 (18, Mar) Humidity Cell	63322 (25, Mar) Humidity Cell
	WET Lab No.:	1302024	1302163	1302292	1302382	1303031	1303185	1303326	1303472
	Report Date:	15-Feb-13	15-Feb-13	4-Mar-13	1-Mar-13	11-Mar-13	27-Mar-13	25-Mar-13	1-Apr-13
Constituent	**Unit**								
pH	pH Units	8.68	8.84	8.60	8.77	8.63	9.11	8.71	8.76
Acidity (Titrimetric)	mg/L as CaCO3	-93	-74	-15	-102	-37	--	--	--
Bicarbonate (HCO3)	mg/L	650	620	630	600	580	750	570	480
Carbonate (CO3)	mg/L	23	40	17	29	19	94	25	26
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	570	580	540	540	500	770	510	430
Redox Potential	mV	320	290	180	440	24	-91	-60	-182
Total Kjeldahl Nitrogen	mg/L	0.88	1.1	0.96	0.58	0.47	2.3	0.43	0.46
Total Nitrogen	mg/L	0.88	1.1	0.96	0.64	0.49	11	0.52	0.47
Total Dissolved Solids (TDS)	mg/L	670	680	710	620	620	1100	660	570
Electrical Conductivity	µmhos/cm	1100	1100	1000	1000	960	1700	1000	860
Chloride	mg/L	0.20	0.20	1.1	<0.10	<0.10	17	<0.10	<0.10
Fluoride	mg/L	1.0	0.93	0.84	0.75	0.72	1.5	0.65	0.66
Sulfate	mg/L	25	25	24	23	24	73	38	44
Nitrate Nitrogen	mg/L	<0.010	<0.010	0.061	0.023	0.017	0.28	<0.010	<0.010
Nitrite Nitrogen	mg/L	<0.010	<0.010	<0.010	0.033	<0.010	8.0	0.084	0.012
Aluminum	mg/L	1.8	2.1	2.2	2.0	1.8	1.6	2.2	2.2
Barium	mg/L	0.025	0.027	0.029	0.027	0.023	0.030	0.036	0.030
Beryllium	mg/L	<0.0002	<0.0002	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.094	0.095	0.084	0.078	0.076	0.17	0.078	0.05
Cadmium	mg/L	<0.0002	<0.0002	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009
Calcium	mg/L	5.3	5.1	5.5	5.8	5.0	5.8	6.5	5.2
Chromium	mg/L	0.0025	0.0028	0.0042	0.0026	0.0025	0.012	0.0054	0.0014
Cobalt	mg/L	0.004	0.004	0.003	0.0030	0.003	0.013	0.0029	0.002
Copper	mg/L	0.13	0.093	0.077	0.068	0.075	0.37	0.11	0.051
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	1.1	1.3	1.5	1.2	1.1	1.3	1.3	1.4
Lithium	mg/L	0.05	0.05	0.06	0.053	0.05	0.09	0.054	0.04
Magnesium	mg/L	0.65	0.69	0.71	0.68	0.60	2.6	0.76	0.60
Manganese	mg/L	0.033	0.036	0.040	0.035	0.032	0.035	0.037	0.036
Molybdenum	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.008	<0.0050	<0.0050
Nickel	mg/L	0.0029	0.0034	0.0036	0.0035	0.0032	0.15	0.0080	0.0050
Phosphorus	mg/L	0.35	0.40	0.43	0.42	0.42	0.70	0.43	0.43
Potassium	mg/L	3.6	3.7	3.7	3.6	3.1	5.7	3.6	3.3
Scandium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	<0.0010
Silicon	mg/L	18	19	18	18	18	19	19	18
Silver	mg/L	<0.0005	<0.0005	<0.0015	<0.0015	<0.0015	0.0023	<0.0015	<0.0015
Sodium	mg/L	250	240	240	230	210	370	230	200
Strontium	mg/L	0.08	0.08	0.08	0.081	0.07	0.08	0.090	0.07
Tin	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.07	0.08	0.08	0.076	0.07	0.07	0.072	0.07
Vanadium	mg/L	0.020	0.020	0.018	0.020	0.015	0.034	0.018	0.016
Zinc	mg/L	0.046	0.037	0.039	0.047	0.036	0.10	0.10	0.053
Mercury	mg/L	<0.0007	<0.0007	<0.0010	<0.0010	0.00010	<0.0010	<0.0010	<0.00010
Antimony	mg/L	0.29	0.30	0.28	0.25	0.26	0.37	0.24	0.18
Arsenic	mg/L	2.9	2.8	2.7	2.4	2.3	4.2	2.2	1.7
Lead	mg/L	0.22	0.23	0.23	0.23	0.21	0.22	0.22	0.22
Selenium	mg/L	<0.0020	0.0080	0.0071	0.0089	<0.0020	0.014	0.0053	0.0065
Thallium	mg/L	<0.0002	<0.0002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Uranium	mg/L	0.046	0.047	0.044	0.043	0.042	0.082	0.047	0.048
Anions	meq/L	12.0	12.1	11.5	11.3	10.7	17.5	11.0	9.68
Cations	meq/L	11.6	10.4	11.0	9.69	9.78	15.9	10.8	9.42
Error	%	1.9	7.4	1.9	7.8	4.4	4.9	<1.0	1.4
Cyanate	mg/L	3.1	3.2	4.9	3.2	2.7	<0.15	0.62	0.41
Thiocyanate	mg/L	1.3	1.1	0.96	1.1	0.81	1.7	0.13	0.41
Ammonia, as Nitrogen	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.18	<0.050	<0.050
Total Cyanide	mg/L	0.033	0.046	0.033	0.050	0.038	0.60	0.048	0.041
WAD Cyanide	mg/L	<0.010	0.024	<0.010	<0.050	0.030	0.48	0.019	0.014

Table 6-107.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63322 (continued)

		63322 (1, Apr) Humidity Cell	63322 (8, Apr) Humidity Cell	63322 (15, Apr) Humidity Cell	63322 (22, Apr) Humidity Cell	63322 (6, May) Humidity Cell	63322 (20, May) Humidity Cell	63322 (3, Jun) Humidity Cell	63322 (17, Jun) Humidity Cell
	WET Lab No.:	1304011	1304141	1304261	1304391	1305109	1305401	1306005	1306373
	Report Date:	8-Apr-13	15-Apr-13	22-Apr-13	29-Apr-13	14-May-13	29-May-13	17-Jun-13	27-Jun-13
Constituent	**Unit**								
pH	pH Units	8.75	8.78	8.68	8.61	8.68	8.65	8.57	9.04
Acidity (Titrimetric)	mg/L as CaCO3	--	--	-54	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	460	470	440	450	420	420	410	550
Carbonate (CO3)	mg/L	25	24	19	15	19	16	12	60
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	420	420	390	390	380	370	360	550
Redox Potential	mV	-128	-150	-178	-48	-128	-186	-206	-218
Chloride	mg/L	<0.10	<0.10	<0.10	<0.10	0.11	0.12	0.10	7.3
Fluoride	mg/L	0.60	0.63	0.56	0.56	0.57	0.54	0.59	0.88
Sulfate	mg/L	48	58	62	76	80	38	33	53
Nitrate Nitrogen	mg/L	0.011	<0.010	<0.010	<0.010	<0.010	0.084	0.089	0.28
Nitrite Nitrogen	mg/L	0.042	0.015	0.028	0.040	0.062	0.14	0.14	6.5
Total Kjeldahl Nitrogen	mg/L	0.40	0.34	0.28	0.32	1.5	1.9	2.6	5.9
Total Nitrogen	mg/L	0.45	0.35	0.28	0.32	1.6	2.2	2.8	13
Total Cyanide	mg/L	0.041	0.068	0.041	0.067	2.3	2.3	3.9	6.0
Total Dissolved Solids (TDS)	mg/L	560	570	540	560	520	490	460	770
WAD Cyanide	mg/L	0.024	0.049	0.024	0.036	1.9	2.2	3.7	5.6
Electrical Conductivity	µmhos/cm	860	920	870	930	840	760	720	1200
Aluminum	mg/L	2.1	1.4	1.5	1.4	1.4	1.2	1.1	2.4
Barium	mg/L	0.029	0.022	0.023	0.022	0.021	0.019	0.018	0.055
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.060	0.067	0.060	0.052	0.048	0.044	0.039	0.12
Calcium	mg/L	5.8	4.9	5.0	4.2	4.7	4.7	4.5	15
Cobalt	mg/L	0.0023	0.0026	<0.0020	0.0021	0.0050	0.011	0.036	0.030
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	1.4	0.87	0.99	0.94	0.86	0.84	0.70	4.0
Lithium	mg/L	0.044	0.043	0.044	0.041	0.044	0.038	0.037	0.077
Magnesium	mg/L	0.61	0.56	0.59	0.54	0.56	0.50	0.47	2.8
Manganese	mg/L	0.035	0.026	0.025	0.023	0.024	0.025	0.022	0.071
Molybdenum	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Phosphorus	mg/L	0.39	0.42	<0.50	0.39	0.36	0.35	0.33	0.56
Potassium	mg/L	3.1	3.0	3.2	3.0	3.0	2.9	2.8	4.8
Scandium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010
Silicon	mg/L	18	16	17	16	16	15	15	19
Sodium	mg/L	200	210	230	200	210	170	160	270
Strontium	mg/L	0.071	0.069	0.070	0.059	0.070	0.063	0.058	0.21
Tin	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.074	0.047	0.051	0.046	0.042	0.039	0.035	0.046
Vanadium	mg/L	0.016	0.018	0.019	0.018	0.016	0.014	0.012	0.024
Zinc	mg/L	0.042	0.037	0.028	0.025	0.028	0.026	0.022	0.53
Antimony	mg/L	0.22	0.21	0.20	0.21	0.20	0.19	0.21	0.29
Arsenic	mg/L	1.8	1.7	1.6	1.5	1.4	1.4	1.5	2.5
Beryllium	mg/L	<0.00035	0.0004	<0.00035	0.0004	<0.00035	0.00093	<0.00035	<0.0035
Cadmium	mg/L	<0.00090	<0.00090	<0.00090	<0.00090	<0.00090	<0.00090	<0.00090	<0.0090
Chromium	mg/L	0.0020	0.0029	0.0019	0.0030	0.0021	0.0020	0.0030	0.024
Copper	mg/L	0.049	0.043	0.032	0.026	1.1	1.7	3.1	3.4
Lead	mg/L	0.20	0.18	0.17	0.17	0.18	0.16	0.17	0.23
Nickel	mg/L	0.0041	0.0024	0.0026	0.0021	0.13	0.14	0.18	0.69
Selenium	mg/L	0.0067	0.0061	0.0062	0.0062	0.010	0.0086	0.0079	<0.020
Silver	mg/L	<0.0015	<0.0015	<0.0015	<0.0015	0.032	0.042	0.036	0.024
Thallium	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.0040
Uranium	mg/L	0.045	0.046	0.048	0.049	0.050	0.045	0.043	0.071
Mercury	mg/L	<0.00010	0.00015	<0.00010	<0.0010	0.00037	0.00027	0.00029	0.00035
Anions	meq/L	9.40	9.74	--	9.49	9.29	8.33	7.99	12.6
Cations	meq/L	9.43	9.71	--	9.24	9.74	7.95	7.53	13.5
Error	%	<1.0	<1.0	--	1.3	2.4	2.3	2.9	3.4
Cyanate	mg/L	0.15	<0.20	0.09	0.09	0.09	<0.050	<0.050	2.4
Thiocyanate	mg/L	0.48	0.16	0.14	0.22	0.36	0.65	0.98	2.1
Ammonia, as Nitrogen	mg/L	<0.050	<0.050	<0.050	0.051	0.13	0.31	0.33	1.1

Table 6-108.
Eagle Gold Project
Humidity Cell Test Solution Analyses - KCA Test No. 63322 (continued)

		63322 (1, Jul) Humidity Cell	63322 (15, Jul) Humidity Cell	63322 (29, Jul) Humidity Cell	63322 (12, Aug) Humidity Cell	63322 (26, Aug) Humidity Cell	63322 (9, Sep) Humidity Cell
	WET Lab No.:	1307018	1307323	1307665	1308215	1308505	1309142
	Report Date:	15-Jul-13	22-Jul-13	5-Aug-13	27-Aug-13	6-Sep-13	17-Sep-13
Constituent	**Unit**						
pH	pH Units	8.49	8.48	8.40	8.42	8.32	8.30
Acidity (Titrimetric)	mg/L as CaCO3	--	--	--	--	--	--
Bicarbonate (HCO3)	mg/L	380	370	350	310	300	280
Carbonate (CO3)	mg/L	8.4	7.3	5.5	5.0	2.1	<1.0
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity	mg/L as CaCO3	320	320	300	260	250	230
Redox Potential	mV	-260	-238	-67	-96	-138	-150
Chloride	mg/L	0.30	<0.10	<0.10	0.20	0.12	<0.10
Fluoride	mg/L	<1.0	0.43	0.40	0.38	0.37	0.32
Sulfate	mg/L	17	16	28	65	79	63
Nitrate Nitrogen	mg/L	0.086	0.086	0.080	<0.010	<0.010	0.081
Nitrite Nitrogen	mg/L	<0.010	0.13	0.099	<0.010	<0.010	0.10
Total Kjeldahl Nitrogen	mg/L	3.4	3.0	0.57	0.51	0.32	0.34
Total Nitrogen	mg/L	3.5	3.3	0.75	0.51	0.32	0.53
Total Cyanide	mg/L	2.2	3.6	<0.010	0.014	0.010	0.011
Total Dissolved Solids (TDS)	mg/L	420	370	380	420	400	360
WAD Cyanide	mg/L	1.3	3.2	<0.010	<0.010	<0.010	<0.010
Electrical Conductivity	µmhos/cm	630	630	620	630	630	600
Aluminum	mg/L	0.94	1.2	0.77	0.75	0.77	0.66
Barium	mg/L	0.016	0.024	0.015	0.014	0.012	0.0097
Bismuth	mg/L	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075
Boron	mg/L	0.029	0.042	0.038	0.032	0.033	0.024
Calcium	mg/L	5.1	5.9	4.7	4.6	5.0	4.3
Cobalt	mg/L	0.028	0.021	0.0038	0.0020	<0.0020	<0.0020
Gallium	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Iron	mg/L	0.52	0.72	0.53	0.44	0.44	0.35
Lithium	mg/L	0.034	0.044	0.039	0.042	0.045	0.041
Magnesium	mg/L	0.46	0.56	0.44	0.43	0.44	0.37
Manganese	mg/L	0.018	0.022	0.017	0.013	0.013	0.022
Molybdenum	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Phosphorus	mg/L	0.33	0.61	0.45	0.42	0.35	0.27
Potassium	mg/L	2.9	3.6	2.7	2.6	3.4	3.0
Scandium	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon	mg/L	14	--	14	12	12	11
Sodium	mg/L	140	180	140	140	170	130
Strontium	mg/L	0.063	0.070	0.058	0.056	0.058	0.051
Tin	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Titanium	mg/L	0.027	0.028	0.021	0.019	0.018	0.012
Vanadium	mg/L	0.011	0.013	0.011	<0.010	<0.010	<0.010
Zinc	mg/L	0.025	0.032	0.024	0.018	0.016	0.035
Antimony	mg/L	0.18	0.19	0.20	0.18	0.19	0.19
Arsenic	mg/L	1.1	1.1	0.92	0.71	0.68	0.62
Beryllium	mg/L	<0.00035	0.00044	<0.00035	<0.00035	<0.00035	<0.00035
Cadmium	mg/L	<0.00090	<0.00090	<0.00090	<0.00090	<0.00090	<0.00090
Chromium	mg/L	0.0014	0.0015	0.0012	0.0011	<0.0010	<0.0010
Copper	mg/L	3.4	2.4	0.032	0.024	0.023	0.012
Lead	mg/L	0.12	0.12	0.10	0.10	0.089	0.061
Nickel	mg/L	0.12	0.077	0.0052	0.0013	0.0011	0.0022
Selenium	mg/L	0.0075	0.0053	0.0043	0.0031	0.0069	0.0025
Silver	mg/L	0.012	0.0090	<0.0015	<0.0015	<0.0015	<0.0015
Thallium	mg/L	<0.00040	<0.00040	<0.00040	<0.0010	<0.00040	<0.00040
Uranium	mg/L	0.039	0.036	0.040	0.042	0.039	0.031
Mercury	mg/L	0.00014	0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Anions	meq/L	6.93	6.79	6.53	6.63	6.65	5.92
Cations	meq/L	6.67	8.53	6.51	6.49	7.84	6.04
Error	%	1.9	11	<1.0	1.0	8.2	<1.0
Cyanate	mg/L	0.22	0.39	<0.050	<0.10	<0.10	<0.10
Thiocyanate	mg/L	1.7	1.4	<0.10	<0.10	<0.10	<0.10
Ammonia, as Nitrogen	mg/L	0.16	0.35	<0.050	<0.050	<0.050	<0.050

6.6 Percent Slump and Final Apparent Bulk Density

The height of material in each column was measured before leaching, and after detoxification and humidity cell test work (if applicable). This height was utilized to calculate the "slump" during testing as well as to calculate the final apparent bulk density for the material in the column. The percent slump of a column gives an indication of potential permeability problems in production heaps. KCA typically classifies slumps larger than 10% as high.

The height, slump and final apparent bulk density from the column leach tests are presented in Table 6-109.

Table 6-109.
Eagle Gold Project
Percent Slump and Final Apparent Bulk Density

KCA Sample No.	KCA Test No.	Description	Target p80 Size, mm	Initial Ht., meters	Final Ht., meters	Slump, %	Final Apparent Bulk Density, MTdry/m^3
48158	63301	Environmental Composite	6.3	1.530	1.461	4.6%	1.474
48158	63304	Environmental Composite	6.3	1.543	1.495	3.1%	1.438
48158	63307	Environmental Composite	6.3	1.524	1.470	3.5%	1.465
48158	63310	Environmental Composite	6.3	1.556	1.489	4.3%	1.445
48158	63313	Environmental Composite	6.3	1.543	1.486	3.7%	1.446
48158	63316	Environmental Composite	6.3	1.518	1.422	6.3%	1.514
48158	63319	Environmental Composite	6.3	1.492	1.467	1.7%	1.472
48158	63322	Environmental Composite	6.3	1.562	1.486	4.9%	1.449

6.7 Tailings Preparation and Analyses

The tailings material from KCA Test Nos. 63304, 63307, 63310, 63313 and 63319 were dumped, coned three (3) times and quartered. Two (2) opposite quarters were combined and utilized for compacted permeability test work. The remaining two (2) opposite quarters were combined, weighed and oven dried for moisture content. The dried tailings were then utilized for a tail screen analysis with assays by size fraction.

The humidity cell tailings material from select tests (KCA Test No. 63301, 63316 and 63322) were sampled in 20 centimeter intervals, weighed and submitted to SGS Mineral Services in Burnaby, Canada.

A summary of the humidity cell tailings intervals submitted to SGS is presented in Table 6-110.

Table 6-110.
Eagle Gold Project
Humidity Cell Tailings - Interval Samples to SGS

KCA Sample	KCA Test No.	Description	Column Interval, m		Weight, kg
			From	To	
48158	63301	Environmental Composite	Top	0.20	5.52
			0.20	0.40	5.79
			0.40	0.60	5.83
			0.60	0.80	5.76
			0.80	1.00	6.14
			1.00	1.20	4.77
			1.20	Bottom	6.78
48158	63316	Environmental Composite	Top	0.20	5.49
			0.20	0.40	5.54
			0.40	0.60	5.78
			0.60	0.80	6.20
			0.80	1.00	5.98
			1.00	1.20	5.45
			1.20	Bottom	6.44
48158	63322	Environmental Composite	Top	0.20	5.57
			0.20	0.40	5.60
			0.40	0.60	5.62
			0.60	0.80	5.93
			0.80	1.00	5.68
			1.00	1.20	5.67
			1.20	Bottom	7.37

6.7.1 Compacted Permeability Test Work on Column Tailings

The purpose of the compacted permeability test work was to examine the permeability of the tailings material under compaction loading equivalent to heap heights of 25, 50, 75, 100 and 125 meters of overall heap height.

The test cell utilized for modeling the permeability of stacked material at various heap heights was a steel column or cell. Staged axial (vertical) loading of the test material was utilized to simulate the increased pressure obtained when loading the heap.

At the top and at the base of the column were drainage layers. The load was applied to the charge of material utilizing a perforated steel plate of a known diameter. The diameter of the plate was such that the plate moved freely within the walls of the column.

6.7.2 Compacted Permeability Test Procedure

Compacted permeability test work was conducted on the column tailings material from select tests (KCA Test Nos. 63304, 63307, 63310, 63313 and 63319). The material utilized for each test was previously agglomerated with cement (3.0 kilograms per metric tonne of dry ore) for the column leach phase of testing. Separate test samples were loaded into a column and subjected to loads equivalent to 25, 50, 75, 100 and 125 meters of overall heap height (assuming a heap density equivalent to 1.8 tonnes per cubic meter).

The procedure for the compacted permeability tests was as follows:

1. A 20 kilogram portion of previously agglomerated column tailings material was split out, blended and split into four (4) equal portions "lifts".

2. A 5 kilogram portion "lift" was loaded into a 200 millimeter diameter column and the non-compacted height of the material was measured. The material was then compacted utilizing a hydraulic ram and the height of the material within the cell was measured. Additional lifts of equivalent weight were added and compacted until a total of 20 kilograms of material had been added to the column (four lifts).

3. Solution was allowed to flow into the base of the column by a constant head tank at a pressure equal to 31 kilopascals. The column was allowed to flood and the resulting solution in the column was allowed to build up until a solution head of 75 millimeters was obtained.

4. The solution was then allowed to drain from the column while the solution head on the test sample was maintained. The rate at which solution drained from the column was then measured multiple times and the color and clarity of this solution was noted. Overall slump of material in the column was measured.

The "load" applied to the compacted permeability tests was measured using both a pressure gauge located on the hydraulic jack as well as a load cell located underneath the test column. For this test program the "loads" that were utilized were as follows: for a 25 meter equivalent height a load of 1,459 kilograms was utilized, for a 50 meter equivalent height a load of 2,919 kilograms was utilized, for a 75 meter equivalent height a load of 4,378 kilograms was utilized, for a 100 meter equivalent height a load of 5,837 kilograms was utilized, and for a 125 meter equivalent height a load of 7,297 kilograms was utilized.

6.7.3 Discussion of the Compacted Permeability Test Results

These tests are intended to simulate the heap percolation rate at the very bottom of a heap under the compressive load of the respective total heap height.

The overall results of the tests are then examined to determine Pass or Failure. The flow rate, slump, pellet breakdown and solution color and clarity are all monitored to provide meaningful indications and to help judge what represents a "Pass" or "Fail".

Guidelines that KCA utilizes when reviewing the results from this type of test are presented in the following:

1. In KCA's compacted permeability tests, a slump of over 10% is generally an indication of failure. One item also examined is the consistency of results with regard to slump. For instance, if things worked perfectly, a lower slump with higher cement levels could be expected.

2. A typical heap leach solution application rate of 10 to 12 liters per hour per square meter is utilized when examining the agglomeration data. When examining results from this type of agglomeration test a measured flow of ten times (10X) the heap design rate is considered a "pass". A measured flow less than 10X the heap design flow is not necessarily a failure. If there are enough tests with enough consistency between tests, and all other points indicate a "pass," and then sometimes a test will pass with less than the 10X flow. However, a test will not likely pass at 1X and probably not at 5X.

3. In examining the Pellet Breakdown, about 15% is marginally acceptable and anything higher is a failure. In general, a higher range is allowable in Pellet Breakdown as this is a subjective value based on the visual observation of the pellets after the test by the technicians performing the test. When the samples tested are not agglomerated using cement, this test is not applicable.

4. Solution color and clarity typically is an indicator of agglomerate failure and fines migration. This information is utilized in coordination with both slump as well as Pellet Breakdown to determine if the test passes.

All compacted permeability tests passed the criteria put forth by KCA. A summary of the compacted permeability tests conducted on column tailings material is presented in Table 6-111. The results of the individual compacted permeability tests are presented in Tables 6-112 through 6-116.

Table 6-111.
Eagle Gold Project
Environmental Composite
Summary of Compacted Permeability Tests on Column Tailings

KCA Sample No.	KCA Test No.	Description	Cement[1] Added, kg/MT	Effective Height, meters	Flow Rate, LpHr/m^2	Calc. p80 Size, mm	Pellet Breakdown, %	Slump, %	Pass/Fail
63304	67755 A	Environmental Composite	0	25	5,007	5.7	5%	1%	Pass
63307	67755 B	Environmental Composite	0	50	1,532	6.4	5%	1%	Pass
63310	67755 C	Environmental Composite	0	75	790	6.0	5%	0%	Pass
63313	67755 D	Environmental Composite	0	100	756	6.4	5%	1%	Pass
63319	67755 E	Environmental Composite	0	125	741	6.0	5%	0%	Pass

Note (1): Material utilized for compaction testing was previously agglomerated, and no additional cement was utilized.

Table 6-112.
Eagle Gold Project
Environmental Composite
KCA Sample No. 63304
KCA Test No. 67755 A
No Cement Agglomeration
Agglomerated Tailings Material, Calculated 80% passing 5.7 millimeters
Results of Compacted Permeability Test – Applied Load of 1,459 kilograms
Equivalent Load of 25 meters

KCA Sample No.	KCA Test No.	Dry Weight Added to Lift, kg	Column Inside Diameter, meters	Column Area, m^2	Cumulative Calculated Dry Weight, added to Lift, kg	Initial Height, cm	Dry Compacted Height, cm	Final Wet Compacted Height, cm	Dry to Wet Slump, %	Compacted Bulk Density, MT_{dry}/m^3	Visual Pellet Breakdown, %
63304	67755 A	4.91	0.20	0.032	4.91	10.80	8.26	--	--	1.83	--
		4.91	0.20	0.032	9.81	20.00	16.83	--	--	1.80	--
		4.91	0.20	0.032	14.72	28.58	26.04	--	--	1.74	--
		4.91	0.20	0.032	19.62	37.47	34.93	--	--	1.73	--
			0.20	0.032	19.62	--	--	34.61	1%	1.75	5%

KCA Test No.	Type	Load, meters	Out Flow Volume, Liters	Time, minutes	Time, hours	Flow Out, $LpHr/m^2$	Out Flow Solution, Color and Clarity	Cement Addition, kg/MT	Water Addition, milliliters
67755 A	Out flow	25	7.430	2.00	0.0333	6,873	Light Brown & Cloudy	0	0
	Out flow	25	6.680	2.00	0.0333	6,180	Light Brown & Cloudy		
	Out flow	25	5.960	2.00	0.0333	5,514	Light Brown & Cloudy		
	Out flow	25	5.260	2.00	0.0333	4,866	Light Brown & Cloudy		
	Out flow	25	4.660	2.00	0.0333	4,311	Light Brown & Cloudy		
	Out flow	25	4.500	2.00	0.0333	4,163	Light Brown & Cloudy		
Average -						5,007			

Table 6-113.
Eagle Gold Project
Environmental Composite
KCA Sample No. 63307
KCA Test No. 67755 B
No Cement Agglomeration
Agglomerated Tailings Material, Calculated 80% passing 6.4 millimeters
Results of Compacted Permeability Test – Applied Load of 2,919 kilograms
Equivalent Load of 50 meters

KCA Sample No.	KCA Test No.	Dry Weight Added to Lift, kg	Column Inside Diameter, meters	Column Area, m^2	Cumulative Calculated Dry Weight, added to Lift, kg	Initial Height, cm	Dry Compacted Height, cm	Final Wet Compacted Height, cm	Dry to Wet Slump, %	Compacted Bulk Density, MT_{dry}/m^3	Visual Pellet Breakdown, %
63307	67755 B	4.91	0.20	0.032	4.91	10.80	7.30	--	--	2.07	--
		4.91	0.20	0.032	9.82	18.73	15.56	--	--	1.95	--
		4.91	0.20	0.032	14.73	26.67	23.50	--	--	1.93	--
		4.91	0.20	0.032	19.64	35.56	32.07	--	--	1.89	--
			0.20	0.032	19.64	--	--	31.75	1%	1.91	5%

KCA Test No.	Type	Load, meters	Out Flow Volume, Liters	Time, minutes	Time, hours	Flow Out, $LpHr/m^2$	Out Flow Solution, Color and Clarity	Cement Addition, kg/MT	Water Addition, milliliters
67755 B	Out flow	50	3.700	2.00	0.0333	3,423	Light Brown & Cloudy	0	0
	Out flow	50	2.570	2.00	0.0333	2,377	Light Brown & Cloudy		
	Out flow	50	1.820	2.00	0.0333	1,684	Light Brown & Cloudy		
	Out flow	50	1.400	2.00	0.0333	1,295	Light Brown & Cloudy		
	Out flow	50	1.340	2.00	0.0333	1,240	Light Brown & Cloudy		
	Out flow	50	1.150	2.00	0.0333	1,064	Light Brown & Cloudy		
Average -						1,532			

Table 6-114.
Eagle Gold Project
Environmental Composite
KCA Sample No. 63310
KCA Test No. 67755 C
No Cement Agglomeration
Agglomerated Tailings Material, Calculated 80% passing 6.0 millimeters
Results of Compacted Permeability Test – Applied Load of 4,378 kilograms
Equivalent Load of 75 meters

KCA Sample No.	KCA Test No.	Dry Weight Added to Lift, kg	Column Inside Diameter, meters	Column Area, m^2	Cumulative Calculated Dry Weight, added to Lift, kg	Initial Height, cm	Dry Compacted Height, cm	Final Wet Compacted Height, cm	Dry to Wet Slump, %	Compacted Bulk Density, MT_{dry}/m^3	Visual Pellet Breakdown, %
63310	67755 C	4.91	0.20	0.032	4.91	10.80	6.99	--	--	2.17	--
		4.91	0.20	0.032	9.81	18.10	14.61	--	--	2.07	--
		4.91	0.20	0.032	14.72	26.35	22.86	--	--	1.98	--
		4.91	0.20	0.032	19.62	34.61	31.12	--	--	1.94	--
			0.20	0.032	19.62	--	--	31.12	0%	1.94	5%

KCA Test No.	Type	Load, meters	Out Flow Volume, Liters	Time, minutes	Time, hours	Flow Out, $LpHr/m^2$	Out Flow Solution, Color and Clarity	Cement Addition, kg/MT	Water Addition, milliliters
67755 C	Out flow	75	1.650	2.00	0.0333	1,526	Light Brown & Cloudy	0	0
	Out flow	75	1.260	2.00	0.0333	1,166	Light Brown & Cloudy		
	Out flow	75	0.960	2.00	0.0333	888	Light Brown & Cloudy		
	Out flow	75	0.770	2.00	0.0333	712	Light Brown & Cloudy		
	Out flow	75	0.660	2.00	0.0333	611	Light Brown & Cloudy		
	Out flow	75	0.620	2.00	0.0333	574	Light Brown & Cloudy		
Average -						790			

Table 6-115.
Eagle Gold Project
Environmental Composite
KCA Sample No. 63313
KCA Test No. 67755 D
No Cement Agglomeration
Agglomerated Tailings Material, Calculated 80% passing 6.4 millimeters
Results of Compacted Permeability Test – Applied Load of 5,837 kilograms
Equivalent Load of 100 meters

KCA Sample No.	KCA Test No.	Dry Weight Added to Lift, kg	Column Inside Diameter, meters	Column Area, m^2	Cumulative Calculated Dry Weight, added to Lift, kg	Initial Height, cm	Dry Compacted Height, cm	Final Wet Compacted Height, cm	Dry to Wet Slump, %	Compacted Bulk Density, MT_{dry}/m^3	Visual Pellet Breakdown, %
63313	67755 D	4.90	0.20	0.032	4.90	10.48	6.03	--	--	2.50	--
		4.90	0.20	0.032	9.80	17.15	13.97	--	--	2.16	--
		4.90	0.20	0.032	14.70	25.08	21.91	--	--	2.07	--
		4.90	0.20	0.032	19.60	34.93	30.80	--	--	1.96	--
			0.20	0.032	19.60	--	--	30.48	1%	1.98	5%

KCA Test No.	Type	Load, meters	Out Flow Volume, Liters	Time, minutes	Time, hours	Flow Out, $LpHr/m^2$	Out Flow Solution, Color and Clarity	Cement Addition, kg/MT	Water Addition, milliliters
67755 D	Out flow	100	2.092	2.00	0.0333	1,935	Brown & Cloudy	0	0
	Out flow	100	1.359	2.00	0.0333	1,257	Brown & Cloudy		
	Out flow	100	0.921	2.00	0.0333	852	Brown & Cloudy		
	Out flow	100	0.679	2.00	0.0333	628	Brown & Cloudy		
	Out flow	100	0.582	2.00	0.0333	538	Light Brown & Cloudy		
	Out flow	100	0.544	2.00	0.0333	503	Light Brown & Cloudy		
Average -						756			

Table 6-116.
Eagle Gold Project
Environmental Composite
KCA Sample No. 63319
KCA Test No. 67755 E
No Cement Agglomeration
Agglomerated Tailings Material, Calculated 80% passing 6.0 millimeters
Results of Compacted Permeability Test – Applied Load of 7,297 kilograms
Equivalent Load of 125 meters

KCA Sample No.	KCA Test No.	Dry Weight Added to Lift, kg	Column Inside Diameter, meters	Column Area, m^2	Cumulative Calculated Dry Weight, added to Lift, kg	Initial Height, cm	Dry Compacted Height, cm	Final Wet Compacted Height, cm	Dry to Wet Slump, %	Compacted Bulk Density, MT_{dry}/m^3	Visual Pellet Breakdown, %
63319	67755 E	4.92	0.20	0.032	4.92	10.48	6.03	--	--	2.52	--
		4.92	0.20	0.032	9.84	18.10	13.65	--	--	2.22	--
		4.92	0.20	0.032	14.76	25.40	21.59	--	--	2.11	--
		4.92	0.20	0.032	19.68	33.34	29.21	--	--	2.08	--
			0.20	0.032	19.68	--	--	29.21	0%	2.08	5%

KCA Test No.	Type	Load, meters	Out Flow Volume, Liters	Time, minutes	Time, hours	Flow Out, $LpHr/m^2$	Out Flow Solution, Color and Clarity	Cement Addition, kg/MT	Water Addition, milliliters
67755 E	Out flow	125	2.014	2.00	0.0333	1,863	Light Brown & Cloudy	0	0
	Out flow	125	1.669	2.00	0.0333	1,544	Brown & Cloudy		
	Out flow	125	0.936	2.00	0.0333	865	Brown & Cloudy		
	Out flow	125	0.599	2.00	0.0333	554	Light Brown & Cloudy		
	Out flow	125	0.516	2.00	0.0333	477	Light Brown & Cloudy		
	Out flow	125	0.287	2.00	0.0333	265	Light Brown & Cloudy		
Average -						741			

6.7.4 Tail Screen Analyses

For KCA Test Nos. 63304, 63307, 63310, 63313 and 63319, the material apportioned for tail screen analysis was weighed and oven dried for moisture content. The dry tails were then dry screened at 12.5, 9.5, 6.3, 3.35, 1.70, 0.600, 0.212 and 0.075 millimeters.

Each separate size fraction was weighed and crushed to a nominal size of 1.70 millimeters, as necessary. From each size fraction two (2) portions were split out and individually ring and puck pulverized to a target size of 80% passing 0.075 millimeters. The pulverized portions were then assayed using standard fire assaying methods for gold with FAAS finish and wet chemistry methods for silver.

The calculated retained moistures are presented in Table 6-117. The weighted average tailings assays are summarized in Table 6-118. The results are presented graphically in Figure 6-3 and the individual tail screen results are presented in Tables 6-119 through 6-123.

Table 6-117
Eagle Gold Project
Summary of Retained Moisture

KCA Sample No.	KCA Test No.	Description	Days Leached	Target p80 Size, mm	Retained Solution, L/MT_{dryore}
48158	63301	Environmental Composite	143	6.3	63.6
48158	63304	Environmental Composite	143	6.3	68.3
48158	63307	Environmental Composite	143	6.3	62.6
48158	63310	Environmental Composite	143	6.3	50.5
48158	63313	Environmental Composite	143	6.3	58.7
48158	63316	Environmental Composite	143	6.3	63.6
48158	63319	Environmental Composite	143	6.3	80.2
48158	63322	Environmental Composite	143	6.3	63.6

Table 6-118
Eagle Gold Project
Summary of Tailings Screen Analyses

KCA Sample No.	KCA Test No.	Description	Calc. p80 Size, mm	Weighted Avg. Tail Assay, gms Au/MT	Weighted Avg. Tail Assay, gms Ag/MT
48158	63304	Environmental Composite	5.7	0.156	0.20
48158	63307	Environmental Composite	6.4	0.166	0.17
48158	63310	Environmental Composite	6.0	0.164	0.18
48158	63313	Environmental Composite	6.4	0.172	0.21
48158	63319	Environmental Composite	6.0	0.167	0.20
		Average Value:	6.1	0.165	0.19

Figure 6-3.
Eagle Gold Project
Tail Screen Analysis

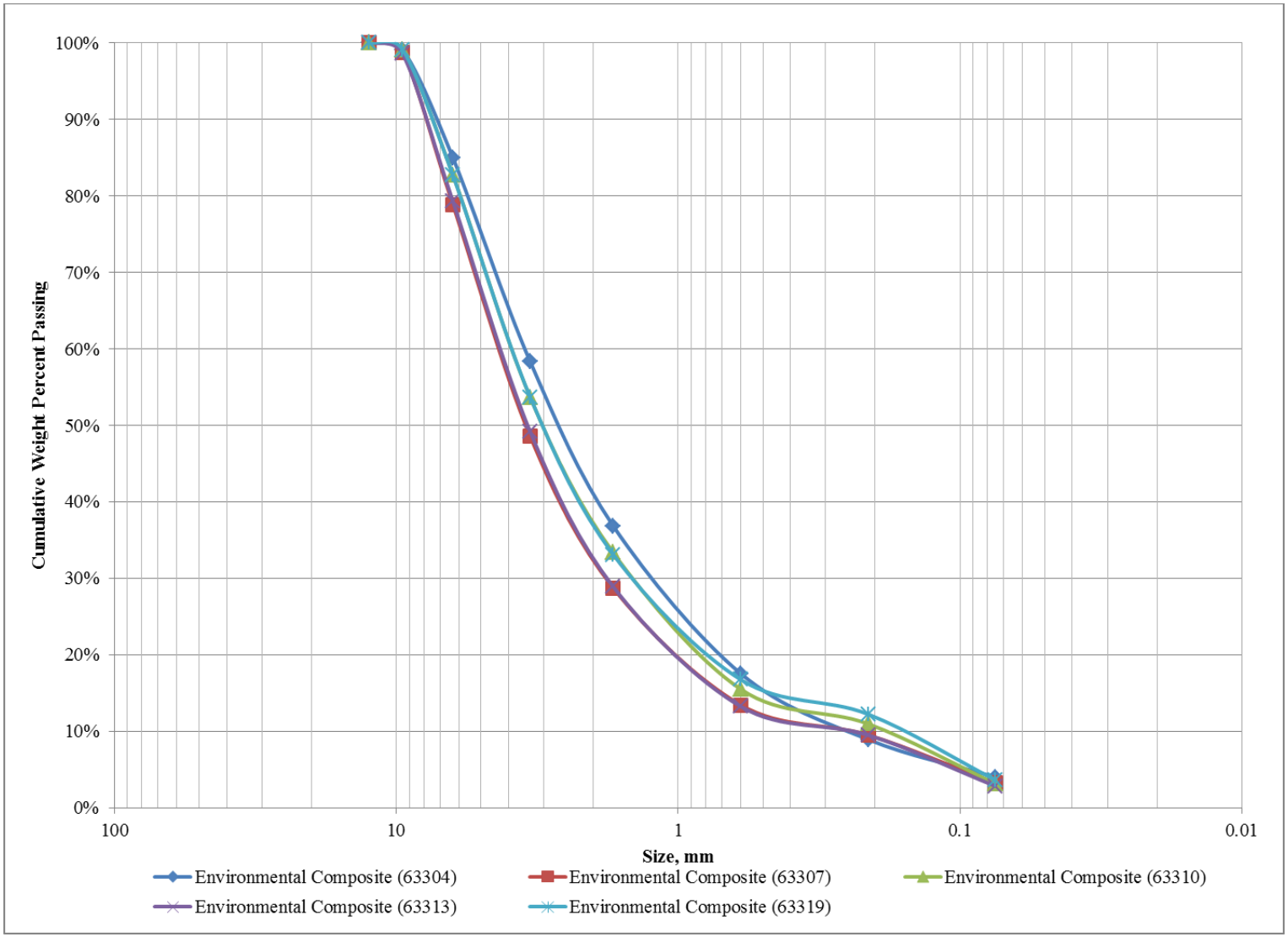


Table 6-119.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63304
Crushed Material, Calculated 80% passing 5.7 millimeters
Tailings Screen Analysis with Assays by Size Fraction

				Dry Screen Analysis				Analysis of Gold Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Assay 1, gms Au/MT	Assay 2, gms Au/MT	Average Assay, gms Au/MT	Weight Au, %
48158	63304		12.5	0.00				---	---	---	---
		12.5	9.5	0.18	0.9%	0.9%	100.0%	0.177	0.168	0.172	1.0%
		9.5	6.3	2.75	14.1%	15.0%	99.1%	0.161	0.161	0.161	14.6%
		6.3	3.35	5.20	26.7%	41.7%	85.0%	0.144	0.151	0.147	25.3%
		3.35	1.70	4.19	21.5%	63.2%	58.3%	0.202	0.206	0.204	28.2%
		1.70	0.600	3.76	19.3%	82.4%	36.8%	0.147	0.151	0.149	18.5%
		0.600	0.212	1.68	8.6%	91.1%	17.6%	0.113	0.113	0.113	6.3%
		0.212	0.075	0.96	4.9%	96.0%	8.9%	0.117	0.120	0.118	3.7%
		0.075	Pan	0.79	4.0%	100.0%	4.0%	0.096	0.099	0.098	2.5%
Total -				19.50	100.0%			0.154	0.157	0.156	100.0%
Detection -								0.010	0.010		

				Dry Screen Analysis				Analysis of Silver Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Assay 1, gms Ag/MT	Assay 2, gms Ag/MT	Average Assay, gms Ag/MT	Weight Ag, %
48158	63304		12.5	0.00				---	---	---	---
		12.5	9.5	0.18	0.9%	0.9%	100.0%	0.21	0.21	0.21	0.9%
		9.5	6.3	2.75	14.1%	15.0%	99.1%	0.21	0.21	0.21	14.4%
		6.3	3.35	5.20	26.7%	41.7%	85.0%	0.21	0.41	0.31	41.0%
		3.35	1.70	4.19	21.5%	63.2%	58.3%	0.10	0.21	0.15	16.5%
		1.70	0.600	3.76	19.3%	82.4%	36.8%	0.21	0.10	0.15	14.8%
		0.600	0.212	1.68	8.6%	91.1%	17.6%	0.10	0.10	0.10	4.4%
		0.212	0.075	0.96	4.9%	96.0%	8.9%	0.21	0.10	0.15	3.8%
		0.075	Pan	0.79	4.0%	100.0%	4.0%	0.21	0.21	0.21	4.1%
Total -				19.50	100.0%			0.17	0.23	0.20	100.0%
Detection -								0.21	0.21		

Table 6-120.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63307
Crushed Material, Calculated 80% passing 6.4 millimeters
Tailings Screen Analysis with Assays by Size Fraction

				Dry Screen Analysis				Analysis of Gold Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Assay 1, gms Au/MT	Assay 2, gms Au/MT	Average Assay, gms Au/MT	Weight Au, %
48158	63307		12.5	0.00				---	---	---	---
		12.5	9.5	0.25	1.3%	1.3%	100.0%	0.103	0.106	0.105	0.8%
		9.5	6.3	3.87	19.9%	21.2%	98.7%	0.182	0.178	0.180	21.6%
		6.3	3.35	5.90	30.3%	51.4%	78.8%	0.192	0.183	0.188	34.3%
		3.35	1.70	3.86	19.8%	71.2%	48.6%	0.163	0.161	0.162	19.4%
		1.70	0.600	2.98	15.3%	86.5%	28.8%	0.158	0.158	0.158	14.6%
		0.600	0.212	0.76	3.9%	90.5%	13.5%	0.113	0.106	0.110	2.6%
		0.212	0.075	1.23	6.3%	96.8%	9.5%	0.127	0.127	0.127	4.8%
		0.075	Pan	0.63	3.2%	100.0%	3.2%	0.103	0.099	0.101	2.0%
Total -				19.48	100.0%			0.168	0.164	0.166	100.0%
Detection -								0.010	0.010		

				Dry Screen Analysis				Analysis of Silver Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Assay 1, gms Ag/MT	Assay 2, gms Ag/MT	Average Assay, gms Ag/MT	Weight Ag, %
48158	63307		12.5	0.00				---	---	---	---
		12.5	9.5	0.25	1.3%	1.3%	100.0%	0.21	0.21	0.21	1.5%
		9.5	6.3	3.87	19.9%	21.2%	98.7%	0.21	0.10	0.15	17.5%
		6.3	3.35	5.90	30.3%	51.4%	78.8%	0.10	0.21	0.15	26.7%
		3.35	1.70	3.86	19.8%	71.2%	48.6%	0.21	0.21	0.21	23.3%
		1.70	0.600	2.98	15.3%	86.5%	28.8%	0.21	0.21	0.21	18.0%
		0.600	0.212	0.76	3.9%	90.5%	13.5%	0.10	0.21	0.15	3.5%
		0.212	0.075	1.23	6.3%	96.8%	9.5%	0.21	0.10	0.15	5.6%
		0.075	Pan	0.63	3.2%	100.0%	3.2%	0.21	0.21	0.21	3.8%
Total -				19.48	100.0%			0.17	0.18	0.17	100.0%
Detection -								0.21	0.21		

Table 6-121.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63310
Crushed Material, Calculated 80% passing 6.0 millimeters
Tailings Screen Analysis with Assays by Size Fraction

				Dry Screen Analysis				Analysis of Gold Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Assay 1, gms Au/MT	Assay 2, gms Au/MT	Average Assay, gms Au/MT	Weight Au, %
48158	63310		12.5	0.00				---	---	---	---
		12.5	9.5	0.19	0.9%	0.9%	100.0%	0.134	0.137	0.135	0.8%
		9.5	6.3	3.20	16.3%	17.3%	99.1%	0.175	0.182	0.178	17.8%
		6.3	3.35	5.70	29.1%	46.3%	82.7%	0.182	0.185	0.183	32.5%
		3.35	1.70	3.98	20.3%	66.6%	53.7%	0.185	0.182	0.183	22.7%
		1.70	0.600	3.50	17.8%	84.5%	33.4%	0.137	0.141	0.139	15.1%
		0.600	0.212	0.89	4.5%	89.0%	15.5%	0.127	0.122	0.124	3.4%
		0.212	0.075	1.53	7.8%	96.8%	11.0%	0.120	0.117	0.118	5.6%
		0.075	Pan	0.63	3.2%	100.0%	3.2%	0.101	0.103	0.102	2.0%
Total -				19.61	100.0%			0.163	0.165	0.164	100.0%
Detection -								0.010	0.010		

				Dry Screen Analysis				Analysis of Silver Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Assay 1, gms Ag/MT	Assay 2, gms Ag/MT	Average Assay, gms Ag/MT	Weight Ag, %
48158	63310		12.5	0.00				---	---	---	---
		12.5	9.5	0.19	0.9%	0.9%	100.0%	0.21	0.21	0.21	1.1%
		9.5	6.3	3.20	16.3%	17.3%	99.1%	0.10	0.21	0.15	13.9%
		6.3	3.35	5.70	29.1%	46.3%	82.7%	0.21	0.21	0.21	33.1%
		3.35	1.70	3.98	20.3%	66.6%	53.7%	0.21	0.10	0.15	17.3%
		1.70	0.600	3.50	17.8%	84.5%	33.4%	0.21	0.21	0.21	20.3%
		0.600	0.212	0.89	4.5%	89.0%	15.5%	0.21	0.10	0.15	3.9%
		0.212	0.075	1.53	7.8%	96.8%	11.0%	0.10	0.21	0.15	6.7%
		0.075	Pan	0.63	3.2%	100.0%	3.2%	0.21	0.21	0.21	3.6%
Total -				19.61	100.0%			0.18	0.18	0.18	100.0%
Detection -								0.21	0.21		

Table 6-122.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63313
Crushed Material, Calculated 80% passing 6.4 millimeters
Tailings Screen Analysis with Assays by Size Fraction

				Dry Screen Analysis				Analysis of Gold Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Assay 1, gms Au/MT	Assay 2, gms Au/MT	Average Assay, gms Au/MT	Weight Au, %
48158	63313		12.5	0.00				---	---	---	---
		12.5	9.5	0.28	1.4%	1.4%	100.0%	0.142	0.137	0.140	1.2%
		9.5	6.3	3.76	19.3%	20.7%	98.6%	0.185	0.182	0.183	20.6%
		6.3	3.35	5.87	30.1%	50.8%	79.3%	0.202	0.195	0.199	34.8%
		3.35	1.70	3.95	20.3%	71.1%	49.2%	0.175	0.168	0.171	20.2%
		1.70	0.600	3.05	15.6%	86.7%	28.9%	0.154	0.154	0.154	14.0%
		0.600	0.212	0.73	3.7%	90.5%	13.3%	0.130	0.127	0.129	2.8%
		0.212	0.075	1.30	6.7%	97.1%	9.5%	0.127	0.130	0.129	5.0%
		0.075	Pan	0.56	2.9%	100.0%	2.9%	0.086	0.089	0.087	1.5%
Total -				19.49	100.0%			0.174	0.170	0.172	100.0%
Detection -								0.010	0.010		

				Dry Screen Analysis				Analysis of Silver Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Assay 1, gms Ag/MT	Assay 2, gms Ag/MT	Average Assay, gms Ag/MT	Weight Ag, %
48158	63313		12.5	0.00				---	---	---	---
		12.5	9.5	0.28	1.4%	1.4%	100.0%	0.21	0.21	0.21	1.4%
		9.5	6.3	3.76	19.3%	20.7%	98.6%	0.21	0.21	0.21	18.9%
		6.3	3.35	5.87	30.1%	50.8%	79.3%	0.41	0.21	0.31	44.4%
		3.35	1.70	3.95	20.3%	71.1%	49.2%	0.21	0.10	0.15	14.9%
		1.70	0.600	3.05	15.6%	86.7%	28.9%	0.10	0.21	0.15	11.5%
		0.600	0.212	0.73	3.7%	90.5%	13.3%	0.10	0.10	0.10	1.8%
		0.212	0.075	1.30	6.7%	97.1%	9.5%	0.21	0.10	0.15	4.9%
		0.075	Pan	0.56	2.9%	100.0%	2.9%	0.10	0.21	0.15	2.1%
Total -				19.49	100.0%			0.24	0.17	0.21	100.0%
Detection -								0.21	0.21		

Table 6-123.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63319
Crushed Material, Calculated 80% passing 6.0 millimeters
Tailings Screen Analysis with Assays by Size Fraction

				Dry Screen Analysis				Analysis of Gold Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Assay 1, gms Au/MT	Assay 2, gms Au/MT	Average Assay, gms Au/MT	Weight Au, %
48158	63319		12.5	0.00				---	---	---	---
		12.5	9.5	0.17	0.9%	0.9%	100.0%	0.134	0.137	0.135	0.7%
		9.5	6.3	3.25	16.4%	17.3%	99.1%	0.199	0.192	0.195	19.2%
		6.3	3.35	5.73	29.0%	46.3%	82.7%	0.195	0.195	0.195	33.8%
		3.35	1.70	4.07	20.6%	66.9%	53.7%	0.163	0.171	0.167	20.6%
		1.70	0.600	3.23	16.3%	83.2%	33.1%	0.144	0.147	0.146	14.2%
		0.600	0.212	0.89	4.5%	87.7%	16.8%	0.127	0.127	0.127	3.4%
		0.212	0.075	1.70	8.6%	96.3%	12.3%	0.120	0.123	0.122	6.3%
		0.075	Pan	0.72	3.7%	100.0%	3.7%	0.079	0.084	0.081	1.8%
Total -				19.77	100.0%			0.166	0.168	0.167	100.0%
Detection -								0.010	0.010		

				Dry Screen Analysis				Analysis of Silver Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Assay 1, gms Ag/MT	Assay 2, gms Ag/MT	Average Assay, gms Ag/MT	Weight Ag, %
48158	63319		12.5	0.00				---	---	---	---
		12.5	9.5	0.17	0.9%	0.9%	100.0%	0.21	0.21	0.21	0.9%
		9.5	6.3	3.25	16.4%	17.3%	99.1%	0.10	0.21	0.15	12.7%
		6.3	3.35	5.73	29.0%	46.3%	82.7%	0.21	0.21	0.21	29.8%
		3.35	1.70	4.07	20.6%	66.9%	53.7%	0.21	0.41	0.31	31.7%
		1.70	0.600	3.23	16.3%	83.2%	33.1%	0.21	0.10	0.15	12.6%
		0.600	0.212	0.89	4.5%	87.7%	16.8%	0.21	0.21	0.21	4.6%
		0.212	0.075	1.70	8.6%	96.3%	12.3%	0.10	0.10	0.10	4.4%
		0.075	Pan	0.72	3.7%	100.0%	3.7%	0.21	0.15	0.18	3.3%
Total -				19.77	100.0%			0.18	0.22	0.20	100.0%
Detection -								0.21	0.21		

6.7.5 Head Screens versus Tail Screens Analyses

An analysis of gold extraction versus crush size can be utilized to determine the approximate extractions that may be generated by crushing the material finer than the size actually tested in the program. The analysis, however, cannot be utilized to generate information for extractions at crush sizes larger than what was tested in the program.

The cumulative percent gold extraction reported was determined as follows:

1. The percent gold extraction for each size fraction was calculated. This value was calculated as a percent difference between the head assay and the tail assay for each size fraction considered.

2. The total gold content of the head material prior to leaching was determined as the head assay multiplied by the weight of material retained in the tail screen analysis for each size fraction. The extracted gold content was determined by multiplying the percent gold extracted for each size fraction by the total gold content of that size fraction.

3. The values determined in step (2) were summed for the size fractions equal to and less than the specific fraction considered.

4. The theoretical cumulative percent gold extracted value was then determined by dividing the sum of the extracted gold content by the sum of the total gold content for each size fraction equal to or less than the fraction considered.

In order to clarify these calculations, a sample calculation is outlined in Table 6-124.

The value contained in cell J1 was obtained by dividing the sum of I1 through I9 by the sum of G1 through G9.

The value contained in cell J5 was obtained by dividing the sum of I5 through I9 by the sum of G5 through G9.

Table 6-124.
Head Screen versus Tail Screen (Sample Calculation)

	A	B	C	D	E	F	G	H	I	J
	Size Fraction	Weight Retained	Tail Wt., %	Cum. Pass Wt., %	Head, gms Au/MT	Tail, gms Au/MT	Product of B x E	Percent Gold Extracted	Product of G x H	Theoretical Cumulative Extracted, %
1	+16.00	7.31	7.31%	100.00%	0.874	0.257	6.389	70.6%	4.510	72.5%
2	-16.00 +12.50	19.45	19.45%	92.69%	0.874	0.223	16.999	74.5%	12.662	72.6%
3	-12.50 +9.50	9.79	9.79%	73.24%	0.823	0.240	8.057	70.8%	5.708	72.2%
4	-9.50 +8.00	8.83	8.83%	63.45%	0.994	0.240	8.777	75.9%	6.658	72.3%
5	-8.00 +6.30	20.83	20.83%	54.62%	0.874	0.223	18.205	74.5%	13.560	71.8%
6	-6.00 +3.35	13.1	13.10%	33.79%	0.823	0.223	10.781	72.9%	7.860	70.5%
7	-3.35 +1.70	10.76	10.76%	20.69%	0.891	0.291	9.587	67.3%	6.456	69.5%
8	-1.70 +0.60	5.52	5.52%	9.93%	1.200	0.360	6.624	70.0%	4.637	70.6%
9	-0.60 +0.212	4.41	4.41%	4.41%	2.486	0.720	10.963	71.0%	7.788	71.0%

Extractions by size fraction are calculated from the tail screen assays and the head screen assays for each size fraction, and the theoretical extractions for crush sizes smaller than that of the test material are based on these calculated extractions by size fraction. Column leach test extractions are calculated from the extracted gold based on granulated carbon assays and the tail assays. Since these methods of calculation are different, the column extractions observed in test work may not equal the theoretical extractions calculated in this section.

General extraction trends may be observed from these theoretical values; however, the theoretical values are sensitive to variations in the gold distributions and assays. Therefore, the theoretical values are intended only for estimation purposes and are not intended to replace actual test work.

The theoretical extractions are presented in Tables 6-125 through 6-129, and are presented graphically in Figures 6-4 through 6-13.

Table 6-125.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63304
Crushed Material, Calculated 80% passing 5.7 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction

Tail Screen Analysis								Analysis of Gold Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Head Screen Assays, gms Au/MT	Tail Screen Assays, gms Au/MT	Extraction by Fraction, %	Theoretical Extraction, %
48158	63304		12.5	0.00	--	--	--	--	--	--	--
		12.5	9.5	0.18	0.9%	0.9%	100.0%	--	--	--	--
		9.5	6.3	2.75	14.1%	15.0%	99.1%	0.965	0.161	83%	85%
		6.3	3.35	5.20	26.7%	41.7%	85.0%	1.258	0.147	88%	86%
		3.35	1.70	4.19	21.5%	63.2%	58.3%	0.715	0.204	71%	84%
		1.70	0.600	3.76	19.3%	82.4%	36.8%	0.845	0.149	82%	89%
		0.600	0.212	1.68	8.6%	91.1%	17.6%	1.191	0.113	91%	93%
		0.212	0.075	0.96	4.9%	96.0%	8.9%	2.004	0.118	94%	94%
		0.075	Pan	0.79	4.0%	100.0%	4.0%	1.594	0.098	94%	94%
Total -				19.50	100.0%	--	--	--	--	--	--

Tail Screen Analysis								Analysis of Silver Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Head Screen Assays, gms Ag/MT	Tail Screen Assays, gms Ag/MT	Extraction by Fraction, %	Theoretical Extraction, %
48158	63304		12.5	0.00	--	--	--	--	--	--	--
		12.5	9.5	0.18	0.9%	0.9%	100.0%	--	--	--	--
		9.5	6.3	2.75	14.1%	15.0%	99.1%	0.41	0.21	50%	64%
		6.3	3.35	5.20	26.7%	41.7%	85.0%	0.41	0.31	25%	65%
		3.35	1.70	4.19	21.5%	63.2%	58.3%	0.62	0.15	75%	77%
		1.70	0.600	3.76	19.3%	82.4%	36.8%	0.62	0.15	75%	78%
		0.600	0.212	1.68	8.6%	91.1%	17.6%	0.62	0.10	83%	81%
		0.212	0.075	0.96	4.9%	96.0%	8.9%	0.79	0.15	80%	79%
		0.075	Pan	0.79	4.0%	100.0%	4.0%	0.89	0.21	77%	77%
Total -				19.50	100.0%	--	--	--	--	--	--

Figure 6-4.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63304
Crushed Material, Calculated 80% passing 5.7 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction - Gold

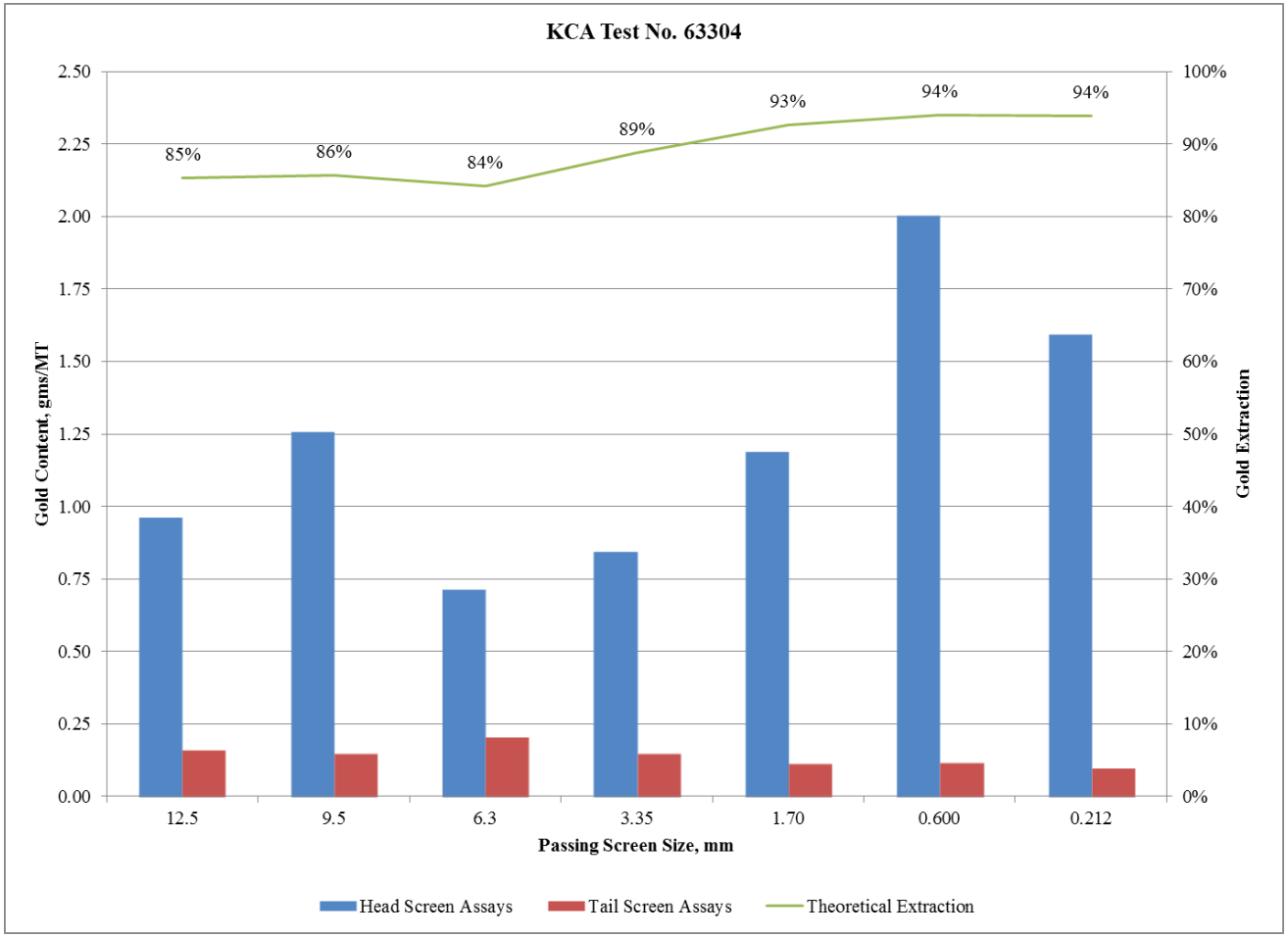


Figure 6-5.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63304
Crushed Material, Calculated 80% passing 5.7 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction - Silver

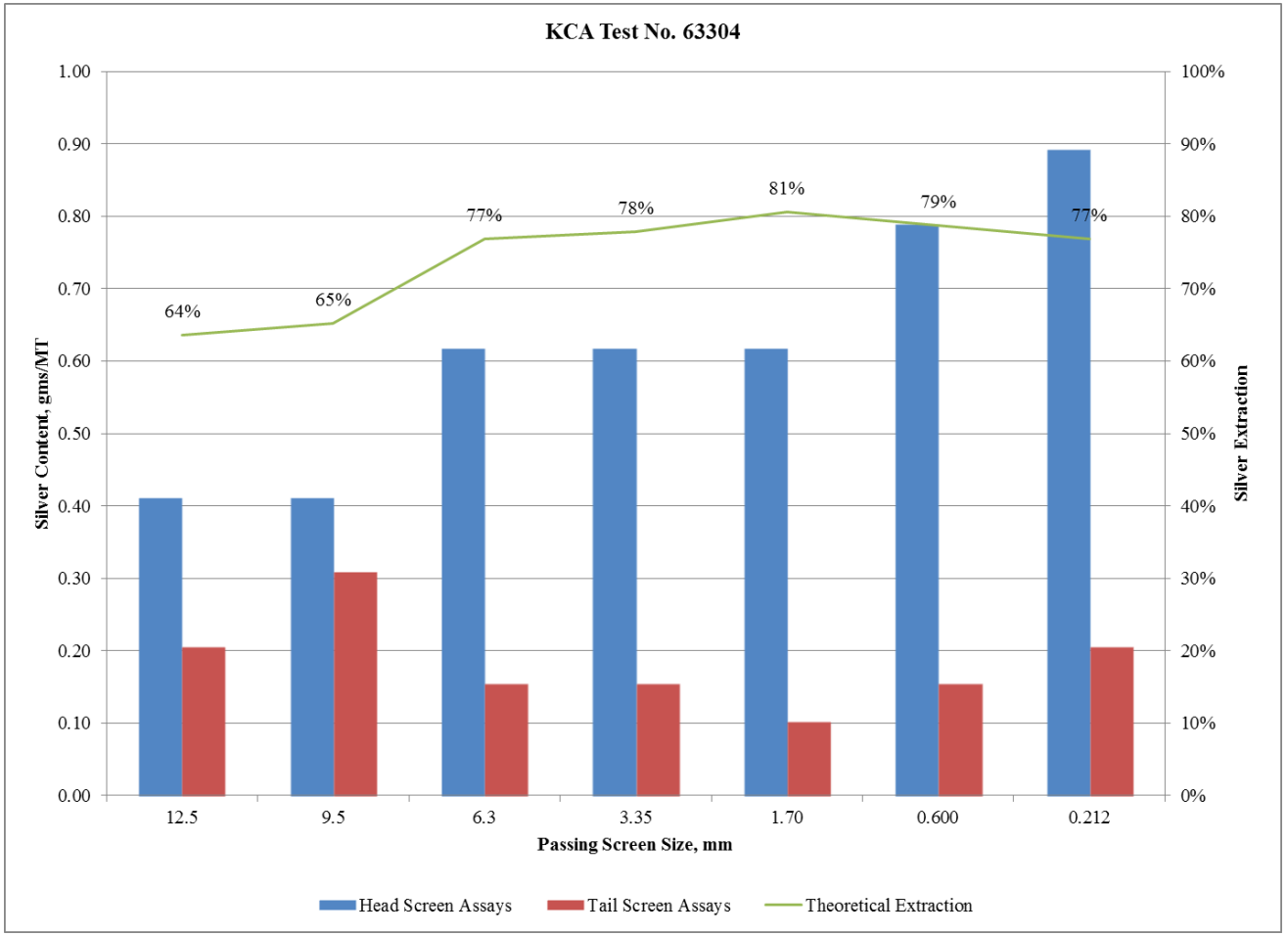


Table 6-126.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63307
Crushed Material, Calculated 80% passing 6.4 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction

Tail Screen Analysis								Analysis of Gold Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Head Screen Assays, gms Au/MT	Tail Screen Assays, gms Au/MT	Extraction by Fraction, %	Theoretical Extraction, %
48158	63307		12.5	0.00	--	--	--	--	--	--	--
		12.5	9.5	0.25	1.3%	1.3%	100.0%	--	--	--	--
		9.5	6.3	3.87	19.9%	21.2%	98.7%	0.965	0.180	81%	85%
		6.3	3.35	5.90	30.3%	51.4%	78.8%	1.258	0.188	85%	85%
		3.35	1.70	3.86	19.8%	71.2%	48.6%	0.715	0.162	77%	86%
		1.70	0.600	2.98	15.3%	86.5%	28.8%	0.845	0.158	81%	89%
		0.600	0.212	0.76	3.9%	90.5%	13.5%	1.191	0.110	91%	93%
		0.212	0.075	1.23	6.3%	96.8%	9.5%	2.004	0.127	94%	94%
		0.075	Pan	0.63	3.2%	100.0%	3.2%	1.594	0.101	94%	94%
Total -				19.48	100.0%	--	--	--	--	--	--

Tail Screen Analysis								Analysis of Silver Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Head Screen Assays, gms Ag/MT	Tail Screen Assays, gms Ag/MT	Extraction by Fraction, %	Theoretical Extraction, %
48158	63307		12.5	0.00	--	--	--	--	--	--	--
		12.5	9.5	0.25	1.3%	1.3%	100.0%	--	--	--	--
		9.5	6.3	3.87	19.9%	21.2%	98.7%	0.41	0.15	63%	67%
		6.3	3.35	5.90	30.3%	51.4%	78.8%	0.41	0.15	63%	68%
		3.35	1.70	3.86	19.8%	71.2%	48.6%	0.62	0.21	67%	70%
		1.70	0.600	2.98	15.3%	86.5%	28.8%	0.62	0.21	67%	73%
		0.600	0.212	0.76	3.9%	90.5%	13.5%	0.62	0.15	75%	78%
		0.212	0.075	1.23	6.3%	96.8%	9.5%	0.79	0.15	80%	79%
		0.075	Pan	0.63	3.2%	100.0%	3.2%	0.89	0.21	77%	77%
Total -				19.48	100.0%	--	--	--	--	--	--

Figure 6-6.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63307
Crushed Material, Calculated 80% passing 6.4 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction - Gold

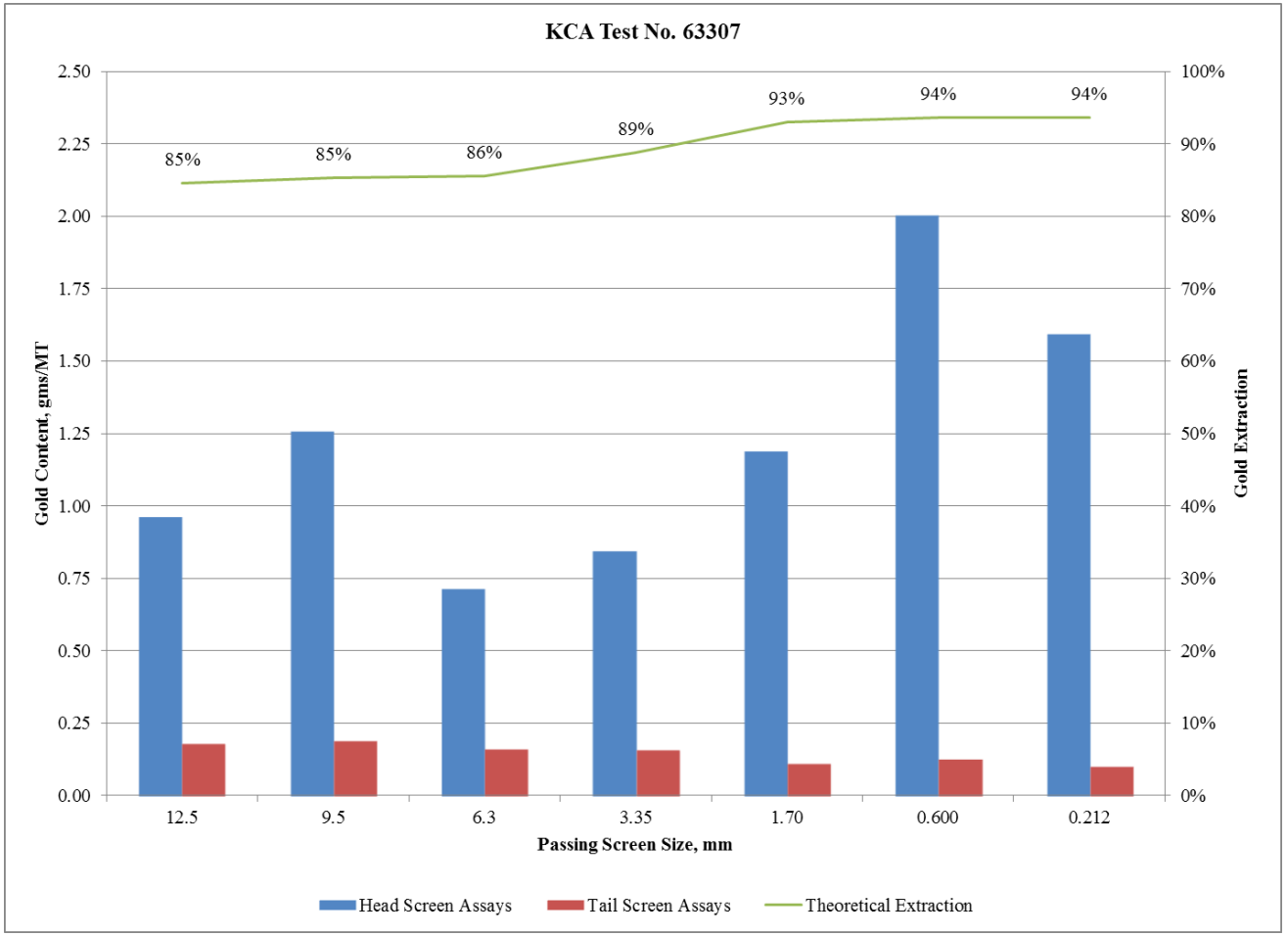


Figure 6-7.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63307
Crushed Material, Calculated 80% passing 6.4 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction - Silver

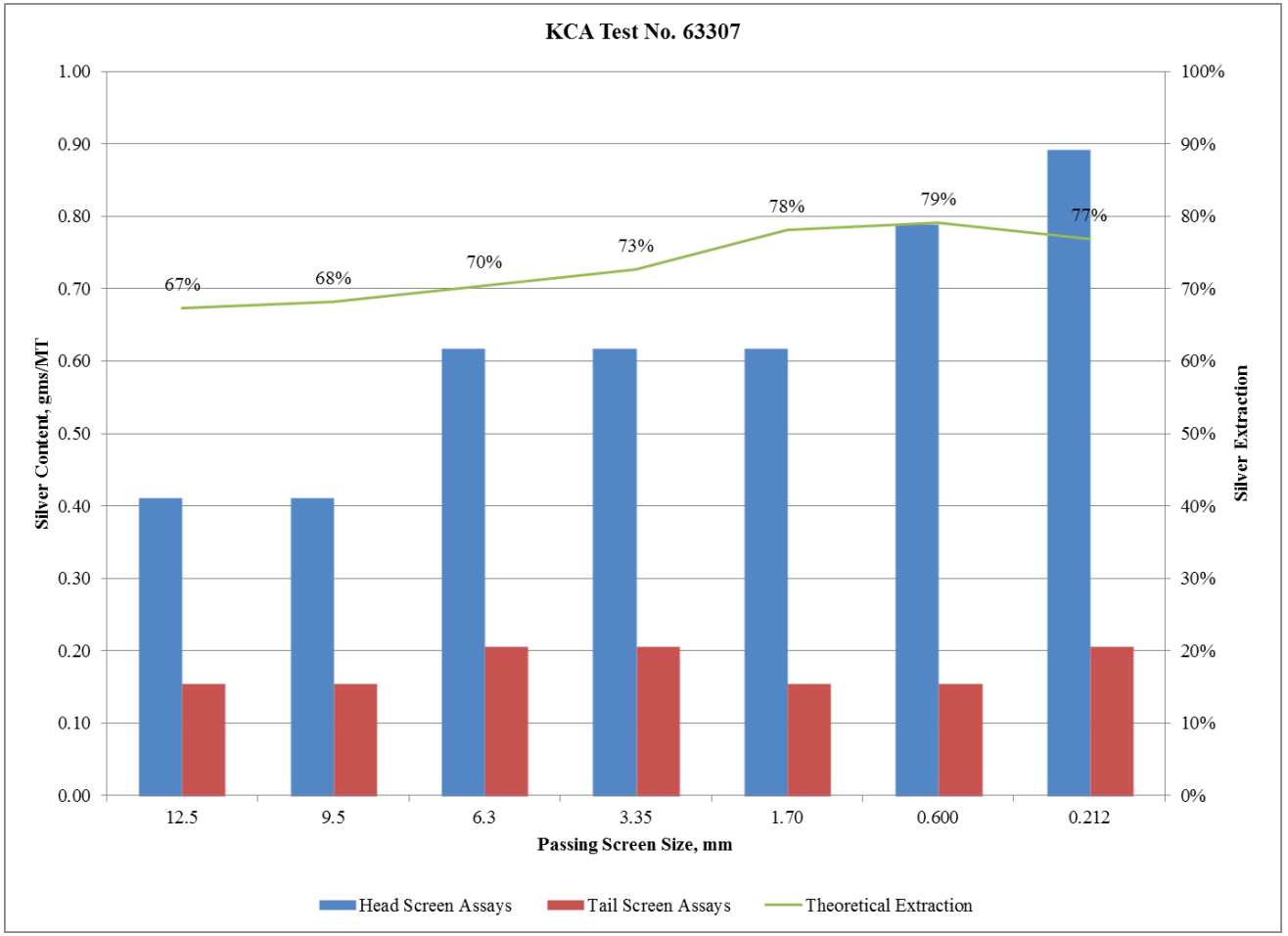


Table 6-127.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63310
Crushed Material, Calculated 80% passing 6.0 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction

Tail Screen Analysis								Analysis of Gold Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Head Screen Assays, gms Au/MT	Tail Screen Assays, gms Au/MT	Extraction by Fraction, %	Theoretical Extraction, %
48158	63310		12.5	0.00	--	--	--	--	--	--	--
		12.5	9.5	0.19	0.9%	0.9%	100.0%	--	--	--	--
		9.5	6.3	3.20	16.3%	17.3%	99.1%	0.965	0.178	82%	85%
		6.3	3.35	5.70	29.1%	46.3%	82.7%	1.258	0.183	85%	86%
		3.35	1.70	3.98	20.3%	66.6%	53.7%	0.715	0.183	74%	86%
		1.70	0.600	3.50	17.8%	84.5%	33.4%	0.845	0.139	84%	90%
		0.600	0.212	0.89	4.5%	89.0%	15.5%	1.191	0.124	90%	93%
		0.212	0.075	1.53	7.8%	96.8%	11.0%	2.004	0.118	94%	94%
		0.075	Pan	0.63	3.2%	100.0%	3.2%	1.594	0.102	94%	94%
Total -				19.61	100.0%	--	--	--	--	--	--

Tail Screen Analysis								Analysis of Silver Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Head Screen Assays, gms Ag/MT	Tail Screen Assays, gms Ag/MT	Extraction by Fraction, %	Theoretical Extraction, %
48158	63310		12.5	0.00	--	--	--	--	--	--	--
		12.5	9.5	0.19	0.9%	0.9%	100.0%	--	--	--	--
		9.5	6.3	3.20	16.3%	17.3%	99.1%	0.41	0.15	63%	67%
		6.3	3.35	5.70	29.1%	46.3%	82.7%	0.41	0.21	50%	68%
		3.35	1.70	3.98	20.3%	66.6%	53.7%	0.62	0.15	75%	74%
		1.70	0.600	3.50	17.8%	84.5%	33.4%	0.62	0.21	67%	73%
		0.600	0.212	0.89	4.5%	89.0%	15.5%	0.62	0.15	75%	78%
		0.212	0.075	1.53	7.8%	96.8%	11.0%	0.79	0.15	80%	79%
		0.075	Pan	0.63	3.2%	100.0%	3.2%	0.89	0.21	77%	77%
Total -				19.61	100.0%	--	--	--	--	--	--

Figure 6-8.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63310
Crushed Material, Calculated 80% passing 6.0 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction - Gold

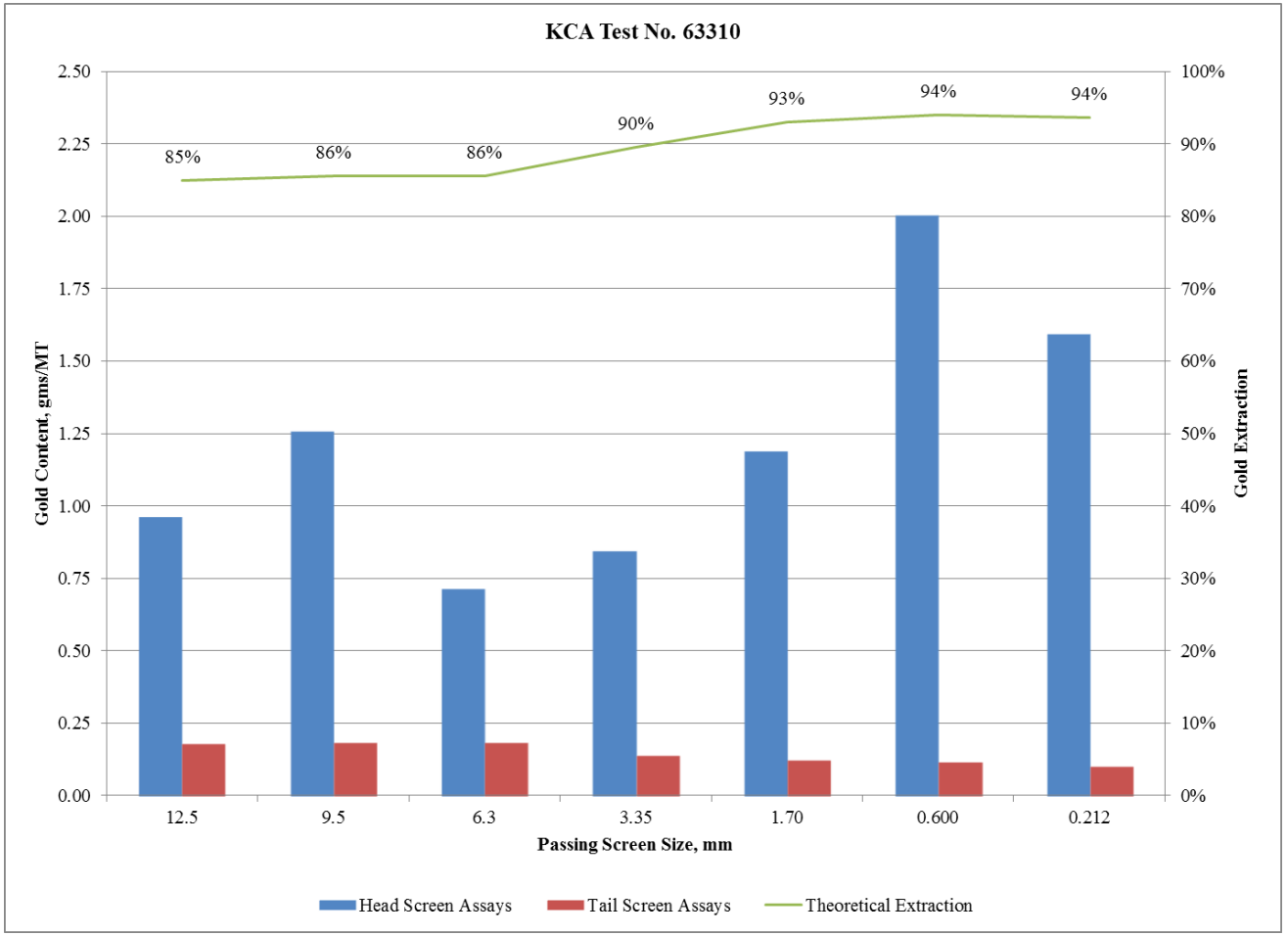


Figure 6-9.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63310
Crushed Material, Calculated 80% passing 6.0 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction - Silver

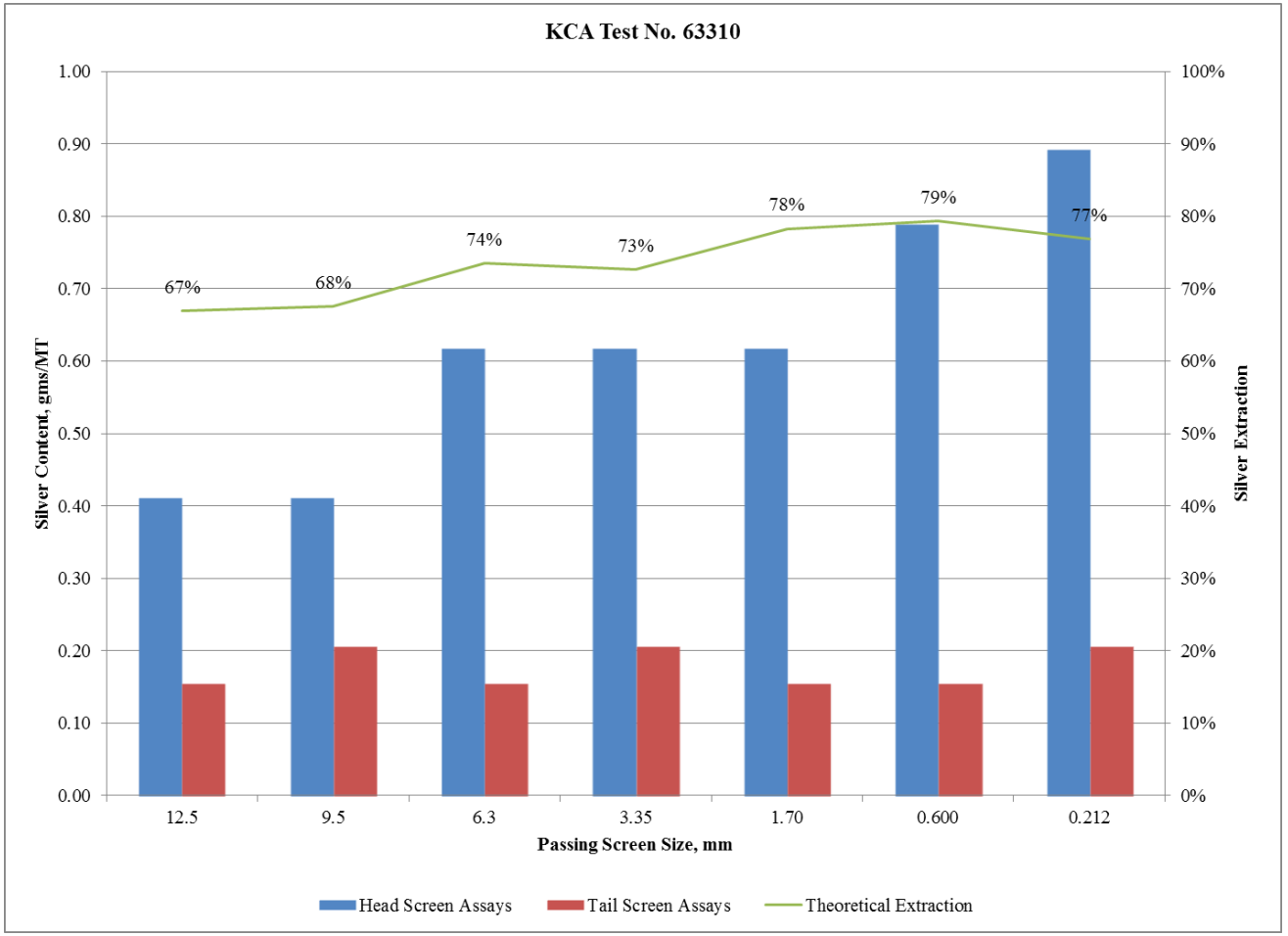


Table 6-128.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63313
Crushed Material, Calculated 80% passing 6.4 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction

Tail Screen Analysis								Analysis of Gold Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Head Screen Assays, gms Au/MT	Tail Screen Assays, gms Au/MT	Extraction by Fraction, %	Theoretical Extraction, %
48158	63313		12.5	0.00	--	--	--	--	--	--	--
		12.5	9.5	0.28	1.4%	1.4%	100.0%	--	--	--	--
		9.5	6.3	3.76	19.3%	20.7%	98.6%	0.965	0.183	81%	84%
		6.3	3.35	5.87	30.1%	50.8%	79.3%	1.258	0.199	84%	85%
		3.35	1.70	3.95	20.3%	71.1%	49.2%	0.715	0.171	76%	85%
		1.70	0.600	3.05	15.6%	86.7%	28.9%	0.845	0.154	82%	89%
		0.600	0.212	0.73	3.7%	90.5%	13.3%	1.191	0.129	89%	93%
		0.212	0.075	1.30	6.7%	97.1%	9.5%	2.004	0.129	94%	94%
		0.075	Pan	0.56	2.9%	100.0%	2.9%	1.594	0.087	95%	95%
Total -				19.49	100.0%	--	--	--	--	--	--

Tail Screen Analysis								Analysis of Silver Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Head Screen Assays, gms Ag/MT	Tail Screen Assays, gms Ag/MT	Extraction by Fraction, %	Theoretical Extraction, %
48158	63313		12.5	0.00	--	--	--	--	--	--	--
		12.5	9.5	0.28	1.4%	1.4%	100.0%	--	--	--	--
		9.5	6.3	3.76	19.3%	20.7%	98.6%	0.41	0.21	50%	61%
		6.3	3.35	5.87	30.1%	50.8%	79.3%	0.41	0.31	25%	63%
		3.35	1.70	3.95	20.3%	71.1%	49.2%	0.62	0.15	75%	77%
		1.70	0.600	3.05	15.6%	86.7%	28.9%	0.62	0.15	75%	78%
		0.600	0.212	0.73	3.7%	90.5%	13.3%	0.62	0.10	83%	82%
		0.212	0.075	1.30	6.7%	97.1%	9.5%	0.79	0.15	80%	81%
		0.075	Pan	0.56	2.9%	100.0%	2.9%	0.89	0.15	83%	83%
Total -				19.49	100.0%	--	--	--	--	--	--

Figure 6-10.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63313
Crushed Material, Calculated 80% passing 6.4 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction - Gold

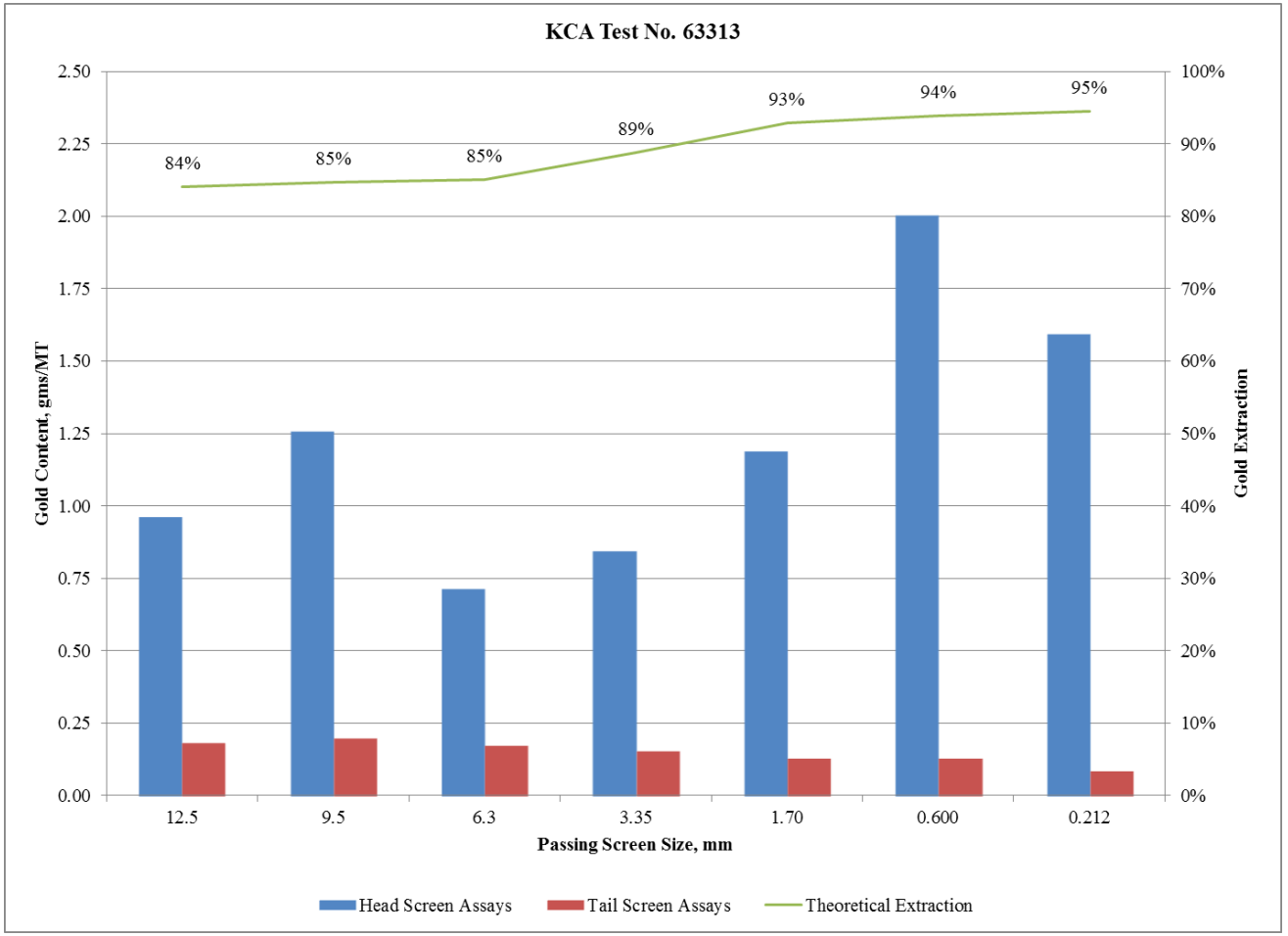


Figure 6-11.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63313
Crushed Material, Calculated 80% passing 6.4 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction - Silver

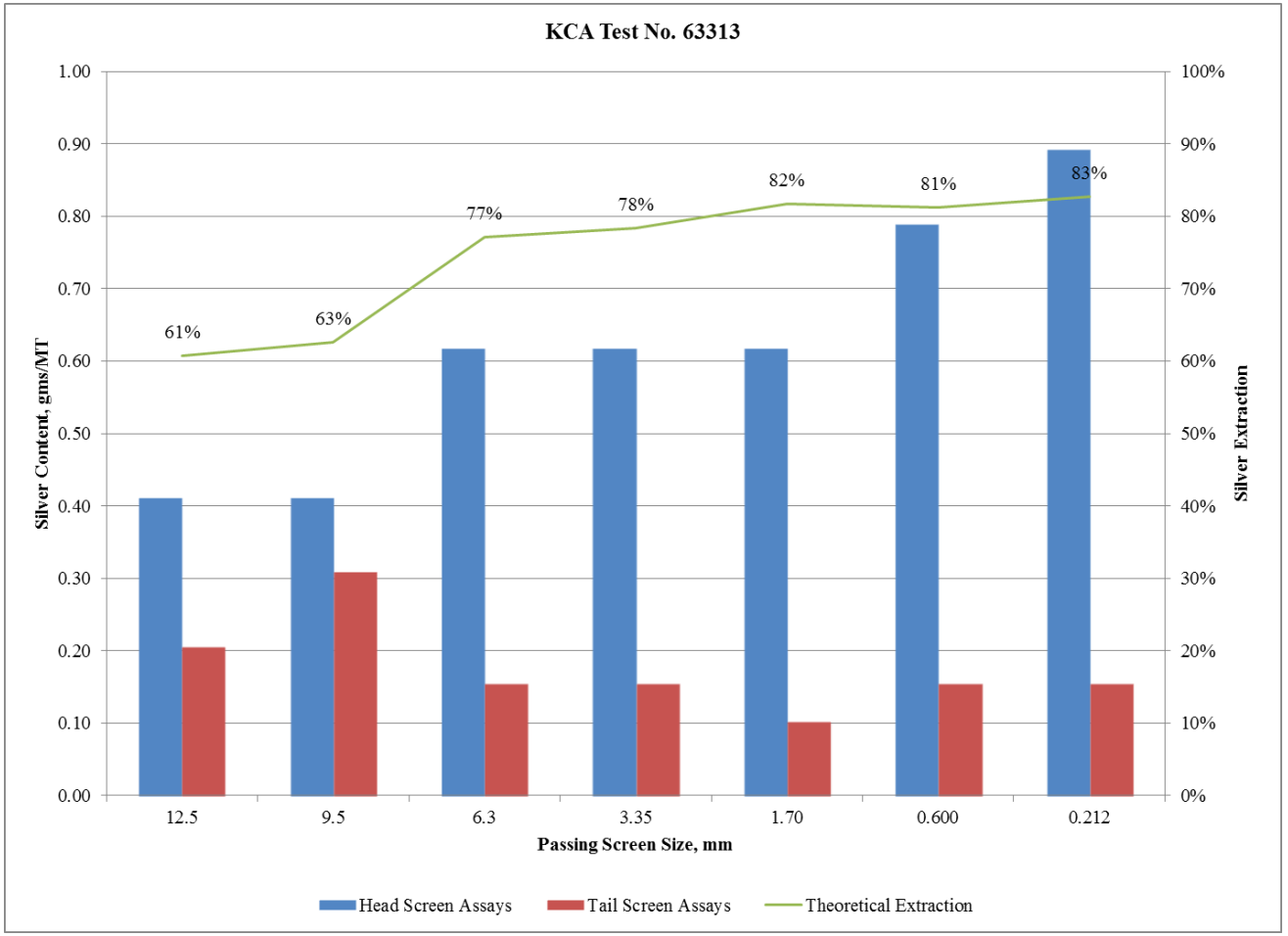


Table 6-129.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63319
Crushed Material, Calculated 80% passing 6.0 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction

Tail Screen Analysis								Analysis of Gold Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Head Screen Assays, gms Au/MT	Tail Screen Assays, gms Au/MT	Extraction by Fraction, %	Theoretical Extraction, %
48158	63319		12.5	0.00	--	--	--	--	--	--	--
		12.5	9.5	0.17	0.9%	0.9%	100.0%	--	--	--	--
		9.5	6.3	3.25	16.4%	17.3%	99.1%	0.965	0.195	80%	85%
		6.3	3.35	5.73	29.0%	46.3%	82.7%	1.258	0.195	84%	86%
		3.35	1.70	4.07	20.6%	66.9%	53.7%	0.715	0.167	77%	86%
		1.70	0.600	3.23	16.3%	83.2%	33.1%	0.845	0.146	83%	90%
		0.600	0.212	0.89	4.5%	87.7%	16.8%	1.191	0.127	89%	93%
		0.212	0.075	1.70	8.6%	96.3%	12.3%	2.004	0.122	94%	94%
		0.075	Pan	0.72	3.7%	100.0%	3.7%	1.594	0.081	95%	95%
Total -				19.77	100.0%	--	--	--	--	--	--

Tail Screen Analysis								Analysis of Silver Content			
KCA Sample No.	KCA Test No.	Passing, mm	Retained, mm	Sample Weight, kg	Weight Distribution, %	Cumulative Weight Retained, %	Cumulative Weight Passing, %	Head Screen Assays, gms Ag/MT	Tail Screen Assays, gms Ag/MT	Extraction by Fraction, %	Theoretical Extraction, %
48158	63319		12.5	0.00	--	--	--	--	--	--	--
		12.5	9.5	0.17	0.9%	0.9%	100.0%	--	--	--	--
		9.5	6.3	3.25	16.4%	17.3%	99.1%	0.41	0.15	63%	63%
		6.3	3.35	5.73	29.0%	46.3%	82.7%	0.41	0.21	50%	64%
		3.35	1.70	4.07	20.6%	66.9%	53.7%	0.62	0.31	50%	68%
		1.70	0.600	3.23	16.3%	83.2%	33.1%	0.62	0.15	75%	78%
		0.600	0.212	0.89	4.5%	87.7%	16.8%	0.62	0.21	67%	81%
		0.212	0.075	1.70	8.6%	96.3%	12.3%	0.79	0.10	87%	85%
		0.075	Pan	0.72	3.7%	100.0%	3.7%	0.89	0.18	80%	80%
Total -				19.77	100.0%	--	--	--	--	--	--

Figure 6-12.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63319
Crushed Material, Calculated 80% passing 6.0 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction - Gold

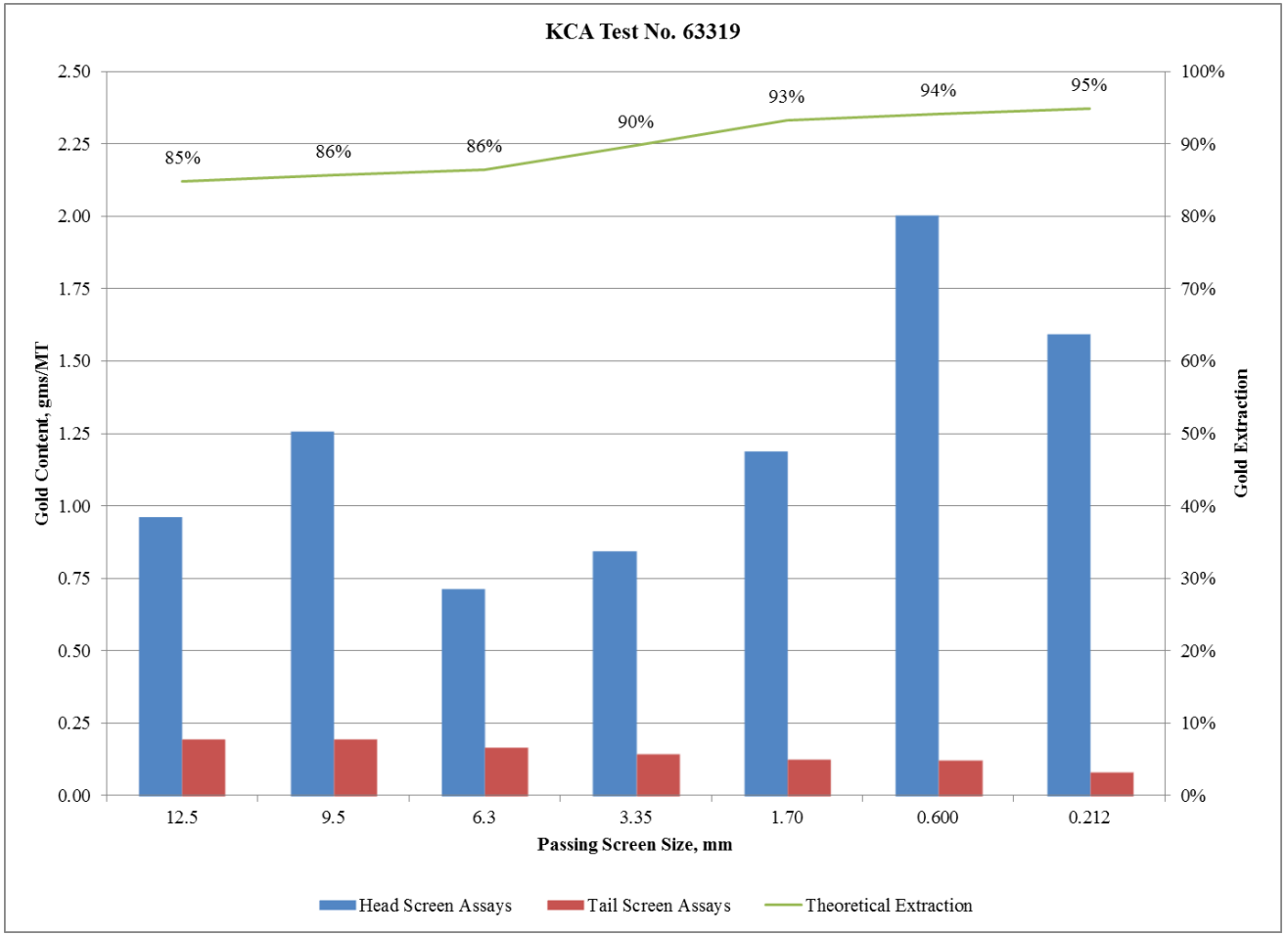
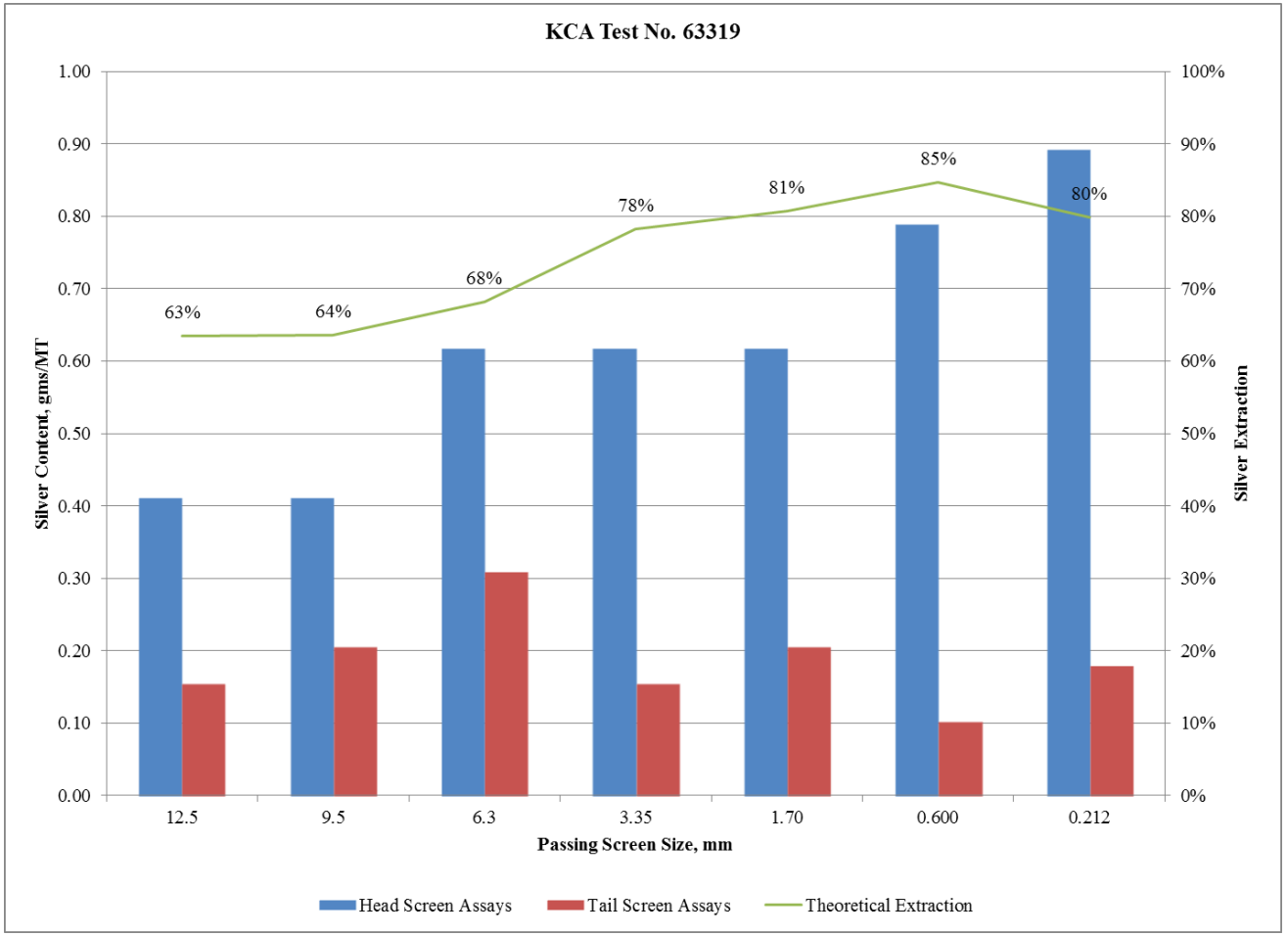


Figure 6-13.
Eagle Gold Project
Environmental Composite
KCA Sample No. 48158
KCA Test No. 63319
Crushed Material, Calculated 80% passing 6.0 millimeters
Head Screen versus Tail Screen Analyses by Size Fraction - Silver



7.0 Assaying Procedures

7.1 Heads and Tails

Head and tail assays for gold were run as one assay ton (1AT) fire assays by standard fire assay methods with flame atomic absorption spectrophotometric (FAAS) finish. Head and tail assays for silver were run through a four (4) acid digestion of a 0.2 gram sample with FAAS finish.

7.2 Carbon Assays

The loaded granular activated carbon was dried and weighed. Carbon was split out for assay, roasted to convert it to ash and then conventionally fire assayed (ASTM method: Standard Test Method for Determination of Gold in Activated Carbon by Fire Assay Gravimetry, designation: E 1568-03, modified for silver analysis).

7.3 Solution Assays

Solution assays were made by FAAS methods using certified gold and silver standards. For column leach test work, the solution assays were used merely to check on the progress of the column tests, since actual extractions were based on fire assays of the activated carbon.

7.4 Cyanide Assays

Sodium cyanide concentrations in leach solutions were determined using a colorimetric titration using a silver nitrate titrant and 5-[p-(Dimethylamino)- benzylidene]-rhodanine as the indicator. Free cyanide was determined by titrating 25 mL of the leach solution to the colorimetric end point. A few drops of 1N sodium hydroxide solution were then added to break up any base metal cyanide complexes and the titration continued until the end point was reached again to determine the "total" cyanide in solution.

7.5 Multi-Element and Whole Rock Assays

Material for a multi-element analysis was digested using a four (4) acid digestion. This digestion provided a total digestion. The resulting solution was then assayed semi-quantitatively by means of a Perkin-Elmer 2000 DV ICAP-OES. Whole rock analysis was conducted using a lithium metaborate fusion followed by ICAP-OES analysis. Certified standards were utilized for both types of analyses.

7.6 Carbon and Sulfur Assays

Carbon and sulfur analyses are conducted utilizing a LECO® CS 230 carbon/sulfur with an induction furnace (approximately 1,350^{o}C) and infrared (IR) detectors. The LECO® method consists of burning the carbon and sulfur to SO_2 and CO_2, respectively, and analyzing the off-gas in a sequential IR detector system.

The method employed by Kappes, Cassiday & Associates (KCA) to determine organic carbon is to roast a sample of the material at 510^{o}C followed by an analysis of the roasted residue in the LECO® to determine carbon present as inorganic carbon (organic carbon having been burned off). The difference between the total carbon and the carbon present as inorganic carbon is then calculated as the organic carbon.

The method employed by Kappes, Cassiday & Associates (KCA) to determine sulfate sulfur is to roast a sample of the material at 650^{o}C followed by an analysis of the roasted residue in the LECO® to determine sulfur present as sulfate sulfur (sulfides have been burned off). The difference between the total sulfur and the sulfur present as sulfate sulfur is then calculated as the sulfide sulfur.

7.7 Available Lime Index

The available lime index for the reagent grade hydrated lime ($Ca(OH)_2$) or lime (CaO) utilized by Kappes, Cassiday & Associates (KCA) for this test program was determined using a modified procedure developed from ASTM C25-99, Standard Test Methods for Chemical Analysis of Limestone, Quicklime and Hydrated Lime. This test is otherwise known as the "rapid sugar test method".

For the Available Lime Index test method, a sample of the reagent grade lime material is slaked and dispersed with water. The lime is solubilized by reaction with sugar to form calcium sucrate which is then determined by titration against a standard acid (hydrochloric acid) using phenolphthalein as the indicator.

Analysis of the reagent grade hydrated lime ($Ca(OH)_2$) or lime (CaO) utilized by KCA is conducted periodically and the average results are reported below:

Reagent Grade Product	Available Lime Index, % CaO
Lime, CaO	95.4%
Hydrated Lime, $Ca(OH)_2$	73.1%

Appendix A

Column Leach Test Logs

Key to
Column Leach Test Logs

Daily log sheets for the leach tests are included in this appendix. The extractions are based on solution assays determined by atomic absorption spectrophotometry. The extractions in the body of the report are based on carbon fire assays completed on the granular activated carbon used during the test program.

The data given in the tables alternate daily between pregnant and barren solutions. The gold and silver values not recovered by the carbon are recorded as negative extractions. Each log sheet contains the following daily information:

Column	Description of Data
1	Activity Date
2	pH levels, units
3	Free NaCN Concentration, gms/L
4	Total NaCN Concentration, gms/L
5	Lime Addition, grams
6	Cumulative Lime Added, kg/MT
7	NaCN Addition, grams
8	Cumulative NaCN Consumed, kg/MT
9	Days Run - Days of Leach
10	Water Added to the System, grams or mLs
11	Carbon Bottle Identification (C - placement, XC - removal)
12	Gold Solution Assay (FAAS), mg/L
13	Silver Solution Assay (FAAS), mg/L
14	Copper Solution Assay (FAAS), mg/L
15	Cycling Solution Volume, mLs
16	Flow Rate Pregnant Leach Solution, L/Hour/Square Meter of Column Surface
17	Cumulative Tonnes of Pregnant Leach Solution per Tonne of Ore Under Leach
18	Daily Gold Extraction Based upon Solution Assays, gms Au/MT
19	Cumulative Gold Extraction Based Upon Solution Assays, gms Au/MT
20	Daily Percent Gold Extracted
21	Cumulative Percent Gold Extracted
22	Percent of Total Gold Extracted
23	Daily Silver Extraction Based upon Solution Assays, gms Ag/MT
24	Cumulative Silver Extraction Based Upon Solution Assays, gms Ag/MT
25	Daily Percent Silver Extracted
26	Cumulative Percent Silver Extracted

Eagle Gold Project
Summary of Column Leach Test Logs with Extractions Based on Solution Assays

KCA Sample No.	KCA Test No.	Description	Column Temp. ˚C	Target p80 Size, mm	Calculated Head, gms Au/MT	Extracted, gms Au/MT	Weighted[1] Avg. Tails, gms Au/MT	Extracted, % Au	Calculated[1] Tail p80 Size, mm	Days of Leach	Consumption NaCN, kg/MT	Addition Cement, kg/MT
48158	63301	Environmental Composite	22	6.3	0.955	0.790	0.165	83%	6.1	143	1.24	3.03
48158	63304	Environmental Composite	22	6.3	0.957	0.802	0.156	84%	5.7	143	1.22	3.03
48158	63307	Environmental Composite	22	6.3	0.916	0.751	0.166	82%	6.4	143	1.27	3.03
48158	63310	Environmental Composite	22	6.3	1.069	0.905	0.164	85%	6.0	143	1.06	3.03
48158	63313	Environmental Composite	22	6.3	0.985	0.813	0.172	83%	6.4	143	1.40	3.03
48158	63316	Environmental Composite	22	6.3	0.896	0.731	0.165	82%	6.1	143	1.28	3.03
48158	63319	Environmental Composite	3	6.3	0.984	0.816	0.167	83%	6.0	143	1.27	3.02
48158	63322	Environmental Composite	3	6.3	1.006	0.841	0.165	84%	6.1	143	1.48	3.03

Note (1): For KCA Test Nos. 63301, 16 and 22, the Weighted Average Tails and Calculated Tail p80 values are the average of five (5) tests.

KCA Sample No.	KCA Test No.	Description	Column Temp. ˚C	Target p80 Size, mm	Calculated Head, gms Ag/MT	Extracted, gms Ag/MT	Weighted[1] Avg. Tails, gms Ag/MT	Extracted, % Ag	Calculated[1] Tail p80 Size, mm	Days of Leach	Consumption NaCN, kg/MT	Addition Cement, kg/MT
48158	63301	Environmental Composite	22	6.3	0.48	0.29	0.19	60%	6.1	143	1.24	3.03
48158	63304	Environmental Composite	22	6.3	0.54	0.34	0.20	63%	5.7	143	1.22	3.03
48158	63307	Environmental Composite	22	6.3	0.49	0.31	0.17	64%	6.4	143	1.27	3.03
48158	63310	Environmental Composite	22	6.3	0.61	0.43	0.18	70%	6.0	143	1.06	3.03
48158	63313	Environmental Composite	22	6.3	0.53	0.32	0.21	60%	6.4	143	1.40	3.03
48158	63316	Environmental Composite	22	6.3	0.49	0.30	0.19	60%	6.1	143	1.28	3.03
48158	63319	Environmental Composite	3	6.3	0.52	0.32	0.20	62%	6.0	143	1.27	3.02
48158	63322	Environmental Composite	3	6.3	0.52	0.33	0.19	63%	6.1	143	1.48	3.03

Note (1): For KCA Test Nos. 63301, 16 and 22, the Weighted Average Tails and Calculated Tail p80 values are the average of five (5) tests.

Project:	Eagle Gold																									
Sample Description:	Environmental Composite																									
Test No.:	63301																									
Sample I.D.:	48158																									
Initial Ht., meters:	1.53																									
Crush Size, mm:	9.5																									
Column I.D., meters:	0.152																									

Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62
Extracted, gms Au/MT:	0.790	gms Ag/MT:	0.29
Tail Assay, gms Au/MT:	0.165	gms Ag/MT:	0.19
Calculated Head, gms Au/MT:	0.955	gms Ag/MT:	0.48
Est. Weight of Sample, kg:	39.28		
Column Surface Area, square meters:	0.018		
Cement Addition, grams:	118.86	kg/MT:	3.03
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
30-Jan	---	---	---	0.00	0.00	6.86	0.00		6,863	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
30-Jan	---	---	---	---	---	---		0	---	---	---	---	---	---	0.00	0.00	0.000	0.000	0.0%	0%	0%	0.00	0.00	0.0%	0%
31-Jan	---	---	---	0.00	0.00	5.30	0.17		5,300	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
31-Jan	11.8	0.94	0.94	---	---	---		1	---	C-1	1.91	1.14	15.00	4,800	10.96	0.12	0.233	0.233	24.4%	24%	30%	0.14	0.14	28.9%	29%
1-Feb	11.2	0.73	0.73	0.00	0.00	0.00	0.19		---	---	<0.01	<0.01	---	4,800			0.000	0.233	0.0%			0.00	0.14	0.0%	
1-Feb	11.9	0.54	0.54	---	---	---		2	---	---	0.66	0.31	9.40	5,240	11.97	0.26	0.088	0.321	9.2%	34%	41%	0.04	0.18	8.6%	37%
2-Feb	11.7	0.40	0.40	0.00	0.00	0.00	0.12		---	---	<0.01	<0.01	---	5,240			0.000	0.321	0.0%			0.00	0.18	0.0%	
2-Feb	11.6	0.97	0.97	---	---	---		3	---	---	0.50	0.18	7.18	4,500	10.28	0.37	0.057	0.379	6.0%	40%	48%	0.02	0.20	4.3%	42%
3-Feb	11.6	0.96	0.96	0.00	0.00	0.80	0.10		800	---	<0.01	0.01	---	4,500			0.000	0.379	0.0%			0.00	0.20	-0.2%	
3-Feb	11.9	0.84	0.84	---	---	---		4	---	---	0.26	0.09	---	4,920	11.24	0.50	0.033	0.411	3.4%	43%	52%	0.01	0.21	2.3%	44%
4-Feb	11.6	0.72	0.72	0.00	0.00	0.00	0.06		---	---	<0.01	0.01	---	4,920			0.000	0.411	0.0%			0.00	0.21	-0.3%	
4-Feb	11.8	0.93	0.93	---	---	---		5	---	---	0.27	0.08	---	4,960	11.33	0.62	0.034	0.445	3.6%	47%	56%	0.01	0.22	2.1%	46%
5-Feb	11.6	0.61	0.61	0.00	0.00	0.00	0.06		---	---	0.01	0.02	---	4,960			-0.001	0.444	-0.1%			0.00	0.22	-0.5%	
5-Feb	11.7	0.79	0.79	---	---	---		6	---	---	0.11	0.04	---	4,940	11.28	0.75	0.014	0.458	1.4%	48%	58%	0.01	0.22	1.0%	46%
6-Feb	11.6	0.72	0.72	0.00	0.00	0.00	0.05		---	---	<0.01	<0.01	---	4,940			0.000	0.458	0.0%			0.00	0.22	0.0%	
6-Feb	11.7	0.70	0.70	---	---	---		7	---	---	0.14	0.04	---	4,600	10.51	0.86	0.016	0.474	1.7%	50%	60%	0.00	0.23	1.0%	47%
7-Feb	11.3	0.61	0.61	0.00	0.00	0.00	0.04		---	XC-1	<0.01	<0.01	---	4,600			0.000	0.474	0.0%			0.00	0.23	0.0%	
7-Feb	11.6	0.66	0.66	---	---	---		8	---	C-2	0.11	0.02	---	4,820	11.01	0.99	0.013	0.488	1.4%	51%	62%	0.00	0.23	0.5%	48%
8-Feb	10.9	0.51	0.51	0.00	0.00	0.00	0.05		---	---	<0.01	0.01	---	4,820			0.000	0.488	0.0%			0.00	0.23	-0.3%	
8-Feb	11.6	0.67	0.67	---	---	---		9	---	---	0.09	0.03	12.50	4,420	10.10	1.10	0.010	0.498	1.1%	52%	63%	0.00	0.23	0.7%	48%
9-Feb	11.0	0.57	0.57	0.00	0.00	0.90	0.04		900	---	<0.01	0.01	---	4,420			0.000	0.498	0.0%			0.00	0.23	-0.2%	
9-Feb	11.4	0.59	0.59	---	---	---		10	---	---	0.08	0.03	---	4,460	10.19	1.21	0.009	0.507	1.0%	53%	64%	0.00	0.23	0.7%	49%
10-Feb	11.1	0.52	0.52	0.00	0.00	0.00	0.06		---	---	<0.01	<0.01	---	4,460			0.000	0.507	0.0%			0.00	0.23	0.0%	
10-Feb	11.5	0.57	0.57	---	---	---		11	---	---	0.07	0.01	---	5,260	12.01	1.35	0.009	0.516	1.0%	54%	65%	0.00	0.24	0.3%	49%
13-Feb	10.7	0.40	0.40	0.00	0.00	0.00	0.05		---	---	<0.01	<0.01	---	5,260			0.000	0.516	0.0%			0.00	0.24	0.0%	
13-Feb	11.4	0.60	0.60	---	---	---		14	---	---	0.07	0.01	---	4,460	10.19	1.46	0.008	0.524	0.8%	55%	66%	0.00	0.24	0.2%	49%
14-Feb	10.7	0.55	0.55	0.00	0.00	0.80	0.04		800	---	<0.01	<0.01	---	4,460			0.000	0.524	0.0%			0.00	0.24	0.0%	
14-Feb	11.4	0.48	0.48	---	---	---		15	---	---	0.23	0.04	---	4,310	9.84	1.57	0.025	0.550	2.6%	58%	70%	0.00	0.24	0.9%	50%
15-Feb	11.2	0.45	0.45	0.00	0.00	1.00	0.06		1,000	---	<0.01	<0.01	---	4,310			0.000	0.550	0.0%			0.00	0.24	0.0%	
15-Feb	11.6	0.56	0.56	---	---	---		16	---	---	0.05	0.01	10.40	5,430	12.40	1.71	0.007	0.557	0.7%	58%	70%	0.00	0.24	0.3%	50%
16-Feb	11.0	0.42	0.42	0.00	0.00	0.00	0.07		---	---	<0.01	<0.01	---	5,430			0.000	0.557	0.0%			0.00	0.24	0.0%	
16-Feb	11.3	0.47	0.47	---	---	---		17	---	---	0.04	0.01	---	5,380	12.29	1.85	0.005	0.562	0.6%	59%	71%	0.00	0.24	0.3%	51%
17-Feb	11.2	0.40	0.40	0.00	0.00	0.00	0.05		---	---	<0.01	<0.01	---	5,380			0.000	0.562	0.0%			0.00	0.24	0.0%	
17-Feb	11.4	0.55	0.55	---	---	---		18	---	---	0.04	0.01	---	5,420	12.38	1.98	0.006	0.568	0.6%	59%	72%	0.00	0.25	0.3%	51%
21-Feb	10.3	0.35	0.35	0.00	0.00	1.40	0.03		---	XC-2	0.01	<0.01	---	5,420			-0.001	0.566	-0.1%			0.00	0.25	0.0%	
21-Feb	10.4	0.38	0.38	---	---	---		22	---	C-3	0.06	<0.01	---	5,420	12.38	2.12	0.008	0.574	0.9%	60%	73%	0.00	0.25	0.0%	51%
22-Feb	10.3	0.28	0.28	0.00	0.00	1.70	0.07		---	---	<0.01	<0.01	---	5,240			0.000	0.574	0.0%			0.00	0.25	0.0%	
22-Feb	11.2	0.37	0.37	---	---	---		23	---	---	0.10	0.02	11.10	4,750	10.85	2.24	0.012	0.587	1.3%	61%	74%	0.00	0.25	0.5%	51%
23-Feb	10.6	0.27	0.27	0.00	0.00	1.60	0.12		---	---	<0.01	<0.01	---	4,750			0.000	0.587	0.0%			0.00	0.25	0.0%	
23-Feb	11.2	0.58	0.58	---	---	---		24	---	---	0.05	<0.01	---	5,190	11.85	2.37	0.007	0.593	0.7%	62%	75%	0.00	0.25	0.0%	51%
24-Feb	10.6	0.57	0.57	0.00	0.00	0.00	0.12		---	---	<0.01	<0.01	---	5,190			0.000	0.593	0.0%			0.00	0.25	0.0%	
24-Feb	10.9	0.55	0.55	---	---	---		25	---	---	0.04	<0.01	---	4,160	9.50	2.48	0.004	0.597	0.4%	63%	76%	0.00	0.25	0.0%	51%
27-Feb	10.6	0.40	0.40	0.00	0.00	1.10	0.09		1,100	---	<0.01	<0.01	---	4,160			0.000	0.597	0.0%			0.00	0.25	0.0%	
27-Feb	10.8	0.56	0.56	---	---	---		28	---	---	0.03	<0.01	---	5,080	11.60	2.61	0.004	0.601	0.4%	63%	76%	0.00	0.25	0.0%	51%
28-Feb	10.3	0.40	0.40	0.00	0.00	0.00	0.12		---	---	<0.01	<0.01	---	5,080			0.000	0.601	0.0%			0.00	0.25	0.0%	
28-Feb	10.9	0.34	0.34	---	---	---		29	---	---	0.07	<0.01	---	4,200	9.59	2.72	0.007	0.609	0.8%	64%	77%	0.00	0.25	0.0%	51%
29-Feb	10.6	0.32	0.32	0.00	0.00	2.30	0.13		1,100	---	<0.01	<0.01	---	4,200			0.000	0.609	0.0%			0.00	0.25	0.0%	
29-Feb	10.8	0.45	0.45	---	---	---		30	---	---	0.30	<0.01	10.20	5,750	13.13	2.86	0.044	0.653	4.6%	68%	83%	0.00	0.25	0.0%	51%
1-Mar	10.8	0.40	0.40	0.00	0.00	0.00	0.17		---	---	0.01	<0.01	---	5,750			-0.001	0.651	-0.2%			0.00	0.25	0.0%	
1-Mar	11.1	0.46	0.46	---	---	---		31	---	---	0.04	0.01	---	4,830	11.03	2.99	0.005	0.656	0.5%	69%	83%	0.00	0.25	0.3%	52%
2-Mar	10.8	0.40	0.40	0.00	0.00	0.00	0.15		---	---	<0.01	<0.01	---	4,830			0.000	0.656	0.0%			0.00	0.25	0.0%	
2-Mar	11.1	0.57	0.57	---	---	---		32	---	---	0.02	0.01	---	5,490	12.54	3.13	0.003	0.659	0.3%	69%	83%	0.00	0.25	0.3%	52%
5-Mar	10.4	0.41	0.41	0.00	0.00	0.00	0.13		---	---	0.10	<0.01	---	5,490			-0.014	0.645	-1.5%			0.00	0.25	0.0%	
5-Mar	10.5	0.34	0.34	---	---	---		35	---	---	0.05	0.01	---	4,970	11.35	3.25	0.006	0.651	0.7%	68%	82%	0.00	0.25	0.3%	52%
6-Mar	10.4	0.28	0.28	0.00	0.00	0.00	0.13		---	---	<0.01	<0.01	---	4,970			0.000	0.651	0.0%			0.00	0.25	0.0%	
6-Mar	10.6	0.33	0.33	---	---	---		36	---	---	0.04	0.01	---	4,960	11.33	3.38	0.005	0.656	0.5%	69%	83%	0.00	0.25	0.3%	52%
7-Mar	10.8	0.28	0.28	0.00	0.00	1.60	0.15		---	---	0.02	<0.01	---	4,960			-0.003	0.654	-0.3%			0.00	0.25	0.0%	
7-Mar	11.1	0.34	0.34	---	---	---		37	---	---	0.03	0.01	10.30	4,480	10.23	3.49	0.003	0.657	0.4%	69%	83%	0.00	0.25	0.2%	53%
8-Mar	10.5	0.32	0.32	0.00	0.00	2.10	0.18		800	---	<0.01	<0.01	---	4,480			0.000	0.657	0.0%			0.00	0.25	0.0%	
8-Mar	10.6	0.62	0.62	---	---	---		38	---	---	0.01	0.01	---	3,550	8.11	3.58	0.001	0.658	0.1%	69%	83%	0.00	0.25	0.2%	53%
9-Mar	10.7	0.45	0.45	0.00	0.00	0.00	0.22		---	---	0.01	<0.01	---	3,550			-0.001	0.657	-0.1%			0.00	0.25	0.0%	
9-Mar	10.9	0.34	0.31	---	---	---		39	---	---	0.04	0.01	---	4,660	10.64	3.70	0.005	0.662	0.5%	69%	84%	0.00	0.26	0.2%	53%
12-Mar	10.5	0.28	0.28	0.00	0.00	1.50	0.21		---	XC-3	<0.01	<0.01	---	4,660			0.000	0.662	0.0%			0.00	0.26	0.0%	
12-Mar	10.6	0.62	0.62	---	---	---		42	---	C-4	0.02	0.01	---	3,920	8.95	3.80	0.002	0.664	0.2%	69%	84%	0.00	0.26	0.2%	53%
13-Mar	10.6	0.41	0.41	0.00	0.00	1.40	0.23		1,400	---	<0.01	<0.01	---	3,920			0.000	0.664	0.0%			0.00	0.26	0.0%	
13-Mar	10.8	0.58	0.58	---	---	---		43	---	---	0.04	0.02	---	3,750	8.57	3.90	0.004	0.668	0.4%	70%	84%	0.00	0.26	0.4%	54%
14-Mar	10.6	0.37	0.37	0.00	0.00	2.40	0.24		1,500	---	<0.01	<0.01	---	3,750			0.000	0.668	0.0%			0.00	0.26	0.0%	
14-Mar	10.9	0.49	0.49	---	---	---		44	---	---	0.02	0.01	8.21	4,950	11.31	4.02	0.003	0.670	0.3%	70%	85%	0.00	0.26	0.3%	54%
15-Mar	10.8	0.47	0.47	0.00	0.00	0.00	0.28		---	---	0.01	<0.01	---	4,950			-0.001	0.669	-0.1%			0.00	0.26	0.0%	
15-Mar	11.1	0.50	0.50	---	---	---		45	---	---	0.02	0.01	---	4,920	11.24	4.15	0.003	0.672	0.3%	70%	85%	0.00	0.26	0.3%	54%
16-Mar	10.4	0.32	0.32	0.00	0.00	1.40	0.25		---	---	<0.01	<0.01	---	4,920			0.000	0.672	0.0%			0.00	0.26	0.0%	
16-Mar	10.8	0.59	0.59	---	---	---		46	---	---	0.02	<0.01	---	5,080	11.60	4.28	0.003	0.674	0.3%	71%	85%	0.00	0.26	0.0%	54%
19-Mar	10.6	0.46	0.46	0.00	0.00	0.00	0.27		---	---	<0.01	<0.01	---	5,080			0.000	0.674	0.0%			0.00	0.26	0.0%	
19-Mar	10.6	0.46	0.46	---	---	---		49	---	---	<0.01	0.01	---	4,850	11.08	4.40	0.000	0.674	0.0%	71%	85%	0.00	0.26	0.3%	54%
20-Mar	10.6	0.38	0.38	0.00	0.00	1.10	0.25		---	---	<0.01	<0.01	---	4,850			0.000	0.674	0.0%			0.00	0.26	0.0%	

Project:	Eagle Gold
Sample Description:	Environmental Composite
Test No.:	63301
Sample I.D.:	48158
Initial Ht., meters:	1.53
Crush Size, mm:	9.5
Column I.D., meters:	0.152

Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62
Extracted, gms Au/MT:	0.790	gms Ag/MT:	0.29
Tail Assay, gms Au/MT:	0.165	gms Ag/MT:	0.19
Calculated Head, gms Au/MT:	0.955	gms Ag/MT:	0.48
Est. Weight of Sample, kg:	39.28		
Column Surface Area, square meters:	0.018		
Cement Addition, grams:	118.86	kg/MT:	3.03
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
20-Mar	10.7	0.52	0.52	---	---	---		50	---	---	0.07	0.01	---	4,310	9.84	4.51	0.008	0.682	0.8%	71%	86%	0.00	0.26	0.2%	55%
21-Mar	10.5	0.40	0.40	0.00	0.00	1.00	0.28		1,000	---	<0.01	<0.01	---	4,310			0.000	0.682	0.0%			0.00	0.26	0.0%	
21-Mar	10.8	0.54	0.54	---	---	---		51	---	---	0.02	0.01	8.59	4,260	9.73	4.62	0.002	0.684	0.2%	72%	87%	0.00	0.26	0.2%	55%
22-Mar	10.6	0.40	0.40	0.00	0.00	1.00	0.30		1,000	---	<0.01	<0.01	---	4,260			0.000	0.684	0.0%			0.00	0.26	0.0%	
22-Mar	10.9	0.42	0.42	---	---	---		52	---	---	0.02	<0.01	---	5,160	11.79	4.75	0.003	0.687	0.3%	72%	87%	0.00	0.26	0.0%	55%
23-Mar	10.7	0.32	0.32	0.00	0.00	1.40	0.31		---	---	<0.01	<0.01	---	5,160			0.000	0.687	0.0%			0.00	0.26	0.0%	
23-Mar	10.9	0.43	0.43	---	---	---		53	---	---	0.02	<0.01	---	5,080	11.60	4.88	0.003	0.689	0.3%	72%	87%	0.00	0.26	0.0%	55%
26-Mar	10.3	0.28	0.28	0.00	0.00	1.60	0.33		---	---	<0.01	<0.01	---	5,080			0.000	0.689	0.0%			0.00	0.26	0.0%	
26-Mar	10.4	0.44	0.44	---	---	---		56	---	---	0.02	<0.01	---	5,010	11.44	5.01	0.003	0.692	0.3%	72%	88%	0.00	0.26	0.0%	55%
27-Mar	10.3	0.34	0.34	0.00	0.00	1.30	0.36		---	---	<0.01	<0.01	---	5,010			0.000	0.692	0.0%			0.00	0.26	0.0%	
27-Mar	10.6	0.44	0.44	---	---	---		57	---	---	0.07	0.02	---	4,260	9.73	5.12	0.008	0.699	0.8%	73%	88%	0.00	0.27	0.4%	55%
28-Mar	10.5	0.40	0.40	0.00	0.00	1.00	0.38		1,000	---	<0.01	<0.01	---	4,260			0.000	0.699	0.0%			0.00	0.27	0.0%	
28-Mar	10.7	0.55	0.55	---	---	---		58	---	---	0.01	0.01	7.88	4,880	11.15	5.24	0.001	0.701	0.1%	73%	89%	0.00	0.27	0.3%	56%
29-Mar	10.6	0.46	0.46	0.00	0.00	0.00	0.38		---	---	<0.01	<0.01	---	4,880			0.000	0.701	0.0%			0.00	0.27	0.0%	
29-Mar	10.8	0.49	0.49	---	---	---		59	---	---	0.01	0.01	---	4,730	10.80	5.36	0.001	0.702	0.1%	73%	89%	0.00	0.27	0.2%	56%
30-Mar	10.6	0.44	0.44	0.00	0.00	0.00	0.36		---	---	<0.01	<0.01	---	4,730			0.000	0.702	0.0%			0.00	0.27	0.0%	
30-Mar	10.7	0.52	0.52	---	---	---		60	---	---	0.03	<0.01	---	4,770	10.90	5.48	0.004	0.705	0.4%	74%	89%	0.00	0.27	0.0%	56%
2-Apr	10.4	0.37	0.37	0.00	0.00	1.10	0.36		---	---	<0.01	<0.01	---	4,770			0.000	0.705	0.0%			0.00	0.27	0.0%	
2-Apr	10.4	0.47	0.47	---	---	---		63	---	---	<0.01	0.01	---	4,640	10.60	5.60	0.000	0.705	0.0%	74%	89%	0.00	0.27	0.2%	56%
3-Apr	10.4	0.32	0.32	0.00	0.00	1.30	0.38		---	---	<0.01	<0.01	---	4,640			0.000	0.705	0.0%			0.00	0.27	0.0%	
3-Apr	10.5	0.38	0.38	---	---	---		64	---	---	0.04	0.01	---	3,520	8.04	5.69	0.004	0.709	0.4%	74%	90%	0.00	0.27	0.2%	56%
4-Apr	10.5	0.26	0.26	0.00	0.00	3.00	0.42		1,800	---	<0.01	<0.01	---	3,520			0.000	0.709	0.0%			0.00	0.27	0.0%	
4-Apr	10.7	0.43	0.43	---	---	---		65	---	---	0.02	<0.01	8.50	4,580	10.46	5.81	0.002	0.711	0.2%	74%	90%	0.00	0.27	0.0%	56%
5-Apr	10.5	0.35	0.35	0.00	0.00	1.20	0.49		---	---	<0.01	<0.01	---	4,580			0.000	0.711	0.0%			0.00	0.27	0.0%	
5-Apr	10.7	0.59	0.59	---	---	---		66	---	---	0.02	<0.01	---	5,030	11.49	5.93	0.003	0.714	0.3%	75%	90%	0.00	0.27	0.0%	56%
6-Apr	10.6	0.47	0.47	0.00	0.00	0.00	0.47		---	---	<0.01	<0.01	---	5,030			0.000	0.714	0.0%			0.00	0.27	0.0%	
6-Apr	10.7	0.61	0.61	---	---	---		67	---	---	0.02	<0.01	---	4,270	9.75	6.04	0.002	0.716	0.2%	75%	91%	0.00	0.27	0.0%	56%
9-Apr	10.4	0.48	0.48	0.00	0.00	1.00	0.44		1,000	---	<0.01	<0.01	---	4,270			0.000	0.716	0.0%			0.00	0.27	0.0%	
9-Apr	10.0	0.40	0.40	---	---	---		70	---	---	0.04	<0.01	---	930	2.12	6.07	0.001	0.717	0.1%	75%	91%	0.00	0.27	0.0%	56%
10-Apr	10.2	0.20	0.20	0.00	0.00	4.80	0.51		4,400	---	<0.01	<0.01	---	930			0.000	0.717	0.0%			0.00	0.27	0.0%	
10-Apr	10.5	0.45	0.45	---	---	---		71	---	---	0.04	0.01	---	4,430	10.12	6.18	0.005	0.722	0.5%	76%	91%	0.00	0.27	0.2%	57%
11-Apr	10.5	0.40	0.40	0.00	0.00	0.90	0.64		900	---	<0.01	<0.01	---	4,430			0.000	0.722	0.0%			0.00	0.27	0.0%	
11-Apr	10.7	0.34	0.34	---	---	---		72	---	---	<0.01	<0.01	3.49	5,360	12.24	6.32	0.000	0.722	0.0%	76%	91%	0.00	0.27	0.0%	57%
12-Apr	10.7	0.30	0.30	0.00	0.00	1.60	0.62		---	---	<0.01	<0.01	---	5,360			0.000	0.722	0.0%			0.00	0.27	0.0%	
12-Apr	10.7	0.28	0.68	---	---	---		73	---	---	0.01	<0.01	---	5,090	11.63	6.45	0.001	0.723	0.1%	76%	91%	0.00	0.27	0.0%	57%
13-Apr	10.7	0.62	0.62	0.00	0.00	0.00	0.67		---	---	<0.01	<0.01	---	5,090			0.000	0.723	0.0%			0.00	0.27	0.0%	
13-Apr	10.6	0.52	0.52	---	---	---		74	---	---	0.01	<0.01	---	4,960	11.33	6.57	0.001	0.724	0.1%	76%	92%	0.00	0.27	0.0%	57%
16-Apr	10.3	0.40	0.40	0.00	0.00	0.00	0.64		---	---	<0.01	<0.01	---	4,960			0.000	0.724	0.0%			0.00	0.27	0.0%	
16-Apr	10.4	0.52	0.52	---	---	---		77	---	---	0.01	<0.01	---	5,200	11.88	6.70	0.001	0.725	0.1%	76%	92%	0.00	0.27	0.0%	57%
17-Apr	10.4	0.42	0.42	0.00	0.00	0.00	0.65		---	---	<0.01	<0.01	---	5,200			0.000	0.725	0.0%			0.00	0.27	0.0%	
17-Apr	10.5	0.49	0.49	---	---	---		78	---	---	0.04	0.01	---	4,170	9.53	6.81	0.004	0.730	0.4%	76%	92%	0.00	0.27	0.2%	57%
18-Apr	10.5	0.40	0.40	0.00	0.00	1.10	0.65		1,100	---	<0.01	<0.01	---	4,170			0.000	0.730	0.0%			0.00	0.27	0.0%	
18-Apr	10.6	0.41	0.41	---	---	---		79	---	---	<0.01	<0.01	3.64	4,710	10.76	6.93	0.000	0.730	0.0%	76%	92%	0.00	0.27	0.0%	57%
19-Apr	10.5	0.34	0.34	0.00	0.00	1.20	0.68		---	---	<0.01	<0.01	---	4,710			0.000	0.730	0.0%			0.00	0.27	0.0%	
19-Apr	10.6	0.49	0.49	---	---	---		80	---	---	0.02	<0.01	---	5,090	11.63	7.06	0.003	0.732	0.3%	77%	93%	0.00	0.27	0.0%	57%
20-Apr	10.6	0.40	0.40	0.00	0.00	0.00	0.69		---	---	<0.01	<0.01	---	5,090			0.000	0.732	0.0%			0.00	0.27	0.0%	
20-Apr	10.7	0.40	0.40	---	---	---		81	---	---	<0.01	<0.01	---	4,430	10.12	7.17	0.000	0.732	0.0%	77%	93%	0.00	0.27	0.0%	57%
23-Apr	10.3	0.20	0.20	0.00	0.00	2.70	0.69		900	---	<0.01	<0.01	---	4,430			0.000	0.732	0.0%			0.00	0.27	0.0%	
23-Apr	10.4	0.45	0.45	---	---	---		84	---	---	<0.01	<0.01	---	5,070	11.58	7.30	0.000	0.732	0.0%	77%	93%	0.00	0.27	0.0%	57%
24-Apr	10.3	0.32	0.32	0.00	0.00	1.40	0.75		---	---	<0.01	<0.01	---	5,070			0.000	0.732	0.0%			0.00	0.27	0.0%	
24-Apr	10.5	0.62	0.62	---	---	---		85	---	---	0.01	0.01	---	4,170	9.53	7.41	0.001	0.733	0.1%	77%	93%	0.00	0.27	0.2%	57%
25-Apr	10.5	0.48	0.48	0.00	0.00	1.10	0.74		1,100	---	<0.01	<0.01	---	4,170			0.000	0.733	0.0%			0.00	0.27	0.0%	
25-Apr	10.5	0.42	0.42	---	---	---		86	---	---	0.01	<0.01	6.22	5,070	11.58	7.54	0.001	0.735	0.1%	77%	93%	0.00	0.27	0.0%	57%
26-Apr	10.5	0.40	0.40	0.00	0.00	0.00	0.76		---	---	<0.01	<0.01	---	5,070			0.000	0.735	0.0%			0.00	0.27	0.0%	
26-Apr	10.5	0.57	0.57	---	---	---		87	---	---	0.02	<0.01	---	5,030	11.49	7.67	0.003	0.737	0.3%	77%	93%	0.00	0.27	0.0%	57%
30-Apr	10.4	0.40	0.40	0.00	0.00	0.00	0.73		---	---	<0.01	<0.01	---	5,030			0.000	0.737	0.0%			0.00	0.27	0.0%	
30-Apr	10.2	0.34	0.34	---	---	---		91	---	---	<0.01	<0.01	---	5,390	12.31	7.80	0.000	0.737	0.0%	77%	93%	0.00	0.27	0.0%	57%
1-May	10.3	0.25	0.25	0.00	0.00	1.90	0.74		---	---	<0.01	<0.01	---	5,390			0.000	0.737	0.0%			0.00	0.27	0.0%	
1-May	10.4	0.31	0.31	---	---	---		92	---	---	<0.01	<0.01	---	4,320	9.87	7.91	0.000	0.737	0.0%	77%	93%	0.00	0.27	0.0%	57%
2-May	10.3	0.26	0.26	0.00	0.00	2.50	0.80		1,000	---	<0.01	<0.01	---	4,320			0.000	0.737	0.0%			0.00	0.27	0.0%	
2-May	10.4	0.30	0.30	---	---	---		93	---	---	0.02	<0.01	6.58	5,060	11.56	8.04	0.003	0.740	0.3%	77%	94%	0.00	0.27	0.0%	57%
3-May	10.3	0.23	0.23	0.00	0.00	1.90	0.86		---	---	<0.01	<0.01	---	5,060			0.000	0.740	0.0%			0.00	0.27	0.0%	
3-May	10.3	0.61	0.61	---	---	---		94	---	---	0.01	<0.01	---	4,310	9.84	8.15	0.001	0.741	0.1%	78%	94%	0.00	0.27	0.0%	57%
4-May	10.5	0.43	0.43	0.00	0.00	0.00	0.87		---	---	<0.01	<0.01	---	4,310			0.000	0.741	0.0%			0.00	0.27	0.0%	
4-May	10.4	0.52	0.52	---	---	---		95	---	---	<0.01	<0.01	---	5,430	12.40	8.29	0.000	0.741	0.0%	78%	94%	0.00	0.27	0.0%	57%
7-May	10.4	0.40	0.40	0.00	0.00	0.00	0.83		---	---	<0.01	<0.01	---	5,430			0.000	0.741	0.0%			0.00	0.27	0.0%	
7-May	10.3	0.41	0.41	---	---	---		98	---	---	0.01	0.01	---	4,330	9.89	8.40	0.001	0.742	0.1%	78%	94%	0.00	0.28	0.2%	57%
8-May	10.3	0.30	0.30	0.00	0.00	2.30	0.83		1,000	---	<0.01	<0.01	---	4,330			0.000	0.742	0.0%			0.00	0.28	0.0%	
8-May	10.3	0.39	0.39	---	---	---		99	---	---	<0.01	<0.01	---	4,890	11.17	8.52	0.000	0.742	0.0%	78%	94%	0.00	0.28	0.0%	57%
9-May	10.2	0.31	0.31	0.00	0.00	1.40	0.89		---	---	<0.01	<0.01	---	4,890			0.000	0.742	0.0%			0.00	0.28	0.0%	
9-May	10.3	0.53	0.53	---	---	---		100	---	---	0.01	0.01	6.14	4,980	11.38	8.65	0.001	0.743	0.1%	78%	94%	0.00	0.28	0.3%	57%
10-May	10.4	0.41	0.41	0.00	0.00	0.00	0.90		---	---	<0.01	<0.01	---	4,980			0.000	0.743	0.0%			0.00	0.28	0.0%	
10-May	10.3	0.49	0.49	---	---	---		101	---	---	<0.01	0.01	---	4,570	10.44	8.77	0.000	0.743	0.0%	78%	94%	0.00	0.28	0.2%	58%
11-May	10.3	0.40	0.40	0.00	0.00	0.00	0.88		---	---	<0.01	<0.01	---	4,570			0.000	0.743	0.0%			0.00	0.28	0.0%	
11-May	10.4	0.34	0.34	---	---	---		102	---	---	<0.01	<0.01	---	4,680	10.69	8.89	0.000	0.743	0.0%	78%	94%	0.00	0.28	0.0%	58%

Project:	Eagle Gold																								
Sample Description:	Environmental Composite																								
Test No.:	63301																								
Sample I.D.:	48158																								
Initial Ht., meters:	1.53																								
Crush Size, mm:	9.5																								
Column I.D., meters:	0.152																								

Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62
Extracted, gms Au/MT:	0.790	gms Ag/MT:	0.29
Tail Assay, gms Au/MT:	0.165	gms Ag/MT:	0.19
Calculated Head, gms Au/MT:	0.955	gms Ag/MT:	0.48
Est. Weight of Sample, kg:	39.28		
Column Surface Area, square meters:	0.018		
Cement Addition, grams:	118.86	kg/MT:	3.03
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
14-May	10.3	0.23	0.23	0.00	0.00	1.70	0.89		---	---	<0.01	<0.01	---	4,680			0.000	0.743	0.0%			0.00	0.28	0.0%	
14-May	10.2	0.34	0.34	---	---	---		105	---	---	0.01	<0.01	---	4,580	10.46	9.00	0.001	0.744	0.1%	78%	94%	0.00	0.28	0.0%	58%
15-May	10.3	0.27	0.27	0.00	0.00	1.50	0.94		---	---	<0.01	<0.01	---	4,580			0.000	0.744	0.0%			0.00	0.28	0.0%	
15-May	10.3	0.31	0.31	---	---	---		106	---	---	0.02	<0.01	---	3,900	8.91	9.10	0.002	0.746	0.2%	78%	94%	0.00	0.28	0.0%	58%
16-May	10.2	0.24	0.24	0.00	0.00	2.80	0.97		1,400	---	<0.01	0.01	---	3,900			0.000	0.746	0.0%			0.00	0.28	-0.2%	
16-May	10.3	0.50	0.50	---	---	---		107	---	---	0.02	0.01	7.17	4,410	10.07	9.21	0.002	0.749	0.2%	78%	95%	0.00	0.28	0.2%	58%
17-May	10.3	0.33	0.33	0.00	0.00	2.10	1.02		900	---	<0.01	0.01	---	4,410			0.000	0.749	0.0%			0.00	0.28	-0.2%	
17-May	10.4	0.34	0.34	---	---	---		108	---	---	0.01	0.01	---	4,750	10.85	9.34	0.001	0.750	0.1%	78%	95%	0.00	0.28	0.3%	58%
18-May	10.3	0.29	0.29	0.00	0.00	1.50	1.05		---	---	<0.01	0.01	---	4,750			0.000	0.750	0.0%			0.00	0.28	-0.3%	
18-May	10.3	0.56	0.56	---	---	---		109	---	---	0.01	0.01	---	5,070	11.58	9.46	0.001	0.751	0.1%	79%	95%	0.00	0.28	0.3%	58%
21-May	10.4	0.34	0.34	0.00	0.00	1.30	1.06		---	---	<0.01	<0.01	---	5,070			0.000	0.751	0.0%			0.00	0.28	0.0%	
21-May	10.3	0.54	0.54	---	---	---		112	---	---	0.04	0.01	---	4,830	11.03	9.59	0.005	0.756	0.5%	79%	96%	0.00	0.28	0.3%	58%
22-May	10.3	0.40	0.40	0.00	0.00	0.00	1.06		---	---	<0.01	<0.01	---	4,830			0.000	0.756	0.0%			0.00	0.28	0.0%	
22-May	10.3	0.51	0.51	---	---	---		113	---	---	0.04	0.01	---	4,060	9.27	9.69	0.004	0.760	0.4%	80%	96%	0.00	0.28	0.2%	58%
23-May	10.3	0.37	0.37	0.00	0.00	2.10	1.05		1,200	---	<0.01	<0.01	---	4,060			0.000	0.760	0.0%			0.00	0.28	0.0%	
23-May	10.3	0.50	0.50	---	---	---		114	---	---	<0.01	0.01	7.44	4,760	10.87	9.81	0.000	0.760	0.0%	80%	96%	0.00	0.28	0.3%	58%
24-May	10.4	0.40	0.40	0.00	0.00	0.00	1.09		---	---	<0.01	<0.01	---	4,760			0.000	0.760	0.0%			0.00	0.28	0.0%	
24-May	10.3	0.34	0.34	---	---	---		115	---	---	0.03	<0.01	---	4,970	11.35	9.94	0.004	0.764	0.4%	80%	97%	0.00	0.28	0.0%	58%
25-May	10.3	0.25	0.25	0.00	0.00	1.70	1.08		---	---	<0.01	<0.01	---	4,970			0.000	0.764	0.0%			0.00	0.28	0.0%	
25-May	10.2	0.59	0.59	---	---	---		116	---	---	<0.01	0.01	---	4,610	10.53	10.06	0.000	0.764	0.0%	80%	97%	0.00	0.28	0.2%	59%
29-May	10.2	0.36	0.36	0.00	0.00	1.10	1.10		---	---	<0.01	<0.01	---	4,610			0.000	0.764	0.0%			0.00	0.28	0.0%	
29-May	10.2	0.36	0.36	---	---	---		120	---	---	<0.01	<0.01	---	4,960	11.33	10.18	0.000	0.764	0.0%	80%	97%	0.00	0.28	0.0%	59%
30-May	10.1	0.27	0.27	0.00	0.00	1.60	1.12		---	---	<0.01	<0.01	---	4,960			0.000	0.764	0.0%			0.00	0.28	0.0%	
30-May	10.2	0.48	0.48	---	---	---		121	---	---	<0.01	<0.01	8.02	3,790	8.66	10.28	0.000	0.764	0.0%	80%	97%	0.00	0.28	0.0%	59%
31-May	10.3	0.33	0.33	0.00	0.00	2.50	1.15		1,500	---	<0.01	<0.01	---	3,790			0.000	0.764	0.0%			0.00	0.28	0.0%	
31-May	10.3	0.61	0.61	---	---	---		122	---	---	0.02	0.01	---	4,000	9.14	10.38	0.002	0.766	0.2%	80%	97%	0.00	0.28	0.2%	59%
1-Jun	10.3	0.49	0.49	0.00	0.00	0.00	1.19		---	---	<0.01	<0.01	---	4,000			0.000	0.766	0.0%			0.00	0.28	0.0%	
1-Jun	10.2	0.69	0.69	---	---	---		123	---	---	0.03	<0.01	---	5,030	11.49	10.51	0.004	0.770	0.4%	81%	97%	0.00	0.28	0.0%	59%
4-Jun	10.4	0.40	0.40	0.00	0.00	0.00	1.13		---	---	<0.01	<0.01	---	5,030			0.000	0.770	0.0%			0.00	0.28	0.0%	
4-Jun	10.2	0.41	0.41	---	---	---		126	---	---	<0.01	0.01	---	4,770	10.90	10.63	0.000	0.770	0.0%	81%	97%	0.00	0.29	0.3%	59%
5-Jun	10.2	0.31	0.31	0.00	0.00	1.40	1.13		---	---	<0.01	<0.01	---	4,770			0.000	0.770	0.0%			0.00	0.29	0.0%	
5-Jun	10.2	0.35	0.35	---	---	---		127	---	---	0.02	0.01	---	4,690	10.71	10.75	0.002	0.772	0.2%	81%	98%	0.00	0.29	0.2%	59%
6-Jun	10.2	0.27	0.27	0.00	0.00	2.20	1.18		600	---	<0.01	<0.01	---	4,690			0.000	0.772	0.0%			0.00	0.29	0.0%	
6-Jun	10.2	0.49	0.49	---	---	---		128	---	---	0.02	<0.01	8.03	4,390	10.03	10.86	0.002	0.774	0.2%	81%	98%	0.00	0.29	0.0%	59%
7-Jun	10.3	0.39	0.39	0.00	0.00	1.80	1.21		900	---	<0.01	<0.01	---	4,390			0.000	0.774	0.0%			0.00	0.29	0.0%	
7-Jun	10.2	0.57	0.57	---	---	---		129	---	---	0.01	0.01	---	4,780	10.92	10.98	0.001	0.776	0.1%	81%	98%	0.00	0.29	0.3%	60%
8-Jun	10.4	0.46	0.46	0.00	0.00	0.00	1.22		---	---	<0.01	0.02	---	4,780			0.000	0.776	0.0%			0.00	0.29	-0.5%	
8-Jun	10.2	0.37	0.37	---	---	---		130	---	---	0.03	0.02	7.05	5,010	11.44	11.11	0.004	0.779	0.4%	82%	99%	0.00	0.29	0.5%	60%
11-Jun	10.3	0.27	0.27	0.00	0.00	0.00	1.22		---	---	<0.01	<0.01	---	5,010			0.000	0.779	0.0%			0.00	0.29	0.0%	
11-Jun	10.2	0.47	0.51	---	---	---		133	---	---	0.01	<0.01	---	4,110	9.39	11.21	0.001	0.781	0.1%	82%	99%	0.00	0.29	0.0%	60%
12-Jun	10.3	0.36	0.36	0.00	0.00	0.00	1.22		1,200	---	0.01	0.01	---	4,110			-0.001	0.779	-0.1%			0.00	0.29	-0.2%	
12-Jun	10.2	0.29	0.29	---	---	---		134	---	---	0.05	0.01	---	4,820	11.01	11.34	0.006	0.786	0.6%	82%	99%	0.00	0.29	0.3%	60%
13-Jun	10.3	0.24	0.24	0.00	0.00	0.00	1.22		---	---	0.01	0.01	---	4,820			-0.001	0.784	-0.1%			0.00	0.29	-0.3%	
13-Jun	10.2	0.25	0.25	---	---	---		135	---	---	0.01	0.01	7.09	4,790	10.94	11.46	0.001	0.786	0.1%	82%	99%	0.00	0.29	0.3%	60%
14-Jun	10.1	0.22	0.22	0.00	0.00	0.00	1.23		---	---	<0.01	<0.01	---	4,790			0.000	0.786	0.0%			0.00	0.29	0.0%	
14-Jun	10.1	0.22	0.22	---	---	---		136	---	---	0.01	<0.01	---	4,710	10.76	11.58	0.001	0.787	0.1%	82%	100%	0.00	0.29	0.0%	60%
15-Jun	10.0	0.17	0.17	0.00	0.00	0.00	1.23		---	---	<0.01	0.01	---	4,710			0.000	0.787	0.0%			0.00	0.29	-0.2%	
15-Jun	10.0	0.20	0.20	---	---	---		137	---	---	0.01	<0.01	---	4,620	10.55	11.70	0.001	0.788	0.1%	82%	100%	0.00	0.29	0.0%	59%
18-Jun	9.9	0.11	0.11	0.00	0.00	0.00	1.23		700	---	<0.01	0.01	---	4,620			0.000	0.788	0.0%			0.00	0.29	-0.2%	
18-Jun	9.9	0.14	0.14	---	---	---		140	---	---	<0.01	0.01	---	4,610	10.53	11.81	0.000	0.788	0.0%	82%	100%	0.00	0.29	0.2%	59%
19-Jun	9.9	0.08	0.08	0.00	0.00	0.00	1.24		700	---	<0.01	0.01	---	4,610			0.000	0.788	0.0%			0.00	0.29	-0.2%	
19-Jun	10.1	0.09	0.09	---	---	---		141	---	---	0.01	0.02	---	4,600	10.51	11.93	0.001	0.789	0.1%	83%	100%	0.00	0.29	0.5%	60%
20-Jun	9.9	0.03	0.03	0.00	0.00	0.00	1.24		700	---	<0.01	0.01	---	4,600			0.000	0.789	0.0%			0.00	0.29	-0.2%	
20-Jun	10.0	0.04	0.04	---	---	---		142	---	---	<0.01	0.02	6.73	4,530	10.35	12.05	0.000	0.789	0.0%	83%	100%	0.00	0.29	0.5%	60%
21-Jun	9.9	0.04	0.04	0.00	0.00	0.00	1.25		---	---	<0.01	0.01	---	4,530			0.000	0.789	0.0%			0.00	0.29	-0.2%	
21-Jun	9.9	0.04	0.04	---	---	---		143	---	---	0.01	0.01	---	4,930	11.26	12.17	0.001	0.790	0.1%	83%	100%	0.00	0.29	0.3%	60%
22-Jun	9.9	0.03	0.03	0.00	0.00	0.00	1.24		---	XC-4	<0.01	<0.01	---	4,930			0.000	0.790	0.0%			0.00	0.29	0.0%	

Project:	Eagle Gold																								
Sample Description:	Environmental Composite																								
Test No.:	63304																								
Sample I.D.:	48158																								
Initial Ht., meters:	1.54																								
Crush Size, mm:	9.5																								
Column I.D., meters:	0.152																								

Head Screen, gms Au/MT:	1.077		gms Ag/MT:	0.56																					
Head Assay, gms Au/MT:	1.041		gms Ag/MT:	0.62																					
Extracted, gms Au/MT:	0.802		gms Ag/MT:	0.34																					
Tail Assay, gms Au/MT:	0.156		gms Ag/MT:	0.20																					
Calculated Head, gms Au/MT:	0.957		gms Ag/MT:	0.54																					
Weight of Sample, kg:	39.24																								
Column Surface Area, square meters:	0.018																								
Cement Addition, grams:	118.86		kg/MT:	3.03																					
Hydrated Lime Addition, grams:	0.00		kg/MT:	0.00																					

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
30-Jan	---	---	---	0.00	0.00	6.88	0.00		6,875	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
30-Jan	---	---	---	---	---	---		0	---	---	---	---	---	---	0.00	0.00	0.000	0.000	0.0%	0%	0%	0.00	0.00	0.0%	0%
31-Jan	---	---	---	0.00	0.00	5.30	0.18		5,300	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
31-Jan	11.8	0.46	0.46	---	---	---		1	---	C-1	2.12	1.34	18.90	4,600	10.51	0.12	0.249	0.249	26.0%	26%	31%	0.16	0.16	29.3%	29%
1-Feb	10.9	0.22	0.22	0.00	0.00	1.80	0.26		---	---	<0.01	<0.01	---	4,600			0.000	0.249	0.0%			0.00	0.16	0.0%	
1-Feb	11.7	0.73	0.73	---	---	---		2	---	---	0.97	0.45	8.41	5,160	11.79	0.25	0.128	0.376	13.3%	39%	47%	0.06	0.22	11.0%	40%
2-Feb	11.5	0.62	0.62	0.00	0.00	0.00	0.21		---	---	<0.01	0.01	---	5,160			0.000	0.376	0.0%			0.00	0.21	-0.2%	
2-Feb	11.5	0.95	0.95	---	---	---		3	---	---	0.55	0.19	7.21	4,220	9.64	0.36	0.059	0.435	6.2%	45%	54%	0.02	0.24	3.8%	44%
3-Feb	11.6	0.95	0.95	0.00	0.00	1.10	0.13		1,100	---	0.01	0.02	---	4,220			-0.001	0.434	-0.1%			0.00	0.23	-0.4%	
3-Feb	11.9	0.82	0.82	---	---	---		4	---	---	0.31	0.11	---	5,100	11.65	0.49	0.040	0.474	4.2%	50%	59%	0.01	0.25	2.7%	46%
4-Feb	11.6	0.76	0.76	0.00	0.00	0.00	0.13		---	---	<0.01	0.01	---	5,100			0.000	0.474	0.0%			0.00	0.25	-0.2%	
4-Feb	11.9	0.94	0.94	---	---	---		5	---	---	0.26	0.08	---	4,700	10.74	0.61	0.031	0.506	3.3%	53%	63%	0.01	0.26	1.8%	48%
5-Feb	11.6	0.68	0.68	0.00	0.00	0.00	0.12		---	---	<0.01	0.01	---	4,700			0.000	0.506	0.0%			0.00	0.25	-0.2%	
5-Feb	11.8	0.89	0.89	---	---	---		6	---	---	0.12	0.05	---	5,380	12.29	0.74	0.016	0.522	1.7%	55%	65%	0.01	0.26	1.3%	49%
6-Feb	11.5	0.80	0.80	0.00	0.00	0.00	0.09		---	---	<0.01	<0.01	---	5,380			0.000	0.522	0.0%			0.00	0.26	0.0%	
6-Feb	11.7	0.81	0.81	---	---	---		7	---	---	0.14	0.03	---	4,100	9.37	0.85	0.015	0.537	1.5%	56%	67%	0.00	0.26	0.6%	49%
7-Feb	11.3	0.68	0.68	0.00	0.00	1.20	0.09		1,200	XC-1	<0.01	<0.01	---	4,100			0.000	0.537	0.0%			0.00	0.26	0.0%	
7-Feb	11.6	0.85	0.85	---	---	---		8	---	C-2	0.12	0.02	---	5,320	12.15	0.98	0.016	0.553	1.7%	58%	69%	0.00	0.27	0.5%	50%
8-Feb	11.1	0.58	0.58	0.00	0.00	0.00	0.11		---	---	<0.01	0.01	---	5,320			0.000	0.553	0.0%			0.00	0.27	-0.3%	
8-Feb	11.7	0.79	0.79	---	---	---		9	---	---	0.09	0.04	11.50	5,100	11.65	1.11	0.012	0.565	1.2%	59%	70%	0.01	0.27	1.0%	51%
9-Feb	11.0	0.65	0.65	0.00	0.00	0.00	0.08		---	---	<0.01	0.01	---	5,100			0.000	0.565	0.0%			0.00	0.27	-0.2%	
9-Feb	11.4	0.65	0.65	---	---	---		10	---	---	0.08	0.02	---	5,180	11.83	1.25	0.011	0.575	1.1%	60%	72%	0.00	0.27	0.5%	51%
10-Feb	11.3	0.63	0.63	0.00	0.00	0.00	0.07		---	---	<0.01	<0.01	---	5,180			0.000	0.575	0.0%			0.00	0.27	0.0%	
10-Feb	11.6	0.64	0.64	---	---	---		11	---	---	0.07	0.01	---	4,580	10.46	1.36	0.008	0.583	0.9%	61%	73%	0.00	0.27	0.2%	51%
13-Feb	10.8	0.45	0.45	0.00	0.00	0.00	0.08		---	---	<0.01	<0.01	---	4,580			0.000	0.583	0.0%			0.00	0.27	0.0%	
13-Feb	11.5	0.62	0.62	---	---	---		14	---	---	0.04	0.01	---	5,660	12.93	1.51	0.006	0.589	0.6%	62%	73%	0.00	0.28	0.3%	51%
14-Feb	10.9	0.50	0.50	0.00	0.00	0.00	0.07		---	---	0.01	<0.01	---	5,660			-0.001	0.588	-0.2%			0.00	0.28	0.0%	
14-Feb	11.5	0.55	0.55	---	---	---		15	---	---	0.18	0.03	---	3,860	8.82	1.60	0.018	0.605	1.8%	63%	76%	0.00	0.28	0.5%	52%
15-Feb	11.2	0.50	0.50	0.00	0.00	1.40	0.07		1,400	---	<0.01	<0.01	---	3,860			0.000	0.605	0.0%			0.00	0.28	0.0%	
15-Feb	11.6	0.61	0.61	---	---	---		16	---	---	0.05	0.01	12.60	4,960	11.33	1.73	0.006	0.612	0.7%	64%	76%	0.00	0.28	0.2%	52%
16-Feb	11.0	0.43	0.43	0.00	0.00	0.00	0.10		---	---	<0.01	<0.01	---	4,960			0.000	0.612	0.0%			0.00	0.28	0.0%	
16-Feb	11.3	0.47	0.47	---	---	---		17	---	---	0.05	0.01	---	5,770	13.18	1.88	0.007	0.619	0.8%	65%	77%	0.00	0.28	0.3%	52%
17-Feb	11.2	0.45	0.45	0.00	0.00	0.00	0.08		---	---	<0.01	<0.01	---	5,770			0.000	0.619	0.0%			0.00	0.28	0.0%	
17-Feb	11.5	0.57	0.57	---	---	---		18	---	---	0.30	0.01	---	4,570	10.44	1.99	0.035	0.654	3.6%	68%	82%	0.00	0.28	0.2%	53%
21-Feb	10.3	0.40	0.40	0.00	0.00	0.00	0.07		---	XC-2	0.02	<0.01	---	4,570			-0.002	0.652	-0.2%			0.00	0.28	0.0%	
21-Feb	10.8	0.49	0.49	---	---	---		22	---	C-3	0.03	<0.01	---	5,760	13.16	2.14	0.004	0.656	0.5%	69%	82%	0.00	0.28	0.0%	53%
22-Feb	10.5	0.32	0.32	0.00	0.00	1.60	0.06		---	---	<0.01	<0.01	---	5,760			0.000	0.656	0.0%			0.00	0.28	0.0%	
22-Feb	11.3	0.32	0.32	---	---	---		23	---	---	0.08	0.02	11.60	4,240	9.68	2.25	0.009	0.665	0.9%	69%	83%	0.00	0.28	0.4%	53%
23-Feb	10.7	0.35	0.35	0.00	0.00	2.20	0.11		1,100	---	<0.01	<0.01	---	4,240			0.000	0.665	0.0%			0.00	0.28	0.0%	
23-Feb	11.2	0.38	0.38	---	---	---		24	---	---	0.03	<0.01	---	4,820	11.01	2.37	0.004	0.668	0.4%	70%	83%	0.00	0.28	0.0%	53%
24-Feb	10.6	0.37	0.37	0.00	0.00	1.10	0.17		---	---	<0.01	<0.01	---	4,820			0.000	0.668	0.0%			0.00	0.28	0.0%	
24-Feb	11.0	0.47	0.47	---	---	---		25	---	---	0.03	0.01	---	4,630	10.58	2.49	0.004	0.672	0.4%	70%	84%	0.00	0.29	0.2%	53%
27-Feb	10.6	0.40	0.40	0.00	0.00	0.00	0.18		---	---	<0.01	<0.01	---	4,630			0.000	0.672	0.0%			0.00	0.29	0.0%	
27-Feb	10.9	0.55	0.55	---	---	---		28	---	---	0.02	0.01	---	4,700	10.74	2.61	0.002	0.674	0.3%	70%	84%	0.00	0.29	0.2%	53%
28-Feb	10.4	0.40	0.40	0.00	0.00	0.00	0.16		---	---	<0.01	<0.01	---	4,700			0.000	0.674	0.0%			0.00	0.29	0.0%	
28-Feb	10.7	0.47	0.47	---	---	---		29	---	---	0.07	0.01	---	4,740	10.83	2.73	0.008	0.683	0.9%	71%	85%	0.00	0.29	0.2%	54%
29-Feb	10.4	0.40	0.40	0.00	0.00	0.00	0.15		---	---	<0.01	<0.01	---	4,740			0.000	0.683	0.0%			0.00	0.29	0.0%	
29-Feb	10.8	0.40	0.40	---	---	---		30	---	---	0.04	<0.01	11.00	4,630	10.58	2.85	0.005	0.688	0.5%	72%	86%	0.00	0.29	0.0%	54%
1-Mar	10.8	0.29	0.29	0.00	0.00	1.40	0.15		---	---	<0.01	<0.01	---	4,630			0.000	0.688	0.0%			0.00	0.29	0.0%	
1-Mar	11.2	0.38	0.38	---	---	---		31	---	---	0.02	0.01	---	4,510	10.30	2.96	0.002	0.690	0.2%	72%	86%	0.00	0.29	0.2%	54%
2-Mar	10.8	0.28	0.28	0.00	0.00	1.40	0.19		---	---	<0.01	<0.01	---	4,510			0.000	0.690	0.0%			0.00	0.29	0.0%	
2-Mar	11.2	0.50	0.50	---	---	---		32	---	---	0.02	0.01	---	4,580	10.46	3.08	0.002	0.692	0.2%	72%	86%	0.00	0.29	0.2%	54%
5-Mar	10.4	0.33	0.33	0.00	0.00	1.20	0.20		---	---	0.01	<0.01	---	4,580			-0.001	0.691	-0.1%			0.00	0.29	0.0%	
5-Mar	10.3	0.38	0.38	---	---	---		35	---	---	0.04	0.01	---	4,370	9.98	3.19	0.004	0.695	0.5%	73%	87%	0.00	0.29	0.2%	54%
6-Mar	10.4	0.30	0.30	0.00	0.00	2.20	0.22		900	---	0.01	<0.01	---	4,370			-0.001	0.694	-0.1%			0.00	0.29	0.0%	
6-Mar	10.5	0.39	0.39	---	---	---		36	---	---	0.05	0.01	---	4,020	9.18	3.29	0.005	0.699	0.5%	73%	87%	0.00	0.29	0.2%	54%
7-Mar	10.6	0.28	0.28	0.00	0.00	2.60	0.27		1,300	---	<0.01	<0.01	---	4,020			0.000	0.699	0.0%			0.00	0.29	0.0%	
7-Mar	11.1	0.60	0.60	---	---	---		37	---	---	0.03	0.01	9.14	5,120	11.69	3.42	0.004	0.703	0.4%	73%	88%	0.00	0.29	0.2%	55%
8-Mar	10.6	0.48	0.48	0.00	0.00	0.00	0.29		---	---	<0.01	<0.01	---	5,120			0.000	0.703	0.0%			0.00	0.29	0.0%	
8-Mar	10.8	0.41	0.41	---	---	---		38	---	---	0.02	0.01	---	5,220	11.92	3.56	0.003	0.706	0.3%	74%	88%	0.00	0.29	0.2%	55%
9-Mar	10.7	0.34	0.34	0.00	0.00	1.40	0.27		---	---	0.03	<0.01	---	5,220			-0.004	0.702	-0.4%			0.00	0.29	0.0%	
9-Mar	10.9	0.73	0.73	---	---	---		39	---	---	0.03	0.01	---	4,710	10.76	3.68	0.004	0.706	0.4%	74%	88%	0.00	0.30	0.2%	55%
12-Mar	10.6	0.47	0.47	0.00	0.00	0.00	0.28		---	XC-3	<0.01	<0.01	---	4,710			0.000	0.706	0.0%			0.00	0.30	0.0%	
12-Mar	10.7	0.46	0.46	---	---	---		42	---	C-4	0.02	0.01	---	5,460	12.47	3.82	0.003	0.708	0.3%	74%	88%	0.00	0.30	0.3%	55%
13-Mar	10.6	0.36	0.36	0.00	0.00	1.30	0.26		---	---	<0.01	<0.01	---	5,460			0.000	0.708	0.0%			0.00	0.30	0.0%	
13-Mar	10.8	0.56	0.56	---	---	---		43	---	---	0.06	0.02	---	4,080	9.32	3.92	0.006	0.715	0.7%	75%	89%	0.00	0.30	0.4%	56%
14-Mar	10.7	0.32	0.32	0.00	0.00	2.30	0.29		1,200	---	<0.01	<0.01	---	4,080			0.000	0.715	0.0%			0.00	0.30	0.0%	
14-Mar	10.9	0.50	0.50	---	---	---		44	---	---	0.04	<0.01	9.38	5,140	11.74	4.05	0.005	0.720	0.5%	75%	90%	0.00	0.30	0.0%	56%
15-Mar	10.3	0.51	0.51	0.00	0.00	0.00	0.33		---	---	<0.01	<0.01	---	5,140			0.000	0.720	0.0%			0.00	0.30	0.0%	
15-Mar	10.7	0.49	0.49	---	---	---		45	---	---	0.02	0.01	---	4,830	11.03	4.17	0.002	0.722	0.3%	75%	90%	0.00	0.30	0.2%	56%
16-Mar	10.5	0.31	0.31	0.00	0.00	1.40	0.30		---	---	<0.01	<0.01	---	4,830			0.000	0.722	0.0%			0.00	0.30	0.0%	
16-Mar	10.7	0.60	0.60	---	---	---		46	---	---	0.01	<0.01	---	5,190	11.85	4.31	0.001	0.724	0.1%	76%	90%	0.00	0.30	0.0%	56%
19-Mar	10.5	0.41	0.41	0.00	0.00	0.00	0.32		---	---	<0.01	<0.01	---	5,190			0.000	0.724	0.0%			0.00	0.30	0.0%	
19-Mar	10.4	0.35	0.35	---	---	---		49	---	---	0.01	0.01	---	4,680	10.69	4.43	0.001	0.725	0.1%	76%	90%	0.00	0.30	0.2%	56%
20-Mar	10.4	0.27	0.27	0.00	0.00	1.50	0.32		---	---	<0.01	<0.01	---	4,680			0.000	0.725	0.0%			0.00	0.30	0.0%	

Project:	Eagle Gold
Sample Description:	Environmental Composite
Test No.:	63304
Sample I.D.:	48158
Initial Ht., meters:	1.54
Crush Size, mm:	9.5
Column I.D., meters:	0.152

Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62
Extracted, gms Au/MT:	0.802	gms Ag/MT:	0.34
Tail Assay, gms Au/MT:	0.156	gms Ag/MT:	0.20
Calculated Head, gms Au/MT:	0.957	gms Ag/MT:	0.54
Weight of Sample, kg:	39.24		
Column Surface Area, square meters:	0.018		
Cement Addition, grams:	118.86	kg/MT:	3.03
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
20-Mar	10.4	0.52	0.52	---	---	---		50	---	---	0.02	0.02	---	4,430	10.12	4.54	0.002	0.727	0.2%	76%	91%	0.00	0.30	0.4%	57%
21-Mar	10.6	0.37	0.37	0.00	0.00	1.90	0.35		900	---	<0.01	<0.01	---	4,430			0.000	0.727	0.0%			0.00	0.30	0.0%	
21-Mar	10.8	0.34	0.34	---	---	---		51	---	---	0.02	<0.01	9.33	4,360	9.96	4.65	0.002	0.729	0.2%	76%	91%	0.00	0.30	0.0%	57%
22-Mar	10.5	0.25	0.25	0.00	0.00	2.40	0.40		900	---	<0.01	<0.01	---	4,360			0.000	0.729	0.0%			0.00	0.30	0.0%	
22-Mar	10.9	0.64	0.64	---	---	---		52	---	---	0.02	<0.01	---	4,970	11.35	4.78	0.003	0.732	0.3%	76%	91%	0.00	0.30	0.0%	57%
23-Mar	10.7	0.52	0.52	0.00	0.00	0.00	0.42		---	---	<0.01	<0.01	---	4,970			0.000	0.732	0.0%			0.00	0.30	0.0%	
23-Mar	11.0	0.46	0.46	---	---	---		53	---	---	0.02	0.01	---	4,850	11.08	4.90	0.002	0.734	0.3%	77%	92%	0.00	0.31	0.2%	57%
26-Mar	10.4	0.35	0.35	0.00	0.00	1.20	0.39		---	---	<0.01	<0.01	---	4,850			0.000	0.734	0.0%			0.00	0.31	0.0%	
26-Mar	10.5	0.64	0.64	---	---	---		56	---	---	0.03	<0.01	---	4,910	11.22	5.03	0.004	0.738	0.4%	77%	92%	0.00	0.31	0.0%	57%
27-Mar	10.4	0.45	0.45	0.00	0.00	0.00	0.40		---	---	<0.01	<0.01	---	4,910			0.000	0.738	0.0%			0.00	0.31	0.0%	
27-Mar	10.6	0.45	0.45	---	---	---		57	---	---	0.04	0.01	---	4,090	9.34	5.13	0.004	0.742	0.4%	78%	93%	0.00	0.31	0.2%	57%
28-Mar	10.5	0.35	0.35	0.00	0.00	2.20	0.40		1,200	---	<0.01	<0.01	---	4,090			0.000	0.742	0.0%			0.00	0.31	0.0%	
28-Mar	10.7	0.54	0.54	---	---	---		58	---	---	0.02	0.01	9.49	4,670	10.67	5.25	0.002	0.745	0.2%	78%	93%	0.00	0.31	0.2%	57%
29-Mar	10.6	0.40	0.40	0.00	0.00	0.00	0.45		---	---	<0.01	<0.01	---	4,670			0.000	0.745	0.0%			0.00	0.31	0.0%	
29-Mar	10.8	0.70	0.70	---	---	---		59	---	---	0.01	0.01	---	4,940	11.28	5.37	0.001	0.746	0.1%	78%	93%	0.00	0.31	0.2%	58%
30-Mar	10.6	0.55	0.55	0.00	0.00	0.00	0.39		---	---	<0.01	<0.01	---	4,940			0.000	0.746	0.0%			0.00	0.31	0.0%	
30-Mar	10.7	0.44	0.44	---	---	---		60	---	---	0.02	<0.01	---	4,060	9.27	5.48	0.002	0.748	0.2%	78%	93%	0.00	0.31	0.0%	58%
2-Apr	10.4	0.34	0.34	0.00	0.00	2.30	0.39		1,200	---	<0.01	<0.01	---	4,060			0.000	0.748	0.0%			0.00	0.31	0.0%	
2-Apr	10.4	0.48	0.48	---	---	---		63	---	---	0.01	<0.01	---	5,200	11.88	5.61	0.001	0.749	0.1%	78%	93%	0.00	0.31	0.0%	58%
3-Apr	10.4	0.40	0.40	0.00	0.00	0.00	0.46		---	---	<0.01	<0.01	---	5,200			0.000	0.749	0.0%			0.00	0.31	0.0%	
3-Apr	10.6	0.51	0.51	---	---	---		64	---	---	0.04	0.01	---	4,060	9.27	5.71	0.004	0.753	0.4%	79%	94%	0.00	0.31	0.2%	58%
4-Apr	10.6	0.37	0.37	0.00	0.00	2.10	0.44		1,200	---	<0.01	<0.01	---	4,060			0.000	0.753	0.0%			0.00	0.31	0.0%	
4-Apr	10.8	0.51	0.51	---	---	---		65	---	---	<0.01	<0.01	8.25	4,870	11.12	5.84	0.000	0.753	0.0%	79%	94%	0.00	0.31	0.0%	58%
5-Apr	10.6	0.41	0.41	0.00	0.00	0.00	0.48		---	---	<0.01	<0.01	---	4,870			0.000	0.753	0.0%			0.00	0.31	0.0%	
5-Apr	10.8	0.51	0.51	---	---	---		66	---	---	<0.01	<0.01	---	5,230	11.95	5.97	0.000	0.753	0.0%	79%	94%	0.00	0.31	0.0%	58%
6-Apr	10.7	0.43	0.43	0.00	0.00	0.00	0.45		---	---	<0.01	<0.01	---	5,230			0.000	0.753	0.0%			0.00	0.31	0.0%	
6-Apr	10.8	0.48	0.48	---	---	---		67	---	---	0.01	<0.01	---	4,540	10.37	6.09	0.001	0.755	0.1%	79%	94%	0.00	0.31	0.0%	58%
9-Apr	10.4	0.38	0.38	0.00	0.00	1.80	0.45		800	---	<0.01	<0.01	---	4,540			0.000	0.755	0.0%			0.00	0.31	0.0%	
9-Apr	10.5	0.46	0.46	---	---	---		70	---	---	0.03	<0.01	---	5,090	11.63	6.22	0.004	0.758	0.4%	79%	95%	0.00	0.31	0.0%	58%
10-Apr	10.4	0.27	0.27	0.00	0.00	1.70	0.49		---	---	<0.01	<0.01	---	5,090			0.000	0.758	0.0%			0.00	0.31	0.0%	
10-Apr	10.6	0.35	0.35	---	---	---		71	---	---	0.01	0.01	---	4,920	11.24	6.34	0.001	0.760	0.1%	79%	95%	0.00	0.31	0.2%	58%
11-Apr	10.5	0.31	0.31	0.00	0.00	1.40	0.53		---	---	<0.01	<0.01	---	4,920			0.000	0.760	0.0%			0.00	0.31	0.0%	
11-Apr	10.6	0.51	0.51	---	---	---		72	---	---	0.01	<0.01	8.27	4,770	10.90	6.46	0.001	0.761	0.1%	79%	95%	0.00	0.31	0.0%	58%
12-Apr	10.6	0.40	0.40	0.00	0.00	0.00	0.54		---	---	<0.01	<0.01	---	4,770			0.000	0.761	0.0%			0.00	0.31	0.0%	
12-Apr	10.7	0.59	0.59	---	---	---		73	---	---	0.01	<0.01	---	4,670	10.67	6.58	0.001	0.762	0.1%	80%	95%	0.00	0.31	0.0%	58%
13-Apr	10.5	0.46	0.46	0.00	0.00	0.00	0.51		---	---	<0.01	<0.01	---	4,670			0.000	0.762	0.0%			0.00	0.31	0.0%	
13-Apr	10.6	0.36	0.36	---	---	---		74	---	---	0.01	<0.01	---	4,300	9.82	6.69	0.001	0.763	0.1%	80%	95%	0.00	0.31	0.0%	58%
16-Apr	10.2	0.26	0.26	0.00	0.00	2.50	0.52		1,000	---	<0.01	<0.01	---	4,300			0.000	0.763	0.0%			0.00	0.31	0.0%	
16-Apr	10.2	0.39	0.39	---	---	---		77	---	---	0.01	<0.01	---	3,970	9.07	6.79	0.001	0.764	0.1%	80%	95%	0.00	0.31	0.0%	58%
17-Apr	10.2	0.27	0.27	0.00	0.00	2.60	0.60		1,300	---	<0.01	<0.01	---	3,970			0.000	0.764	0.0%			0.00	0.31	0.0%	
17-Apr	10.5	0.30	0.30	---	---	---		78	---	---	0.02	0.01	---	5,160	11.79	6.93	0.003	0.767	0.3%	80%	96%	0.00	0.31	0.2%	58%
18-Apr	10.4	0.25	0.25	0.00	0.00	1.80	0.65		---	---	<0.01	<0.01	---	5,160			0.000	0.767	0.0%			0.00	0.31	0.0%	
18-Apr	10.6	0.46	0.46	---	---	---		79	---	---	0.01	<0.01	7.97	5,610	12.81	7.07	0.001	0.768	0.1%	80%	96%	0.00	0.31	0.0%	58%
19-Apr	10.5	0.40	0.40	0.00	0.00	0.00	0.66		---	---	<0.01	<0.01	---	5,610			0.000	0.768	0.0%			0.00	0.31	0.0%	
19-Apr	10.7	0.56	0.56	---	---	---		80	---	---	<0.01	<0.01	---	4,910	11.22	7.19	0.000	0.768	0.0%	80%	96%	0.00	0.31	0.0%	58%
20-Apr	10.6	0.44	0.44	0.00	0.00	0.00	0.62		---	---	<0.01	<0.01	---	4,910			0.000	0.768	0.0%			0.00	0.31	0.0%	
20-Apr	10.7	0.57	0.57	---	---	---		81	---	---	0.01	<0.01	---	5,230	11.95	7.33	0.001	0.770	0.1%	80%	96%	0.00	0.31	0.0%	58%
23-Apr	10.4	0.40	0.40	0.00	0.00	0.00	0.60		---	---	<0.01	<0.01	---	5,230			0.000	0.770	0.0%			0.00	0.31	0.0%	
23-Apr	10.3	0.40	0.40	---	---	---		84	---	---	<0.01	<0.01	---	4,990	11.40	7.45	0.000	0.770	0.0%	80%	96%	0.00	0.31	0.0%	58%
24-Apr	10.3	0.29	0.29	0.00	0.00	1.60	0.60		---	---	<0.01	<0.01	---	4,990			0.000	0.770	0.0%			0.00	0.31	0.0%	
24-Apr	10.5	0.38	0.38	---	---	---		85	---	---	0.01	0.01	---	4,550	10.39	7.57	0.001	0.771	0.1%	81%	96%	0.00	0.31	0.2%	58%
25-Apr	10.4	0.24	0.24	0.00	0.00	1.60	0.65		---	---	<0.01	<0.01	---	4,550			0.000	0.771	0.0%			0.00	0.31	0.0%	
25-Apr	10.5	0.36	0.36	---	---	---		86	---	---	<0.01	<0.01	8.89	4,790	10.94	7.69	0.000	0.771	0.0%	81%	96%	0.00	0.31	0.0%	58%
26-Apr	10.3	0.24	0.24	0.00	0.00	1.70	0.69		---	---	<0.01	<0.01	---	4,790			0.000	0.771	0.0%			0.00	0.31	0.0%	
26-Apr	10.5	0.47	0.47	---	---	---		87	---	---	0.01	<0.01	---	4,220	9.64	7.80	0.001	0.772	0.1%	81%	96%	0.00	0.31	0.0%	58%
27-Apr	10.4	0.35	0.35	0.00	0.00	1.10	0.71		---	---	<0.01	<0.01	---	4,220			0.000	0.772	0.0%			0.00	0.31	0.0%	
27-Apr	10.5	0.54	0.54	---	---	---		88	---	---	<0.01	<0.01	---	4,520	10.32	7.91	0.000	0.772	0.0%	81%	96%	0.00	0.31	0.0%	58%
30-Apr	10.4	0.33	0.33	0.00	0.00	2.00	0.70		800	---	<0.01	<0.01	---	4,520			0.000	0.772	0.0%			0.00	0.31	0.0%	
30-Apr	10.3	0.55	0.55	---	---	---		91	---	---	0.02	<0.01	---	4,320	9.87	8.02	0.002	0.774	0.2%	81%	97%	0.00	0.31	0.0%	58%
1-May	10.4	0.40	0.40	0.00	0.00	1.00	0.73		1,000	---	<0.01	<0.01	---	4,320			0.000	0.774	0.0%			0.00	0.31	0.0%	
1-May	10.4	0.48	0.48	---	---	---		92	---	---	<0.01	0.01	---	4,550	10.39	8.14	0.000	0.774	0.0%	81%	97%	0.00	0.31	0.2%	59%
2-May	10.3	0.40	0.40	0.00	0.00	0.00	0.73		---	---	<0.01	<0.01	---	4,550			0.000	0.774	0.0%			0.00	0.31	0.0%	
2-May	10.4	0.62	0.62	---	---	---		93	---	---	<0.01	<0.01	9.11	5,050	11.54	8.27	0.000	0.774	0.0%	81%	97%	0.00	0.31	0.0%	59%
3-May	10.4	0.42	0.42	0.00	0.00	0.00	0.70		---	---	<0.01	<0.01	---	5,050			0.000	0.774	0.0%			0.00	0.31	0.0%	
3-May	10.4	0.49	0.49	---	---	---		94	---	---	<0.01	<0.01	---	4,200	9.59	8.38	0.000	0.774	0.0%	81%	97%	0.00	0.31	0.0%	59%
4-May	10.4	0.40	0.40	0.00	0.00	0.00	0.69		---	---	<0.01	<0.01	---	4,200			0.000	0.774	0.0%			0.00	0.31	0.0%	
4-May	10.4	0.40	0.40	---	---	---		95	---	---	<0.01	<0.01	---	4,740	10.83	8.50	0.000	0.774	0.0%	81%	97%	0.00	0.31	0.0%	59%
7-May	10.3	0.23	0.23	0.00	0.00	1.80	0.70		---	---	<0.01	<0.01	---	4,740			0.000	0.774	0.0%			0.00	0.31	0.0%	
7-May	10.3	0.35	0.35	---	---	---		98	---	---	0.02	0.01	---	4,300	9.82	8.61	0.002	0.776	0.2%	81%	97%	0.00	0.32	0.2%	59%
8-May	10.2	0.30	0.30	0.00	0.00	2.30	0.75		1,000	---	<0.01	<0.01	---	4,300			0.000	0.776	0.0%			0.00	0.32	0.0%	
8-May	10.3	0.39	0.39	---	---	---		99	---	---	<0.01	<0.01	---	4,040	9.23	8.71	0.000	0.776	0.0%	81%	97%	0.00	0.32	0.0%	59%
9-May	10.2	0.39	0.39	0.00	0.00	2.20	0.79		1,300	---	<0.01	<0.01	---	4,040			0.000	0.776	0.0%			0.00	0.32	0.0%	
9-May	10.3	0.40	0.40	---	---	---		100	---	---	0.01	<0.01	9.53	4,730	10.80	8.83	0.001	0.777	0.1%	81%	97%	0.00	0.32	0.0%	59%
10-May	10.3	0.28	0.28	0.00	0.00	1.50	0.83		---	---	<0.01	<0.01	---	4,730			0.000	0.777	0.0%			0.00	0.32	0.0%	
10-May	10.4	0.54	0.54	---	---	---		101	---	---	<0.01	0.01	---	5,110	11.67	8.96	0.000	0.777	0.0%	81%	97%	0.00	0.32	0.2%	59%

Project:	Eagle Gold																								
Sample Description:	Environmental Composite																								
Test No.:	63304																								
Sample I.D.:	48158																								
Initial Ht., meters:	1.54																								
Crush Size, mm:	9.5																								
Column I.D., meters:	0.152																								

Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62
Extracted, gms Au/MT:	0.802	gms Ag/MT:	0.34
Tail Assay, gms Au/MT:	0.156	gms Ag/MT:	0.20
Calculated Head, gms Au/MT:	0.957	gms Ag/MT:	0.54
Weight of Sample, kg:	39.24		
Column Surface Area, square meters:	0.018		
Cement Addition, grams:	118.86	kg/MT:	3.03
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
11-May	10.3	0.42	0.42	0.00	0.00	0.00	0.84		---	---	<0.01	<0.01	---	5,110			0.000	0.777	0.0%			0.00	0.32	0.0%	
11-May	10.4	0.66	0.66	---	---	---		102	---	---	<0.01	0.01	---	4,430	10.12	9.07	0.000	0.777	0.0%	81%	97%	0.00	0.32	0.2%	59%
14-May	10.4	0.40	0.40	0.00	0.00	0.90	0.80		900	---	<0.01	<0.01	---	4,430			0.000	0.777	0.0%			0.00	0.32	0.0%	
14-May	10.2	0.50	0.05	---	---	---		105	---	---	<0.01	<0.01	---	5,180	11.83	9.21	0.000	0.777	0.0%	81%	97%	0.00	0.32	0.0%	59%
15-May	10.4	0.42	0.42	0.00	0.00	0.00	0.81		---	---	<0.01	<0.01	---	5,180			0.000	0.777	0.0%			0.00	0.32	0.0%	
15-May	10.4	0.48	0.48	---	---	---		106	---	---	0.02	0.01	---	4,370	9.98	9.32	0.002	0.780	0.2%	81%	97%	0.00	0.32	0.2%	60%
16-May	10.3	0.35	0.35	0.00	0.00	2.00	0.80		900	---	<0.01	0.01	---	4,370			0.000	0.780	0.0%			0.00	0.32	-0.2%	
16-May	10.3	0.33	0.33	---	---	---		107	---	---	0.02	0.02	9.07	4,670	10.67	9.44	0.002	0.782	0.2%	82%	98%	0.00	0.32	0.4%	60%
17-May	10.3	0.29	0.29	0.00	0.00	1.50	0.87		---	---	<0.01	<0.01	---	4,670			0.000	0.782	0.0%			0.00	0.32	0.0%	
17-May	10.2	0.26	0.26	---	---	---		108	---	---	<0.01	0.01	---	5,040	11.51	9.56	0.000	0.782	0.0%	82%	98%	0.00	0.32	0.2%	60%
18-May	10.2	0.26	0.26	0.00	0.00	1.70	0.91		---	---	<0.01	0.01	---	5,040			0.000	0.782	0.0%			0.00	0.32	-0.2%	
18-May	10.3	0.47	0.47	---	---	---		109	---	---	0.02	0.01	---	4,600	10.51	9.68	0.002	0.784	0.2%	82%	98%	0.00	0.32	0.2%	60%
21-May	10.3	0.30	0.30	0.00	0.00	1.40	0.93		---	---	<0.01	<0.01	---	4,600			0.000	0.784	0.0%			0.00	0.32	0.0%	
21-May	10.3	0.61	0.61	---	---	---		112	---	---	<0.01	<0.01	---	5,060	11.56	9.81	0.000	0.784	0.0%	82%	98%	0.00	0.32	0.0%	60%
22-May	10.3	0.45	0.45	0.00	0.00	0.00	0.92		---	---	<0.01	<0.01	---	5,060			0.000	0.784	0.0%			0.00	0.32	0.0%	
22-May	10.3	0.33	0.33	---	---	---		113	---	---	0.01	<0.01	---	3,750	8.57	9.91	0.001	0.785	0.1%	82%	98%	0.00	0.32	0.0%	60%
23-May	10.2	0.26	0.26	0.00	0.00	2.80	0.93		1,500	---	<0.01	<0.01	---	3,750			0.000	0.785	0.0%			0.00	0.32	0.0%	
23-May	10.3	0.46	0.46	---	---	---		114	---	---	<0.01	0.01	9.81	4,800	10.96	10.03	0.000	0.785	0.0%	82%	98%	0.00	0.32	0.2%	60%
24-May	10.3	0.33	0.33	0.00	0.00	1.30	1.00		---	---	<0.01	<0.01	---	4,800			0.000	0.785	0.0%			0.00	0.32	0.0%	
24-May	10.3	0.45	0.45	---	---	---		115	---	---	0.02	<0.01	---	5,030	11.49	10.16	0.003	0.788	0.3%	82%	98%	0.00	0.32	0.0%	60%
25-May	10.3	0.42	0.42	0.00	0.00	0.00	1.00		---	---	<0.01	<0.01	---	5,030			0.000	0.788	0.0%			0.00	0.32	0.0%	
25-May	10.3	0.59	0.59	---	---	---		116	---	---	0.01	<0.01	---	4,550	10.39	10.27	0.001	0.789	0.1%	82%	98%	0.00	0.32	0.0%	60%
29-May	10.3	0.36	0.36	0.00	0.00	1.10	0.97		---	---	0.01	<0.01	---	4,550			-0.001	0.788	-0.1%			0.00	0.32	0.0%	
29-May	10.3	0.40	0.40	---	---	---		120	---	---	0.01	<0.01	---	5,090	11.63	10.40	0.001	0.789	0.1%	82%	98%	0.00	0.32	0.0%	60%
30-May	10.1	0.28	0.28	0.00	0.00	1.60	1.00		---	---	<0.01	<0.01	---	5,090			0.000	0.789	0.0%			0.00	0.32	0.0%	
30-May	10.1	0.34	0.34	---	---	---		121	---	---	0.02	<0.01	9.88	3,710	8.47	10.50	0.002	0.791	0.2%	83%	99%	0.00	0.32	0.0%	60%
31-May	10.1	0.23	0.23	0.00	0.00	3.00	1.05		1,600	---	<0.01	<0.01	---	3,710			0.000	0.791	0.0%			0.00	0.32	0.0%	
31-May	10.2	0.35	0.35	---	---	---		122	---	---	<0.01	0.01	---	3,880	8.86	10.60	0.000	0.791	0.0%	83%	99%	0.00	0.32	0.2%	60%
1-Jun	10.1	0.29	0.29	0.00	0.00	1.20	1.13		---	---	<0.01	<0.01	---	3,880			0.000	0.791	0.0%			0.00	0.32	0.0%	
1-Jun	10.2	0.42	0.42	---	---	---		123	---	---	0.03	<0.01	---	4,810	10.99	10.72	0.004	0.795	0.4%	83%	99%	0.00	0.32	0.0%	60%
4-Jun	10.1	0.20	0.20	0.00	0.00	1.90	1.13		---	---	<0.01	<0.01	---	4,810			0.000	0.795	0.0%			0.00	0.32	0.0%	
4-Jun	10.2	0.57	0.57	---	---	---		126	---	---	<0.01	0.01	---	4,160	9.50	10.82	0.000	0.795	0.0%	83%	99%	0.00	0.33	0.2%	61%
5-Jun	10.3	0.44	0.44	0.00	0.00	1.10	1.14		1,100	---	<0.01	<0.01	---	4,160			0.000	0.795	0.0%			0.00	0.33	0.0%	
5-Jun	10.3	0.40	0.40	---	---	---		127	---	---	<0.01	0.01	---	4,490	10.26	10.94	0.000	0.795	0.0%	83%	99%	0.00	0.33	0.2%	61%
6-Jun	10.2	0.27	0.27	0.00	0.00	2.20	1.15		700	---	<0.01	<0.01	---	4,490			0.000	0.795	0.0%			0.00	0.33	0.0%	
6-Jun	10.2	0.53	0.53	---	---	---		128	---	---	<0.01	<0.01	9.19	4,560	10.42	11.05	0.000	0.795	0.0%	83%	99%	0.00	0.33	0.0%	61%
7-Jun	10.3	0.46	0.46	0.00	0.00	0.70	1.19		700	---	<0.01	<0.01	---	4,560			0.000	0.795	0.0%			0.00	0.33	0.0%	
7-Jun	10.2	0.51	0.51	---	---	---		129	---	---	0.02	0.01	---	3,490	7.97	11.14	0.002	0.797	0.2%	83%	99%	0.00	0.33	0.2%	61%
8-Jun	10.3	0.42	0.42	0.00	0.00	1.80	1.19		1,800	---	<0.01	<0.01	---	3,490			0.000	0.797	0.0%			0.00	0.33	0.0%	
8-Jun	10.2	0.52	0.52	---	---	---		130	---	---	0.03	0.01	8.32	6,110	13.96	11.30	0.005	0.801	0.5%	84%	100%	0.00	0.33	0.3%	61%
11-Jun	10.4	0.41	0.41	0.00	0.00	0.00	1.21		---	---	<0.01	<0.01	---	6,110			0.000	0.801	0.0%			0.00	0.33	0.0%	
11-Jun	10.3	0.50	0.50	---	---	---		133	---	---	0.01	<0.01	---	5,230	11.95	11.43	0.001	0.803	0.1%	84%	100%	0.00	0.33	0.0%	61%
12-Jun	10.3	0.44	0.44	0.00	0.00	0.00	1.18		---	---	<0.01	<0.01	---	5,230			0.000	0.803	0.0%			0.00	0.33	0.0%	
12-Jun	10.3	0.36	0.36	---	---	---		134	---	---	0.02	0.01	---	5,430	12.40	11.57	0.003	0.805	0.3%	84%	100%	0.00	0.33	0.3%	61%
13-Jun	10.2	0.27	0.27	0.00	0.00	0.00	1.19		---	---	<0.01	0.01	---	5,430			0.000	0.805	0.0%			0.00	0.33	-0.3%	
13-Jun	10.3	0.34	0.34	---	---	---		135	---	---	<0.01	0.01	8.52	4,920	11.24	11.70	0.000	0.805	0.0%	84%	100%	0.00	0.33	0.2%	61%
14-Jun	10.2	0.24	0.24	0.00	0.00	0.00	1.21		---	---	0.01	<0.01	---	4,920			-0.001	0.804	-0.1%			0.00	0.33	0.0%	
14-Jun	10.2	0.28	0.28	---	---	---		136	---	---	0.01	<0.01	---	5,120	11.69	11.83	0.001	0.805	0.1%	84%	100%	0.00	0.33	0.0%	61%
15-Jun	10.1	0.26	0.26	0.00	0.00	0.00	1.21		---	---	0.01	<0.01	---	5,120			-0.001	0.804	-0.1%			0.00	0.33	0.0%	
15-Jun	10.1	0.25	0.25	---	---	---		137	---	---	0.01	0.01	---	4,680	10.69	11.95	0.001	0.805	0.1%	84%	100%	0.00	0.33	0.2%	62%
18-Jun	9.7	0.15	0.15	0.00	0.00	0.00	1.21		600	---	0.01	<0.01	---	4,680			-0.001	0.804	-0.1%			0.00	0.33	0.0%	
18-Jun	10.0	0.21	0.21	---	---	---		140	---	---	0.02	0.01	---	5,110	11.67	12.08	0.003	0.807	0.3%	84%	101%	0.00	0.33	0.2%	62%
19-Jun	10.0	0.16	0.16	0.00	0.00	0.00	1.21		---	---	<0.01	0.01	---	5,110			0.000	0.807	0.0%			0.00	0.33	-0.2%	
19-Jun	10.1	0.12	0.12	---	---	---		141	---	---	<0.01	0.02	---	4,480	10.23	12.19	0.000	0.807	0.0%	84%	101%	0.00	0.33	0.4%	62%
20-Jun	10.0	0.06	0.06	0.00	0.00	0.00	1.22		800	---	0.01	0.01	---	4,480			-0.001	0.806	-0.1%			0.00	0.33	-0.2%	
20-Jun	10.0	0.08	0.08	---	---	---		142	---	---	<0.01	0.02	8.42	4,730	10.80	12.31	0.000	0.806	0.0%	84%	100%	0.00	0.33	0.4%	62%
21-Jun	9.8	0.08	0.08	0.00	0.00	0.00	1.23		---	---	<0.01	<0.01	---	4,730			0.000	0.806	0.0%			0.00	0.33	0.0%	
21-Jun	10.0	0.10	0.10	---	---	---		143	---	---	<0.01	0.01	---	4,990	11.40	12.44	0.000	0.806	0.0%	84%	100%	0.00	0.34	0.2%	63%
22-Jun	9.9	0.05	0.05	0.00	0.00	0.00	1.22		---	XC-4	0.03	<0.01	---	4,990			-0.004	0.802	-0.4%			0.00	0.34	0.0%	

Project:	Eagle Gold
Sample Description:	Environmental Composite
Test No.:	63307
Sample I.D.:	48158
Initial Ht., meters:	1.52
Crush Size, mm:	9.5
Column I.D., meters:	0.152

Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62
Extracted, gms Au/MT:	0.751	gms Ag/MT:	0.31
Tail Assay, gms Au/MT:	0.166	gms Ag/MT:	0.17
Calculated Head, gms Au/MT:	0.916	gms Ag/MT:	0.49
Weight of Sample, kg:	39.28		
Column Surface Area, square meters:	0.018		
Cement Addition, grams:	118.86	kg/MT:	3.03
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
30-Jan	---	---	---	0.00	0.00	6.85	0.00		6,851	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
30-Jan	---	---	---	---	---	---		0	---	---	---	---	---	---	0.00	0.00	0.000	0.000	0.0%	0%	0%	0.00	0.00	0.0%	0%
31-Jan	---	---	---	0.00	0.00	5.30	0.17		5,300	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
31-Jan	11.9	0.46	0.46	---	---	---		1	---	C-1	1.73	1.01	12.90	4,880	11.15	0.12	0.215	0.215	23.5%	23%	29%	0.13	0.13	25.8%	26%
1-Feb	11.4	0.33	0.33	0.00	0.00	1.30	0.25		---	---	<0.01	<0.01	---	4,880			0.000	0.215	0.0%			0.00	0.13	0.0%	
1-Feb	11.8	1.00	1.00	---	---	---		2	---	---	0.82	0.40	8.37	5,180	11.83	0.26	0.108	0.323	11.8%	35%	43%	0.05	0.18	10.8%	37%
2-Feb	11.6	0.92	0.92	0.00	0.00	0.00	0.15		---	---	<0.01	0.01	---	5,180			0.000	0.323	0.0%			0.00	0.18	-0.3%	
2-Feb	11.8	0.74	0.74	---	---	---		3	---	---	0.42	0.18	7.55	4,540	10.37	0.37	0.049	0.372	5.3%	41%	50%	0.02	0.20	4.3%	41%
3-Feb	11.8	0.73	0.73	0.00	0.00	0.80	0.11		800	---	0.01	0.02	---	4,540			-0.001	0.370	-0.1%			0.00	0.20	-0.5%	
3-Feb	11.9	0.89	0.89	---	---	---		4	---	---	0.38	0.15	---	4,740	10.83	0.49	0.046	0.416	5.0%	45%	55%	0.02	0.21	3.7%	44%
4-Feb	11.8	0.80	0.80	0.00	0.00	0.00	0.14		---	---	<0.01	0.02	---	4,740			0.000	0.416	0.0%			0.00	0.21	-0.5%	
4-Feb	11.8	0.83	0.83	---	---	---		5	---	---	0.24	0.09	---	5,080	11.60	0.62	0.031	0.447	3.4%	49%	60%	0.01	0.22	2.4%	46%
5-Feb	11.8	0.80	0.80	0.00	0.00	0.00	0.11		---	---	<0.01	0.02	---	5,080			0.000	0.447	0.0%			0.00	0.22	-0.5%	
5-Feb	11.8	0.82	0.82	---	---	---		6	---	---	0.12	0.05	---	4,800	10.96	0.74	0.015	0.462	1.6%	50%	62%	0.01	0.23	1.3%	46%
6-Feb	11.6	0.70	0.70	0.00	0.00	0.00	0.11		---	---	<0.01	0.01	---	4,800			0.000	0.462	0.0%			0.00	0.23	-0.3%	
6-Feb	11.8	0.86	0.86	---	---	---		7	---	---	0.13	0.04	---	4,880	11.15	0.87	0.016	0.478	1.8%	52%	64%	0.00	0.23	1.0%	47%
7-Feb	11.5	0.79	0.79	0.00	0.00	0.00	0.11		---	XC-1	<0.01	<0.01	---	4,880			0.000	0.478	0.0%			0.00	0.23	0.0%	
7-Feb	11.7	0.79	0.79	---	---	---		8	---	C-2	0.12	0.03	---	4,640	10.60	0.99	0.014	0.492	1.5%	54%	66%	0.00	0.23	0.7%	48%
8-Feb	11.0	0.56	0.56	0.00	0.00	0.00	0.10		---	---	<0.01	0.01	---	4,640			0.000	0.492	0.0%			0.00	0.23	-0.2%	
8-Feb	11.6	0.74	0.74	---	---	---		9	---	---	0.09	0.04	11.40	4,640	10.60	1.10	0.011	0.503	1.2%	55%	67%	0.00	0.24	1.0%	49%
9-Feb	11.2	0.63	0.63	0.00	0.00	0.00	0.11		---	---	<0.01	0.01	---	4,640			0.000	0.503	0.0%			0.00	0.24	-0.2%	
9-Feb	11.5	0.64	0.64	---	---	---		10	---	---	0.07	0.03	---	4,400	10.05	1.22	0.008	0.511	0.9%	56%	68%	0.00	0.24	0.7%	49%
10-Feb	11.4	0.58	0.58	0.00	0.00	0.00	0.10		---	---	<0.01	<0.01	---	4,400			0.000	0.511	0.0%			0.00	0.24	0.0%	
10-Feb	11.7	0.61	0.61	---	---	---		11	---	---	0.08	0.02	---	4,460	10.19	1.33	0.009	0.520	1.0%	57%	69%	0.00	0.24	0.5%	50%
13-Feb	11.0	0.43	0.43	0.00	0.00	0.80	0.10		800	---	<0.01	<0.01	---	4,460			0.000	0.520	0.0%			0.00	0.24	0.0%	
13-Feb	11.5	0.58	0.58	---	---	---		14	---	---	0.05	0.01	---	4,400	10.05	1.44	0.006	0.525	0.6%	57%	70%	0.00	0.24	0.2%	50%
14-Feb	11.1	0.45	0.45	0.00	0.00	0.90	0.12		900	---	<0.01	<0.01	---	4,400			0.000	0.525	0.0%			0.00	0.24	0.0%	
14-Feb	11.5	0.49	0.49	---	---	---		15	---	---	0.23	0.05	---	4,320	9.87	1.55	0.025	0.551	2.8%	60%	73%	0.01	0.25	1.1%	51%
15-Feb	11.3	0.48	0.48	0.00	0.00	1.00	0.14		1,000	---	<0.01	<0.01	---	4,320			0.000	0.551	0.0%			0.00	0.25	0.0%	
15-Feb	11.6	0.60	0.60	---	---	---		16	---	---	0.06	0.01	11.10	5,170	11.81	1.68	0.008	0.559	0.9%	61%	74%	0.00	0.25	0.3%	51%
16-Feb	11.2	0.47	0.47	0.00	0.00	0.00	0.14		---	---	<0.01	<0.01	---	5,170			0.000	0.559	0.0%			0.00	0.25	0.0%	
16-Feb	11.4	0.63	0.63	---	---	---		17	---	---	0.04	0.01	---	5,620	12.84	1.83	0.006	0.564	0.6%	62%	75%	0.00	0.25	0.3%	52%
17-Feb	11.3	0.52	0.52	0.00	0.00	0.00	0.10		---	---	<0.01	<0.01	---	5,620			0.000	0.564	0.0%			0.00	0.25	0.0%	
17-Feb	11.6	0.48	0.48	---	---	---		18	---	---	0.04	0.01	---	4,650	10.62	1.95	0.005	0.569	0.5%	62%	76%	0.00	0.25	0.2%	52%
21-Feb	11.3	0.33	0.33	0.00	0.00	1.30	0.10		---	XC-2	0.03	<0.01	---	4,650			-0.004	0.566	-0.4%			0.00	0.25	0.0%	
21-Feb	10.9	0.51	0.51	---	---	---		22	---	C-3	0.06	<0.01	---	5,940	13.57	2.10	0.009	0.575	1.0%	63%	77%	0.00	0.25	0.0%	52%
22-Feb	10.6	0.41	0.41	0.00	0.00	0.00	0.13		---	---	<0.01	<0.01	---	5,940			0.000	0.575	0.0%			0.00	0.25	0.0%	
22-Feb	11.3	0.43	0.43	---	---	---		23	---	---	0.12	0.03	12.00	3,950	9.02	2.20	0.012	0.587	1.3%	64%	78%	0.00	0.26	0.6%	52%
23-Feb	10.7	0.40	0.40	0.00	0.00	1.30	0.13		1,300	---	<0.01	<0.01	---	3,950			0.000	0.587	0.0%			0.00	0.26	0.0%	
23-Feb	11.3	0.54	0.54	---	---	---		24	---	---	0.06	<0.01	---	5,530	12.63	2.34	0.008	0.595	0.9%	65%	79%	0.00	0.26	0.0%	52%
24-Feb	10.7	0.53	0.53	0.00	0.00	0.00	0.15		---	---	0.02	<0.01	---	5,530			-0.003	0.592	-0.3%			0.00	0.26	0.0%	
24-Feb	11.1	0.42	0.42	---	---	---		25	---	---	0.04	<0.01	---	4,970	11.35	2.46	0.005	0.597	0.6%	65%	80%	0.00	0.26	0.0%	52%
27-Feb	10.6	0.31	0.31	0.00	0.00	1.40	0.13		---	---	<0.01	<0.01	---	4,970			0.000	0.597	0.0%			0.00	0.26	0.0%	
27-Feb	10.9	0.50	0.50	---	---	---		28	---	---	0.02	<0.01	---	5,410	12.36	2.60	0.003	0.600	0.3%	65%	80%	0.00	0.26	0.0%	52%
28-Feb	10.4	0.40	0.40	0.00	0.00	0.00	0.17		---	---	<0.01	<0.01	---	5,410			0.000	0.600	0.0%			0.00	0.26	0.0%	
28-Feb	10.9	0.33	0.33	---	---	---		29	---	---	0.05	<0.01	---	4,340	9.91	2.71	0.006	0.606	0.6%	66%	81%	0.00	0.26	0.0%	52%
29-Feb	10.5	0.26	0.26	0.00	0.00	2.50	0.17		1,000	---	<0.01	<0.01	---	4,340			0.000	0.606	0.0%			0.00	0.26	0.0%	
29-Feb	11.0	0.48	0.48	---	---	---		30	---	---	0.03	<0.01	10.00	5,150	11.76	2.84	0.004	0.610	0.4%	67%	81%	0.00	0.26	0.0%	52%
1-Mar	10.9	0.42	0.42	0.00	0.00	0.00	0.23		---	---	<0.01	<0.01	---	5,150			0.000	0.610	0.0%			0.00	0.26	0.0%	
1-Mar	11.3	0.36	0.36	---	---	---		31	---	---	0.01	0.01	---	5,180	11.83	2.98	0.001	0.611	0.1%	67%	81%	0.00	0.26	0.3%	53%
2-Mar	10.9	0.28	0.28	0.00	0.00	1.70	0.21		---	---	<0.01	<0.01	---	5,180			0.000	0.611	0.0%			0.00	0.26	0.0%	
2-Mar	11.2	0.63	0.63	---	---	---		32	---	---	0.03	0.01	---	4,890	11.17	3.10	0.004	0.615	0.4%	67%	82%	0.00	0.26	0.3%	53%
5-Mar	10.4	0.40	0.40	0.00	0.00	0.00	0.23		---	---	<0.01	<0.01	---	4,890			0.000	0.615	0.0%			0.00	0.26	0.0%	
5-Mar	10.6	0.36	0.36	---	---	---		35	---	---	0.03	0.01	---	5,170	11.81	3.23	0.004	0.619	0.4%	68%	82%	0.00	0.26	0.3%	53%
6-Mar	10.5	0.27	0.27	0.00	0.00	1.70	0.22		---	---	<0.01	<0.01	---	5,170			0.000	0.619	0.0%			0.00	0.26	0.0%	
6-Mar	10.7	0.45	0.45	---	---	---		36	---	---	0.08	0.01	---	4,330	9.89	3.34	0.009	0.627	1.0%	68%	84%	0.00	0.26	0.2%	53%
7-Mar	10.8	0.40	0.40	0.00	0.00	1.00	0.26		1,000	---	<0.01	<0.01	---	4,330			0.000	0.627	0.0%			0.00	0.26	0.0%	
7-Mar	11.2	0.40	0.40	---	---	---		37	---	---	0.03	<0.01	10.10	4,720	10.78	3.46	0.004	0.631	0.4%	69%	84%	0.00	0.26	0.0%	53%
8-Mar	10.6	0.30	0.30	0.00	0.00	1.40	0.27		---	---	<0.01	<0.01	---	4,720			0.000	0.631	0.0%			0.00	0.26	0.0%	
8-Mar	10.8	0.67	0.67	---	---	---		38	---	---	0.04	0.01	---	5,390	12.31	3.60	0.005	0.637	0.6%	69%	85%	0.00	0.26	0.3%	54%
9-Mar	10.8	0.50	0.50	0.00	0.00	0.00	0.26		---	---	<0.01	<0.01	---	5,390			0.000	0.637	0.0%			0.00	0.26	0.0%	
9-Mar	11.0	0.45	0.45	---	---	---		39	---	---	0.02	<0.01	---	4,510	10.30	3.71	0.002	0.639	0.3%	70%	85%	0.00	0.26	0.0%	54%
12-Mar	10.6	0.26	0.26	0.00	0.00	2.30	0.24		800	XC-3	<0.01	<0.01	---	4,510			0.000	0.639	0.0%			0.00	0.26	0.0%	
12-Mar	10.6	0.56	0.56	---	---	---		42	---	C-4	0.01	0.01	---	5,410	12.36	3.85	0.001	0.640	0.2%	70%	85%	0.00	0.26	0.3%	54%
13-Mar	10.6	0.44	0.44	0.00	0.00	0.00	0.29		---	---	<0.01	<0.01	---	5,410			0.000	0.640	0.0%			0.00	0.26	0.0%	
13-Mar	10.9	0.33	0.33	---	---	---		43	---	---	0.03	0.02	---	4,840	11.06	3.97	0.004	0.644	0.4%	70%	86%	0.00	0.27	0.5%	55%
14-Mar	10.6	0.28	0.28	0.00	0.00	1.60	0.28		---	---	<0.01	<0.01	---	4,840			0.000	0.644	0.0%			0.00	0.27	0.0%	
14-Mar	10.8	0.52	0.52	---	---	---		44	---	---	0.03	<0.01	8.12	5,030	11.49	4.10	0.004	0.648	0.4%	71%	86%	0.00	0.27	0.0%	55%
15-Mar	10.4	0.43	0.43	0.00	0.00	0.00	0.32		---	---	<0.01	<0.01	---	5,030			0.000	0.648	0.0%			0.00	0.27	0.0%	
15-Mar	10.8	0.38	0.38	---	---	---		45	---	---	0.02	0.01	---	4,680	10.69	4.22	0.002	0.650	0.3%	71%	87%	0.00	0.27	0.2%	55%
16-Mar	10.4	0.23	0.23	0.00	0.00	1.70	0.31		---	---	<0.01	<0.01	---	4,680			0.000	0.650	0.0%			0.00	0.27	0.0%	
16-Mar	10.7	0.51	0.51	---	---	---		46	---	---	<0.01	<0.01	---	4,970	11.35	4.35	0.000	0.650	0.0%	71%	87%	0.00	0.27	0.0%	55%
19-Mar	10.5	0.40	0.40	0.00	0.00	0.00	0.34		---	---	<0.01	<0.01	---	4,970			0.000	0.650	0.0%			0.00	0.27	0.0%	
19-Mar	10.3	0.34	0.34	---	---	---		49	---	---	0.02	0.01	---	4,550	10.39	4.46	0.002	0.652	0.3%	71%	87%	0.00	0.27	0.2%	55%
20-Mar	10.4	0.29	0.29	0.00	0.00	1.40	0.33		---	---	<0.01	<0.01	---	4,550			0.000	0.652	0.0%			0.00	0.27	0.0%	

Project:	Eagle Gold
Sample Description:	Environmental Composite
Test No.:	63307
Sample I.D.:	48158
Initial Ht., meters:	1.52
Crush Size, mm:	9.5
Column I.D., meters:	0.152

Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62
Extracted, gms Au/MT:	0.751	gms Ag/MT:	0.31
Tail Assay, gms Au/MT:	0.166	gms Ag/MT:	0.17
Calculated Head, gms Au/MT:	0.916	gms Ag/MT:	0.49
Weight of Sample, kg:	39.28		
Column Surface Area, square meters:	0.018		
Cement Addition, grams:	118.86	kg/MT:	3.03
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
20-Mar	10.3	0.55	0.55	---	---	---		50	---	---	0.04	0.01	---	4,190	9.57	4.57	0.004	0.657	0.5%	72%	87%	0.00	0.27	0.2%	55%
21-Mar	10.6	0.51	0.51	0.00	0.00	1.10	0.35		1,100	---	<0.01	<0.01	---	4,190			0.000	0.657	0.0%			0.00	0.27	0.0%	
21-Mar	10.8	0.38	0.38	---	---	---		51	---	---	0.03	0.01	9.41	4,140	9.46	4.68	0.003	0.660	0.3%	72%	88%	0.00	0.27	0.2%	55%
22-Mar	10.6	0.32	0.32	0.00	0.00	1.20	0.37		1,200	---	<0.01	<0.01	---	4,140			0.000	0.660	0.0%			0.00	0.27	0.0%	
22-Mar	10.9	0.47	0.47	---	---	---		52	---	---	0.01	<0.01	---	5,100	11.65	4.81	0.001	0.661	0.1%	72%	88%	0.00	0.27	0.0%	55%
23-Mar	10.7	0.33	0.33	0.00	0.00	1.40	0.40		---	---	<0.01	<0.01	---	5,100			0.000	0.661	0.0%			0.00	0.27	0.0%	
23-Mar	11.0	0.48	0.48	---	---	---		53	---	---	0.03	<0.01	---	5,070	11.58	4.94	0.004	0.665	0.4%	73%	89%	0.00	0.27	0.0%	55%
26-Mar	10.4	0.34	0.34	0.00	0.00	1.30	0.40		---	---	<0.01	<0.01	---	5,070			0.000	0.665	0.0%			0.00	0.27	0.0%	
26-Mar	10.4	0.46	0.46	---	---	---		56	---	---	0.02	<0.01	---	4,970	11.35	5.06	0.003	0.668	0.3%	73%	89%	0.00	0.27	0.0%	55%
27-Mar	10.4	0.35	0.35	0.00	0.00	1.20	0.42		---	---	<0.01	<0.01	---	4,970			0.000	0.668	0.0%			0.00	0.27	0.0%	
27-Mar	10.7	0.46	0.46	---	---	---		57	---	---	0.04	0.01	---	4,420	10.10	5.17	0.005	0.672	0.5%	73%	90%	0.00	0.27	0.2%	56%
28-Mar	10.3	0.30	0.30	0.00	0.00	2.20	0.44		900	---	<0.01	<0.01	---	4,420			0.000	0.672	0.0%			0.00	0.27	0.0%	
28-Mar	10.7	0.59	0.59	---	---	---		58	---	---	0.01	0.01	9.28	4,230	9.66	5.28	0.001	0.673	0.1%	73%	90%	0.00	0.27	0.2%	56%
29-Mar	10.6	0.46	0.46	0.00	0.00	1.10	0.48		1,100	---	<0.01	<0.01	---	4,230			0.000	0.673	0.0%			0.00	0.27	0.0%	
29-Mar	10.8	0.54	0.54	---	---	---		59	---	---	0.01	0.01	---	5,070	11.58	5.41	0.001	0.674	0.1%	74%	90%	0.00	0.27	0.3%	56%
30-Mar	10.6	0.45	0.45	0.00	0.00	0.00	0.47		---	---	<0.01	<0.01	---	5,070			0.000	0.674	0.0%			0.00	0.27	0.0%	
30-Mar	10.7	0.69	0.69	---	---	---		60	---	---	0.01	<0.01	---	5,040	11.51	5.54	0.001	0.676	0.1%	74%	90%	0.00	0.27	0.0%	56%
2-Apr	10.5	0.45	0.45	0.00	0.00	0.00	0.43		---	---	<0.01	<0.01	---	5,040			0.000	0.676	0.0%			0.00	0.27	0.0%	
2-Apr	10.5	0.51	0.51	---	---	---		63	---	---	0.01	0.01	---	5,170	11.81	5.67	0.001	0.677	0.1%	74%	90%	0.00	0.27	0.3%	56%
3-Apr	10.5	0.41	0.41	0.00	0.00	0.00	0.42		---	---	<0.01	<0.01	---	5,170			0.000	0.677	0.0%			0.00	0.27	0.0%	
3-Apr	10.7	0.40	0.40	---	---	---		64	---	---	0.01	0.01	---	4,490	10.26	5.79	0.001	0.678	0.1%	74%	90%	0.00	0.28	0.2%	57%
4-Apr	10.5	0.33	0.33	0.00	0.00	2.00	0.43		800	---	<0.01	<0.01	---	4,490			0.000	0.678	0.0%			0.00	0.28	0.0%	
4-Apr	10.8	0.42	0.42	---	---	---		65	---	---	<0.01	<0.01	8.93	4,740	10.83	5.91	0.000	0.678	0.0%	74%	90%	0.00	0.28	0.0%	57%
5-Apr	10.5	0.32	0.32	0.00	0.00	1.30	0.49		---	---	<0.01	<0.01	---	4,740			0.000	0.678	0.0%			0.00	0.28	0.0%	
5-Apr	10.8	0.40	0.40	---	---	---		66	---	---	<0.01	0.01	---	4,860	11.10	6.03	0.000	0.678	0.0%	74%	90%	0.00	0.28	0.3%	57%
6-Apr	10.5	0.27	0.27	0.00	0.00	1.60	0.51		---	---	<0.01	<0.01	---	4,860			0.000	0.678	0.0%			0.00	0.28	0.0%	
6-Apr	10.8	0.53	0.53	---	---	---		67	---	---	<0.01	0.01	---	4,800	10.96	6.15	0.000	0.678	0.0%	74%	90%	0.00	0.28	0.3%	57%
9-Apr	10.5	0.46	0.46	0.00	0.00	0.00	0.52		---	---	<0.01	<0.01	---	4,800			0.000	0.678	0.0%			0.00	0.28	0.0%	
9-Apr	10.4	0.53	0.53	---	---	---		70	---	---	0.01	<0.01	---	4,220	9.64	6.26	0.001	0.679	0.1%	74%	90%	0.00	0.28	0.0%	57%
10-Apr	10.4	0.34	0.34	0.00	0.00	2.20	0.50		1,100	---	<0.01	<0.01	---	4,220			0.000	0.679	0.0%			0.00	0.28	0.0%	
10-Apr	10.6	0.52	0.52	---	---	---		71	---	---	0.04	0.01	---	4,560	10.42	6.38	0.005	0.684	0.5%	75%	91%	0.00	0.28	0.2%	57%
11-Apr	10.5	0.40	0.40	0.00	0.00	0.00	0.55		---	---	<0.01	<0.01	---	4,560			0.000	0.684	0.0%			0.00	0.28	0.0%	
11-Apr	10.6	0.42	0.42	---	---	---		72	---	---	0.01	<0.01	8.71	4,760	10.87	6.50	0.001	0.685	0.1%	75%	91%	0.00	0.28	0.0%	57%
12-Apr	10.6	0.40	0.40	0.00	0.00	0.00	0.53		---	---	<0.01	<0.01	---	4,760			0.000	0.685	0.0%			0.00	0.28	0.0%	
12-Apr	10.7	0.49	0.49	---	---	---		73	---	---	0.03	<0.01	---	4,700	10.74	6.62	0.004	0.689	0.4%	75%	92%	0.00	0.28	0.0%	57%
13-Apr	10.4	0.40	0.40	0.00	0.00	0.00	0.52		---	---	<0.01	<0.01	---	4,700			0.000	0.689	0.0%			0.00	0.28	0.0%	
13-Apr	10.5	0.42	0.42	---	---	---		74	---	---	0.02	<0.01	---	4,120	9.41	6.72	0.002	0.691	0.2%	75%	92%	0.00	0.28	0.0%	57%
16-Apr	10.2	0.26	0.26	0.00	0.00	2.60	0.52		1,200	---	<0.01	<0.01	---	4,120			0.000	0.691	0.0%			0.00	0.28	0.0%	
16-Apr	10.2	0.35	0.35	---	---	---		77	---	---	0.02	<0.01	---	4,210	9.62	6.83	0.002	0.693	0.2%	76%	92%	0.00	0.28	0.0%	57%
17-Apr	10.2	0.23	0.23	0.00	0.00	2.70	0.60		1,100	---	<0.01	<0.01	---	4,210			0.000	0.693	0.0%			0.00	0.28	0.0%	
17-Apr	10.4	0.27	0.27	---	---	---		78	---	---	0.01	<0.01	---	5,370	12.27	6.97	0.001	0.694	0.1%	76%	92%	0.00	0.28	0.0%	57%
18-Apr	10.3	0.18	0.18	0.00	0.00	2.30	0.66		---	---	<0.01	<0.01	---	5,370			0.000	0.694	0.0%			0.00	0.28	0.0%	
18-Apr	10.6	0.47	0.47	---	---	---		79	---	---	<0.01	<0.01	8.64	5,370	12.27	7.10	0.000	0.694	0.0%	76%	92%	0.00	0.28	0.0%	57%
19-Apr	10.5	0.35	0.25	0.00	0.00	1.30	0.68		---	---	<0.01	<0.01	---	5,370			0.000	0.694	0.0%			0.00	0.28	0.0%	
19-Apr	10.5	0.26	0.26	---	---	---		80	---	---	<0.01	<0.01	---	4,740	10.83	7.22	0.000	0.694	0.0%	76%	92%	0.00	0.28	0.0%	57%
20-Apr	10.5	0.22	0.22	0.00	0.00	1.80	0.70		---	---	<0.01	<0.01	---	4,740			0.000	0.694	0.0%			0.00	0.28	0.0%	
20-Apr	10.6	0.51	0.51	---	---	---		81	---	---	<0.01	<0.01	---	5,260	12.01	7.36	0.000	0.694	0.0%	76%	92%	0.00	0.28	0.0%	57%
23-Apr	10.3	0.28	0.28	0.00	0.00	1.70	0.73		---	---	<0.01	<0.01	---	5,260			0.000	0.694	0.0%			0.00	0.28	0.0%	
23-Apr	10.3	0.42	0.42	---	---	---		84	---	---	<0.01	<0.01	---	4,730	10.80	7.48	0.000	0.694	0.0%	76%	92%	0.00	0.28	0.0%	57%
24-Apr	10.4	0.30	0.30	0.00	0.00	1.40	0.75		---	---	<0.01	<0.01	---	4,730			0.000	0.694	0.0%			0.00	0.28	0.0%	
24-Apr	10.4	0.39	0.39	---	---	---		85	---	---	0.01	0.01	---	4,060	9.27	7.58	0.001	0.695	0.1%	76%	93%	0.00	0.28	0.2%	58%
25-Apr	10.4	0.27	0.27	0.00	0.00	2.50	0.78		1,200	---	<0.01	<0.01	---	4,060			0.000	0.695	0.0%			0.00	0.28	0.0%	
25-Apr	10.5	0.65	0.65	---	---	---		86	---	---	0.03	<0.01	9.60	4,980	11.38	7.71	0.004	0.699	0.4%	76%	93%	0.00	0.28	0.0%	58%
26-Apr	10.5	0.51	0.51	0.00	0.00	0.00	0.80		---	---	<0.01	<0.01	---	4,980			0.000	0.699	0.0%			0.00	0.28	0.0%	
26-Apr	10.4	0.47	0.47	---	---	---		87	---	---	0.01	<0.01	---	4,590	10.48	7.82	0.001	0.700	0.1%	76%	93%	0.00	0.28	0.0%	58%
27-Apr	10.4	0.33	0.33	0.00	0.00	1.20	0.77		---	---	<0.01	<0.01	---	4,590			0.000	0.700	0.0%			0.00	0.28	0.0%	
27-Apr	10.5	0.62	0.62	---	---	---		88	---	---	0.02	<0.01	---	4,960	11.33	7.95	0.003	0.703	0.3%	77%	94%	0.00	0.28	0.0%	58%
30-Apr	10.3	0.40	0.40	0.00	0.00	0.00	0.78		---	---	<0.01	<0.01	---	4,960			0.000	0.703	0.0%			0.00	0.28	0.0%	
30-Apr	10.2	0.45	0.45	---	---	---		91	---	---	<0.01	<0.01	---	4,690	10.71	8.07	0.000	0.703	0.0%	77%	94%	0.00	0.28	0.0%	58%
1-May	10.4	0.33	0.33	0.00	0.00	1.30	0.77		---	---	<0.01	<0.01	---	4,690			0.000	0.703	0.0%			0.00	0.28	0.0%	
1-May	10.4	0.41	0.41	---	---	---		92	---	---	0.01	0.01	---	4,210	9.62	8.18	0.001	0.704	0.1%	77%	94%	0.00	0.28	0.2%	58%
2-May	10.2	0.28	0.28	0.00	0.00	2.50	0.81		1,100	---	<0.01	<0.01	---	4,210			0.000	0.704	0.0%			0.00	0.28	0.0%	
2-May	10.3	0.36	0.36	---	---	---		93	---	---	0.01	<0.01	9.71	4,370	9.98	8.29	0.001	0.705	0.1%	77%	94%	0.00	0.28	0.0%	58%
3-May	10.2	0.23	0.23	0.00	0.00	2.50	0.87		900	---	<0.01	<0.01	---	4,370			0.000	0.705	0.0%			0.00	0.28	0.0%	
3-May	10.3	0.50	0.50	---	---	---		94	---	---	<0.01	<0.01	---	4,940	11.28	8.41	0.000	0.705	0.0%	77%	94%	0.00	0.28	0.0%	58%
4-May	10.4	0.42	0.42	0.00	0.00	0.00	0.90		---	---	<0.01	<0.01	---	4,940			0.000	0.705	0.0%			0.00	0.28	0.0%	
4-May	10.4	0.58	0.58	---	---	---		95	---	---	0.01	<0.01	---	4,970	11.35	8.54	0.001	0.706	0.1%	77%	94%	0.00	0.28	0.0%	58%
7-May	10.4	0.40	0.40	0.00	0.00	0.00	0.85		---	---	<0.01	<0.01	---	4,970			0.000	0.706	0.0%			0.00	0.28	0.0%	
7-May	10.3	0.60	0.60	---	---	---		98	---	---	<0.01	0.01	---	4,900	11.19	8.66	0.000	0.706	0.0%	77%	94%	0.00	0.28	0.3%	58%
8-May	10.4	0.43	0.43	0.00	0.00	0.00	0.83		---	---	<0.01	<0.01	---	4,900			0.000	0.706	0.0%			0.00	0.28	0.0%	
8-May	10.3	0.40	0.40	---	---	---		99	---	---	0.01	<0.01	---	4,300	9.82	8.77	0.001	0.707	0.1%	77%	94%	0.00	0.28	0.0%	58%
9-May	10.2	0.33	0.33	0.00	0.00	2.20	0.83		1,000	---	<0.01	<0.01	---	4,300			0.000	0.707	0.0%			0.00	0.28	0.0%	
9-May	10.2	0.42	0.42	---	---	---		100	---	---	0.02	<0.01	9.08	4,590	10.48	8.89	0.002	0.710	0.3%	77%	95%	0.00	0.28	0.0%	58%
10-May	10.2	0.27	0.27	0.00	0.00	1.50	0.89		---	---	<0.01	<0.01	---	4,590			0.000	0.710	0.0%			0.00	0.28	0.0%	
10-May	10.3	0.45	0.45	---	---	---		101	---	---	0.02	<0.01	---	4,890	11.17	9.02	0.002	0.712	0.3%	78%	95%	0.00	0.28	0.0%	58%

Project:	Eagle Gold																								
Sample Description:	Environmental Composite																								
Test No.:	63307																								
Sample I.D.:	48158																								
Initial Ht., meters:	1.52																								
Crush Size, mm:	9.5																								
Column I.D., meters:	0.152																								

Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62
Extracted, gms Au/MT:	0.751	gms Ag/MT:	0.31
Tail Assay, gms Au/MT:	0.166	gms Ag/MT:	0.17
Calculated Head, gms Au/MT:	0.916	gms Ag/MT:	0.49
Weight of Sample, kg:	39.28		
Column Surface Area, square meters:	0.018		
Cement Addition, grams:	118.86	kg/MT:	3.03
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
11-May	10.2	0.40	0.40	0.00	0.00	0.00	0.91		---	---	<0.01	<0.01	---	4,890			0.000	0.712	0.0%			0.00	0.28	0.0%	
11-May	10.3	0.46	0.46	---	---	---		102	---	---	0.02	<0.01	---	4,420	10.10	9.13	0.002	0.714	0.2%	78%	95%	0.00	0.28	0.0%	58%
14-May	10.3	0.27	0.27	0.00	0.00	2.40	0.89		900	---	<0.01	<0.01	---	4,420			0.000	0.714	0.0%			0.00	0.28	0.0%	
14-May	10.1	0.38	0.38	---	---	---		105	---	---	0.01	<0.01	---	4,550	10.39	9.24	0.001	0.716	0.1%	78%	95%	0.00	0.28	0.0%	58%
15-May	10.2	0.29	0.29	0.00	0.00	1.40	0.96		---	---	<0.01	<0.01	---	4,550			0.000	0.716	0.0%			0.00	0.28	0.0%	
15-May	10.3	0.36	0.36	---	---	---		106	---	---	0.02	0.01	---	4,690	10.71	9.36	0.002	0.718	0.3%	78%	96%	0.00	0.28	0.2%	58%
16-May	10.2	0.28	0.28	0.00	0.00	1.50	0.98		---	---	<0.01	<0.01	---	4,690			0.000	0.718	0.0%			0.00	0.28	0.0%	
16-May	10.3	0.74	0.74	---	---	---		107	---	---	0.02	0.01	9.05	3,850	8.79	9.46	0.002	0.720	0.2%	79%	96%	0.00	0.28	0.2%	59%
17-May	10.2	0.37	0.37	0.00	0.00	2.30	0.98		1,400	---	0.01	0.01	---	3,850			-0.001	0.719	-0.1%			0.00	0.28	-0.2%	
17-May	10.2	0.43	0.43	---	---	---		108	---	---	0.03	0.09	---	4,660	10.64	9.58	0.004	0.723	0.4%	79%	96%	0.01	0.29	2.2%	61%
18-May	10.2	0.35	0.35	0.00	0.00	1.20	1.02		---	---	0.01	<0.01	---	4,660			-0.001	0.721	-0.1%			0.00	0.29	0.0%	
18-May	10.2	0.43	0.43	---	---	---		109	---	---	0.01	0.02	---	4,890	11.17	9.70	0.001	0.723	0.1%	79%	96%	0.00	0.30	0.5%	61%
21-May	10.3	0.32	0.32	0.00	0.00	1.40	1.03		---	---	<0.01	<0.01	---	4,890			0.000	0.723	0.0%			0.00	0.30	0.0%	
21-May	10.2	0.57	0.57	---	---	---		112	---	---	0.01	<0.01	---	4,560	10.42	9.82	0.001	0.724	0.1%	79%	96%	0.00	0.30	0.0%	61%
22-May	10.3	0.42	0.42	0.00	0.00	0.00	1.04		---	---	<0.01	<0.01	---	4,560			0.000	0.724	0.0%			0.00	0.30	0.0%	
22-May	10.2	0.47	0.47	---	---	---		113	---	---	0.02	0.01	---	4,230	9.66	9.93	0.002	0.726	0.2%	79%	97%	0.00	0.30	0.2%	61%
23-May	10.2	0.32	0.32	0.00	0.00	2.20	1.03		1,000	---	<0.01	<0.01	---	4,230			0.000	0.726	0.0%			0.00	0.30	0.0%	
23-May	10.2	0.51	0.51	---	---	---		114	---	---	0.02	0.01	9.85	4,280	9.78	10.04	0.002	0.728	0.2%	79%	97%	0.00	0.30	0.2%	61%
24-May	10.4	0.40	0.40	0.00	0.00	1.00	1.08		1,000	---	<0.01	<0.01	---	4,280			0.000	0.728	0.0%			0.00	0.30	0.0%	
24-May	10.3	0.36	0.36	---	---	---		115	---	---	0.01	<0.01	---	4,870	11.12	10.16	0.001	0.729	0.1%	80%	97%	0.00	0.30	0.0%	61%
25-May	10.2	0.27	0.27	0.00	0.00	1.60	1.09		---	---	<0.01	<0.01	---	4,870			0.000	0.729	0.0%			0.00	0.30	0.0%	
25-May	10.2	0.59	0.59	---	---	---		116	---	---	0.01	<0.01	---	4,230	9.66	10.27	0.001	0.730	0.1%	80%	97%	0.00	0.30	0.0%	61%
29-May	10.2	0.25	0.25	0.00	0.00	2.60	1.11		1,100	---	0.01	<0.01	---	4,230			-0.001	0.729	-0.1%			0.00	0.30	0.0%	
29-May	10.2	0.42	0.42	---	---	---		120	---	---	0.01	<0.01	---	5,060	11.56	10.40	0.001	0.731	0.1%	80%	97%	0.00	0.30	0.0%	61%
30-May	10.1	0.31	0.31	0.00	0.00	1.50	1.16		---	---	<0.01	<0.01	---	5,060			0.000	0.731	0.0%			0.00	0.30	0.0%	
30-May	10.1	0.39	0.39	---	---	---		121	---	---	0.02	<0.01	9.40	4,900	11.19	10.52	0.002	0.733	0.3%	80%	98%	0.00	0.30	0.0%	61%
31-May	10.1	0.27	0.27	0.00	0.00	1.60	1.18		---	---	<0.01	<0.01	---	4,900			0.000	0.733	0.0%			0.00	0.30	0.0%	
31-May	10.2	0.58	0.58	---	---	---		122	---	---	0.01	0.01	---	4,160	9.50	10.63	0.001	0.734	0.1%	80%	98%	0.00	0.30	0.2%	62%
1-Jun	10.3	0.42	0.42	0.00	0.00	0.00	1.19		---	---	<0.01	<0.01	---	4,160			0.000	0.734	0.0%			0.00	0.30	0.0%	
1-Jun	10.2	0.58	0.58	---	---	---		123	---	---	0.04	0.01	---	5,100	11.65	10.76	0.005	0.739	0.6%	81%	98%	0.00	0.30	0.3%	62%
4-Jun	10.4	0.40	0.40	0.00	0.00	0.00	1.15		---	---	<0.01	<0.01	---	5,100			0.000	0.739	0.0%			0.00	0.30	0.0%	
4-Jun	10.1	0.44	0.44	---	---	---		126	---	---	0.02	0.01	---	4,420	10.10	10.87	0.002	0.742	0.2%	81%	99%	0.00	0.30	0.2%	62%
5-Jun	10.2	0.25	0.25	0.00	0.00	2.50	1.15		900	---	<0.01	<0.01	---	4,420			0.000	0.742	0.0%			0.00	0.30	0.0%	
5-Jun	10.2	0.32	0.32	---	---	---		127	---	---	<0.01	<0.01	---	4,690	10.71	10.99	0.000	0.742	0.0%	81%	99%	0.00	0.30	0.0%	62%
6-Jun	10.2	0.26	0.26	0.00	0.00	2.20	1.22		600	---	<0.01	<0.01	---	4,690			0.000	0.742	0.0%			0.00	0.30	0.0%	
6-Jun	10.1	0.28	0.28	---	---	---		128	---	---	0.01	<0.01	9.43	4,860	11.10	11.11	0.001	0.743	0.1%	81%	99%	0.00	0.30	0.0%	62%
7-Jun	10.2	0.25	0.25	0.00	0.00	1.70	1.27		---	---	<0.01	<0.01	---	4,860			0.000	0.743	0.0%			0.00	0.30	0.0%	
7-Jun	10.2	0.46	0.46	---	---	---		129	---	---	0.02	0.01	---	4,440	10.14	11.23	0.002	0.745	0.2%	81%	99%	0.00	0.30	0.2%	62%
8-Jun	10.4	0.45	0.45	0.00	0.00	0.00	1.29		---	---	0.01	<0.01	---	4,440			-0.001	0.744	-0.1%			0.00	0.30	0.0%	
8-Jun	10.2	0.54	0.54	---	---	---		130	---	---	0.02	0.01	8.72	4,760	10.87	11.35	0.002	0.746	0.3%	81%	99%	0.00	0.31	0.2%	63%
11-Jun	10.4	0.38	0.38	0.00	0.00	0.00	1.26		500	---	<0.01	<0.01	---	4,760			0.000	0.746	0.0%			0.00	0.31	0.0%	
11-Jun	10.2	0.46	0.46	---	---	---		133	---	---	<0.01	<0.01	---	4,440	10.14	11.46	0.000	0.746	0.0%	81%	99%	0.00	0.31	0.0%	63%
12-Jun	10.2	0.38	0.38	0.00	0.00	0.00	1.26		900	---	0.02	<0.01	---	4,440			-0.002	0.744	-0.2%			0.00	0.31	0.0%	
12-Jun	10.3	0.38	0.38	---	---	---		134	---	---	0.05	0.02	---	4,180	9.55	11.57	0.005	0.750	0.6%	82%	100%	0.00	0.31	0.4%	63%
13-Jun	10.3	0.28	0.28	0.00	0.00	0.00	1.26		1,100	---	<0.01	<0.01	---	4,180			0.000	0.750	0.0%			0.00	0.31	0.0%	
13-Jun	10.2	0.28	0.28	---	---	---		135	---	---	<0.01	0.01	8.69	5,440	12.43	11.71	0.000	0.750	0.0%	82%	100%	0.00	0.31	0.3%	63%
14-Jun	10.1	0.21	0.21	0.00	0.00	0.00	1.27		---	---	<0.01	<0.01	---	5,440			0.000	0.750	0.0%			0.00	0.31	0.0%	
14-Jun	10.1	0.27	0.27	---	---	---		136	---	---	0.02	<0.01	---	4,900	11.19	11.83	0.002	0.752	0.3%	82%	100%	0.00	0.31	0.0%	63%
15-Jun	10.0	0.16	0.16	0.00	0.00	0.00	1.26		---	---	0.01	<0.01	---	4,900			-0.001	0.751	-0.1%			0.00	0.31	0.0%	
15-Jun	10.0	0.21	0.21	---	---	---		137	---	---	0.01	<0.01	---	5,140	11.74	11.96	0.001	0.752	0.1%	82%	100%	0.00	0.31	0.0%	63%
18-Jun	9.9	0.18	0.18	0.00	0.00	0.00	1.26		---	---	<0.01	0.01	---	5,140			0.000	0.752	0.0%			0.00	0.31	-0.3%	
18-Jun	10.0	0.19	0.19	---	---	---		140	---	---	<0.01	0.01	---	4,880	11.15	12.09	0.000	0.752	0.0%	82%	100%	0.00	0.31	0.3%	63%
19-Jun	10.0	0.12	0.12	0.00	0.00	0.00	1.26		---	---	0.01	0.01	---	4,880			-0.001	0.751	-0.1%			0.00	0.31	-0.3%	
19-Jun	10.1	0.12	0.12	---	---	---		141	---	---	0.01	0.02	---	4,420	10.10	12.20	0.001	0.752	0.1%	82%	100%	0.00	0.31	0.5%	64%
20-Jun	10.0	0.08	0.08	0.00	0.00	0.00	1.27		900	---	<0.01	0.01	---	4,420			0.000	0.752	0.0%			0.00	0.31	-0.2%	
20-Jun	10.0	0.08	0.08	---	---	---		142	---	---	<0.01	0.02	8.87	4,520	10.32	12.31	0.000	0.752	0.0%	82%	100%	0.00	0.31	0.5%	64%
21-Jun	9.9	0.09	0.09	0.00	0.00	0.00	1.27		---	---	<0.01	<0.01	---	4,520			0.000	0.752	0.0%			0.00	0.31	0.0%	
21-Jun	10.0	0.08	0.08	---	---	---		143	---	---	<0.01	0.01	---	4,920	11.24	12.44	0.000	0.752	0.0%	82%	100%	0.00	0.31	0.3%	64%
22-Jun	9.9	0.07	0.07	0.00	0.00	0.00	1.27		---	XC-4	0.01	<0.01	---	4,920			-0.001	0.751	-0.1%			0.00	0.31	0.0%	

Project:	Eagle Gold																	Head Screen, gms Au/MT:	1.077		gms Ag/MT:	0.56		
Sample Description:	Environmental Composite																	Head Assay, gms Au/MT:	1.041		gms Ag/MT:	0.62		
Test No.:	63310																	Extracted, gms Au/MT:	0.905		gms Ag/MT:	0.43		
Sample I.D.:	48158																	Tail Assay, gms Au/MT:	0.164		gms Ag/MT:	0.18		
Initial Ht., meters:	1.56																	Calculated Head, gms Au/MT:	1.069		gms Ag/MT:	0.61		
Crush Size, mm:	9.5																	Weight of Sample, kg:	39.24					
Column I.D., meters:	0.152																	Column Surface Area, square meters:	0.018					
																		Cement Addition, grams:	118.86		kg/MT:	3.03		
																		Hydrated Lime Addition, grams:	0.00		kg/MT:	0.00		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
30-Jan	---	---	---	0.00	0.00	6.88	0.00		6,875	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
30-Jan	---	---	---	---	---	---		0	---	---	---	---	---	---	0.00	0.00	0.000	0.000	0.0%	0%	0%	0.00	0.00	0.0%	0%
31-Jan	---	---	---	0.00	0.00	5.30	0.18		5,300	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
31-Jan	11.8	0.88	0.88	---	---	---		1	---	C-1	2.31	1.39	17.30	4,560	10.42	0.12	0.268	0.268	25.1%	25%	30%	0.16	0.16	26.6%	27%
1-Feb	11.0	0.62	0.62	0.00	0.00	0.00	0.21		---	---	<0.01	<0.01	---	4,560			0.000	0.268	0.0%			0.00	0.16	0.0%	
1-Feb	11.8	0.55	0.55	---	---	---		2	---	---	0.90	0.38	10.60	5,120	11.69	0.25	0.117	0.386	11.0%	36%	43%	0.05	0.21	8.2%	35%
2-Feb	11.6	0.50	0.50	0.00	0.00	0.00	0.13		---	---	<0.01	0.01	---	5,120			0.000	0.386	0.0%			0.00	0.21	-0.2%	
2-Feb	11.5	1.00	1.00	---	---	---		3	---	---	0.55	0.18	6.32	4,220	9.64	0.35	0.059	0.445	5.5%	42%	49%	0.02	0.23	3.2%	38%
3-Feb	11.5	0.99	0.99	0.00	0.00	1.10	0.10		1,100	---	0.01	0.01	---	4,220			-0.001	0.444	-0.1%			0.00	0.23	-0.2%	
3-Feb	11.9	0.88	0.88	---	---	---		4	---	---	0.49	0.14	---	4,340	9.91	0.46	0.054	0.498	5.1%	47%	55%	0.02	0.24	2.6%	40%
4-Feb	11.6	0.80	0.80	0.00	0.00	1.00	0.09		1,000	---	<0.01	0.01	---	4,340			0.000	0.498	0.0%			0.00	0.24	-0.2%	
4-Feb	11.8	0.93	0.93	---	---	---		5	---	---	0.22	0.06	---	5,700	13.02	0.61	0.032	0.530	3.0%	50%	59%	0.01	0.25	1.4%	41%
5-Feb	11.6	0.61	0.61	0.00	0.00	0.00	0.09		---	---	<0.01	0.01	---	5,700			0.000	0.530	0.0%			0.00	0.25	-0.2%	
5-Feb	11.8	0.75	0.75	---	---	---		6	---	---	0.14	0.05	---	5,240	11.97	0.74	0.019	0.549	1.7%	51%	61%	0.01	0.26	1.1%	42%
6-Feb	11.6	0.70	0.70	0.00	0.00	0.00	0.07		---	---	<0.01	<0.01	---	5,240			0.000	0.549	0.0%			0.00	0.26	0.0%	
6-Feb	11.7	0.74	0.74	---	---	---		7	---	---	0.15	0.04	---	5,480	12.52	0.88	0.021	0.570	2.0%	53%	63%	0.01	0.26	0.9%	43%
7-Feb	11.5	0.62	0.62	0.00	0.00	0.00	0.06		---	XC-1	<0.01	<0.01	---	5,480			0.000	0.570	0.0%			0.00	0.26	0.0%	
7-Feb	11.7	0.70	0.70	---	---	---		8	---	C-2	0.12	0.02	---	5,040	11.51	1.01	0.015	0.585	1.4%	55%	65%	0.00	0.26	0.4%	44%
8-Feb	11.1	0.42	0.42	0.00	0.00	0.00	0.06		---	---	<0.01	0.02	---	5,040			0.000	0.585	0.0%			0.00	0.26	-0.4%	
8-Feb	11.7	0.62	0.62	---	---	---		9	---	---	0.10	0.04	11.70	5,180	11.83	1.14	0.013	0.598	1.2%	56%	66%	0.01	0.27	0.9%	44%
9-Feb	11.1	0.61	0.61	0.00	0.00	0.00	0.07		---	---	<0.01	0.01	---	5,180			0.000	0.598	0.0%			0.00	0.27	-0.2%	
9-Feb	11.5	0.59	0.59	---	---	---		10	---	---	0.08	0.03	---	4,760	10.87	1.27	0.010	0.608	0.9%	57%	67%	0.00	0.27	0.6%	44%
10-Feb	11.4	0.46	0.46	0.00	0.00	0.00	0.05		---	---	<0.01	<0.01	---	4,760			0.000	0.608	0.0%			0.00	0.27	0.0%	
10-Feb	11.6	0.58	0.58	---	---	---		11	---	---	0.06	0.01	---	4,780	10.92	1.39	0.007	0.615	0.7%	58%	68%	0.00	0.27	0.2%	45%
13-Feb	10.8	0.40	0.40	0.00	0.00	0.00	0.06		---	---	<0.01	<0.01	---	4,780			0.000	0.615	0.0%			0.00	0.27	0.0%	
13-Feb	11.5	0.53	0.53	---	---	---		14	---	---	0.07	0.01	---	5,100	11.65	1.52	0.009	0.624	0.9%	58%	69%	0.00	0.27	0.2%	45%
14-Feb	10.9	0.47	0.47	0.00	0.00	0.00	0.04		---	---	<0.01	<0.01	---	5,100			0.000	0.624	0.0%			0.00	0.27	0.0%	
14-Feb	11.4	0.50	0.50	---	---	---		15	---	---	0.28	0.04	---	3,710	8.47	1.61	0.026	0.651	2.5%	61%	72%	0.00	0.28	0.6%	45%
15-Feb	11.2	0.40	0.40	0.00	0.00	1.60	0.04		1,600	---	<0.01	<0.01	---	3,710			0.000	0.651	0.0%			0.00	0.28	0.0%	
15-Feb	11.6	0.51	0.51	---	---	---		16	---	---	0.04	0.01	12.30	5,150	11.76	1.74	0.005	0.656	0.5%	61%	73%	0.00	0.28	0.2%	46%
16-Feb	11.1	0.40	0.40	0.00	0.00	0.00	0.08		---	---	<0.01	<0.01	---	5,150			0.000	0.656	0.0%			0.00	0.28	0.0%	
16-Feb	11.4	0.43	0.43	---	---	---		17	---	---	0.05	0.01	---	5,310	12.13	1.88	0.007	0.663	0.6%	62%	73%	0.00	0.28	0.2%	46%
17-Feb	11.3	0.41	0.41	0.00	0.00	0.00	0.06		---	---	<0.01	<0.01	---	5,310			0.000	0.663	0.0%			0.00	0.28	0.0%	
17-Feb	11.5	0.49	0.49	---	---	---		18	---	---	0.06	0.02	---	4,810	10.99	2.00	0.007	0.670	0.7%	63%	74%	0.00	0.28	0.4%	46%
21-Feb	10.2	0.30	0.30	0.00	0.00	1.40	0.05		---	XC-2	0.01	<0.01	---	4,810			-0.001	0.669	-0.1%			0.00	0.28	0.0%	
21-Feb	10.7	0.39	0.39	---	---	---		22	---	C-3	0.08	<0.01	---	5,550	12.68	2.14	0.011	0.680	1.1%	64%	75%	0.00	0.28	0.0%	46%
22-Feb	10.4	0.28	0.28	0.00	0.00	1.80	0.08		---	---	<0.01	<0.01	---	5,550			0.000	0.680	0.0%			0.00	0.28	0.0%	
22-Feb	11.2	0.44	0.44	---	---	---		23	---	---	0.14	0.03	12.30	4,220	9.64	2.25	0.015	0.695	1.4%	65%	77%	0.00	0.28	0.5%	47%
23-Feb	10.6	0.35	0.35	0.00	0.00	2.20	0.12		1,100	---	<0.01	<0.01	---	4,220			0.000	0.695	0.0%			0.00	0.28	0.0%	
23-Feb	11.2	0.48	0.48	---	---	---		24	---	---	0.07	<0.01	---	5,030	11.49	2.38	0.009	0.704	0.8%	66%	78%	0.00	0.28	0.0%	47%
24-Feb	10.7	0.43	0.43	0.00	0.00	0.00	0.15		---	---	0.01	<0.01	---	5,030			-0.001	0.703	-0.1%			0.00	0.28	0.0%	
24-Feb	11.0	0.46	0.46	---	---	---		25	---	---	0.05	0.01	---	5,000	11.42	2.51	0.006	0.710	0.6%	66%	78%	0.00	0.29	0.2%	47%
27-Feb	10.7	0.34	0.34	0.00	0.00	1.30	0.13		---	---	<0.01	<0.01	---	5,000			0.000	0.710	0.0%			0.00	0.29	0.0%	
27-Feb	11.0	0.49	0.49	---	---	---		28	---	---	0.03	0.01	---	4,960	11.33	2.63	0.004	0.713	0.4%	67%	79%	0.00	0.29	0.2%	47%
28-Feb	10.3	0.41	0.41	0.00	0.00	0.00	0.16		---	---	<0.01	<0.01	---	4,960			0.000	0.713	0.0%			0.00	0.29	0.0%	
28-Feb	10.8	0.43	0.43	---	---	---		29	---	---	0.08	0.01	---	3,870	8.84	2.73	0.008	0.721	0.7%	67%	80%	0.00	0.29	0.2%	47%
29-Feb	10.4	0.33	0.33	0.00	0.00	2.40	0.16		1,400	---	<0.01	<0.01	---	3,870			0.000	0.721	0.0%			0.00	0.29	0.0%	
29-Feb	10.9	0.48	0.48	---	---	---		30	---	---	0.03	<0.01	11.80	5,280	12.06	2.86	0.004	0.725	0.4%	68%	80%	0.00	0.29	0.0%	47%
1-Mar	10.8	0.35	0.35	0.00	0.00	1.30	0.20		---	---	<0.01	<0.01	---	5,280			0.000	0.725	0.0%			0.00	0.29	0.0%	
1-Mar	11.2	0.64	0.64	---	---	---		31	---	---	0.03	0.01	---	4,850	11.08	2.99	0.004	0.729	0.3%	68%	81%	0.00	0.29	0.2%	48%
2-Mar	10.9	0.42	0.42	0.00	0.00	0.00	0.19		---	---	0.01	<0.01	---	4,850			-0.001	0.728	-0.1%			0.00	0.29	0.0%	
2-Mar	11.3	0.44	0.44	---	---	---		32	---	---	0.04	0.01	---	5,090	11.63	3.12	0.005	0.733	0.5%	69%	81%	0.00	0.29	0.2%	48%
5-Mar	10.4	0.40	0.40	0.00	0.00	0.00	0.18		---	---	<0.01	<0.01	---	5,090			0.000	0.733	0.0%			0.00	0.29	0.0%	
5-Mar	10.4	0.55	0.55	---	---	---		35	---	---	0.04	0.01	---	4,510	10.30	3.23	0.005	0.737	0.4%	69%	82%	0.00	0.29	0.2%	48%
6-Mar	10.4	0.35	0.35	0.00	0.00	1.90	0.17		800	---	<0.01	<0.01	---	4,510			0.000	0.737	0.0%			0.00	0.29	0.0%	
6-Mar	10.5	0.35	0.35	---	---	---		36	---	---	0.10	0.01	---	4,350	9.94	3.34	0.011	0.749	1.0%	70%	83%	0.00	0.29	0.2%	48%
7-Mar	10.7	0.32	0.32	0.00	0.00	2.10	0.23		900	---	<0.01	<0.01	---	4,350			0.000	0.749	0.0%			0.00	0.29	0.0%	
7-Mar	11.2	0.40	0.40	---	---	---		37	---	---	0.03	0.01	9.57	5,010	11.44	3.47	0.004	0.752	0.4%	70%	83%	0.00	0.29	0.2%	48%
8-Mar	10.6	0.30	0.30	0.00	0.00	1.50	0.27		---	---	<0.01	<0.01	---	5,010			0.000	0.752	0.0%			0.00	0.29	0.0%	
8-Mar	10.8	0.58	0.58	---	---	---		38	---	---	0.01	0.01	---	5,870	13.41	3.62	0.001	0.754	0.1%	71%	83%	0.00	0.30	0.2%	49%
9-Mar	10.9	0.48	0.48	0.00	0.00	0.00	0.26		---	---	0.02	<0.01	---	5,870			-0.003	0.751	-0.3%			0.00	0.30	0.0%	
9-Mar	11.0	0.65	0.65	---	---	---		39	---	---	0.05	0.01	---	5,130	11.72	3.75	0.007	0.757	0.6%	71%	84%	0.00	0.30	0.2%	49%
12-Mar	10.6	0.41	0.41	0.00	0.00	0.00	0.21		---	XC-3	<0.01	<0.01	---	5,130			0.000	0.757	0.0%			0.00	0.30	0.0%	
12-Mar	10.7	0.43	0.43	---	---	---		42	---	C-4	<0.01	0.02	---	5,530	12.63	3.89	0.000	0.757	0.0%	71%	84%	0.00	0.30	0.5%	49%
13-Mar	10.6	0.29	0.29	0.00	0.00	1.70	0.22		---	---	<0.01	<0.01	---	5,530			0.000	0.757	0.0%			0.00	0.30	0.0%	
13-Mar	10.9	0.34	0.34	---	---	---		43	---	---	0.06	0.02	---	4,680	10.69	4.01	0.007	0.765	0.7%	72%	85%	0.00	0.30	0.4%	50%
14-Mar	10.6	0.27	0.27	0.00	0.00	1.50	0.27		---	---	<0.01	<0.01	---	4,680			0.000	0.765	0.0%			0.00	0.30	0.0%	
14-Mar	10.8	0.50	0.50	---	---	---		44	---	---	0.02	0.02	---	5,150	11.76	4.14	0.003	0.767	0.2%	72%	85%	0.00	0.30	0.4%	50%
15-Mar	10.6	0.41	0.41	0.00	0.00	0.00	0.29		---	---	<0.01	<0.01	---	5,150			0.000	0.767	0.0%			0.00	0.30	0.0%	
15-Mar	10.4	0.47	0.47	---	---	---		45	---	---	0.04	0.01	---	4,060	9.27	4.25	0.004	0.771	0.4%	72%	85%	0.00	0.31	0.2%	50%
16-Mar	10.4	0.40	0.40	0.00	0.00	0.00	0.27		---	---	<0.01	<0.01	---	4,060			0.000	0.771	0.0%			0.00	0.31	0.0%	
16-Mar	10.6	0.40	0.40	---	---	---		46	---	---	<0.01	0.01	---	5,060	11.56	4.38	0.000	0.771	0.0%	72%	85%	0.00	0.31	0.2%	51%
19-Mar	10.3	0.28	0.28	0.00	0.00	1.80	0.27		---	---	<0.01	<0.01	---	5,060			0.000	0.771	0.0%			0.00	0.31	0.0%	
19-Mar	10.3	0.29	0.29	---	---	---		49	---	---	0.01	0.01	---	4,050	9.25	4.48	0.001	0.772	0.1%	72%	85%	0.00	0.31	0.2%	51%
20-Mar	10.3	0.28	0.28	0.00	0.00	2.50	0.33		1,200	---	<0.01	<0.01	---	4,050			0.000	0.772	0.0%			0.00	0.31	0.0%	

Project:	Eagle Gold																									
Sample Description:	Environmental Composite																									
Test No.:	63310																									
Sample I.D.:	48158																									
Initial Ht., meters:	1.56																									
Crush Size, mm:	9.5																									
Column I.D., meters:	0.152																									

Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62
Extracted, gms Au/MT:	0.905	gms Ag/MT:	0.43
Tail Assay, gms Au/MT:	0.164	gms Ag/MT:	0.18
Calculated Head, gms Au/MT:	1.069	gms Ag/MT:	0.61
Weight of Sample, kg:	39.24		
Column Surface Area, square meters:	0.018		
Cement Addition, grams:	118.86	kg/MT:	3.03
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
20-Mar	10.4	0.53	0.53	---	---	---		50	---	---	0.05	0.02	---	4,710	10.76	4.60	0.006	0.778	0.6%	73%	86%	0.00	0.31	0.4%	51%
21-Mar	10.6	0.53	0.53	0.00	0.00	0.00	0.36		---	---	<0.01	<0.01	---	4,710			0.000	0.778	0.0%			0.00	0.31	0.0%	
21-Mar	10.9	0.48	0.48	---	---	---		51	---	---	0.02	0.01	9.17	4,720	10.78	4.72	0.002	0.781	0.2%	73%	86%	0.00	0.31	0.2%	51%
22-Mar	10.6	0.37	0.37	0.00	0.00	1.10	0.34		---	---	<0.01	<0.01	---	4,720			0.000	0.781	0.0%			0.00	0.31	0.0%	
22-Mar	10.9	0.39	0.39	---	---	---		52	---	---	0.04	0.08	---	4,950	11.31	4.85	0.005	0.786	0.5%	74%	87%	0.01	0.32	1.7%	53%
23-Mar	10.7	0.35	0.35	0.00	0.00	1.20	0.38		---	---	<0.01	<0.01	---	4,950			0.000	0.786	0.0%			0.00	0.32	0.0%	
23-Mar	10.9	0.49	0.49	---	---	---		53	---	---	0.02	0.01	---	4,610	10.53	4.96	0.002	0.788	0.2%	74%	87%	0.00	0.32	0.2%	53%
26-Mar	10.3	0.33	0.33	0.00	0.00	1.20	0.39		---	---	<0.01	<0.01	---	4,610			0.000	0.788	0.0%			0.00	0.32	0.0%	
26-Mar	10.6	0.54	0.54	---	---	---		56	---	---	<0.01	<0.01	---	4,840	11.06	5.09	0.000	0.788	0.0%	74%	87%	0.00	0.32	0.0%	53%
27-Mar	10.5	0.42	0.42	0.00	0.00	0.00	0.40		---	---	<0.01	0.01	---	4,840			0.000	0.788	0.0%			0.00	0.32	-0.2%	
27-Mar	10.6	0.50	0.50	---	---	---		57	---	---	<0.01	0.02	---	4,020	9.18	5.19	0.000	0.788	0.0%	74%	87%	0.00	0.32	0.3%	53%
28-Mar	10.5	0.40	0.40	0.00	0.00	1.30	0.39		1,300	---	<0.01	<0.01	---	4,020			0.000	0.788	0.0%			0.00	0.32	0.0%	
28-Mar	10.7	0.47	0.47	---	---	---		58	---	---	0.03	0.02	11.60	4,230	9.66	5.30	0.003	0.791	0.3%	74%	87%	0.00	0.33	0.4%	54%
29-Mar	10.6	0.36	0.36	0.00	0.00	2.10	0.42		1,100	---	<0.01	<0.01	---	4,230			0.000	0.791	0.0%			0.00	0.33	0.0%	
29-Mar	10.8	0.38	0.38	---	---	---		59	---	---	0.03	0.01	---	5,270	12.04	5.43	0.004	0.795	0.4%	74%	88%	0.00	0.33	0.2%	54%
30-Mar	10.6	0.28	0.28	0.00	0.00	1.70	0.46		---	---	<0.01	<0.01	---	5,270			0.000	0.795	0.0%			0.00	0.33	0.0%	
30-Mar	10.7	0.63	0.63	---	---	---		60	---	---	0.02	0.01	---	4,830	11.03	5.55	0.002	0.798	0.2%	75%	88%	0.00	0.33	0.2%	54%
2-Apr	10.4	0.42	0.42	0.00	0.00	0.00	0.47		---	---	<0.01	<0.01	---	4,830			0.000	0.798	0.0%			0.00	0.33	0.0%	
2-Apr	10.5	0.46	0.46	---	---	---		63	---	---	<0.01	0.01	---	5,380	12.29	5.69	0.000	0.798	0.0%	75%	88%	0.00	0.33	0.2%	54%
3-Apr	10.4	0.35	0.35	0.00	0.00	1.40	0.44		---	---	<0.01	<0.01	---	5,380			0.000	0.798	0.0%			0.00	0.33	0.0%	
3-Apr	10.6	0.51	0.51	---	---	---		64	---	---	0.04	0.02	---	4,260	9.73	5.80	0.004	0.802	0.4%	75%	89%	0.00	0.33	0.4%	55%
4-Apr	10.5	0.40	0.40	0.00	0.00	1.90	0.47		1,000	---	<0.01	<0.01	---	4,260			0.000	0.802	0.0%			0.00	0.33	0.0%	
4-Apr	10.8	0.40	0.40	---	---	---		65	---	---	0.04	<0.01	9.73	5,040	11.51	5.93	0.005	0.807	0.5%	76%	89%	0.00	0.33	0.0%	55%
5-Apr	10.5	0.32	0.32	0.00	0.00	1.40	0.52		---	---	<0.01	<0.01	---	5,040			0.000	0.807	0.0%			0.00	0.33	0.0%	
5-Apr	10.8	0.51	0.51	---	---	---		66	---	---	<0.01	0.01	---	4,720	10.78	6.05	0.000	0.807	0.0%	76%	89%	0.00	0.33	0.2%	55%
6-Apr	10.6	0.40	0.40	0.00	0.00	0.00	0.54		---	---	<0.01	<0.01	---	4,720			0.000	0.807	0.0%			0.00	0.33	0.0%	
6-Apr	10.8	0.59	0.59	---	---	---		67	---	---	<0.01	0.01	---	4,990	11.40	6.18	0.000	0.807	0.0%	76%	89%	0.00	0.33	0.2%	55%
9-Apr	10.4	0.48	0.48	0.00	0.00	0.00	0.50		---	---	<0.01	<0.01	---	4,990			0.000	0.807	0.0%			0.00	0.33	0.0%	
9-Apr	10.3	0.64	0.64	---	---	---		70	---	---	0.02	0.01	---	4,760	10.87	6.30	0.002	0.810	0.2%	76%	90%	0.00	0.34	0.2%	55%
10-Apr	10.3	0.42	0.42	0.00	0.00	0.00	0.47		---	---	<0.01	<0.01	---	4,760			0.000	0.810	0.0%			0.00	0.34	0.0%	
10-Apr	10.5	0.42	0.42	---	---	---		71	---	---	0.04	0.01	---	4,400	10.05	6.41	0.004	0.814	0.4%	76%	90%	0.00	0.34	0.2%	55%
11-Apr	10.4	0.31	0.31	0.00	0.00	2.20	0.48		900	---	<0.01	<0.01	---	4,400			0.000	0.814	0.0%			0.00	0.34	0.0%	
11-Apr	10.6	0.41	0.41	---	---	---		72	---	---	0.01	<0.01	11.30	4,410	10.07	6.52	0.001	0.815	0.1%	76%	90%	0.00	0.34	0.0%	55%
12-Apr	10.5	0.40	0.40	0.00	0.00	0.90	0.54		900	---	<0.01	<0.01	---	4,410			0.000	0.815	0.0%			0.00	0.34	0.0%	
12-Apr	10.7	0.36	0.36	---	---	---		73	---	---	0.01	0.03	---	5,340	12.20	6.66	0.001	0.817	0.1%	76%	90%	0.00	0.34	0.7%	56%
13-Apr	10.4	0.30	0.30	0.00	0.00	1.60	0.55		---	---	<0.01	<0.01	---	5,340			0.000	0.817	0.0%			0.00	0.34	0.0%	
13-Apr	10.7	0.70	0.70	---	---	---		74	---	---	0.01	<0.01	---	4,720	10.78	6.78	0.001	0.818	0.1%	77%	90%	0.00	0.34	0.0%	56%
16-Apr	10.4	0.48	0.48	0.00	0.00	0.00	0.55		---	---	<0.01	<0.01	---	4,720			0.000	0.818	0.0%			0.00	0.34	0.0%	
16-Apr	10.3	0.41	0.41	---	---	---		77	---	---	0.02	0.01	---	5,060	11.56	6.91	0.003	0.821	0.2%	77%	91%	0.00	0.34	0.2%	56%
17-Apr	10.2	0.32	0.32	0.00	0.00	1.40	0.54		---	---	<0.01	<0.01	---	5,060			0.000	0.821	0.0%			0.00	0.34	0.0%	
17-Apr	10.5	0.62	0.62	---	---	---		78	---	---	0.04	0.01	---	4,640	10.60	7.02	0.005	0.825	0.4%	77%	91%	0.00	0.34	0.2%	57%
18-Apr	10.5	0.43	0.43	0.00	0.00	0.00	0.56		---	---	<0.01	<0.01	---	4,640			0.000	0.825	0.0%			0.00	0.34	0.0%	
18-Apr	10.6	0.84	0.84	---	---	---		79	---	---	0.01	0.01	11.90	4,400	10.05	7.14	0.001	0.826	0.1%	77%	91%	0.00	0.34	0.2%	57%
19-Apr	10.6	0.58	0.58	0.00	0.00	0.90	0.51		900	---	<0.01	<0.01	---	4,400			0.000	0.826	0.0%			0.00	0.34	0.0%	
19-Apr	10.6	0.59	0.59	---	---	---		80	---	---	<0.01	0.01	---	4,640	10.60	7.26	0.000	0.826	0.0%	77%	91%	0.00	0.35	0.2%	57%
20-Apr	10.6	0.46	0.46	0.00	0.00	0.00	0.51		---	---	<0.01	<0.01	---	4,640			0.000	0.826	0.0%			0.00	0.35	0.0%	
20-Apr	10.7	0.51	0.51	---	---	---		81	---	---	<0.01	0.01	---	4,980	11.38	7.38	0.000	0.826	0.0%	77%	91%	0.00	0.35	0.2%	57%
23-Apr	10.4	0.30	0.30	0.00	0.00	1.50	0.51		---	---	<0.01	<0.01	---	4,980			0.000	0.826	0.0%			0.00	0.35	0.0%	
23-Apr	10.4	0.56	0.56	---	---	---		84	---	---	<0.01	0.01	---	4,660	10.64	7.50	0.000	0.826	0.0%	77%	91%	0.00	0.35	0.2%	57%
24-Apr	10.4	0.44	0.44	0.00	0.00	0.00	0.53		---	---	<0.01	<0.01	---	4,660			0.000	0.826	0.0%			0.00	0.35	0.0%	
24-Apr	10.4	0.53	0.53	---	---	---		85	---	---	0.04	0.02	---	4,310	9.84	7.61	0.004	0.831	0.4%	78%	92%	0.00	0.35	0.4%	58%
25-Apr	10.4	0.40	0.40	0.00	0.00	1.00	0.51		1,000	---	<0.01	<0.01	---	4,420			0.000	0.831	0.0%			0.00	0.35	0.0%	
25-Apr	10.5	0.42	0.42	---	---	---		86	---	---	<0.01	0.01	11.20	4,420	10.10	7.72	0.000	0.831	0.0%	78%	92%	0.00	0.35	0.2%	58%
26-Apr	10.4	0.40	0.40	0.00	0.00	0.90	0.54		900	---	<0.01	<0.01	---	4,420			0.000	0.831	0.0%			0.00	0.35	0.0%	
26-Apr	10.5	0.40	0.40	---	---	---		87	---	---	0.02	0.01	---	5,030	11.49	7.85	0.003	0.833	0.2%	78%	92%	0.00	0.35	0.2%	58%
27-Apr	10.4	0.29	0.29	0.00	0.00	1.60	0.56		---	---	<0.01	<0.01	---	5,030			0.000	0.833	0.0%			0.00	0.35	0.0%	
27-Apr	10.6	0.49	0.49	---	---	---		88	---	---	0.02	<0.01	---	5,040	11.51	7.98	0.003	0.836	0.2%	78%	92%	0.00	0.35	0.0%	58%
30-Apr	10.3	0.29	0.29	0.00	0.00	1.60	0.58		---	---	<0.01	<0.01	---	5,040			0.000	0.836	0.0%			0.00	0.35	0.0%	
30-Apr	10.3	0.48	0.48	---	---	---		91	---	---	0.02	0.01	---	5,170	11.81	8.11	0.003	0.839	0.2%	78%	93%	0.00	0.35	0.2%	58%
1-May	10.4	0.33	0.33	0.00	0.00	1.40	0.60		---	---	<0.01	<0.01	---	5,170			0.000	0.839	0.0%			0.00	0.35	0.0%	
1-May	10.5	0.63	0.63	---	---	---		92	---	---	0.01	0.02	---	4,310	9.84	8.22	0.001	0.840	0.1%	79%	93%	0.00	0.36	0.4%	59%
2-May	10.4	0.47	0.47	0.00	0.00	0.00	0.60		1,000	---	<0.01	<0.01	---	4,310			0.000	0.840	0.0%			0.00	0.36	0.0%	
2-May	10.4	0.38	0.38	---	---	---		93	---	---	0.02	0.01	12.00	4,820	11.01	8.34	0.002	0.842	0.2%	79%	93%	0.00	0.36	0.2%	59%
3-May	10.2	0.30	0.30	0.00	0.00	1.50	0.59		---	---	<0.01	<0.01	---	4,820			0.000	0.842	0.0%			0.00	0.36	0.0%	
3-May	10.4	0.49	0.49	---	---	---		94	---	---	0.03	0.02	---	4,240	9.68	8.45	0.003	0.845	0.3%	79%	93%	0.00	0.36	0.4%	59%
4-May	10.4	0.40	0.40	0.00	0.00	0.00	0.63		---	---	<0.01	<0.01	---	4,240			0.000	0.845	0.0%			0.00	0.36	0.0%	
4-May	10.4	0.48	0.48	---	---	---		95	---	---	0.02	0.01	---	5,190	11.85	8.58	0.003	0.848	0.2%	79%	94%	0.00	0.36	0.2%	59%
7-May	10.4	0.31	0.31	0.00	0.00	1.50	0.60		---	---	<0.01	<0.01	---	5,190			0.000	0.848	0.0%			0.00	0.36	0.0%	
7-May	10.3	0.48	0.48	---	---	---		98	---	---	0.04	0.03	---	4,170	9.53	8.69	0.004	0.852	0.4%	80%	94%	0.00	0.36	0.5%	60%
8-May	10.3	0.35	0.35	0.00	0.00	2.10	0.63		1,100	---	<0.01	<0.01	---	4,170			0.000	0.852	0.0%			0.00	0.36	0.0%	
8-May	10.4	0.28	0.28	---	---	---		99	---	---	0.02	0.01	---	4,400	10.05	8.80	0.002	0.855	0.2%	80%	94%	0.00	0.37	0.2%	60%
9-May	10.1	0.23	0.23	0.00	0.00	2.50	0.70		900	---	<0.01	<0.01	---	4,400			0.000	0.855	0.0%			0.00	0.37	0.0%	
9-May	10.3	0.54	0.54	---	---	---		100	---	---	0.02	<0.01	10.00	5,010	11.44	8.93	0.003	0.857	0.2%	80%	95%	0.00	0.37	0.0%	60%
10-May	10.3	0.42	0.42	0.00	0.00	0.00	0.73		---	---	<0.01	<0.01	---	5,010			0.000	0.857	0.0%			0.00	0.37	0.0%	
10-May	10.3	0.47	0.47	---	---	---		101	---	---	0.02	0.01	---	4,920	11.24	9.06	0.003	0.860	0.2%	80%	95%	0.00	0.37	0.2%	60%

Project:	Eagle Gold																								
Sample Description:	Environmental Composite																								
Test No.:	63310																								
Sample I.D.:	48158																								
Initial Ht., meters:	1.56																								
Crush Size, mm:	9.5																								
Column I.D., meters:	0.152																								

Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62
Extracted, gms Au/MT:	0.905	gms Ag/MT:	0.43
Tail Assay, gms Au/MT:	0.164	gms Ag/MT:	0.18
Calculated Head, gms Au/MT:	1.069	gms Ag/MT:	0.61
Weight of Sample, kg:	39.24		
Column Surface Area, square meters:	0.018		
Cement Addition, grams:	118.86	kg/MT:	3.03
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
11-May	10.2	0.40	0.40	0.00	0.00	0.00	0.69		---	---	<0.01	<0.01	---	4,920			0.000	0.860	0.0%			0.00	0.37	0.0%	
11-May	10.3	0.58	0.58	---	---	---		102	---	---	0.01	0.01	---	4,850	11.08	9.18	0.001	0.861	0.1%	81%	95%	0.00	0.37	0.2%	61%
14-May	10.3	0.40	0.40	0.00	0.00	0.00	0.67		---	---	<0.01	<0.01	---	4,850			0.000	0.861	0.0%			0.00	0.37	0.0%	
14-May	10.1	0.36	0.36	---	---	---		105	---	---	0.02	0.01	---	4,900	11.19	9.30	0.002	0.863	0.2%	81%	95%	0.00	0.37	0.2%	61%
15-May	10.2	0.26	0.26	0.00	0.00	1.70	0.68		---	---	<0.01	<0.01	---	4,900			0.000	0.863	0.0%			0.00	0.37	0.0%	
15-May	10.3	0.30	0.30	---	---	---		106	---	---	0.04	0.01	---	4,110	9.39	9.41	0.004	0.868	0.4%	81%	96%	0.00	0.37	0.2%	61%
16-May	10.2	0.27	0.27	0.00	0.00	2.60	0.74		1,200	---	<0.01	<0.01	---	4,110			0.000	0.868	0.0%			0.00	0.37	0.0%	
16-May	10.3	0.52	0.52	---	---	---		107	---	---	<0.01	0.02	13.20	4,750	10.85	9.53	0.000	0.868	0.0%	81%	96%	0.00	0.37	0.4%	61%
17-May	10.2	0.40	0.40	0.00	0.00	0.00	0.78		---	---	<0.01	<0.01	---	4,750			0.000	0.868	0.0%			0.00	0.37	0.0%	
17-May	10.2	0.61	0.61	---	---	---		108	---	---	0.03	0.02	---	4,860	11.10	9.65	0.004	0.871	0.3%	82%	96%	0.00	0.37	0.4%	62%
18-May	10.3	0.47	0.47	0.00	0.00	0.00	0.73		---	---	<0.01	0.01	---	4,860			0.000	0.871	0.0%			0.00	0.37	-0.2%	
18-May	10.2	0.29	0.29	---	---	---		109	---	---	0.01	0.02	---	4,500	10.28	9.77	0.001	0.872	0.1%	82%	96%	0.00	0.38	0.4%	62%
21-May	10.2	0.17	0.17	0.00	0.00	2.70	0.74		800	---	<0.01	<0.01	---	4,500			0.000	0.872	0.0%			0.00	0.38	0.0%	
21-May	10.1	0.35	0.35	---	---	---		112	---	---	0.01	0.02	---	4,720	10.78	9.89	0.001	0.874	0.1%	82%	97%	0.00	0.38	0.4%	62%
22-May	10.2	0.23	0.23	0.00	0.00	1.80	0.83		---	---	<0.01	<0.01	---	4,720			0.000	0.874	0.0%			0.00	0.38	0.0%	
22-May	10.2	0.30	0.30	---	---	---		113	---	---	0.02	0.01	---	4,730	10.80	10.01	0.002	0.876	0.2%	82%	97%	0.00	0.38	0.2%	63%
23-May	10.1	0.21	0.21	0.00	0.00	1.20	0.86		500	---	<0.01	<0.01	---	4,730			0.000	0.876	0.0%			0.00	0.38	0.0%	
23-May	10.2	0.58	0.58	---	---	---		114	---	---	0.03	<0.01	10.30	4,420	10.10	10.12	0.003	0.879	0.3%	82%	97%	0.00	0.38	0.0%	63%
24-May	10.3	0.46	0.46	0.00	0.00	0.90	0.85		900	---	<0.01	<0.01	---	4,420			0.000	0.879	0.0%			0.00	0.38	0.0%	
24-May	10.3	0.47	0.47	---	---	---		115	---	---	0.02	0.01	---	4,600	10.51	10.24	0.002	0.882	0.2%	83%	97%	0.00	0.38	0.2%	63%
25-May	10.2	0.40	0.40	0.00	0.00	0.00	0.84		---	---	<0.01	<0.01	---	4,600			0.000	0.882	0.0%			0.00	0.38	0.0%	
25-May	10.2	0.40	0.40	---	---	---		116	---	---	<0.01	0.01	---	5,260	12.01	10.37	0.000	0.882	0.0%	83%	97%	0.00	0.38	0.2%	63%
29-May	10.1	0.18	0.18	0.00	0.00	2.20	0.84		---	---	<0.01	<0.01	---	5,260			0.000	0.882	0.0%			0.00	0.38	0.0%	
29-May	10.2	0.27	0.27	---	---	---		120	---	---	<0.01	0.01	---	3,860	8.82	10.47	0.000	0.882	0.0%	83%	97%	0.00	0.38	0.2%	63%
30-May	10.0	0.21	0.21	0.00	0.00	2.90	0.91		1,400	---	<0.01	<0.01	---	3,860			0.000	0.882	0.0%			0.00	0.38	0.0%	
30-May	10.1	0.32	0.32	---	---	---		121	---	---	<0.01	0.01	12.20	5,170	11.81	10.60	0.000	0.882	0.0%	83%	97%	0.00	0.38	0.2%	63%
31-May	10.1	0.25	0.25	0.00	0.00	1.80	0.97		---	---	<0.01	<0.01	---	5,170			0.000	0.882	0.0%			0.00	0.38	0.0%	
31-May	10.2	0.41	0.41	---	---	---		122	---	---	<0.01	0.01	---	4,740	10.83	10.72	0.000	0.882	0.0%	83%	97%	0.00	0.39	0.2%	64%
1-Jun	10.2	0.31	0.31	0.00	0.00	1.40	0.99		---	---	<0.01	<0.01	---	4,740			0.000	0.882	0.0%			0.00	0.39	0.0%	
1-Jun	10.1	0.48	0.48	---	---	---		123	---	---	0.01	<0.01	---	4,970	11.35	10.85	0.001	0.883	0.1%	83%	98%	0.00	0.39	0.0%	64%
4-Jun	10.2	0.30	0.30	0.00	0.00	1.50	0.99		---	---	<0.01	<0.01	---	4,970			0.000	0.883	0.0%			0.00	0.39	0.0%	
4-Jun	10.1	0.49	0.49	---	---	---		126	---	---	0.03	0.01	---	5,120	11.69	10.98	0.004	0.887	0.4%	83%	98%	0.00	0.39	0.2%	64%
5-Jun	10.2	0.40	0.40	0.00	0.00	0.00	1.00		---	---	<0.01	<0.01	---	5,120			0.000	0.887	0.0%			0.00	0.39	0.0%	
5-Jun	10.2	0.57	0.57	---	---	---		127	---	---	0.04	0.02	---	4,720	10.78	11.10	0.005	0.892	0.5%	83%	99%	0.00	0.39	0.4%	64%
6-Jun	10.2	0.41	0.41	0.00	0.00	0.60	0.97		600	---	<0.01	<0.01	---	4,720			0.000	0.892	0.0%			0.00	0.39	0.0%	
6-Jun	10.1	0.38	0.38	---	---	---		128	---	---	0.01	0.01	12.20	4,670	10.67	11.22	0.001	0.893	0.1%	84%	99%	0.00	0.39	0.2%	64%
7-Jun	10.2	0.33	0.33	0.00	0.00	1.90	0.99		900	---	<0.01	<0.01	---	4,670			0.000	0.893	0.0%			0.00	0.39	0.0%	
7-Jun	10.1	0.37	0.37	---	---	---		129	---	---	<0.01	0.02	---	4,460	10.19	11.33	0.000	0.893	0.0%	84%	99%	0.00	0.39	0.4%	65%
8-Jun	10.2	0.32	0.32	0.00	0.00	1.30	1.05		---	---	0.01	0.01	---	4,460			-0.001	0.892	-0.1%			0.00	0.39	-0.2%	
8-Jun	10.1	0.36	0.36	---	---	---		130	---	---	0.01	0.20	11.60	5,110	11.67	11.46	0.001	0.893	0.1%	84%	99%	0.03	0.42	4.3%	69%
11-Jun	10.2	0.24	0.24	0.00	0.00	0.00	1.07		---	---	<0.01	<0.01	---	5,110			0.000	0.893	0.0%			0.00	0.42	0.0%	
11-Jun	10.1	0.48	0.48	---	---	---		133	---	---	<0.01	<0.01	---	4,620	10.55	11.58	0.000	0.893	0.0%	84%	99%	0.00	0.42	0.0%	69%
12-Jun	10.2	0.31	0.31	0.00	0.00	0.00	1.05		700	---	<0.01	0.01	---	4,620			0.000	0.893	0.0%			0.00	0.42	-0.2%	
12-Jun	10.2	0.31	0.31	---	---	---		134	---	---	0.02	0.03	---	3,830	8.75	11.68	0.002	0.895	0.2%	84%	99%	0.00	0.42	0.5%	69%
13-Jun	10.2	0.27	0.27	0.00	0.00	0.00	1.05		1,500	---	<0.01	0.01	---	3,830			0.000	0.895	0.0%			0.00	0.42	-0.2%	
13-Jun	10.2	0.29	0.29	---	---	---		135	---	---	<0.01	0.01	16.60	5,690	13.00	11.83	0.000	0.895	0.0%	84%	99%	0.00	0.42	0.2%	69%
14-Jun	10.0	0.18	0.18	0.00	0.00	0.00	1.05		---	---	<0.01	<0.01	---	5,690			0.000	0.895	0.0%			0.00	0.42	0.0%	
14-Jun	10.0	0.20	0.20	---	---	---		136	---	---	0.02	0.01	---	4,900	11.19	11.95	0.002	0.898	0.2%	84%	99%	0.00	0.42	0.2%	69%
15-Jun	10.0	0.19	0.19	0.00	0.00	0.00	1.05		---	---	0.01	<0.01	---	4,900			-0.001	0.896	-0.1%			0.00	0.42	0.0%	
15-Jun	10.1	0.16	0.16	---	---	---		137	---	---	0.02	0.01	---	4,810	10.99	12.07	0.002	0.899	0.2%	84%	99%	0.00	0.42	0.2%	70%
18-Jun	9.7	0.14	0.14	0.00	0.00	0.00	1.06		---	---	<0.01	0.01	---	4,810			0.000	0.899	0.0%			0.00	0.42	-0.2%	
18-Jun	9.9	0.17	0.17	---	---	---		140	---	---	0.01	0.02	---	5,590	12.77	12.22	0.001	0.900	0.1%	84%	99%	0.00	0.42	0.5%	70%
19-Jun	9.8	0.09	0.09	0.00	0.00	0.00	1.05		---	---	<0.01	0.01	---	5,590			0.000	0.900	0.0%			0.00	0.42	-0.2%	
19-Jun	10.0	0.10	0.10	---	---	---		141	---	---	0.02	0.02	---	3,960	9.05	12.32	0.002	0.902	0.2%	84%	100%	0.00	0.42	0.3%	70%
20-Jun	9.8	0.06	0.06	0.00	0.00	0.00	1.06		1,300	---	<0.01	0.01	---	3,960			0.000	0.902	0.0%			0.00	0.42	-0.2%	
20-Jun	9.8	0.06	0.06	---	---	---		142	---	---	0.02	0.02	9.50	5,100	11.65	12.45	0.003	0.905	0.2%	85%	100%	0.00	0.43	0.4%	70%
21-Jun	9.8	0.08	0.08	0.00	0.00	0.00	1.07		---	---	<0.01	0.01	---	5,100			0.000	0.905	0.0%			0.00	0.42	-0.2%	
21-Jun	9.8	0.07	0.07	---	---	---		143	---	---	<0.01	0.01	---	5,000	11.42	12.57	0.000	0.905	0.0%	85%	100%	0.00	0.43	0.2%	70%
22-Jun	9.7	0.04	0.04	0.00	0.00	0.00	1.06		---	XC-4	<0.01	<0.01	---	5,000			0.000	0.905	0.0%			0.00	0.43	0.0%	

Project:	Eagle Gold																								
Sample Description:	Environmental Composite																								
Test No.:	63313																								
Sample I.D.:	48158																								
Initial Ht., meters:	1.54																								
Crush Size, mm:	9.5																								
Column I.D., meters:	0.152																								

Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62
Extracted, gms Au/MT:	0.813	gms Ag/MT:	0.32
Tail Assay, gms Au/MT:	0.172	gms Ag/MT:	0.21
Calculated Head, gms Au/MT:	0.985	gms Ag/MT:	0.53
Weight of Sample, kg:	39.20		
Column Surface Area, square meters:	0.018		
Cement Addition, grams:	118.86	kg/MT:	3.03
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
30-Jan	---	---	---	0.00	0.00	6.85	0.00		6,849	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
30-Jan	---	---	---	---	---	---		0	---	---	---	---	---	---	0.00	0.00	0.000	0.000	0.0%	0%	0%	0.00	0.00	0.0%	0%
31-Jan	---	---	---	0.00	0.00	5.30	0.17		5,300	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
31-Jan	11.7	0.97	0.97	---	---	---		1	---	C-1	2.65	1.54	18.70	4,200	9.59	0.11	0.284	0.284	28.8%	29%	35%	0.17	0.17	31.2%	31%
1-Feb	11.0	0.62	0.62	0.00	0.00	1.10	0.21		1,100	---	<0.01	<0.01	---	4,200			0.000	0.284	0.0%			0.00	0.17	0.0%	
1-Feb	11.7	0.81	0.81	---	---	---		2	---	---	0.77	0.36	8.71	5,420	12.38	0.25	0.106	0.390	10.8%	40%	48%	0.05	0.21	9.4%	41%
2-Feb	11.6	0.72	0.72	0.00	0.00	0.00	0.12		---	---	<0.01	<0.01	---	5,420			0.000	0.390	0.0%			0.00	0.21	0.0%	
2-Feb	11.7	0.78	0.78	---	---	---		3	---	---	0.40	0.15	6.14	4,640	10.60	0.36	0.047	0.438	4.8%	44%	54%	0.02	0.23	3.4%	44%
3-Feb	11.8	0.75	0.75	0.00	0.00	0.70	0.09		700	---	0.02	0.01	---	4,640			-0.002	0.435	-0.2%			0.00	0.23	-0.2%	
3-Feb	11.9	0.88	0.88	---	---	---		4	---	---	0.24	0.08	---	5,020	11.47	0.49	0.031	0.466	3.1%	47%	57%	0.01	0.24	1.9%	46%
4-Feb	11.8	0.80	0.80	0.00	0.00	0.00	0.10		---	---	<0.01	0.02	---	5,020			0.000	0.466	0.0%			0.00	0.24	-0.5%	
4-Feb	11.9	0.80	0.80	---	---	---		5	---	---	0.19	0.06	---	5,840	13.34	0.64	0.028	0.494	2.9%	50%	61%	0.01	0.25	1.7%	47%
5-Feb	11.8	0.65	0.65	0.00	0.00	0.00	0.06		---	---	<0.01	0.02	---	5,840			0.000	0.494	0.0%			0.00	0.24	-0.6%	
5-Feb	11.8	0.76	0.76	---	---	---		6	---	---	0.20	0.06	---	4,840	11.06	0.76	0.025	0.519	2.5%	53%	64%	0.01	0.25	1.4%	48%
6-Feb	11.5	0.67	0.67	0.00	0.00	0.00	0.07		---	---	<0.01	0.01	---	4,840			0.000	0.519	0.0%			0.00	0.25	-0.2%	
6-Feb	11.7	0.71	0.71	---	---	---		7	---	---	0.19	0.05	---	4,800	10.96	0.89	0.023	0.542	2.4%	55%	67%	0.01	0.26	1.2%	49%
7-Feb	11.5	0.66	0.66	0.00	0.00	0.00	0.08		---	XC-1	<0.01	<0.01	---	4,800			0.000	0.542	0.0%			0.00	0.26	0.0%	
7-Feb	11.6	0.71	0.71	---	---	---		8	---	C-2	0.14	0.02	---	5,020	11.47	1.01	0.018	0.560	1.8%	57%	69%	0.00	0.26	0.5%	49%
8-Feb	11.1	0.48	0.48	0.00	0.00	0.00	0.07		---	---	<0.01	0.01	---	5,020			0.000	0.560	0.0%			0.00	0.26	-0.2%	
8-Feb	11.7	0.65	0.65	---	---	---		9	---	---	0.05	0.04	10.80	4,940	11.28	1.14	0.006	0.567	0.6%	57%	70%	0.01	0.26	1.0%	50%
9-Feb	11.2	0.56	0.56	0.00	0.00	0.00	0.07		---	---	<0.01	0.01	---	4,940			0.000	0.567	0.0%			0.00	0.26	-0.2%	
9-Feb	11.4	0.58	0.58	---	---	---		10	---	---	0.09	0.04	---	4,680	10.69	1.26	0.011	0.577	1.1%	59%	71%	0.00	0.27	0.9%	51%
10-Feb	11.3	0.53	0.53	0.00	0.00	0.00	0.06		---	---	<0.01	<0.01	---	4,680			0.000	0.577	0.0%			0.00	0.27	0.0%	
10-Feb	11.6	0.52	0.52	---	---	---		11	---	---	0.07	0.01	---	4,740	10.83	1.38	0.008	0.586	0.9%	59%	72%	0.00	0.27	0.2%	51%
13-Feb	10.9	0.47	0.47	0.00	0.00	0.00	0.07		---	---	<0.01	<0.01	---	4,740			0.000	0.586	0.0%			0.00	0.27	0.0%	
13-Feb	11.4	0.56	0.56	---	---	---		14	---	---	0.09	0.01	---	3,920	8.95	1.48	0.009	0.595	0.9%	60%	73%	0.00	0.27	0.2%	51%
14-Feb	11.0	0.48	0.48	0.00	0.00	1.40	0.07		1,400	---	0.01	<0.01	---	3,920			-0.001	0.594	-0.1%			0.00	0.27	0.0%	
14-Feb	11.3	0.45	0.45	---	---	---		15	---	---	0.17	0.03	---	4,930	11.26	1.61	0.021	0.615	2.2%	62%	76%	0.00	0.27	0.7%	52%
15-Feb	11.4	0.40	0.40	0.00	0.00	0.00	0.11		---	---	<0.01	<0.01	---	4,930			0.000	0.615	0.0%			0.00	0.27	0.0%	
15-Feb	11.6	0.52	0.52	---	---	---		16	---	---	0.10	0.01	10.70	4,620	10.55	1.72	0.012	0.627	1.2%	64%	77%	0.00	0.27	0.2%	52%
16-Feb	11.2	0.47	0.47	0.00	0.00	0.00	0.10		---	---	<0.01	<0.01	---	4,620			0.000	0.627	0.0%			0.00	0.27	0.0%	
16-Feb	11.4	0.41	0.41	---	---	---		17	---	---	0.03	0.01	---	5,340	12.20	1.86	0.004	0.631	0.4%	64%	78%	0.00	0.28	0.3%	52%
17-Feb	11.4	0.40	0.40	0.00	0.00	0.00	0.09		---	---	<0.01	<0.01	---	5,340			0.000	0.631	0.0%			0.00	0.28	0.0%	
17-Feb	11.5	0.42	0.42	---	---	---		18	---	---	0.03	0.01	---	4,160	9.50	1.97	0.003	0.634	0.3%	64%	78%	0.00	0.28	0.2%	52%
21-Feb	10.2	0.28	0.28	0.00	0.00	2.40	0.10		1,100	XC-2	0.01	<0.01	---	4,160			-0.001	0.633	-0.1%			0.00	0.28	0.0%	
21-Feb	10.7	0.39	0.39	---	---	---		22	---	C-3	0.06	<0.01	---	6,050	13.82	2.12	0.009	0.642	0.9%	65%	79%	0.00	0.28	0.0%	52%
22-Feb	10.6	0.35	0.35	0.00	0.00	1.50	0.15		---	---	<0.01	<0.01	---	6,050			0.000	0.642	0.0%			0.00	0.28	0.0%	
22-Feb	11.2	0.55	0.55	---	---	---		23	---	---	0.09	0.02	9.60	4,770	10.90	2.24	0.011	0.653	1.1%	66%	80%	0.00	0.28	0.5%	53%
23-Feb	10.8	0.42	0.42	0.00	0.00	0.00	0.15		---	---	<0.01	<0.01	---	4,770			0.000	0.653	0.0%			0.00	0.28	0.0%	
23-Feb	11.2	0.47	0.47	---	---	---		24	---	---	0.04	0.01	---	5,230	11.95	2.38	0.005	0.659	0.5%	67%	81%	0.00	0.28	0.3%	53%
24-Feb	10.7	0.43	0.43	0.00	0.00	0.00	0.15		---	---	<0.01	<0.01	---	5,230			0.000	0.659	0.0%			0.00	0.28	0.0%	
24-Feb	10.9	0.44	0.44	---	---	---		25	---	---	0.03	<0.01	---	4,700	10.74	2.50	0.004	0.662	0.4%	67%	81%	0.00	0.28	0.0%	53%
27-Feb	10.7	0.28	0.28	0.00	0.00	1.50	0.14		---	---	<0.01	<0.01	---	4,700			0.000	0.662	0.0%			0.00	0.28	0.0%	
27-Feb	10.8	0.37	0.37	---	---	---		28	---	---	0.03	<0.01	---	5,040	11.51	2.63	0.004	0.666	0.4%	68%	82%	0.00	0.28	0.0%	53%
28-Feb	10.4	0.28	0.28	0.00	0.00	1.60	0.19		---	---	<0.01	<0.01	---	5,040			0.000	0.666	0.0%			0.00	0.28	0.0%	
28-Feb	10.8	0.39	0.39	---	---	---		29	---	---	0.04	<0.01	---	4,140	9.46	2.73	0.004	0.670	0.4%	68%	82%	0.00	0.28	0.0%	53%
29-Feb	10.5	0.32	0.32	0.00	0.00	2.40	0.22		1,200	---	0.01	<0.01	---	4,140			-0.001	0.669	-0.1%			0.00	0.28	0.0%	
29-Feb	10.8	0.50	0.50	---	---	---		30	---	---	0.04	<0.01	8.30	5,050	11.54	2.86	0.005	0.675	0.5%	68%	83%	0.00	0.28	0.0%	53%
1-Mar	10.8	0.42	0.42	0.00	0.00	0.00	0.26		---	---	<0.01	<0.01	---	5,050			0.000	0.675	0.0%			0.00	0.28	0.0%	
1-Mar	11.1	0.55	0.55	---	---	---		31	---	---	0.02	0.01	---	5,030	11.49	2.99	0.003	0.677	0.3%	69%	83%	0.00	0.28	0.2%	53%
2-Mar	10.9	0.46	0.46	0.00	0.00	0.00	0.22		---	---	<0.01	<0.01	---	5,030			0.000	0.677	0.0%			0.00	0.28	0.0%	
2-Mar	11.1	0.50	0.50	---	---	---		32	---	---	0.04	0.01	---	4,830	11.03	3.11	0.005	0.682	0.5%	69%	84%	0.00	0.28	0.2%	54%
5-Mar	10.4	0.35	0.35	0.00	0.00	1.20	0.21		---	---	0.02	<0.01	---	4,830			-0.002	0.680	-0.3%			0.00	0.28	0.0%	
5-Mar	10.5	0.37	0.37	---	---	---		35	---	---	0.03	<0.01	---	4,960	11.33	3.24	0.004	0.683	0.4%	69%	84%	0.00	0.28	0.0%	54%
6-Mar	10.5	0.32	0.32	0.00	0.00	1.40	0.25		---	---	<0.01	<0.01	---	4,960			0.000	0.683	0.0%			0.00	0.28	0.0%	
6-Mar	10.6	0.33	0.33	---	---	---		36	---	---	0.04	0.01	---	4,200	9.59	3.34	0.004	0.688	0.4%	70%	85%	0.00	0.28	0.2%	54%
7-Mar	10.7	0.26	0.26	0.00	0.00	2.50	0.29		1,100	---	0.01	<0.01	---	4,200			-0.001	0.687	-0.1%			0.00	0.28	0.0%	
7-Mar	11.1	0.47	0.47	---	---	---		37	---	---	0.05	0.01	9.62	4,630	10.58	3.46	0.006	0.692	0.6%	70%	85%	0.00	0.29	0.2%	54%
8-Mar	10.5	0.31	0.31	0.00	0.00	1.30	0.34		---	---	<0.01	<0.01	---	4,630			0.000	0.692	0.0%			0.00	0.29	0.0%	
8-Mar	10.8	0.47	0.47	---	---	---		38	---	---	0.03	0.01	---	5,300	12.11	3.60	0.004	0.697	0.4%	71%	86%	0.00	0.29	0.3%	54%
9-Mar	10.9	0.40	0.40	0.00	0.00	0.00	0.34		---	---	<0.01	<0.01	---	5,300			0.000	0.697	0.0%			0.00	0.29	0.0%	
9-Mar	11.0	0.59	0.59	---	---	---		39	---	---	0.04	<0.01	---	4,510	10.30	3.71	0.005	0.701	0.5%	71%	86%	0.00	0.29	0.0%	54%
12-Mar	10.6	0.40	0.40	0.00	0.00	0.80	0.31		800	XC-3	<0.01	<0.01	---	4,510			0.000	0.701	0.0%			0.00	0.29	0.0%	
12-Mar	10.6	0.47	0.47	---	---	---		42	---	C-4	0.02	0.01	---	5,050	11.54	3.84	0.003	0.704	0.3%	71%	87%	0.00	0.29	0.2%	55%
13-Mar	10.6	0.35	0.35	0.00	0.00	1.30	0.32		---	---	<0.01	<0.01	---	5,050			0.000	0.704	0.0%			0.00	0.29	0.0%	
13-Mar	10.9	0.36	0.36	---	---	---		43	---	---	0.04	0.02	---	4,980	11.38	3.97	0.005	0.709	0.5%	72%	87%	0.00	0.29	0.5%	55%
14-Mar	10.6	0.30	0.30	0.00	0.00	1.50	0.35		---	---	<0.01	<0.01	---	4,980			0.000	0.709	0.0%			0.00	0.29	0.0%	
14-Mar	10.9	0.44	0.44	---	---	---		44	---	---	<0.01	<0.01	7.85	4,500	10.28	4.08	0.000	0.709	0.0%	72%	87%	0.00	0.29	0.0%	55%
15-Mar	10.8	0.38	0.38	0.00	0.00	1.80	0.39		800	---	0.01	<0.01	---	4,500			-0.001	0.708	-0.1%			0.00	0.29	0.0%	
15-Mar	11.1	0.48	0.48	---	---	---		45	---	---	0.04	0.01	---	4,600	10.51	4.20	0.005	0.712	0.5%	72%	88%	0.00	0.29	0.2%	55%
16-Mar	10.4	0.41	0.41	0.00	0.00	0.00	0.41		---	---	<0.01	<0.01	---	4,600			0.000	0.712	0.0%			0.00	0.29	0.0%	
16-Mar	10.7	0.57	0.57	---	---	---		46	---	---	<0.01	<0.01	---	5,450	12.45	4.34	0.000	0.712	0.0%	72%	88%	0.00	0.29	0.0%	55%
19-Mar	10.5	0.40	0.40	0.00	0.00	0.00	0.38		---	---	<0.01	<0.01	---	5,450			0.000	0.712	0.0%			0.00	0.29	0.0%	
19-Mar	10.4	0.36	0.36	---	---	---		49	---	---	0.01	0.02	---	4,940	11.28	4.47	0.001	0.714	0.1%	72%	88%	0.00	0.29	0.5%	56%
20-Mar	10.3	0.26	0.26	0.00	0.00	1.70	0.38		---	---	<0.01	<0.01	---	4,940			0.000	0.714	0.0%			0.00	0.29	0.0%	

Project:	Eagle Gold																									
Sample Description:	Environmental Composite																									
Test No.:	63313																									
Sample I.D.:	48158																									
Initial Ht., meters:	1.54																									
Crush Size, mm:	9.5																									
Column I.D., meters:	0.152																									

Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56																							
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62																							
Extracted, gms Au/MT:	0.813	gms Ag/MT:	0.32																							
Tail Assay, gms Au/MT:	0.172	gms Ag/MT:	0.21																							
Calculated Head, gms Au/MT:	0.985	gms Ag/MT:	0.53																							
Weight of Sample, kg:	39.20																									
Column Surface Area, square meters:	0.018																									
Cement Addition, grams:	118.86	kg/MT:	3.03																							
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00																							

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
20-Mar	10.4	0.31	0.31	---	---	---		50	---	---	0.04	0.01	---	4,360	9.96	4.58	0.004	0.718	0.5%	73%	88%	0.00	0.30	0.2%	56%
21-Mar	10.5	0.25	0.25	0.00	0.00	2.40	0.44		900	---	<0.01	<0.01	---	4,360			0.000	0.718	0.0%			0.00	0.30	0.0%	
21-Mar	10.8	0.51	0.51	---	---	---		51	---	---	0.02	<0.01	8.27	4,620	10.55	4.70	0.002	0.720	0.2%	73%	89%	0.00	0.30	0.0%	56%
22-Mar	10.6	0.31	0.31	0.00	0.00	1.30	0.48		---	---	<0.01	<0.01	---	4,620			0.000	0.720	0.0%			0.00	0.30	0.0%	
22-Mar	10.9	0.51	0.51	---	---	---		52	---	---	0.03	<0.01	---	5,060	11.56	4.82	0.004	0.724	0.4%	73%	89%	0.00	0.30	0.0%	56%
23-Mar	10.7	0.46	0.46	0.00	0.00	0.00	0.47		---	---	<0.01	<0.01	---	5,060			0.000	0.724	0.0%			0.00	0.30	0.0%	
23-Mar	10.9	0.47	0.47	---	---	---		53	---	---	0.01	<0.01	---	4,540	10.37	4.94	0.001	0.725	0.1%	74%	89%	0.00	0.30	0.0%	56%
26-Mar	10.4	0.30	0.30	0.00	0.00	2.20	0.45		800	---	<0.01	<0.01	---	4,540			0.000	0.725	0.0%			0.00	0.30	0.0%	
26-Mar	10.5	0.47	0.47	---	---	---		56	---	---	<0.01	<0.01	---	4,900	11.19	5.07	0.000	0.725	0.0%	74%	89%	0.00	0.30	0.0%	56%
27-Mar	10.4	0.41	0.41	0.00	0.00	0.00	0.51		---	---	<0.01	<0.01	---	4,900			0.000	0.725	0.0%			0.00	0.30	0.0%	
27-Mar	10.6	0.34	0.34	---	---	---		57	---	---	0.03	0.01	---	4,350	9.94	5.18	0.003	0.729	0.3%	74%	90%	0.00	0.30	0.2%	56%
28-Mar	10.5	0.32	0.32	0.00	0.00	2.20	0.50		1,000	---	<0.01	<0.01	---	4,350			0.000	0.729	0.0%			0.00	0.30	0.0%	
28-Mar	10.6	0.53	0.53	---	---	---		58	---	---	0.01	0.01	8.55	4,860	11.10	5.30	0.001	0.730	0.1%	74%	90%	0.00	0.30	0.2%	56%
29-Mar	10.6	0.45	0.45	0.00	0.00	0.00	0.55		---	---	<0.01	<0.01	---	4,860			0.000	0.730	0.0%			0.00	0.30	0.0%	
29-Mar	10.8	0.48	0.48	---	---	---		59	---	---	0.02	0.01	---	5,010	11.44	5.43	0.003	0.733	0.3%	74%	90%	0.00	0.30	0.2%	57%
30-Mar	10.6	0.40	0.40	0.00	0.00	0.00	0.52		---	---	<0.01	<0.01	---	5,010			0.000	0.733	0.0%			0.00	0.30	0.0%	
30-Mar	10.7	0.58	0.58	---	---	---		60	---	---	0.01	<0.01	---	4,630	10.58	5.55	0.001	0.734	0.1%	74%	90%	0.00	0.30	0.0%	57%
2-Apr	10.4	0.41	0.41	0.00	0.00	0.00	0.51		---	---	<0.01	<0.01	---	4,630			0.000	0.734	0.0%			0.00	0.30	0.0%	
2-Apr	10.3	0.47	0.47	---	---	---		63	---	---	0.01	0.01	---	4,460	10.19	5.66	0.001	0.735	0.1%	75%	90%	0.00	0.30	0.2%	57%
3-Apr	10.2	0.32	0.32	0.00	0.00	1.40	0.50		---	---	<0.01	<0.01	---	4,460			0.000	0.735	0.0%			0.00	0.30	0.0%	
3-Apr	10.4	0.35	0.35	---	---	---		64	---	---	<0.01	0.01	---	4,040	9.23	5.76	0.000	0.735	0.0%	75%	90%	0.00	0.30	0.2%	57%
4-Apr	10.5	0.25	0.25	0.00	0.00	2.70	0.55		1,300	---	<0.01	<0.01	---	4,040			0.000	0.735	0.0%			0.00	0.30	0.0%	
4-Apr	10.7	0.41	0.41	---	---	---		65	---	---	0.02	<0.01	8.83	4,660	10.64	5.88	0.002	0.737	0.2%	75%	91%	0.00	0.30	0.0%	57%
5-Apr	10.5	0.31	0.31	0.00	0.00	1.40	0.61		---	---	<0.01	<0.01	---	4,660			0.000	0.737	0.0%			0.00	0.30	0.0%	
5-Apr	10.7	0.49	0.49	---	---	---		66	---	---	<0.01	<0.01	---	4,920	11.24	6.01	0.000	0.737	0.0%	75%	91%	0.00	0.30	0.0%	57%
6-Apr	10.5	0.42	0.42	0.00	0.00	0.00	0.61		---	---	<0.01	<0.01	---	4,920			0.000	0.737	0.0%			0.00	0.30	0.0%	
6-Apr	10.7	0.63	0.63	---	---	---		67	---	---	<0.01	<0.01	---	4,300	9.82	6.12	0.000	0.737	0.0%	75%	91%	0.00	0.30	0.0%	57%
9-Apr	10.4	0.50	0.50	0.00	0.00	1.00	0.57		1,000	---	<0.01	<0.01	---	4,300			0.000	0.737	0.0%			0.00	0.30	0.0%	
9-Apr	10.4	0.57	0.57	---	---	---		70	---	---	0.01	<0.01	---	5,010	11.44	6.24	0.001	0.739	0.1%	75%	91%	0.00	0.30	0.0%	57%
10-Apr	10.3	0.42	0.42	0.00	0.00	0.00	0.58		---	---	<0.01	<0.01	---	5,010			0.000	0.739	0.0%			0.00	0.30	0.0%	
10-Apr	10.4	0.46	0.46	---	---	---		71	---	---	<0.01	0.01	---	4,500	10.28	6.36	0.000	0.739	0.0%	75%	91%	0.00	0.30	0.2%	57%
11-Apr	10.4	0.35	0.35	0.00	0.00	1.20	0.58		---	---	<0.01	<0.01	---	4,500			0.000	0.739	0.0%			0.00	0.30	0.0%	
11-Apr	10.5	0.44	0.44	---	---	---		72	---	---	<0.01	<0.01	8.65	4,660	10.64	6.48	0.000	0.739	0.0%	75%	91%	0.00	0.30	0.0%	57%
12-Apr	10.6	0.40	0.40	0.00	0.00	0.00	0.61		---	---	<0.01	<0.01	---	4,660			0.000	0.739	0.0%			0.00	0.30	0.0%	
12-Apr	10.6	0.53	0.53	---	---	---		73	---	---	0.02	<0.01	---	4,230	9.66	6.59	0.002	0.741	0.2%	75%	91%	0.00	0.30	0.0%	57%
13-Apr	10.4	0.40	0.40	0.00	0.00	0.00	0.59		---	---	<0.01	<0.01	---	4,230			0.000	0.741	0.0%			0.00	0.30	0.0%	
13-Apr	10.5	0.38	0.38	---	---	---		74	---	---	0.01	<0.01	---	4,410	10.07	6.70	0.001	0.742	0.1%	75%	91%	0.00	0.30	0.0%	57%
16-Apr	10.3	0.27	0.27	0.00	0.00	2.40	0.60		900	---	<0.01	<0.01	---	4,410			0.000	0.742	0.0%			0.00	0.30	0.0%	
16-Apr	10.2	0.33	0.33	---	---	---		77	---	---	<0.01	<0.01	---	4,080	9.32	6.80	0.000	0.742	0.0%	75%	91%	0.00	0.30	0.0%	57%
17-Apr	10.2	0.25	0.25	0.00	0.00	2.60	0.67		1,200	---	<0.01	<0.01	---	4,080			0.000	0.742	0.0%			0.00	0.30	0.0%	
17-Apr	10.4	0.30	0.30	---	---	---		78	---	---	0.03	0.01	---	4,300	9.82	6.91	0.003	0.745	0.3%	76%	92%	0.00	0.30	0.2%	57%
18-Apr	10.3	0.24	0.24	0.00	0.00	2.60	0.73		1,000	---	<0.01	<0.01	---	4,300			0.000	0.745	0.0%			0.00	0.30	0.0%	
18-Apr	10.6	0.71	0.71	---	---	---		79	---	---	<0.01	0.01	8.31	5,250	11.99	7.05	0.000	0.745	0.0%	76%	92%	0.00	0.30	0.3%	58%
19-Apr	10.6	0.55	0.55	0.00	0.00	0.00	0.73		---	---	<0.01	<0.01	---	5,250			0.000	0.745	0.0%			0.00	0.30	0.0%	
19-Apr	10.6	0.63	0.63	---	---	---		80	---	---	0.01	<0.01	---	5,000	11.42	7.17	0.001	0.746	0.1%	76%	92%	0.00	0.30	0.0%	58%
20-Apr	10.7	0.50	0.50	0.00	0.00	0.00	0.67		---	---	<0.01	<0.01	---	5,000			0.000	0.746	0.0%			0.00	0.30	0.0%	
20-Apr	10.7	0.45	0.45	---	---	---		81	---	---	<0.01	<0.01	---	5,050	11.54	7.30	0.000	0.746	0.0%	76%	92%	0.00	0.30	0.0%	58%
23-Apr	10.3	0.28	0.28	0.00	0.00	1.60	0.69		---	---	<0.01	<0.01	---	5,050			0.000	0.746	0.0%			0.00	0.30	0.0%	
23-Apr	10.4	0.43	0.43	---	---	---		84	---	---	<0.01	<0.01	---	5,010	11.44	7.43	0.000	0.746	0.0%	76%	92%	0.00	0.30	0.0%	58%
24-Apr	10.4	0.33	0.33	0.00	0.00	1.40	0.74		---	---	<0.01	<0.01	---	5,010			0.000	0.746	0.0%			0.00	0.30	0.0%	
24-Apr	10.4	0.47	0.47	---	---	---		85	---	---	0.01	<0.01	---	4,310	9.84	7.54	0.001	0.747	0.1%	76%	92%	0.00	0.30	0.0%	58%
25-Apr	10.4	0.40	0.40	0.00	0.00	1.00	0.75		1,000	---	<0.01	<0.01	---	4,310			0.000	0.747	0.0%			0.00	0.30	0.0%	
25-Apr	10.5	0.48	0.48	---	---	---		86	---	---	0.02	<0.01	8.92	4,740	10.83	7.66	0.002	0.750	0.2%	76%	92%	0.00	0.30	0.0%	58%
26-Apr	10.5	0.41	0.41	0.00	0.00	0.00	0.76		---	---	<0.01	<0.01	---	4,740			0.000	0.750	0.0%			0.00	0.30	0.0%	
26-Apr	10.4	0.50	0.50	---	---	---		87	---	---	0.03	<0.01	---	4,840	11.06	7.78	0.004	0.754	0.4%	76%	93%	0.00	0.30	0.0%	58%
27-Apr	10.5	0.40	0.40	0.00	0.00	0.00	0.75		---	---	<0.01	<0.01	---	4,840			0.000	0.754	0.0%			0.00	0.30	0.0%	
27-Apr	10.5	0.40	0.40	---	---	---		88	---	---	0.02	<0.01	---	4,510	10.30	7.90	0.002	0.756	0.2%	77%	93%	0.00	0.30	0.0%	58%
30-Apr	10.3	0.30	0.30	0.00	0.00	2.20	0.75		800	---	<0.01	<0.01	---	4,510			0.000	0.756	0.0%			0.00	0.30	0.0%	
30-Apr	10.2	0.35	0.35	---	---	---		91	---	---	0.02	<0.01	---	4,880	11.15	8.02	0.002	0.758	0.3%	77%	93%	0.00	0.30	0.0%	58%
1-May	10.3	0.25	0.25	0.00	0.00	1.70	0.81		---	---	<0.01	<0.01	---	4,880			0.000	0.758	0.0%			0.00	0.30	0.0%	
1-May	10.4	0.30	0.30	---	---	---		92	---	---	0.03	<0.01	---	4,390	10.03	8.14	0.003	0.762	0.3%	77%	94%	0.00	0.30	0.0%	58%
2-May	10.3	0.24	0.24	0.00	0.00	2.50	0.85		900	---	<0.01	<0.01	---	4,390			0.000	0.762	0.0%			0.00	0.30	0.0%	
2-May	10.4	0.44	0.44	---	---	---		93	---	---	0.01	<0.01	8.04	4,750	10.85	8.26	0.001	0.763	0.1%	77%	94%	0.00	0.30	0.0%	58%
3-May	10.3	0.40	0.40	0.00	0.00	0.00	0.89		---	---	<0.01	<0.01	---	4,750			0.000	0.763	0.0%			0.00	0.30	0.0%	
3-May	10.3	0.51	0.51	---	---	---		94	---	---	0.01	<0.01	---	4,720	10.78	8.38	0.001	0.764	0.1%	78%	94%	0.00	0.30	0.0%	58%
4-May	10.4	0.41	0.41	0.00	0.00	0.00	0.86		---	---	<0.01	<0.01	---	4,720			0.000	0.764	0.0%			0.00	0.30	0.0%	
4-May	10.7	0.46	0.46	---	---	---		95	---	---	0.01	<0.01	---	4,740	10.83	8.50	0.001	0.765	0.1%	78%	94%	0.00	0.30	0.0%	58%
7-May	10.3	0.27	0.27	0.00	0.00	1.60	0.85		---	---	<0.01	<0.01	---	4,740			0.000	0.765	0.0%			0.00	0.30	0.0%	
7-May	10.2	0.38	0.38	---	---	---		98	---	---	0.03	0.01	---	4,610	10.53	8.62	0.004	0.769	0.4%	78%	95%	0.00	0.31	0.2%	58%
8-May	10.3	0.23	0.23	0.00	0.00	1.70	0.90		---	---	<0.01	<0.01	---	4,610			0.000	0.769	0.0%			0.00	0.31	0.0%	
8-May	10.3	0.32	0.32	---	---	---		99	---	---	0.02	<0.01	---	4,160	9.50	8.72	0.002	0.771	0.2%	78%	95%	0.00	0.31	0.0%	58%
9-May	10.1	0.25	0.25	0.00	0.00	2.60	0.94		1,100	---	<0.01	<0.01	---	4,160			0.000	0.771	0.0%			0.00	0.31	0.0%	
9-May	10.2	0.54	0.54	---	---	---		100	---	---	0.02	0.01	8.42	4,260	9.73	8.83	0.002	0.773	0.2%	78%	95%	0.00	0.31	0.2%	58%
10-May	10.3	0.40	0.40	0.00	0.00	1.00	0.97		1,000	---	<0.01	<0.01	---	4,260			0.000	0.773	0.0%			0.00	0.31	0.0%	
10-May	10.3	0.64	0.64	---	---	---		101	---	---	0.02	<0.01	---	4,790	10.94	8.95	0.002	0.776	0.2%	79%	95%	0.00	0.31	0.0%	58%

Project:	Eagle Gold																	Head Screen, gms Au/MT:	1.077		gms Ag/MT:	0.56		
Sample Description:	Environmental Composite																	Head Assay, gms Au/MT:	1.041		gms Ag/MT:	0.62		
Test No.:	63313																	Extracted, gms Au/MT:	0.813		gms Ag/MT:	0.32		
Sample I.D.:	48158																	Tail Assay, gms Au/MT:	0.172		gms Ag/MT:	0.21		
Initial Ht., meters:	1.54																	Calculated Head, gms Au/MT:	0.985		gms Ag/MT:	0.53		
Crush Size, mm:	9.5																	Weight of Sample, kg:	39.20					
Column I.D., meters:	0.152																	Column Surface Area, square meters:	0.018					
																		Cement Addition, grams:	118.86		kg/MT:	3.03		
																		Hydrated Lime Addition, grams:	0.00		kg/MT:	0.00		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
11-May	10.3	0.43	0.43	0.00	0.00	0.00	0.95		---	---	<0.01	<0.01	---	4,790			0.000	0.776	0.0%			0.00	0.31	0.0%	
11-May	10.3	0.46	0.46	---	---	---		102	---	---	0.02	<0.01	---	4,490	10.26	9.07	0.002	0.778	0.2%	79%	96%	0.00	0.31	0.0%	58%
14-May	10.3	0.24	0.24	0.00	0.00	2.40	0.94		800	---	<0.01	<0.01	---	4,490			0.000	0.778	0.0%			0.00	0.31	0.0%	
14-May	10.2	0.38	0.38	---	---	---		105	---	---	<0.01	<0.01	---	5,000	11.42	9.20	0.000	0.778	0.0%	79%	96%	0.00	0.31	0.0%	58%
15-May	10.2	0.30	0.30	0.00	0.00	1.50	1.00		---	---	<0.01	<0.01	---	5,000			0.000	0.778	0.0%			0.00	0.31	0.0%	
15-May	10.3	0.30	0.30	---	---	---		106	---	---	0.03	0.01	---	4,510	10.30	9.31	0.003	0.781	0.4%	79%	96%	0.00	0.31	0.2%	58%
16-May	10.2	0.26	0.26	0.00	0.00	2.30	1.03		800	---	<0.01	<0.01	---	4,510			0.000	0.781	0.0%			0.00	0.31	0.0%	
16-May	10.2	0.57	0.57	---	---	---		107	---	---	0.01	0.01	8.36	4,650	10.62	9.43	0.001	0.783	0.1%	79%	96%	0.00	0.31	0.2%	59%
17-May	10.4	0.40	0.40	0.00	0.00	0.00	1.06		---	---	<0.01	0.01	---	4,650			0.000	0.783	0.0%			0.00	0.31	-0.2%	
17-May	10.2	0.55	0.55	---	---	---		108	---	---	0.01	0.01	---	4,920	11.24	9.55	0.001	0.784	0.1%	80%	96%	0.00	0.31	0.2%	59%
18-May	10.4	0.44	0.44	0.00	0.00	0.00	1.02		---	---	0.01	0.02	---	4,920			-0.001	0.783	-0.1%			0.00	0.31	-0.5%	
18-May	10.2	0.40	0.40	---	---	---		109	---	---	0.02	0.02	---	4,500	10.28	9.67	0.002	0.785	0.2%	80%	96%	0.00	0.31	0.4%	59%
21-May	10.2	0.24	0.24	0.00	0.00	2.40	1.02		800	---	<0.01	<0.01	---	4,500			0.000	0.785	0.0%			0.00	0.31	0.0%	
21-May	10.1	0.31	0.31	---	---	---		112	---	---	<0.01	<0.01	---	5,030	11.49	9.80	0.000	0.785	0.0%	80%	96%	0.00	0.31	0.0%	59%
22-May	10.2	0.22	0.22	0.00	0.00	1.90	1.10		---	---	<0.01	<0.01	---	5,030			0.000	0.785	0.0%			0.00	0.31	0.0%	
22-May	10.3	0.47	0.47	---	---	---		113	---	---	0.01	<0.01	---	4,350	9.94	9.91	0.001	0.786	0.1%	80%	97%	0.00	0.31	0.0%	59%
23-May	10.3	0.35	0.35	0.00	0.00	2.00	1.12		900	---	<0.01	<0.01	---	4,350			0.000	0.786	0.0%			0.00	0.31	0.0%	
23-May	10.2	0.39	0.39	---	---	---		114	---	---	0.02	<0.01	8.40	4,000	9.14	10.01	0.002	0.788	0.2%	80%	97%	0.00	0.31	0.0%	59%
24-May	10.4	0.29	0.29	0.00	0.00	2.50	1.16		1,300	---	<0.01	<0.01	---	4,000			0.000	0.788	0.0%			0.00	0.31	0.0%	
24-May	10.3	0.43	0.43	---	---	---		115	---	---	<0.01	<0.01	---	5,620	12.84	10.15	0.000	0.788	0.0%	80%	97%	0.00	0.31	0.0%	59%
25-May	10.3	0.40	0.40	0.00	0.00	0.00	1.20		---	---	<0.01	<0.01	---	5,620			0.000	0.788	0.0%			0.00	0.31	0.0%	
25-May	10.3	0.58	0.58	---	---	---		116	---	---	0.01	<0.01	---	5,020	11.47	10.28	0.001	0.789	0.1%	80%	97%	0.00	0.31	0.0%	59%
29-May	10.2	0.26	0.26	0.00	0.00	1.70	1.15		---	---	<0.01	<0.01	---	5,020			0.000	0.789	0.0%			0.00	0.31	0.0%	
29-May	10.2	0.40	0.40	---	---	---		120	---	---	0.10	<0.01	---	5,710	13.04	10.43	0.015	0.804	1.5%	82%	99%	0.00	0.31	0.0%	59%
30-May	10.2	0.40	0.40	0.00	0.00	0.00	1.20		---	---	<0.01	<0.01	---	5,710			0.000	0.804	0.0%			0.00	0.31	0.0%	
30-May	10.2	0.34	0.34	---	---	---		121	---	---	<0.01	<0.01	9.05	4,020	9.18	10.53	0.000	0.804	0.0%	82%	99%	0.00	0.31	0.0%	59%
31-May	10.1	0.28	0.28	0.00	0.00	2.60	1.19		1,300	---	<0.01	<0.01	---	4,020			0.000	0.804	0.0%			0.00	0.31	0.0%	
31-May	10.2	0.47	0.47	---	---	---		122	---	---	<0.01	0.01	---	5,200	11.88	10.66	0.000	0.804	0.0%	82%	99%	0.00	0.31	0.3%	59%
1-Jun	10.2	0.40	0.40	0.00	0.00	0.00	1.26		---	---	<0.01	<0.01	---	5,200			0.000	0.804	0.0%			0.00	0.31	0.0%	
1-Jun	10.2	0.37	0.37	---	---	---		123	---	---	0.01	<0.01	---	5,130	11.72	10.79	0.001	0.805	0.1%	82%	99%	0.00	0.31	0.0%	59%
4-Jun	10.1	0.24	0.24	0.00	0.00	1.90	1.24		---	---	<0.01	<0.01	---	5,130			0.000	0.805	0.0%			0.00	0.31	0.0%	
4-Jun	10.2	0.40	0.40	---	---	---		126	---	---	0.03	0.01	---	4,810	10.99	10.92	0.004	0.809	0.4%	82%	99%	0.00	0.31	0.2%	59%
5-Jun	10.3	0.28	0.28	0.00	0.00	1.50	1.29		---	---	0.02	<0.01	---	4,810			-0.002	0.806	-0.2%			0.00	0.31	0.0%	
5-Jun	10.2	0.42	0.42	---	---	---		127	---	---	<0.01	<0.01	---	4,840	11.06	11.04	0.000	0.806	0.0%	82%	99%	0.00	0.31	0.0%	59%
6-Jun	10.2	0.33	0.33	0.00	0.00	1.30	1.30		---	---	<0.01	<0.01	---	4,840			0.000	0.806	0.0%			0.00	0.31	0.0%	
6-Jun	10.1	0.33	0.33	---	---	---		128	---	---	0.01	<0.01	8.30	4,960	11.33	11.17	0.001	0.808	0.1%	82%	99%	0.00	0.31	0.0%	59%
7-Jun	10.2	0.28	0.28	0.00	0.00	1.60	1.33		---	---	<0.01	<0.01	---	4,960			0.000	0.808	0.0%			0.00	0.31	0.0%	
7-Jun	10.2	0.47	0.47	---	---	---		129	---	---	<0.01	0.01	---	3,640	8.31	11.26	0.000	0.808	0.0%	82%	99%	0.00	0.31	0.2%	59%
8-Jun	10.3	0.36	0.36	0.00	0.00	2.60	1.37		1,700	---	<0.01	<0.01	---	3,640			0.000	0.808	0.0%			0.00	0.31	0.0%	
8-Jun	10.2	0.48	0.48	---	---	---		130	---	---	0.02	0.01	8.88	5,060	11.56	11.39	0.003	0.810	0.3%	82%	100%	0.00	0.31	0.2%	59%
11-Jun	10.4	0.30	0.30	0.00	0.00	0.00	1.41		---	---	<0.01	<0.01	---	5,060			0.000	0.810	0.0%			0.00	0.31	0.0%	
11-Jun	10.2	0.59	0.59	---	---	---		133	---	---	<0.01	0.01	---	5,450	12.45	11.53	0.000	0.810	0.0%	82%	100%	0.00	0.32	0.3%	60%
12-Jun	10.4	0.47	0.47	0.00	0.00	0.00	1.36		---	---	<0.01	0.01	---	5,450			0.000	0.810	0.0%			0.00	0.31	-0.3%	
12-Jun	10.3	0.30	0.30	---	---	---		134	---	---	0.03	0.01	---	4,110	9.39	11.63	0.003	0.813	0.3%	83%	100%	0.00	0.31	0.2%	60%
13-Jun	10.2	0.26	0.26	0.00	0.00	0.00	1.36		1,200	---	<0.01	<0.01	---	4,110			0.000	0.813	0.0%			0.00	0.31	0.0%	
13-Jun	10.2	0.28	0.28	---	---	---		135	---	---	0.02	0.01	9.28	4,900	11.19	11.76	0.003	0.816	0.3%	83%	100%	0.00	0.32	0.2%	60%
14-Jun	10.1	0.22	0.22	0.00	0.00	0.00	1.39		---	---	0.02	<0.01	---	4,900			-0.003	0.813	-0.3%			0.00	0.32	0.0%	
14-Jun	10.1	0.25	0.25	---	---	---		136	---	---	0.01	<0.01	---	5,150	11.76	11.89	0.001	0.815	0.1%	83%	100%	0.00	0.32	0.0%	60%
15-Jun	10.1	0.18	0.18	0.00	0.00	0.00	1.39		---	---	<0.01	<0.01	---	5,150			0.000	0.815	0.0%			0.00	0.32	0.0%	
15-Jun	10.0	0.19	0.19	---	---	---		137	---	---	<0.01	0.01	---	4,920	11.24	12.01	0.000	0.815	0.0%	83%	100%	0.00	0.32	0.2%	60%
18-Jun	9.9	0.10	0.10	0.00	0.00	0.00	1.39		---	---	<0.01	0.01	---	4,920			0.000	0.815	0.0%			0.00	0.32	-0.2%	
18-Jun	10.0	0.16	0.16	---	---	---		140	---	---	<0.01	0.01	---	5,070	11.58	12.14	0.000	0.815	0.0%	83%	100%	0.00	0.32	0.2%	60%
19-Jun	9.9	0.11	0.11	0.00	0.00	0.00	1.39		---	---	<0.01	0.01	---	5,070			0.000	0.815	0.0%			0.00	0.32	-0.2%	
19-Jun	10.1	0.11	0.11	---	---	---		141	---	---	<0.01	0.02	---	4,140	9.46	12.25	0.000	0.815	0.0%	83%	100%	0.00	0.32	0.4%	60%
20-Jun	9.9	0.07	0.07	0.00	0.00	0.00	1.39		1,200	---	<0.01	0.02	---	4,140			0.000	0.815	0.0%			0.00	0.32	-0.4%	
20-Jun	9.9	0.08	0.08	---	---	---		142	---	---	<0.01	0.02	7.64	4,570	10.44	12.37	0.000	0.815	0.0%	83%	100%	0.00	0.32	0.4%	60%
21-Jun	9.8	0.07	0.07	0.00	0.00	0.00	1.40		---	---	<0.01	0.01	---	4,570			0.000	0.815	0.0%			0.00	0.32	-0.2%	
21-Jun	10.0	0.08	0.08	---	---	---		143	---	---	<0.01	0.01	---	4,970	11.35	12.49	0.000	0.815	0.0%	83%	100%	0.00	0.32	0.2%	60%
22-Jun	9.9	0.06	0.06	0.00	0.00	0.00	1.40		---	XC-4	0.01	<0.01	---	4,970			-0.001	0.813	-0.1%			0.00	0.32	0.0%	

Project:	Eagle Gold																	Head Screen, gms Au/MT:	1.077		gms Ag/MT:	0.56		
Sample Description:	Environmental Composite																	Head Assay, gms Au/MT:	1.041		gms Ag/MT:	0.62		
Test No.:	63316																	Extracted, gms Au/MT:	0.731		gms Ag/MT:	0.30		
Sample I.D.:	48158																	Tail Assay, gms Au/MT:	0.165		gms Ag/MT:	0.19		
Initial Ht., meters:	1.52																	Calculated Head, gms Au/MT:	0.896		gms Ag/MT:	0.49		
Crush Size, mm:	9.5																	Est. Weight of Sample, kg:	39.28					
Column I.D., meters:	0.152																	Column Surface Area, square meters:	0.018					
																		Cement Addition, grams:	118.86		kg/MT:	3.03		
																		Hydrated Lime Addition, grams:	0.00		kg/MT:	0.00		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
30-Jan	---	---	---	0.00	0.00	6.88	0.00		6,884	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
30-Jan	---	---	---	---	---	---		0	---	---	---	---	---	---	0.00	0.00	0.000	0.000	0.0%	0%	0%	0.00	0.00	0.0%	0%
31-Jan	---	---	---	0.00	0.00	5.30	0.18		5,300	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
31-Jan	11.9	0.63	0.63	---	---	---		1	---	C-1	1.63	1.00	10.90	4,580	10.46	0.12	0.190	0.190	21.2%	21%	26%	0.12	0.12	23.9%	24%
1-Feb	11.4	0.50	0.50	0.00	0.00	0.00	0.24		---	---	0.01	<0.01	---	4,580			-0.001	0.189	-0.1%			0.00	0.12	0.0%	
1-Feb	11.8	0.68	0.68	---	---	---		2	---	---	0.75	0.37	7.83	5,420	12.38	0.25	0.103	0.292	11.5%	33%	40%	0.05	0.17	10.4%	34%
2-Feb	11.6	0.54	0.54	0.00	0.00	0.00	0.14		---	---	<0.01	0.01	---	5,420			0.000	0.292	0.0%			0.00	0.17	-0.3%	
2-Feb	11.5	1.05	1.05	---	---	---		3	---	---	0.56	0.23	7.80	4,180	9.55	0.36	0.060	0.352	6.6%	39%	48%	0.02	0.19	5.0%	39%
3-Feb	11.5	1.05	1.05	0.00	0.00	1.10	0.09		1,100	---	0.01	0.01	---	4,180			-0.001	0.351	-0.1%			0.00	0.19	-0.2%	
3-Feb	12.0	0.65	0.65	---	---	---		4	---	---	0.33	0.13	---	4,880	11.15	0.49	0.041	0.392	4.6%	44%	54%	0.02	0.21	3.3%	42%
4-Feb	11.7	0.58	0.58	0.00	0.00	0.00	0.11		---	---	<0.01	0.02	---	4,880			0.000	0.392	0.0%			0.00	0.20	-0.5%	
4-Feb	11.9	0.98	0.98	---	---	---		5	---	---	0.24	0.08	---	4,900	11.19	0.61	0.030	0.422	3.3%	47%	58%	0.01	0.21	2.0%	44%
5-Feb	11.8	0.65	0.65	0.00	0.00	0.00	0.10		---	---	<0.01	0.02	---	4,900			0.000	0.422	0.0%			0.00	0.21	-0.5%	
5-Feb	11.9	0.71	0.71	---	---	---		6	---	---	0.10	0.05	---	5,460	12.47	0.75	0.014	0.436	1.6%	49%	60%	0.01	0.22	1.4%	45%
6-Feb	11.6	0.68	0.68	0.00	0.00	0.00	0.07		---	---	<0.01	<0.01	---	5,460			0.000	0.436	0.0%			0.00	0.22	0.0%	
6-Feb	11.7	0.68	0.68	---	---	---		7	---	---	0.15	0.05	---	4,320	9.87	0.86	0.016	0.452	1.8%	50%	62%	0.01	0.22	1.1%	46%
7-Feb	11.3	0.60	0.60	0.00	0.00	1.00	0.07		1,000	XC-1	<0.01	<0.01	---	4,320			0.000	0.452	0.0%			0.00	0.22	0.0%	
7-Feb	11.6	0.64	0.64	---	---	---		8	---	C-2	0.13	0.03	---	5,380	12.29	1.00	0.018	0.470	2.0%	52%	64%	0.00	0.23	0.8%	47%
8-Feb	11.3	0.57	0.57	0.00	0.00	0.00	0.10		---	---	<0.01	0.01	---	5,380			0.000	0.470	0.0%			0.00	0.23	-0.3%	
8-Feb	11.7	0.68	0.68	---	---	---		9	---	---	0.07	0.04	8.57	5,540	12.65	1.14	0.010	0.480	1.1%	54%	66%	0.01	0.23	1.2%	47%
9-Feb	11.2	0.56	0.56	0.00	0.00	0.00	0.07		---	---	<0.01	<0.01	---	5,540			0.000	0.480	0.0%			0.00	0.23	0.0%	
9-Feb	11.5	0.60	0.60	---	---	---		10	---	---	0.08	0.03	---	5,000	11.42	1.26	0.010	0.490	1.1%	55%	67%	0.00	0.24	0.8%	48%
10-Feb	11.3	0.50	0.50	0.00	0.00	0.00	0.07		---	---	<0.01	<0.01	---	5,000			0.000	0.490	0.0%			0.00	0.24	0.0%	
10-Feb	11.5	0.60	0.60	---	---	---		11	---	---	0.07	0.01	---	5,460	12.47	1.40	0.010	0.500	1.1%	56%	68%	0.00	0.24	0.3%	48%
13-Feb	10.8	0.42	0.42	0.00	0.00	0.00	0.07		---	---	<0.01	<0.01	---	5,460			0.000	0.500	0.0%			0.00	0.24	0.0%	
13-Feb	11.4	0.54	0.54	---	---	---		14	---	---	0.06	0.01	---	4,820	11.01	1.53	0.007	0.507	0.8%	57%	69%	0.00	0.24	0.3%	49%
14-Feb	10.9	0.44	0.44	0.00	0.00	0.00	0.07		---	---	<0.01	<0.01	---	4,820			0.000	0.507	0.0%			0.00	0.24	0.0%	
14-Feb	11.4	0.46	0.46	---	---	---		15	---	---	0.12	0.02	---	5,060	11.56	1.65	0.015	0.523	1.7%	58%	71%	0.00	0.24	0.5%	49%
15-Feb	11.1	0.40	0.40	0.00	0.00	0.00	0.06		---	---	<0.01	<0.01	---	5,060			0.000	0.523	0.0%			0.00	0.24	0.0%	
15-Feb	11.4	0.47	0.47	---	---	---		16	---	---	0.04	0.01	9.82	4,500	10.28	1.77	0.005	0.527	0.5%	59%	72%	0.00	0.24	0.2%	49%
16-Feb	10.7	0.40	0.40	0.00	0.00	0.80	0.06		800	---	0.01	<0.01	---	4,500			-0.001	0.526	-0.1%			0.00	0.24	0.0%	
16-Feb	11.2	0.42	0.42	---	---	---		17	---	---	0.06	0.01	---	4,650	10.62	1.89	0.007	0.533	0.8%	59%	73%	0.00	0.24	0.2%	50%
17-Feb	11.2	0.40	0.40	0.00	0.00	0.00	0.08		---	---	<0.01	<0.01	---	4,650			0.000	0.533	0.0%			0.00	0.24	0.0%	
17-Feb	11.4	0.47	0.47	---	---	---		18	---	---	0.04	0.01	---	4,740	10.83	2.01	0.005	0.538	0.5%	60%	74%	0.00	0.24	0.2%	50%
21-Feb	10.3	0.35	0.35	0.00	0.00	1.20	0.07		---	XC-2	0.03	<0.01	---	4,740			-0.004	0.534	-0.4%			0.00	0.24	0.0%	
21-Feb	10.2	0.37	0.37	---	---	---		22	---	C-3	0.05	<0.01	---	4,960	11.33	2.13	0.006	0.541	0.7%	60%	74%	0.00	0.24	0.0%	50%
22-Feb	10.2	0.21	0.21	0.00	0.00	1.90	0.10		---	---	<0.01	<0.01	---	4,960			0.000	0.541	0.0%			0.00	0.24	0.0%	
22-Feb	11.2	0.49	0.49	---	---	---		23	---	---	0.08	0.02	12.00	4,200	9.59	2.24	0.009	0.549	1.0%	61%	75%	0.00	0.25	0.4%	50%
23-Feb	10.5	0.40	0.40	0.00	0.00	1.10	0.14		1,100	---	<0.01	<0.01	---	4,200			0.000	0.549	0.0%			0.00	0.25	0.0%	
23-Feb	11.0	0.45	0.45	---	---	---		24	---	---	0.06	0.01	---	4,450	10.16	2.35	0.007	0.556	0.8%	62%	76%	0.00	0.25	0.2%	51%
24-Feb	10.6	0.45	0.45	0.00	0.00	0.00	0.14		---	---	<0.01	<0.01	---	4,450			0.000	0.556	0.0%			0.00	0.25	0.0%	
24-Feb	10.8	0.46	0.46	---	---	---		25	---	---	0.06	<0.01	---	5,070	11.58	2.48	0.008	0.564	0.9%	63%	77%	0.00	0.25	0.0%	51%
27-Feb	10.4	0.30	0.30	0.00	0.00	1.50	0.13		---	---	<0.01	<0.01	---	5,070			0.000	0.564	0.0%			0.00	0.25	0.0%	
27-Feb	10.7	0.39	0.39	---	---	---		28	---	---	0.04	<0.01	---	4,370	9.98	2.60	0.004	0.568	0.5%	63%	78%	0.00	0.25	0.0%	51%
28-Feb	10.2	0.40	0.40	0.00	0.00	0.90	0.17		900	---	<0.01	<0.01	---	4,370			0.000	0.568	0.0%			0.00	0.25	0.0%	
28-Feb	10.8	0.38	0.38	---	---	---		29	---	---	0.06	0.01	---	4,420	10.10	2.71	0.007	0.575	0.8%	64%	79%	0.00	0.25	0.2%	51%
29-Feb	10.5	0.36	0.36	0.00	0.00	2.00	0.19		900	---	<0.01	<0.01	---	4,420			0.000	0.575	0.0%			0.00	0.25	0.0%	
29-Feb	10.9	0.50	0.50	---	---	---		30	---	---	0.04	<0.01	10.20	4,940	11.28	2.83	0.005	0.580	0.6%	65%	79%	0.00	0.25	0.0%	51%
1-Mar	10.9	0.41	0.41	0.00	0.00	0.00	0.22		---	---	<0.01	<0.01	---	4,940			0.000	0.580	0.0%			0.00	0.25	0.0%	
1-Mar	11.0	0.55	0.55	---	---	---		31	---	---	0.03	0.01	---	5,170	11.81	2.97	0.004	0.584	0.4%	65%	80%	0.00	0.25	0.3%	51%
2-Mar	10.8	0.46	0.46	0.00	0.00	0.00	0.19		---	---	<0.01	<0.01	---	5,170			0.000	0.584	0.0%			0.00	0.25	0.0%	
2-Mar	11.1	0.45	0.45	---	---	---		32	---	---	0.04	0.01	---	4,710	10.76	3.09	0.005	0.589	0.5%	66%	80%	0.00	0.25	0.2%	51%
5-Mar	10.3	0.26	0.26	0.00	0.00	1.60	0.19		---	---	0.01	<0.01	---	4,710			-0.001	0.588	-0.1%			0.00	0.25	0.0%	
5-Mar	10.6	0.45	0.45	---	---	---		35	---	---	0.05	0.01	---	5,100	11.65	3.21	0.006	0.594	0.7%	66%	81%	0.00	0.25	0.3%	52%
6-Mar	10.4	0.31	0.31	0.00	0.00	1.50	0.23		---	---	0.01	<0.01	---	5,100			-0.001	0.593	-0.1%			0.00	0.25	0.0%	
6-Mar	10.6	0.44	0.44	---	---	---		36	---	---	0.04	0.01	---	4,170	9.53	3.32	0.004	0.597	0.5%	67%	82%	0.00	0.25	0.2%	52%
7-Mar	10.7	0.34	0.34	0.00	0.00	2.20	0.25		1,100	---	<0.01	<0.01	---	4,170			0.000	0.597	0.0%			0.00	0.25	0.0%	
7-Mar	11.0	0.44	0.44	---	---	---		37	---	---	0.05	0.01	8.81	4,650	10.62	3.44	0.006	0.603	0.7%	67%	82%	0.00	0.25	0.2%	52%
8-Mar	10.4	0.40	0.40	0.00	0.00	0.00	0.29		---	---	<0.01	<0.01	---	4,650			0.000	0.603	0.0%			0.00	0.25	0.0%	
8-Mar	10.6	0.66	0.66	---	---	---		38	---	---	0.03	0.01	---	5,070	11.58	3.57	0.004	0.607	0.4%	68%	83%	0.00	0.26	0.3%	52%
9-Mar	10.9	0.48	0.48	0.00	0.00	0.00	0.24		---	---	<0.01	<0.01	---	5,070			0.000	0.607	0.0%			0.00	0.26	0.0%	
9-Mar	11.0	0.46	0.46	---	---	---		39	---	---	0.03	<0.01	---	4,230	9.66	3.68	0.003	0.610	0.4%	68%	83%	0.00	0.26	0.0%	52%
12-Mar	10.5	0.40	0.40	0.00	0.00	1.10	0.24		1,100	XC-3	<0.01	<0.01	---	4,230			0.000	0.610	0.0%			0.00	0.26	0.0%	
12-Mar	10.7	0.42	0.42	---	---	---		42	---	C-4	0.02	0.01	---	5,640	12.88	3.82	0.003	0.613	0.3%	68%	84%	0.00	0.26	0.3%	53%
13-Mar	10.6	0.34	0.34	0.00	0.00	1.50	0.27		---	---	<0.01	<0.01	---	5,640			0.000	0.613	0.0%			0.00	0.26	0.0%	
13-Mar	10.9	0.39	0.39	---	---	---		43	---	---	0.03	0.02	---	4,920	11.24	3.95	0.004	0.617	0.4%	69%	84%	0.00	0.26	0.5%	53%
14-Mar	10.5	0.26	0.26	0.00	0.00	1.70	0.30		---	---	<0.01	<0.01	---	4,920			0.000	0.617	0.0%			0.00	0.26	0.0%	
14-Mar	10.8	0.48	0.48	---	---	---		44	---	---	0.02	0.01	7.40	5,440	12.43	4.08	0.003	0.619	0.3%	69%	85%	0.00	0.26	0.3%	53%
15-Mar	10.8	0.41	0.41	0.00	0.00	0.00	0.33		---	---	<0.01	<0.01	---	5,440			0.000	0.619	0.0%			0.00	0.26	0.0%	
15-Mar	11.1	0.62	0.62	---	---	---		45	---	---	0.01	0.01	---	4,620	10.55	4.20	0.001	0.621	0.1%	69%	85%	0.00	0.26	0.2%	54%
16-Mar	10.6	0.48	0.48	0.00	0.00	0.00	0.29		---	---	<0.01	<0.01	---	4,620			0.000	0.621	0.0%			0.00	0.26	0.0%	
16-Mar	10.6	0.42	0.42	---	---	---		46	---	---	0.01	<0.01	---	5,360	12.24	4.34	0.001	0.622	0.2%	69%	85%	0.00	0.26	0.0%	54%
19-Mar	10.4	0.27	0.27	0.00	0.00	1.80	0.29		---	---	<0.01	<0.01	---	5,360			0.000	0.622	0.0%			0.00	0.26	0.0%	
19-Mar	10.3	0.36	0.36	---	---	---		49	---	---	<0.01	0.01	---	4,530	10.35	4.45	0.000	0.622	0.0%	69%	85%	0.00	0.26	0.2%	54%
20-Mar	10.2	0.30	0.30	0.00	0.00	2.20	0.35		800	---	<0.01	<0.01	---	4,530			0.000	0.622	0.0%			0.00	0.26	0.0%	

Project:	Eagle Gold																									
Sample Description:	Environmental Composite																									
Test No.:	63316																									
Sample I.D.:	48158																									
Initial Ht., meters:	1.52																									
Crush Size, mm:	9.5																									
Column I.D., meters:	0.152																									

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
20-Mar	10.4	0.56	0.56	---	---	---		50	---	---	0.06	0.02	---	4,500	10.28	4.57	0.007	0.629	0.8%	70%	86%	0.00	0.27	0.5%	54%
21-Mar	10.6	0.44	0.44	0.00	0.00	0.80	0.37		800	---	<0.01	<0.01	---	4,500			0.000	0.629	0.0%			0.00	0.27	0.0%	
21-Mar	10.9	0.46	0.46	---	---	---		51	---	---	0.03	0.01	7.87	5,370	12.27	4.70	0.004	0.633	0.5%	71%	87%	0.00	0.27	0.3%	55%
22-Mar	10.7	0.40	0.40	0.00	0.00	0.00	0.36		---	---	<0.01	<0.01	---	5,370			0.000	0.633	0.0%			0.00	0.27	0.0%	
22-Mar	10.9	0.51	0.51	---	---	---		52	---	---	0.01	0.01	---	5,050	11.54	4.83	0.001	0.634	0.1%	71%	87%	0.00	0.27	0.3%	55%
23-Mar	10.8	0.42	0.42	0.00	0.00	0.00	0.35		---	---	<0.01	<0.01	---	5,050			0.000	0.634	0.0%			0.00	0.27	0.0%	
23-Mar	10.9	0.40	0.40	---	---	---		53	---	---	0.02	<0.01	---	5,050	11.54	4.96	0.003	0.637	0.3%	71%	87%	0.00	0.27	0.0%	55%
26-Mar	10.4	0.28	0.28	0.00	0.00	1.60	0.35		---	---	<0.01	<0.01	---	5,050			0.000	0.637	0.0%			0.00	0.27	0.0%	
26-Mar	10.5	0.41	0.41	---	---	---		56	---	---	0.01	<0.01	---	4,870	11.12	5.09	0.001	0.638	0.1%	71%	87%	0.00	0.27	0.0%	55%
27-Mar	10.5	0.26	0.26	0.00	0.00	1.70	0.40		---	---	<0.01	<0.01	---	4,870			0.000	0.638	0.0%			0.00	0.27	0.0%	
27-Mar	10.7	0.43	0.43	---	---	---		57	---	---	0.03	0.01	---	4,140	9.46	5.19	0.003	0.641	0.4%	72%	88%	0.00	0.27	0.2%	55%
28-Mar	10.5	0.28	0.28	0.00	0.00	2.50	0.43		1,200	---	<0.01	<0.01	---	4,140			0.000	0.641	0.0%			0.00	0.27	0.0%	
28-Mar	10.7	0.48	0.48	---	---	---		58	---	---	0.03	0.01	8.14	4,460	10.19	5.30	0.003	0.645	0.4%	72%	88%	0.00	0.27	0.2%	55%
29-Mar	10.6	0.40	0.40	0.00	0.00	0.80	0.47		800	---	<0.01	<0.01	---	4,460			0.000	0.645	0.0%			0.00	0.27	0.0%	
29-Mar	10.7	0.62	0.62	---	---	---		59	---	---	0.03	0.01	---	5,000	11.42	5.43	0.004	0.648	0.4%	72%	89%	0.00	0.27	0.3%	56%
30-Mar	10.7	0.52	0.52	0.00	0.00	0.00	0.44		---	---	<0.01	<0.01	---	5,000			0.000	0.648	0.0%			0.00	0.27	0.0%	
30-Mar	10.7	0.52	0.52	---	---	---		60	---	---	0.03	<0.01	---	4,980	11.38	5.56	0.004	0.652	0.4%	73%	89%	0.00	0.27	0.0%	56%
2-Apr	10.3	0.41	0.41	0.00	0.00	0.00	0.42		---	---	<0.01	<0.01	---	4,980			0.000	0.652	0.0%			0.00	0.27	0.0%	
2-Apr	10.3	0.43	0.43	---	---	---		63	---	---	0.02	0.01	---	4,560	10.42	5.67	0.002	0.655	0.3%	73%	89%	0.00	0.27	0.2%	56%
3-Apr	10.3	0.30	0.30	0.00	0.00	1.40	0.43		---	---	<0.01	<0.01	---	4,560			0.000	0.655	0.0%			0.00	0.27	0.0%	
3-Apr	10.4	0.36	0.36	---	---	---		64	---	---	0.02	0.01	---	4,850	11.08	5.80	0.002	0.657	0.3%	73%	90%	0.00	0.27	0.3%	56%
4-Apr	10.5	0.25	0.25	0.00	0.00	1.70	0.48		---	---	<0.01	<0.01	---	4,850			0.000	0.657	0.0%			0.00	0.27	0.0%	
4-Apr	10.6	0.29	0.29	---	---	---		65	---	---	0.02	<0.01	8.28	4,100	9.37	5.90	0.002	0.659	0.2%	74%	90%	0.00	0.27	0.0%	56%
5-Apr	10.5	0.32	0.32	0.00	0.00	2.40	0.52		1,200	---	<0.01	<0.01	---	4,100			0.000	0.659	0.0%			0.00	0.27	0.0%	
5-Apr	10.6	0.56	0.56	---	---	---		66	---	---	<0.01	<0.01	---	5,010	11.44	6.03	0.000	0.659	0.0%	74%	90%	0.00	0.27	0.0%	56%
6-Apr	10.5	0.42	0.42	0.00	0.00	0.00	0.54		---	---	<0.01	<0.01	---	5,010			0.000	0.659	0.0%			0.00	0.27	0.0%	
6-Apr	10.6	0.51	0.51	---	---	---		67	---	---	<0.01	<0.01	---	4,740	10.83	6.15	0.000	0.659	0.0%	74%	90%	0.00	0.27	0.0%	56%
9-Apr	10.4	0.41	0.41	0.00	0.00	0.00	0.51		---	---	<0.01	<0.01	---	4,740			0.000	0.659	0.0%			0.00	0.27	0.0%	
9-Apr	10.4	0.52	0.52	---	---	---		70	---	---	0.02	<0.01	---	4,920	11.24	6.28	0.003	0.662	0.3%	74%	90%	0.00	0.27	0.0%	56%
10-Apr	10.4	0.35	0.35	0.00	0.00	1.20	0.50		---	---	<0.01	<0.01	---	4,920			0.000	0.662	0.0%			0.00	0.27	0.0%	
10-Apr	10.5	0.31	0.31	---	---	---		71	---	---	0.03	0.01	---	4,210	9.62	6.38	0.003	0.665	0.4%	74%	91%	0.00	0.28	0.2%	56%
11-Apr	10.4	0.24	0.24	0.00	0.00	2.60	0.55		1,100	---	<0.01	<0.01	---	4,210			0.000	0.665	0.0%			0.00	0.28	0.0%	
11-Apr	10.5	0.42	0.42	---	---	---		72	---	---	0.01	<0.01	8.62	4,560	10.42	6.50	0.001	0.666	0.1%	74%	91%	0.00	0.28	0.0%	56%
12-Apr	10.6	0.40	0.40	0.00	0.00	0.00	0.61		---	---	<0.01	<0.01	---	4,560			0.000	0.666	0.0%			0.00	0.28	0.0%	
12-Apr	10.3	0.40	0.40	---	---	---		73	---	---	0.03	<0.01	---	4,900	11.19	6.62	0.004	0.670	0.4%	75%	92%	0.00	0.28	0.0%	56%
13-Apr	10.5	0.40	0.40	0.00	0.00	0.00	0.58		---	---	<0.01	<0.01	---	4,900			0.000	0.670	0.0%			0.00	0.28	0.0%	
13-Apr	10.4	0.38	0.38	---	---	---		74	---	---	0.02	<0.01	---	4,780	10.92	6.75	0.002	0.672	0.3%	75%	92%	0.00	0.28	0.0%	56%
16-Apr	10.3	0.28	0.28	0.00	0.00	1.50	0.58		---	---	<0.01	<0.01	---	4,780			0.000	0.672	0.0%			0.00	0.28	0.0%	
16-Apr	10.2	0.40	0.40	---	---	---		77	---	---	0.02	<0.01	---	4,840	11.06	6.87	0.002	0.675	0.3%	75%	92%	0.00	0.28	0.0%	56%
17-Apr	10.3	0.28	0.28	0.00	0.00	1.60	0.62		---	---	<0.01	<0.01	---	4,840			0.000	0.675	0.0%			0.00	0.28	0.0%	
17-Apr	10.4	0.45	0.45	---	---	---		78	---	---	0.04	<0.01	---	4,130	9.43	6.97	0.004	0.679	0.5%	76%	93%	0.00	0.28	0.0%	56%
18-Apr	10.5	0.40	0.40	0.00	0.00	1.20	0.65		1,200	---	<0.01	<0.01	---	4,130			0.000	0.679	0.0%			0.00	0.28	0.0%	
18-Apr	10.5	0.51	0.51	---	---	---		79	---	---	0.01	<0.01	9.02	4,520	10.32	7.09	0.001	0.680	0.1%	76%	93%	0.00	0.28	0.0%	56%
19-Apr	10.5	0.40	0.40	0.00	0.00	0.80	0.66		800	---	<0.01	<0.01	---	4,520			0.000	0.680	0.0%			0.00	0.28	0.0%	
19-Apr	10.5	0.47	0.47	---	---	---		80	---	---	0.05	<0.01	---	4,830	11.03	7.21	0.006	0.686	0.7%	77%	94%	0.00	0.28	0.0%	56%
20-Apr	10.5	0.40	0.40	0.00	0.00	0.00	0.66		---	---	<0.01	<0.01	---	4,830			0.000	0.686	0.0%			0.00	0.28	0.0%	
20-Apr	10.6	0.42	0.42	---	---	---		81	---	---	<0.01	<0.01	---	4,870	11.12	7.34	0.000	0.686	0.0%	77%	94%	0.00	0.28	0.0%	56%
23-Apr	10.2	0.22	0.22	0.00	0.00	1.90	0.65		---	---	<0.01	<0.01	---	4,870			0.000	0.686	0.0%			0.00	0.28	0.0%	
23-Apr	10.3	0.29	0.29	---	---	---		84	---	---	<0.01	0.01	---	4,770	10.90	7.46	0.000	0.686	0.0%	77%	94%	0.00	0.28	0.2%	57%
24-Apr	10.2	0.20	0.20	0.00	0.00	1.90	0.71		---	---	<0.01	<0.01	---	4,770			0.000	0.686	0.0%			0.00	0.28	0.0%	
24-Apr	10.3	0.43	0.43	---	---	---		85	---	---	<0.01	0.01	---	3,620	8.27	7.55	0.000	0.686	0.0%	77%	94%	0.00	0.28	0.2%	57%
25-Apr	10.4	0.32	0.32	0.00	0.00	2.70	0.75		1,700	---	<0.01	<0.01	---	3,620			0.000	0.686	0.0%			0.00	0.28	0.0%	
25-Apr	10.4	0.54	0.54	---	---	---		86	---	---	<0.01	<0.01	8.42	5,270	12.04	7.68	0.000	0.686	0.0%	77%	94%	0.00	0.28	0.0%	57%
26-Apr	10.4	0.40	0.40	0.00	0.00	0.00	0.77		---	---	<0.01	<0.01	---	5,270			0.000	0.686	0.0%			0.00	0.28	0.0%	
26-Apr	10.4	0.51	0.51	---	---	---		87	---	---	0.02	0.01	---	4,780	10.92	7.81	0.002	0.689	0.3%	77%	94%	0.00	0.28	0.2%	57%
27-Apr	10.5	0.41	0.41	0.00	0.00	0.00	0.74		---	---	<0.01	<0.01	---	4,780			0.000	0.689	0.0%			0.00	0.28	0.0%	
27-Apr	10.4	0.45	0.45	---	---	---		88	---	---	0.02	0.01	---	5,060	11.56	7.93	0.003	0.691	0.3%	77%	94%	0.00	0.28	0.3%	57%
30-Apr	10.3	0.27	0.27	0.00	0.00	1.70	0.73		---	---	<0.01	<0.01	---	5,060			0.000	0.691	0.0%			0.00	0.28	0.0%	
30-Apr	10.2	0.37	0.37	---	---	---		91	---	---	<0.01	<0.01	---	4,840	11.06	8.06	0.000	0.691	0.0%	77%	94%	0.00	0.28	0.0%	57%
1-May	10.3	0.24	0.24	0.00	0.00	1.70	0.78		---	---	<0.01	<0.01	---	4,840			0.000	0.691	0.0%			0.00	0.28	0.0%	
1-May	10.4	0.38	0.38	---	---	---		92	---	---	0.02	<0.01	---	3,790	8.66	8.15	0.002	0.693	0.2%	77%	95%	0.00	0.28	0.0%	57%
2-May	10.3	0.24	0.24	0.00	0.00	2.90	0.82		1,500	---	<0.01	<0.01	---	3,790			0.000	0.693	0.0%			0.00	0.28	0.0%	
2-May	10.3	0.48	0.48	---	---	---		93	---	---	<0.01	<0.01	8.05	5,100	11.65	8.28	0.000	0.693	0.0%	77%	95%	0.00	0.28	0.0%	57%
3-May	10.3	0.40	0.40	0.00	0.00	0.00	0.86		---	---	<0.01	<0.01	---	5,100			0.000	0.693	0.0%			0.00	0.28	0.0%	
3-May	10.3	0.50	0.50	---	---	---		94	---	---	0.01	<0.01	---	4,000	9.14	8.39	0.001	0.694	0.1%	77%	95%	0.00	0.28	0.0%	57%
4-May	10.4	0.40	0.40	0.00	0.00	0.00	0.83		---	---	<0.01	<0.01	---	4,000			0.000	0.694	0.0%			0.00	0.28	0.0%	
4-May	10.4	0.45	0.45	---	---	---		95	---	---	<0.01	<0.01	---	5,590	12.77	8.53	0.000	0.694	0.0%	77%	95%	0.00	0.28	0.0%	57%
7-May	10.3	0.32	0.32	0.00	0.00	1.60	0.82		---	---	<0.01	<0.01	---	5,590			0.000	0.694	0.0%			0.00	0.28	0.0%	
7-May	10.2	0.31	0.31	---	---	---		98	---	---	0.03	0.01	---	3,670	8.38	8.62	0.003	0.697	0.3%	78%	95%	0.00	0.28	0.2%	58%
8-May	10.3	0.18	0.18	0.00	0.00	3.10	0.87		1,600	---	<0.01	<0.01	---	3,670			0.000	0.697	0.0%			0.00	0.28	0.0%	
8-May	10.3	0.41	0.41	---	---	---		99	---	---	0.01	<0.01	---	4,680	10.69	8.74	0.001	0.698	0.1%	78%	95%	0.00	0.28	0.0%	58%
9-May	10.2	0.32	0.32	0.00	0.00	1.30	0.95		---	---	<0.01	<0.01	---	4,680			0.000	0.698	0.0%			0.00	0.28	0.0%	
9-May	10.2	0.60	0.60	---	---	---		100	---	---	0.01	<0.01	6.82	5,640	12.88	8.88	0.001	0.700	0.2%	78%	96%	0.00	0.28	0.0%	58%
10-May	10.3	0.46	0.46	0.00	0.00	0.00	0.91		---	---	<0.01	<0.01	---	5,640			0.000	0.700	0.0%			0.00	0.28	0.0%	
10-May	10.3	0.46	0.46	---	---	---		101	---	---	<0.01	<0.01	---	4,320	9.87	8.99	0.000	0.700	0.0%	78%	96%	0.00	0.28	0.0%	58%

Project:	Eagle Gold
Sample Description:	Environmental Composite
Test No.:	63316
Sample I.D.:	48158
Initial Ht., meters:	1.52
Crush Size, mm:	9.5
Column I.D., meters:	0.152

Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62
Extracted, gms Au/MT:	0.731	gms Ag/MT:	0.30
Tail Assay, gms Au/MT:	0.165	gms Ag/MT:	0.19
Calculated Head, gms Au/MT:	0.896	gms Ag/MT:	0.49
Est. Weight of Sample, kg:	39.28		
Column Surface Area, square meters:	0.018		
Cement Addition, grams:	118.86	kg/MT:	3.03
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
11-May	10.3	0.41	0.41	0.00	0.00	0.00	0.90		---	---	<0.01	<0.01	---	4,320			0.000	0.700	0.0%			0.00	0.28	0.0%	
11-May	10.3	0.43	0.43	---	---	---		102	---	---	<0.01	<0.01	---	5,130	11.72	9.12	0.000	0.700	0.0%	78%	96%	0.00	0.28	0.0%	58%
14-May	10.3	0.26	0.26	0.00	0.00	1.70	0.91		---	---	<0.01	<0.01	---	5,130			0.000	0.700	0.0%			0.00	0.28	0.0%	
14-May	10.2	0.33	0.33	---	---	---		105	---	---	0.01	<0.01	---	4,550	10.39	9.24	0.001	0.701	0.1%	78%	96%	0.00	0.28	0.0%	58%
15-May	10.2	0.30	0.30	0.00	0.00	1.40	0.96		---	---	<0.01	<0.01	---	4,550			0.000	0.701	0.0%			0.00	0.28	0.0%	
15-May	10.3	0.46	0.46	---	---	---		106	---	---	0.04	<0.01	---	4,390	10.03	9.35	0.004	0.705	0.5%	79%	96%	0.00	0.28	0.0%	58%
16-May	10.2	0.32	0.32	0.00	0.00	2.10	0.97		900	---	<0.01	<0.01	---	4,390			0.000	0.705	0.0%			0.00	0.28	0.0%	
16-May	10.2	0.53	0.53	---	---	---		107	---	---	0.01	0.01	9.04	4,290	9.80	9.46	0.001	0.706	0.1%	79%	97%	0.00	0.28	0.2%	58%
17-May	10.3	0.36	0.36	0.00	0.00	2.00	1.00		1,000	---	<0.01	<0.01	---	4,290			0.000	0.706	0.0%			0.00	0.28	0.0%	
17-May	10.3	0.46	0.46	---	---	---		108	---	---	0.01	0.01	---	4,850	11.08	9.58	0.001	0.708	0.1%	79%	97%	0.00	0.28	0.3%	58%
18-May	10.3	0.37	0.37	0.00	0.00	1.10	1.03		---	---	<0.01	0.01	---	4,850			0.000	0.708	0.0%			0.00	0.28	-0.3%	
18-May	10.2	0.57	0.57	---	---	---		109	---	---	0.01	0.01	---	4,940	11.28	9.71	0.001	0.709	0.1%	79%	97%	0.00	0.28	0.3%	58%
21-May	10.4	0.37	0.37	0.00	0.00	1.10	1.03		---	---	<0.01	<0.01	---	4,940			0.000	0.709	0.0%			0.00	0.28	0.0%	
21-May	10.2	0.34	0.34	---	---	---		112	---	---	<0.01	<0.01	---	4,820	11.01	9.83	0.000	0.709	0.0%	79%	97%	0.00	0.28	0.0%	58%
22-May	10.2	0.26	0.26	0.00	0.00	1.60	1.06		---	---	0.01	<0.01	---	4,820			-0.001	0.708	-0.1%			0.00	0.28	0.0%	
22-May	10.3	0.53	0.53	---	---	---		113	---	---	0.03	0.01	---	4,200	9.59	9.94	0.003	0.711	0.4%	79%	97%	0.00	0.28	0.2%	58%
23-May	10.3	0.36	0.36	0.00	0.00	2.00	1.09		1,000	---	<0.01	<0.01	---	4,200			0.000	0.711	0.0%			0.00	0.28	0.0%	
23-May	10.2	0.45	0.45	---	---	---		114	---	---	<0.01	<0.01	9.15	4,260	9.73	10.05	0.000	0.711	0.0%	79%	97%	0.00	0.28	0.0%	58%
24-May	10.3	0.36	0.36	0.00	0.00	2.00	1.12		1,000	---	<0.01	<0.01	---	4,260			0.000	0.711	0.0%			0.00	0.28	0.0%	
24-May	10.3	0.48	0.48	---	---	---		115	---	---	<0.01	<0.01	---	5,040	11.51	10.18	0.000	0.711	0.0%	79%	97%	0.00	0.28	0.0%	58%
25-May	10.3	0.41	0.41	0.00	0.00	0.00	1.15		---	---	<0.01	<0.01	---	5,040			0.000	0.711	0.0%			0.00	0.28	0.0%	
25-May	10.3	0.57	0.57	---	---	---		116	---	---	<0.01	<0.01	---	5,030	11.49	10.30	0.000	0.711	0.0%	79%	97%	0.00	0.28	0.0%	58%
29-May	10.2	0.34	0.34	0.00	0.00	1.30	1.11		---	---	<0.01	<0.01	---	5,030			0.000	0.711	0.0%			0.00	0.28	0.0%	
29-May	10.3	0.43	0.43	---	---	---		120	---	---	<0.01	<0.01	---	5,070	11.58	10.43	0.000	0.711	0.0%	79%	97%	0.00	0.28	0.0%	58%
30-May	10.1	0.36	0.36	0.00	0.00	1.20	1.14		---	---	<0.01	<0.01	---	5,070			0.000	0.711	0.0%			0.00	0.28	0.0%	
30-May	10.2	0.43	0.43	---	---	---		121	---	---	0.02	<0.01	9.14	4,120	9.41	10.54	0.002	0.713	0.2%	80%	97%	0.00	0.28	0.0%	58%
31-May	10.2	0.34	0.34	0.00	0.00	2.30	1.17		1,200	---	<0.01	<0.01	---	4,120			0.000	0.713	0.0%			0.00	0.28	0.0%	
31-May	10.2	0.51	0.51	---	---	---		122	---	---	0.01	0.01	---	4,820	11.01	10.66	0.001	0.714	0.1%	80%	98%	0.00	0.29	0.3%	58%
1-Jun	10.2	0.40	0.40	0.00	0.00	0.00	1.21		---	---	<0.01	<0.01	---	4,820			0.000	0.714	0.0%			0.00	0.29	0.0%	
1-Jun	10.2	0.43	0.43	---	---	---		123	---	---	0.02	0.01	---	4,730	10.80	10.78	0.002	0.716	0.3%	80%	98%	0.00	0.29	0.2%	59%
4-Jun	10.2	0.27	0.27	0.00	0.00	1.60	1.20		---	---	<0.01	<0.01	---	4,730			0.000	0.716	0.0%			0.00	0.29	0.0%	
4-Jun	10.2	0.45	0.45	---	---	---		126	---	---	0.02	0.01	---	5,110	11.67	10.91	0.003	0.719	0.3%	80%	98%	0.00	0.29	0.3%	59%
5-Jun	10.3	0.29	0.29	0.00	0.00	1.60	1.23		---	---	<0.01	<0.01	---	5,110			0.000	0.719	0.0%			0.00	0.29	0.0%	
5-Jun	10.3	0.53	0.53	---	---	---		127	---	---	0.02	<0.01	---	4,330	9.89	11.02	0.002	0.721	0.2%	80%	99%	0.00	0.29	0.0%	59%
6-Jun	10.2	0.27	0.27	0.00	0.00	2.00	1.24		1,000	---	<0.01	<0.01	---	4,330			0.000	0.721	0.0%			0.00	0.29	0.0%	
6-Jun	10.2	0.42	0.42	---	---	---		128	---	---	<0.01	<0.01	8.34	4,850	11.08	11.15	0.000	0.721	0.0%	80%	99%	0.00	0.29	0.0%	59%
7-Jun	10.2	0.34	0.34	0.00	0.00	1.30	1.28		---	---	<0.01	<0.01	---	4,850			0.000	0.721	0.0%			0.00	0.29	0.0%	
7-Jun	10.3	0.58	0.58	---	---	---		129	---	---	0.02	0.01	---	3,920	8.95	11.25	0.002	0.723	0.2%	81%	99%	0.00	0.29	0.2%	59%
8-Jun	10.3	0.46	0.46	0.00	0.00	0.00	1.28		---	---	0.01	0.01	---	3,920			-0.001	0.722	-0.1%			0.00	0.29	-0.2%	
8-Jun	10.3	0.58	0.58	---	---	---		130	---	---	0.03	0.01	8.22	4,660	10.64	11.36	0.004	0.726	0.4%	81%	99%	0.00	0.29	0.2%	59%
11-Jun	10.4	0.40	0.40	0.00	0.00	0.00	1.25		600	---	<0.01	0.01	---	4,660			0.000	0.726	0.0%			0.00	0.29	-0.2%	
11-Jun	10.2	0.41	0.41	---	---	---		133	---	---	<0.01	0.01	---	4,720	10.78	11.48	0.000	0.726	0.0%	81%	99%	0.00	0.29	0.2%	59%
12-Jun	10.3	0.28	0.28	0.00	0.00	0.00	1.25		600	---	0.01	<0.01	---	4,720			-0.001	0.725	-0.1%			0.00	0.29	0.0%	
12-Jun	10.3	0.31	0.31	---	---	---		134	---	---	0.04	0.01	---	3,850	8.79	11.58	0.004	0.729	0.4%	81%	100%	0.00	0.29	0.2%	59%
13-Jun	10.3	0.26	0.26	0.00	0.00	0.00	1.27		1,400	---	<0.01	0.01	---	3,850			0.000	0.729	0.0%			0.00	0.29	-0.2%	
13-Jun	10.2	0.31	0.31	---	---	---		135	---	---	<0.01	0.01	7.92	4,220	9.64	11.69	0.000	0.729	0.0%	81%	100%	0.00	0.29	0.2%	59%
14-Jun	10.1	0.21	0.21	0.00	0.00	0.00	1.27		1,100	---	0.01	<0.01	---	4,220			-0.001	0.727	-0.1%			0.00	0.29	0.0%	
14-Jun	10.1	0.20	0.20	---	---	---		136	---	---	0.02	<0.01	---	5,080	11.60	11.82	0.003	0.730	0.3%	81%	100%	0.00	0.29	0.0%	59%
15-Jun	10.0	0.17	0.17	0.00	0.00	0.00	1.27		---	---	<0.01	<0.01	---	5,080			0.000	0.730	0.0%			0.00	0.29	0.0%	
15-Jun	10.1	0.16	0.16	---	---	---		137	---	---	<0.01	<0.01	---	5,370	12.27	11.96	0.000	0.730	0.0%	81%	100%	0.00	0.29	0.0%	59%
18-Jun	9.9	0.11	0.11	0.00	0.00	0.00	1.27		---	---	<0.01	<0.01	---	5,370			0.000	0.730	0.0%			0.00	0.29	0.0%	
18-Jun	10.0	0.14	0.14	---	---	---		140	---	---	0.02	0.01	---	5,160	11.79	12.09	0.003	0.733	0.3%	82%	100%	0.00	0.29	0.3%	60%
19-Jun	9.9	0.10	0.10	0.00	0.00	0.00	1.27		---	---	<0.01	<0.01	---	5,160			0.000	0.733	0.0%			0.00	0.29	0.0%	
19-Jun	10.0	0.10	0.10	---	---	---		141	---	---	<0.01	0.01	---	5,180	11.83	12.22	0.000	0.733	0.0%	82%	100%	0.00	0.29	0.3%	60%
20-Jun	9.9	0.06	0.06	0.00	0.00	0.00	1.27		---	---	<0.01	<0.01	---	5,180			0.000	0.733	0.0%			0.00	0.29	0.0%	
20-Jun	9.9	0.08	0.08	---	---	---		142	---	---	<0.01	0.01	6.16	4,750	10.85	12.34	0.000	0.733	0.0%	82%	100%	0.00	0.29	0.2%	60%
21-Jun	9.8	0.05	0.05	0.00	0.00	0.00	1.28		---	---	0.01	<0.01	---	4,750			-0.001	0.731	-0.1%			0.00	0.29	0.0%	
21-Jun	9.9	0.06	0.06	---	---	---		143	---	---	<0.01	0.01	---	4,810	10.99	12.46	0.000	0.731	0.0%	82%	100%	0.00	0.30	0.3%	60%
22-Jun	9.8	0.04	0.04	0.00	0.00	0.00	1.28		---	XC-4	<0.01	<0.01	---	4,810			0.000	0.731	0.0%			0.00	0.30	0.0%	

Project:	Eagle Gold																								
Sample Description:	Environmental Composite																								
Test No.:	63319								**Columns run at 3˚C to 4˚C**																
Sample I.D.:	48158																								
Initial Ht., meters:	1.49																								
Crush Size, mm:	9.5																								
Column I.D., meters:	0.152																								

Head Screen, gms Au/MT:	1.077		gms Ag/MT:	0.56																					
Head Assay, gms Au/MT:	1.041		gms Ag/MT:	0.62																					
Extracted, gms Au/MT:	0.816		gms Ag/MT:	0.32																					
Tail Assay, gms Au/MT:	0.167		gms Ag/MT:	0.20																					
Calculated Head, gms Au/MT:	0.984		gms Ag/MT:	0.52																					
Weight of Sample, kg:	39.40																								
Column Surface Area, square meters:	0.018																								
Cement Addition, grams:	118.86		kg/MT:	3.02																					
Hydrated Lime Addition, grams:	0.00		kg/MT:	0.00																					

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
30-Jan	---	---	---	0.00	0.00	6.85	0.00		6,853	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
30-Jan	---	---	---	---	---	---		0	---	---	---	---	---	---	0.00	0.00	0.000	0.000	0.0%	0%	0%	0.00	0.00	0.0%	0%
31-Jan	---	---	---	0.00	0.00	5.30	0.17		5,300	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
31-Jan	11.8	0.67	0.67	---	---	---		1	---	C-1	1.95	1.22	11.60	4,380	10.00	0.11	0.217	0.217	22.0%	22%	27%	0.14	0.14	26.0%	26%
1-Feb	11.2	0.61	0.61	0.00	0.00	0.90	0.23		900	---	<0.01	<0.01	---	4,380			0.000	0.217	0.0%			0.00	0.14	0.0%	
1-Feb	11.7	0.64	0.64	---	---	---		2	---	---	0.82	0.39	6.65	5,060	11.56	0.24	0.105	0.322	10.7%	33%	39%	0.05	0.19	9.6%	36%
2-Feb	11.6	0.60	0.60	0.00	0.00	0.00	0.17		---	---	<0.01	<0.01	---	5,060			0.000	0.322	0.0%			0.00	0.19	0.0%	
2-Feb	11.7	0.87	0.87	---	---	---		3	---	---	0.56	0.23	5.59	5,240	11.97	0.37	0.074	0.397	7.6%	40%	49%	0.03	0.22	5.9%	41%
3-Feb	11.8	0.86	0.86	0.00	0.00	0.00	0.12		---	---	<0.01	0.01	---	5,240			0.000	0.397	0.0%			0.00	0.21	-0.3%	
3-Feb	11.9	0.79	0.79	---	---	---		4	---	---	0.25	0.09	---	5,240	11.97	0.51	0.033	0.430	3.4%	44%	53%	0.01	0.23	2.3%	43%
4-Feb	11.8	0.75	0.75	0.00	0.00	0.00	0.09		---	---	<0.01	0.01	---	5,240			0.000	0.430	0.0%			0.00	0.23	-0.3%	
4-Feb	11.8	0.88	0.88	---	---	---		5	---	---	0.24	0.07	---	5,140	11.74	0.64	0.031	0.461	3.2%	47%	56%	0.01	0.23	1.7%	45%
5-Feb	11.8	0.67	0.67	0.00	0.00	0.00	0.09		---	---	<0.01	0.01	---	5,140			0.000	0.461	0.0%			0.00	0.23	-0.2%	
5-Feb	11.8	0.74	0.74	---	---	---		6	---	---	0.16	0.05	---	5,080	11.60	0.76	0.021	0.482	2.1%	49%	59%	0.01	0.24	1.2%	46%
6-Feb	11.6	0.60	0.60	0.00	0.00	0.00	0.10		---	---	<0.01	<0.01	---	5,080			0.000	0.482	0.0%			0.00	0.24	0.0%	
6-Feb	11.7	0.65	0.65	---	---	---		7	---	---	0.14	0.03	---	4,740	10.83	0.89	0.017	0.499	1.7%	51%	61%	0.00	0.24	0.7%	47%
7-Feb	11.4	0.55	0.55	0.00	0.00	0.00	0.10		---	XC-1	<0.01	<0.01	---	4,740			0.000	0.499	0.0%			0.00	0.24	0.0%	
7-Feb	11.6	0.66	0.66	---	---	---		8	---	C-2	0.14	0.02	---	4,800	10.96	1.01	0.017	0.516	1.7%	52%	63%	0.00	0.25	0.5%	47%
8-Feb	11.3	0.48	0.48	0.00	0.00	0.00	0.10		---	---	<0.01	0.01	---	4,800			0.000	0.516	0.0%			0.00	0.24	-0.2%	
8-Feb	11.7	0.62	0.62	---	---	---		9	---	---	0.09	0.03	7.46	4,980	11.38	1.13	0.011	0.527	1.2%	54%	65%	0.00	0.25	0.7%	48%
9-Feb	11.2	0.48	0.48	0.00	0.00	0.00	0.09		---	---	<0.01	0.01	---	4,980			0.000	0.527	0.0%			0.00	0.25	-0.2%	
9-Feb	11.4	0.52	0.52	---	---	---		10	---	---	0.10	0.03	---	4,160	9.50	1.24	0.011	0.538	1.1%	55%	66%	0.00	0.25	0.6%	48%
10-Feb	11.3	0.42	0.42	0.00	0.00	0.00	0.09		---	---	<0.01	<0.01	---	4,160			0.000	0.538	0.0%			0.00	0.25	0.0%	
10-Feb	11.6	0.50	0.50	---	---	---		11	---	---	0.08	0.01	---	4,880	11.15	1.36	0.010	0.547	1.0%	56%	67%	0.00	0.25	0.2%	48%
13-Feb	11.3	0.40	0.40	0.00	0.00	0.00	0.09		---	---	<0.01	<0.01	---	4,880			0.000	0.547	0.0%			0.00	0.25	0.0%	
13-Feb	10.9	0.43	0.43	---	---	---		14	---	---	0.06	0.01	---	4,440	10.14	1.48	0.007	0.554	0.7%	56%	68%	0.00	0.25	0.2%	48%
14-Feb	11.3	0.30	0.30	0.00	0.00	2.20	0.08		900	---	0.01	<0.01	---	4,440			-0.001	0.553	-0.1%			0.00	0.25	0.0%	
14-Feb	11.1	0.41	0.41	---	---	---		15	---	---	0.20	0.03	---	4,410	10.07	1.59	0.022	0.576	2.3%	59%	70%	0.00	0.26	0.6%	49%
15-Feb	11.2	0.33	0.33	0.00	0.00	2.10	0.14		900	---	<0.01	<0.01	---	4,410			0.000	0.576	0.0%			0.00	0.26	0.0%	
15-Feb	11.5	0.51	0.51	---	---	---		16	---	---	0.08	0.10	9.74	5,570	12.72	1.73	0.011	0.587	1.1%	60%	72%	0.01	0.27	2.7%	52%
16-Feb	11.1	0.42	0.42	0.00	0.00	0.00	0.16		---	---	<0.01	0.01	---	5,570			0.000	0.587	0.0%			0.00	0.27	-0.3%	
16-Feb	11.2	0.48	0.48	---	---	---		17	---	---	0.06	0.02	---	5,640	12.88	1.87	0.009	0.595	0.9%	61%	73%	0.00	0.27	0.5%	52%
17-Feb	11.3	0.40	0.40	0.00	0.00	0.00	0.12		---	---	0.01	<0.01	---	5,640			-0.001	0.594	-0.1%			0.00	0.27	0.0%	
17-Feb	11.4	0.66	0.66	---	---	---		18	---	---	0.08	0.01	---	4,160	9.50	1.98	0.008	0.602	0.9%	61%	74%	0.00	0.27	0.2%	52%
21-Feb	10.5	0.42	0.42	0.00	0.00	1.10	0.11		1,100	XC-2	0.01	<0.01	---	4,160			-0.001	0.601	-0.1%			0.00	0.27	0.0%	
21-Feb	10.4	0.41	0.41	---	---	---		22	---	C-3	0.07	<0.01	---	6,500	14.85	2.14	0.012	0.613	1.2%	62%	75%	0.00	0.27	0.0%	52%
22-Feb	10.4	0.26	0.26	0.00	0.00	2.20	0.13		---	---	<0.01	<0.01	---	6,500			0.000	0.613	0.0%			0.00	0.27	0.0%	
22-Feb	11.2	0.50	0.50	---	---	---		23	---	---	0.19	0.03	6.51	4,620	10.55	2.26	0.022	0.635	2.3%	65%	78%	0.00	0.28	0.7%	53%
23-Feb	10.9	0.45	0.45	0.00	0.00	0.00	0.17		---	---	<0.01	<0.01	---	4,620			0.000	0.635	0.0%			0.00	0.28	0.0%	
23-Feb	10.7	0.41	0.41	---	---	---		24	---	---	<0.01	<0.01	---	6,580	15.03	2.43	0.000	0.635	0.0%	65%	78%	0.00	0.28	0.0%	53%
24-Feb	10.7	0.40	0.40	0.00	0.00	0.00	0.14		---	---	<0.01	<0.01	---	6,580			0.000	0.635	0.0%			0.00	0.28	0.0%	
24-Feb	10.6	0.42	0.42	---	---	---		25	---	---	0.06	<0.01	---	2,750	6.28	2.50	0.004	0.639	0.4%	65%	78%	0.00	0.28	0.0%	53%
27-Feb	10.5	0.32	0.32	0.00	0.00	3.30	0.17		2,500	---	<0.01	<0.01	---	2,750			0.000	0.639	0.0%			0.00	0.28	0.0%	
27-Feb	10.6	0.42	0.42	---	---	---		28	---	---	0.04	<0.01	---	4,400	10.05	2.61	0.004	0.644	0.5%	65%	79%	0.00	0.28	0.0%	53%
28-Feb	10.4	0.32	0.32	0.00	0.00	2.10	0.27		900	---	<0.01	<0.01	---	4,400			0.000	0.644	0.0%			0.00	0.28	0.0%	
28-Feb	10.9	0.66	0.66	---	---	---		29	---	---	0.06	0.01	---	5,120	11.69	2.74	0.008	0.652	0.8%	66%	80%	0.00	0.28	0.2%	53%
29-Feb	10.7	0.52	0.52	0.00	0.00	0.00	0.26		---	---	<0.01	<0.01	---	5,120			0.000	0.652	0.0%			0.00	0.28	0.0%	
29-Feb	10.8	0.52	0.52	---	---	---		30	---	---	0.06	<0.01	4.09	4,470	10.21	2.85	0.007	0.658	0.7%	67%	81%	0.00	0.28	0.0%	53%
1-Mar	11.0	0.43	0.43	0.00	0.00	0.80	0.24		800	---	<0.01	<0.01	---	4,470			0.000	0.658	0.0%			0.00	0.28	0.0%	
1-Mar	11.1	0.59	0.59	---	---	---		31	---	---	0.03	0.01	---	5,720	13.07	3.00	0.004	0.663	0.4%	67%	81%	0.00	0.28	0.3%	53%
2-Mar	10.5	0.28	0.28	0.00	0.00	1.80	0.24		---	---	0.01	<0.01	---	5,720			-0.001	0.661	-0.1%			0.00	0.28	0.0%	
2-Mar	11.1	0.53	0.53	---	---	---		32	---	---	0.06	<0.01	---	3,780	8.63	3.09	0.006	0.667	0.6%	68%	82%	0.00	0.28	0.0%	53%
5-Mar	10.5	0.40	0.40	0.00	0.00	1.50	0.28		1,500	---	0.02	<0.01	---	3,780			-0.002	0.665	-0.2%			0.00	0.28	0.0%	
5-Mar	10.5	0.50	0.50	---	---	---		35	---	---	0.03	<0.01	---	4,010	9.16	3.19	0.003	0.668	0.3%	68%	82%	0.00	0.28	0.0%	53%
6-Mar	10.5	0.43	0.43	0.00	0.00	1.30	0.31		1,300	---	<0.01	<0.01	---	4,010			0.000	0.668	0.0%			0.00	0.28	0.0%	
6-Mar	10.5	0.56	0.56	---	---	---		36	---	---	0.07	0.01	---	4,620	10.55	3.31	0.008	0.676	0.8%	69%	83%	0.00	0.28	0.2%	54%
7-Mar	10.9	0.48	0.48	0.00	0.00	0.00	0.31		---	---	<0.01	<0.01	---	4,620			0.000	0.676	0.0%			0.00	0.28	0.0%	
7-Mar	11.2	0.45	0.45	---	---	---		37	---	---	0.04	0.01	4.42	5,200	11.88	3.44	0.005	0.682	0.5%	69%	84%	0.00	0.28	0.3%	54%
8-Mar	10.7	0.40	0.40	0.00	0.00	0.00	0.30		---	---	<0.01	<0.01	---	5,200			0.000	0.682	0.0%			0.00	0.28	0.0%	
8-Mar	10.7	0.60	0.60	---	---	---		38	---	---	0.04	0.01	---	4,410	10.07	3.56	0.004	0.686	0.5%	70%	84%	0.00	0.28	0.2%	54%
9-Mar	11.0	0.51	0.51	0.00	0.00	0.00	0.28		---	---	<0.01	<0.01	---	4,410			0.000	0.686	0.0%			0.00	0.28	0.0%	
9-Mar	11.0	0.47	0.47	---	---	---		39	---	---	0.04	<0.01	---	4,680	10.69	3.67	0.005	0.691	0.5%	70%	85%	0.00	0.28	0.0%	54%
12-Mar	10.7	0.40	0.40	0.00	0.00	0.00	0.28		---	XC-3	<0.01	<0.01	---	4,680			0.000	0.691	0.0%			0.00	0.28	0.0%	
12-Mar	10.7	0.45	0.45	---	---	---		42	---	C-4	0.02	0.01	---	4,870	11.12	3.80	0.002	0.693	0.3%	70%	85%	0.00	0.28	0.2%	54%
13-Mar	10.7	0.27	0.27	0.00	0.00	1.60	0.28		---	---	<0.01	<0.01	---	4,870			0.000	0.693	0.0%			0.00	0.28	0.0%	
13-Mar	10.9	0.43	0.43	---	---	---		43	---	---	0.06	0.02	---	4,040	9.23	3.90	0.006	0.700	0.6%	71%	86%	0.00	0.29	0.4%	55%
14-Mar	10.6	0.26	0.26	0.00	0.00	2.70	0.32		1,300	---	<0.01	<0.01	---	4,040			0.000	0.700	0.0%			0.00	0.29	0.0%	
14-Mar	10.9	0.33	0.33	---	---	---		44	---	---	0.02	0.01	4.14	4,450	10.16	4.01	0.002	0.702	0.2%	71%	86%	0.00	0.29	0.2%	55%
15-Mar	10.8	0.33	0.33	0.00	0.00	2.00	0.39		800	---	0.01	<0.01	---	4,450			-0.001	0.701	-0.1%			0.00	0.29	0.0%	
15-Mar	10.9	0.61	0.61	---	---	---		45	---	---	0.04	0.01	---	4,990	11.40	4.14	0.005	0.706	0.5%	72%	86%	0.00	0.29	0.2%	55%
16-Mar	10.7	0.48	0.48	0.00	0.00	0.00	0.39		---	---	<0.01	<0.01	---	4,990			0.000	0.706	0.0%			0.00	0.29	0.0%	
16-Mar	10.7	0.46	0.46	---	---	---		46	---	---	<0.01	<0.01	---	5,770	13.18	4.29	0.000	0.706	0.0%	72%	86%	0.00	0.29	0.0%	55%
19-Mar	10.5	0.35	0.35	0.00	0.00	1.40	0.36		---	---	<0.01	<0.01	---	5,770			0.000	0.706	0.0%			0.00	0.29	0.0%	
19-Mar	10.6	0.43	0.43	---	---	---		49	---	---	0.02	0.01	---	5,120	11.69	4.42	0.003	0.708	0.3%	72%	87%	0.00	0.29	0.2%	55%
20-Mar	10.6	0.35	0.35	0.00	0.00	1.30	0.40		---	---	<0.01	<0.01	---	5,120			0.000	0.708	0.0%			0.00	0.29	0.0%	

Project:	Eagle Gold																								
Sample Description:	Environmental Composite																								
Test No.:	63319								**Columns run at 3˚C to 4˚C**																
Sample I.D.:	48158																								
Initial Ht., meters:	1.49																								
Crush Size, mm:	9.5																								
Column I.D., meters:	0.152																								

Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56																						
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62																						
Extracted, gms Au/MT:	0.816	gms Ag/MT:	0.32																						
Tail Assay, gms Au/MT:	0.167	gms Ag/MT:	0.20																						
Calculated Head, gms Au/MT:	0.984	gms Ag/MT:	0.52																						
Weight of Sample, kg:	39.40																								
Column Surface Area, square meters:	0.018																								
Cement Addition, grams:	118.86	kg/MT:	3.02																						
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00																						

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
20-Mar	10.6	0.57	0.57	---	---	---		50	---	---	0.05	0.01	---	4,480	10.23	4.53	0.006	0.714	0.6%	73%	87%	0.00	0.29	0.2%	56%
21-Mar	10.7	0.39	0.39	0.00	0.00	1.70	0.42		800	---	<0.01	<0.01	---	4,480			0.000	0.714	0.0%			0.00	0.29	0.0%	
21-Mar	10.8	0.52	0.52	---	---	---		51	---	---	0.01	<0.01	3.25	5,500	12.56	4.67	0.001	0.715	0.1%	73%	88%	0.00	0.29	0.0%	56%
22-Mar	10.8	0.41	0.41	0.00	0.00	0.00	0.43		---	---	<0.01	<0.01	---	5,500			0.000	0.715	0.0%			0.00	0.29	0.0%	
22-Mar	10.9	0.66	0.66	---	---	---		52	---	---	0.02	<0.01	---	3,990	9.11	4.77	0.002	0.717	0.2%	73%	88%	0.00	0.29	0.0%	56%
23-Mar	10.8	0.51	0.51	0.00	0.00	0.00	0.41		---	---	<0.01	<0.01	---	3,990			0.000	0.717	0.0%			0.00	0.29	0.0%	
23-Mar	10.9	0.50	0.50	---	---	---		53	---	---	0.01	<0.01	---	6,350	14.50	4.93	0.002	0.719	0.2%	73%	88%	0.00	0.29	0.0%	56%
26-Mar	10.6	0.40	0.40	0.00	0.00	0.00	0.38		---	---	<0.01	<0.01	---	6,350			0.000	0.719	0.0%			0.00	0.29	0.0%	
26-Mar	10.5	0.43	0.43	---	---	---		56	---	---	0.02	<0.01	---	3,890	8.89	5.03	0.002	0.721	0.2%	73%	88%	0.00	0.29	0.0%	56%
27-Mar	10.6	0.30	0.30	0.00	0.00	2.60	0.39		1,400	---	<0.01	<0.01	---	3,890			0.000	0.721	0.0%			0.00	0.29	0.0%	
27-Mar	10.7	0.38	0.38	---	---	---		57	---	---	0.04	0.01	---	4,850	11.08	5.15	0.005	0.726	0.5%	74%	89%	0.00	0.29	0.2%	56%
28-Mar	10.6	0.34	0.34	0.00	0.00	1.30	0.48		---	---	<0.01	<0.01	---	4,850			0.000	0.726	0.0%			0.00	0.29	0.0%	
28-Mar	10.7	0.44	0.44	---	---	---		58	---	---	<0.01	0.01	3.34	6,290	14.37	5.31	0.000	0.726	0.0%	74%	89%	0.00	0.29	0.3%	56%
29-Mar	10.8	0.40	0.40	0.00	0.00	0.00	0.47		---	---	<0.01	<0.01	---	6,290			0.000	0.726	0.0%			0.00	0.29	0.0%	
29-Mar	10.7	0.30	0.30	---	---	---		59	---	---	<0.01	0.01	---	4,150	9.48	5.42	0.000	0.726	0.0%	74%	89%	0.00	0.29	0.2%	56%
2-Apr	10.4	0.21	0.21	0.00	0.00	2.50	0.48		---	---	<0.01	<0.01	---	4,150			0.000	0.726	0.0%			0.00	0.29	0.0%	
2-Apr	10.5	0.44	0.44	---	---	---		63	---	---	0.03	0.01	---	6,380	14.57	5.58	0.005	0.731	0.5%	74%	90%	0.00	0.30	0.3%	57%
3-Apr	10.4	0.32	0.32	0.00	0.00	1.80	0.53		---	---	<0.01	<0.01	---	6,380			0.000	0.731	0.0%			0.00	0.30	0.0%	
3-Apr	10.5	0.47	0.47	---	---	---		64	---	---	0.04	0.02	---	3,330	7.61	5.67	0.003	0.734	0.3%	75%	90%	0.00	0.30	0.3%	57%
4-Apr	10.5	0.35	0.35	0.00	0.00	2.80	0.56		2,000	---	<0.01	<0.01	---	3,330			0.000	0.734	0.0%			0.00	0.30	0.0%	
4-Apr	10.5	0.58	0.58	---	---	---		65	---	---	0.03	0.01	4.28	5,610	12.81	5.81	0.004	0.739	0.4%	75%	90%	0.00	0.30	0.3%	57%
6-Apr	10.6	0.42	0.42	0.00	0.00	0.00	0.60		---	---	<0.01	<0.01	---	5,610			0.000	0.739	0.0%			0.00	0.30	0.0%	
6-Apr	10.7	0.69	0.69	---	---	---		67	---	---	0.01	<0.01	---	5,640	12.88	5.95	0.001	0.740	0.1%	75%	91%	0.00	0.30	0.0%	57%
9-Apr	10.6	0.58	0.58	0.00	0.00	0.00	0.53		---	---	<0.01	<0.01	---	5,640			0.000	0.740	0.0%			0.00	0.30	0.0%	
9-Apr	10.5	0.41	0.41	---	---	---		70	---	---	0.03	<0.01	---	5,840	13.34	6.10	0.004	0.744	0.5%	76%	91%	0.00	0.30	0.0%	57%
10-Apr	10.3	0.33	0.33	0.00	0.00	1.60	0.53		---	---	<0.01	<0.01	---	5,840			0.000	0.744	0.0%			0.00	0.30	0.0%	
10-Apr	10.5	0.49	0.49	---	---	---		71	---	---	0.04	0.01	---	5,100	11.65	6.23	0.005	0.750	0.5%	76%	92%	0.00	0.30	0.2%	58%
11-Apr	10.6	0.36	0.36	0.00	0.00	1.20	0.59		---	---	<0.01	<0.01	---	5,100			0.000	0.750	0.0%			0.00	0.30	0.0%	
11-Apr	10.5	0.52	0.52	---	---	---		72	---	---	0.01	<0.01	4.60	5,490	12.54	6.37	0.001	0.751	0.1%	76%	92%	0.00	0.30	0.0%	58%
12-Apr	10.6	0.42	0.42	0.00	0.00	0.00	0.59		---	---	<0.01	<0.01	---	5,490			0.000	0.751	0.0%			0.00	0.30	0.0%	
12-Apr	10.6	0.59	0.59	---	---	---		73	---	---	0.03	<0.01	---	4,690	10.71	6.49	0.004	0.755	0.4%	77%	92%	0.00	0.30	0.0%	58%
13-Apr	10.6	0.44	0.44	0.00	0.00	0.00	0.57		---	---	<0.01	<0.01	---	4,960			0.000	0.755	0.0%			0.00	0.30	0.0%	
13-Apr	10.6	0.50	0.50	---	---	---		74	---	---	0.03	<0.01	---	5,060	11.56	6.62	0.004	0.758	0.4%	77%	93%	0.00	0.30	0.0%	58%
16-Apr	10.5	0.31	0.31	0.00	0.00	1.50	0.56		---	---	<0.01	<0.01	---	5,060			0.000	0.758	0.0%			0.00	0.30	0.0%	
16-Apr	10.4	0.36	0.36	---	---	---		77	---	---	0.01	<0.01	---	4,940	11.28	6.74	0.001	0.760	0.1%	77%	93%	0.00	0.30	0.0%	58%
17-Apr	10.3	0.30	0.30	0.00	0.00	1.50	0.61		---	---	<0.01	<0.01	---	4,940			0.000	0.760	0.0%			0.00	0.30	0.0%	
17-Apr	10.4	0.34	0.34	---	---	---		78	---	---	0.02	<0.01	---	3,940	9.00	6.84	0.002	0.762	0.2%	77%	93%	0.00	0.30	0.0%	58%
18-Apr	10.4	0.30	0.30	0.00	0.00	2.60	0.65		1,400	---	<0.01	<0.01	---	3,940			0.000	0.762	0.0%			0.00	0.30	0.0%	
18-Apr	10.5	0.55	0.55	---	---	---		79	---	---	<0.01	<0.01	4.69	4,920	11.24	6.97	0.000	0.762	0.0%	77%	93%	0.00	0.30	0.0%	58%
19-Apr	10.6	0.42	0.42	0.00	0.00	0.00	0.69		---	---	<0.01	<0.01	---	4,920			0.000	0.762	0.0%			0.00	0.30	0.0%	
19-Apr	10.6	0.52	0.52	---	---	---		80	---	---	<0.01	<0.01	---	5,080	11.60	7.09	0.000	0.762	0.0%	77%	93%	0.00	0.30	0.0%	58%
20-Apr	10.5	0.48	0.48	0.00	0.00	0.00	0.65		---	---	<0.01	<0.01	---	5,080			0.000	0.762	0.0%			0.00	0.30	0.0%	
20-Apr	10.4	0.49	0.49	---	---	---		81	---	---	<0.01	<0.01	---	3,500	7.99	7.18	0.000	0.762	0.0%	77%	93%	0.00	0.30	0.0%	58%
23-Apr	10.4	0.32	0.32	0.00	0.00	2.80	0.66		1,800	---	<0.01	<0.01	---	3,500			0.000	0.762	0.0%			0.00	0.30	0.0%	
23-Apr	10.4	0.39	0.39	---	---	---		84	---	---	0.02	<0.01	---	6,270	14.32	7.34	0.003	0.765	0.3%	78%	94%	0.00	0.30	0.0%	58%
24-Apr	10.4	0.31	0.31	0.00	0.00	1.80	0.73		---	---	<0.01	<0.01	---	6,270			0.000	0.765	0.0%			0.00	0.30	0.0%	
24-Apr	10.4	0.59	0.59	---	---	---		85	---	---	0.01	0.01	---	4,290	9.80	7.45	0.001	0.766	0.1%	78%	94%	0.00	0.30	0.2%	58%
25-Apr	10.5	0.44	0.44	0.00	0.00	1.00	0.74		1,000	---	<0.01	<0.01	---	4,290			0.000	0.766	0.0%			0.00	0.30	0.0%	
25-Apr	10.5	0.59	0.59	---	---	---		86	---	---	0.01	<0.01	4.22	6,560	14.98	7.62	0.002	0.768	0.2%	78%	94%	0.00	0.30	0.0%	58%
26-Apr	10.5	0.49	0.49	0.00	0.00	0.00	0.71		---	---	<0.01	<0.01	---	6,560			0.000	0.768	0.0%			0.00	0.30	0.0%	
26-Apr	10.5	0.50	0.50	---	---	---		87	---	---	0.02	<0.01	---	5,030	11.49	7.75	0.003	0.770	0.3%	78%	94%	0.00	0.30	0.0%	58%
27-Apr	10.5	0.40	0.40	0.00	0.00	0.00	0.70		---	---	<0.01	<0.01	---	5,030			0.000	0.770	0.0%			0.00	0.30	0.0%	
27-Apr	10.5	0.48	0.48	---	---	---		88	---	---	0.01	<0.01	---	5,860	13.39	7.89	0.001	0.772	0.2%	78%	95%	0.00	0.30	0.0%	58%
30-Apr	10.5	0.30	0.30	0.00	0.00	1.80	0.71		---	---	<0.01	<0.01	---	5,860			0.000	0.772	0.0%			0.00	0.30	0.0%	
30-Apr	10.5	0.36	0.36	---	---	---		91	---	---	0.03	<0.01	---	5,110	11.67	8.02	0.004	0.776	0.4%	79%	95%	0.00	0.30	0.0%	58%
1-May	10.5	0.28	0.28	0.00	0.00	1.60	0.76		---	---	<0.01	<0.01	---	5,110			0.000	0.776	0.0%			0.00	0.30	0.0%	
1-May	10.4	0.34	0.34	---	---	---		92	---	---	0.02	0.01	---	4,560	10.42	8.14	0.002	0.778	0.2%	79%	95%	0.00	0.30	0.2%	58%
2-May	10.5	0.34	0.34	0.00	0.00	1.20	0.80		---	---	<0.01	<0.01	---	4,560			0.000	0.778	0.0%			0.00	0.30	0.0%	
2-May	10.4	0.57	0.57	---	---	---		93	---	---	0.02	<0.01	4.56	4,160	9.50	8.25	0.002	0.780	0.2%	79%	96%	0.00	0.30	0.0%	58%
3-May	10.4	0.41	0.41	0.00	0.00	1.10	0.81		1,100	---	<0.01	<0.01	---	4,160			0.000	0.780	0.0%			0.00	0.30	0.0%	
3-May	10.4	0.44	0.44	---	---	---		94	---	---	0.01	<0.01	---	5,400	12.33	8.38	0.001	0.781	0.1%	79%	96%	0.00	0.30	0.0%	58%
4-May	10.5	0.43	0.43	0.00	0.00	0.00	0.81		---	---	<0.01	<0.01	---	5,400			0.000	0.781	0.0%			0.00	0.30	0.0%	
4-May	10.4	0.51	0.51	---	---	---		95	---	---	0.01	<0.01	---	5,380	12.29	8.52	0.001	0.783	0.1%	80%	96%	0.00	0.30	0.0%	58%
7-May	10.5	0.35	0.35	0.00	0.00	1.40	0.79		---	---	<0.01	<0.01	---	5,380			0.000	0.783	0.0%			0.00	0.30	0.0%	
7-May	10.5	0.37	0.37	---	---	---		98	---	---	0.01	0.01	---	5,410	12.36	8.66	0.001	0.784	0.1%	80%	96%	0.00	0.30	0.3%	58%
9-May	10.3	0.28	0.28	0.00	0.00	1.70	0.83		---	---	<0.01	<0.01	---	5,410			0.000	0.784	0.0%			0.00	0.30	0.0%	
9-May	10.4	0.47	0.47	---	---	---		100	---	---	0.02	<0.01	5.02	5,220	11.92	8.79	0.003	0.787	0.3%	80%	96%	0.00	0.30	0.0%	58%
10-May	10.5	0.34	0.34	0.00	0.00	1.40	0.86		---	---	<0.01	<0.01	---	5,220			0.000	0.787	0.0%			0.00	0.30	0.0%	
10-May	10.4	0.50	0.50	---	---	---		101	---	---	<0.01	0.01	---	3,960	9.05	8.89	0.000	0.787	0.0%	80%	96%	0.00	0.31	0.2%	58%
11-May	10.4	0.40	0.40	0.00	0.00	0.00	0.88		---	---	<0.01	<0.01	---	3,960			0.000	0.787	0.0%			0.00	0.31	0.0%	
11-May	10.4	0.51	0.51	---	---	---		102	---	---	<0.01	0.01	---	4,930	11.26	9.01	0.000	0.787	0.0%	80%	96%	0.00	0.31	0.2%	59%
14-May	10.5	0.40	0.40	0.00	0.00	0.00	0.86		---	---	<0.01	<0.01	---	4,930			0.000	0.787	0.0%			0.00	0.31	0.0%	
14-May	10.4	0.40	0.40	---	---	---		105	---	---	0.03	<0.01	---	4,210	9.62	9.12	0.003	0.790	0.3%	80%	97%	0.00	0.31	0.0%	59%
15-May	10.4	0.26	0.26	0.00	0.00	2.50	0.86		1,100	---	<0.01	<0.01	---	4,210			0.000	0.790	0.0%			0.00	0.31	0.0%	
15-May	10.5	0.35	0.35	---	---	---		106	---	---	0.02	0.01	---	4,630	10.58	9.24	0.002	0.792	0.2%	81%	97%	0.00	0.31	0.2%	59%

Project:	Eagle Gold																	Head Screen, gms Au/MT:	1.077		gms Ag/MT:	0.56		
Sample Description:	Environmental Composite																	Head Assay, gms Au/MT:	1.041		gms Ag/MT:	0.62		
Test No.:	63319								**Columns run at 3˚C to 4˚C**									Extracted, gms Au/MT:	0.816		gms Ag/MT:	0.32		
Sample I.D.:	48158																	Tail Assay, gms Au/MT:	0.167		gms Ag/MT:	0.20		
Initial Ht., meters:	1.49																	Calculated Head, gms Au/MT:	0.984		gms Ag/MT:	0.52		
Crush Size, mm:	9.5																	Weight of Sample, kg:	39.40					
Column I.D., meters:	0.152																	Column Surface Area, square meters:	0.018					
																		Cement Addition, grams:	118.86		kg/MT:	3.02		
																		Hydrated Lime Addition, grams:	0.00		kg/MT:	0.00		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
16-May	10.3	0.29	0.29	0.00	0.00	1.40	0.93		---	---	<0.01	<0.01	---	4,630			0.000	0.792	0.0%			0.00	0.31	0.0%	
16-May	10.3	0.33	0.33	---	---	---		107	---	---	0.01	0.01	5.75	4,970	11.35	9.37	0.001	0.794	0.1%	81%	97%	0.00	0.31	0.2%	59%
17-May	10.3	0.31	0.31	0.00	0.00	1.40	0.95		---	---	<0.01	0.01	---	4,970			0.000	0.794	0.0%			0.00	0.31	-0.2%	
17-May	10.3	0.38	0.38	---	---	---		108	---	---	0.02	0.01	---	4,780	10.92	9.49	0.002	0.796	0.2%	81%	97%	0.00	0.31	0.2%	59%
18-May	10.3	0.32	0.32	0.00	0.00	1.30	0.97		---	---	0.01	<0.01	---	4,780			-0.001	0.795	-0.1%			0.00	0.31	0.0%	
18-May	10.3	0.32	0.32	---	---	---		109	---	---	0.01	0.01	---	4,140	9.46	9.59	0.001	0.796	0.1%	81%	97%	0.00	0.31	0.2%	59%
21-May	10.3	0.23	0.23	0.00	0.00	2.70	1.01		1,200	---	<0.01	<0.01	---	4,140			0.000	0.796	0.0%			0.00	0.31	0.0%	
21-May	10.4	0.42	0.42	---	---	---		112	---	---	0.01	<0.01	---	4,760	10.87	9.71	0.001	0.797	0.1%	81%	98%	0.00	0.31	0.0%	59%
22-May	10.4	0.30	0.30	0.00	0.00	1.40	1.07		---	---	0.01	<0.01	---	4,760			-0.001	0.796	-0.1%			0.00	0.31	0.0%	
22-May	10.3	0.62	0.62	---	---	---		113	---	---	0.01	0.01	---	4,100	9.37	9.82	0.001	0.797	0.1%	81%	98%	0.00	0.31	0.2%	60%
23-May	10.4	0.40	0.40	0.00	0.00	1.10	1.06		1,100	---	<0.01	<0.01	---	4,100			0.000	0.797	0.0%			0.00	0.31	0.0%	
23-May	10.4	0.51	0.51	---	---	---		114	---	---	<0.01	0.01	5.22	4,390	10.03	9.93	0.000	0.797	0.0%	81%	98%	0.00	0.31	0.2%	60%
24-May	10.5	0.40	0.40	0.00	0.00	0.90	1.07		900	---	<0.01	<0.01	---	4,390			0.000	0.797	0.0%			0.00	0.31	0.0%	
24-May	10.4	0.49	0.49	---	---	---		115	---	---	0.02	<0.01	---	4,350	9.94	10.04	0.002	0.799	0.2%	81%	98%	0.00	0.31	0.0%	60%
25-May	10.4	0.40	0.40	0.00	0.00	0.00	1.08		---	---	<0.01	<0.01	---	4,350			0.000	0.799	0.0%			0.00	0.31	0.0%	
25-May	10.3	0.47	0.47	---	---	---		116	---	---	0.02	<0.01	---	4,960	11.33	10.16	0.003	0.802	0.3%	81%	98%	0.00	0.31	0.0%	60%
29-May	10.3	0.30	0.30	0.00	0.00	1.50	1.06		---	---	<0.01	<0.01	---	4,960			0.000	0.802	0.0%			0.00	0.31	0.0%	
29-May	10.3	0.31	0.31	---	---	---		120	---	---	<0.01	0.01	---	6,350	14.50	10.33	0.000	0.802	0.0%	81%	98%	0.00	0.31	0.3%	60%
30-May	10.3	0.25	0.25	0.00	0.00	2.20	1.10		---	---	<0.01	<0.01	---	6,350			0.000	0.802	0.0%			0.00	0.31	0.0%	
30-May	10.3	0.42	0.42	---	---	---		121	---	---	0.01	<0.01	5.95	3,930	8.98	10.43	0.001	0.803	0.1%	82%	98%	0.00	0.31	0.0%	60%
31-May	10.3	0.33	0.33	0.00	0.00	2.50	1.15		1,400	---	<0.01	<0.01	---	3,950			0.000	0.803	0.0%			0.00	0.31	0.0%	
31-May	10.3	0.49	0.49	---	---	---		122	---	---	<0.01	0.01	---	5,650	12.91	10.57	0.000	0.803	0.0%	82%	98%	0.00	0.32	0.3%	60%
1-Jun	10.3	0.48	0.48	0.00	0.00	0.00	1.18		---	---	<0.01	<0.01	---	5,650			0.000	0.803	0.0%			0.00	0.32	0.0%	
1-Jun	10.3	0.50	0.52	---	---	---		123	---	---	0.01	<0.01	---	4,220	9.64	10.68	0.001	0.804	0.1%	82%	98%	0.00	0.32	0.0%	60%
4-Jun	10.4	0.40	0.40	0.00	0.00	1.10	1.16		1,100	---	<0.01	<0.01	---	4,220			0.000	0.804	0.0%			0.00	0.32	0.0%	
4-Jun	10.4	0.40	0.40	---	---	---		126	---	---	0.02	<0.01	---	5,000	11.42	10.80	0.003	0.806	0.3%	82%	99%	0.00	0.32	0.0%	60%
5-Jun	10.4	0.34	0.34	0.00	0.00	1.30	1.20		---	---	<0.01	<0.01	---	5,000			0.000	0.806	0.0%			0.00	0.32	0.0%	
5-Jun	10.4	0.49	0.49	---	---	---		127	---	---	0.02	<0.01	---	5,800	13.25	10.95	0.003	0.809	0.3%	82%	99%	0.00	0.32	0.0%	60%
6-Jun	10.4	0.41	0.41	0.00	0.00	0.00	1.21		---	---	<0.01	<0.01	---	5,800			0.000	0.809	0.0%			0.00	0.32	0.0%	
6-Jun	10.3	0.47	0.47	---	---	---		128	---	---	<0.01	<0.01	5.68	4,540	10.37	11.06	0.000	0.809	0.0%	82%	99%	0.00	0.32	0.0%	60%
7-Jun	10.4	0.46	0.46	0.00	0.00	0.80	1.20		800	---	<0.01	<0.01	---	4,540			0.000	0.809	0.0%			0.00	0.32	0.0%	
7-Jun	10.4	0.43	0.43	---	---	---		129	---	---	<0.01	0.01	---	4,920	11.24	11.19	0.000	0.809	0.0%	82%	99%	0.00	0.32	0.2%	61%
8-Jun	10.4	0.38	0.38	0.00	0.00	1.10	1.22		---	---	<0.01	<0.01	---	4,920			0.000	0.809	0.0%			0.00	0.32	0.0%	
8-Jun	10.4	0.38	0.38	---	---	---		130	---	---	<0.01	<0.01	5.47	6,120	13.98	11.35	0.000	0.809	0.0%	82%	99%	0.00	0.32	0.0%	61%
11-Jun	10.5	0.31	0.31	0.00	0.00	0.00	1.24		---	---	<0.01	<0.01	---	6,120			0.000	0.809	0.0%			0.00	0.32	0.0%	
11-Jun	10.5	0.36	0.36	---	---	---		133	---	---	0.02	0.01	---	3,090	7.06	11.42	0.002	0.811	0.2%	82%	99%	0.00	0.32	0.2%	61%
12-Jun	10.4	0.24	0.24	0.00	0.00	0.00	1.26		2,200	---	<0.01	0.01	---	3,090			0.000	0.811	0.0%			0.00	0.32	-0.2%	
12-Jun	10.5	0.35	0.35	---	---	---		134	---	---	0.04	0.01	---	4,310	9.84	11.53	0.004	0.815	0.4%	83%	100%	0.00	0.32	0.2%	61%
13-Jun	10.5	0.32	0.32	0.00	0.00	0.00	1.27		1,000	---	<0.01	<0.01	---	4,310			0.000	0.815	0.0%			0.00	0.32	0.0%	
13-Jun	10.5	0.24	0.24	---	---	---		135	---	---	<0.01	0.01	4.90	4,910	11.22	11.66	0.000	0.815	0.0%	83%	100%	0.00	0.32	0.2%	61%
14-Jun	10.3	0.17	0.17	0.00	0.00	0.00	1.26		---	---	0.01	<0.01	---	4,910			-0.001	0.814	-0.1%			0.00	0.32	0.0%	
14-Jun	10.3	0.20	0.20	---	---	---		136	---	---	0.01	0.01	---	4,840	11.06	11.78	0.001	0.815	0.1%	83%	100%	0.00	0.32	0.2%	61%
15-Jun	10.2	0.17	0.17	0.00	0.00	0.00	1.27		---	---	<0.01	<0.01	---	4,840			0.000	0.815	0.0%			0.00	0.32	0.0%	
15-Jun	10.3	0.19	0.19	---	---	---		137	---	---	<0.01	<0.01	---	5,400	12.33	11.92	0.000	0.815	0.0%	83%	100%	0.00	0.32	0.0%	61%
18-Jun	10.2	0.14	0.14	0.00	0.00	0.00	1.26		---	---	<0.01	<0.01	---	5,400			0.000	0.815	0.0%			0.00	0.32	0.0%	
18-Jun	10.2	0.15	0.15	---	---	---		140	---	---	<0.01	0.01	---	5,010	11.44	12.04	0.000	0.815	0.0%	83%	100%	0.00	0.32	0.2%	61%
19-Jun	10.3	0.10	0.10	0.00	0.00	0.00	1.27		---	---	<0.01	0.01	---	5,010			0.000	0.815	0.0%			0.00	0.32	-0.2%	
19-Jun	10.3	0.12	0.12	---	---	---		141	---	---	<0.01	0.02	---	3,740	8.54	12.14	0.000	0.815	0.0%	83%	100%	0.00	0.32	0.4%	62%
20-Jun	10.1	0.07	0.07	0.00	0.00	0.00	1.27		1,600	---	<0.01	0.01	---	3,740			0.000	0.815	0.0%			0.00	0.32	-0.2%	
20-Jun	10.1	0.09	0.09	---	---	---		142	---	---	<0.01	0.01	4.50	4,820	11.01	12.26	0.000	0.815	0.0%	83%	100%	0.00	0.32	0.2%	62%
21-Jun	10.1	0.08	0.08	0.00	0.00	0.00	1.28		---	---	<0.01	<0.01	---	4,820			0.000	0.815	0.0%			0.00	0.32	0.0%	
21-Jun	10.2	0.09	0.09	---	---	---		143	---	---	0.01	<0.01	---	5,250	11.99	12.40	0.001	0.816	0.1%	83%	100%	0.00	0.32	0.0%	62%
22-Jun	10.1	0.06	0.06	0.00	0.00	0.00	1.27		---	XC-4	<0.01	<0.01	---	5,250			0.000	0.816	0.0%			0.00	0.32	0.0%	

Project:	Eagle Gold																								
Sample Description:	Environmental Composite																								
Test No.:	63322								**Columns run at 3˚C to 4˚C**																
Sample I.D.:	48158																								
Initial Ht., meters:	1.56																								
Crush Size, mm:	9.5																								
Column I.D., meters:	0.152																								

Head Screen, gms Au/MT:	1.077		gms Ag/MT:	0.56																					
Head Assay, gms Au/MT:	1.041		gms Ag/MT:	0.62																					
Extracted, gms Au/MT:	0.841		gms Ag/MT:	0.33																					
Tail Assay, gms Au/MT:	0.165		gms Ag/MT:	0.19																					
Calculated Head, gms Au/MT:	1.006		gms Ag/MT:	0.52																					
Est. Weight of Sample, kg:	39.28																								
Column Surface Area, square meters:	0.018																								
Cement Addition, grams:	118.86		kg/MT:	3.03																					
Hydrated Lime Addition, grams:	0.00		kg/MT:	0.00																					

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
30-Jan	---	---	---	0.00	0.00	6.95	0.00		6,945	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
30-Jan	---	---	---	---	---	---		0	---	---	---	---	---	---		0.00	0.000	0.000	0.0%	0%	0%	0.00	0.00	0.0%	0%
31-Jan	---	---	---	0.00	0.00	5.30	0.18		5,300	---	---	---	---	---			0.000	0.000	0.0%			0.00	0.00	0.0%	
31-Jan	11.9	0.52	0.52	---	---	---		1	---	C-1	2.55	1.60	13.10	3,540	8.09	0.09	0.230	0.230	22.8%	23%	27%	0.14	0.14	27.8%	28%
1-Feb	11.2	0.40	0.40	0.00	0.00	1.80	0.27		1,800	---	<0.01	<0.01	---	3,540			0.000	0.230	0.0%			0.00	0.14	0.0%	
1-Feb	11.8	0.91	0.91	---	---	---		2	---	---	0.79	0.42	8.27	5,540	12.65	0.23	0.111	0.341	11.1%	34%	41%	0.06	0.20	11.4%	39%
2-Feb	11.7	0.76	0.76	0.00	0.00	0.00	0.18		---	---	<0.01	0.01	---	5,540			0.000	0.341	0.0%			0.00	0.20	-0.3%	
2-Feb	11.8	0.61	0.61	---	---	---		3	---	---	0.42	0.17	5.34	5,540	12.65	0.37	0.059	0.400	5.9%	40%	48%	0.02	0.23	4.6%	44%
3-Feb	11.9	0.60	0.60	0.00	0.00	0.00	0.13		---	---	0.01	0.01	---	5,540			-0.001	0.399	-0.1%			0.00	0.22	-0.3%	
3-Feb	11.9	0.81	0.81	---	---	---		4	---	---	0.28	0.10	---	5,600	12.79	0.51	0.040	0.439	4.0%	44%	52%	0.01	0.24	2.8%	46%
4-Feb	11.9	0.75	0.75	0.00	0.00	0.00	0.12		---	---	<0.01	0.01	---	5,600			0.000	0.439	0.0%			0.00	0.24	-0.3%	
4-Feb	11.9	0.70	0.70	---	---	---		5	---	---	0.26	0.07	---	5,360	12.24	0.65	0.035	0.474	3.5%	47%	56%	0.01	0.25	1.8%	48%
5-Feb	11.8	0.58	0.58	0.00	0.00	0.00	0.11		---	---	<0.01	0.01	---	5,360			0.000	0.474	0.0%			0.00	0.25	-0.3%	
5-Feb	11.9	0.56	0.56	---	---	---		6	---	---	0.14	0.05	---	5,180	11.83	0.78	0.018	0.493	1.8%	49%	59%	0.01	0.25	1.3%	49%
6-Feb	11.6	0.40	0.40	0.00	0.00	0.00	0.14		---	---	<0.01	<0.01	---	5,180			0.000	0.493	0.0%			0.00	0.25	0.0%	
6-Feb	11.7	0.53	0.53	---	---	---		7	---	---	0.16	0.04	---	5,080	11.60	0.91	0.021	0.514	2.1%	51%	61%	0.01	0.26	1.0%	50%
7-Feb	11.4	0.44	0.44	0.00	0.00	0.00	0.15		---	XC-1	<0.01	<0.01	---	5,080			0.000	0.514	0.0%			0.00	0.26	0.0%	
7-Feb	11.6	0.55	0.55	---	---	---		8	---	C-2	0.14	0.02	---	4,760	10.87	1.03	0.017	0.531	1.7%	53%	63%	0.00	0.26	0.5%	50%
8-Feb	10.9	0.40	0.40	0.00	0.00	0.00	0.14		---	---	<0.01	0.01	---	4,760			0.000	0.531	0.0%			0.00	0.26	-0.2%	
8-Feb	11.5	0.52	0.52	---	---	---		9	---	---	0.09	0.04	6.74	5,000	11.42	1.16	0.011	0.542	1.1%	54%	64%	0.01	0.26	1.0%	51%
9-Feb	11.1	0.40	0.40	0.00	0.00	0.00	0.13		---	---	<0.01	<0.01	---	5,000			0.000	0.542	0.0%			0.00	0.26	0.0%	
9-Feb	11.4	0.42	0.42	---	---	---		10	---	---	0.10	0.04	---	4,400	10.05	1.27	0.011	0.553	1.1%	55%	66%	0.00	0.27	0.9%	52%
10-Feb	11.3	0.40	0.40	0.00	0.00	0.00	0.13		---	---	<0.01	<0.01	---	4,400			0.000	0.553	0.0%			0.00	0.27	0.0%	
10-Feb	11.5	0.37	0.37	---	---	---		11	---	---	0.06	0.01	---	4,980	11.38	1.40	0.008	0.561	0.8%	56%	67%	0.00	0.27	0.2%	52%
13-Feb	10.9	0.27	0.27	0.00	0.00	1.60	0.13		---	---	<0.01	<0.01	---	4,980			0.000	0.561	0.0%			0.00	0.27	0.0%	
13-Feb	11.0	0.34	0.34	---	---	---		14	---	---	0.10	0.01	---	4,340	9.91	1.51	0.011	0.572	1.1%	57%	68%	0.00	0.27	0.2%	52%
14-Feb	10.8	0.25	0.25	0.00	0.00	2.50	0.18		1,000	---	<0.01	<0.01	---	4,340			0.000	0.572	0.0%			0.00	0.27	0.0%	
14-Feb	11.1	0.47	0.47	---	---	---		15	---	---	0.20	0.03	---	4,320	9.87	1.62	0.022	0.594	2.2%	59%	71%	0.00	0.27	0.6%	53%
15-Feb	11.2	0.40	0.40	0.00	0.00	1.00	0.22		1,000	---	<0.01	<0.01	---	4,320			0.000	0.594	0.0%			0.00	0.27	0.0%	
15-Feb	11.5	0.54	0.54	---	---	---		16	---	---	0.09	0.01	6.20	5,340	12.20	1.76	0.012	0.606	1.2%	60%	72%	0.00	0.28	0.3%	53%
16-Feb	11.1	0.44	0.44	0.00	0.00	0.00	0.20		---	---	<0.01	<0.01	---	5,340			0.000	0.606	0.0%			0.00	0.28	0.0%	
16-Feb	11.3	0.52	0.52	---	---	---		17	---	---	0.05	0.02	---	5,650	12.91	1.90	0.007	0.613	0.7%	61%	73%	0.00	0.28	0.6%	54%
17-Feb	11.3	0.41	0.41	0.00	0.00	0.00	0.17		---	---	<0.01	<0.01	---	5,650			0.000	0.613	0.0%			0.00	0.28	0.0%	
17-Feb	11.5	0.50	0.50	---	---	---		18	---	---	0.05	0.02	---	5,030	11.49	2.03	0.006	0.620	0.6%	62%	74%	0.00	0.28	0.5%	54%
21-Feb	10.4	0.30	0.30	0.00	0.00	1.50	0.17		---	XC-2	0.02	<0.01	---	5,030			-0.003	0.617	-0.3%			0.00	0.28	0.0%	
21-Feb	10.5	0.41	0.41	---	---	---		22	---	C-3	0.09	<0.01	---	5,860	13.39	2.18	0.013	0.631	1.3%	63%	75%	0.00	0.28	0.0%	54%
22-Feb	10.6	0.29	0.29	0.00	0.00	1.80	0.20		---	---	<0.01	<0.01	---	5,860			0.000	0.631	0.0%			0.00	0.28	0.0%	
22-Feb	11.1	0.40	0.40	---	---	---		23	---	---	0.14	0.02	6.96	4,330	9.89	2.29	0.015	0.646	1.5%	64%	77%	0.00	0.28	0.4%	55%
23-Feb	10.7	0.34	0.34	0.00	0.00	2.10	0.24		1,000	---	<0.01	<0.01	---	4,330			0.000	0.646	0.0%			0.00	0.28	0.0%	
23-Feb	11.1	0.57	0.57	---	---	---		24	---	---	<0.01	0.01	---	5,530	12.63	2.43	0.000	0.646	0.0%	64%	77%	0.00	0.28	0.3%	55%
24-Feb	10.6	0.46	0.46	0.00	0.00	0.00	0.26		---	---	<0.01	<0.01	---	5,530			0.000	0.646	0.0%			0.00	0.28	0.0%	
24-Feb	10.8	0.63	0.63	---	---	---		25	---	---	0.06	<0.01	---	5,030	11.49	2.56	0.008	0.654	0.8%	65%	78%	0.00	0.28	0.0%	55%
27-Feb	10.4	0.53	0.53	0.00	0.00	0.00	0.21		---	---	<0.01	<0.01	---	5,030			0.000	0.654	0.0%			0.00	0.28	0.0%	
27-Feb	10.7	0.48	0.48	---	---	---		28	---	---	0.04	<0.01	---	5,650	12.91	2.70	0.006	0.659	0.6%	66%	78%	0.00	0.28	0.0%	55%
28-Feb	10.6	0.40	0.40	0.00	0.00	0.00	0.21		---	---	<0.01	<0.01	---	5,650			0.000	0.659	0.0%			0.00	0.28	0.0%	
28-Feb	10.9	0.45	0.45	---	---	---		29	---	---	0.08	0.01	---	4,370	9.98	2.81	0.009	0.668	0.9%	66%	79%	0.00	0.29	0.2%	55%
29-Feb	10.7	0.38	0.38	0.00	0.00	1.90	0.22		900	---	<0.01	<0.01	---	4,370			0.000	0.668	0.0%			0.00	0.29	0.0%	
29-Feb	11.0	0.43	0.43	---	---	---		30	---	---	0.04	<0.01	6.60	4,830	11.03	2.93	0.005	0.673	0.5%	67%	80%	0.00	0.29	0.0%	55%
1-Mar	10.9	0.41	0.41	0.00	0.00	0.00	0.28		---	---	<0.01	<0.01	---	4,830			0.000	0.673	0.0%			0.00	0.29	0.0%	
1-Mar	11.2	0.52	0.52	---	---	---		31	---	---	0.02	<0.01	---	5,820	13.29	3.08	0.003	0.676	0.3%	67%	80%	0.00	0.29	0.0%	55%
2-Mar	10.9	0.40	0.40	0.00	0.00	0.00	0.24		---	---	<0.01	<0.01	---	5,820			0.000	0.676	0.0%			0.00	0.29	0.0%	
2-Mar	11.2	0.52	0.52	---	---	---		32	---	---	0.04	0.01	---	4,320	9.87	3.19	0.004	0.681	0.4%	68%	81%	0.00	0.29	0.2%	55%
5-Mar	10.5	0.33	0.33	0.00	0.00	2.20	0.23		1,000	---	0.01	<0.01	---	4,320			-0.001	0.680	-0.1%			0.00	0.29	0.0%	
5-Mar	10.7	0.36	0.36	---	---	---		35	---	---	0.10	0.01	---	5,440	12.43	3.33	0.014	0.693	1.4%	69%	82%	0.00	0.29	0.3%	56%
6-Mar	10.6	0.28	0.28	0.00	0.00	1.70	0.30		---	---	<0.01	<0.01	---	5,440			0.000	0.693	0.0%			0.00	0.29	0.0%	
6-Mar	10.8	0.55	0.55	---	---	---		36	---	---	0.02	<0.01	---	3,950	9.02	3.43	0.002	0.695	0.2%	69%	83%	0.00	0.29	0.0%	56%
7-Mar	11.0	0.44	0.44	0.00	0.00	1.30	0.32		1,300	---	<0.01	<0.01	---	3,950			0.000	0.695	0.0%			0.00	0.29	0.0%	
7-Mar	11.2	0.47	0.47	---	---	---		37	---	---	0.01	0.01	5.65	6,320	14.44	3.59	0.002	0.697	0.2%	69%	83%	0.00	0.29	0.3%	56%
8-Mar	10.6	0.42	0.42	0.00	0.00	0.00	0.32		---	---	<0.01	<0.01	---	6,320			0.000	0.697	0.0%			0.00	0.29	0.0%	
8-Mar	10.8	0.46	0.46	---	---	---		38	---	---	0.03	0.01	---	4,970	11.35	3.72	0.004	0.701	0.4%	70%	83%	0.00	0.29	0.2%	56%
9-Mar	11.0	0.40	0.40	0.00	0.00	0.00	0.30		---	---	<0.01	<0.01	---	4,970			0.000	0.701	0.0%			0.00	0.29	0.0%	
9-Mar	11.0	0.54	0.54	---	---	---		39	---	---	0.04	<0.01	---	5,890	13.45	3.87	0.006	0.707	0.6%	70%	84%	0.00	0.29	0.0%	56%
12-Mar	10.7	0.30	0.30	0.00	0.00	1.80	0.29		---	XC-3	<0.01	<0.01	---	5,890			0.000	0.707	0.0%			0.00	0.29	0.0%	
12-Mar	10.7	0.35	0.35	---	---	---		42	---	C-4	<0.01	0.01	---	5,270	12.04	4.00	0.000	0.707	0.0%	70%	84%	0.00	0.29	0.3%	56%
13-Mar	10.7	0.26	0.26	0.00	0.00	1.80	0.34		---	---	<0.01	<0.01	---	5,270			0.000	0.707	0.0%			0.00	0.29	0.0%	
13-Mar	10.8	0.31	0.31	---	---	---		43	---	---	0.04	0.03	---	4,330	9.89	4.11	0.004	0.711	0.4%	71%	85%	0.00	0.30	0.6%	57%
14-Mar	10.7	0.25	0.25	0.00	0.00	2.50	0.39		1,000	---	<0.01	<0.01	---	4,330			0.000	0.711	0.0%			0.00	0.30	0.0%	
14-Mar	10.8	0.61	0.61	---	---	---		44	---	---	0.04	0.01	5.53	4,980	11.38	4.24	0.005	0.716	0.5%	71%	85%	0.00	0.30	0.2%	57%
15-Mar	10.7	0.54	0.54	0.00	0.00	0.00	0.41		---	---	<0.01	<0.01	---	4,980			0.000	0.716	0.0%			0.00	0.30	0.0%	
15-Mar	11.0	0.46	0.46	---	---	---		45	---	---	0.01	<0.01	---	4,870	11.12	4.36	0.001	0.718	0.1%	71%	85%	0.00	0.30	0.0%	57%
16-Mar	10.7	0.40	0.40	0.00	0.00	0.00	0.38		---	---	<0.01	<0.01	---	4,870			0.000	0.718	0.0%			0.00	0.30	0.0%	
16-Mar	10.7	0.59	0.59	---	---	---		46	---	---	0.02	<0.01	---	5,080	11.60	4.49	0.003	0.720	0.3%	72%	86%	0.00	0.30	0.0%	57%
19-Mar	10.7	0.40	0.40	0.00	0.00	0.00	0.38		---	---	<0.01	<0.01	---	5,080			0.000	0.720	0.0%			0.00	0.30	0.0%	
19-Mar	10.6	0.42	0.42	---	---	---		49	---	---	<0.01	0.01	---	4,120	9.41	4.60	0.000	0.720	0.0%	72%	86%	0.00	0.30	0.2%	57%
20-Mar	10.5	0.29	0.29	0.00	0.00	2.50	0.38		1,200	---	<0.01	<0.01	---	4,120			0.000	0.720	0.0%			0.00	0.30	0.0%	

Project:	Eagle Gold																								
Sample Description:	Environmental Composite																								
Test No.:	63322								**Columns run at 3˚C to 4˚C**																
Sample I.D.:	48158																								
Initial Ht., meters:	1.56																								
Crush Size, mm:	9.5																								
Column I.D., meters:	0.152																								

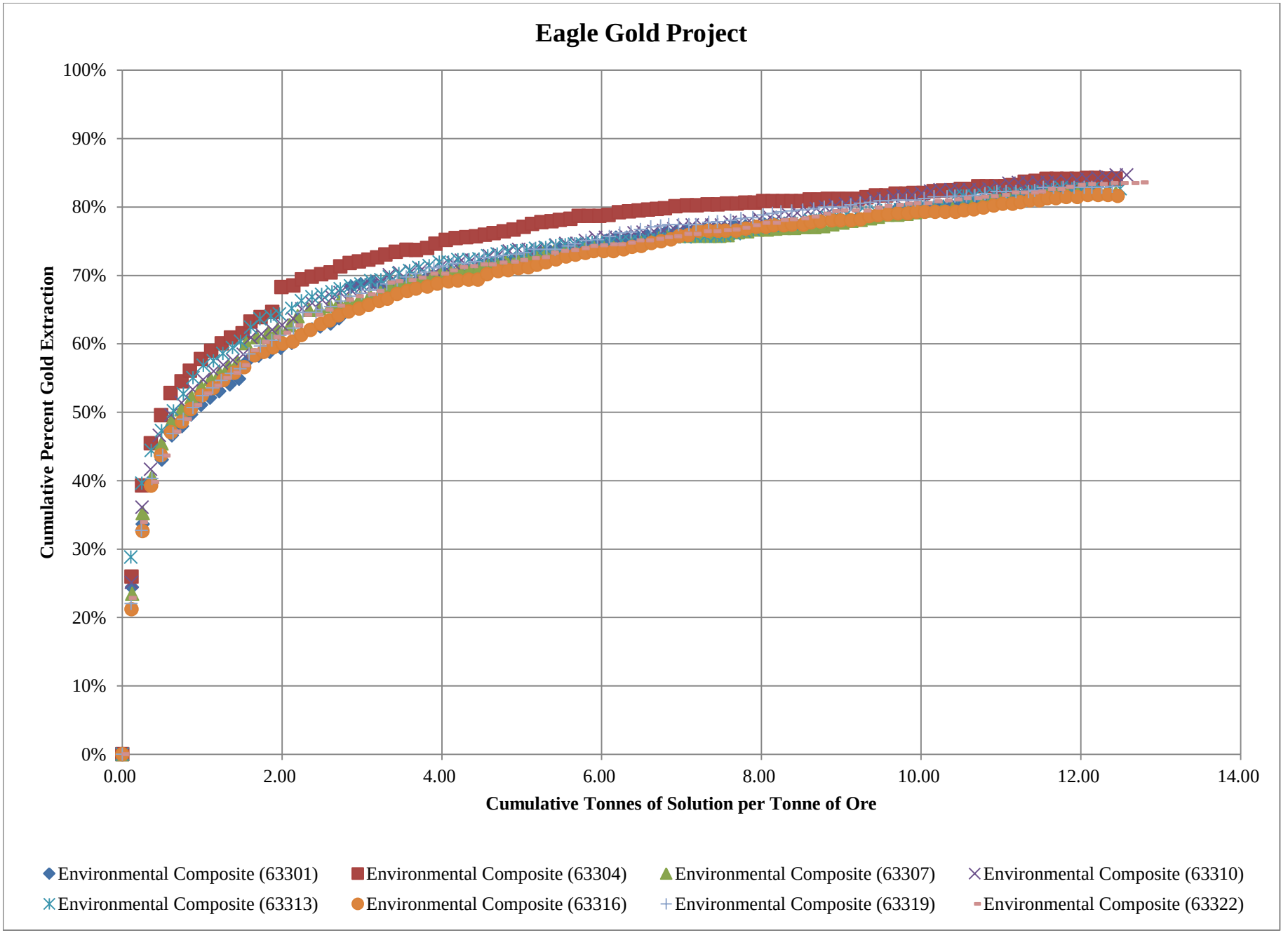
Head Screen, gms Au/MT:	1.077		gms Ag/MT:	0.56																					
Head Assay, gms Au/MT:	1.041		gms Ag/MT:	0.62																					
Extracted, gms Au/MT:	0.841		gms Ag/MT:	0.33																					
Tail Assay, gms Au/MT:	0.165		gms Ag/MT:	0.19																					
Calculated Head, gms Au/MT:	1.006		gms Ag/MT:	0.52																					
Est. Weight of Sample, kg:	39.28																								
Column Surface Area, square meters:	0.018																								
Cement Addition, grams:	118.86		kg/MT:	3.03																					
Hydrated Lime Addition, grams:	0.00		kg/MT:	0.00																					

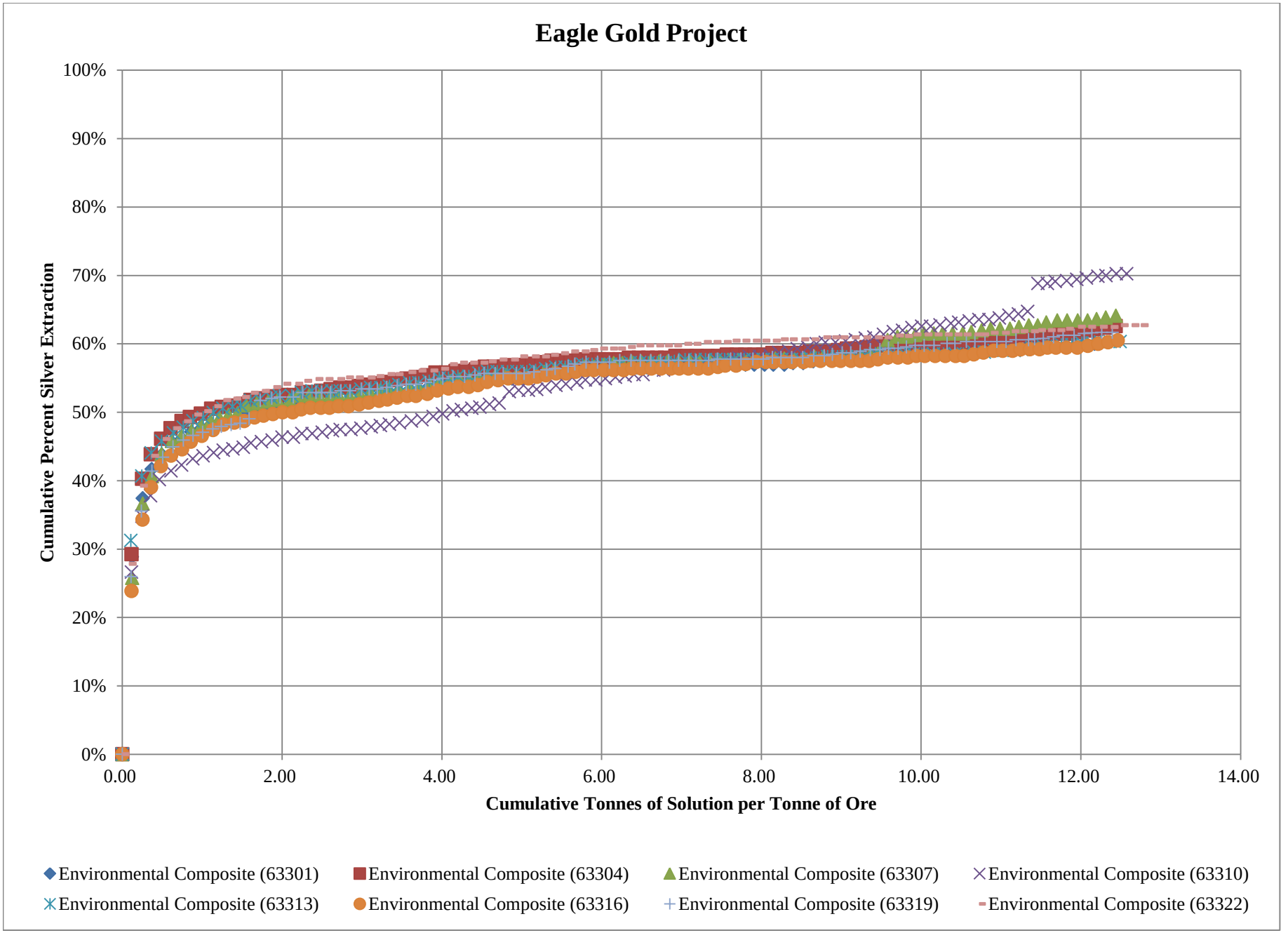
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
20-Mar	10.4	0.45	0.45	---	---	---		50	---	---	0.02	0.01	---	5,300	12.11	4.73	0.003	0.723	0.3%	72%	86%	0.00	0.30	0.3%	58%
21-Mar	10.4	0.40	0.40	0.00	0.00	5.30	0.43		5,300	---	<0.01	<0.01	---	5,300			0.000	0.723	0.0%			0.00	0.30	0.0%	
21-Mar	10.8	0.42	0.42	---	---	---		51	---	---	0.01	<0.01	4.77	5,680	12.97	4.88	0.001	0.724	0.1%	72%	86%	0.00	0.30	0.0%	58%
22-Mar	10.8	0.30	0.30	0.00	0.00	1.70	0.54		---	---	<0.01	<0.01	---	5,680			0.000	0.724	0.0%			0.00	0.30	0.0%	
22-Mar	11.0	0.68	0.68	---	---	---		52	---	---	0.02	0.02	---	4,540	10.37	4.99	0.002	0.727	0.2%	72%	86%	0.00	0.30	0.4%	58%
23-Mar	10.9	0.60	0.60	0.00	0.00	0.00	0.56		---	---	<0.01	<0.01	---	4,540			0.000	0.727	0.0%			0.00	0.30	0.0%	
23-Mar	11.1	0.78	0.78	---	---	---		53	---	---	0.02	<0.01	---	5,700	13.02	5.14	0.003	0.729	0.3%	73%	87%	0.00	0.30	0.0%	58%
26-Mar	10.7	0.61	0.61	0.00	0.00	0.00	0.49		---	---	<0.01	<0.01	---	5,700			0.000	0.729	0.0%			0.00	0.30	0.0%	
26-Mar	10.7	0.53	0.53	---	---	---		56	---	---	0.01	<0.01	---	4,910	11.22	5.26	0.001	0.731	0.1%	73%	87%	0.00	0.30	0.0%	58%
27-Mar	10.7	0.40	0.40	0.00	0.00	0.00	0.49		---	---	<0.01	<0.01	---	4,910			0.000	0.731	0.0%			0.00	0.30	0.0%	
27-Mar	10.8	0.60	0.60	---	---	---		57	---	---	0.06	0.01	---	4,470	10.21	5.38	0.007	0.738	0.7%	73%	88%	0.00	0.30	0.2%	58%
28-Mar	10.7	0.51	0.51	0.00	0.00	0.80	0.51		800	---	<0.01	<0.01	---	4,470			0.000	0.738	0.0%			0.00	0.30	0.0%	
28-Mar	10.8	0.52	0.52	---	---	---		58	---	---	0.02	0.01	4.39	5,000	11.42	5.50	0.003	0.740	0.3%	74%	88%	0.00	0.30	0.2%	59%
29-Mar	10.7	0.40	0.40	0.00	0.00	0.00	0.51		---	---	<0.01	<0.01	---	5,000			0.000	0.740	0.0%			0.00	0.30	0.0%	
29-Mar	10.8	0.43	0.43	---	---	---		59	---	---	0.01	0.01	---	4,970	11.35	5.63	0.001	0.741	0.1%	74%	88%	0.00	0.31	0.2%	59%
2-Apr	10.5	0.30	0.30	0.00	0.00	1.50	0.51		---	---	<0.01	<0.01	---	4,970			0.000	0.741	0.0%			0.00	0.31	0.0%	
2-Apr	10.5	0.35	0.35	---	---	---		63	---	---	0.02	<0.01	---	5,100	11.65	5.76	0.003	0.744	0.3%	74%	88%	0.00	0.31	0.0%	59%
3-Apr	10.6	0.25	0.25	0.00	0.00	1.80	0.56		---	---	<0.01	<0.01	---	5,100			0.000	0.744	0.0%			0.00	0.31	0.0%	
3-Apr	10.7	0.35	0.35	---	---	---		64	---	---	0.03	0.01	---	4,280	9.78	5.87	0.003	0.747	0.3%	74%	89%	0.00	0.31	0.2%	59%
4-Apr	10.7	0.26	0.26	0.00	0.00	2.50	0.60		1,000	---	<0.01	<0.01	---	4,280			0.000	0.747	0.0%			0.00	0.31	0.0%	
4-Apr	10.8	0.47	0.47	---	---	---		65	---	---	0.01	0.01	4.17	4,770	10.90	5.99	0.001	0.748	0.1%	74%	89%	0.00	0.31	0.2%	59%
5-Apr	10.7	0.34	0.34	0.00	0.00	1.20	0.64		---	---	<0.01	<0.01	---	4,770			0.000	0.748	0.0%			0.00	0.31	0.0%	
5-Apr	10.8	0.75	0.75	---	---	---		66	---	---	0.01	<0.01	---	4,960	11.33	6.12	0.001	0.750	0.1%	75%	89%	0.00	0.31	0.0%	59%
6-Apr	10.7	0.58	0.58	0.00	0.00	0.00	0.60		---	---	<0.01	<0.01	---	4,960			0.000	0.750	0.0%			0.00	0.31	0.0%	
6-Apr	10.5	0.44	0.44	---	---	---		67	---	---	<0.01	<0.01	---	3,870	8.84	6.22	0.000	0.750	0.0%	75%	89%	0.00	0.31	0.0%	59%
9-Apr	10.4	0.38	0.38	0.00	0.00	2.30	0.60		1,400	---	<0.01	<0.01	---	3,870			0.000	0.750	0.0%			0.00	0.31	0.0%	
9-Apr	10.7	0.56	0.56	---	---	---		70	---	---	0.02	0.01	---	4,860	11.10	6.34	0.002	0.752	0.2%	75%	89%	0.00	0.31	0.2%	60%
10-Apr	10.4	0.40	0.40	0.00	0.00	0.00	0.66		---	---	<0.01	<0.01	---	4,860			0.000	0.752	0.0%			0.00	0.31	0.0%	
10-Apr	10.5	0.61	0.61	---	---	---		71	---	---	0.03	0.01	---	4,280	9.78	6.45	0.003	0.755	0.3%	75%	90%	0.00	0.31	0.2%	60%
11-Apr	10.5	0.48	0.48	0.00	0.00	1.00	0.63		100	---	<0.01	<0.01	---	4,280			0.000	0.755	0.0%			0.00	0.31	0.0%	
11-Apr	10.4	0.41	0.41	---	---	---		72	---	---	<0.01	<0.01	3.75	4,680	10.69	6.57	0.000	0.755	0.0%	75%	90%	0.00	0.31	0.0%	60%
12-Apr	10.5	0.40	0.40	0.00	0.00	0.00	0.66		---	---	<0.01	<0.01	---	4,680			0.000	0.755	0.0%			0.00	0.31	0.0%	
12-Apr	10.5	0.45	0.45	---	---	---		73	---	---	0.02	<0.01	---	5,050	11.54	6.70	0.003	0.758	0.3%	75%	90%	0.00	0.31	0.0%	60%
13-Apr	10.5	0.40	0.40	0.00	0.00	0.00	0.65		---	---	<0.01	<0.01	---	5,050			0.000	0.758	0.0%			0.00	0.31	0.0%	
13-Apr	10.5	0.38	0.38	---	---	---		74	---	---	0.02	<0.01	---	4,280	9.78	6.81	0.002	0.760	0.2%	76%	90%	0.00	0.31	0.0%	60%
16-Apr	10.3	0.25	0.25	0.00	0.00	2.50	0.66		1,000	---	<0.01	<0.01	---	4,280			0.000	0.760	0.0%			0.00	0.31	0.0%	
16-Apr	10.2	0.32	0.32	---	---	---		77	---	---	0.01	<0.01	---	4,480	10.23	6.92	0.001	0.761	0.1%	76%	91%	0.00	0.31	0.0%	60%
17-Apr	10.1	0.25	0.25	0.00	0.00	2.40	0.74		800	---	<0.01	<0.01	---	4,480			0.000	0.761	0.0%			0.00	0.31	0.0%	
17-Apr	10.2	0.38	0.38	---	---	---		78	---	---	0.03	0.01	---	5,030	11.49	7.05	0.004	0.765	0.4%	76%	91%	0.00	0.31	0.2%	60%
18-Apr	10.4	0.34	0.34	0.00	0.00	1.30	0.78		---	---	<0.01	<0.01	---	5,030			0.000	0.765	0.0%			0.00	0.31	0.0%	
18-Apr	10.3	0.54	0.54	---	---	---		79	---	---	<0.01	<0.01	3.58	4,470	10.21	7.16	0.000	0.765	0.0%	76%	91%	0.00	0.31	0.0%	60%
19-Apr	10.5	0.40	0.40	0.00	0.00	0.80	0.78		800	---	<0.01	<0.01	---	4,470			0.000	0.765	0.0%			0.00	0.31	0.0%	
19-Apr	10.4	0.33	0.33	---	---	---		80	---	---	0.03	0.01	---	5,060	11.56	7.29	0.004	0.769	0.4%	76%	91%	0.00	0.31	0.2%	60%
20-Apr	10.3	0.25	0.25	0.00	0.00	1.80	0.80		---	---	<0.01	<0.01	---	5,060			0.000	0.769	0.0%			0.00	0.31	0.0%	
20-Apr	10.4	0.38	0.38	---	---	---		81	---	---	<0.01	<0.01	---	4,800	10.96	7.41	0.000	0.769	0.0%	76%	91%	0.00	0.31	0.0%	60%
23-Apr	10.3	0.23	0.23	0.00	0.00	1.80	0.84		---	---	<0.01	<0.01	---	4,800			0.000	0.769	0.0%			0.00	0.31	0.0%	
23-Apr	10.2	0.39	0.39	---	---	---		84	---	---	0.01	<0.01	---	5,100	11.65	7.54	0.001	0.770	0.1%	77%	92%	0.00	0.31	0.0%	60%
24-Apr	10.3	0.32	0.32	0.00	0.00	1.40	0.87		---	---	<0.01	<0.01	---	5,100			0.000	0.770	0.0%			0.00	0.31	0.0%	
24-Apr	10.4	0.48	0.48	---	---	---		85	---	---	0.01	0.01	---	4,310	9.84	7.65	0.001	0.771	0.1%	77%	92%	0.00	0.31	0.2%	60%
25-Apr	10.4	0.40	0.40	0.00	0.00	1.00	0.88		1,000	---	<0.01	<0.01	---	4,310			0.000	0.771	0.0%			0.00	0.31	0.0%	
25-Apr	10.3	0.45	0.45	---	---	---		86	---	---	0.02	<0.01	4.85	4,810	10.99	7.77	0.002	0.774	0.2%	77%	92%	0.00	0.31	0.0%	60%
26-Apr	10.3	0.40	0.40	0.00	0.00	0.00	0.89		---	---	<0.01	<0.01	---	4,810			0.000	0.774	0.0%			0.00	0.31	0.0%	
26-Apr	10.4	0.40	0.40	---	---	---		87	---	---	0.03	<0.01	---	5,050	11.54	7.90	0.004	0.778	0.4%	77%	92%	0.00	0.31	0.0%	60%
27-Apr	10.4	0.29	0.29	0.00	0.00	1.60	0.88		---	---	<0.01	<0.01	---	5,050			0.000	0.778	0.0%			0.00	0.31	0.0%	
27-Apr	10.5	0.41	0.41	---	---	---		88	---	---	0.03	<0.01	---	4,770	10.90	8.02	0.004	0.781	0.4%	78%	93%	0.00	0.31	0.0%	60%
30-Apr	10.3	0.28	0.28	0.00	0.00	1.50	0.92		---	---	<0.01	<0.01	---	4,770			0.000	0.781	0.0%			0.00	0.31	0.0%	
30-Apr	10.3	0.27	0.27	---	---	---		91	---	---	<0.01	<0.01	---	5,050	11.54	8.15	0.000	0.781	0.0%	78%	93%	0.00	0.31	0.0%	60%
1-May	10.3	0.22	0.22	0.00	0.00	1.90	0.96		---	---	<0.01	<0.01	---	5,050			0.000	0.781	0.0%			0.00	0.31	0.0%	
1-May	10.3	0.44	0.44	---	---	---		92	---	---	0.04	0.01	---	4,030	9.21	8.26	0.004	0.785	0.4%	78%	93%	0.00	0.31	0.2%	61%
2-May	10.5	0.36	0.36	0.00	0.00	2.30	1.00		1,300	---	<0.01	<0.01	---	4,030			0.000	0.785	0.0%			0.00	0.31	0.0%	
2-May	10.3	0.55	0.55	---	---	---		93	---	---	0.01	<0.01	4.89	4,390	10.03	8.37	0.001	0.787	0.1%	78%	94%	0.00	0.31	0.0%	61%
3-May	10.4	0.40	0.40	0.00	0.00	0.90	1.02		900	---	<0.01	<0.01	---	4,390			0.000	0.787	0.0%			0.00	0.31	0.0%	
3-May	10.2	0.53	0.53	---	---	---		94	---	---	0.01	<0.01	---	5,670	12.95	8.51	0.001	0.788	0.1%	78%	94%	0.00	0.31	0.0%	61%
4-May	10.4	0.43	0.43	0.00	0.00	0.00	1.00		---	---	<0.01	<0.01	---	5,670			0.000	0.788	0.0%			0.00	0.31	0.0%	
4-May	10.4	0.49	0.49	---	---	---		95	---	---	0.02	<0.01	---	5,090	11.63	8.64	0.003	0.791	0.3%	79%	94%	0.00	0.31	0.0%	61%
7-May	10.4	0.32	0.32	0.00	0.00	1.40	0.99		---	---	<0.01	<0.01	---	5,090			0.000	0.791	0.0%			0.00	0.31	0.0%	
7-May	10.4	0.30	0.30	---	---	---		98	---	---	0.03	0.01	---	5,640	12.88	8.78	0.004	0.795	0.4%	79%	95%	0.00	0.32	0.3%	61%
8-May	10.4	0.25	0.25	0.00	0.00	2.00	1.04		---	---	<0.01	<0.01	---	5,640			0.000	0.795	0.0%			0.00	0.32	0.0%	
8-May	10.3	0.48	0.48	---	---	---		99	---	---	0.03	<0.01	---	4,430	10.12	8.90	0.003	0.798	0.3%	79%	95%	0.00	0.32	0.0%	61%
9-May	10.3	0.40	0.40	0.00	0.00	0.90	1.08		900	---	<0.01	<0.01	---	4,430			0.000	0.798	0.0%			0.00	0.32	0.0%	
9-May	10.2	0.53	0.53	---	---	---		100	---	---	0.01	<0.01	5.00	4,120	9.41	9.00	0.001	0.799	0.1%	79%	95%	0.00	0.32	0.0%	61%
10-May	10.4	0.42	0.42	0.00	0.00	1.20	1.08		1,200	---	<0.01	<0.01	---	4,120			0.000	0.799	0.0%			0.00	0.32	0.0%	
10-May	10.3	0.43	0.43	---	---	---		101	---	---	<0.01	<0.01	---	5,530	12.63	9.14	0.000	0.799	0.0%	79%	95%	0.00	0.32	0.0%	61%
11-May	10.4	0.40	0.40	0.00	0.00	0.00	1.09		---	---	<0.01	<0.01	---	5,530			0.000	0.799	0.0%			0.00	0.32	0.0%	
11-May	10.3	0.35	0.35	---	---	---		102	---	---	<0.01	<0.01	---	5,710	13.04	9.29	0.000	0.799	0.0%	79%	95%	0.00	0.32	0.0%	61%

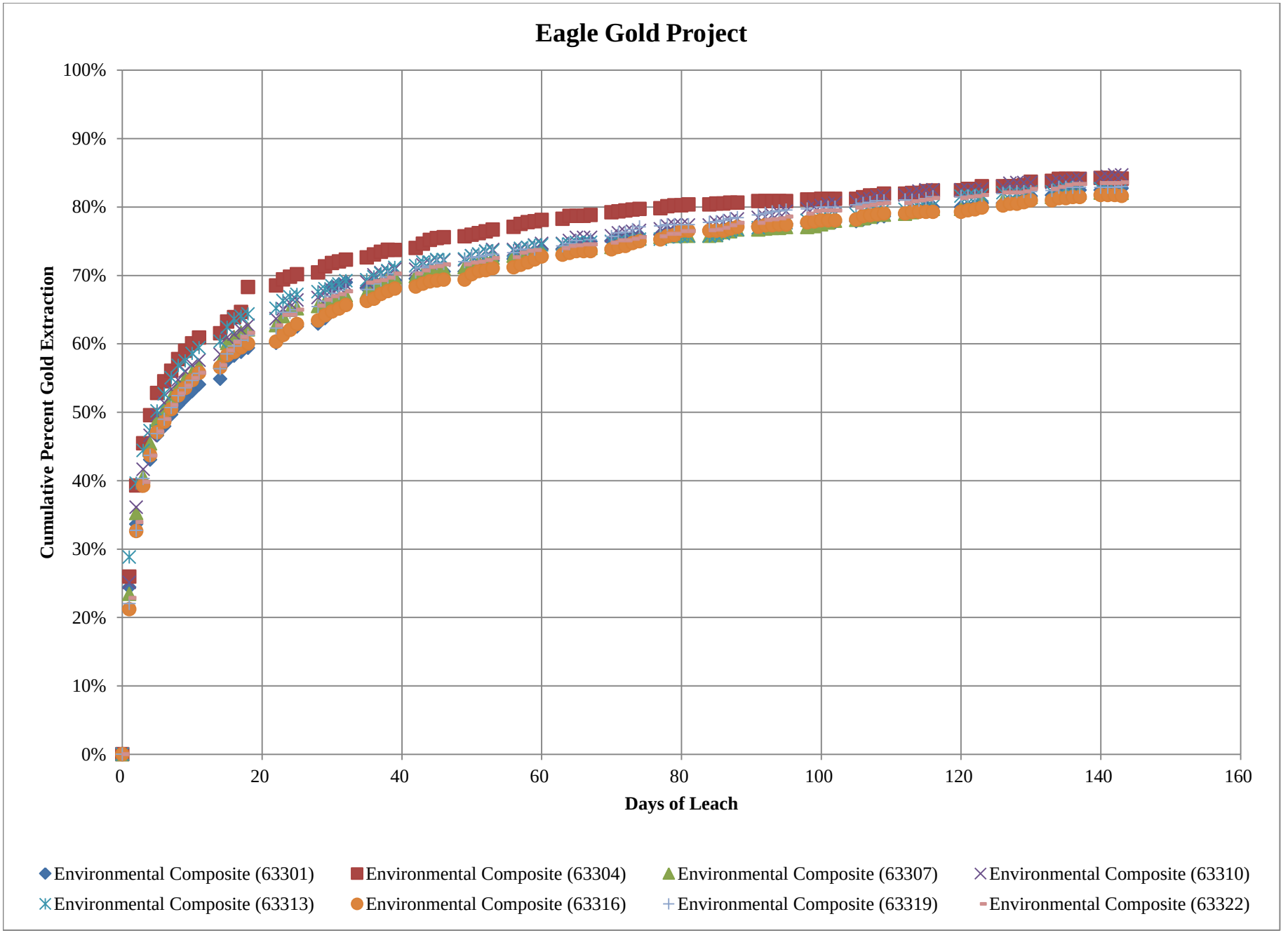
Project:	Eagle Gold																								
Sample Description:	Environmental Composite																								
Test No.:	63322								**Columns run at 3˚C to 4˚C**																
Sample I.D.:	48158																								
Initial Ht., meters:	1.56																								
Crush Size, mm:	9.5																								
Column I.D., meters:	0.152																								

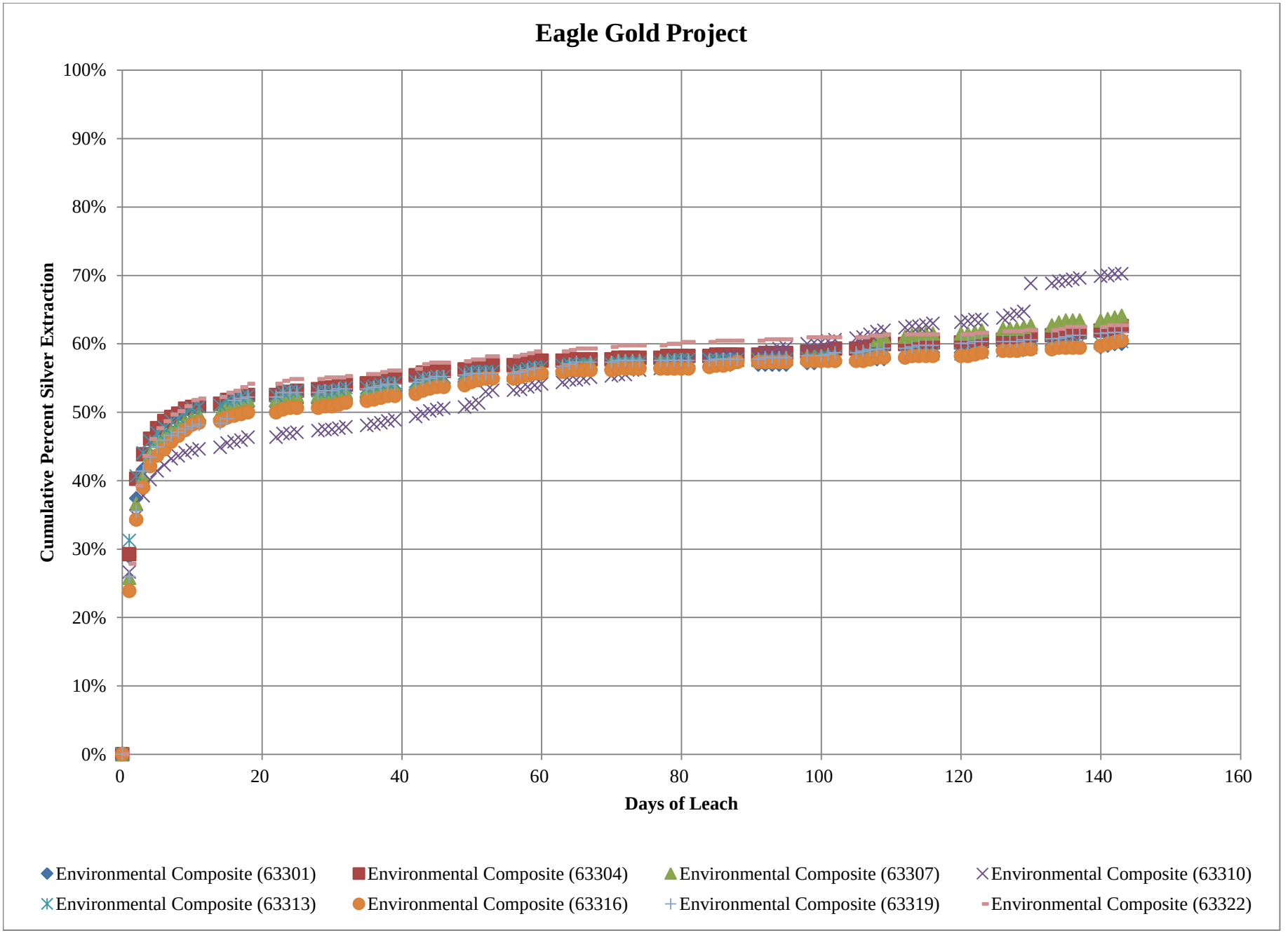
Head Screen, gms Au/MT:	1.077	gms Ag/MT:	0.56
Head Assay, gms Au/MT:	1.041	gms Ag/MT:	0.62
Extracted, gms Au/MT:	0.841	gms Ag/MT:	0.33
Tail Assay, gms Au/MT:	0.165	gms Ag/MT:	0.19
Calculated Head, gms Au/MT:	1.006	gms Ag/MT:	0.52
Est. Weight of Sample, kg:	39.28		
Column Surface Area, square meters:	0.018		
Cement Addition, grams:	118.86	kg/MT:	3.03
Hydrated Lime Addition, grams:	0.00	kg/MT:	0.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Date	pH, units	Free NaCN, gpL	Total NaCN, gpL	$Ca(OH)_2$ Added, grams	Cum. Lime Added, kg/MT	NaCN Added, grams	Cum. NaCN Consumed, kg/MT	Days Run	Water Added, grams	Carbon Bottle	Au, mg/L	Ag, mg/L	Cu, mg/L	Volume, mLs	Flow Rate Preg, L/Hr/M^2	Cum. T Sol'n. / T Ore	Solution, gms Au/MT	Solution Cumulative Extraction, gms Au/MT	Extracted Gold Solution	Cumulative Extracted Gold Solution	Percent of Total Extracted Gold	Solution, gms Ag/MT	Solution Cumulative Extraction, gms Ag/MT	Extracted Silver Solution	Cumulative Extracted Silver Solution
14-May	10.3	0.22	0.22	0.00	0.00	2.20	1.09		---	---	<0.01	<0.01	---	5,710			0.000	0.799	0.0%			0.00	0.32	0.0%	
14-May	10.4	0.36	0.36	---	---	---		105	---	---	0.03	<0.01	---	5,620	12.84	9.43	0.004	0.804	0.4%	80%	96%	0.00	0.32	0.0%	61%
15-May	10.4	0.29	0.29	0.00	0.00	1.70	1.15		---	---	<0.01	<0.01	---	5,620			0.000	0.804	0.0%			0.00	0.32	0.0%	
15-May	10.3	0.54	0.54	---	---	---		106	---	---	0.02	<0.01	---	4,740	10.83	9.55	0.002	0.806	0.2%	80%	96%	0.00	0.32	0.0%	61%
16-May	10.4	0.41	0.41	0.00	0.00	0.00	1.16		---	---	<0.01	<0.01	---	4,740			0.000	0.806	0.0%			0.00	0.32	0.0%	
16-May	10.4	0.55	0.55	---	---	---		107	---	---	0.01	0.01	4.89	5,690	13.00	9.70	0.001	0.808	0.1%	80%	96%	0.00	0.32	0.3%	61%
17-May	10.4	0.40	0.40	0.00	0.00	0.00	1.12		---	---	0.01	0.01	---	5,690			-0.001	0.806	-0.1%			0.00	0.32	-0.3%	
17-May	10.3	0.43	0.43	---	---	---		108	---	---	0.03	0.01	---	4,350	9.94	9.81	0.003	0.809	0.3%	80%	96%	0.00	0.32	0.2%	61%
18-May	10.3	0.36	0.36	0.00	0.00	1.00	1.12		---	---	<0.01	<0.01	---	4,350			0.000	0.809	0.0%			0.00	0.32	0.0%	
18-May	10.2	0.33	0.33	---	---	---		109	---	---	0.01	0.01	---	4,200	9.59	9.91	0.001	0.810	0.1%	81%	96%	0.00	0.32	0.2%	61%
21-May	10.3	0.21	0.21	0.00	0.00	2.70	1.17		1,100	---	<0.01	<0.01	---	4,200			0.000	0.810	0.0%			0.00	0.32	0.0%	
21-May	10.4	0.29	0.29	---	---	---		112	---	---	<0.01	<0.01	---	5,480	12.52	10.05	0.000	0.810	0.0%	81%	96%	0.00	0.32	0.0%	61%
22-May	10.3	0.22	0.22	0.00	0.00	2.10	1.23		---	---	<0.01	<0.01	---	5,480			0.000	0.810	0.0%			0.00	0.32	0.0%	
22-May	10.3	0.54	0.54	---	---	---		113	---	---	0.02	<0.01	---	4,960	11.33	10.18	0.003	0.813	0.3%	81%	97%	0.00	0.32	0.0%	61%
23-May	10.4	0.42	0.42	0.00	0.00	0.00	1.24		---	---	<0.01	<0.01	---	4,960			0.000	0.813	0.0%			0.00	0.32	0.0%	
23-May	10.4	0.37	0.37	---	---	---		114	---	---	0.01	<0.01	---	4,920	11.24	10.31	0.001	0.814	0.1%	81%	97%	0.00	0.32	0.0%	61%
24-May	10.5	0.30	0.30	0.00	0.00	1.50	1.22		---	---	<0.01	<0.01	---	4,920			0.000	0.814	0.0%			0.00	0.32	0.0%	
24-May	10.4	0.46	0.46	---	---	---		115	---	---	0.01	<0.01	---	4,870	11.12	10.43	0.001	0.815	0.1%	81%	97%	0.00	0.32	0.0%	61%
25-May	10.4	0.40	0.40	0.00	0.00	0.00	1.26		---	---	<0.01	<0.01	---	4,870			0.000	0.815	0.0%			0.00	0.32	0.0%	
25-May	10.3	0.47	0.47	---	---	---		116	---	---	0.02	<0.01	---	4,430	10.12	10.54	0.002	0.818	0.2%	81%	97%	0.00	0.32	0.0%	61%
29-May	10.3	0.25	0.25	0.00	0.00	2.50	1.24		900	---	<0.01	<0.01	---	4,430			0.000	0.818	0.0%			0.00	0.32	0.0%	
29-May	10.3	0.24	0.24	---	---	---		120	---	---	<0.01	<0.01	---	5,330	12.17	10.68	0.000	0.818	0.0%	81%	97%	0.00	0.32	0.0%	61%
30-May	10.3	0.22	0.22	0.00	0.00	2.00	1.32		---	---	<0.01	<0.01	---	5,330			0.000	0.818	0.0%			0.00	0.32	0.0%	
30-May	10.2	0.49	0.49	---	---	---		121	---	---	0.02	<0.01	5.45	3,420	7.81	10.77	0.002	0.819	0.2%	81%	97%	0.00	0.32	0.0%	61%
31-May	10.3	0.36	0.36	0.00	0.00	2.70	1.36		1,900	---	<0.01	<0.01	---	3,420			0.000	0.819	0.0%			0.00	0.32	0.0%	
31-May	10.2	0.47	0.47	---	---	---		122	---	---	0.01	0.01	---	4,630	10.58	10.88	0.001	0.821	0.1%	82%	98%	0.00	0.32	0.2%	62%
1-Jun	10.3	0.40	0.40	0.00	0.00	0.00	1.40		---	---	<0.01	<0.01	---	4,630			0.000	0.821	0.0%			0.00	0.32	0.0%	
1-Jun	10.3	0.59	0.59	---	---	---		123	---	---	0.01	<0.01	---	5,500	12.56	11.02	0.001	0.822	0.1%	82%	98%	0.00	0.32	0.0%	62%
4-Jun	10.4	0.46	0.46	0.00	0.00	0.00	1.35		---	---	<0.01	<0.01	---	5,500			0.000	0.822	0.0%			0.00	0.32	0.0%	
4-Jun	10.3	0.34	0.34	---	---	---		126	---	---	0.03	0.01	---	4,790	10.94	11.15	0.004	0.826	0.4%	82%	98%	0.00	0.32	0.2%	62%
5-Jun	10.4	0.25	0.25	0.00	0.00	1.70	1.35		---	---	<0.01	<0.01	---	4,790			0.000	0.826	0.0%			0.00	0.32	0.0%	
5-Jun	10.3	0.32	0.32	---	---	---		127	---	---	<0.01	<0.01	---	4,400	10.05	11.26	0.000	0.826	0.0%	82%	98%	0.00	0.32	0.0%	62%
6-Jun	10.2	0.26	0.26	0.00	0.00	2.40	1.43		900	---	<0.01	<0.01	---	4,400			0.000	0.826	0.0%			0.00	0.32	0.0%	
6-Jun	10.3	0.41	0.41	---	---	---		128	---	---	<0.01	<0.01	5.06	5,090	11.63	11.39	0.000	0.826	0.0%	82%	98%	0.00	0.32	0.0%	62%
7-Jun	10.4	0.40	0.40	0.00	0.00	0.00	1.46		---	---	<0.01	<0.01	---	5,090			0.000	0.826	0.0%			0.00	0.32	0.0%	
7-Jun	10.3	0.43	0.43	---	---	---		129	---	---	0.02	0.01	---	3,480	7.95	11.48	0.002	0.827	0.2%	82%	98%	0.00	0.32	0.2%	62%
8-Jun	10.4	0.32	0.32	0.00	0.00	1.00	1.45		---	---	<0.01	<0.01	---	3,480			0.000	0.827	0.0%			0.00	0.32	0.0%	
8-Jun	10.4	0.40	0.40	---	---	---		130	---	---	0.03	<0.01	4.73	4,740	10.83	11.60	0.004	0.831	0.4%	83%	99%	0.00	0.32	0.0%	62%
11-Jun	10.5	0.27	0.27	0.00	0.00	0.00	1.48		600	---	<0.01	0.01	---	4,740			0.000	0.831	0.0%			0.00	0.32	-0.2%	
11-Jun	10.5	0.32	0.32	---	---	---		133	---	---	<0.01	0.01	---	4,730	10.80	11.72	0.000	0.831	0.0%	83%	99%	0.00	0.32	0.2%	62%
12-Jun	10.5	0.26	0.26	0.00	0.00	0.00	1.47		600	---	0.02	<0.01	---	4,730			-0.002	0.829	-0.2%			0.00	0.32	0.0%	
12-Jun	10.3	0.23	0.23	---	---	---		134	---	---	0.05	0.01	---	4,180	9.55	11.82	0.005	0.834	0.5%	83%	99%	0.00	0.32	0.2%	62%
13-Jun	10.3	0.23	0.23	0.00	0.00	0.00	1.48		1,100	---	<0.01	<0.01	---	4,180			0.000	0.834	0.0%			0.00	0.32	0.0%	
13-Jun	10.4	0.27	0.27	---	---	---		135	---	---	0.02	0.01	4.90	5,930	13.55	11.97	0.003	0.837	0.3%	83%	100%	0.00	0.32	0.3%	62%
14-Jun	10.2	0.14	0.14	0.00	0.00	0.00	1.47		---	---	<0.01	<0.01	---	5,930			0.000	0.837	0.0%			0.00	0.32	0.0%	
14-Jun	10.3	0.16	0.16	---	---	---		136	---	---	0.01	<0.01	---	5,080	11.60	12.10	0.001	0.838	0.1%	83%	100%	0.00	0.32	0.0%	62%
15-Jun	10.1	0.14	0.14	0.00	0.00	0.00	1.47		---	---	<0.01	<0.01	---	5,080			0.000	0.838	0.0%			0.00	0.32	0.0%	
15-Jun	10.1	0.17	0.17	---	---	---		137	---	---	<0.01	<0.01	---	5,740	13.11	12.25	0.000	0.838	0.0%	83%	100%	0.00	0.32	0.0%	62%
18-Jun	10.1	0.12	0.12	0.00	0.00	0.00	1.47		---	---	<0.01	0.01	---	5,740			0.000	0.838	0.0%			0.00	0.32	-0.3%	
18-Jun	10.1	0.12	0.12	---	---	---		140	---	---	0.01	0.01	---	5,240	11.97	12.38	0.001	0.840	0.1%	83%	100%	0.00	0.32	0.3%	62%
19-Jun	10.1	0.08	0.08	0.00	0.00	0.00	1.47		---	---	<0.01	<0.01	---	5,240			0.000	0.840	0.0%			0.00	0.32	0.0%	
19-Jun	10.2	0.09	0.09	---	---	---		141	---	---	<0.01	0.01	---	5,050	11.54	12.51	0.000	0.840	0.0%	83%	100%	0.00	0.32	0.2%	63%
20-Jun	10.0	0.07	0.07	0.00	0.00	0.00	1.48		---	---	<0.01	0.01	---	5,050			0.000	0.840	0.0%			0.00	0.32	-0.2%	
20-Jun	10.0	0.08	0.08	---	---	---		142	---	---	<0.01	0.01	4.19	5,210	11.90	12.64	0.000	0.840	0.0%	83%	100%	0.00	0.33	0.3%	63%
21-Jun	10.0	0.05	0.05	0.00	0.00	0.00	1.48		---	---	<0.01	<0.01	---	5,210			0.000	0.840	0.0%			0.00	0.33	0.0%	
21-Jun	10.0	0.08	0.08	---	---	---		143	---	---	0.01	<0.01	---	4,610	10.53	12.76	0.001	0.841	0.1%	84%	100%	0.00	0.33	0.0%	63%
22-Jun	10.0	0.04	0.04	0.00	0.00	0.00	1.48		---	XC-4	<0.01	<0.01	---	4,610			0.000	0.841	0.0%			0.00	0.33	0.0%	


Eagle Gold Project
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Cumulative Percent Gold Extraction
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
Cumulative Tonnes of Solution per Tonne of Ore
Environmental Composite (63301)
Environmental Composite (63304)
Environmental Composite (63307)
Environmental Composite (63310)
Environmental Composite (63313)
Environmental Composite (63316)
Environmental Composite (63319)
Environmental Composite (63322)


Eagle Gold Project
Cumulative Percent Silver Extraction
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
Cumulative Tonnes of Solution per Tonne of Ore
Environmental Composite (63301)
Environmental Composite (63304)
Environmental Composite (63307)
Environmental Composite (63310)
Environmental Composite (63313)
Environmental Composite (63316)
Environmental Composite (63319)
Environmental Composite (63322)


Eagle Gold Project
Cumulative Percent Gold Extraction
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
20
40
60
80
100
120
140
160
Days of Leach
Environmental Composite (63301)
Environmental Composite (63304)
Environmental Composite (63307)
Environmental Composite (63310)
Environmental Composite (63313)
Environmental Composite (63316)
Environmental Composite (63319)
Environmental Composite (63322)


Eagle Gold Project
Cumulative Percent Silver Extraction
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
20
40
60
80
100
120
140
160
Days of Leach
Environmental Composite (63301)
Environmental Composite (63304)
Environmental Composite (63307)
Environmental Composite (63310)
Environmental Composite (63313)
Environmental Composite (63316)
Environmental Composite (63319)
Environmental Composite (63322)

Eagle Gold Project
Report of Metallurgical Test Work
December 2013
Appendix B: Volume 1, 2 & 3

Available Upon Request

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Report I.D.: KCA0120021_EG05_01

Appendix D: Procedure for Kinetic Testing of Eagle Gold Metallurgical Test Column

Procedure for Kinetic Testing of Eagle Gold Metallurgical Test Columns

Once detoxification of the Dublin Gulch metallurgical columns were completed, the columns were converted to modified humidity cell tests to evaluate the potential for dissolution and mobility of chemical constituents from the spent heap material within the column.

The following procedure for the modified large-scale humidity cell tests was used for the 2009 test HC7B and the 2012/13 tests 63301, 63316, and 63322. The 2009 and 2012/13 tests reflect metallurgical testing on two different ore samples. 63301 was subjected to a biological detox procedure, while 63316 and 63322 were subjected to chemical detox. 63322 was completed under cold conditions, (4°C), while the other tests were all at room temperature.

The tests involved the sequential leaching of the spent ore material through a regular cycle of exposure to wet air in a controlled laboratory environment. This test simulated the interaction of meteoric water with the spent heap leach material under field conditions and was designed to produce a weekly effluent that was submitted for major and trace element chemistry. This procedure was not intended to generate data for the evaluation of long term depletion of solutes within the column or for the determination of the potential for acid generating potential and rate of sulfide oxidation. Separate humidity cell tests were conducted on the feed material to address these data requirements (HC7 and HC12).

Procedure Summary

The modified humidity cell tests were conducted using the metallurgical column immediately following complete detoxification of the heap material. The standard Humidity Cell Test procedure (ASTM D 5744) was modified to account for differences between a standard humidity cell and the large scale humidity cell that was conducted in the metallurgical column set-up. These differences included a larger column, greater sample volume, lower rock to water ratio and larger grain size for the large scale humidity cell in comparison to the standard humidity cell.

Similar to the ASTM methodology, the tests were run for a minimum of 20 weeks (30 cycles for HC7B and 36 cycles at the time of reporting for the more recent tests) and followed a seven-day cycle. During the seven-day cycle, water-saturated air (approximately 95% relative humidity) was introduced at the bottom of the column. Following the humid air cycle, distilled water was drip applied to the column and the extracted solution collected for analysis. Key parameters including pH, alkalinity/acidity, electrical conductivity, iron and sulfate were measured on a weekly basis in addition to major and trace element analysis of the effluent by an offsite laboratory. In HC7B, the frequency of major and trace element analysis was reduced after 10 weeks of testing. Once a month a split sample was sent to a second laboratory for QA/QC measures and to obtain lower detection limits for key parameters. In the more recent tests, weekly analyses continued throughout testing, and no external duplicates were tested.

At the time of reporting, the more recent tests were still on-going, but they are likely to be terminated after 40 weeks of testing is complete. Once the test is terminated, it is anticipated that the column will be rested for a week and rinsed again to determine if significant salt accumulation occurs during the resting period. Following this final rinse, the column will be dismantled and representative splits of the spent heap material will be obtained for multiple element analysis, acid base accounting and mineralogy to complete the environmental characterization.

Extraction Fluid Type and Volume

The feed or initial leach solution is referred to as the 'extraction fluid' and the column effluent is referred to as the 'effluent'. The extraction fluids consist of distilled water that is purified by distillation, ion exchange, reverse osmosis, electrodialysis or combination thereof to obtain a Type III extraction fluid water at 18 to 27oC (APHA, 1992).

The HCT ASTM does not specify the volume of extraction fluid to be used per a given mass of sample, only that once the weekly volume has been selected, that weekly volume must remain constant throughout the test period. For the purposes of this test, the volume of the extraction fluid was that considered the minimum amount of water required to obtain sufficient effluent for analytical testing (2.25 liters). However, because some of the extraction fluid was lost as moisture in the sample, the weekly extraction fluid volume was first estimated to be 5 liters and refined to 3 liters on cycle #3.

Modified Humidity Cell Test Procedure

The modified humidity cell tests started at the end of the detox and rinse period, with weekly leach cycles. For the first few cycles, 5 liters of extraction fluid was applied to the column using a drip trickle method at a rate slow enough that water did not flood the surface of the column (approximately 4-5 mL/min over a ~24 hour period). From cycle #3 onwards, the volume was adjusted to 3 liters. The column was then allowed to drain down for two days following application of the extraction fluid and the draining effluent was collected in a clean collection vessel. Following the drain down period, the pH of the effluent was measured and the final effluent weight, date and time was recorded.

Following the drain down period, the effluent was mixed to ensure homogeneity and then transferred to a 250 mL sample bottle for analysis in the onsite lab. This sample was analyzed for the following parameters: pH, Eh, alkalinity/acidity, electrical conductivity, iron, and sulfate. Another 1.75 liters of effluent was transferred through a filtration device equipped with a 0.45 mm filter for analysis of dissolved solutes at WetLabs in Reno, Nevada In the following aliquots:

- 500 mLs preserved with nitric acid for metals analysis,
- 250 mLs preserved with sulfuric acid for nutrients analysis, and
- 1 L preserved with sodium hydroxide for cyanide analysis.

In addition a 250 mL aliquot of unfiltered and unpreserved effluent was produced for general chemistry analysis at WetLabs. The complete analytical suites for the WetLab samples are provided in Tables D1 and D2 along with the method detection limits (MDL).

Following the leachate cycle, was the wet-air portion of the weekly cycle during which the feed air was routed through a water filled humidifier and metered to the bottom of the column at a constant low influx rate (1 to 10 L/min depending upon column conditions). The feed air line contained an oil/water trap in advance of the flowmeter. The water temperature in the humidifier was maintained at 30 + 2°C to ensure the sparged air maintained a relative humidity of approximately 95%. The duration of the wet-air cycle was 4 days.

On the seventh day following the 4 days of wet-air application, the next leach was conducted using the same method described above.

QA/QC issues

A number of QA/QC issues were identified over the course of the HC7B test, particularly for antimony, uranium and mercury analyses. The descriptions for each parameter are provided below.

- Antimony –the Sb concentration in the solution was high enough that the 200.8 method provided an erroneous result (specifically a very low number). As a result Sb results from method 200.7 were ultimately reported in place of the 200.8 data.
- Uranium – similar to that for antimony, uranium values were initially erroneous; however these were not re-done at WetLabs at the time of reporting, U values relied upon for reporting were the QA/QC values obtained from SGS Canada.
- Mercury – Initially Wetlab conducted mercury analysis with the EPA method 245.1 and reported higher than expected values. The QA/QC values were approximately 1000 times lower. Re-analysis by WetLabs using the cold vapour method obtained a non-detect value, more consistent with QA/QC values. It was determined that the EPA method 245.1 is sensitive to tungsten oxide, which is present in the samples. Therefore, this method reported a false positive for mercury. As with the uranium data, values used for this reporting were only those reported by the QA/QC program conducted at SGS Canada.

The above mentioned issues were addressed throughout the more recent tests by adopting improved methods from the start of testing. Other issues identified over the course of testing were resolved by the laboratory.

Table D1: Analytical Suite for WetLabs – HC7B

Parameter	WETLAB Lowest MDL	Required MDL	Units	Parameter	WETLAB Lowest MDL	Required MDL	Units
pH	0.1	0.1	pH	Cobalt	0.006	0.0001	mg/l
Total Dissolved Solids	1	10	mg/l	Copper	0.001	0.0001	mg/l
Alkalinity, Total	1	2	mg/l	Gallium	0.1	--	mg/l
Bicarbonate	1	--	mg/l	Iron	0.01	0.03	mg/l
Carbonate	1	--	mg/l	Lead	0.0025	0.000005	mg/l
Chloride	0.1	0.5	mg/l	Lithium	0.1	0.005	mg/l
Fluoride	0.05	0.02	mg/l	Magnesium	0.5	0.1	mg/l
Sulfate	0.1	0.5	mg/l	Manganese	0.005	0.00005	mg/l
WAD Cynaide	0.01	0.005	mg/l	Mercury	0.0001	0.00005	mg/l
Total Cyanide	0.01	0.005	mg/l	Molybdenum	0.01	0.00005	mg/l
Cyanate	0.01	--	mg/l	Nickel	0.01	0.0005	mg/l
Thiocynate	0.01	--	mg/l	Phosphorus	0.5	0.3	mg/l
Nitrate Nitrogen	0.1	0.005	mg/l	Potassium	0.5	2	mg/l
Nitrite Nitrogen	0.1	0.001	mg/l	Scandium	0.1	---	mg/l
Ammonia as N	0.05	0.02	mg/l	Selenium	0.003	0.001	mg/l
Total Nitrogen	0.7	0.06	mg/l	Silicon	0.1	0.05	mg/l
Aluminum	0.045	0.001	mg/l	Silver	0.005	0.00001	mg/l
Antimony	0.0006	0.0001	mg/l	Sodium	0.5	2	mg/l
Arsenic	0.001	0.0001	mg/l	Strontium	0.1	0.0001	mg/l
Barium	0.01	0.00005	mg/l	Thallium	0.001	0.00001	mg/l
Beryllium	0.001	0.0005	mg/l	Tin	0.1	0.00001	mg/l
Bismuth	0.1	0.0005	mg/l	Titanium	0.1	0.01	mg/l
Boron	0.1	0.01	mg/l	Uranium	0.002	0.00001	mg/l
Cadmium	0.0003	0.00005	mg/l	Vanadium	0.01	0.001	mg/l
Calcium	0.5	0.05	mg/l	Zinc	0.01	0.001	mg/l
Chromium	0.005	0.0005	mg/l				

Table D2: Analytical Suite for WetLabs – 2012/2013 Tests

Parameter	MRL	Parameter	MRL
pH	--	Cadmium	0.001
Total Dissolved Solids	10	Calcium	0.5
Alkalinity, Total	1	Chromium	0.005
Bicarbonate	1	Cobalt	0.01
Carbonate	1	Copper	0.05
Chloride	1	Gallium	0.1
Fluoride	0.1	Iron	0.01
Sulfate	1	Lead	0.01
WAD Cyanide	0.01	Lithium	0.1
Total Cyanide	0.01	Magnesium	0.5
Cyanate	0.01	Manganese	0.005
Thiocyanate	0.01	Mercury	0.0001
Nitrate Nitrogen	1	Molybdenum	0.005
Nitrite Nitrogen	1	Silica	0.05
Ammonia as N	1	Silver	0.005
Total Nitrogen	1	Sodium	0.5
Aluminum	1	Strontium	0.1
Antimony	0.0025	Thallium	0.001
Arsenic	0.005	Tin	0.1
Barium	0.01	Titanium	0.1
Beryllium	0.001	Uranium	0.002
Bismuth	0.1	Vanadium	0.01
Boron	0.1	Zinc	0.01

Appendix E: X-Ray Diffractometry Results

Appendix E1: X-Ray Diffractometry Results from 2010 Samples

QUANTITATIVE PHASE ANALYSIS OF SIX POWDER SAMPLES USING THE RIETVELD METHOD AND X-RAY POWDER DIFFRACTION DATA.

(Project: 0789 Strata Gold Corp – P.O. 41918)

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July 14, 2009

EXPERIMENTAL METHOD

The six samples of **Project 0789 Strata Gold Corp** were reduced into fine powder to the optimum grain-size range for X-ray analysis (<10μm) grinding under ethanol in a vibratory McCrone Micronising Mill for 7 minutes. Step-scan X-ray powder-diffraction data were collected over a range 3-80°2θ with CoKα radiation on a standard Siemens (Bruker) D5000 Bragg-Brentano diffractometer equipped with an Fe monochromator foil, 0.6 mm (0.3°) divergence slit, incident- and diffracted-beam Soller slits and a Vantec-1 strip detector. The long fine-focus Co X-ray tube was operated at 35 kV and 40 mA, using a take-off angle of 6°.

RESULTS AND DISCUSSION

The X-ray diffractograms were analyzed using the International Centre for Diffraction Database PDF-4 using Search-Match software by Siemens (Bruker). X-ray powder-diffraction data were refined with Rietveld program Topas 3 (Bruker AXS).

The results of quantitative phase analysis by Rietveld refinement are given in Table 1. These amounts represent the relative amounts of crystalline phases normalized to 100%. The Rietveld refinement plots for the samples are shown in Figures 1 – 6.

Table 1. Results of quantitative phase analysis (wt.%)

Mineral	**Ideal formula**	**DG07-303C 175.26-185.93**	**DG07-305C 1.52-9.14**	**DG07-305C 169.03-178.31**	**DG07-331C 52.92-62.30**	**DG07-331C 99.97-109.12**	**DG07-335C 103.02-113.69**
Quartz	SiO_2	38.6	19.0	32.6	46.4	30.0	27.2
Muscovite	$KAl_2AlSi_3O_{10}(OH)_2$	9.2	15.9	4.5	14.3	3.0	
Biotite	$K(Mg,Fe)_3(AlSi_3O_{10})(OH)_2$		14.3	5.8	8.4	6.7	11.4
Clinochlore	$(Mg,Fe^{2+})_5Al(Si_3Al)O_{10}(OH)_8$	3.3	3.1	4.3	3.0	4.5	5.2
Actinolite	$Ca_2(Mg,Fe^{2+})_5Si_8O_{22}(OH)_2$		3.0				5.1
K-feldspar	$KAlSi_3O_8$	21.4	9.8	23.6	11.5	28.2	15.4
Plagioclase	$NaAlSi_3O_8 – CaAl_2Si_2O_8$	22.9	23.7	27.1	13.7	23.9	34.5
Calcite	$CaCO_3$	2.2	1.5	2.0	0.7	3.2	1.2
Dolomite/Ankerite	$CaMg(CO_3)_2/Ca(Fe^{2+},Mg,Mn)(CO_3)_2$	2.1	1.0				
Siderite	$Fe^{2+}CO_3$					0.5	
Andalusite	Al_2SiO_5		1.6		1.9		
Diopside	$CaMgSi_2O_6$		7.1				
Pyrite ?	FeS_2	0.4					
Total		100.0	100.0	100.0	100.0	100.0	100.0

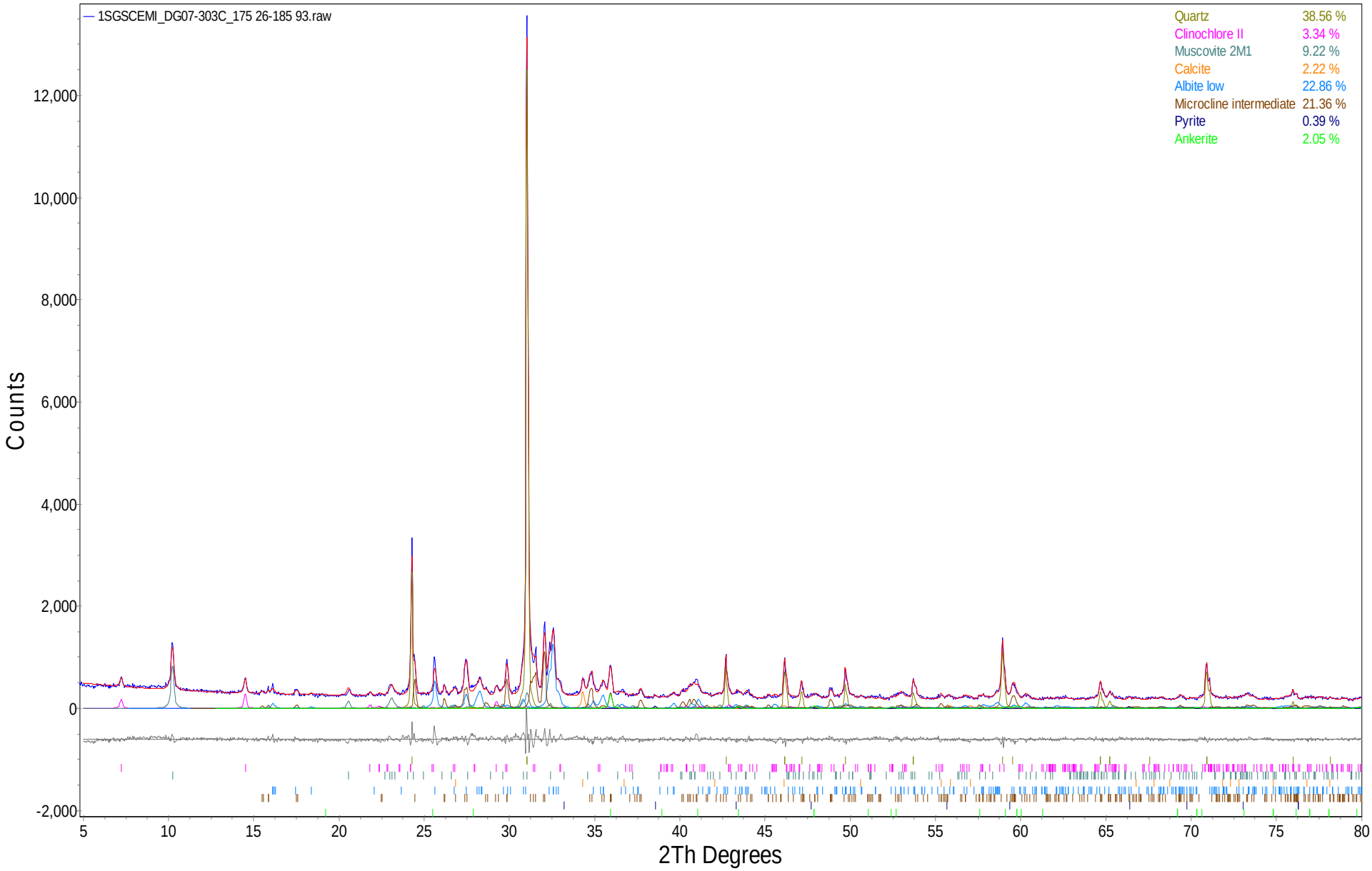


Figure 1. Rietveld refinement plot of sample **SGS CEMI "DG07-303C 175.26-185.93"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

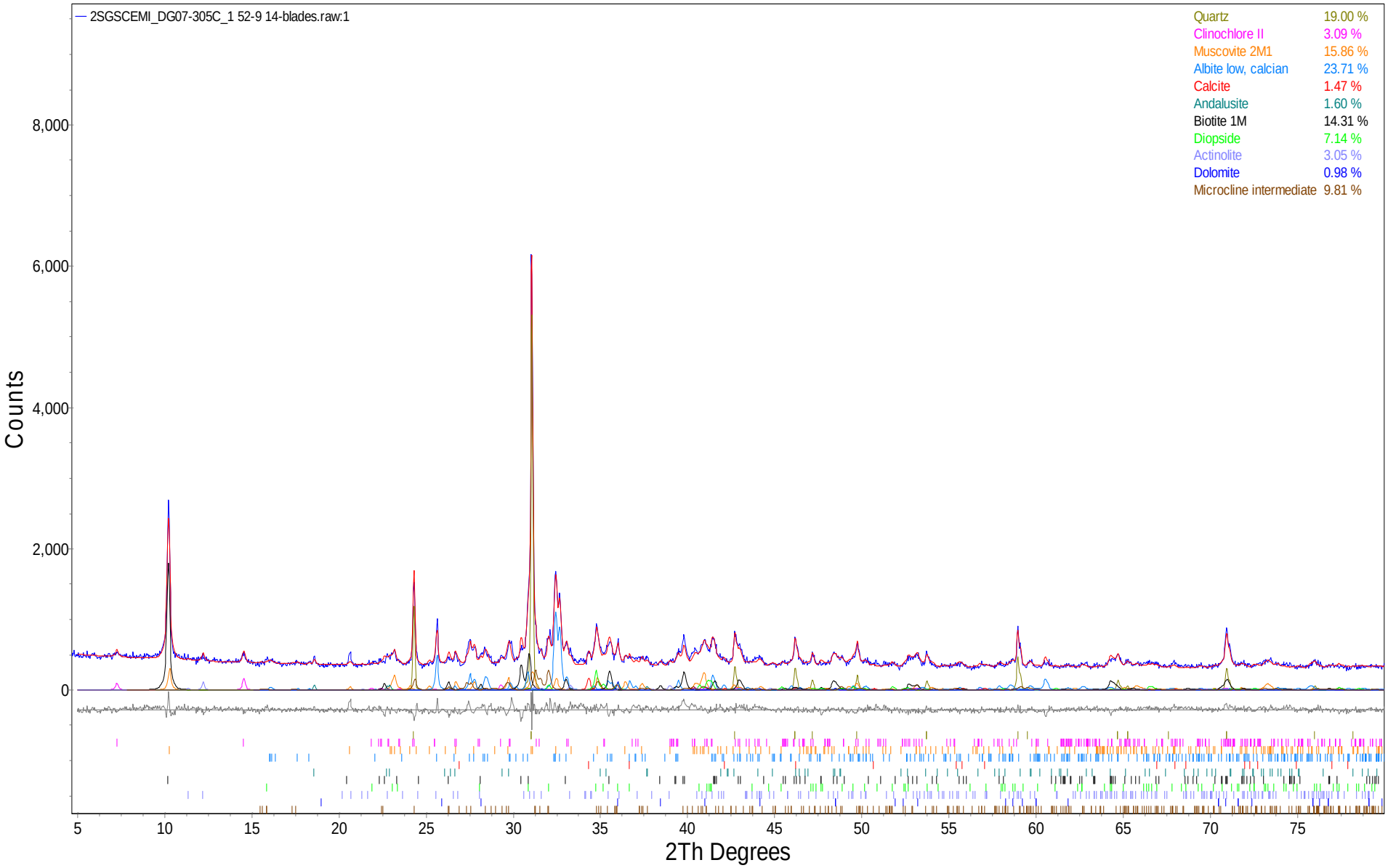


Figure 2. Rietveld refinement plot of sample **SGS CEMI "DG07-305C 1.52-9.14"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

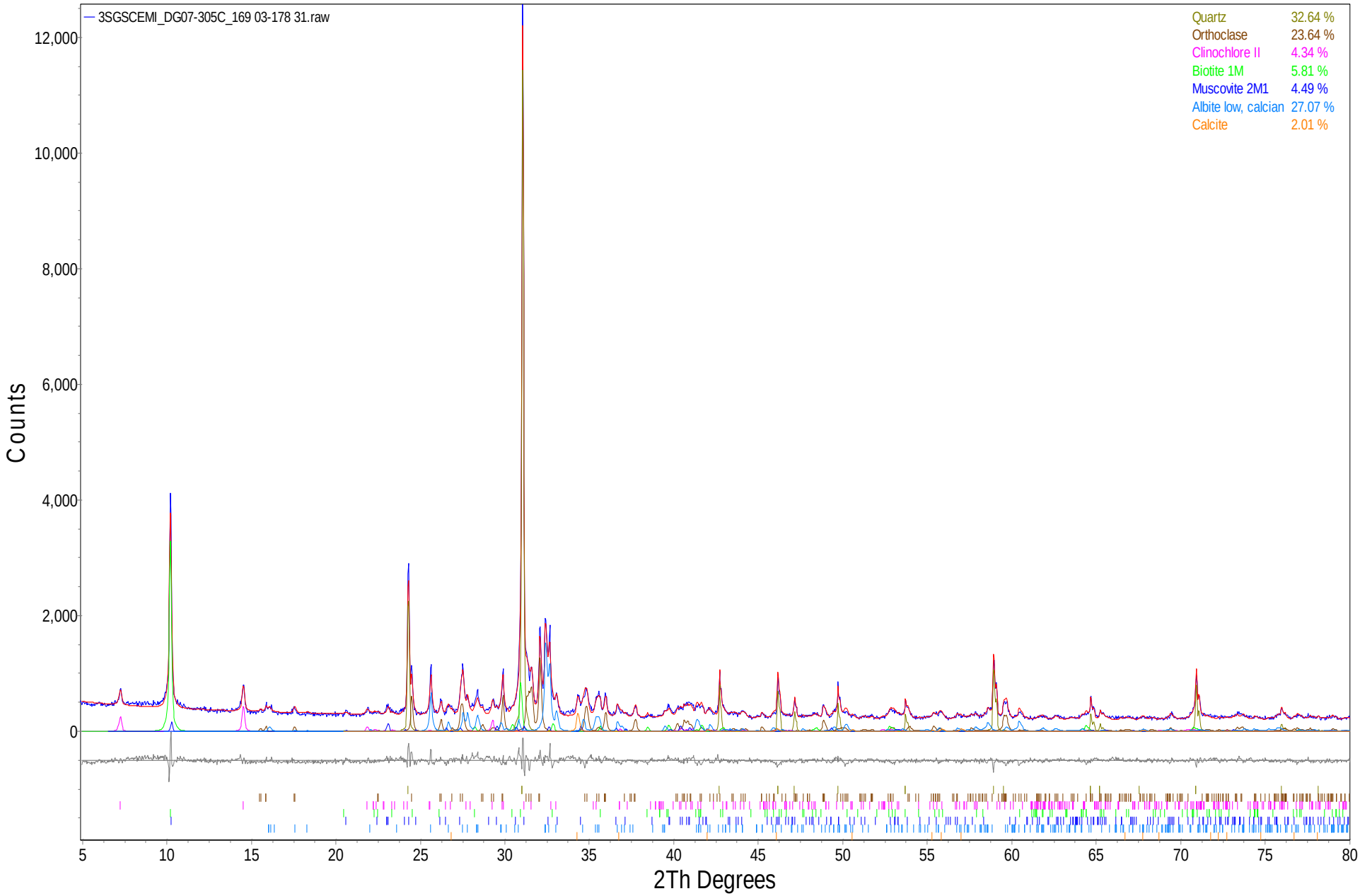


Figure 3. Rietveld refinement plot of sample **SGS CEMI "DG07-305C 169.03-178.31"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

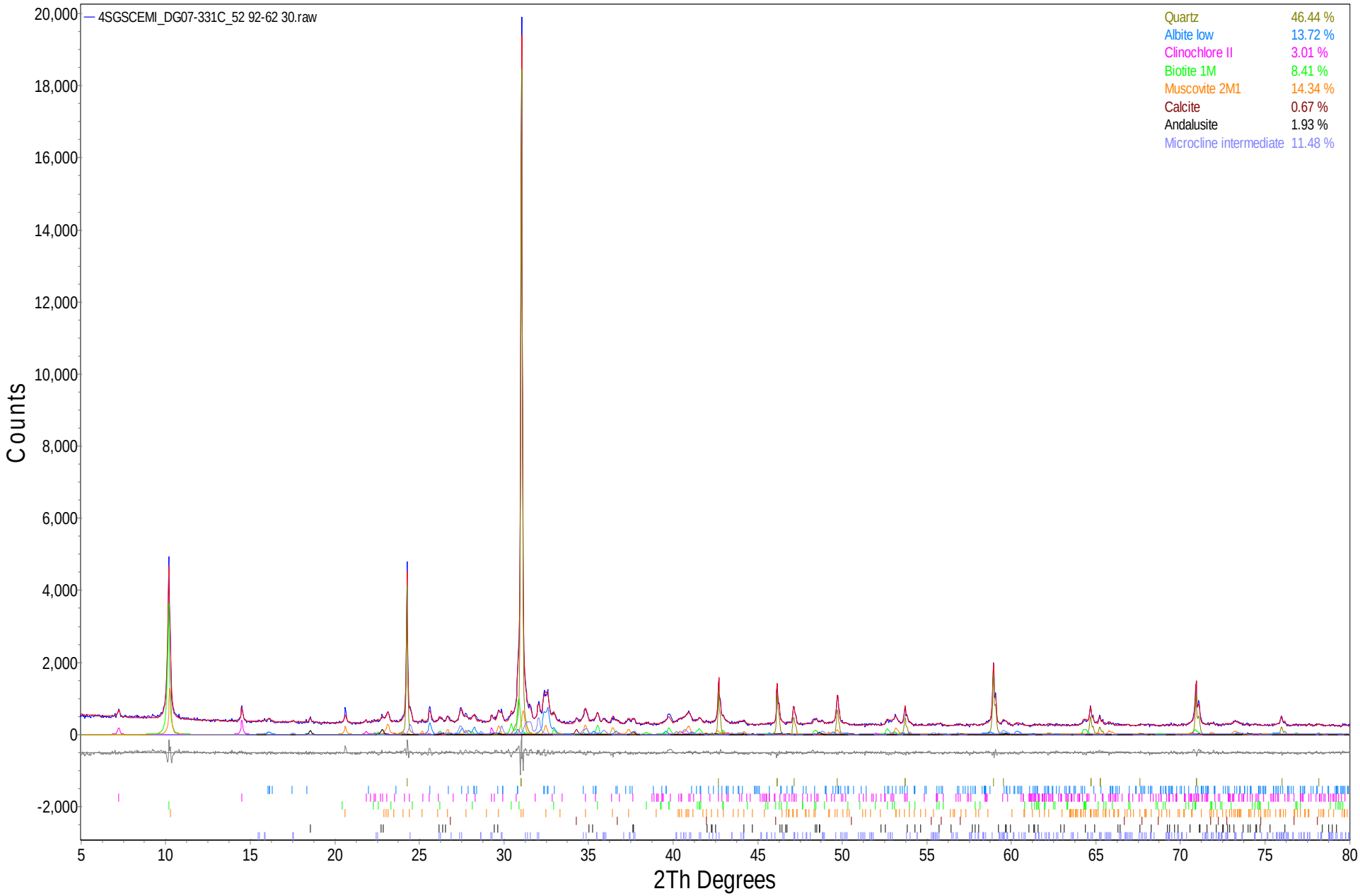


Figure 4. Rietveld refinement plot of sample **SGS CEMI "DG07-331C 52.92-62.30"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

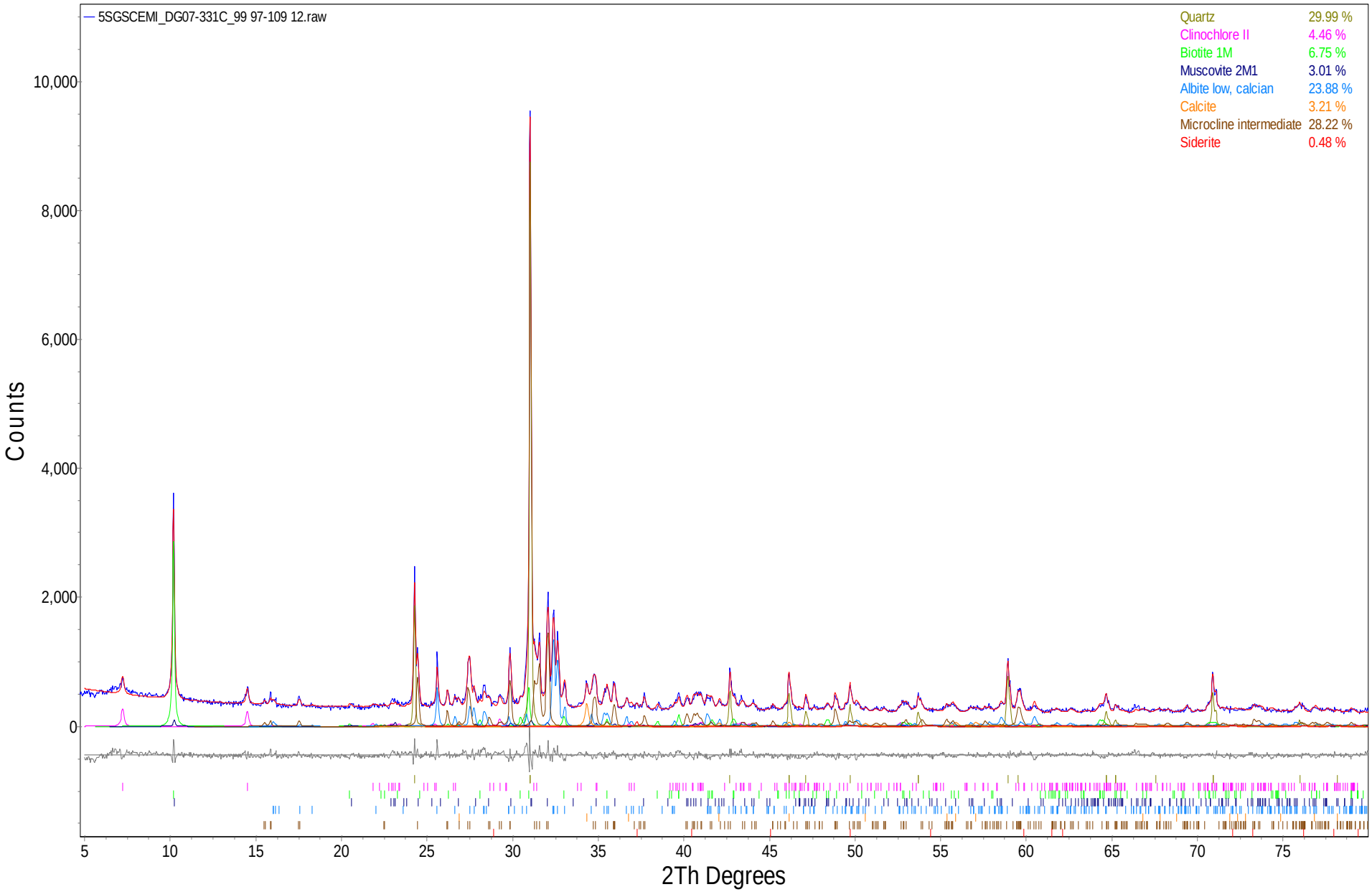


Figure 5. Rietveld refinement plot of sample **SGS CEMI "DG07-331C 99.97-109.12"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

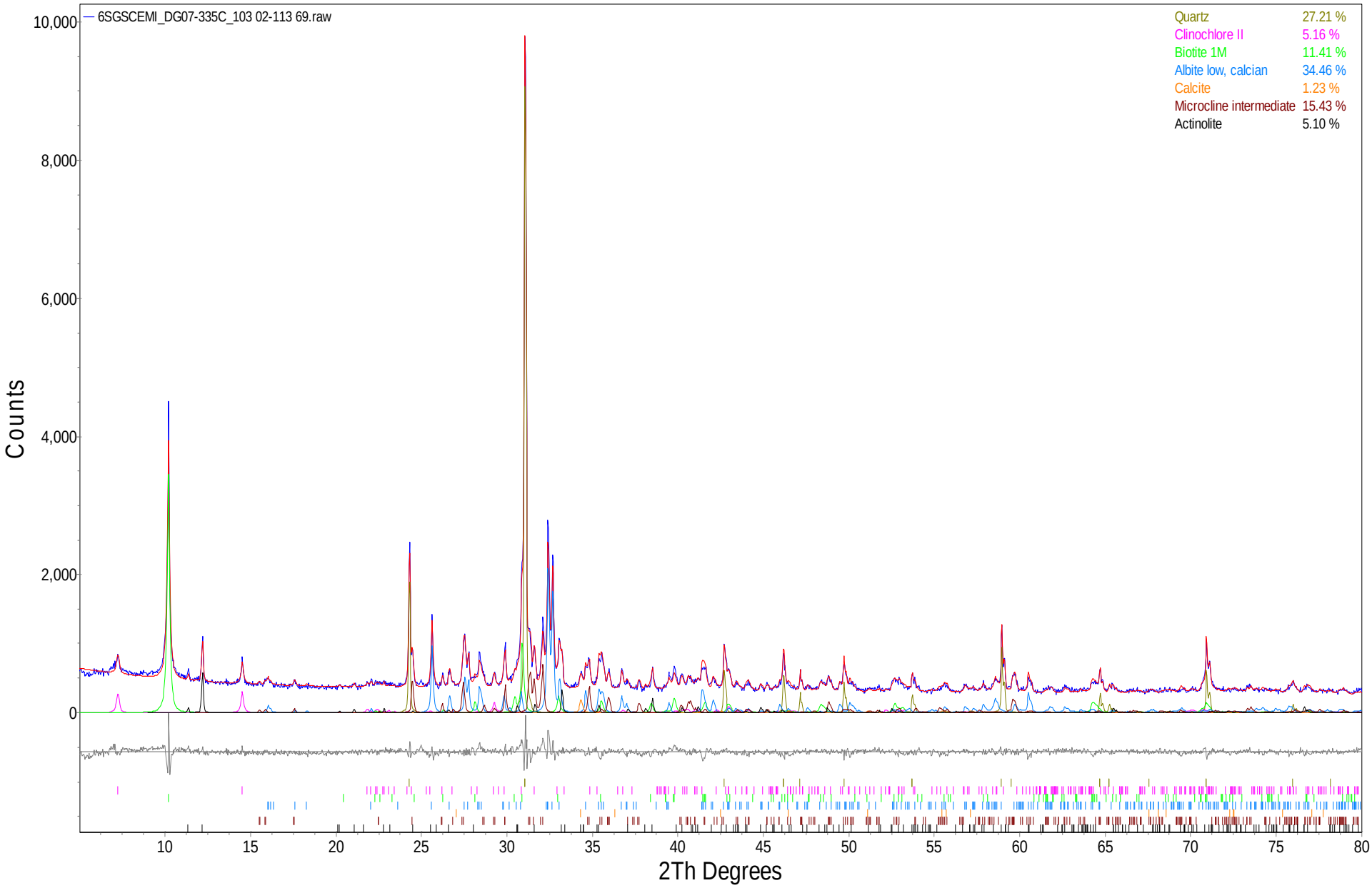


Figure 6. Rietveld refinement plot of sample **SGS CEMI "DG07-335C 103.02-113.69"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

QUANTITATIVE PHASE ANALYSIS OF FOUR POWDER SAMPLES USING THE RIETVELD METHOD AND X-RAY POWDER DIFFRACTION DATA.

(Project: 0789 StrataGold Corp – PO# 42045)

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January 22, 2010

EXPERIMENTAL METHOD

The four samples of **Project 0789 StrataGold Corp** were reduced to the optimum grain-size range for quantitative X-ray analysis (<10 μm) by grinding under ethanol in a vibratory McCrone Micronising Mill for 7 minutes. Step-scan X-ray powder-diffraction data were collected over a range 3-80°2θ with CoKa radiation on a Bruker D8 Focus Bragg-Brentano diffractometer equipped with an Fe monochromator foil, 0.6 mm (0.3°) divergence slit, incident- and diffracted-beam Soller slits and a LynxEye detector. The long fine-focus Co X-ray tube was operated at 35 kV and 40 mA, using a take-off angle of 6°.

RESULTS

The X-ray diffractograms were analyzed using the International Centre for Diffraction Database PDF-4 and Search-Match software by Siemens (Bruker). X-ray powder-diffraction data of the samples were refined with Rietveld program Topas 4.2 (Bruker AXS). The results of quantitative phase analysis by Rietveld refinements are given in Table 1. These amounts represent the relative amounts of crystalline phases normalized to 100%. The Rietveld refinement plots are shown in Figures 1 – 4.

Table 1. Results of quantitative phase analysis (wt.%)

Mineral	**Ideal Formula**	**DG05-308C 125.00-128.00**	**DG05-308C 12.19-18.00**	**DG06-311C 130.45-140.45**	**DG07-327C 24.69-33.83**
Quartz	SiO_2	41.3	32.4	35.7	34.6
Clinochlore	$(Mg,Fe^{2+})_5Al(Si_3Al)O_{10}(OH)_8$	4.4	3.2	3.0	
Muscovite	$KAl_2AlSi_3O_{10}(OH)_2$	24.0	16.5		5.9
Biotite	$K(Mg,Fe)_3(AlSi_3O_{10})(OH)_2$		11.1	5.6	2.5
Plagioclase	$NaAlSi_3O_8 – CaAl_2Si_2O_8$	13.3	13.9	28.0	19.7
K-Feldspar	$KAlSi_3O_8$	16.2	19.0	26.0	28.6
Kaolinite	$Al_2Si_2O_5(OH)_4$				5.6
Calcite	$CaCO_3$	0.7	0.5	1.7	3.3
Andalusite	Al_2SiO_5		3.5		
Sphalerite ?	(Zn,Fe)S			0.1	
Total		100.0	100.0		

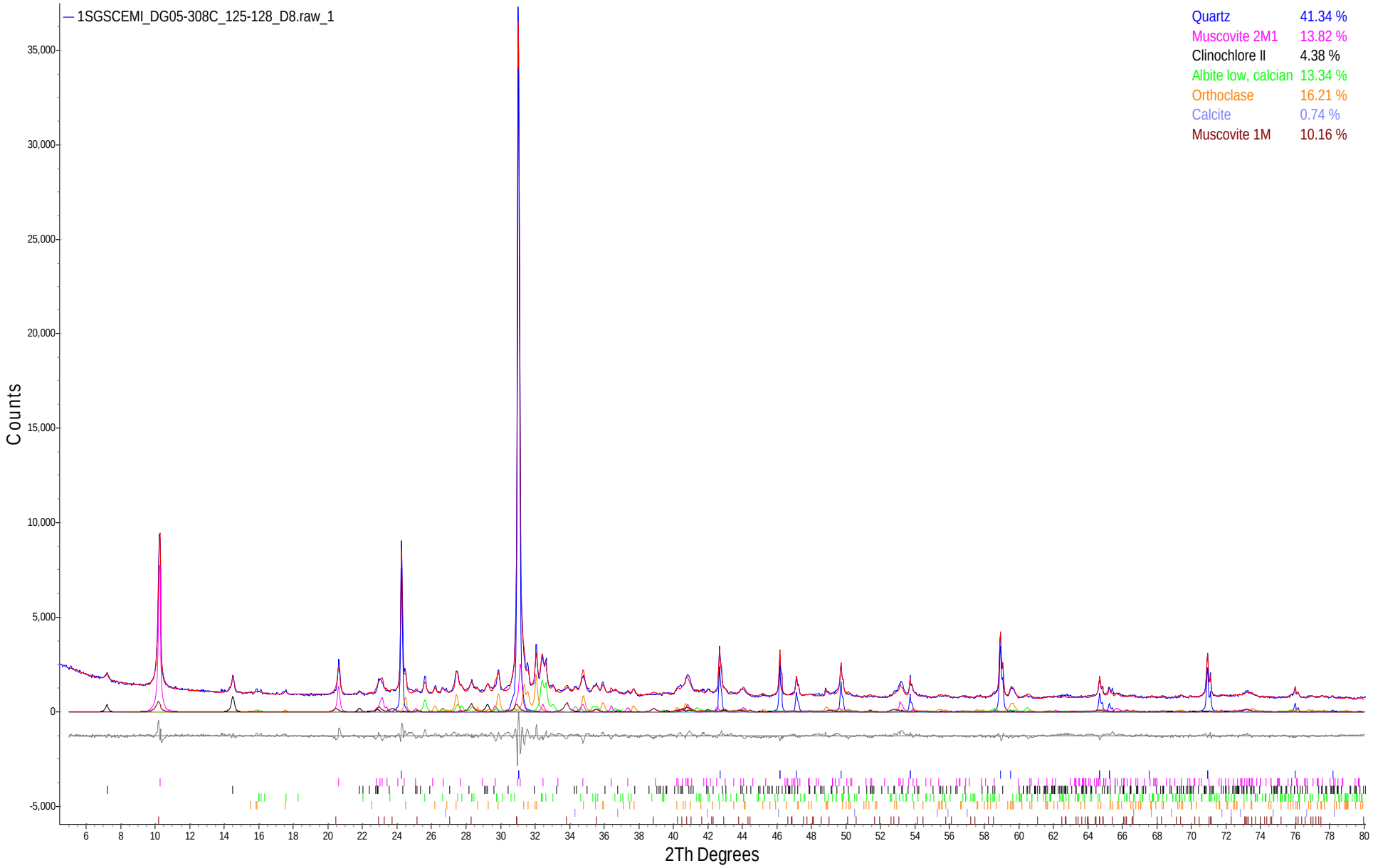


Figure 1. Rietveld refinement plot of sample **SGS CEMI "DG05-308C 125.00-128.00"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

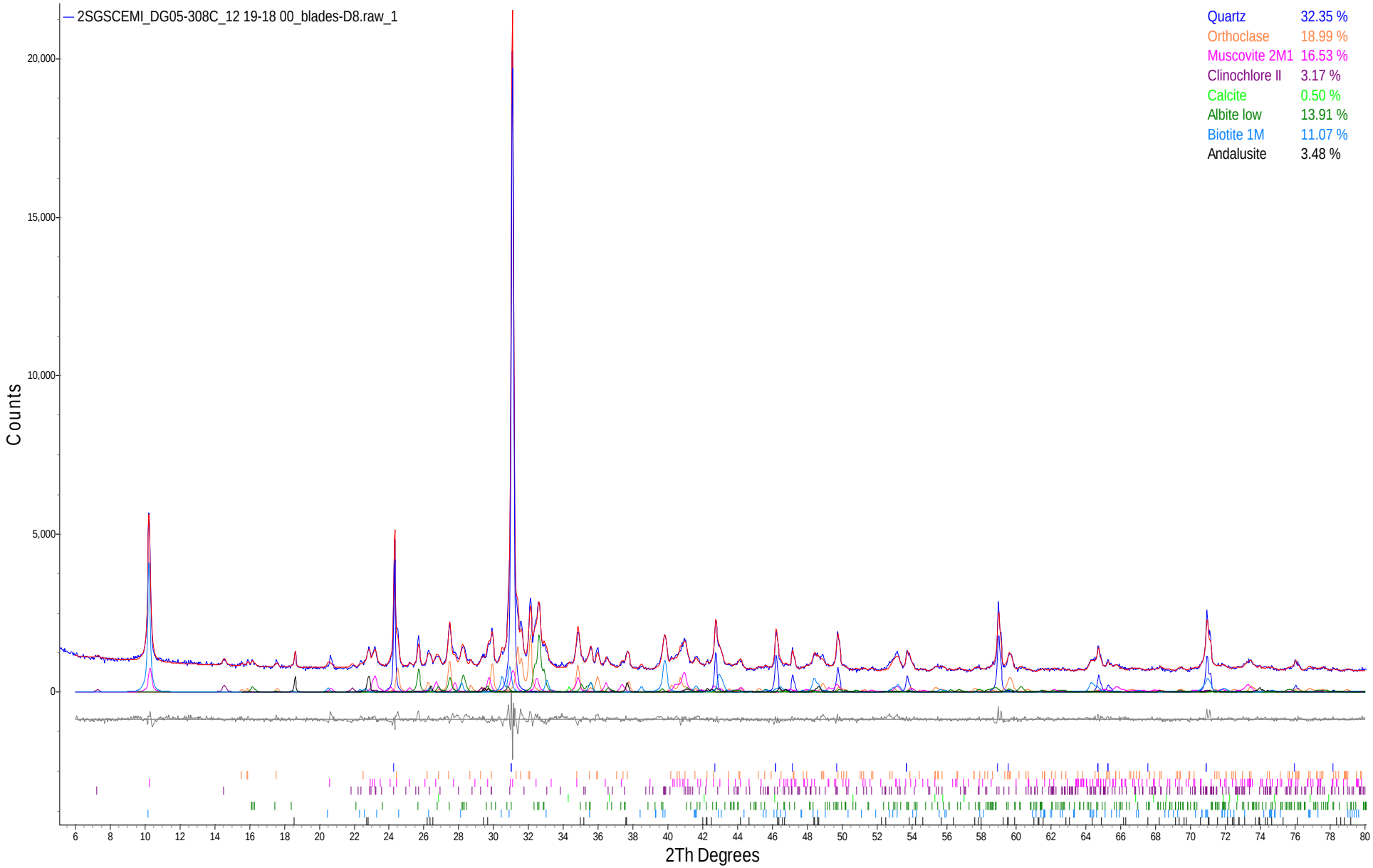


Figure 2. Rietveld refinement plot of sample **SGS CEMI "DG05-308-C 12.19-18.00"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

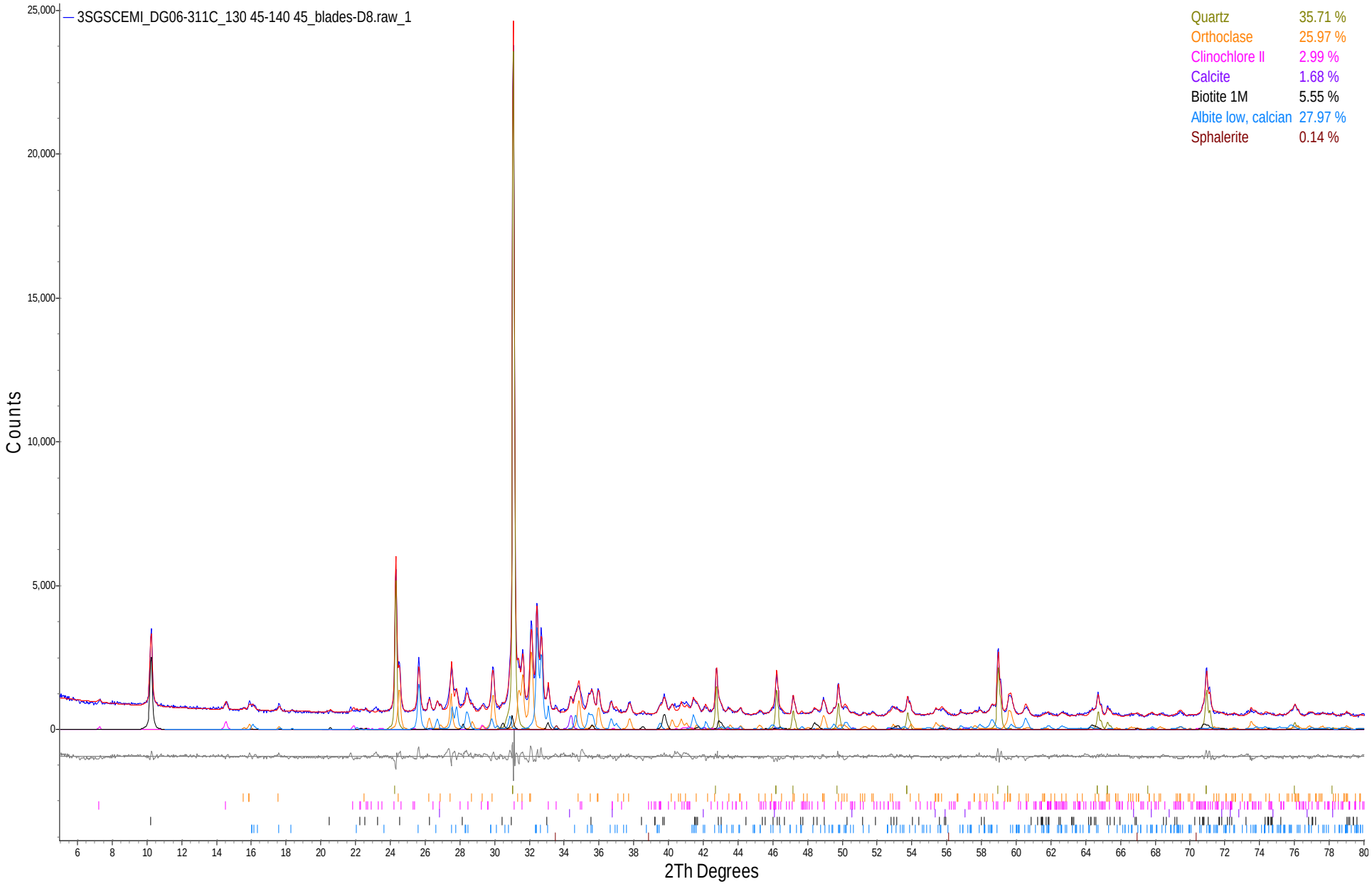


Figure 3. Rietveld refinement plot of sample **SGS CEMI "DG06-311-C 130.45-140.45"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

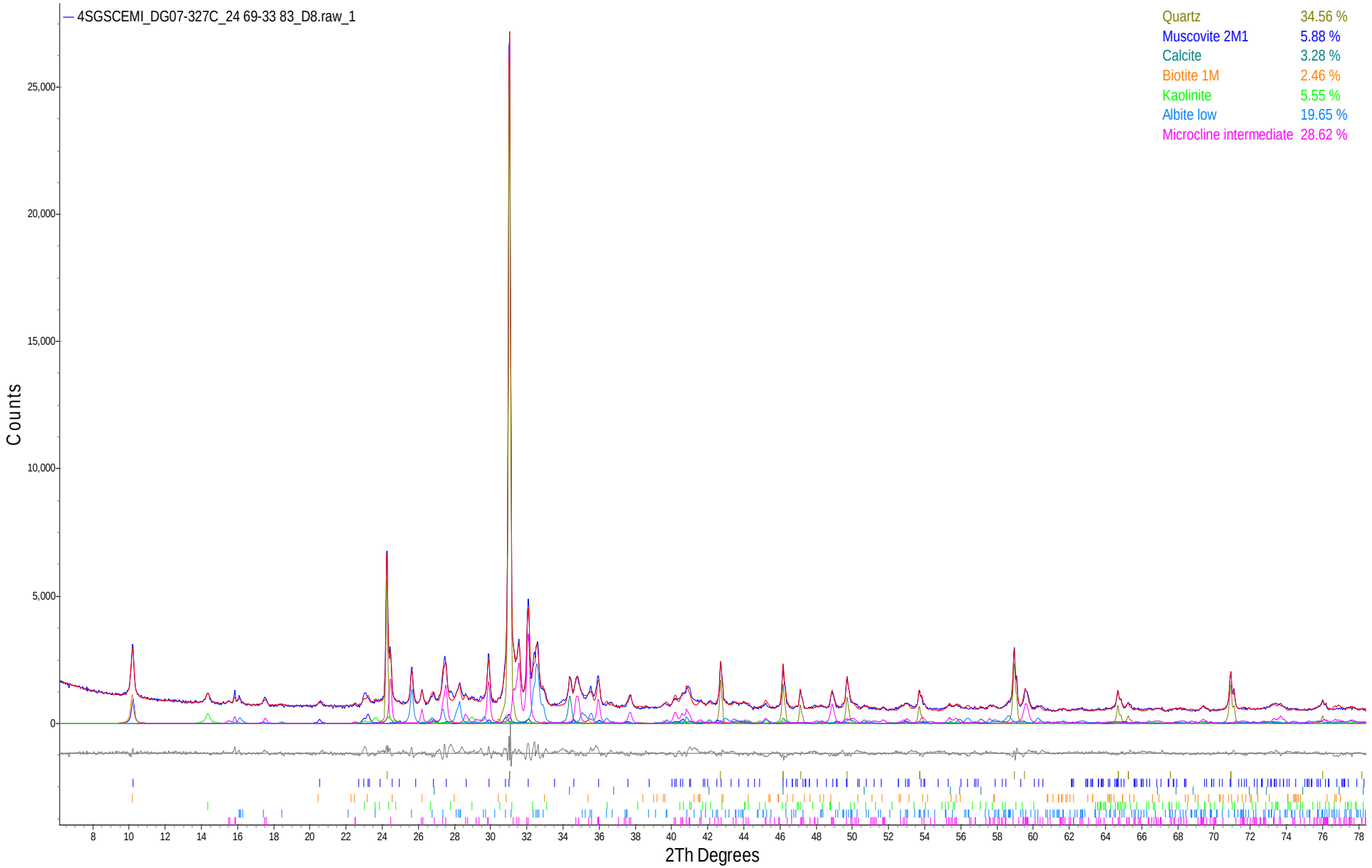


Figure 4. Rietveld refinement plot of sample **SGS CEMI "DG07-327-C 24.69-33.83"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

QUANTITATIVE PHASE ANALYSIS OF ONE POWDER SAMPLE USING THE RIETVELD METHOD AND X-RAY POWDER DIFFRACTION DATA.

(Project: 09102 Eagle Gold – Proj. 366C - PO# 42031)

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December 16, 2009

EXPERIMENTAL METHOD

The sample **"KCA No 42797 Whole"** of **Project 09102 Eagle Gold - Proj. 366C** was reduced to the optimum grain-size range for quantitative X-ray analysis (<10 μm) by grinding under ethanol in a vibratory McCrone Micronising Mill for 7 minutes. Step-scan X-ray powder-diffraction data were collected over a range 3-80°2θ with CoKa radiation on a Bruker D8 Focus Bragg-Brentano diffractometer equipped with an Fe monochromator foil, 0.6 mm (0.3°) divergence slit, incident- and diffracted-beam Soller slits and a LynxEye detector. The long fine-focus Co X-ray tube was operated at 35 kV and 40 mA, using a take-off angle of 6°.

RESULTS

The X-ray diffractogram was analyzed using the International Centre for Diffraction Database PDF-4 and Search-Match software by Siemens (Bruker). X-ray powder-diffraction data of the sample were refined with Rietveld program Topas 4-2 (Bruker AXS). The results of quantitative phase analysis by Rietveld refinement are given in Table 1. These amounts represent the relative amounts of crystalline phases normalized to 100%. The Rietveld refinement plot is shown in Figure 1.

Table 1. Results of quantitative phase analysis (wt.%)

Mineral	**Ideal Formula**	**KCA No 42979 Whole**
Quartz	SiO_2	33.2
Clinochlore	$(Mg,Fe^{2+})_5Al(Si_3Al)O_{10}(OH)_8$	3.9
Muscovite	$KAl_2AlSi_3O_{10}(OH)_2$	4.6
Biotite	$K(Mg,Fe)_3(AlSi_3O_{10})(OH)_2$	6.3
K-feldspar	$KAlSi_3O_8$	23.8
Plagioclase	$NaAlSi_3O_8 – CaAl_2Si_2O_8$	24.6
Calcite	$CaCO_3$	3.5
Pyrite ?	FeS_2	0.2
Total		100.0

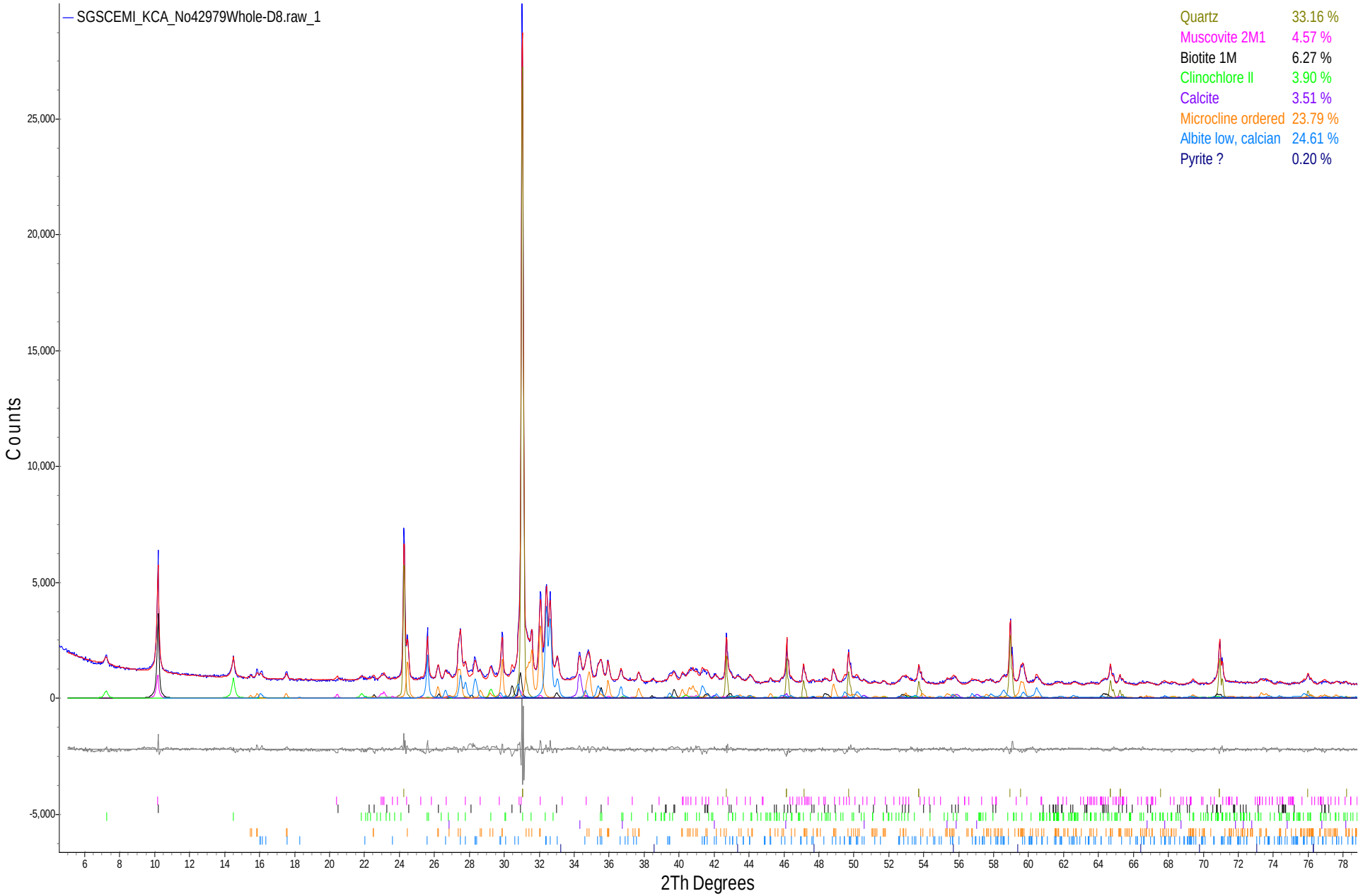


Figure 1. Rietveld refinement plot of sample **SGS CEMI "KCA No 42797 Whole"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

Appendix E2: X-Ray Diffractometry Results for Humidity Cell 12

QUANTITATIVE PHASE ANALYSIS OF ONE POWDER SAMPLE USING THE RIETVELD METHOD AND X-RAY POWDER DIFFRACTION DATA.

Project: 0789 (09102) Eagle Gold – PO# 42556

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August 8, 2012

EXPERIMENTAL METHOD

The sample of **Project 0789 (09102) Eagle Gold** was reduced to the optimum grain-size range for quantitative X-ray analysis (<10 μm) by grinding under ethanol in a vibratory McCrone Micronising Mill for 7 minutes. Continuous-scan X-ray powder-diffraction data were collected over a range 3-80°2θ with CoKa radiation on a Bruker D8 Focus Bragg-Brentano diffractometer equipped with an Fe monochromator foil, 0.6 mm (0.3°) divergence slit, incident- and diffracted-beam Soller slits and a LynxEye detector. The long fine-focus Co X-ray tube was operated at 35 kV and 40 mA, using a take-off angle of 6°.

RESULTS

The X-ray diffractogram was analyzed using the International Centre for Diffraction Database PDF-4 and Search-Match software by Siemens (Bruker). X-ray powder-diffraction data of the sample were refined with Rietveld program Topas 4.2 (Bruker AXS). The results of quantitative phase analysis by Rietveld refinements are given in Table 1. These amounts represent the relative amounts of crystalline phases normalized to 100%. The Rietveld refinement plot is shown in Figure 1.

Table 1. Results of quantitative phase analysis (wt.%)

Mineral	**Ideal Formula**	**“48158”**
Quartz	SiO_2	35.0
Clinochlore	$(Mg,Fe^{2+})_5Al(Si_3Al)O_{10}(OH)_8$	3.5
Kaolinite	$Al_2Si_2O_5(OH)_4$	1.2
Muscovite	$KAl_2AlSi_3O_{10}(OH)_2$	6.7
Biotite	$K(Mg,Fe^{2+})_3AlSi_3O_{10}(OH)_2$	5.1
Plagioclase	$NaAlSi_3O_8 – CaAl_2Si_2O_8$	21.4
K-feldspar	$KAlSi_3O_8$	23.3
Calcite	$CaCO_3$	3.1
Ankerite/Dolomite	$Ca(Fe^{2+},Mg,Mn)(CO_3)_2/CaMg(CO_3)_2$	0.7
Total		100.0

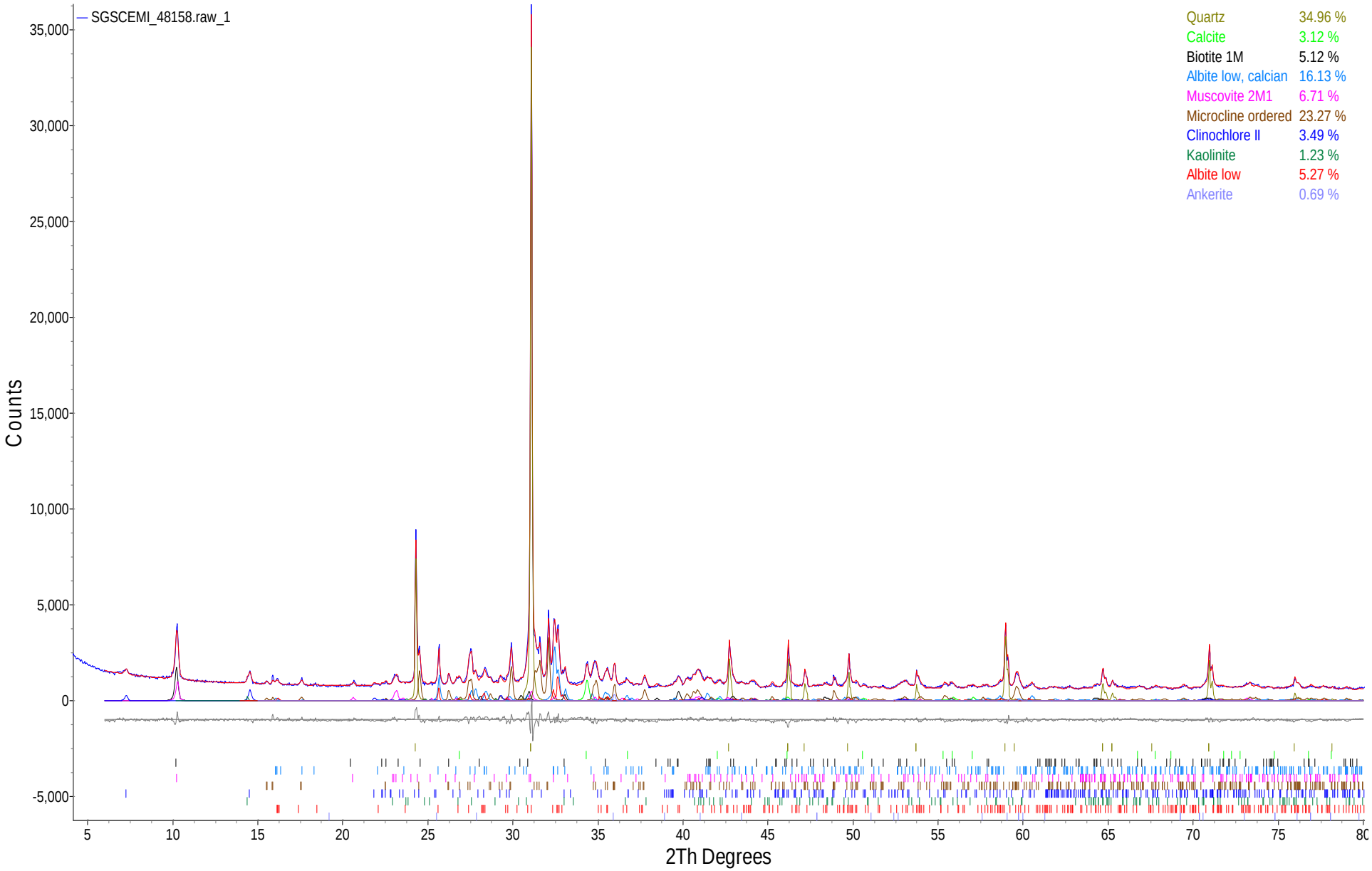


Figure 1. Rietveld refinement plot of sample **SGS CEMI "48158"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

Appendix E3: X-Ray Diffractometry Results for Humidity Cell 13

QUANTITATIVE PHASE ANALYSIS OF ONE POWDER SAMPLE USING THE RIETVELD METHOD AND X-RAY POWDER DIFFRACTION DATA.

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August 16, 2012

EXPERIMENTAL METHOD

The sample of **Project 09102 Eagle Gold** was reduced to the optimum grain-size range for quantitative X-ray analysis (<10 μm) by grinding under ethanol in a vibratory McCrone Micronising Mill for 7 minutes. Continuous-scan X-ray powder-diffraction data were collected over a range 3-80°2θ with CoKa radiation on a Bruker D8 Focus Bragg-Brentano diffractometer equipped with an Fe monochromator foil, 0.6 mm (0.3°) divergence slit, incident- and diffracted-beam Soller slits and a LynxEye detector. The long fine-focus Co X-ray tube was operated at 35 kV and 40 mA, using a take-off angle of 6°.

RESULTS

The X-ray diffractogram was analyzed using the International Centre for Diffraction Database PDF-4 and Search-Match software by Bruker. X-ray powder-diffraction data of the sample were refined with Rietveld program Topas 4.2 (Bruker AXS). The results of quantitative phase analysis by Rietveld refinements are given in Table 1. These amounts represent the relative amounts of crystalline phases normalized to 100%. The Rietveld refinement plot is shown in Figure 1.

Table 1. Results of quantitative phase analysis (wt.%)

Mineral	**Ideal Formula**	**11BGC-GTH10 Int 146.1-156.67**
Quartz	SiO_2	50.7
Clinochlore	$(Mg,Fe^{2+})_5Al(Si_3Al)O_{10}(OH)_8$	3.5
Muscovite	$KAl_2AlSi_3O_{10}(OH)_2$	13.3
Biotite	$K(Mg,Fe^{2+})_3AlSi_3O_{10}(OH)_2$	10.6
Plagioclase	$NaAlSi_3O_8 – CaAl_2Si_2O_8$	8.9
K-Feldspar	$KAlSi_3O_8$	4.0
Calcite ?	$CaCO_3$	0.4
Ankerite-Dolomite	$Ca(Fe^{2+},Mg,Mn)(CO_3)_2$-$CaMg(CO_3)_2$	0.6
Ilmenite	$Fe^{2+}TiO_3$	1.5
Pyrite	FeS_2	0.5
Pyrrhotite	$Fe_{1-x}S$	1.0
Cordierite	$Mg_2Al_4Si_5O_{18}$	3.2
Andalusite	Al_2SiO_5	1.8
Total		100.0

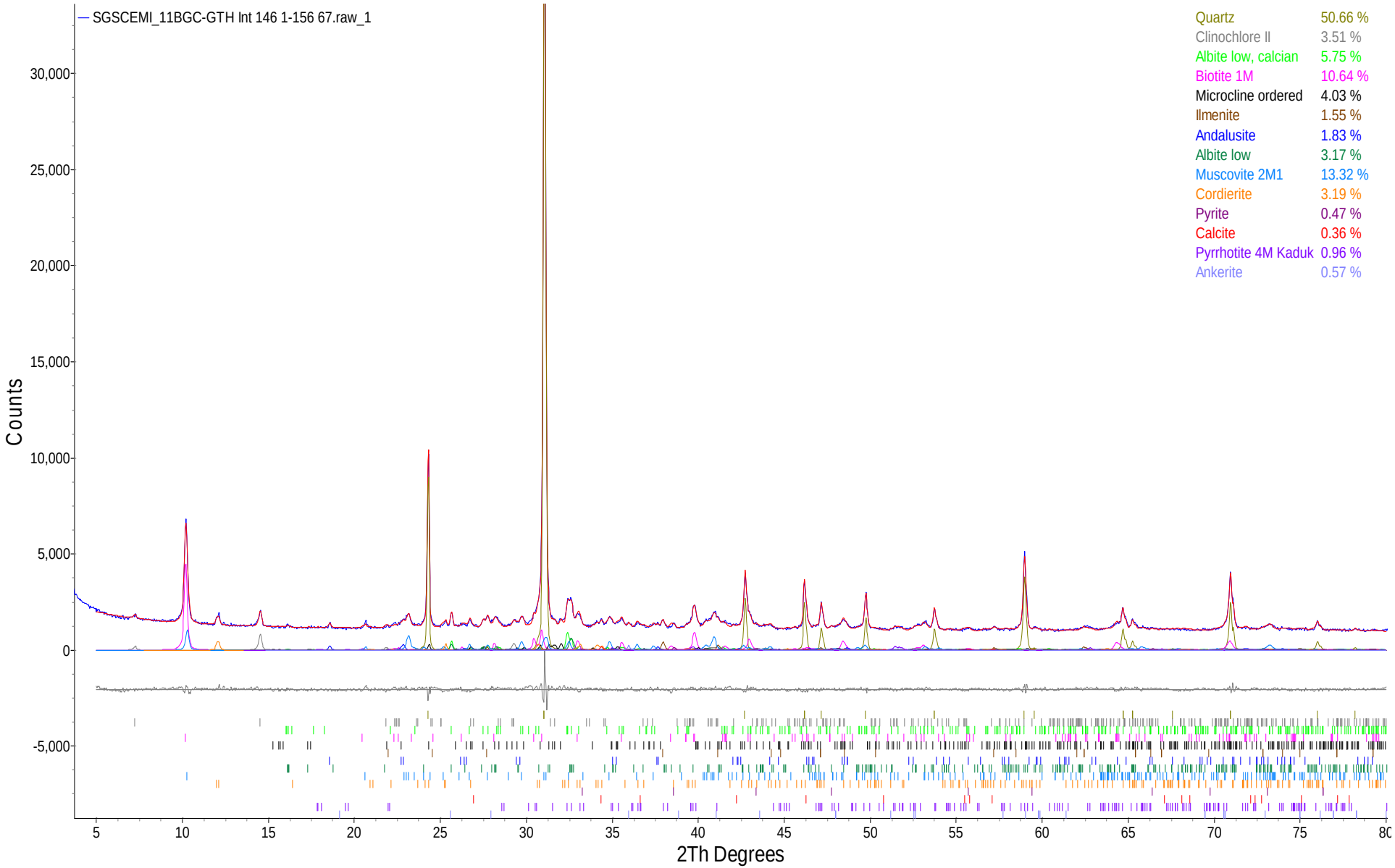


Figure 1. Rietveld refinement plot of sample **SGS CEMI "11BGC-GTH10 Int 146.1-156.67"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

Appendix E4: X-Ray Diffractometry Results for Humidity Cell 14

QUANTITATIVE PHASE ANALYSIS OF ONE POWDER SAMPLE USING THE RIETVELD METHOD AND X-RAY POWDER DIFFRACTION DATA.

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November 26, 2012

EXPERIMENTAL METHOD

The sample of **Project 09102 Eagle Gold** was reduced to the optimum grain-size range for quantitative X-ray analysis (<10 μm) by grinding under ethanol in a vibratory McCrone Micronising Mill for 7 minutes. Continuous-scan X-ray powder-diffraction data were collected over a range 3-80°2θ with CoKa radiation on a Bruker D8 Focus Bragg-Brentano diffractometer equipped with an Fe monochromator foil, 0.6 mm (0.3°) divergence slit, incident- and diffracted-beam Soller slits and a LynxEye detector. The long fine-focus Co X-ray tube was operated at 35 kV and 40 mA, using a take-off angle of 6°.

RESULTS

The X-ray diffractogram was analyzed using the International Centre for Diffraction Database PDF-4 and Search-Match software by Bruker. X-ray powder-diffraction data of the sample were refined with Rietveld program Topas 4.2 (Bruker AXS). The results of quantitative phase analysis by Rietveld refinements are given in Table 1. These amounts represent the relative amounts of crystalline phases normalized to 100%. The Rietveld refinement plot is shown in Figure 1.

Table 1. Results of quantitative phase analysis (wt.%)

Mineral	**Ideal Formula**	**M404101 to 09**
Quartz	SiO_2	33.1
Clinochlore	$(Mg,Fe^{2+})_5Al(Si_3Al)O_{10}(OH)_8$	2.4
Muscovite 2M1	$KAl_2(AlSi_3O_{10})(OH)_2$	10.6
Muscovite 1M	$KAl_2(AlSi_3O_{10})(OH)_2$	6.4
Biotite	$K(Mg,Fe^{2+})_3AlSi_3O_{10}(OH)_2$	2.3
K-feldspar	$KAlSi_3O_8$	23.1
Plagioclase	$NaAlSi_3O_8 – CaAlSi_2O_8$	13.9
Ankerite-Dolomite	$Ca(Fe^{2+},Mg,Mn)(CO_3)_2/CaMg(CO_3)_2$	5.1
Calcite	$CaCO_3$	2.6
Pyrite	FeS_2	0.5
Total		100.0

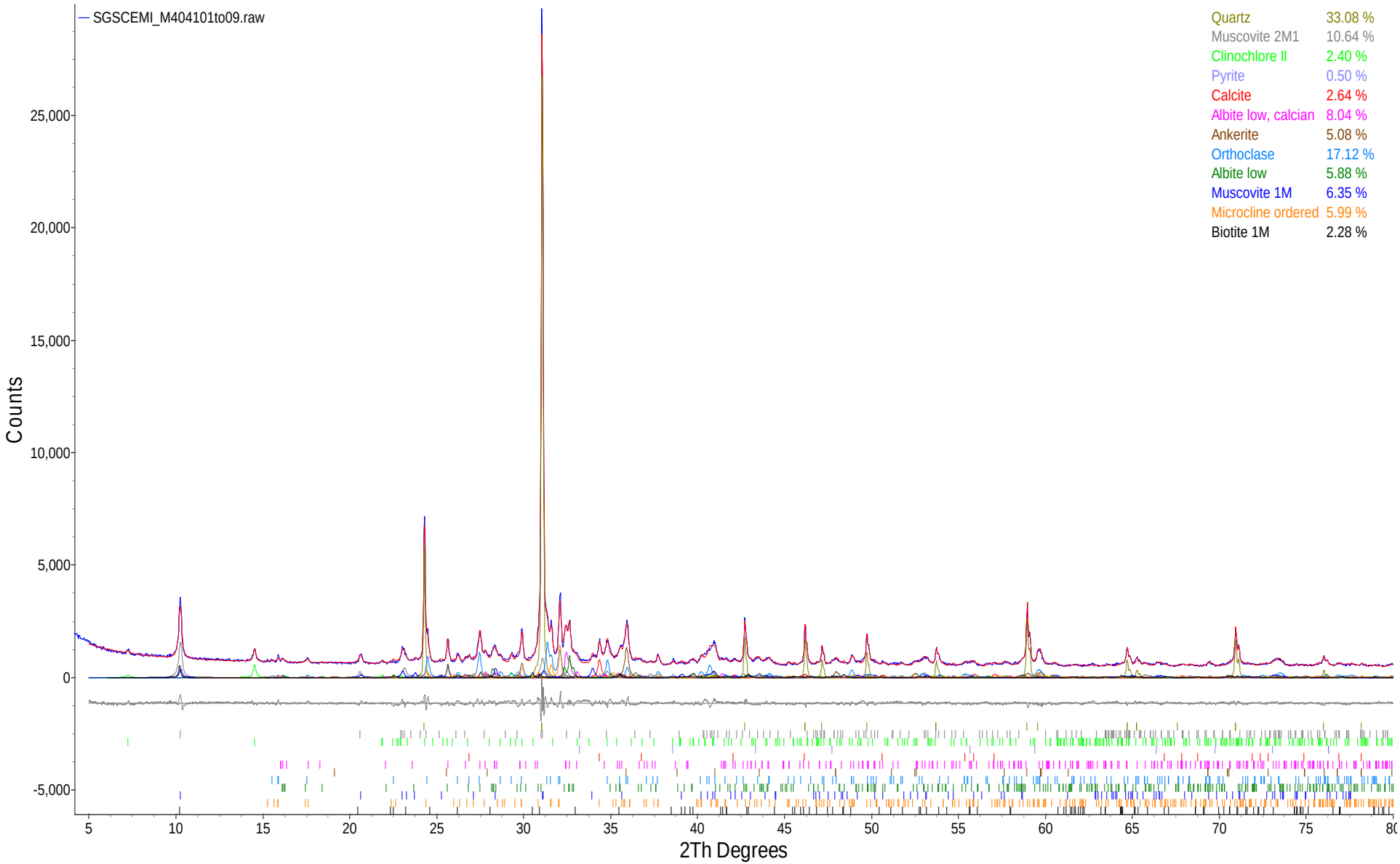


Figure 1. Rietveld refinement plot of sample **SGS CEMI "M404101 to 09"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

Appendix E5: X-Ray Diffractometry Results for Field Barrel Tests

QUANTITATIVE PHASE ANALYSIS OF 8 POWDER SAMPLES USING THE RIETVELD METHOD AND X-RAY POWDER DIFFRACTION DATA.

Project: 09102 Eagle Gold – PO# 42587

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October 24, 2012

EXPERIMENTAL METHOD

The eight samples of **Project 09102 Eagle Gold** were reduced to the optimum grain-size range for quantitative X-ray analysis (<10 μm) by grinding under ethanol in a vibratory McCrone Micronising Mill for 7 minutes. Continuous-scan X-ray powder-diffraction data were collected over a range 3-80°2θ with CoKa radiation on a Bruker D8 Focus Bragg-Brentano diffractometer equipped with an Fe monochromator foil, 0.6 mm (0.3°) divergence slit, incident- and diffracted-beam Soller slits and a LynxEye detector. The long fine-focus Co X-ray tube was operated at 35 kV and 40 mA, using a take-off angle of 6°.

RESULTS

The X-ray diffractograms were analyzed using the International Centre for Diffraction Database PDF-4 and Search-Match software by Bruker. X-ray powder-diffraction data of the samples were refined with Rietveld program Topas 4.2 (Bruker AXS). The results of quantitative phase analysis by Rietveld refinements are given in Table 1. These amounts represent the relative amounts of crystalline phases normalized to 100%. The Rietveld refinement plots are shown in Figures 1-8.

Table 1. Results of quantitative phase analysis (wt.%)

Mineral	**Ideal Formula**	**DG12-BRL-01**	**DG12-BRL-02**	**DG12-BRL-03**	**DG12-BRL-04**	**DG12-BRL-05**	**DG12-BRL-06**	**DG12-BRL-07**	**DG12-BRL-08**
Quartz	SiO_2	68.3	41.3	45.7	34.8	34.8	34.8	42.6	51.0
Clinochlore	$(Mg,Fe^{2+})_5Al(Si_3Al)O_{10}(OH)_8$	1.1	1.9	2.2	3.9	3.1	2.7	3.1	2.2
Kaolinite	$Al_2Si_2O_5(OH)_4$	2.1	2.6	2.9		1.1	0.8	0.7	1.7
Muscovite 2M	$KAl_2AlSi_3O_{10}(OH)_2$	5.5	16.2	10.3	2.6	4.2	6.7	9.0	11.4
Muscovite 1M	$KAl_2AlSi_3O_{10}(OH)_2$	1.9					3.8	3.7	2.0
Biotite	$K(Mg,Fe^{2+})_3AlSi_3O_{10}(OH)_2$	3.8	9.6	5.0	5.5	6.3	4.3	4.5	4.2
Plagioclase	$NaAlSi_3O_8 – CaAl_2Si_2O_8$	9.4	14.4	15.0	26.3	25.3	20.6	15.9	13.3
K-Feldspar	$KAlSi_3O_8$	7.0	10.8	17.7	24.9	23.0	22.3	17.3	12.8
Calcite	$CaCO_3$	0.6	0.7	0.7	0.9	1.8	1.8	1.7	0.5
Ankerite-Dolomite	$Ca(Fe^{2+},Mg,Mn)(CO_3)_2$-$CaMg(CO_3)_2$			0.5	0.4	0.3	1.9	1.0	
Pyrite	FeS_2						0.3		
Zircon ?	$ZrSiO_4$	0.2							
Cordierite	$Mg_2Al_4Si_5O_{18}$				0.6			0.7	
Andalusite	Al_2SiO_5		2.4						0.9
Total		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

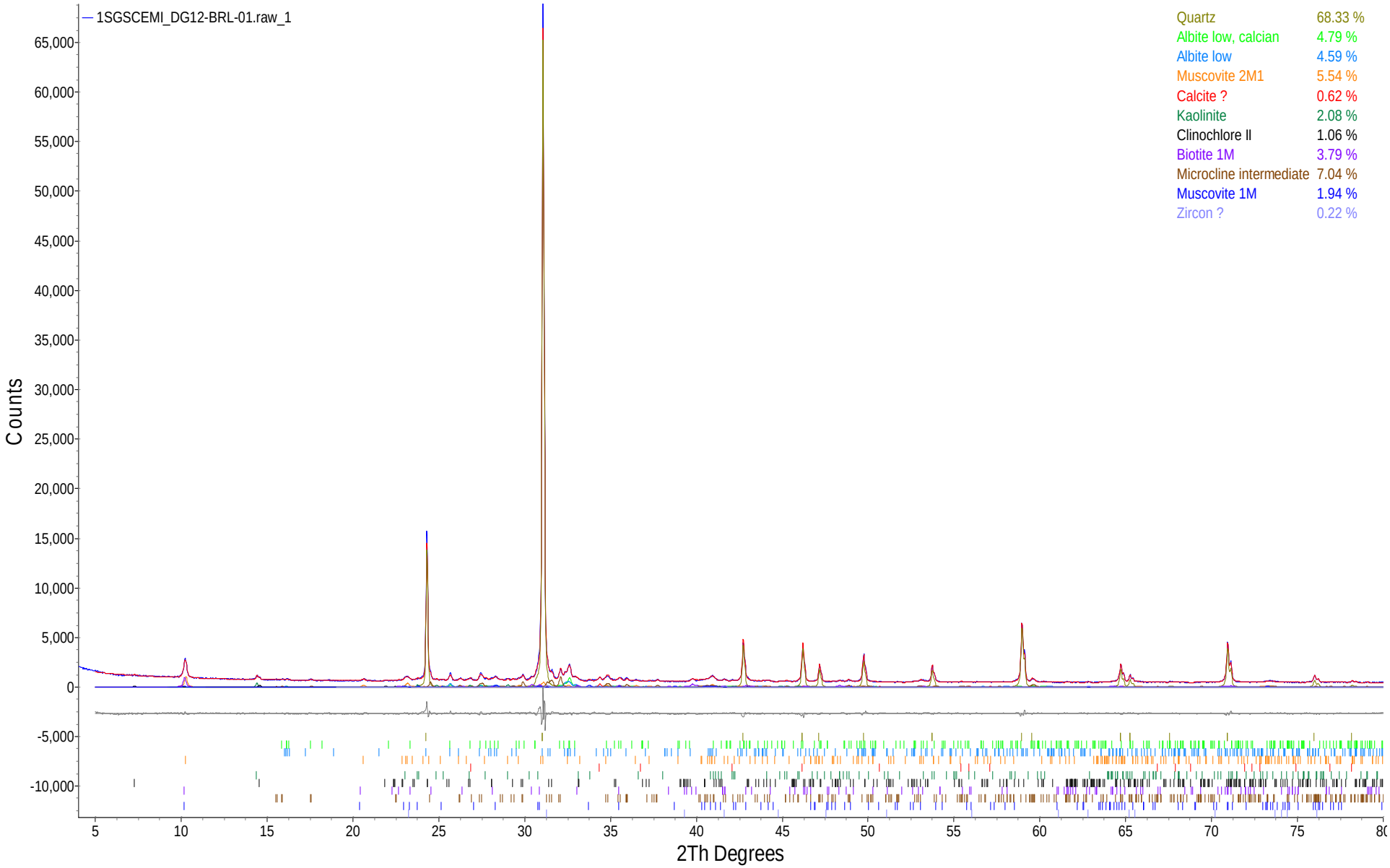


Figure 1. Rietveld refinement plot of sample **SGS CEMI "DG12-BRL-01"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

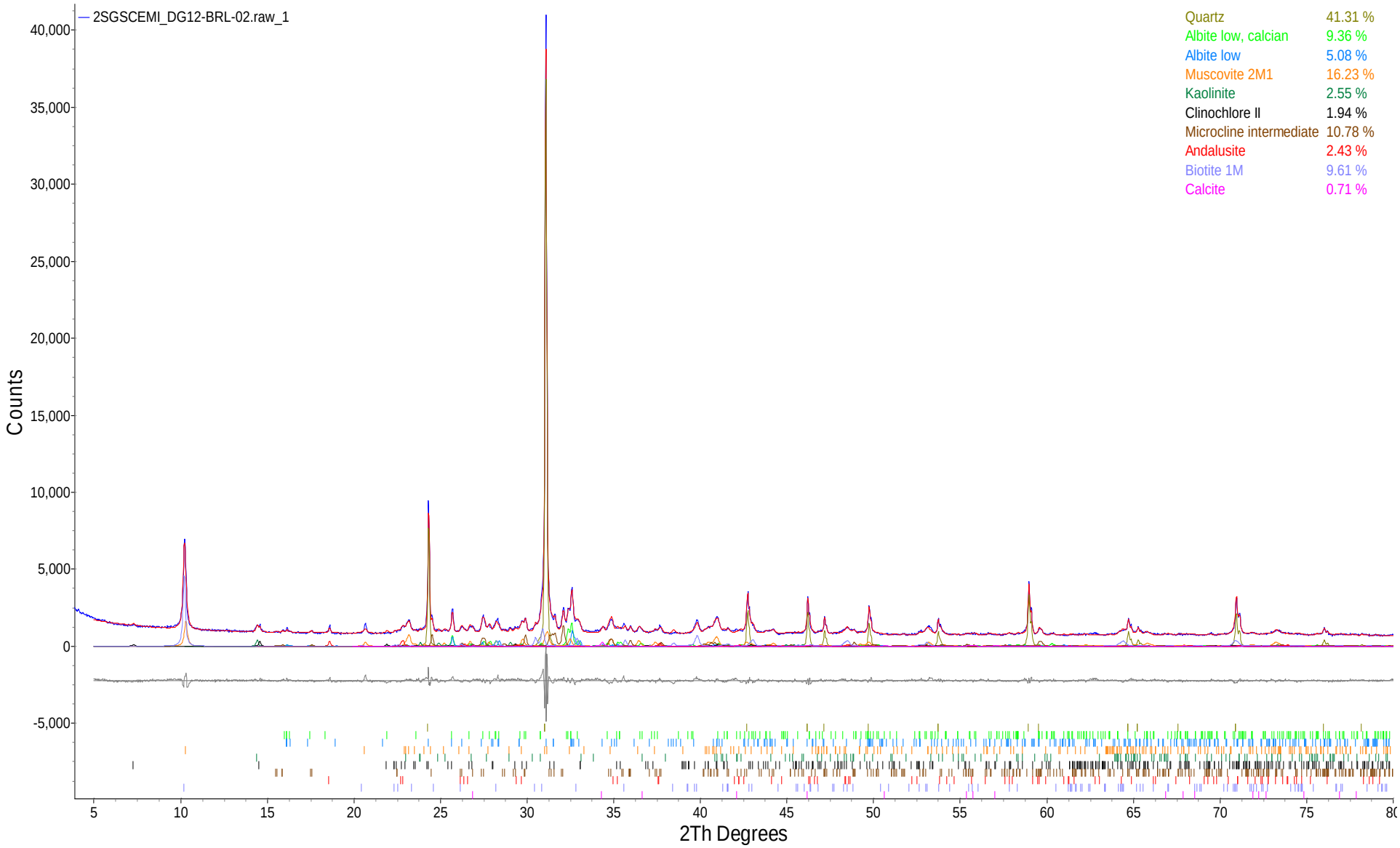


Figure 2. Rietveld refinement plot of sample **SGS CEMI "DG12-BRL-02"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

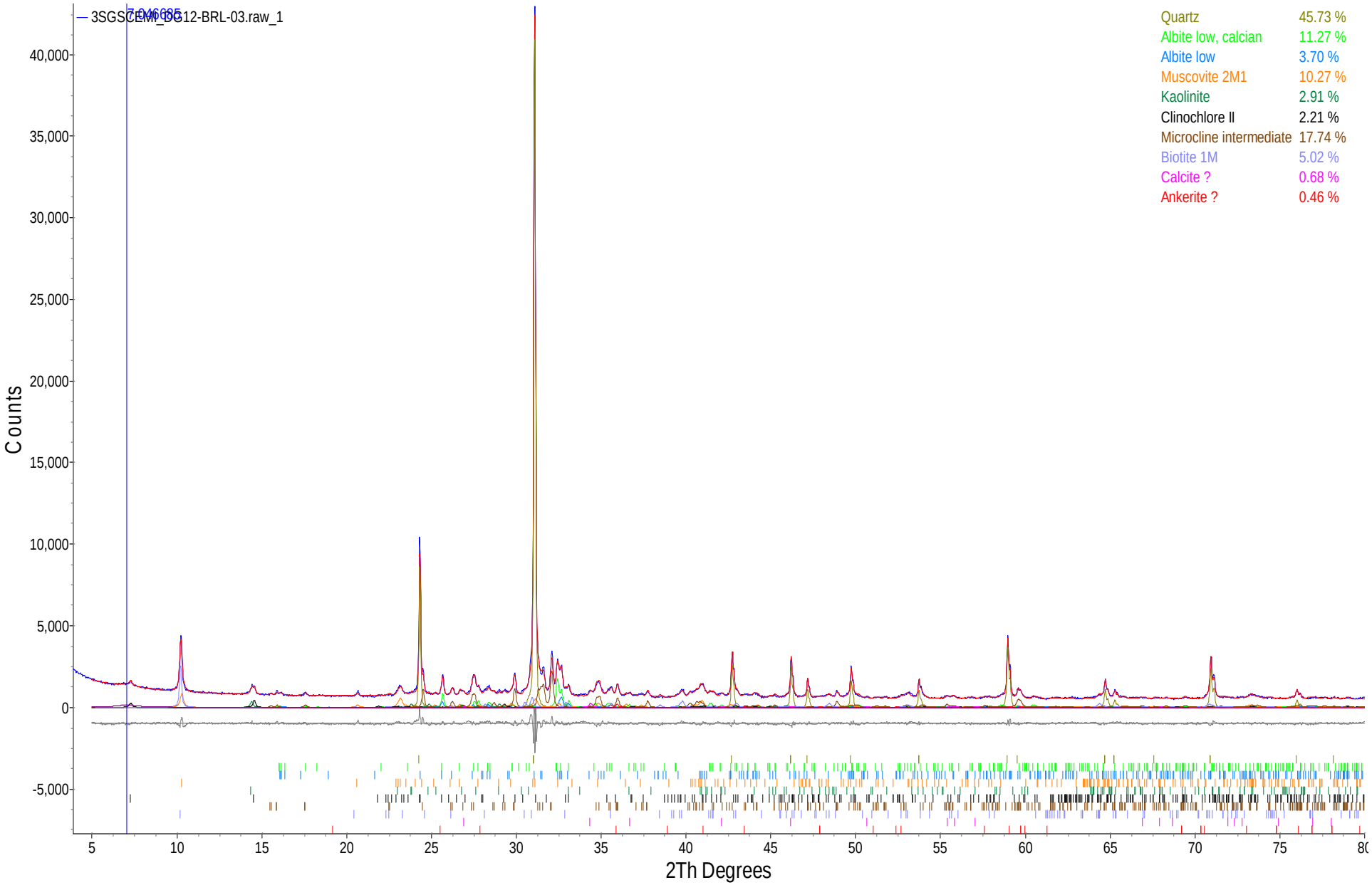


Figure 3. Rietveld refinement plot of sample **SGS CEMI "DG12-BRL-03"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

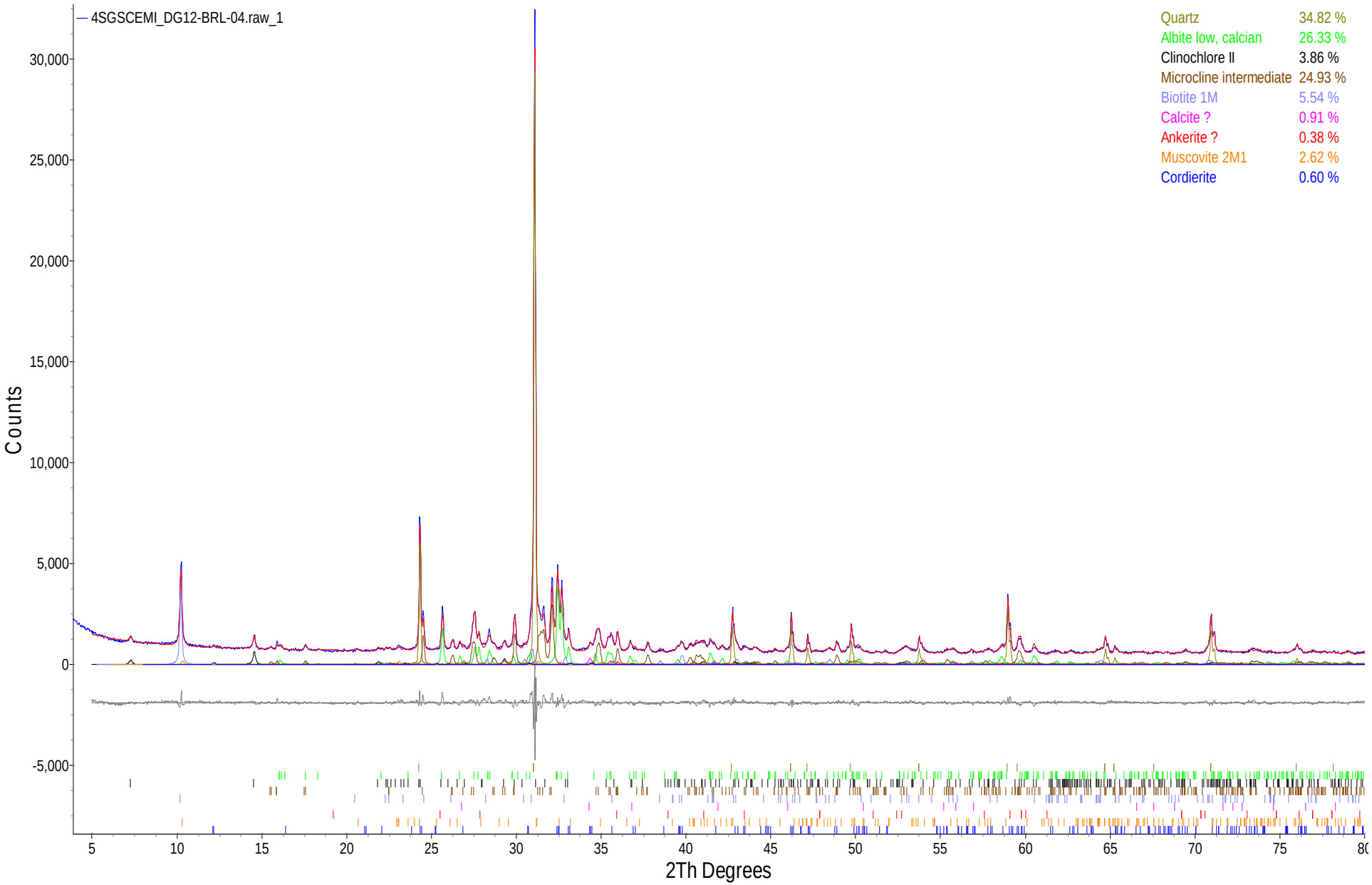


Figure 4. Rietveld refinement plot of sample **SGS CEMI "DG12-BRL-04"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

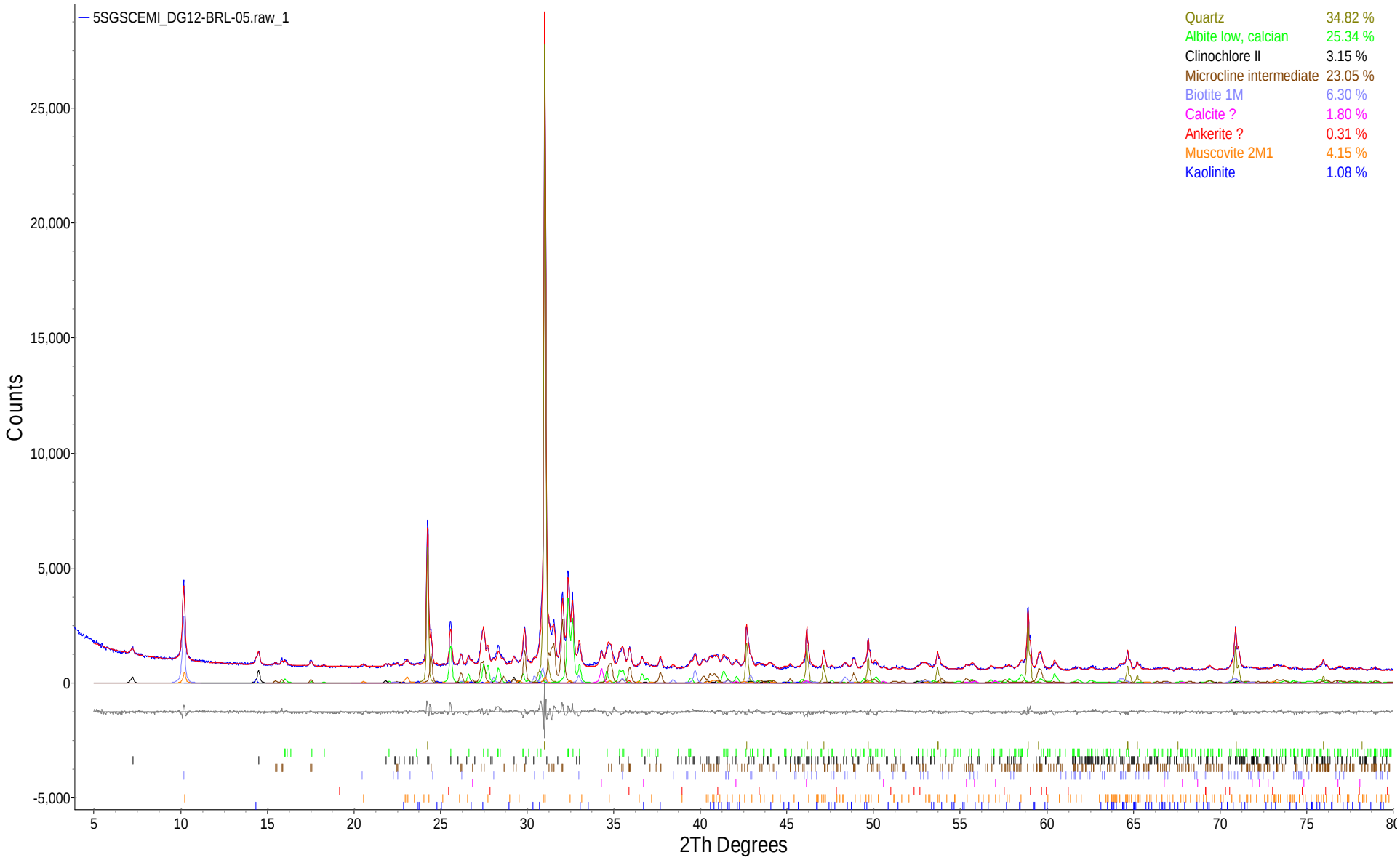


Figure 5. Rietveld refinement plot of sample **SGS CEMI "DG12-BRL-05"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

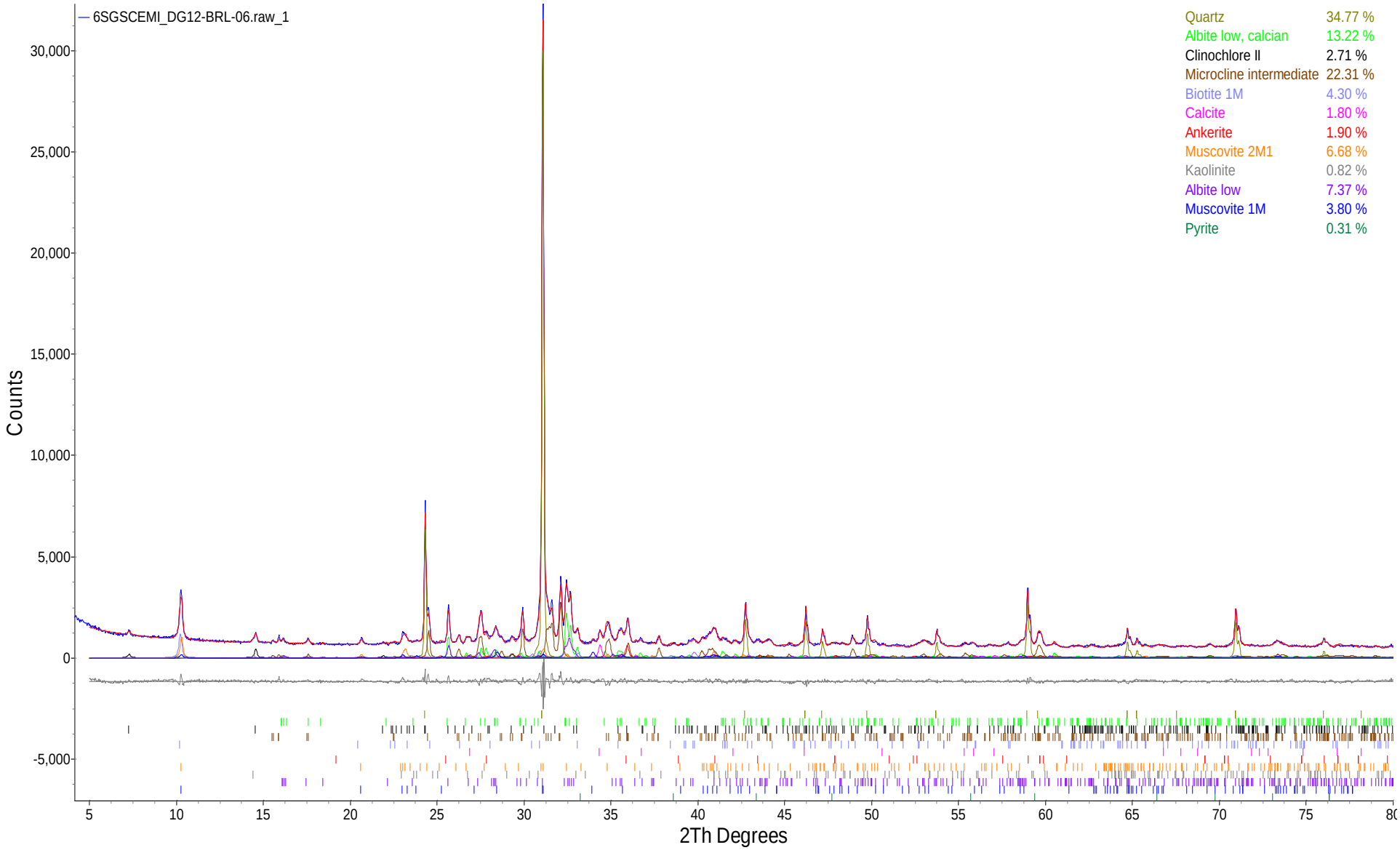


Figure 6. Rietveld refinement plot of sample **SGS CEMI "DG12-BRL-06"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

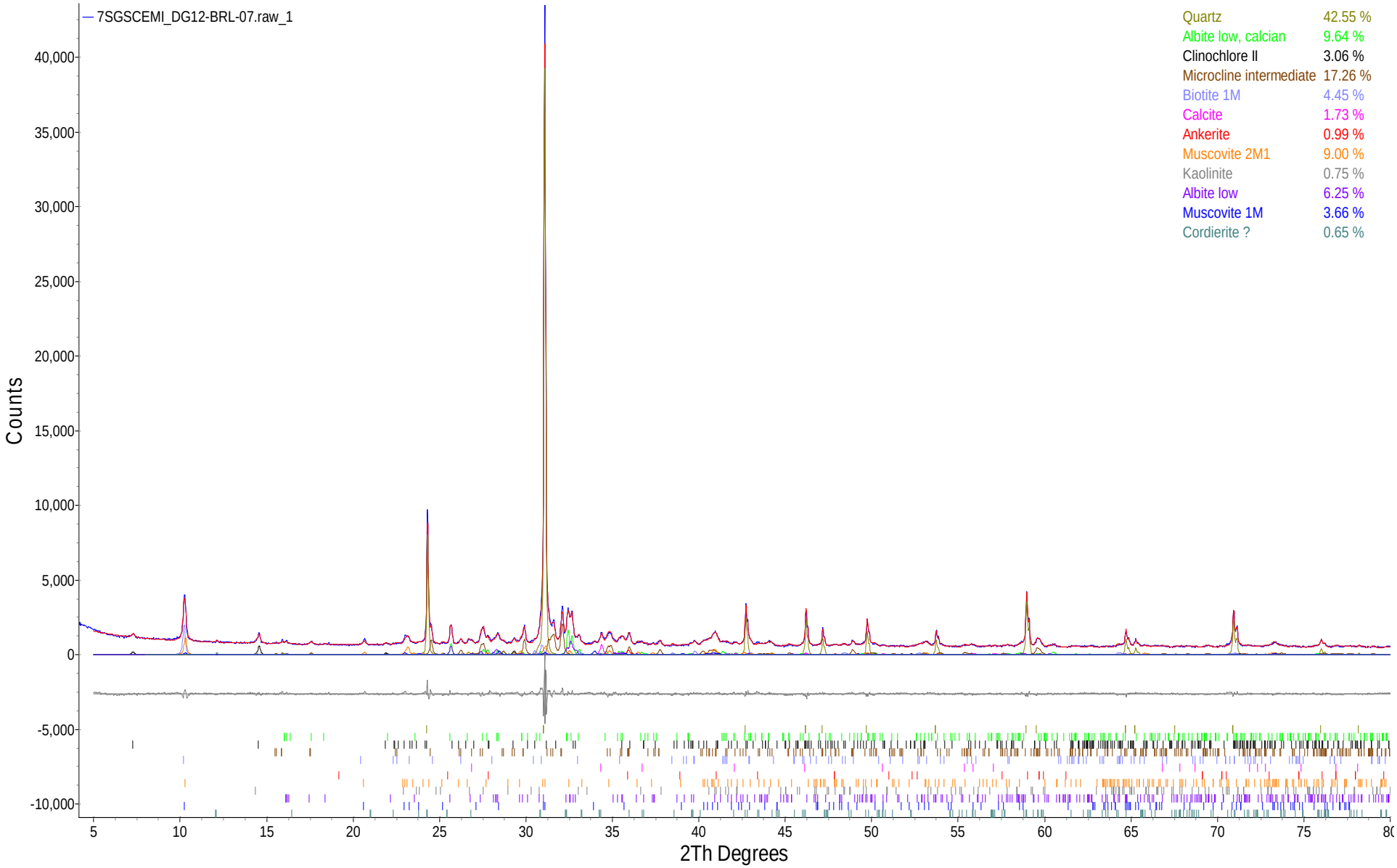


Figure 7. Rietveld refinement plot of sample **SGS CEMI "DG12-BRL-07"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

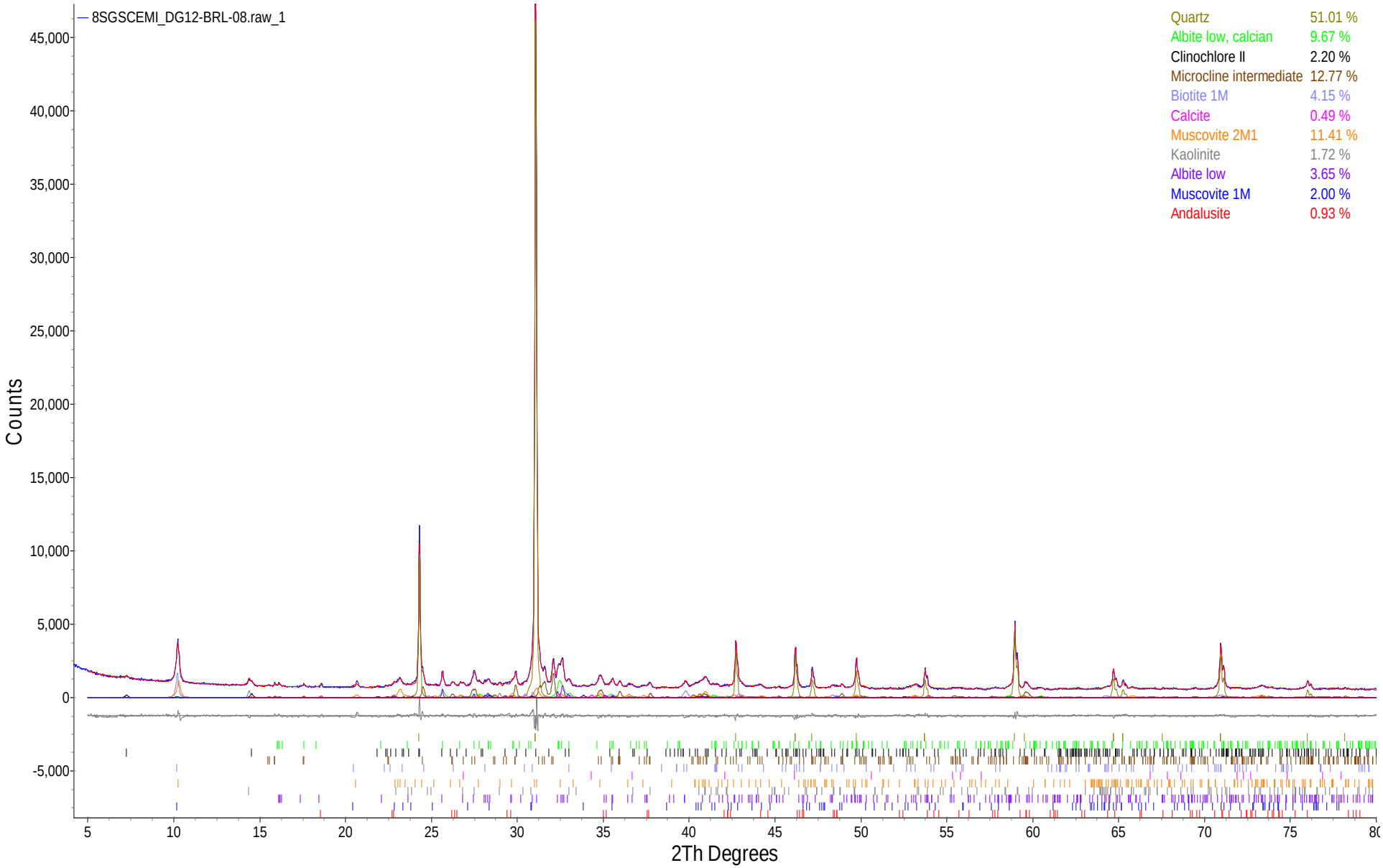


Figure 8. Rietveld refinement plot of sample **SGS CEMI "DG12-BRL-08"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

Appendix F: Petrographic Reports

Appendix F1: Petrographic Reports for 2010 Samples

Mineralogy Report

CHARACTERIZATION OF ROCK CHIPS, DUBLIN GULCH PROPERTY, YUKON

July 17, 2009

SGS-CEMI Project #:
0789 Strata Gold Corp.

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Background

Six crushed rock samples from the Dublin Gulch property, Yukon are characterized in this report (SGS CEMI Project No. 0789 Strata Gold Corp). Optical reporting was requested by Shannon Shaw of Phase Geochemistry Inc. The samples were submitted for polished thin section production at Vancouver Petrographics Ltd. by Rik Vos of SGS CEMI Inc. on June 29, 2009. The samples, polished thin sections and offcut mounts were received by Kathryn Dunne, P.Geo. for optical analysis on July 10, 2009. The purpose of the optical study was to characterize the mineralogy with particular emphasis on sulphide minerals and any carbonate minerals present.

The optical observations are summarized below and petrographic descriptions of polished thin sections with representative photomicrographs follow the summary. All percentages in the descriptions are approximate based on visual estimation.

Please note the following grain size conventions are used in the report: very fine-grained (< 50 µm), fine-grained (> 50 µm and less than 1 mm), medium-grained (> 1mm and < 5 mm) and coarse-grained (> 5mm).

Summary

Sample List	Rock Types
DG07-303C 175.26-185.93	sericite-carbonate altered biotite-plagioclase porphyritic rock
	quartz±K-feldspar and carbonate vein fragments
DG07-305C 1.52-9.14	biotite-quartz±andalusite hornfels
	pyroxene skarn
	muscovite (sericite) altered biotite hornfels
	quartz±K-feldspar veins
DG07-305C 169.03-178.31	sericite-carbonate altered seriate inequigranular biotite granodiorite
	quartz±K-feldspar veins
DG07-331C 52.92-62.30	biotite-quartz±andalusite hornfels
	muscovite (sericite) altered biotite hornfels
	quartz±K-feldspar veins
DG07-331C 99.97-109.12	seriate inequigranular biotite granodiorite
DG07-335C 103.02-113.69	recrystallized quartz-actinolite-biotite-plagioclase porphyritic rock

The crushed rock samples include a variety of intrusive rock types (seriate inequigranular biotite granodiorite and biotite-plagioclase±actinolite±quartz porphyritic rock) or biotite-quartz±andalusite hornfels, a variety of quartz±K-feldspar veins and liberated mineral grains (including quartz, carbonate, biotite and sulphides).

Carbonate occurs in trace to major amounts (~7%) dominantly as colourless varieties with traces of brown carbonate noted in section (DG07-331C 99.97-109.12). Carbonate can occur as very fine-grained anhedral grains and patchy aggregates replacing feldspar or biotite, as fine-grained veinlets and infill to rock/vein fragments and as fine-grained liberated fragments.

Sulphides occur in minor amounts (~1-3%) dominantly as pyrrhotite ± pyrite with traces of some of the following chalcopyrite, arsenopyrite, marcasite, sphalerite and an unknown phase. Pyrrhotite occurs as fine-grained anhedral grains and aggregates within rock chips, as liberated grains and as replacement of biotite. Locally pyrrhotite encloses or is associated with pyrite. Rarely pyrrhotite occurs intergrown with chalcopyrite. Pyrrhotite grain boundaries are irregular and generally unaltered; however, in some samples, pyrrhotite is locally rimmed and partly replaced by red-brown Fe-oxide/oxyhydroxide aggregates. In some samples, pyrrhotite grains have weathered forming a bird's eye texture composed of pyrite and marcasite. Other pyrrhotite grains have altered to marcasite pseudomorphs. Pyrite as fine to very fine-grained, eu-anhedral grains and massive aggregates within rock chips and as liberated grains. Irregular patches of very fine-grained marcasite occur

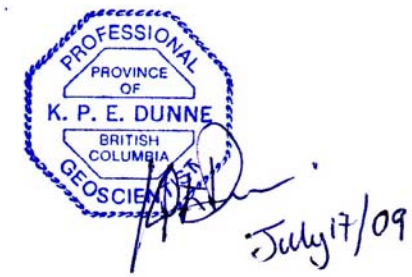
locally with pyrite aggregate. Pyrite grains are locally pitted. Some pyrite grain boundaries are irregular but alteration rims are typically not evident. Rarely, in some samples, pyrite is locally rimmed and partly replaced by red-brown Fe-oxide/oxyhydroxide aggregates. Traces of arsenopyrite occur in some samples as fine-grained liberated crystals and as anhedral grains and aggregates. Arsenopyrite rims are clean without alteration.

Unknown red-brown and orange-brown Fe-oxyhydroxide aggregates occurs in trace to minor amounts (~2%) in the samples in some of the following forms: as very fine-grained fracture-controlled aggregates, as replacement of carbonate or biotite, as replacement of sulphide rims, as cement or as fragment rims.

Tabular summary (SGS-CEMI Project **#:** 0789 Strata Gold Corp):

Sample #	**Sulphide**	**% ~**	**Carbonate occurrence**	**% ~**	**Fe-Oxides and Oxyhydroxides**	**% ~**	**Some Other > 1%**	**% ~**
DG07-303C 175.26-185.93	pyrrhotite pyrite arsenopyrite chalcopyrite marcasite sphalerite unknown	2 1 tr tr tr tr tr	colourless, fine to very fine-grained, anhedral grains and fine-grained liberated vein fragments	7	red-brown Fe-ox (locally replaces carbonate), orange-brown Fe-ox (fine-grained aggregates)	tr	muscovite (sericite) biotite chlorite	15 5 1
DG07-305C 1.52-9.14	pyrrhotite arsenopyrite chalcopyrite pyrite-marcasite	1 tr tr tr	fine-grained colourless aggregates in skarn and liberated fragments	tr	red and orange-brown Fe-ox locally replaces carbonate, fracture infill, cement and rims fragments	1	biotite muscovite (sericite)	15 5
DG07-305C 169.03-178.31	pyrrhotite pyrite arsenopyrite chalcopyrite	1 tr tr tr	very fine-grained, colourless aggregates, fine-grained veinlets, infill and liberated fragments	3	red Fe-ox	tr	biotite muscovite (sericite)	15 5
DG07-331C 52.92-62.30	pyrrhotite pyrite chalcopyrite marcasite	1 tr tr tr	colourless very fine-grained aggregates, fine-grained infill, and liberated grains	tr	red Fe-ox, locally replaces carbonate	tr	biotite muscovite (sericite) chlorite	15 10 1
DG07-331C 99.97-109.12	pyrrhotite pyrite arsenopyrite marcasite chalcopyrite	1 1 tr tr tr	colourless very fine-grained aggregates, and fine-grained veinlets, infill and liberated fragments; very fine-grained brown carbonate aggregate	5	red-brown Fe-ox	tr	biotite chlorite muscovite (sericite)	15 2 1
DG07-335C 103.02-113.69	pyrrhotite marcasite chalcopyrite	1 tr tr	colourless very fine-grained aggregates, fine-grained fracture infill and liberated fragments	tr	red-brown Fe-ox, fracture-controlled, locally replaces biotite, some fragment rims	2	biotite actinolite chlorite	15 3 1

tr = trace (< 1%); x = none observed; Fe-ox = Fe-oxide or oxyhydroxide


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July 17/09

SGS-CEMI Project #: 0789 Strata Gold Corp
Sample ID: DG07-303C 175.26-185.93 Offcut #: AN-1A

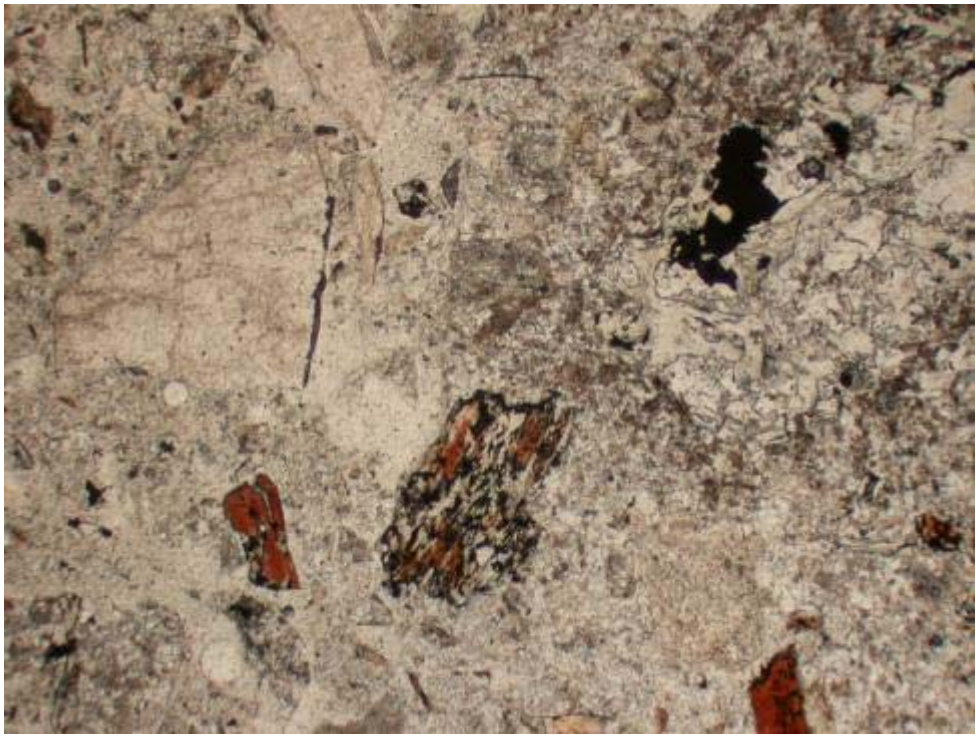
Chip and Offcut Mount Description:
Fine to coarse angular chips (less than 11 mm size) and very light grey powder. Chips comprise light gray porphyritic rock with fine-grained matrix and quartz vein. Minor fine-grained, disseminated brass-coloured sulphide minerals. Strong reaction of chips to cold dilute HCl. No reaction of chips to magnet. Groundmass of porphyritic rock has reacted to etching with HF and staining with sodium cobaltinitrite (yellow stain).

Polished Thin Section Description:
Fine to coarse chips representing pervasively sericite-carbonate altered biotite-plagioclase porphyritic rock as well as quartz±K-feldspar and carbonate vein fragments. The porphyritic rock groundmass is fine to very fine-grained (typically < 100 μm size grains) and comprises dominantly K-feldspar and quartz; K-feldspar is locally partly replaced by very fine-grained carbonate. The porphyritic rock phenocryst assemblage comprises fine-grained brown platy biotite (~5% of the section), fine to medium-grained sericite-carbonate altered plagioclase (~15%) and traces of fine-grained muscovite. Tabular feldspar phenocrysts are replaced by a felted aggregate of muscovite (sericite) and patchy carbonate aggregate. Biotite phenocrysts and liberated biotite plates are locally partly replaced by chlorite, patchy carbonate, rutile and pyrrhotite. Muscovite (sericite) occurs in abundant amounts, likely as much as 15%, within the porphyritic rock fragments. Chlorite occurs as platy aggregates with muscovite (sericite), locally carbonate, rutile and/or pyrrhotite aggregate. Chlorite comprises approximately 1% of the section.

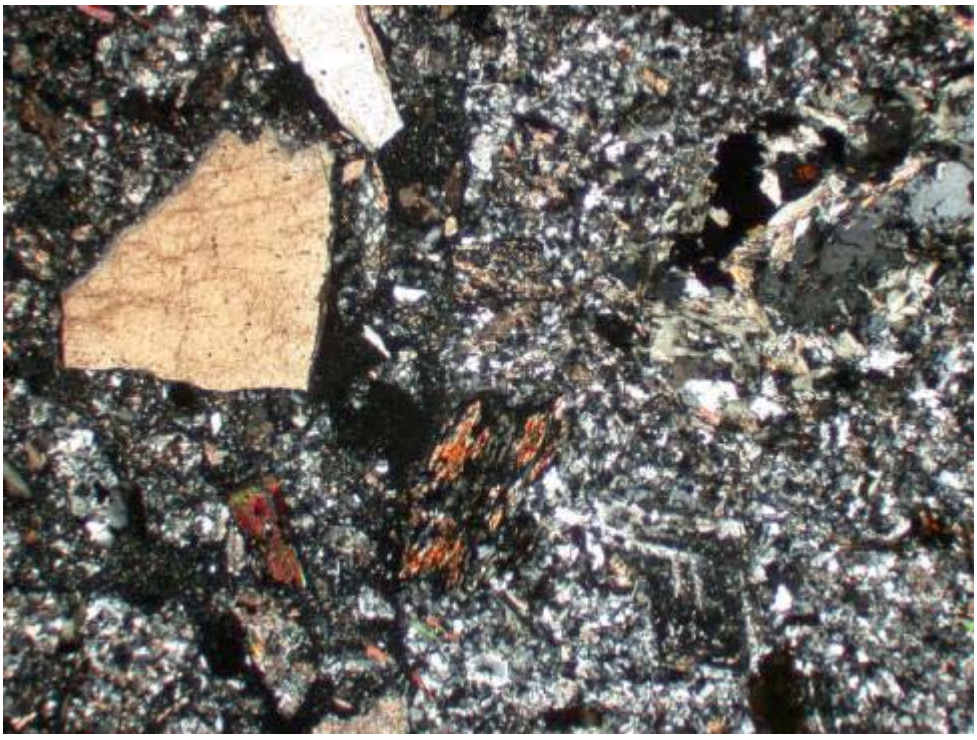
Total carbonate comprises approximately 7% of the section. Carbonate is colourless and occurs in roughly equal proportions as 1) very fine-grained anhedral grains and patchy aggregates that occur with sericite as replacement of feldspar within porphyritic rock fragments and 2) fine-grained liberated vein fragments. Rarely, traces of red-brown Fe-oxide/oxyhydroxide occur partly replacing carbonate aggregate.

Sulphide occurs in minor amounts, approximately 3%, dominantly as pyrrhotite and pyrite with traces of arsenopyrite, chalcopyrite, marcasite, sphalerite and an unknown phase. Pyrrhotite, approximately 2%, occurs as fine-grained (< 0.4 mm) anhedral grains and aggregates within porphyritic rock chips, as liberated grains and as replacement of biotite. Locally pyrrhotite encloses euhedral pyrite grains. Rarely pyrrhotite occurs intergrown with chalcopyrite. Pyrrhotite grain boundaries are irregular but unaltered. Pyrite, approximately 1%, occurs disseminated as fine to very fine-grained (< 0.5 mm), eu-anhedral grains and massive aggregates within rock chips and as liberated grains. Irregular patches of very fine-grained marcasite occur locally with pyrite aggregate. Pyrite grains are locally pitted. Some pyrite grain boundaries are irregular but alteration rims are not evident. Traces of arsenopyrite occur as fine-grained (< 0.15 mm) liberated crystals with rhombic forms and as anhedral grains and aggregates. Arsenopyrite rims are clean without alteration. Traces of sphalerite occur as very fine- grains locally associated with pyrite. One grain of an unknown highly reflective, grey, strongly anisotropic phase occurs associated with chalcopyrite.

An unknown orange-brown Fe-oxyhydroxide occurs in trace amounts as very fine-grained aggregates in the section.

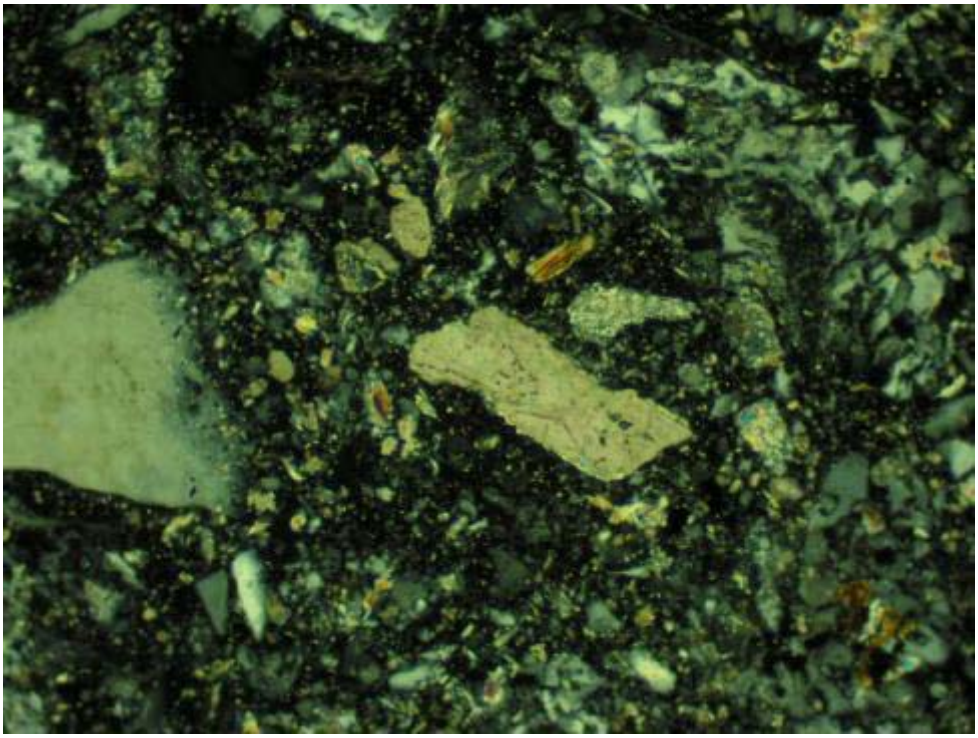


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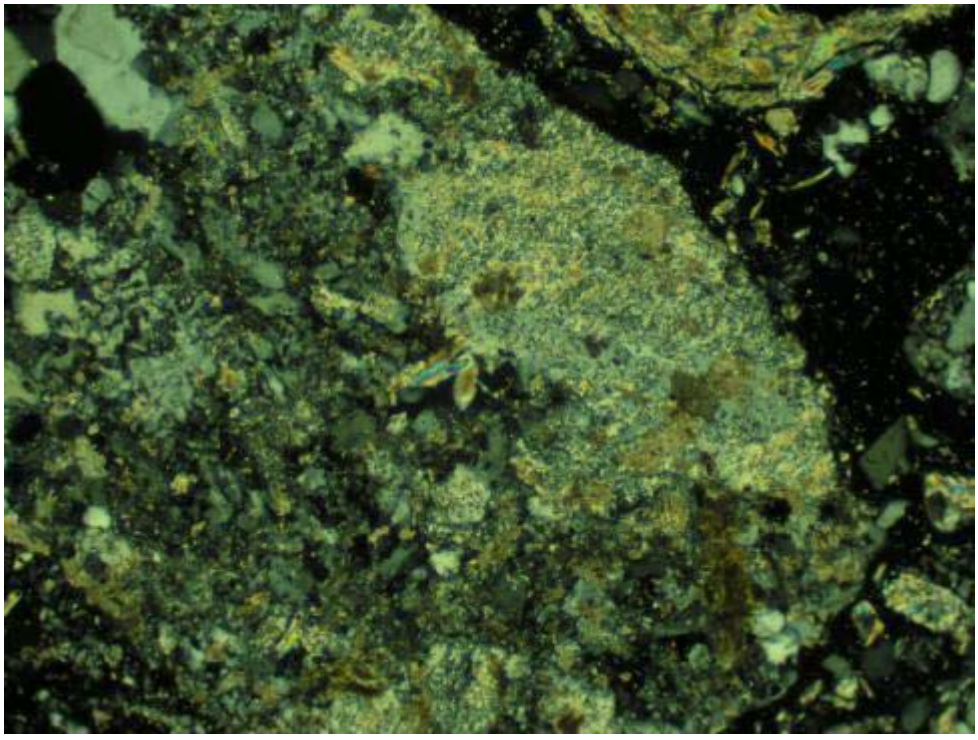


B

DG07-303C 175.26-185.93: Representative chips of muscovite (sericite) and carbonate-altered feldspar-biotite porphyritic rock (right) and quartz vein fragments (left). A) PPL, B) XPL, FOV =~ 4.5 mm.

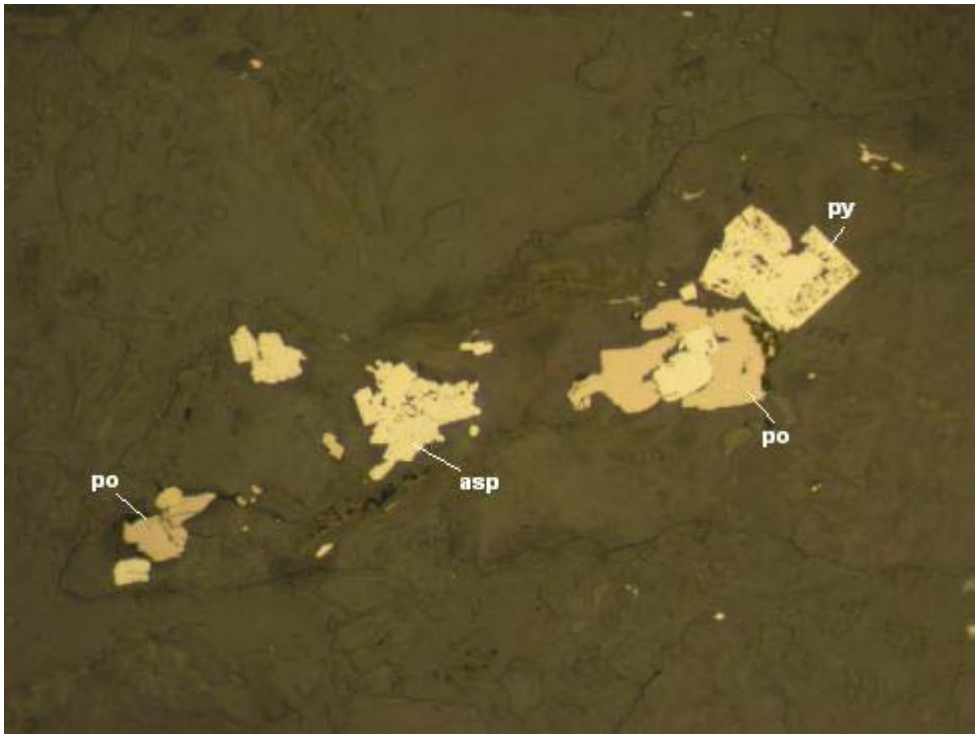


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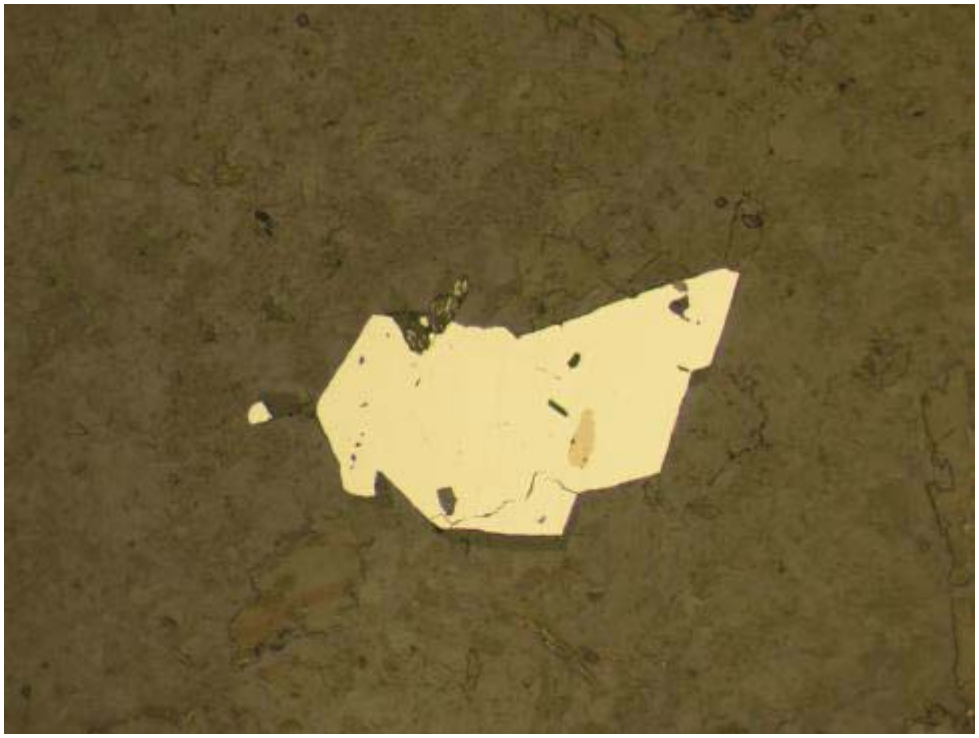


D

DG07-303C 175.26-185.93: C) Liberated carbonate from vein fragment (centre). XPL, FOV =~ 1.3 mm, D) Detailed view of selectively pervasive muscovite (sericite) and carbonate alteration of plagioclase phenocrysts and matrix of porphyritic rock. XPL, FOV =~ 1.3 mm

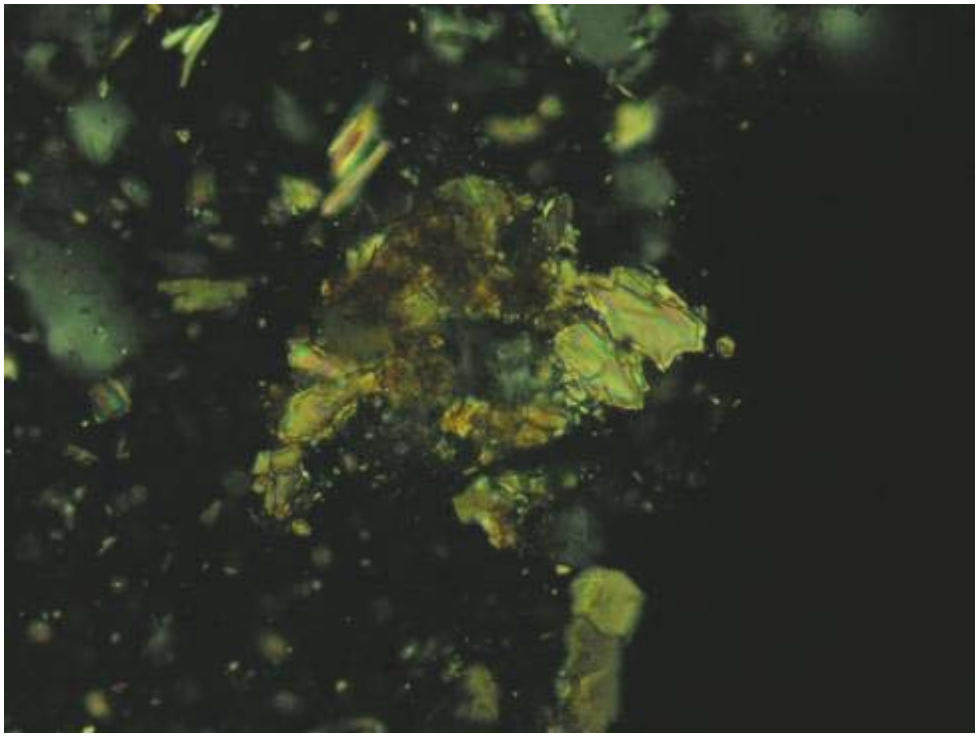


E



F

DG07-303C 175.26-185.93: E) Euhedral pitted pyrite (py) aggregates, pyrite enclosed by pyrrhotite (po), and pyrite-arsenopyrite (asp) aggregate. RL. FOV =~ 0.55 mm. F) Euhedral arsenopyrite aggregate with inclusion of pyrrhotite. RL. FOV =~ 1.3 mm. Note absence of alteration rims in both photographs.


G

DG07-303C 175.26-185.93: G) Carbonate aggregate partly replaced by red-brown Fe-oxide/oxyhydroxide aggregate. XPL. FOV =~ 0.7 mm.

SGS-CEMI Project #: 0789 Strata Gold Corp
Sample ID: DG07-305C 1.52-9.14 Offcut #: AN-2A

Chip and Offcut Mount Description:
Fine to coarse angular chips (less than 10 mm size) and light olive grey powder. Chips comprise aphanitic grayish-black banded rock. Traces of fine-grained, disseminated brass-coloured sulphide minerals. Typically no reaction to cold dilute HCl (slight reaction of one chip). No reaction of chips to magnet. Reaction of some rock fragments to etching with HF and staining with sodium cobaltinitrite (some yellow stain).

Polished Thin Section Description:
Fine to coarse chips of dominantly biotite-quartz±andalusite hornfels, lesser pyroxene skarn, rare muscovite (sericite) altered biotite hornfels and a variety of quartz±K-feldspar veins. Biotite-quartz±andalusite hornfels chips comprise dominantly fine to very fine-grained red-brown biotite, very fine-grained quartz, locally, fine-grained ragged andalusite and feldspar. Biotite comprises approximately 15% of the section; andalusite comprises approximately 1% of the section. Trace chlorite occurs very rarely as replacement of biotite. Muscovite (sericite) occurs in major amounts as replacement of biotite hornfels (approximately 5% of section). Actinolite occurs rarely in quartz vein fragments with K-feldspar. Pyroxene skarn chips comprise dominantly clinopyroxene with minor carbonate, garnet and quartz. Clinopyroxene comprises approximately 5% of the section. Quartz vein fragments typically comprise fine-grained anhedral quartz±K-feldspar aggregate, locally with K-feldspar vein margins. Some vein fragments consist of quartz-clinopyroxene-K-feldspar±titanite aggregate. Rare traces of fine-grained scheelite have been identified in this latter type of vein fragment. Pyrrhotite occurs disseminated in some vein fragments and orange-brown Fe-oxide/oxyhydroxide aggregate occurs locally as vein infill.

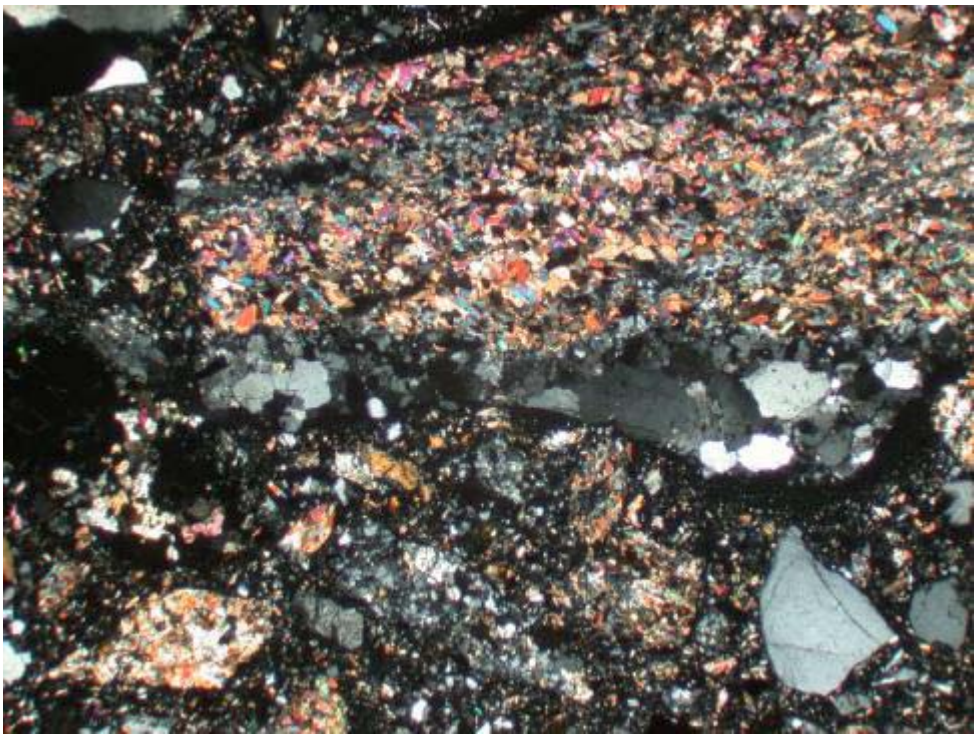
Carbonate occurs in trace amounts as fine-grained, colourless aggregates within pyroxene skarn or as liberated fragments. Liberated carbonate chips are rimmed and partly replaced by very fine-grained red-brown Fe-oxide/oxyhydroxide aggregates.

Sulphide occurs in minor amounts, approximately 1%, mainly as pyrrhotite and rarely arsenopyrite, chalcopyrite and pyrite-marcasite aggregate. Pyrrhotite, approximately 1%, occurs as fine-grained (typically < 0.2 mm) anhedral grains and aggregates (maximum grain size is 1mm) within biotite-quartz±andalusite hornfels, pyroxene skarn rock chips, quartz±K-feldspar veins, as liberated grains and as replacement of biotite. Rarely pyrrhotite occurs intergrown with fine-grained chalcopyrite (< 0.1 mm size grains). Pyrrhotite grain boundaries are irregular but generally unaltered. Rarely pyrrhotite and quartz aggregates are cemented by very fine-grained red-brown Fe-oxide/oxyhydroxide. Some pyrrhotite grains have weathered forming a bird's eye texture composed of pyrite and marcasite. Other pyrrhotite grains have altered to marcasite pseudomorphs. Traces of fine-grained anhedral arsenopyrite occur as liberated grains. One very fine-grained pyrite-marcasite aggregate is partly rimmed by red-brown Fe-oxide/oxyhydroxide

Red and orange-brown very fine-grained Fe-oxyhydroxide aggregates comprise approximately 1% of the section as replacement of carbonate, as fracture infill, as cement and rims and stain of rock chips.

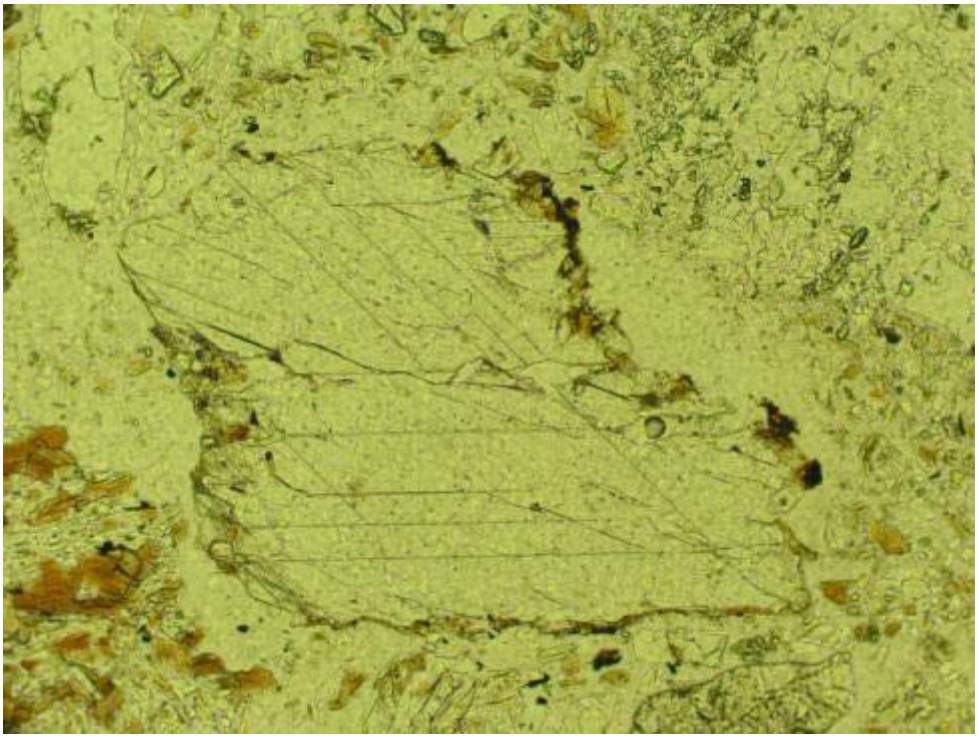


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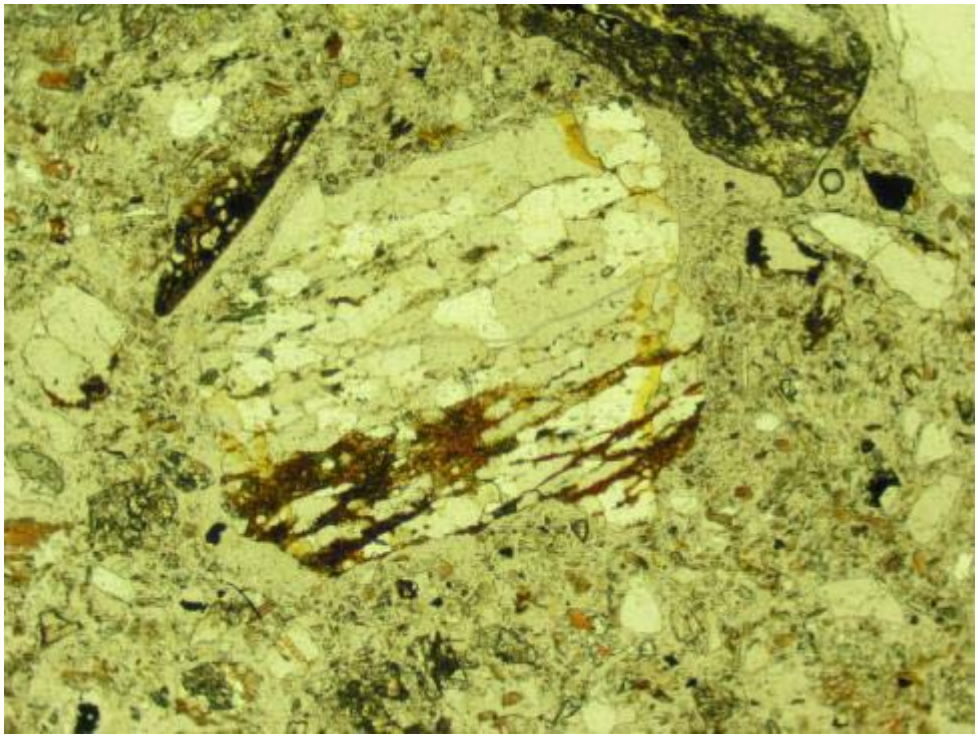


B

DG07-305C 1.52-9.14: Representative chips of biotite-quartz±andalusite hornfels (top), pyroxene-garnet skarn (left), quartz-K-feldspar vein (centre) and fragments of liberated quartz (lower right). A) PPL, B) XPL, FOV =~ 4.5 mm.

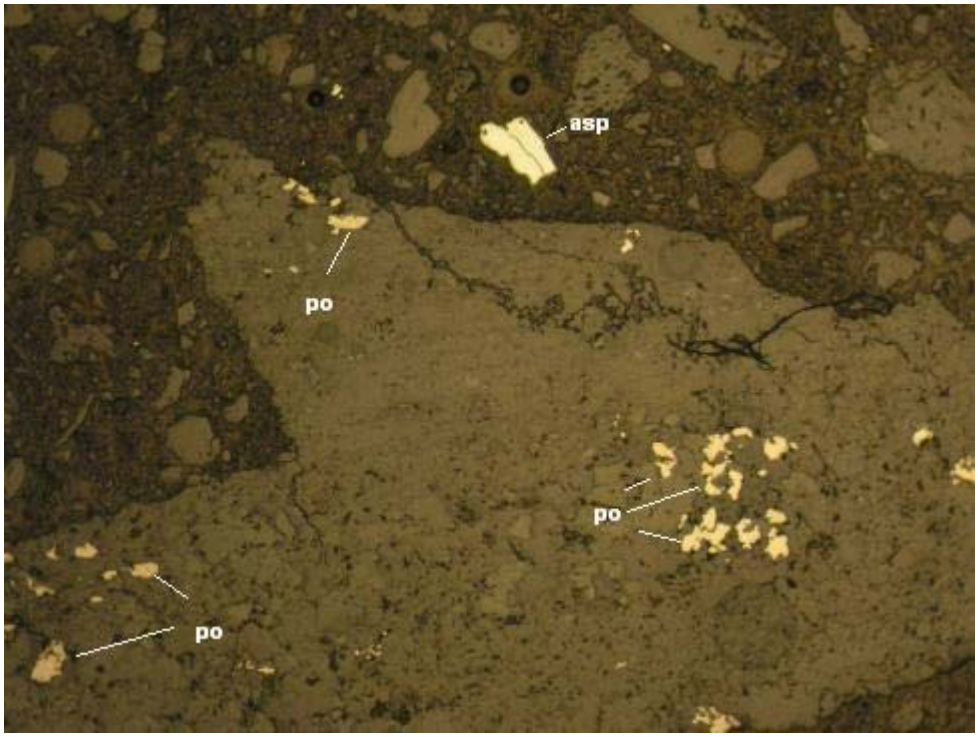


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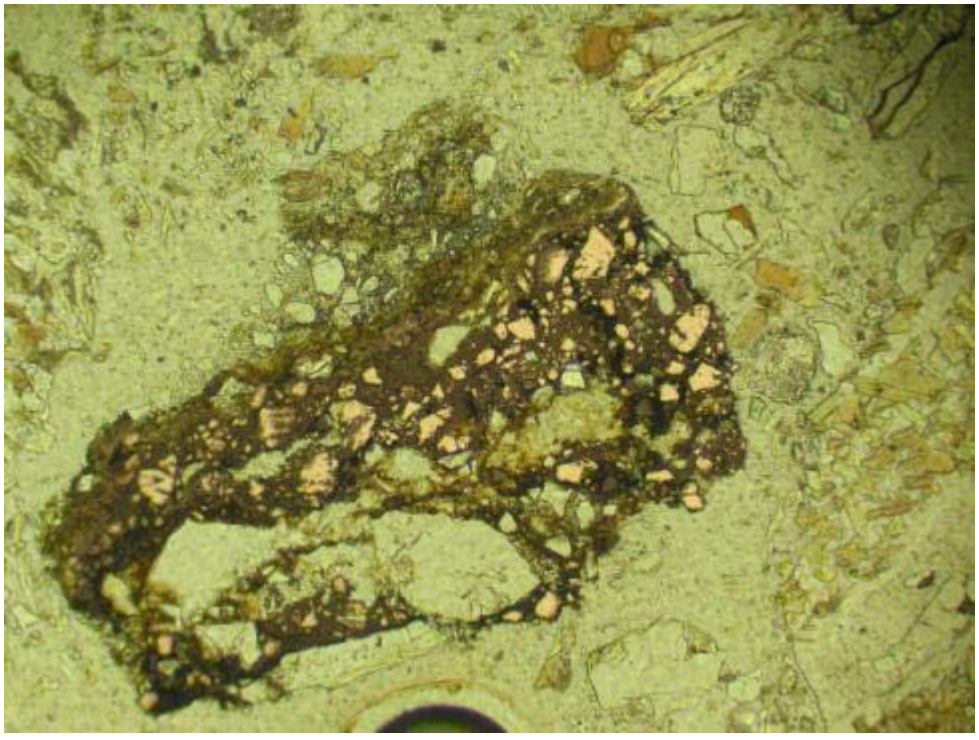


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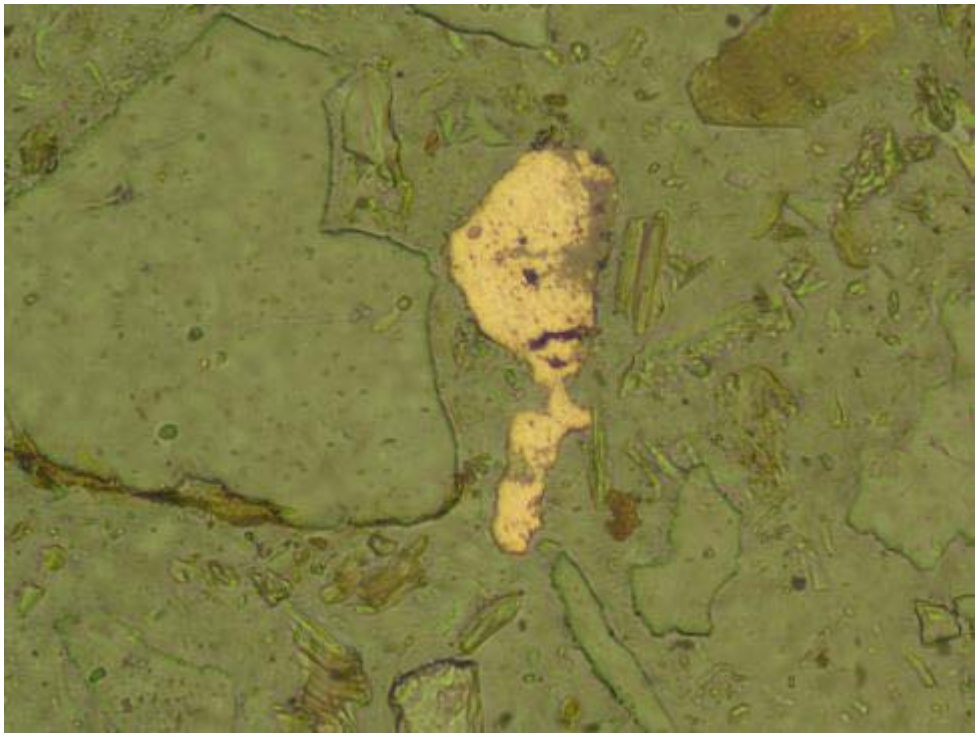
DG07-305C 1.52-9.14: C) Liberated carbonate fragment with rim of red-brown Fe-oxide/oxyhydroxide aggregate. PPL, FOV =~ 1.3 mm. D) Fracture-controlled red-brown Fe-oxide/oxyhydroxide aggregate within quartz vein fragment . PPL, FOV =~ 2.8 mm.

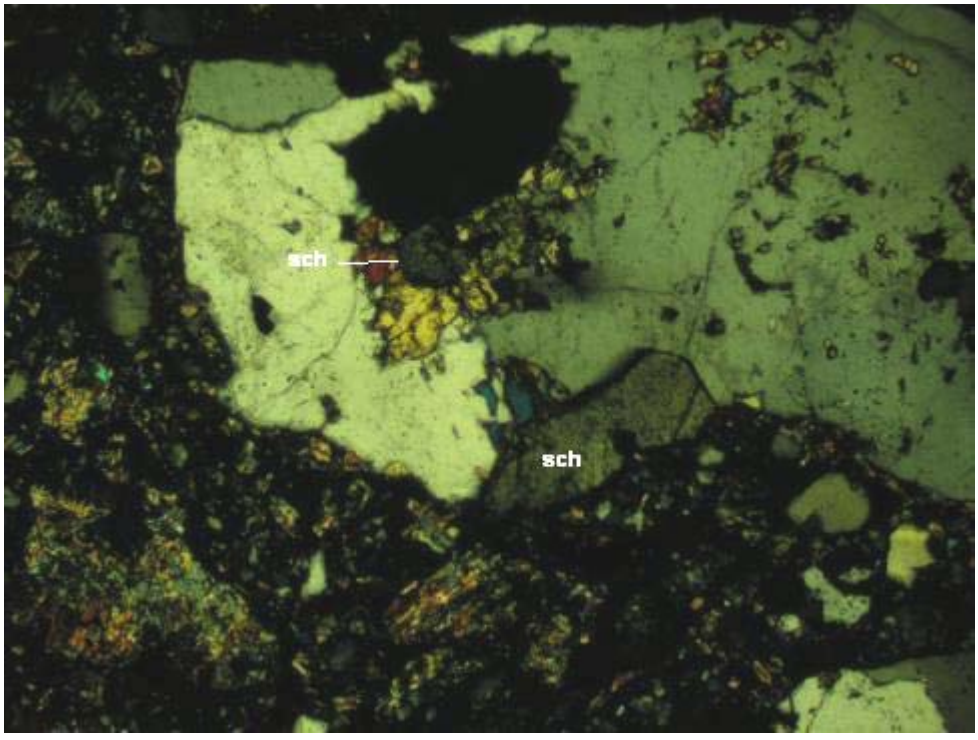


E


F

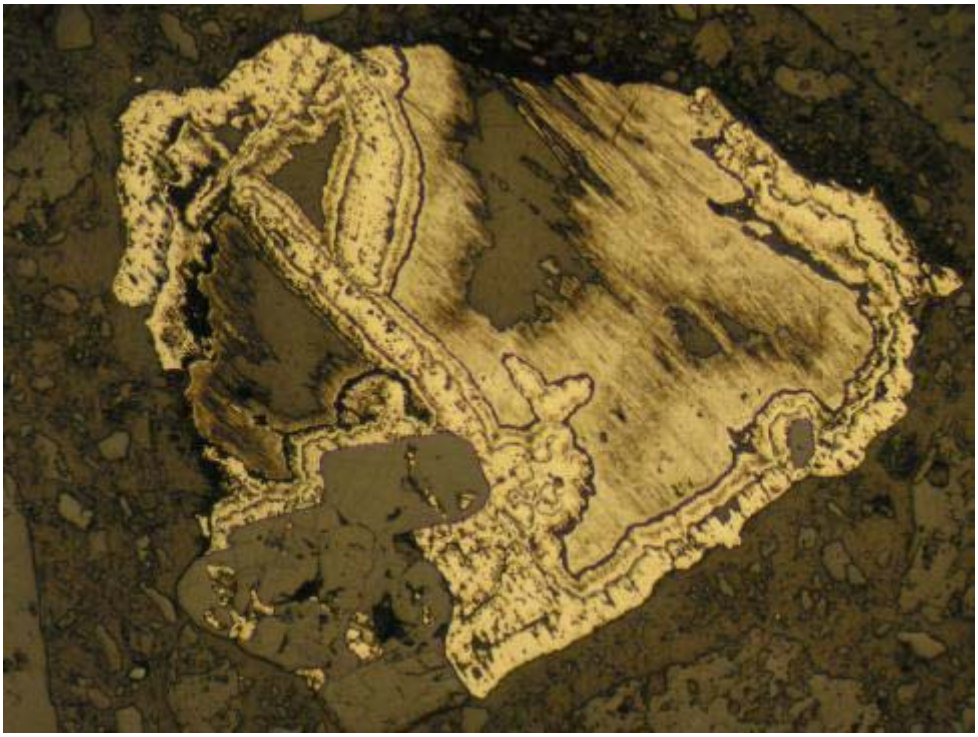
DG07-305C 1.52-9.14: E) Pyrrhotite (po) grains disseminated in quartz-feldspar-clinopyroxene rock fragment; liberated arsenopyrite (asp). RL, FOV =~ 1.3 mm. F) Pyrrhotite and quartz aggregates cemented by very fine-grained red-brown Fe-oxide/oxyhydroxide. PPL+RL, FOV =~ 0.55 mm.


G



H

DG07-305C 1.52-9.14: G) Liberated pyrite-marcasite aggregate partly replaced by red-brown Fe-oxide/oxyhydroxide. PPL+RL, FOV =~ 0.7 mm. H) Scheelite grains within quartz-scheelite-clinopyroxene vein fragment. XPL, FOV =~ 2.0 mm.


I

DG07-305C 1.52-9.14: I) Pyroxene-pyrrhotite skarn fragment. Note pyrrhotite weathered to bird's eye texture (pyrite-marcasite) and core altered to marcasite pseudomorph. RL, FOV =~1.0 mm.

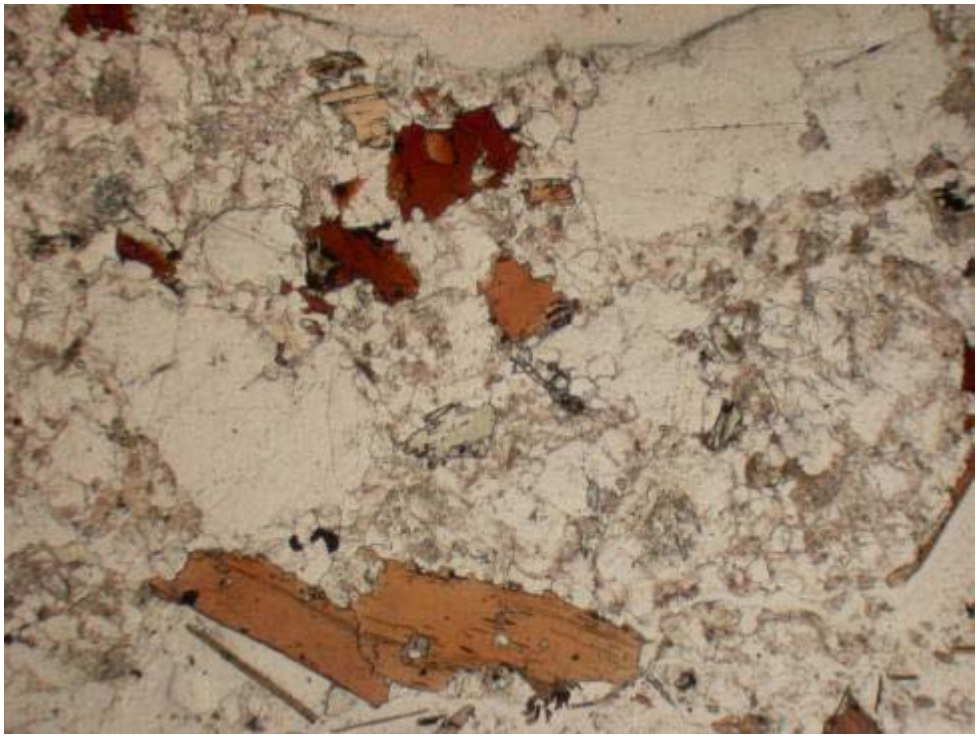
SGS-CEMI Project #: 0789 Strata Gold Corp
Sample ID: DG07-305C 169.03-178.31 Offcut #: AN-3A

Chip and Offcut Mount Description:
Fine to coarse angular chips (less than 10 mm size) and very light grey powder. Chips comprise light gray fine to medium-grained intrusive rock with traces of quartz vein fragments. Minor fine-grained, disseminated brass-coloured sulphide minerals. Strong reaction of chips to cold dilute HCl. No reaction of chips to magnet. Reaction of intrusive rock fragments to etching with HF and staining with sodium cobaltinitrite (some yellow stain).

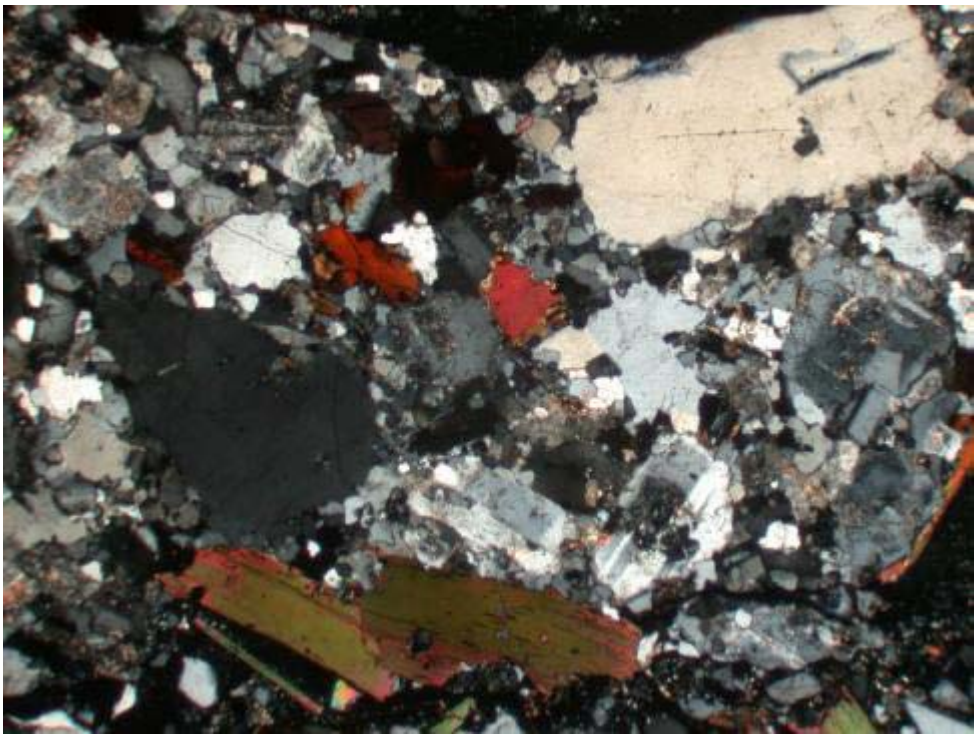
Polished Thin Section Description:
Fine to coarse chips representing pervasively sericite-carbonate altered seriate inequigranular biotite granodiorite, quartz-K-feldspar±muscovite fragments, quartz vein as well as liberated quartz and biotite grains. The seriate inequigranular rock is fine to medium-grained (maximum 2 mm size grains) and comprises dominantly fine to medium-grained plagioclase, fine to medium-grained quartz and fine-grained orthoclase with lesser tan-red brown platy biotite (~10%). Plagioclase is partly replaced by a felted aggregate of muscovite (sericite) and patchy carbonate aggregate. Muscovite (sericite) comprises approximately 5% of the section. Platy muscovite occurs in trace amounts. Biotite within granodiorite fragments and liberated biotite plates together comprise ~15% of the section. Biotite is rarely partly replaced by chlorite, patchy rutile or pyrrhotite. Traces of ilmenite occur within granodiorite rock fragments. Chlorite occurs in trace amounts with carbonate as veinlets and rarely as replacement of biotite.

Total carbonate comprises approximately 3% of the section. Carbonate is dominantly colourless and occurs as 1) very fine-grained anhedral grains and patchy aggregates that occur with sericite as replacement of plagioclase within porphyritic rock fragments, 2) fine-grained veinlets and infill to rock fragments and 3) fine-grained liberated fragments. Colourless carbonate infill within quartz-K-feldspar aggregate is partly replaced by very fine-grained titanite grains and locally by prismatic rutile aggregates.

Sulphide occurs in minor amounts, approximately 1%, dominantly as pyrrhotite with traces of pyrite, arsenopyrite and chalcopyrite. Pyrrhotite, approximately 1%, occurs as fine-grained (< 0.2 mm) anhedral grains and aggregates within granodiorite rock chips, as liberated grains and as replacement of biotite. Locally pyrrhotite encloses euhedral pyrite grains. Rarely pyrrhotite occurs intergrown with chalcopyrite. Pyrrhotite grain boundaries are irregular but generally unaltered. Two grains of pyrrhotite were observed with rims partly replaced by traces of red Fe-oxide/oxyhydroxide. Trace pyrite occurs disseminated as fine to very fine-grained (< 0.1 mm), euhedral grains and aggregates within rock chips and as liberated grains. Pyrite grains are locally pitted. Pyrite grain boundaries are unaltered. Traces of arsenopyrite occur as fine to very fine-grained (< 0.7 mm) liberated grains. Arsenopyrite rims are clean without alteration.

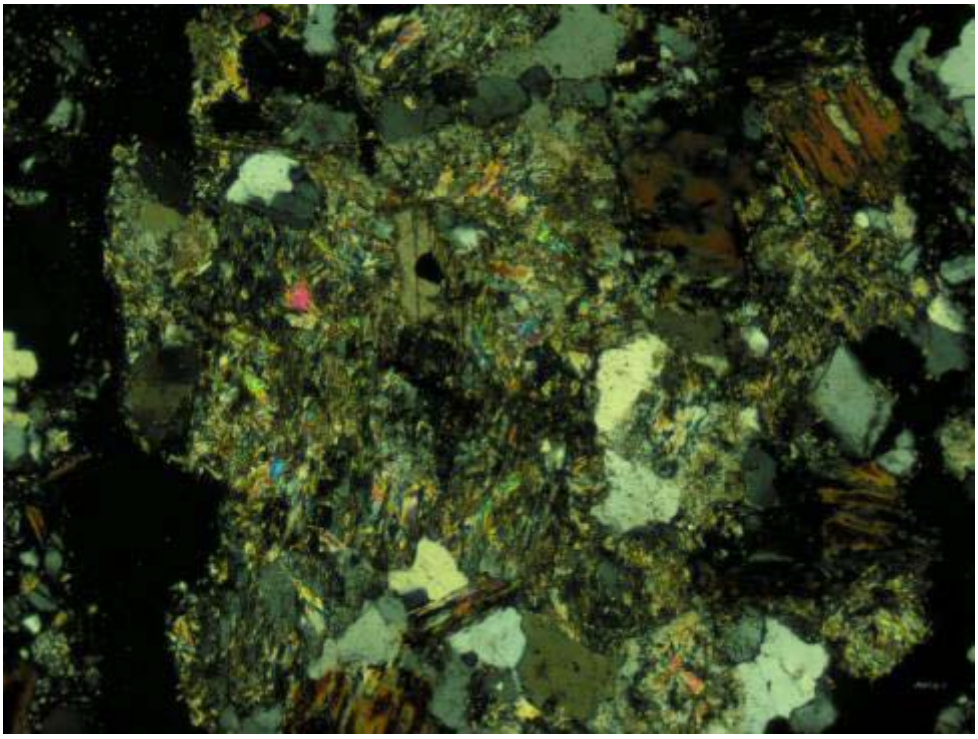


A



B

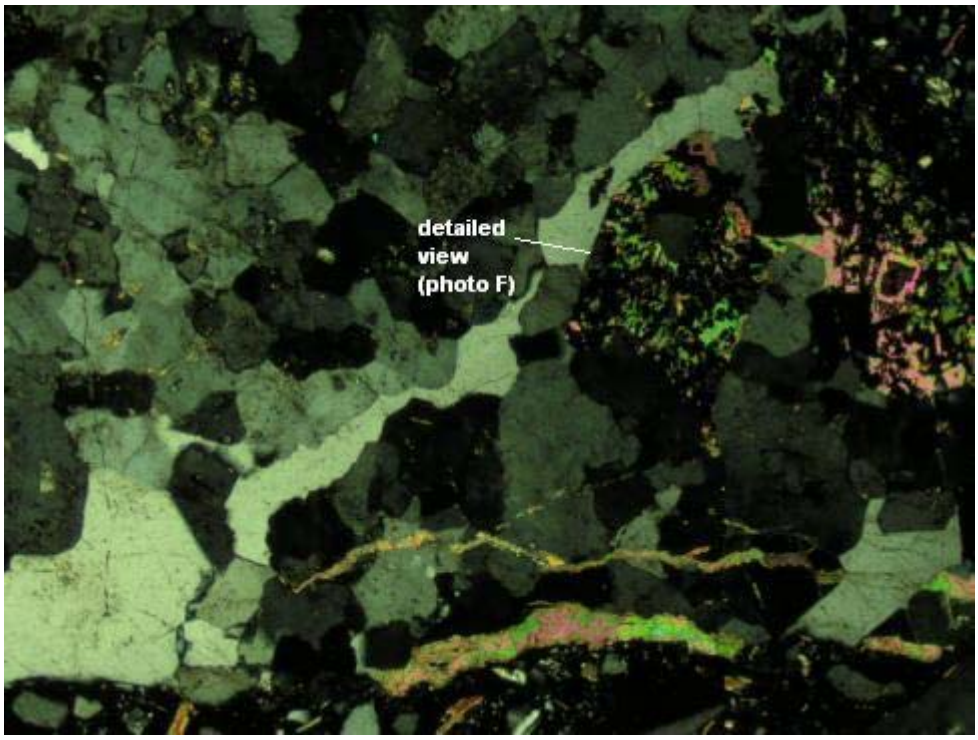
DG07-305C 169.03-178.31: Representative chip of seriate inequigranular biotite granodiorite. A) PPL, B) XPL, FOV =~ 4.5 mm.


C

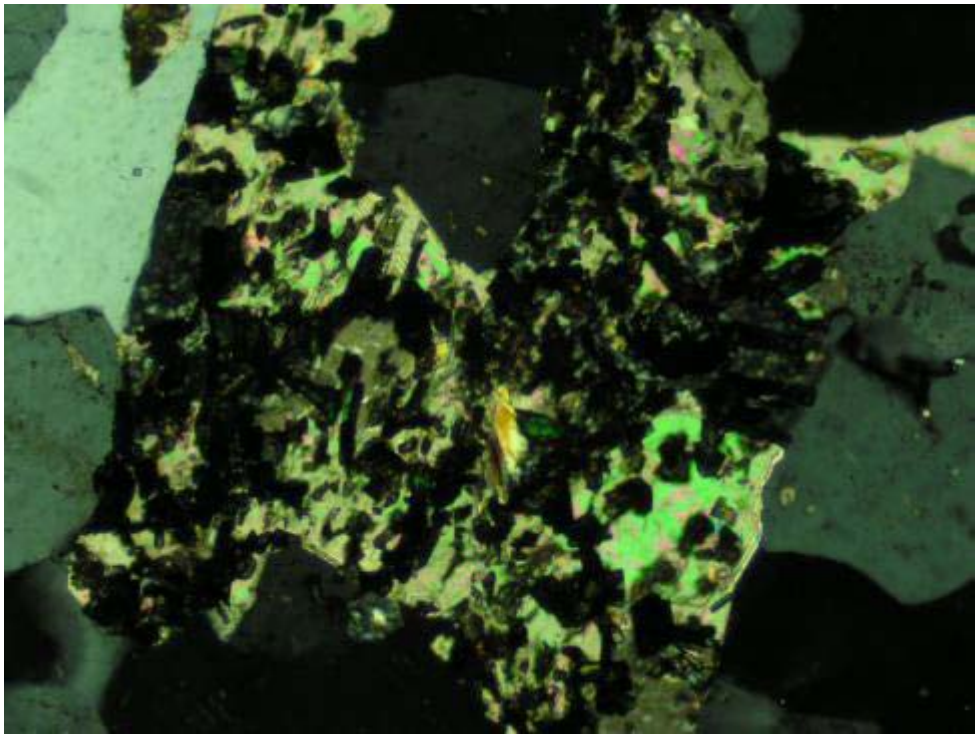


D

DG07-305C 169.03-178.31: C) Carbonate and muscovite (sericite) altered plagioclase within biotite granodiorite fragment. XPL, FOV =~ 2.8 mm. C) Liberated carbonate grain (centre). XPL, FOV =~ 2.8 mm.

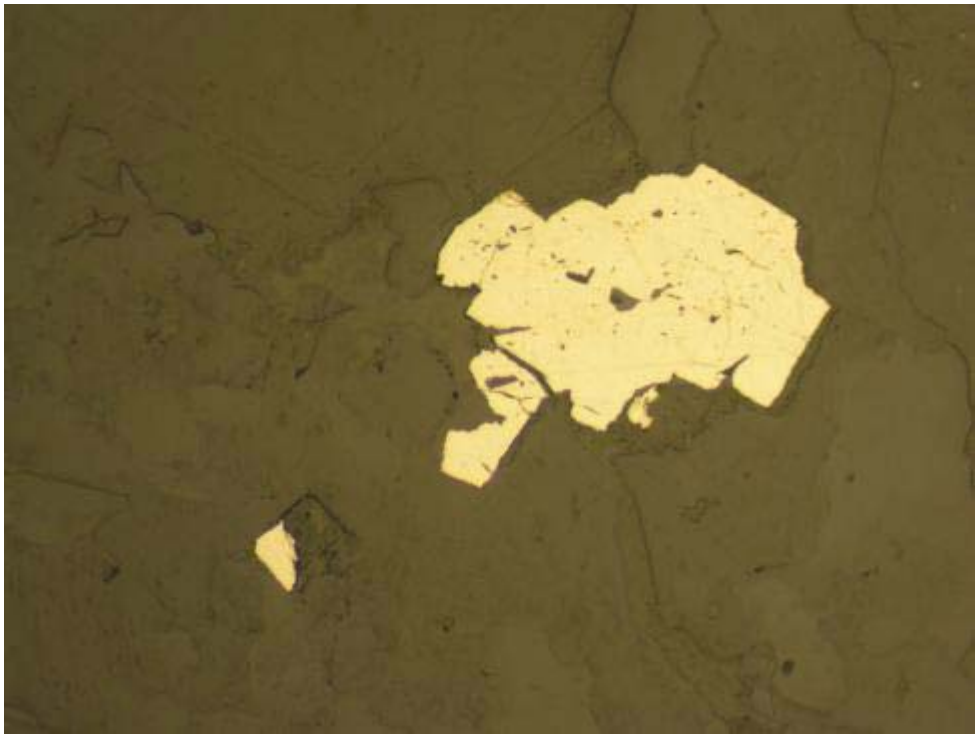


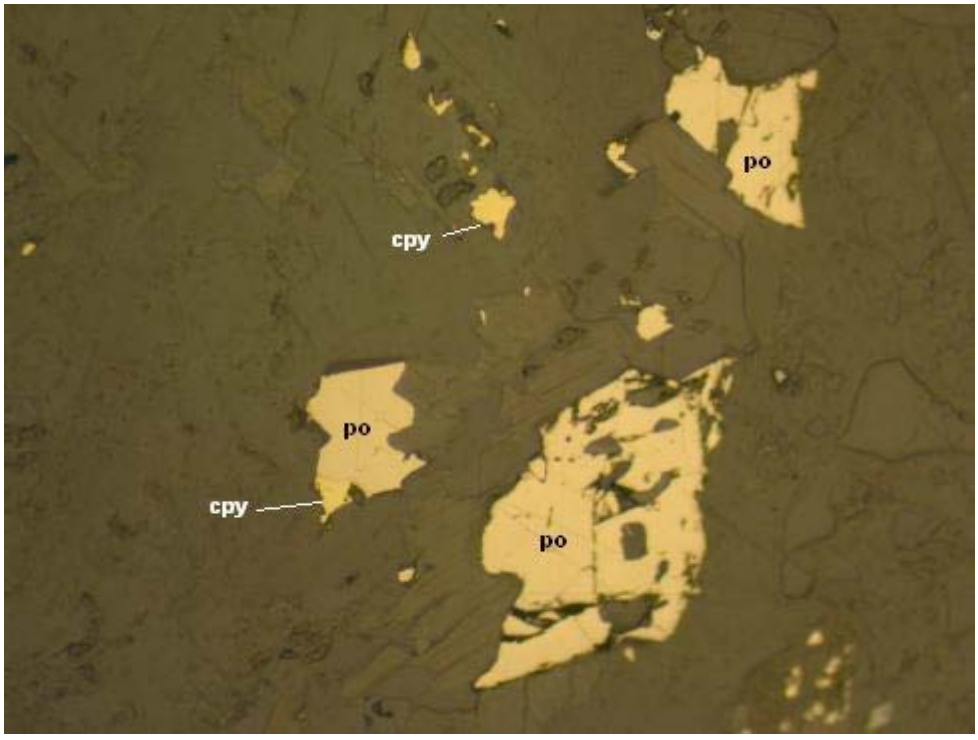
E



F

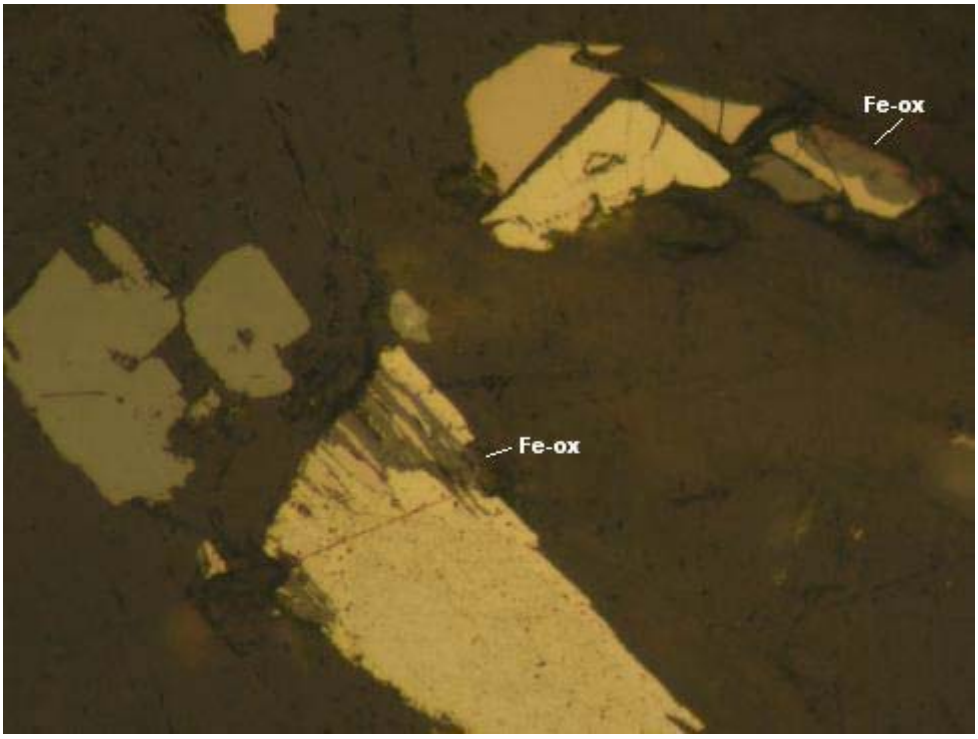
DG07-305C 169.03-178.31: E) Carbonate veinlets and carbonate infill within chips of quartz-K-feldspar aggregate. XPL, FOV =~ 2.8 mm, F) Colourless carbonate partly replaced by euhedral titanite grains and aggregates. XPL, FOV =~ 0.7 mm


G

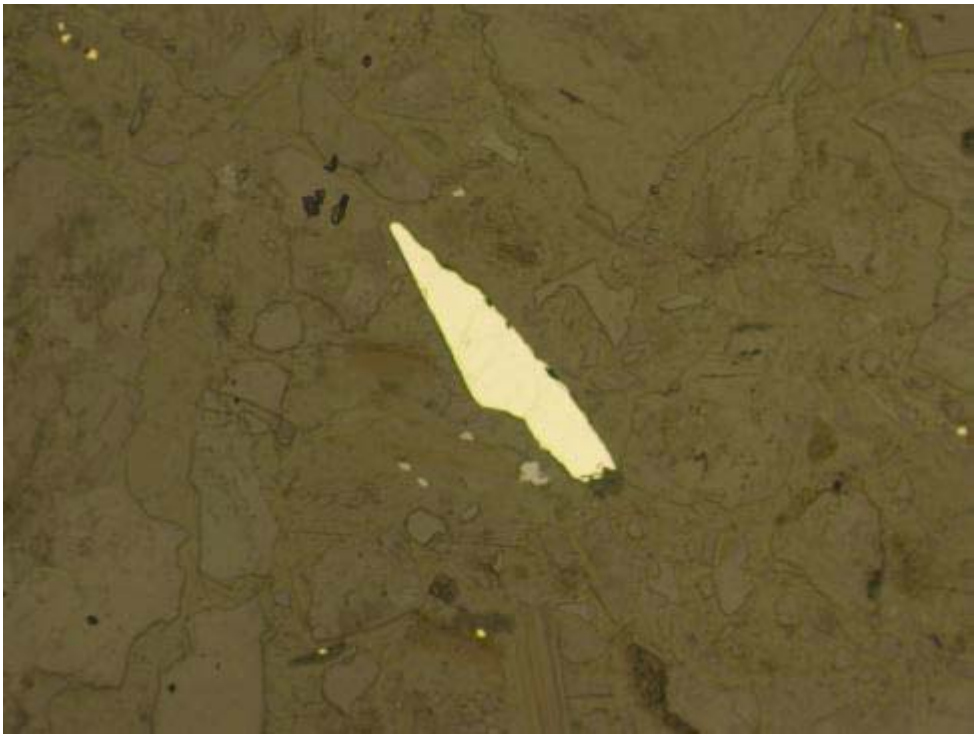


H

DG07-305C 169.03-178.31: G) Euhedral pitted pyrite aggregate (unaltered) occurs within fragment of quartz-K-feldspar-muscovite (sericite) aggregate. RL, FOV =~ 0.7 mm, H) Pyrrhotite (po) with irregular grain boundaries intergrown with chalcopyrite (cpy). RL, FOV =~ 0.7 mm



I



J

DG07-305C 169.03-178.31: I) Pyrrhotite encloses pyrite (top right) and is associated with pyrite (centre). Note pyrrhotite partly replaced by red Fe-oxide/oxyhydroxide aggregate (Fe-ox). RL, FOV =~ 0.15 mm, J) Liberated arsenopyrite fragment (centre). RL, FOV =~ 1.3 mm

SGS-CEMI Project #: 0789 Strata Gold Corp
Sample ID: DG07-331C 52.92-62.30 Offcut #: AN-4A

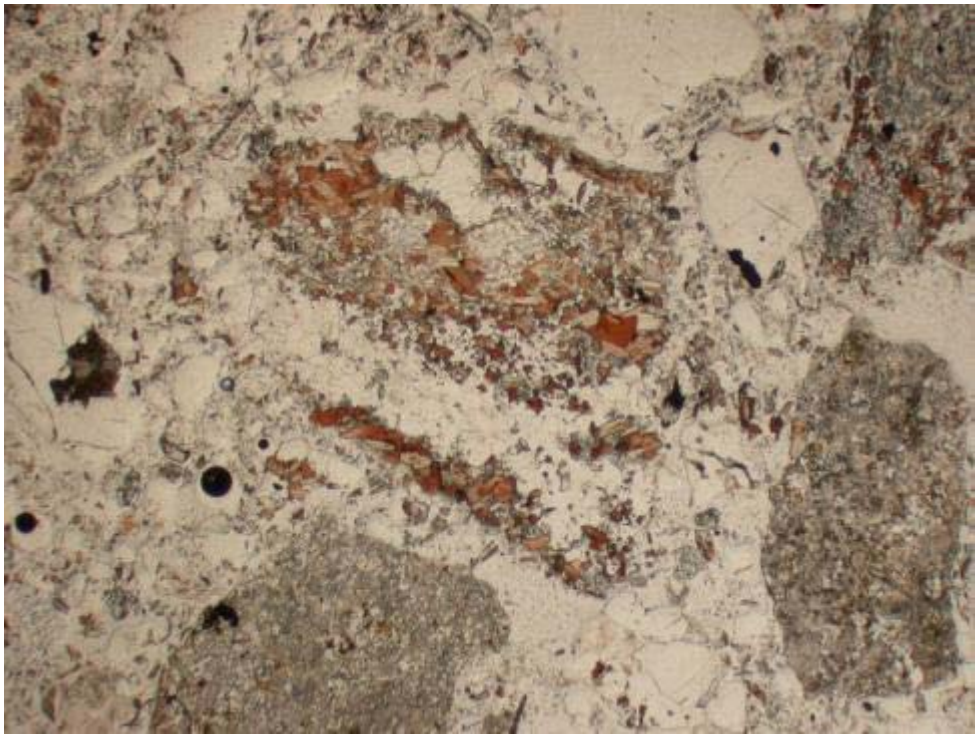
Chip and Offcut Mount Description:
Fine to coarse angular chips (less than 10 mm size) and pinkish-grey powder. Chips comprise aphanitic grayish-black banded rock and translucent quartz vein. Strong reaction of some fragments to cold dilute HCl. No reaction of chips to magnet. Reaction of some rock fragments to etching with HF and staining with sodium cobaltinitrite (some yellow stain).

Polished Thin Section Description:
Fine to coarse chips of dominantly biotite-quartz±andalusite hornfels, muscovite (sericite) altered biotite hornfels and a variety of quartz±K-feldspar veins. Biotite-quartz±andalusite hornfels chips comprise dominantly fine to very fine-grained red-brown biotite, very fine-grained quartz, locally, fine-grained ragged andalusite and feldspar. Biotite comprises approximately 15% of the section; andalusite comprises approximately 1% of the section. Minor chlorite, approximately 1%, and traces of rutile occurs as replacement of biotite. Muscovite (sericite) occurs in major amounts as replacement of biotite hornfels (approximately 10% of section). Quartz vein fragments typically comprise fine-grained anhedral quartz aggregate; K-feldspar is subordinate and occurs as linear arrays or individual crystals within the quartz aggregate. K-feldspar is partly replaced and locally fractured and infilled by carbonate. Traces of plagioclase occur within some of the quartz veins; plagioclase is virtually completely replaced by sericite and carbonate.

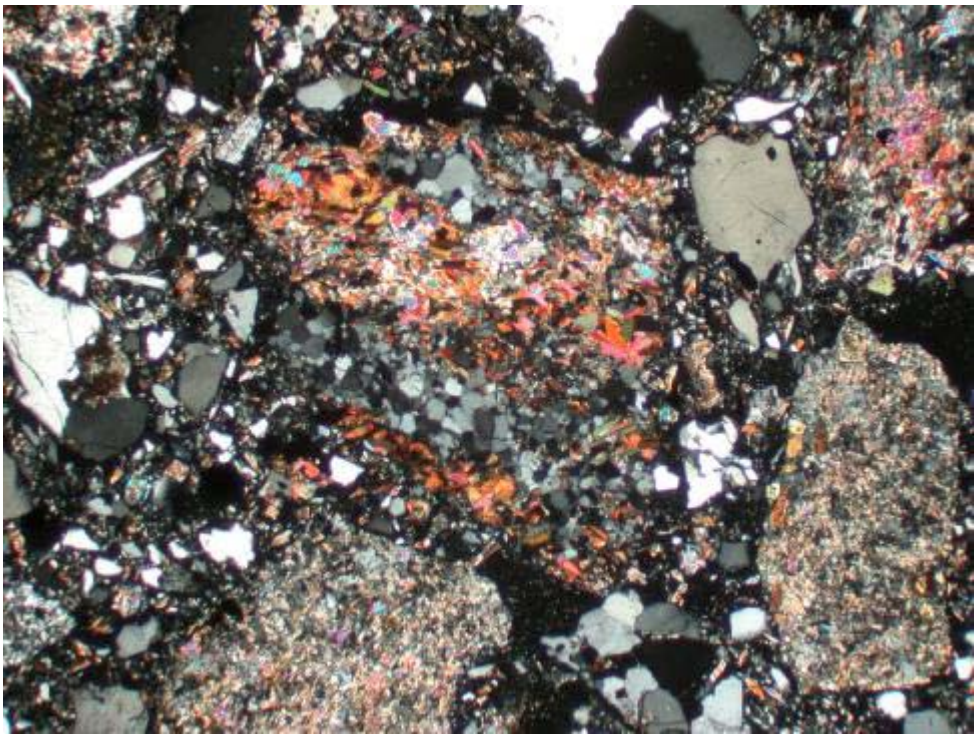
Carbonate occurs in trace amounts as very fine-grained aggregates replacing feldspar within quartz veins, as infill to quartz veins or as fine-grained liberated fragments. Some liberated carbonate chips are rimmed and partly replaced by very fine-grained red-brown Fe-oxide/oxyhydroxide aggregates.

Sulphide occurs in minor amounts, approximately 1%, mainly as pyrrhotite with traces of pyrite, chalcopyrite and marcasite. Pyrrhotite, approximately 1%, occurs as fine-grained (< 0.5 mm) anhedral grains and aggregates within biotite-quartz±andalusite hornfels, quartz±K-feldspar veins, as liberated grains and as replacement of biotite. Rarely pyrrhotite occurs intergrown with fine-grained chalcopyrite (< 0.15 mm size grains). Pyrrhotite grain boundaries are irregular and for the most part unaltered. A few pyrrhotite grains are rimmed and partly replaced by red-brown Fe-oxide/oxyhydroxide aggregate. Rarely, pyrrhotite grains have weathered forming a bird's eye texture composed of pyrite and marcasite. One pyrrhotite grain has altered to a marcasite pseudomorph. Trace pyrite occurs disseminated as fine to very fine-grained (< 0.15 mm), eu-anhedral grains and aggregates within rock chips and as liberated grains. Pyrite grains are locally pitted. Some pyrite grain boundaries are irregular. A few pyrite grains are rimmed and partly replaced by red-brown Fe-oxide/oxyhydroxide aggregates.

Red very fine-grained Fe-oxyhydroxide aggregates occur in trace amounts in the section as replacement of carbonate and locally pyrrhotite and pyrite.

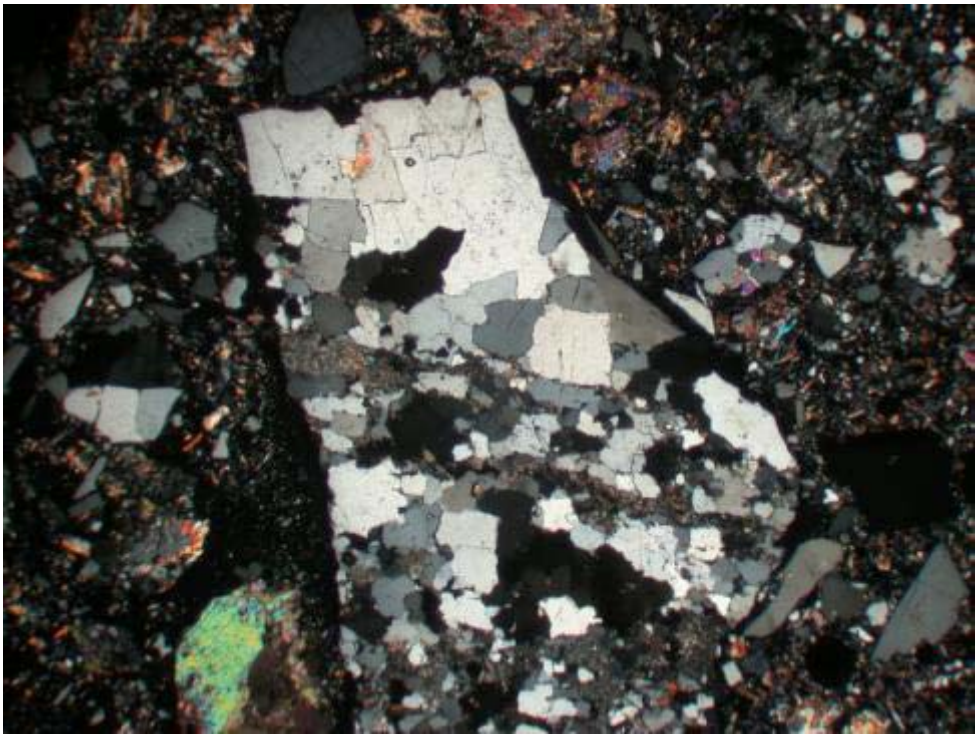


A

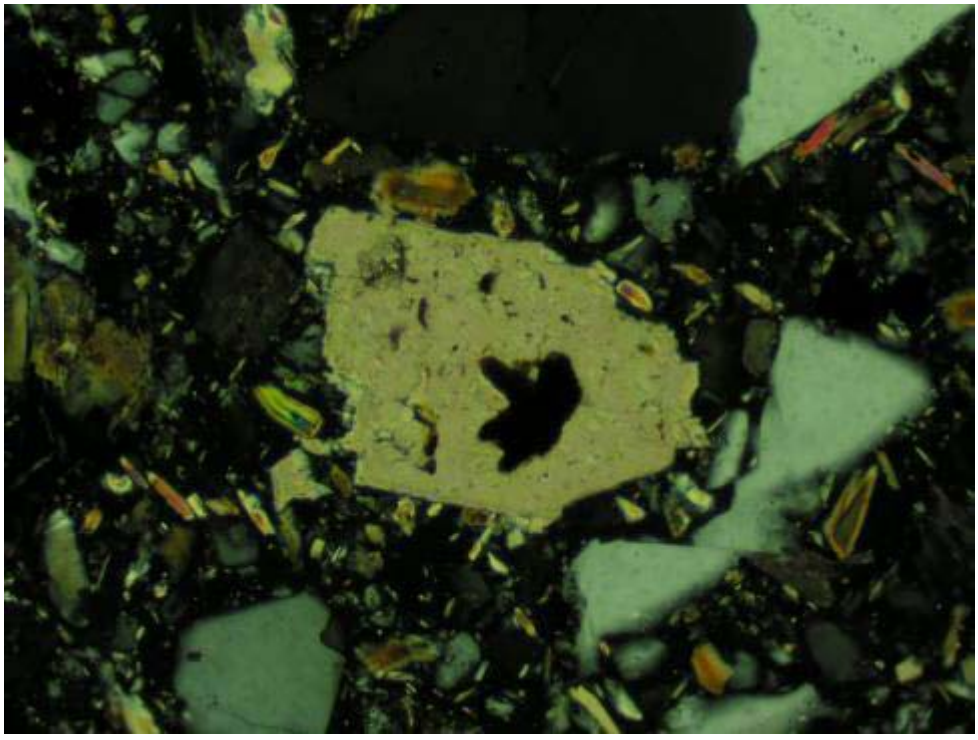


B

DG07-331C 52.92-62.30: Representative chips of biotite-quartz hornfels partly replaced by muscovite (sericite) alteration and quartz vein fragments. A) PPL, B) XPL, FOV =~ 4.5 mm.

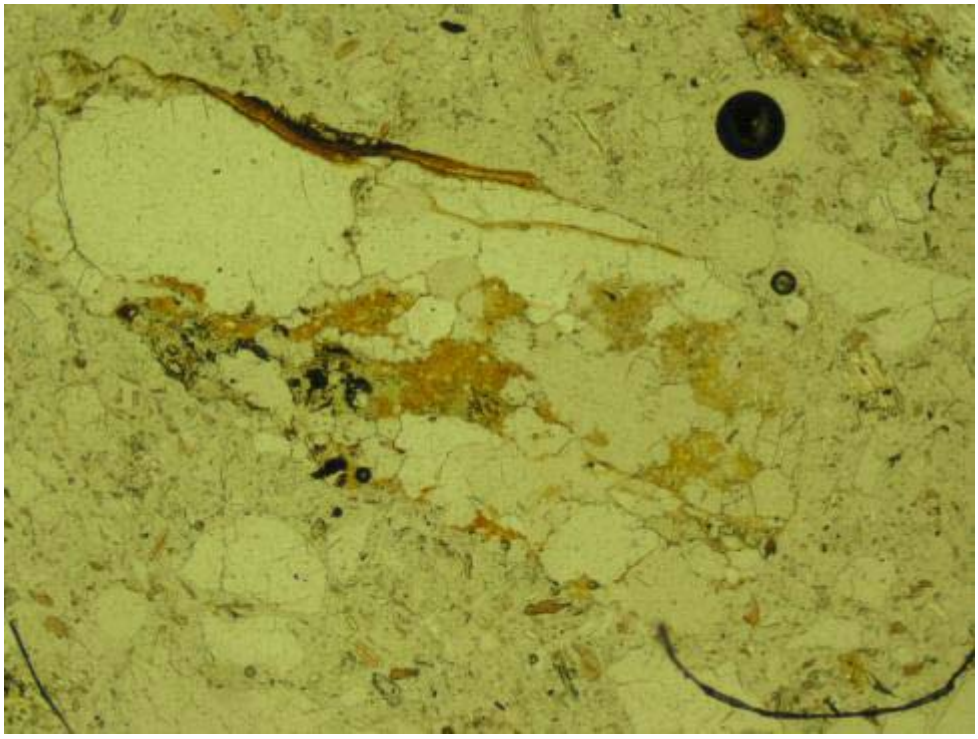


C

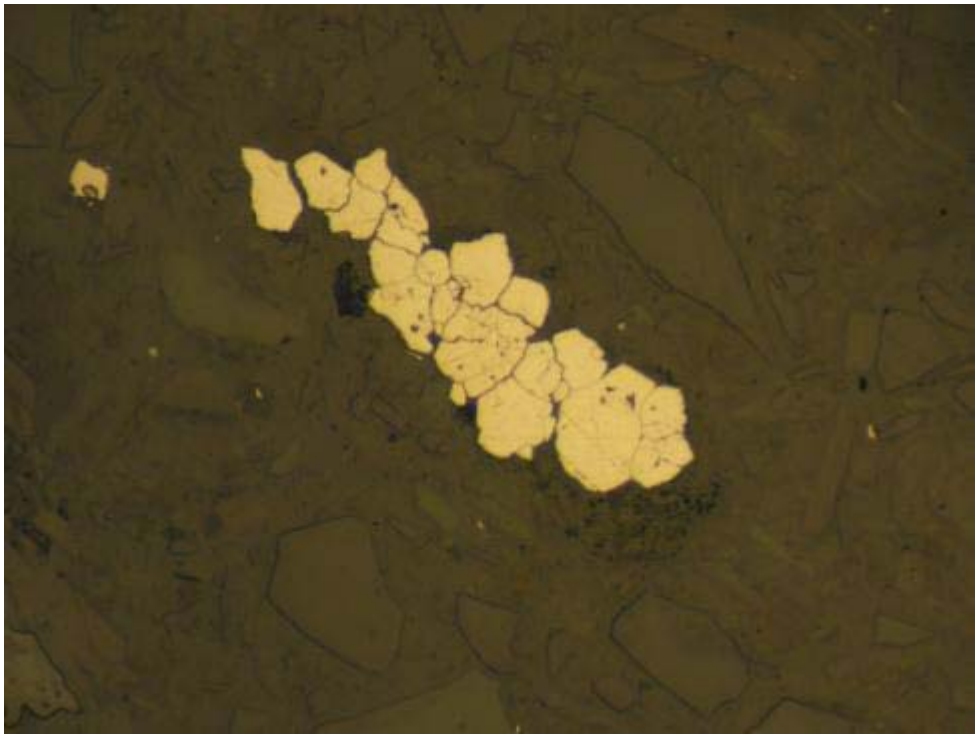


D

DG07-331C 52.92-62.30: C) Fragment of quartz vein with linear arrays of K-feldspar partly replaced by muscovite (sericite) and carbonate alteration. XPL, FOV =~ 4.5 mm. D) Liberated carbonate grain partly replaced by Fe-oxide/oxyhydroxide (centre). XPL, FOV = 0.7 mm.

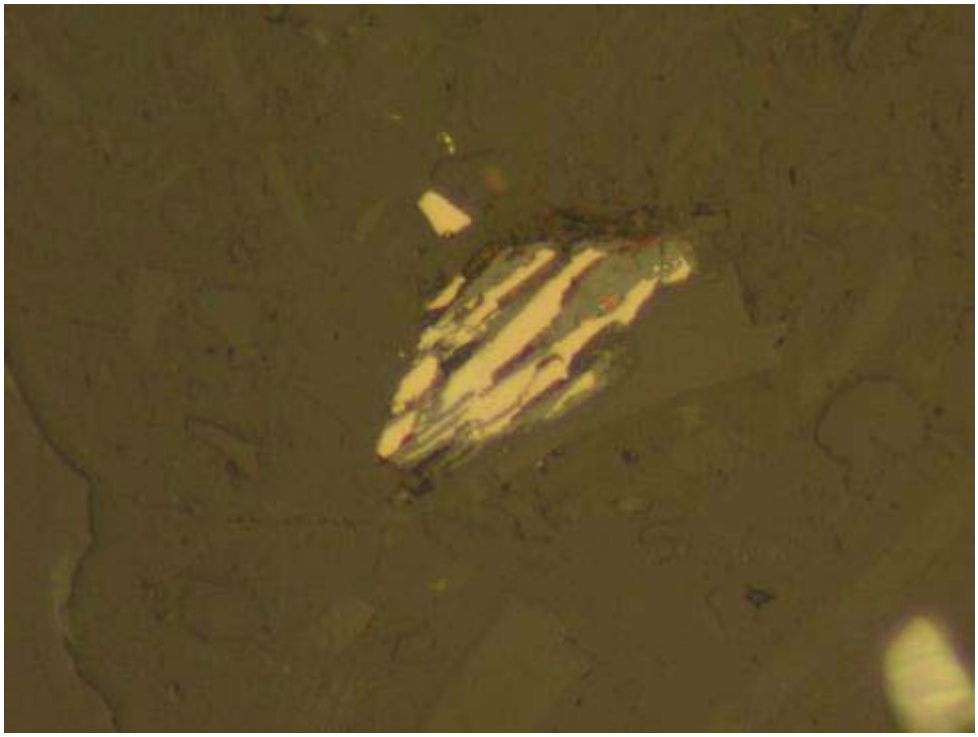


E

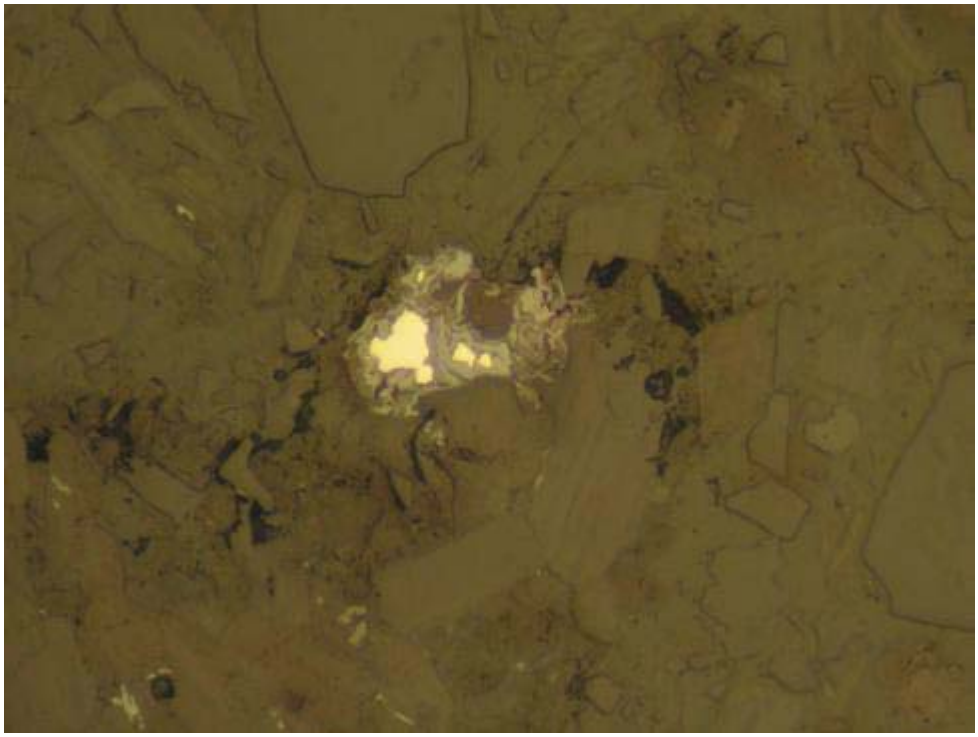


F

DG07-331C 52.92-62.30: E) Quartz vein fragment with chlorite alteration, Fe-oxide/oxyhydroxide replacement of sulphides, rimming of fragment and orange-brown stain. PPL, FOV = ~ 2.8 mm. F) Anhedral pyrite aggregate without grain boundary alteration. RL, FOV = ~ 0.35 mm.



G



H

DG07-331C 52.92-62.30: G) Pyrrhotite grain partly replaced by red-brown Fe-oxide/oxyhydroxide aggregate. RL, FOV = ~ 0.15 mm. H) Pyrite aggregate rimmed and partly replaced by red-brown Fe-oxide/oxyhydroxide aggregate. RL, FOV = ~ 0.3 mm.

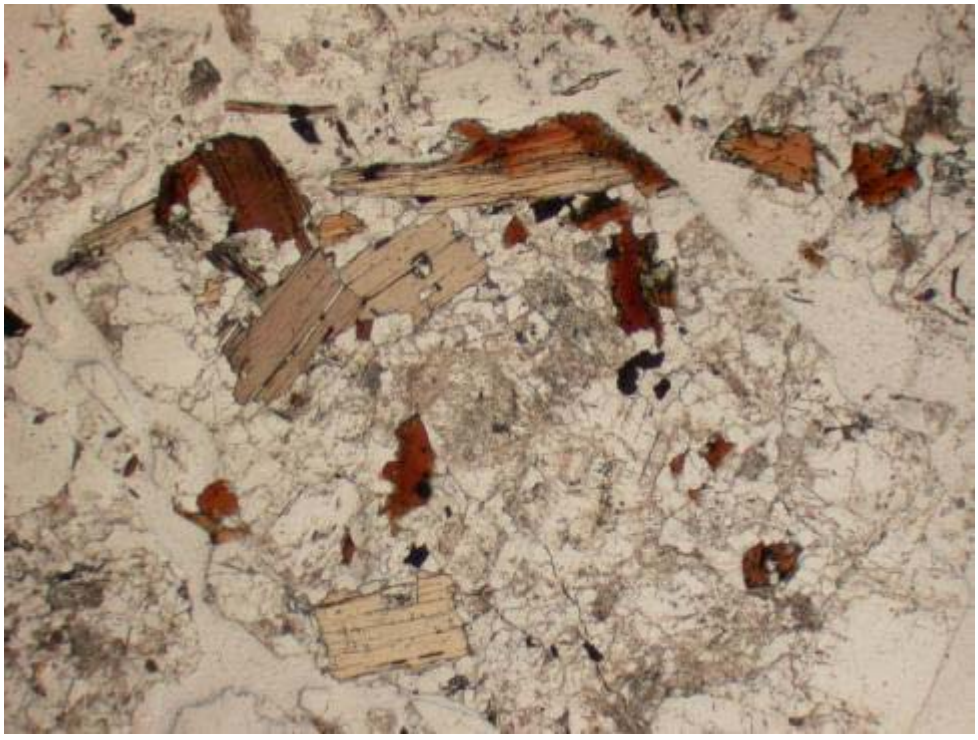
SGS-CEMI Project #: 0789 Strata Gold Corp
Sample ID: DG07-331C 99.97-109.12 Offcut #: AN-5A

Chip and Offcut Mount Description:
Fine to coarse angular chips (less than 15 mm size). Chips comprise light gray and very light gray fine to medium-grained intrusive rock. Minor fine-grained, disseminated brass-coloured sulphide minerals. Strong reaction of chips to cold dilute HCl. No reaction of chips to magnet. Reaction of intrusive rock fragments to etching with HF and staining with sodium cobaltinitrite (some yellow stain).

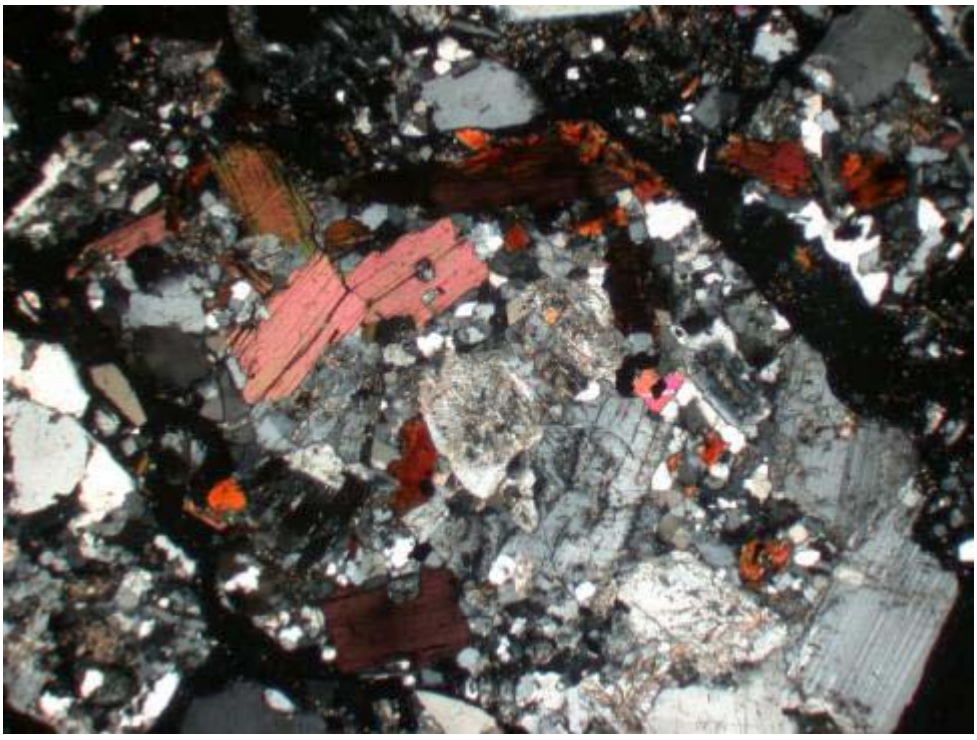
Polished Thin Section Description:
Fine to coarse chips representing selectively carbonate (sericite) altered seriate inequigranular biotite granodiorite as well as liberated quartz, carbonate and biotite grains. The seriate inequigranular rock is fine to medium-grained (maximum 1.5 mm size grains) and comprises dominantly fine to medium-grained plagioclase, fine to medium-grained quartz and fine-grained orthoclase with lesser tan-red brown platy biotite (~10%). Plagioclase is partly replaced by patchy carbonate and less commonly muscovite (sericite) aggregate. Muscovite (sericite) comprises approximately 1% of the section. Platy muscovite occurs in trace amounts. Biotite within granodiorite fragments and liberated biotite plates together comprise ~15% of the section. Biotite is rarely partly replaced by chlorite, patchy rutile or pyrrhotite. Traces of apatite occur within granodiorite rock fragments. Chlorite occurs in minor amounts, approximately 2% as replacement of biotite.

Total carbonate comprises approximately 5% of the section dominantly as colourless carbonate with traces of brown carbonate. Colourless carbonate occurs as 1) fine to very fine-grained anhedral patchy aggregates replacing rock fragments 2) fine-grained veinlets and infill to rock fragments and 3) very fine-grained aggregates that occur with sericite as replacement of plagioclase within porphyritic rock fragments and 4) fine-grained liberated fragments. Colourless carbonate aggregate is commonly partly replaced by very fine-grained brown carbonate aggregate or red-brown Fe-oxide/oxyhydroxide aggregate. Rarely carbonate is partly replaced by very fine-grained euhedral brown rutile grains.

Sulphide occurs in minor amounts, approximately 2%, dominantly as pyrrhotite and pyrite with traces of arsenopyrite, marcasite and chalcopyrite. Pyrrhotite, approximately 1%, occurs as fine to very fine-grained (< 0.1 mm) anhedral grains and aggregates within granodiorite rock chips, as liberated grains and as replacement of biotite. Locally pyrrhotite encloses euhedral pyrite grains or is associated with pyrite. Rarely pyrrhotite occurs intergrown with chalcopyrite. Pyrrhotite grain boundaries are irregular but generally unaltered. Very rarely grains of pyrrhotite were observed with rims partly replaced by traces of red Fe-oxide/oxyhydroxide. Minor pyrite, approximately 1%, occurs disseminated as fine to very fine-grained (< 0.4 mm), euhedral grains and aggregates within rock chips and as liberated grains. Pyrite grains are locally pitted and pyrite is locally associated with traces of very fine-grained marcasite aggregate; marcasite also occurs as lamellar-textured crystals. Pyrite grain boundaries are unaltered. Traces of arsenopyrite occur as fine to very fine-grained (< 0.4 mm) liberated grains. Arsenopyrite rims are generally clean without alteration. Aggregates of red-brown Fe-oxide/oxyhydroxide, possibly replacement of carbonate, occur adjacent to pyrite-marcasite-arsenopyrite aggregate in a few samples.



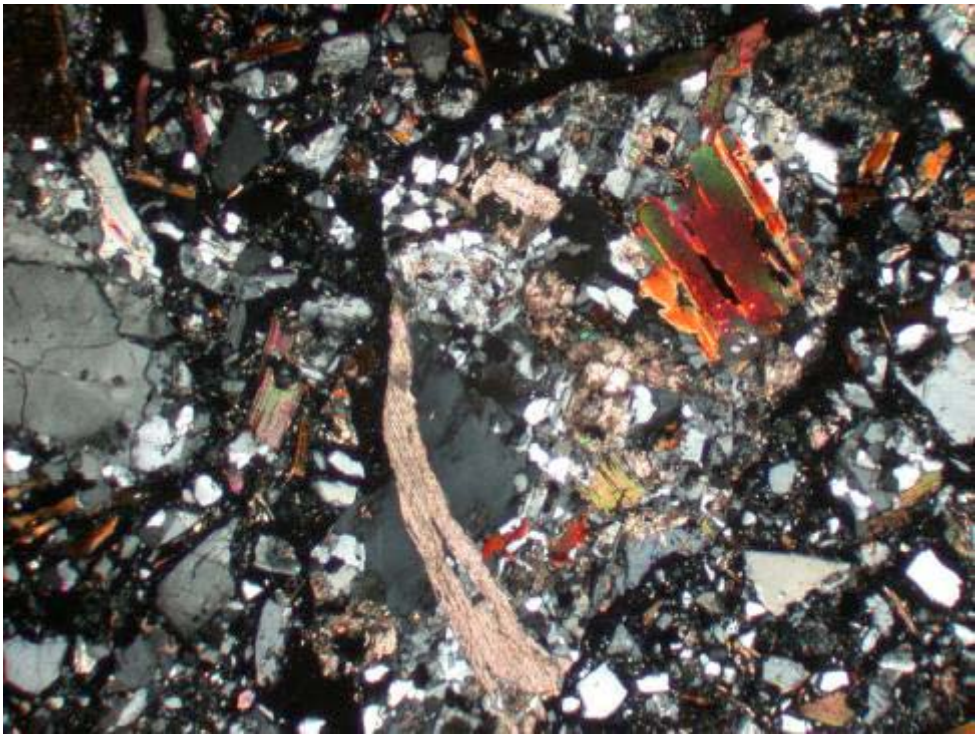
A



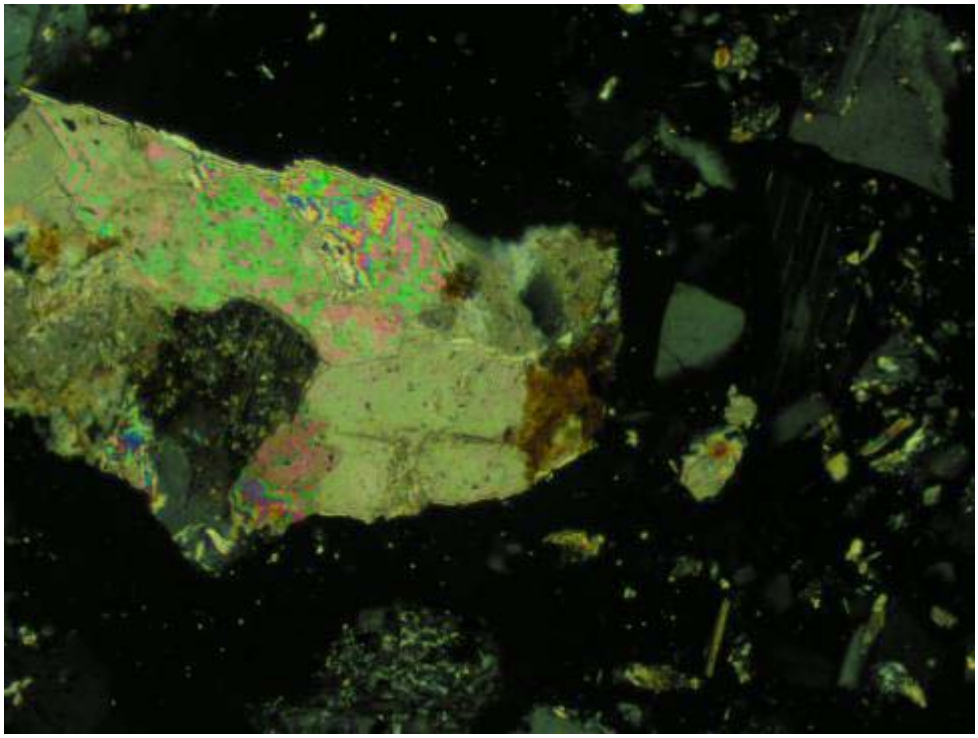
B

DG07-331C 99.97-109.12: Representative chips of seriate inequigranular biotite granodiorite. A) PPL, B) XPL, FOV =~ 4.5 mm.

.

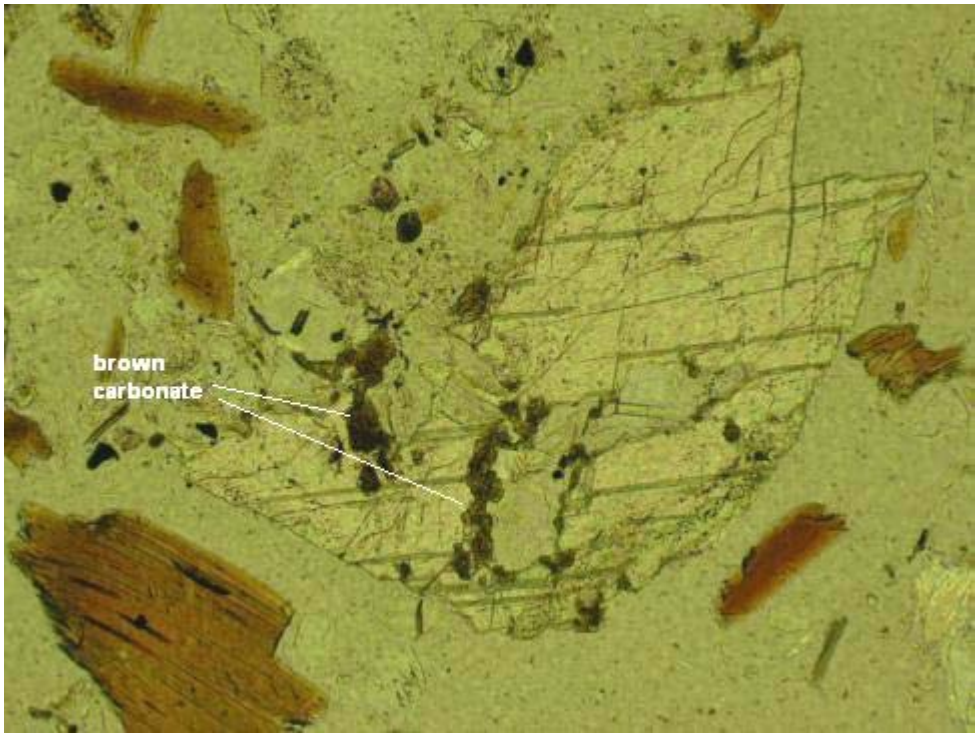


C



D

DG07-331C 99.97-109.12: C) Representative chips of granodiorite cut by carbonate veinlets and with carbonate replacement of plagioclase. XPL, FOV =~ 4.5 mm. D) Colourless carbonate fragment partly replaced by red-brown Fe-oxide/oxyhydroxide aggregate. XPL, FOV =~ 0.7 mm.

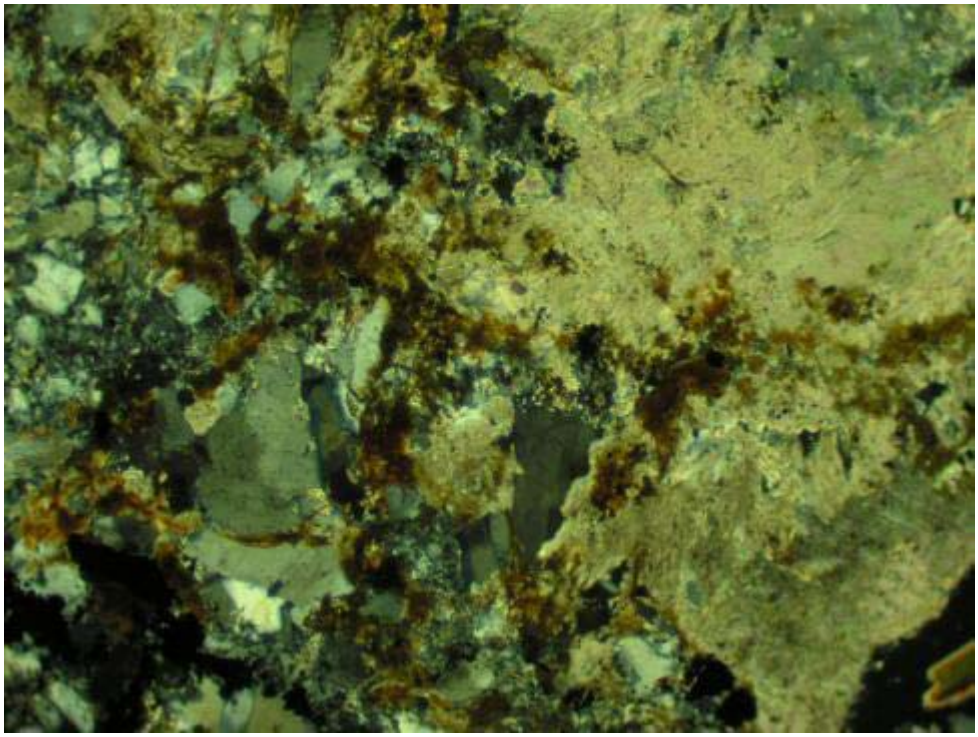


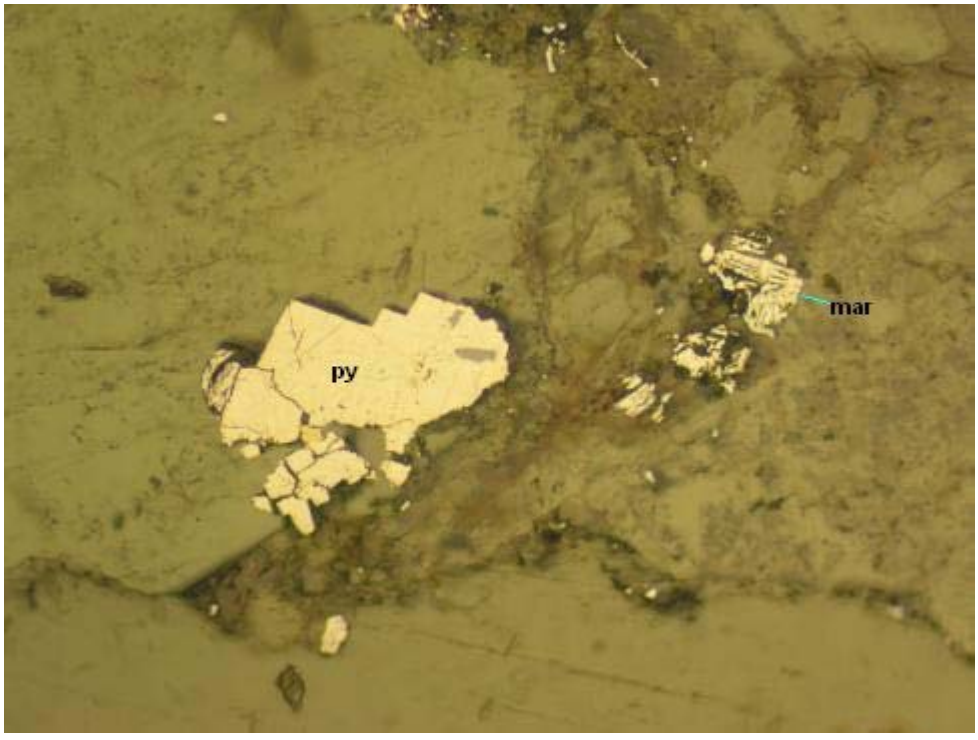
E



F

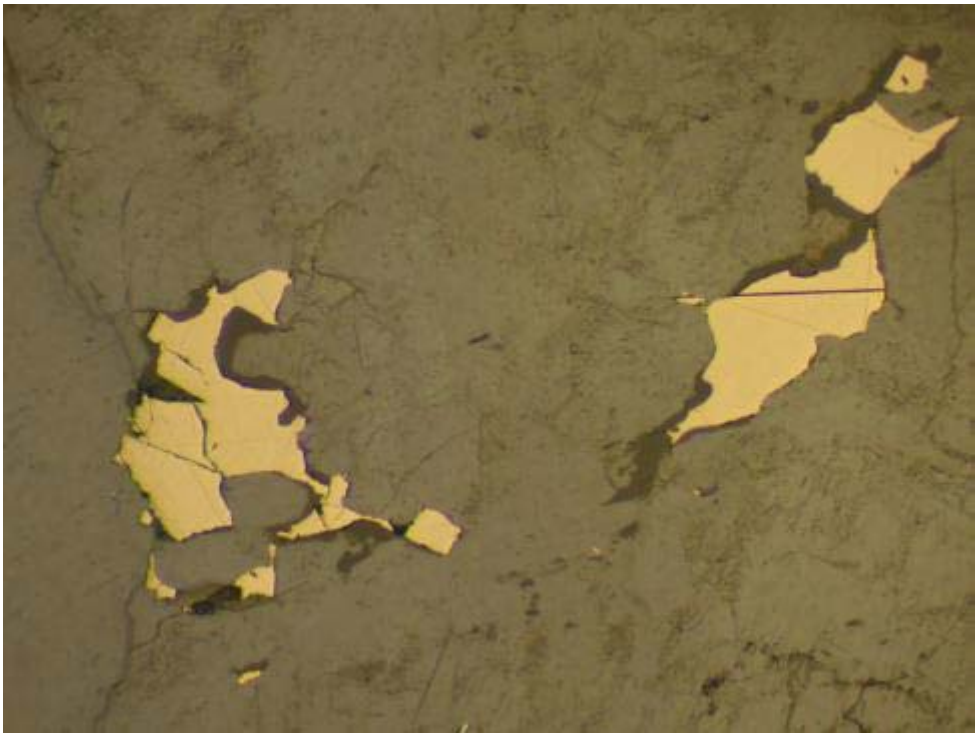
DG07-331C 99.97-109.12: E) Colourless carbonate partly replaced by brown carbonate aggregate. PPL, FOV =~ 1.3 mm. F) Colourless carbonate partly replaced by brown carbonate aggregate (centre). XPL, FOV =~ 0.7 mm.


G

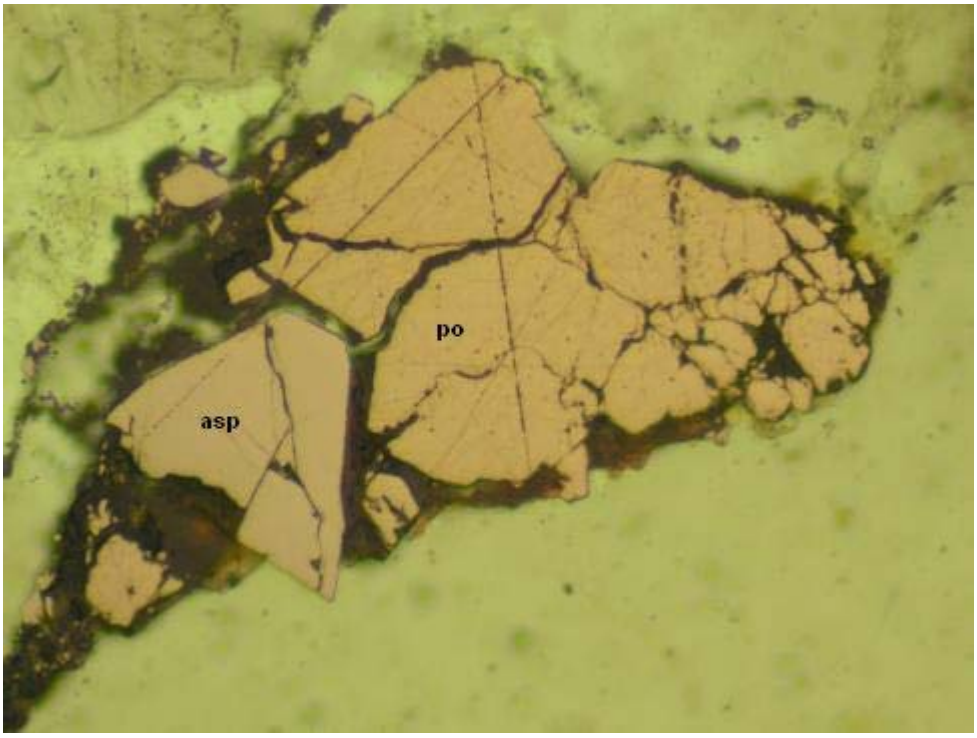


H

DG07-331C 99.97-109.12: G) Patchy colourless carbonate alteration of granodiorite partly replaced by red-brown Fe-oxide/oxyhydroxide aggregate. XPL, FOV =~ 1.3 mm. H) Pyrite and marcasite aggregates within same fragment as photo G. Note marcasite associated with patches of red-brown Fe-oxide/oxyhydroxide. RL +PPL, FOV =~ 0.7 mm.

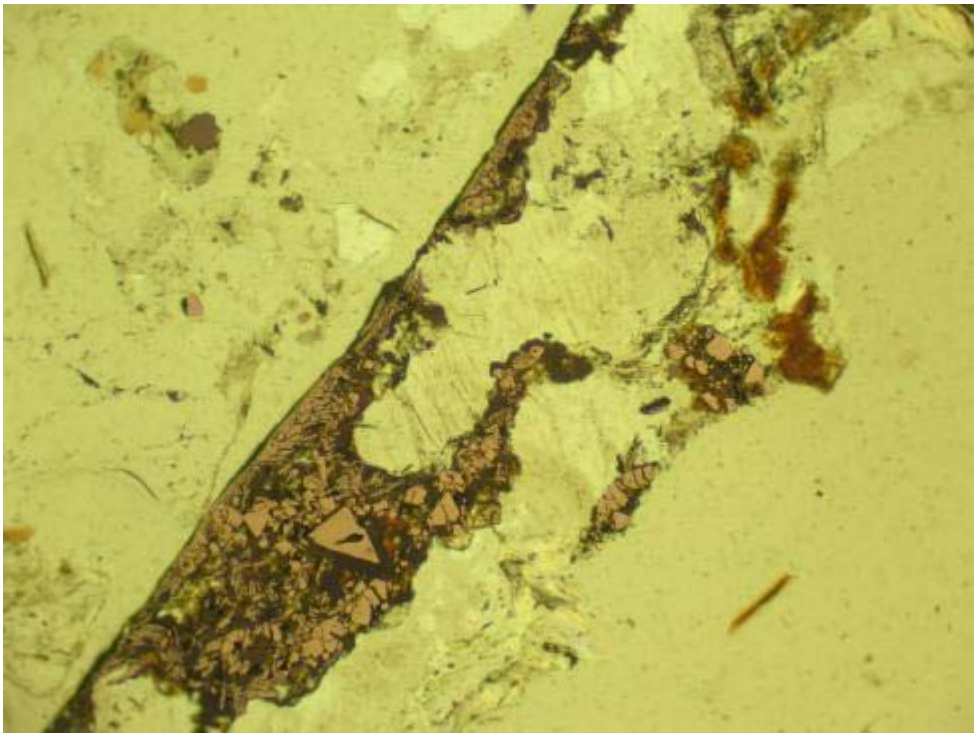


I



J

DG07-331C 99.97-109.12: G) Pyrrhotite aggregates without alteration rims. RL, FOV =~ 1.0 mm. H) Pyrrhotite and arsenopyrite aggregate with red-brown Fe-oxide/oxyhydroxide rims. RL +PPL, FOV =~ 0.3 mm.


K

DG07-331C 99.97-109.12: K) Marcasite and pyrite aggregate within carbonate-altered fragment. Note red-brown Fe-oxide/oxyhydroxide alteration adjacent to sulphides and within carbonate. RL +PPL, FOV =~ 0.7 mm.

SGS-CEMI Project #: 0789 Strata Gold Corp
Sample ID: DG07-335C 103.02-113.69 Offcut #: AN-6A

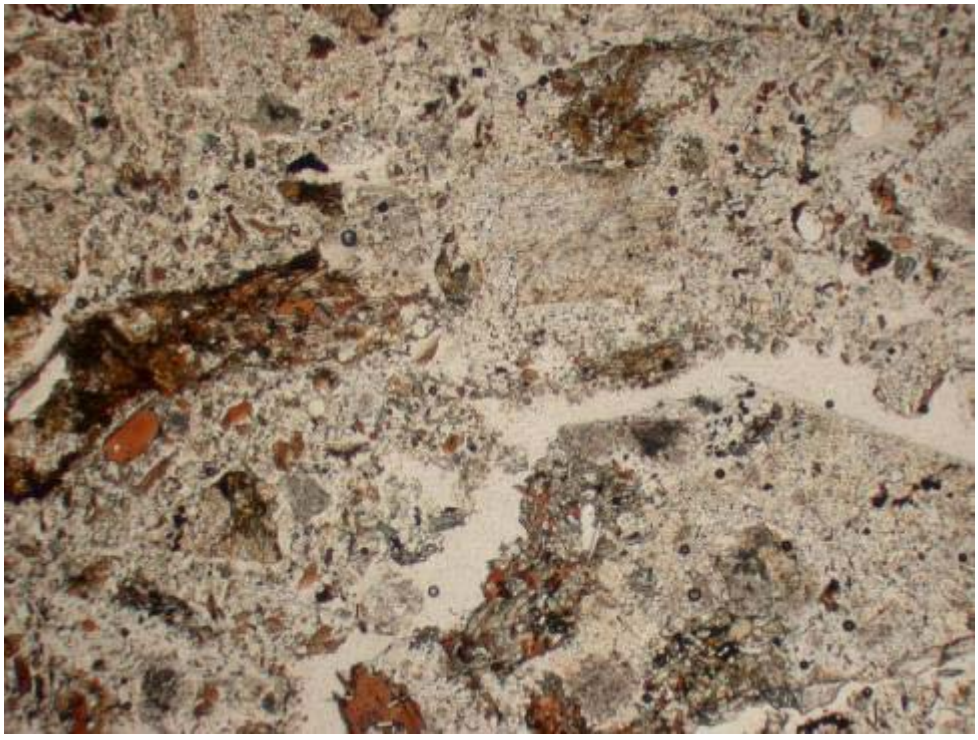
Chip and Offcut Mount Description:
Fine to coarse angular chips (less than 13 mm size) and light olive grey powder. Chips comprise dark gray porphyritic rock and orange-brown biotite hornfels. Strong reaction of chips to cold dilute HCl. No reaction of chips to magnet. Groundmass of porphyritic rock, particularly rims to plagioclase phenocrysts, have reacted to etching with HF and staining with sodium cobaltinitrite (yellow stain).

Polished Thin Section Description:
Fine to coarse chips representing a recrystallized quartz-actinolite-biotite-plagioclase porphyritic rock as well as liberated quartz, carbonate and biotite fragments. The porphyritic rock groundmass is fine to very fine-grained (typically < 100 μm size grains) and comprises recrystallized quartz or quartz with minor K-feldspar. Fine to very fine-grained recrystallized biotite occurs distributed in the matrix and as irregular patches. The porphyritic rock phenocryst assemblage comprises fine-grained brown platy biotite (~5%), fine to medium-grained zoned plagioclase (~15%), locally fine-grained actinolite (~3%) and traces of fine-grained resorbed quartz. Plagioclase phenocrysts are selectively replaced by traces of muscovite (sericite) and patchy carbonate aggregate. In some fragments biotite phenocrysts are recrystallized to very fine-grained brown biotite aggregate. Total biotite (biotite phenocrysts, liberated platy biotite and recrystallized biotite aggregate) comprises approximately 15% of the section. Biotite is partly replaced by chlorite, patchy carbonate, red-brown Fe-oxide/oxyhydroxide, rutile and pyrrhotite. Actinolite is partly replaced by red-brown Fe-oxide/oxyhydroxide, and pyrrhotite. Chlorite comprises approximately 1% of the section.

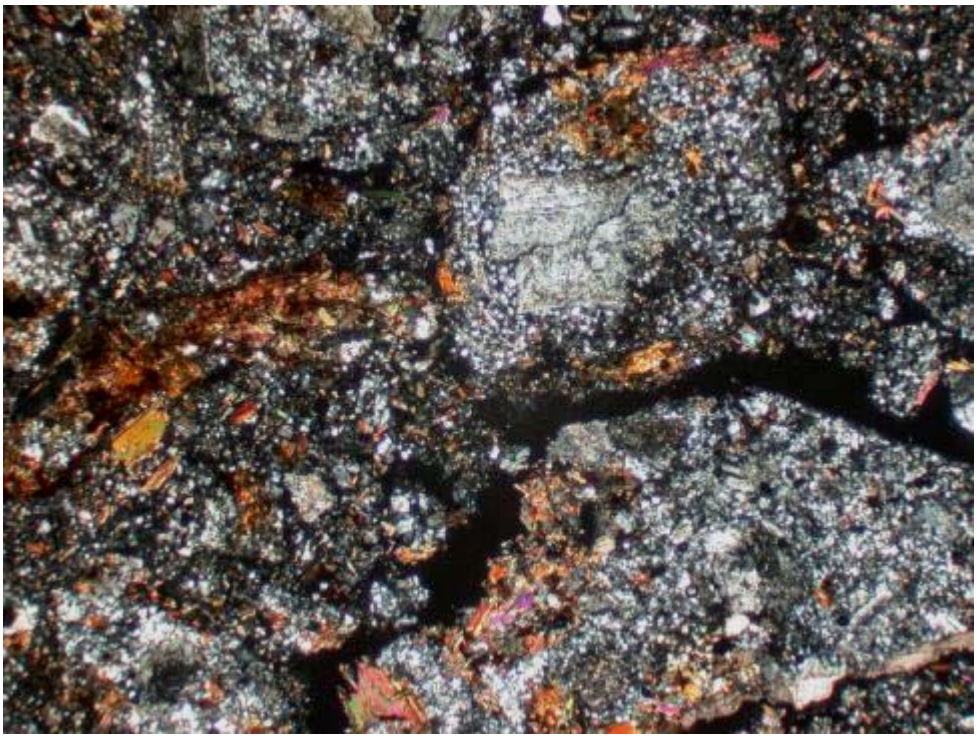
Carbonate occurs in trace amounts as very fine-grained aggregates replacing plagioclase phenocrysts, as fracture infill, as replacement of biotite phenocrysts or as fine-grained liberated fragments. Some liberated carbonate chips and carbonate replacement aggregates are partly replaced by very fine-grained red-brown Fe-oxide/oxyhydroxide aggregates.

Sulphide occurs in minor amounts, approximately 1%, mainly as pyrrhotite with traces of marcasite and chalcopyrite. Pyrrhotite, approximately 1%, occurs as fine-grained (< 0.2 mm) anhedral grains and aggregates within porphyritic rock fragments as liberated grains and as replacement of biotite. Rarely pyrrhotite occurs intergrown with fine-grained chalcopyrite (< 0.05 mm size grains). Pyrrhotite grain boundaries are irregular and for the most part unaltered. Rare pyrrhotite grains are rimmed and partly replaced by red-brown Fe-oxide/oxyhydroxide aggregate. Pyrrhotite grains are commonly altered to a marcasite pseudomorph. Very fine-grained marcasite rims are typically preserved.

An unknown red-brown Fe-oxyhydroxide occurs in minor amounts (~2%) as very fine-grained fracture-controlled aggregates, as replacement of biotite and rims some fragments in the section.

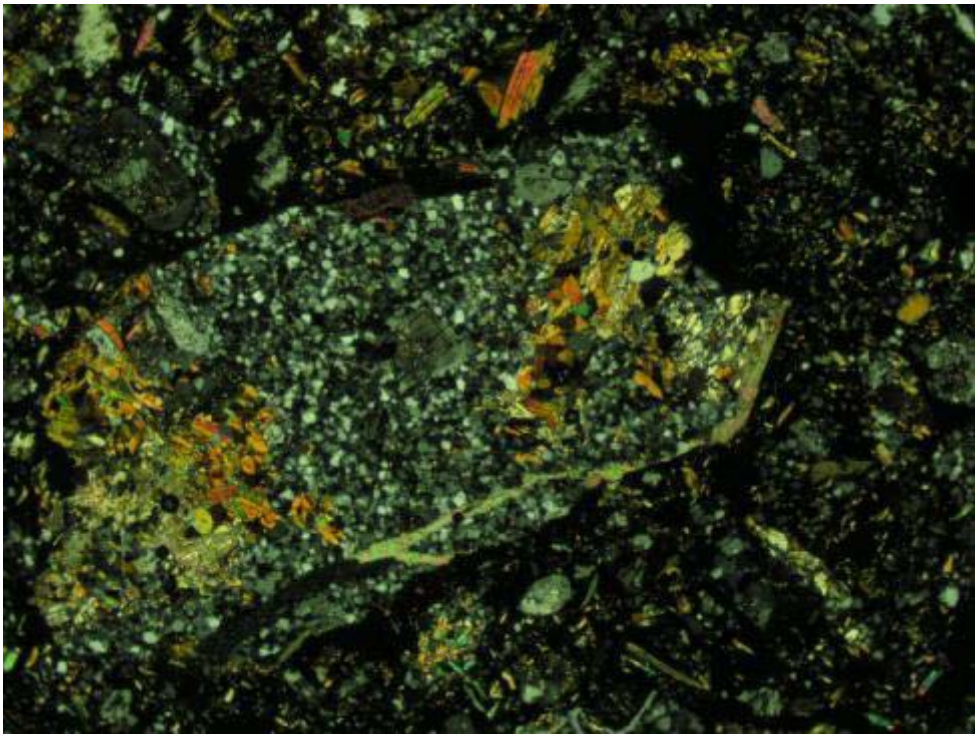


A

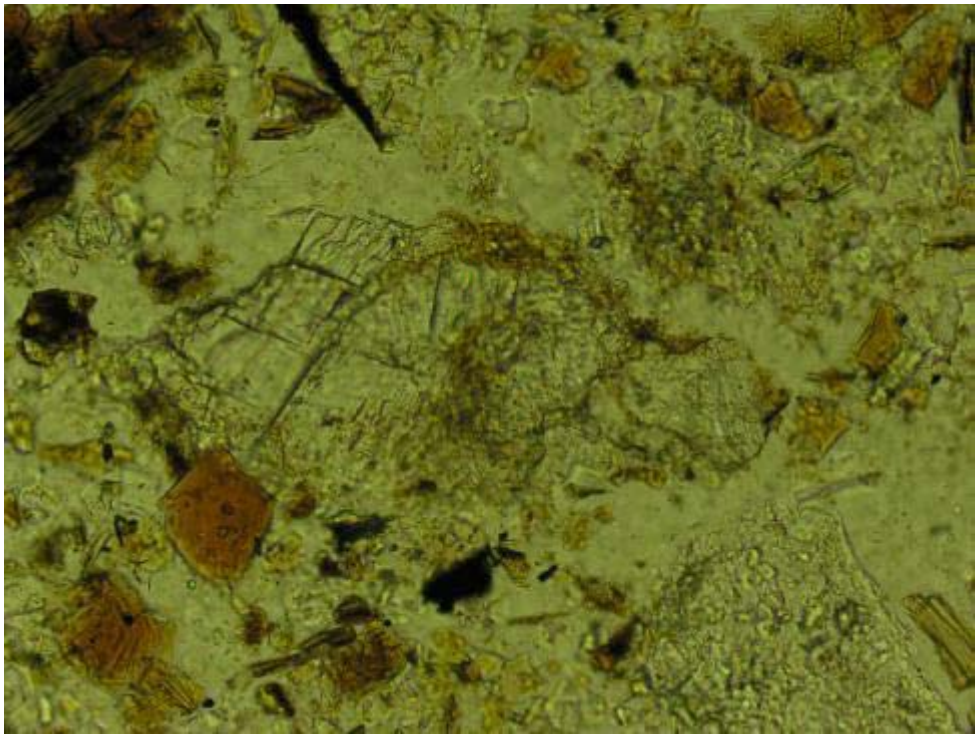


B

DG07-335C 103.02-113.69: Representative chips of recrystallized quartz-actinolite-biotite-plagioclase porphyritic rock as well as liberated quartz, carbonate and biotite fragments. A) PPL, B) XPL, FOV =~ 4.5 mm.

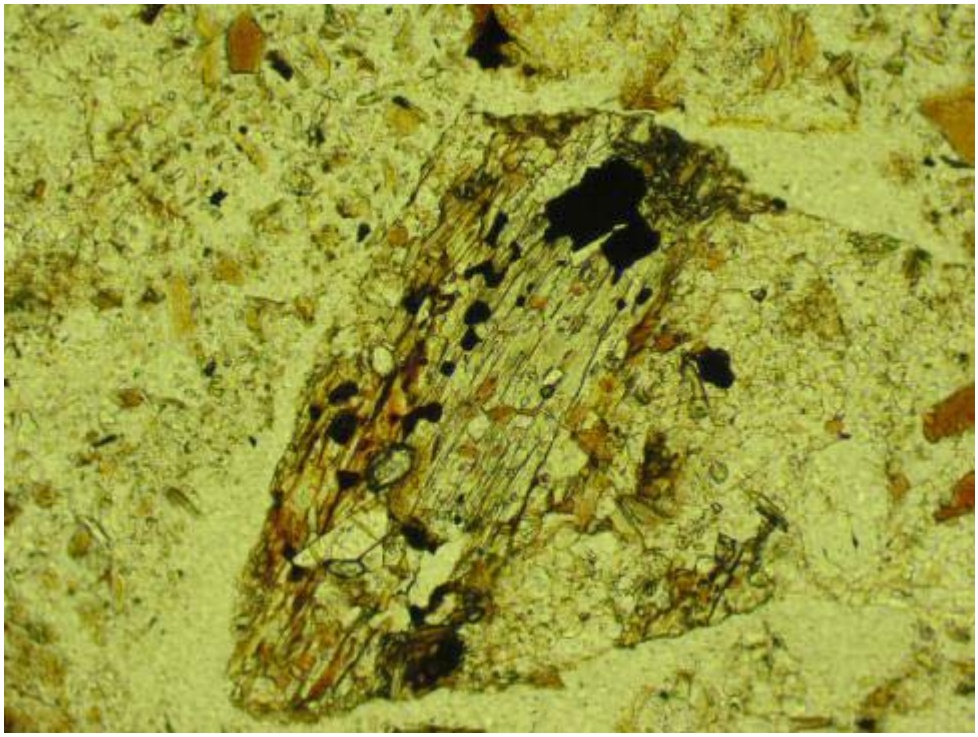


C

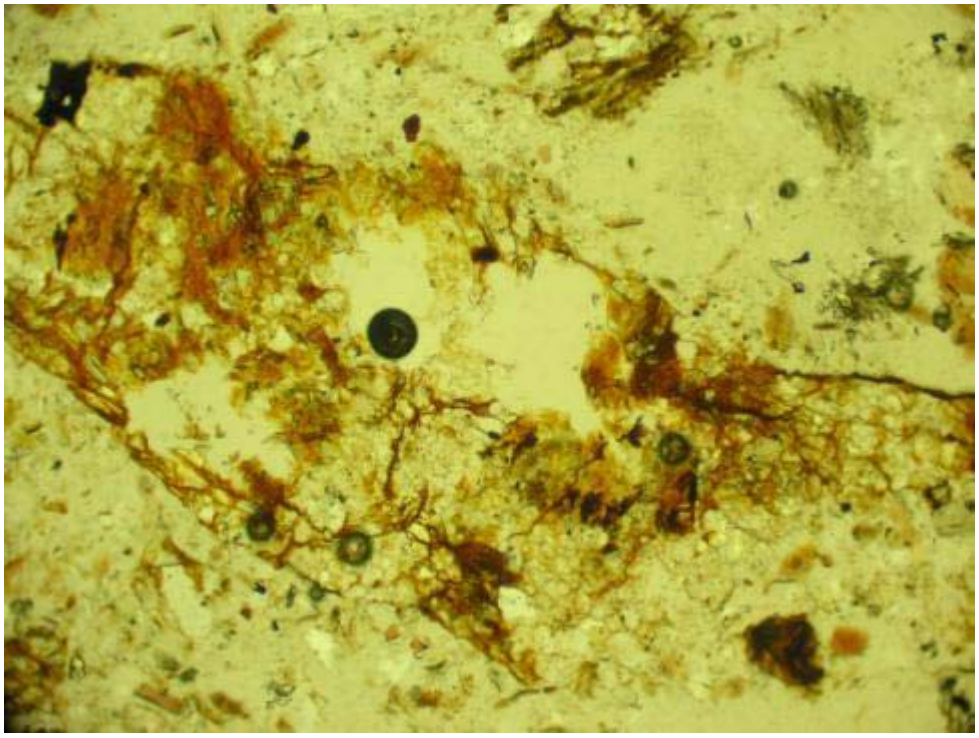


D

DG07-335C 103.02-113.69: C) Porphyritic rock fragment with patchy carbonate alteration (left) cut by carbonate-filled fractures (centre). XPL, FOV =~ 2.8 mm. D) Colourless carbonate aggregate with rims partly replaced by red-brown Fe-oxide/oxyhydroxide aggregate. PPL, FOV =~ 0.7 mm.

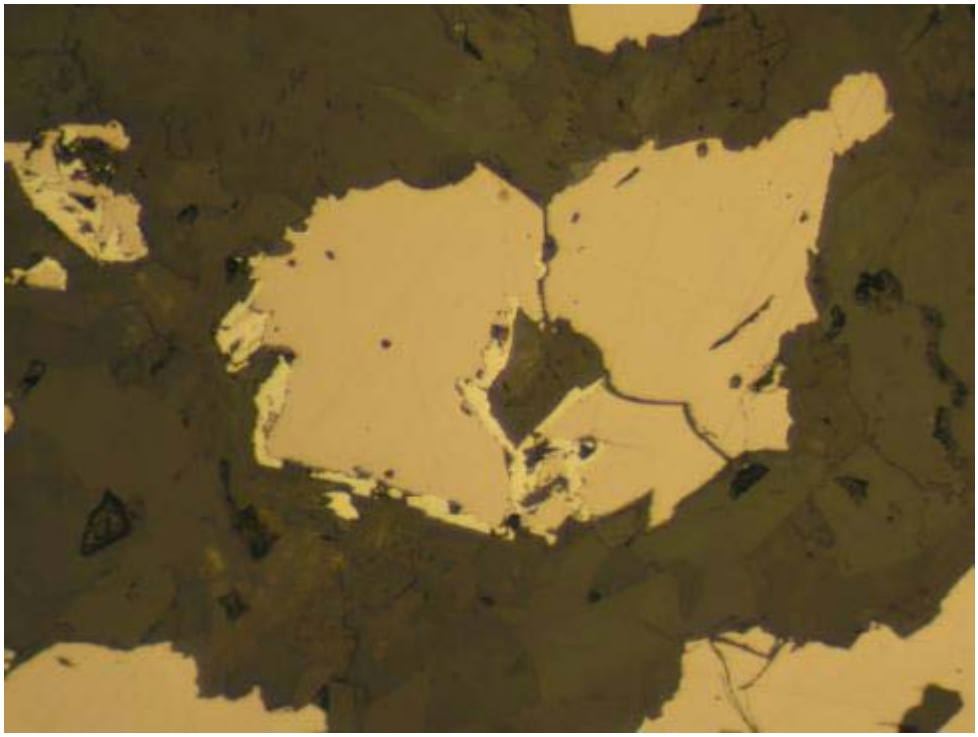


E

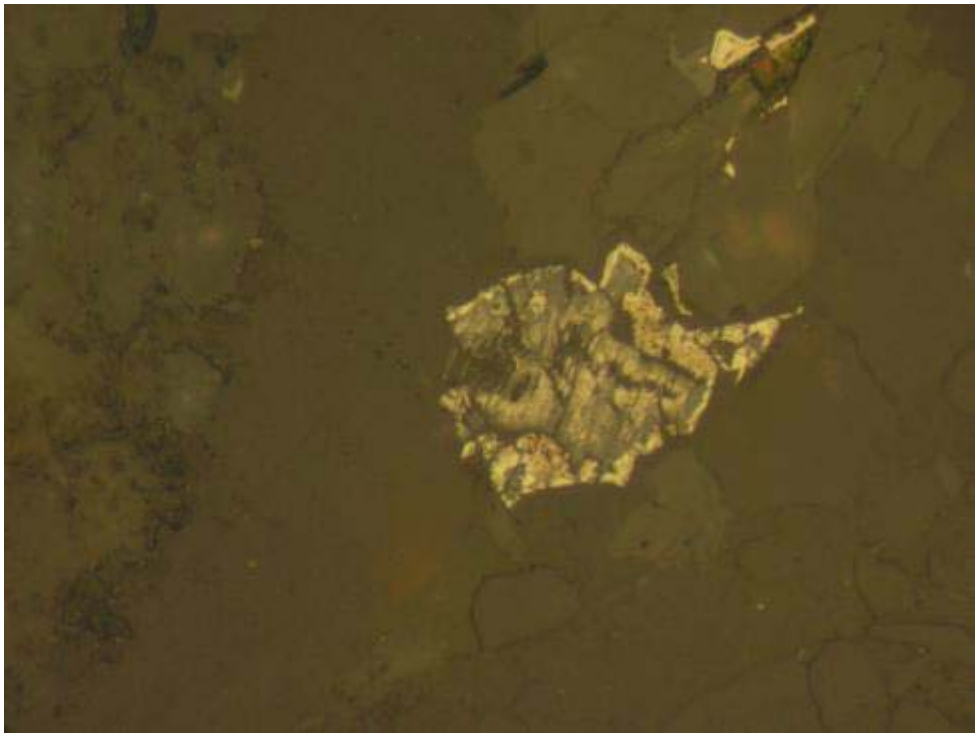


F

DG07-335C 103.02-113.69: E) Actinolite phenocryst partly replaced by opaques and Fe-oxide/oxyhydroxide (along cleavage traces). PPL, FOV =~ 1.3 mm. F) Fe-oxide/oxyhydroxide occurs as fracture infill and as rims to fragment. PPL, FOV =~ 1.3 mm.

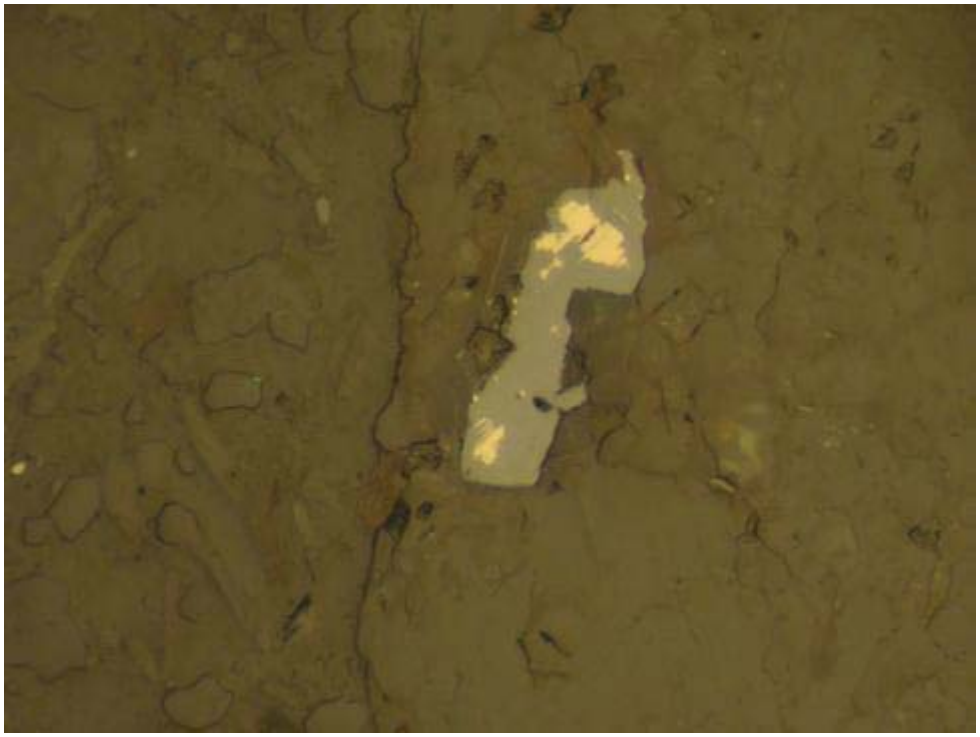


G



H

DG07-335C 103.02-113.69: G) Pyrrhotite (pinkish-brown) aggregates partly rimmed by marcasite (yellowish white). RL, FOV =~ 2.8 mm. H) Marcasite pseudomorph after pyrrhotite. RL, FOV =~ 0.15 mm.



DG07-335C 103.02-113.69: I) Pyrrhotite rimmed and mostly replaced by Fe-oxide/oxyhydroxide aggregate. RL, FOV =~ 0.35 mm.

Statement of qualifications: Kathryn P.E. Dunne

I, Kathryn P.E. Dunne, of the City of Salmon Arm, province of British Columbia, do hereby certify that:

1. I am an independent consulting geologist, with a business office at 4610 Lakeshore Road NE, Salmon Arm, B.C., Canada. My business mailing address is: Bag 9000, # 207, 190B Trans Can Hwy NE, Salmon Arm, BC, V1E 1S3.

2. I am a graduate in geology, with a BSc in geology from The University of British Columbia (1985).

3. I received my Masters degree in geology from The University of British Columbia, Vancouver, B.C. in 1988.

4. I am a registered member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia (No. 18674).

5. I am a fellow of the Geological Association of Canada and a member of the Society of Economic Geologists.

6. I have practiced my profession as a geologist for approximately 20 years: 4 years as geologist with the British Columbia Geological Survey Branch, 3 years as research coordinator at the Mineral Deposit Research Unit housed within the Department of Earth and Ocean Sciences at the University of British Columbia, and 13 years as an independent consultant.

7. The petrographic data of this report was collected by me in July 2009.

……..……

Kathryn P.E. Dunne, M.Sc., P.Geo.
Consulting Geologist
July 17, 2009

Petrography Report

CHARACTERIZATION OF ROCK CHIPS, DUBLIN GULCH PROPERTY, YUKON

May 14, 2010

SGS-CEMI Project #:
0789 StrataGold

Prepared for:
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Background

Four crushed rock samples from the Dublin Gulch property, Yukon, Canada are characterized in this report (SGS CEMI Project No. 0789). Optical reporting was requested by Rik Vos of SGS CEMI Inc. The samples were submitted for polished thin section production at Vancouver Petrographics Ltd. by Rik Vos of SGS CEMI Inc. and then forwarded to Kathryn Dunne for optical work. The purpose of the optical study was to characterize the mineralogy with particular emphasis on sulphide minerals and any carbonate minerals present.

The optical observations are summarized below and petrographic descriptions of polished thin sections with representative photomicrographs follow the summary. All percentages in the descriptions are approximate based on visual estimation.

Please note the following grain size conventions are used in the report: very fine-grained (< 50 µm), fine-grained (> 50 µm and less than 1 mm), medium-grained (> 1mm and < 5 mm) and coarse-grained (> 5mm).

Please note that in this report the abbreviation Fe-ox is used for unknown amorphous, very fine-grained poorly crystalline and/or crystalline ferric hydroxides, oxyhydroxides and/or oxyhydroxy-sulphate minerals. These substances may contain other crystalline solids including sulfates, oxides, hydroxides and silicates. The composition of these materials is best identified using a scanning electron microscope (SEM).

Summary

Sample List
DG05-308C 12.19 -18.00
DG05-308C 125.00 -128.00
DG06-311C 130.45 -140.45
DG07-327C 24.69 -33.83

The crushed rock samples include intrusive rock types (seriate inequigranular biotite granitoid and biotite-plagioclase± quartz± K-feldspar porphyry), biotite-quartz±andalusite hornfels, a variety of veins including quartz±K-feldspar and quartz-carbonate and liberated mineral grains (including quartz, feldspar, carbonate, biotite and sulphides).

Alteration is dominated by minor to major muscovite (sericite) replacement of plagioclase and biotite. Carbonate occurs as patchy replacement of plagioclase ± biotite in all but one sample. Trace to minor amounts of chlorite occur partly replacing biotite in all but one sample. Minor clay occurs partly replacing plagioclase and biotite in one sample.

Carbonate occurs in trace to minor amounts (~3%) dominantly as colourless varieties with traces of brown carbonate noted in two sections. Carbonate can occur as very fine-grained anhedral grains and patchy aggregates replacing feldspar or biotite, as fine aggregate within vein fragments, as fracture infill and as fine-grained liberated fragments.

Sulphides occur in trace to minor amounts (~1%) dominantly as pyrrhotite, pyrite and marcasite with some of the following in some sections: chalcopyrite, arsenopyrite, rare bismuthinite and associated unknown phases. Pyrrhotite occurs as fine to very fine-grained anhedral grains and aggregates within rock chips and as liberated grains. Pyrrhotite is partly replaced by red-brown Fe-ox aggregate in some samples. Pyrite occurs as fine to very fine-grained, eu-anhedral grains and aggregates within rock chips and as liberated grains. Irregular patches of very fine-grained marcasite occur locally with pyrite aggregate. Pyrite is rimmed and partly replaced by red-brown Fe-ox aggregate all but one sample. Traces of arsenopyrite occur disseminated in rock chips and as liberated fine grains. Arsenopyrite rims are without alteration.

Unknown red-brown Fe-ox aggregates occurs in trace amounts in two samples and major amounts (~7%) in samples DG05-308C 125.00 -128.00 and DG07-327C 24.69 -33.83. The red-brown Fe-ox occurs in some of the following forms in the sections: as replacement of carbonate, as replacement of muscovite (sericite)-carbonate alteration of plagioclase, as replacement of biotite, as liberated aggregates, as replacement of pyrite and pyrrhotite, as very fine-grained fracture-controlled aggregates or as fragment rinds. In one section, traces of orange-brown Fe-ox occurs with red-brown Fe-ox as replacement of carbonate and stain on rock fragments.

Tabular summary (SGS-CEMI Project #: 0789 Strata Gold Corp):

Sample #	**Sulphide**	**% ~**	**Carbonate occurrence**	**% ~**	**Fe-Oxides and Oxyhydroxides**	**% ~**	**Some Other > 1%**	**% ~**
DG05-308C 12.19 -18.00	pyrite pyrrhotite marcasite	tr tr r.	fine-grained colourless liberated grain	r.	red-brown Fe-ox ilmenite	tr tr	quartz K-feldspar plagioclase biotite muscovite (sericite) andalusite chlorite	~30 ~30 ~10 15 10 3 1
DG05-308C 125.00 -128.00	pyrite arsenopyrite chalcopyrite pyrrhotite marcasite	tr tr r. r. r.	colourless, fine to very fine-grained, anhedral grains and patchy aggregates, vein fragments; brown, very fine-grained, aggregates	tr	red-brown Fe-ox	7	quartz K-feldspar plagioclase muscovite (sericite) biotite	~45 ~15 ~11 20 1
DG06-311C 130.45 -140.45	pyrrhotite pyrite arsenopyrite chalcopyrite marcasite bismuthinite unknown	1 tr tr tr tr r. r.	very fine-grained, colourless aggregates, fine-grained infill and liberated fragments; brown, very fine-grained	tr	red-brown Fe-ox ilmenite	tr tr	quartz K-feldspar plagioclase biotite muscovite (sericite) chlorite	~35 ~30 ~25 6 1 1
DG07-327C 24.69 -33.83	pyrite marcasite pyrrhotite	tr tr r.	colourless very fine-grained aggregates, fine-grained infill, and liberated grains	3	red-brown Fe-ox orange-brown Fe-ox	7 tr	quartz K-feldspar plagioclase muscovite (sericite) biotite clay	~40 ~30 ~10 5 3 1

tr = trace (< 1%); r. = rare; x = none observed; Fe-ox = Fe-oxide or oxyhydroxide



SGS-CEMI Project #: 0789 StrataGold
Sample ID: DG05-308C 12.19 -18.00 Offcut #: CN-2

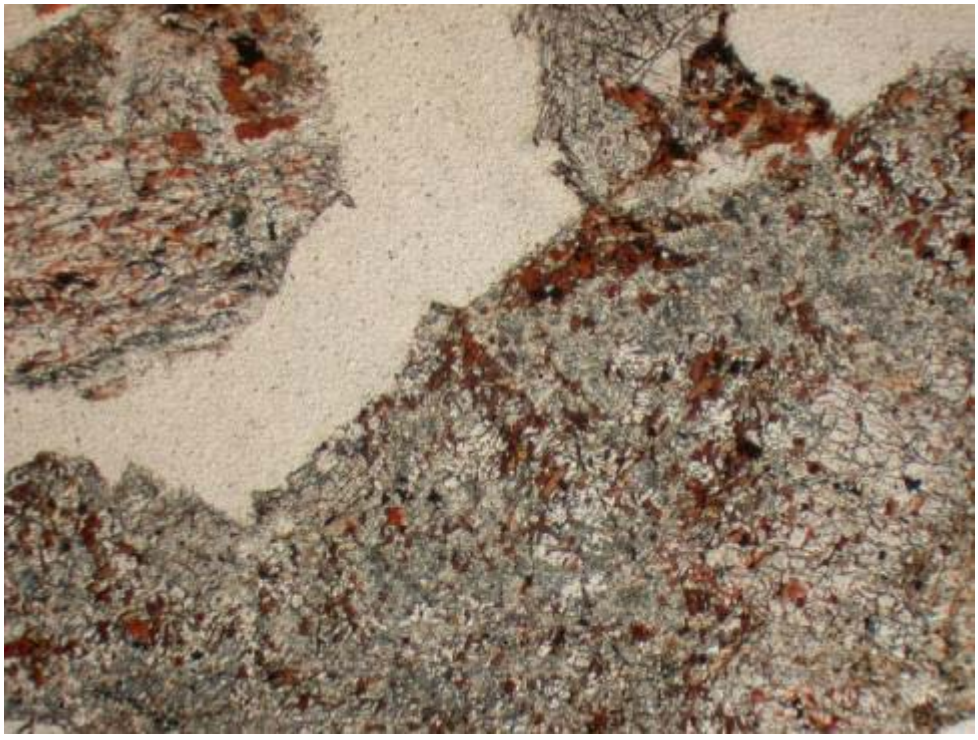
Fine to coarse angular chips (less than 15 mm size) and light olive grey powder. Chips comprise aphanitic brownish-black rock, banded quartz-biotite rock and translucent quartz vein. No reaction of fragments to cold dilute HCl. No reaction of chips to magnet. Reaction of some rock fragments to etching with HF and staining with sodium cobaltinitrite (yellow stain, approximately 30% K-feldspar).

Polished Thin Section Description:
Fine to coarse chips of dominantly muscovite (sericite) altered biotite-quartz±andalusite hornfels, biotite hornfels, banded quartz-feldspar-biotite rock, a variety of quartz±K-feldspar veins and numerous liberated biotite and quartz grains. Biotite-quartz±andalusite hornfels chips comprise dominantly fine to very fine-grained red-brown biotite, very fine-grained quartz, locally, fine-grained ragged andalusite and feldspar. Biotite comprises approximately 15% of the section; andalusite comprises approximately 3% of the section. Minor chlorite, approximately 1%, occurs as replacement of biotite. Muscovite (sericite) occurs in major amounts as replacement of biotite hornfels (approximately 10% of section). Traces of very fine-grained ilmenite occur disseminated in biotite hornfels and banded quartz-biotite rock. Quartz vein fragments typically comprise fine-grained anhedral quartz aggregate; K-feldspar is subordinate. Some K-feldspar occurs as liberated vein fragments. Quartz comprises approximately 30% of the section. Plagioclase is estimated at 10% of the section.

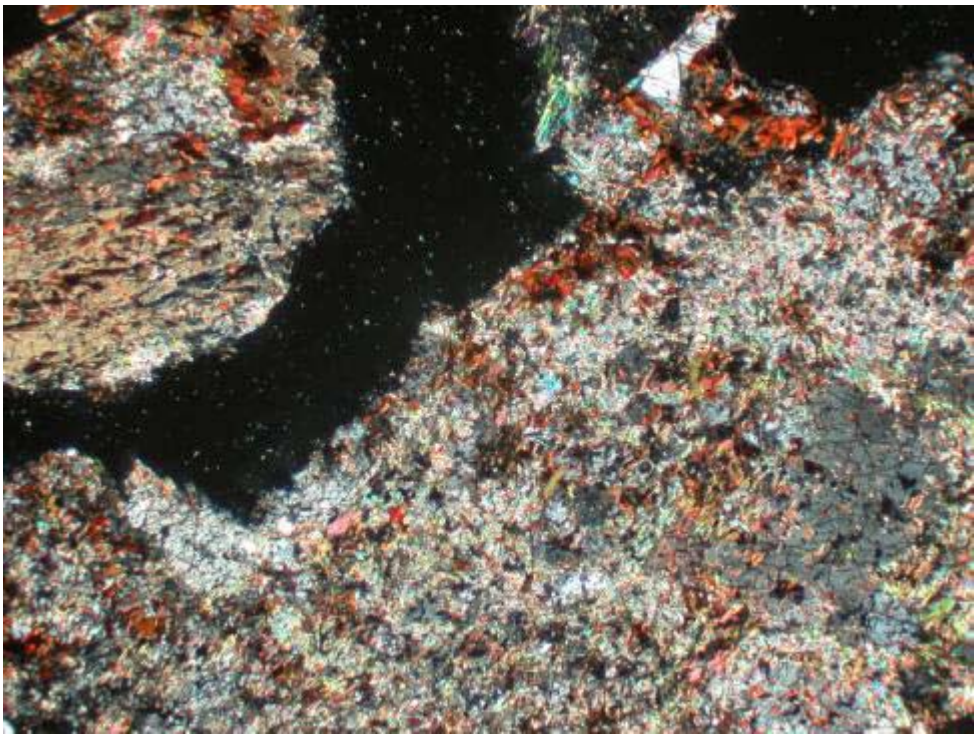
Carbonate occurs rarely. One liberated grain of fine-grained colourless carbonate was observed.

Sulphide occurs in trace amounts as pyrite, marcasite and pyrrhotite. Pyrrhotite occurs as fine-grained (< 0.1 mm) anhedral grains within biotite-quartz±andalusite hornfels and as liberated grains. Pyrrhotite grains are rimmed and partly replaced by red-brown Fe-ox aggregate. Rare marcasite occurs as pitted very fine-grained rounded grains within biotite hornfels chips. Pyrite occurs within biotite aggregate in hornfels chips. Pyrite grains are are rimmed and partly replaced by red-brown Fe-ox aggregates.

Red-brown very fine-grained Fe-oxyhydroxide aggregates occur in trace amounts in the section as replacement of pyrrhotite and pyrite.

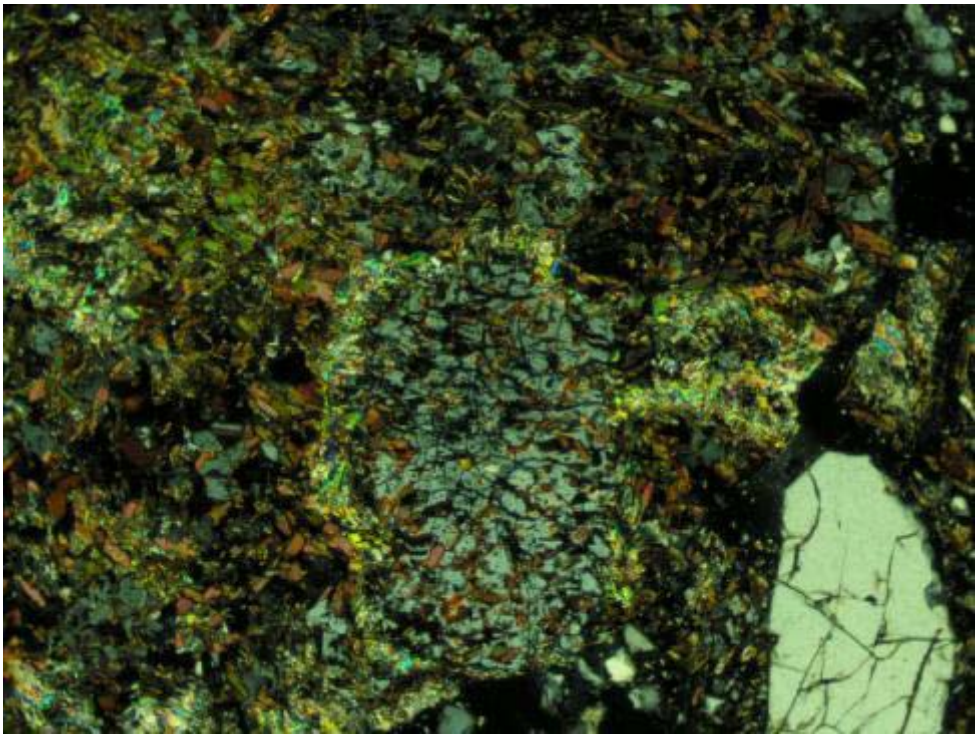


A

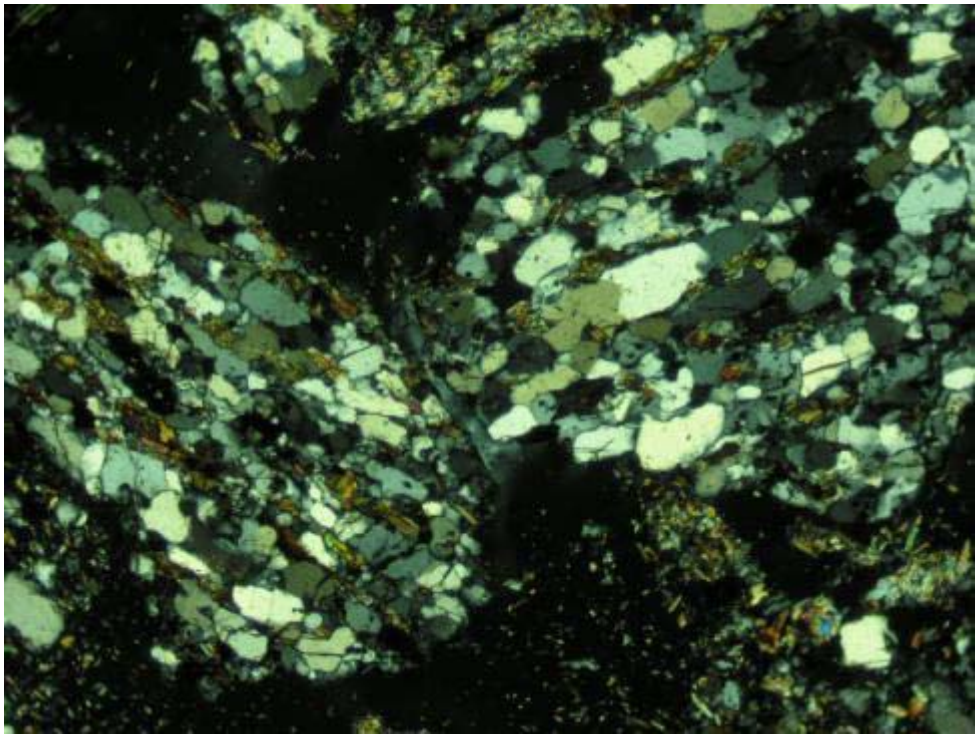


B

DG05-308C 12.19 -18.00: Representative chips of muscovite (sericite) altered biotite-quartz-andalusite hornfels. A) PPL, B) XPL, FOV =~ 4.5 mm.

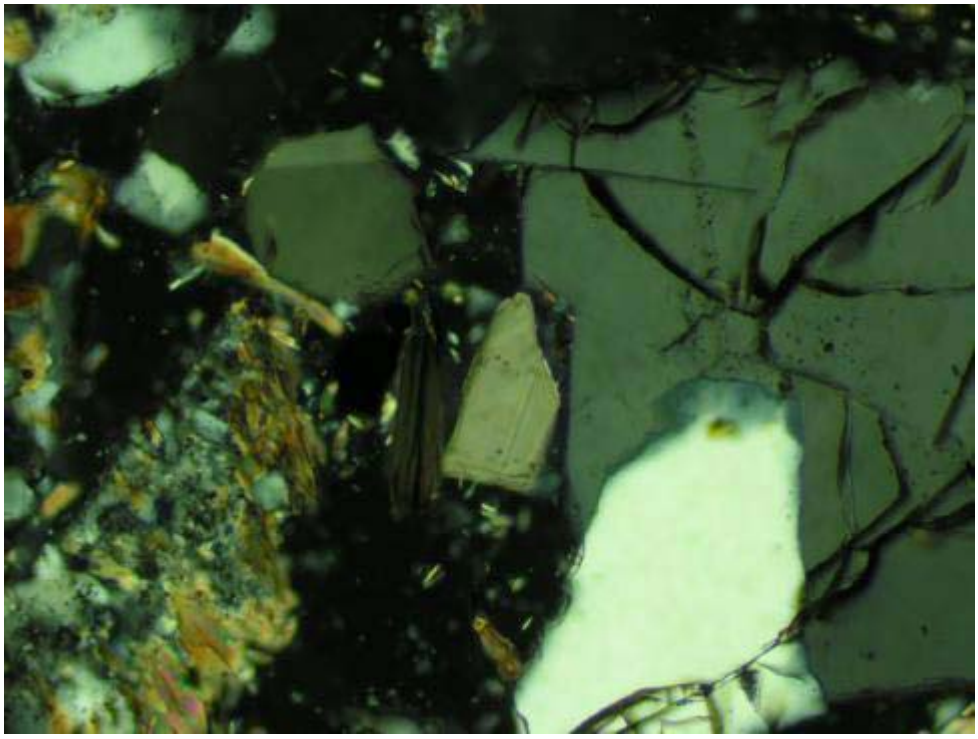


C

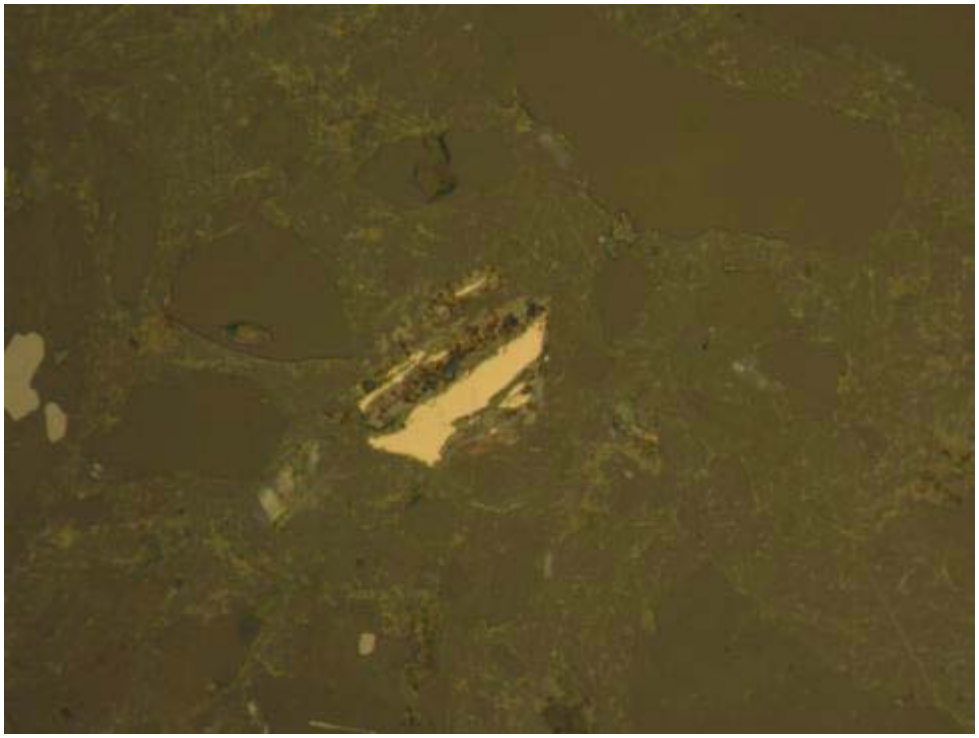


D

DG05-308C 12.19 -18.00: C) Detailed view of muscovite (sericite)-altered biotite-andalusite hornfels. XPL, FOV =~ 2.6 mm. D) Detailed view of banded quartz-biotite chips. XPL, FOV =~ 2.6 mm.

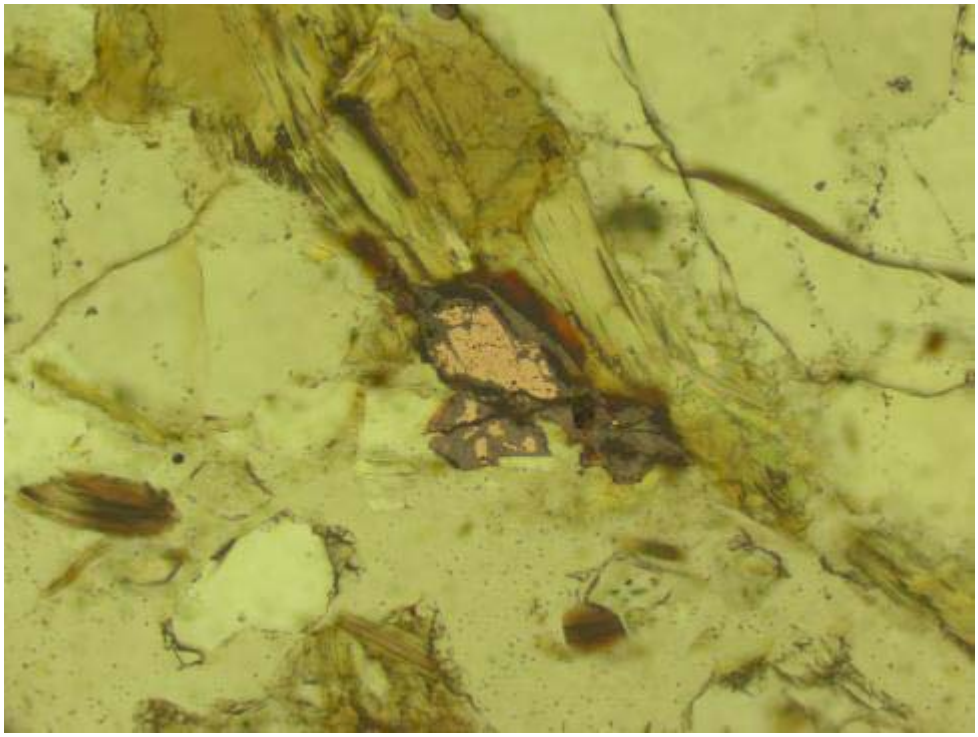


E

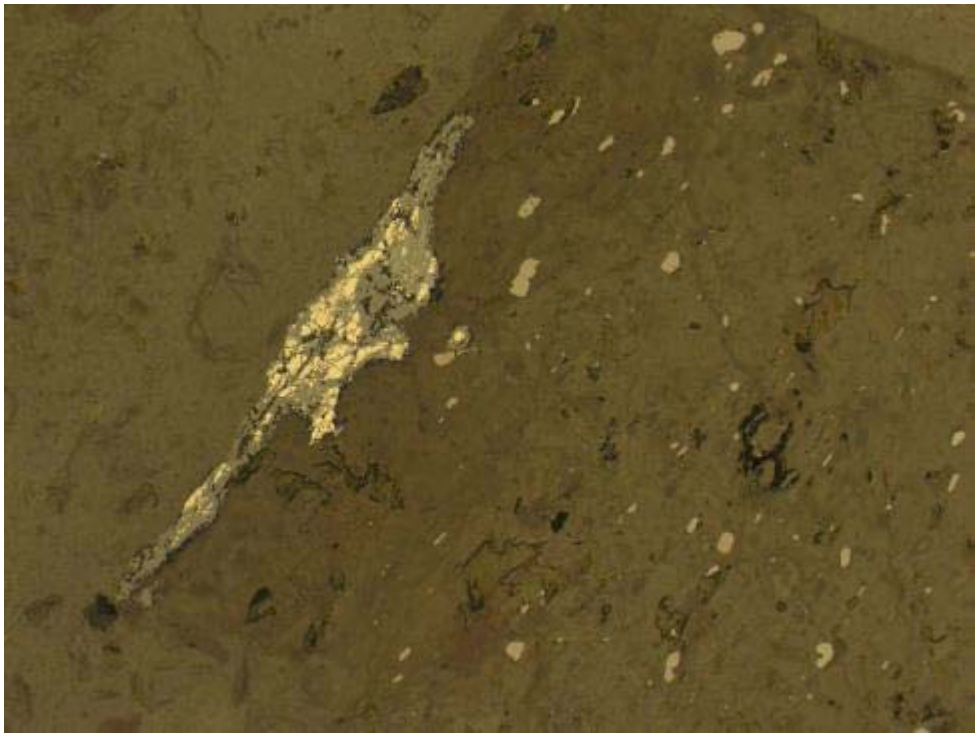


F

DG05-308C 12.19 -18.00: E) Rare liberated colourless carbonate grain (centre). XPL. FOV =~0.7 mm. F) Liberated pyrrhotite grain partly replaced by Fe-ox aggregate. RL. FOV =~ 0.3 mm.



G



H

DG05-308C 12.19 -18.00: G) Pyrite aggregate within biotite. Pyrite rimmed and partly replaced by Fe-ox aggregate. PPL+RL. FOV =~ 1.3 mm. H) Pyrite aggregate within biotite hornfels. Pyrite partly replaced by Fe-ox. Note disseminated ilmenite grains. RL. FOV =~ 1.3 mm.

SGS-CEMI Project #: 0789 StrataGold
Sample ID: DG05-308C 125.00 -128.00 Offcut #: CN-1

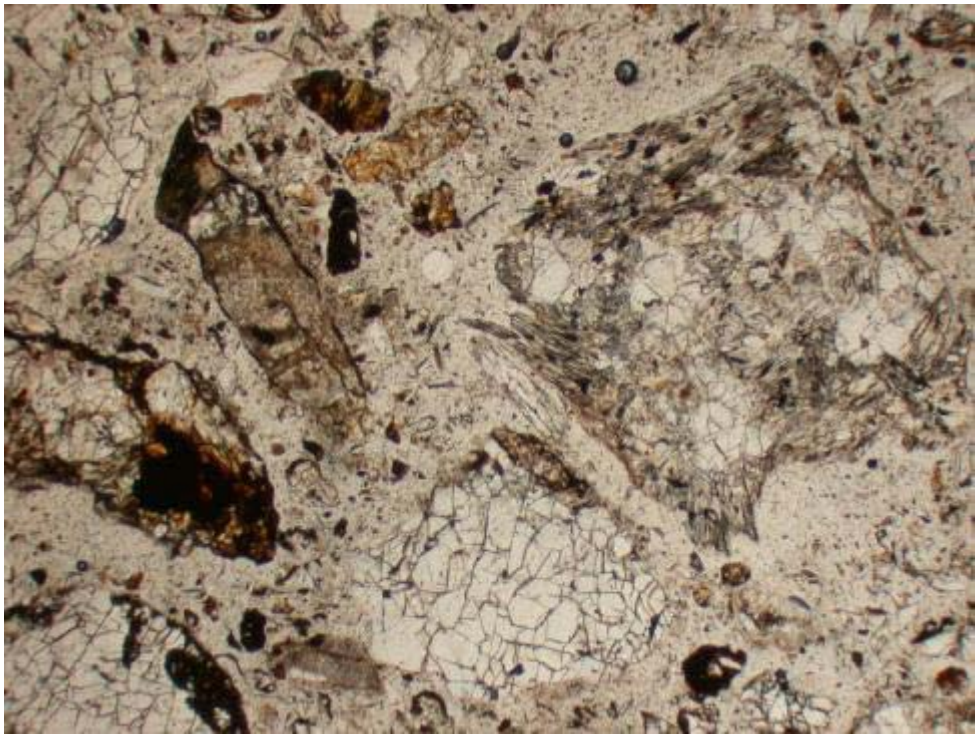
Chip and Offcut Mount Description:
Fine to coarse angular chips (less than 12 mm size) and dark yellowish-orange powder. Chips comprise fine to medium-grained orange-brown stained granitoid rock and traces of white quartz vein fragments with yellowish-orange stain. No reaction of chips to cold dilute HCl. No reaction of chips to magnet. Reaction of fragments to etching with HF and staining with sodium cobaltinitrite (yellow stain, approximately 15% K-feldspar).

Polished Thin Section Description:
Fine to coarse chips representing seriate inequigranular biotite granitoid, pervasively muscovite (sericite)-altered and oxidized granitoid, quartz ±K-feldspar ± (carbonate) vein fragments as well as liberated quartz and biotite grains, traces of sulphide and carbonate grains and abundant liberated very fine-grained muscovite (sericite) and Fe-ox aggregates. The seriate inequigranular rock is fine to medium-grained (maximum 2 mm size grains) and comprises plagioclase, quartz and orthoclase with lesser tan-red brown platy biotite. Plagioclase is mostly replaced by a felted aggregate of muscovite (sericite) and patchy red-brown Fe-ox aggregate. Relict plagioclase comprises about 10% of the section. Quartz comprises about 45% of the section. Muscovite (sericite) comprises approximately 20% of the section. Platy muscovite occurs in trace amounts. Commonly, patchy red-brown Fe-ox aggregate replaces and stains muscovite (sericite) aggregate. Biotite within granitoid fragments and liberated biotite plates together comprise ~1% of the section. Biotite is rarely partly replaced by traces of chlorite or Fe-ox aggregate. Traces of carbonate occur rarely within muscovite (sericite)-altered granitoid chips and within quartz-K-feldspar vein fragments. Commonly, chips have fine rinds of red-brown Fe-ox aggregate and fractured grains are infilled by Fe-ox aggregate.

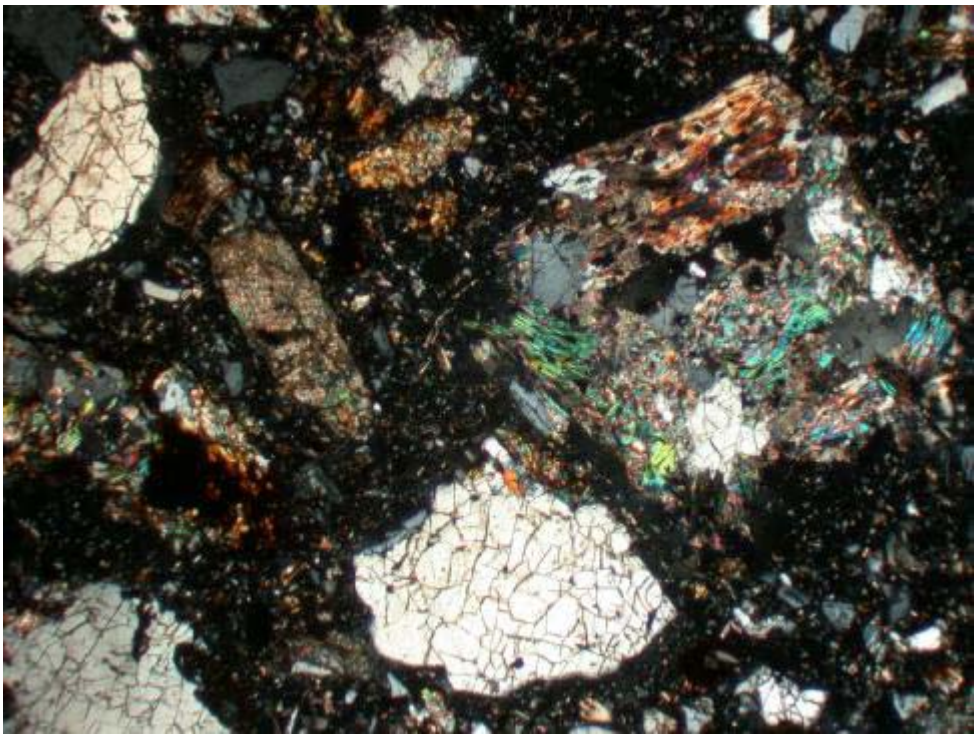
Total carbonate occurs in trace amounts in the section. Carbonate is dominantly colourless and occurs as 1) fine to very fine-grained anhedral grains and patchy aggregates that occur with muscovite (sericite) as replacement of plagioclase within granitoid rock fragments, 2) fine-grained aggregates within quartz vein fragments and 3) fine-grained liberated fragments. Colourless carbonate is locally partly replaced by red-brown Fe-ox aggregates. Rare very fine-grained brown carbonate occurs as liberated aggregates and is typically mostly replaced by red-brown Fe-ox aggregate.

Sulphide occurs in trace amounts as pyrite, arsenopyrite and rare chalcopyrite, pyrrhotite and marcasite. Pyrite occurs disseminated as fine to very fine-grained (< 0.3 mm), subhedral grains and aggregates within rock chips, associated with muscovite (sericite) alteration and as liberated grains. Pyrite grains are rimmed and typically mostly replaced by red-brown Fe-ox aggregate. Traces of arsenopyrite occur as fine to very fine-grained (< 0.15 mm) liberated grains. Arsenopyrite grains are fractured, rims are irregular but without alteration. Rarely very fine-grained pyrrhotite and chalcopyrite occur as liberated grains and within biotite. Pyrrhotite is partly rimmed by Fe-ox aggregates. Marcasite occurs as very fine-grained aggregates replacing pyrrhotite within a granitoid chip.

Red-brown Fe-ox occurs in major amounts (approximately 7%) in the section. Fe-ox occurs as liberated fine grains and very fine-grained aggregates, as rims and replacement of pyrite and pyrrhotite, as replacement of carbonate aggregate and partly replacing muscovite (sericite)-carbonate alteration in weathered granitoid fragments.

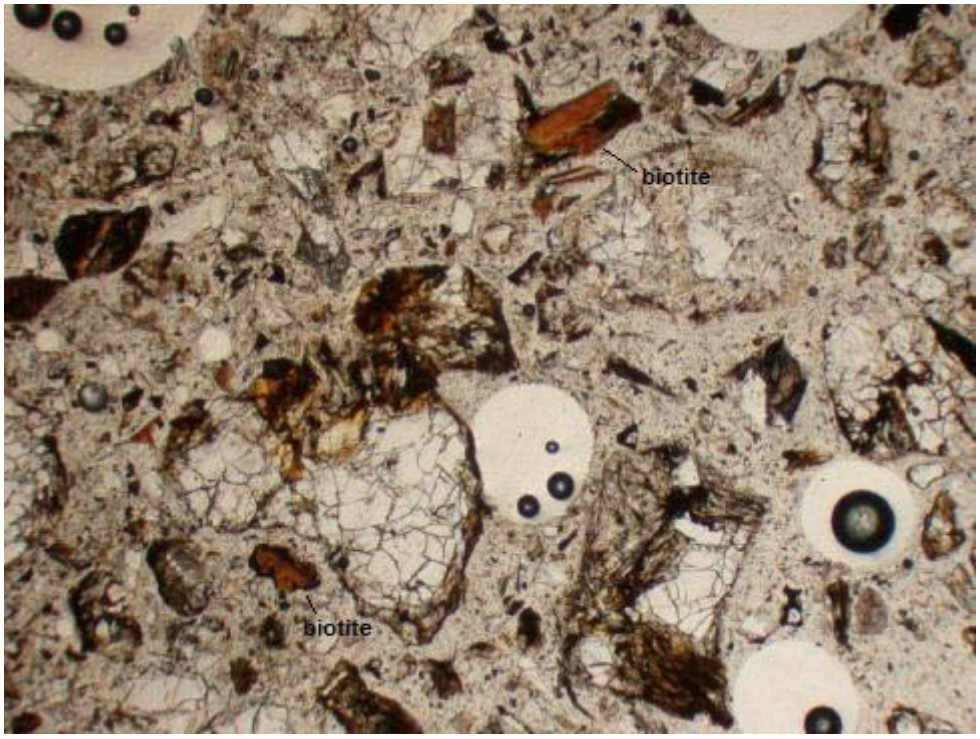


A

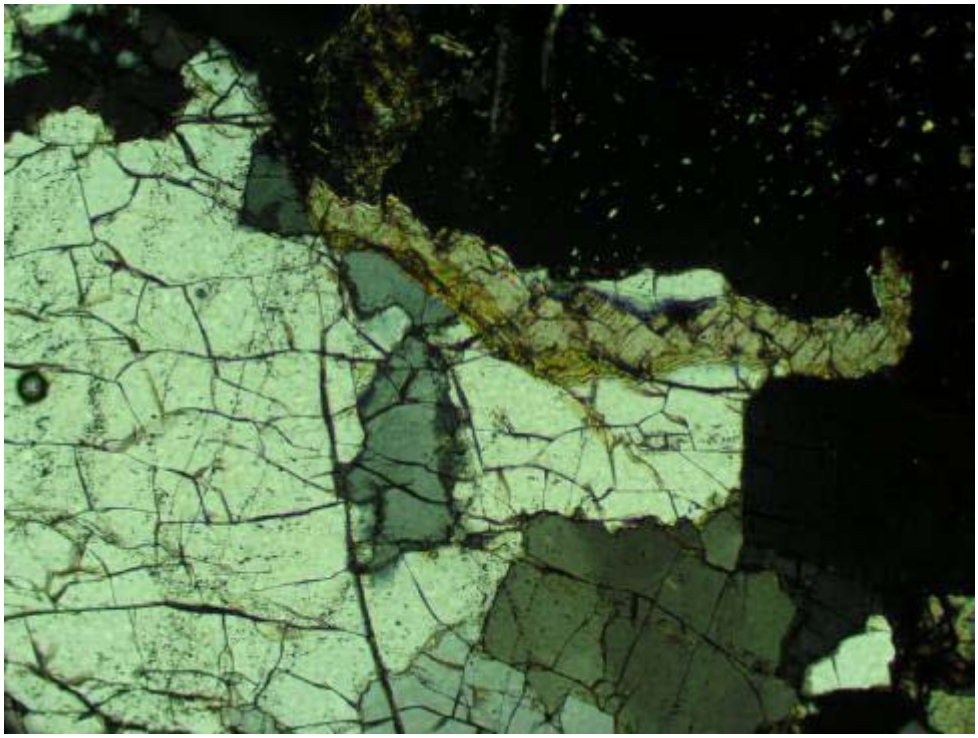


B

DG05-308C 125.00 -128.00: A&B) Representative chips of pervasively muscovite (sericite)-(carbonate)-altered and variably oxidized granitoid and liberated quartz fragments. Note rinds and staining by red-brown Fe-ox on granitoid fragments (left). A) PPL, B) XPL, FOV = ~ 4.5 mm.

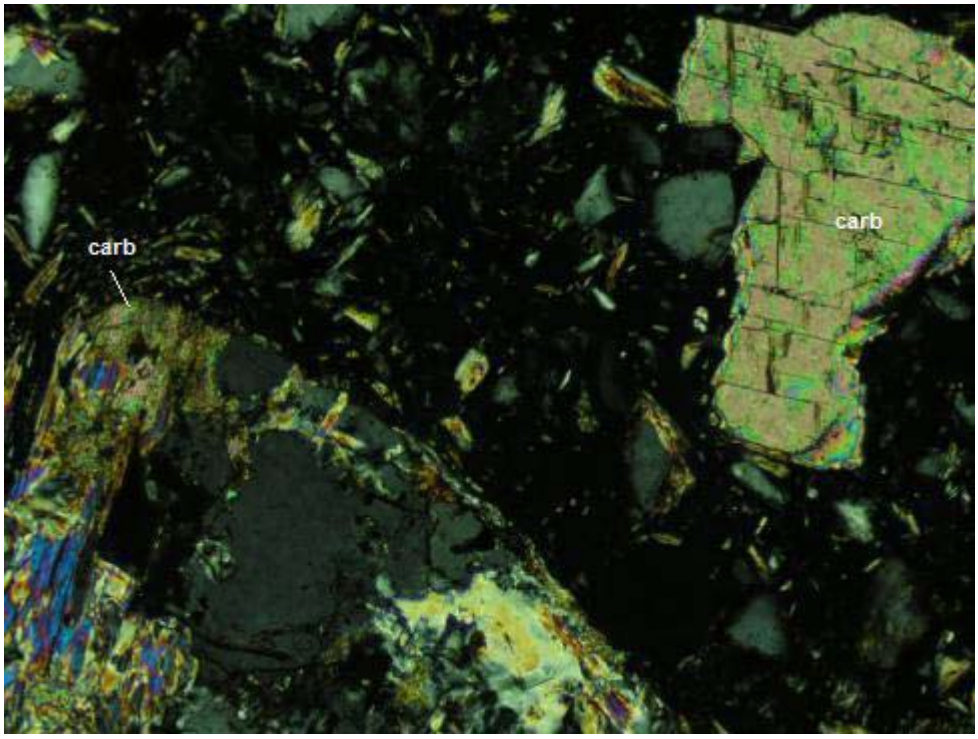


C

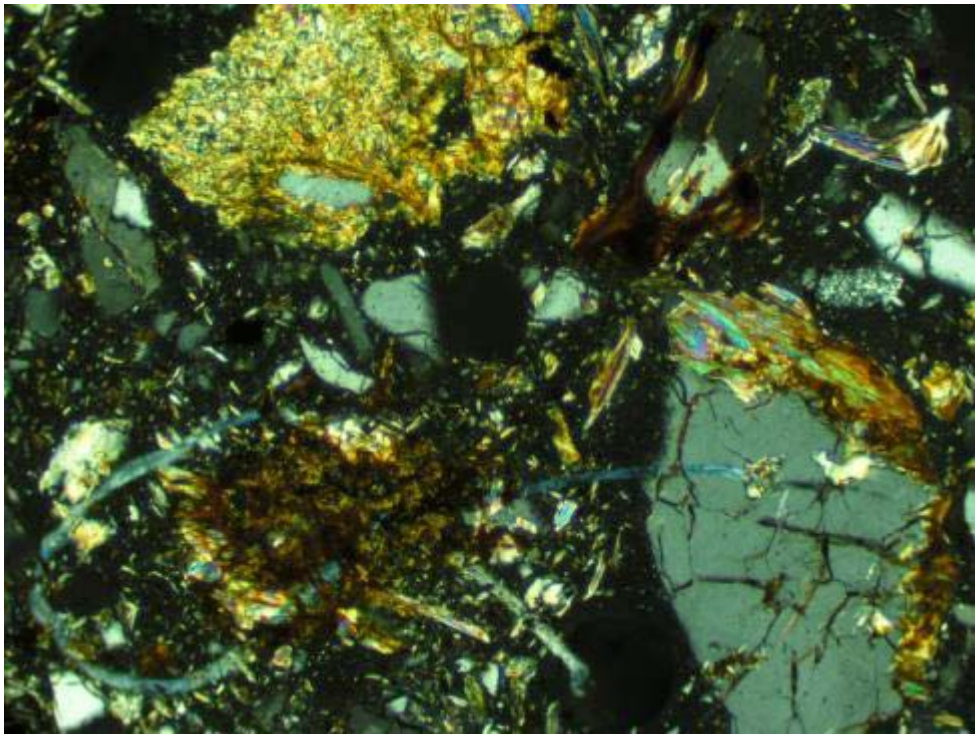


D

DG05-308C 125.00 -128.00: C) Fragments of altered granitoid with muscovite (sericite) aggregate partly replaced and stained by red-brown Fe-ox aggregate. Note liberated biotite plates. PPL, FOV =~ 4.5 mm, D) Fragment of quartz-carbonate vein. Note carbonate rimmed and partly replaced by red-brown Fe-ox aggregate. XPL, FOV =~ 1.3 mm

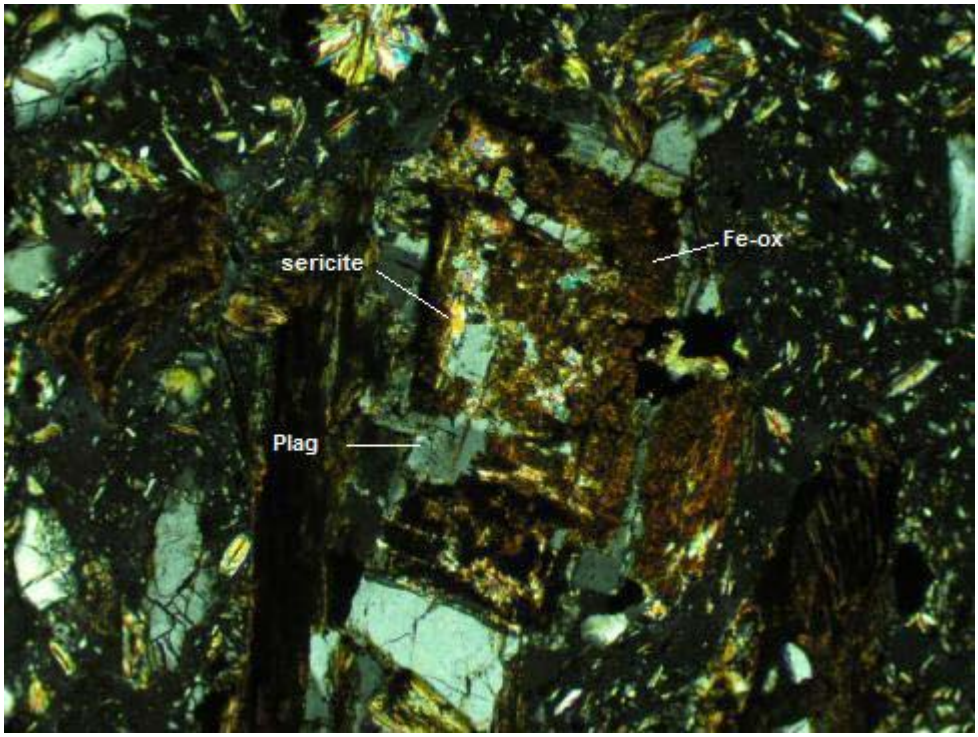


E

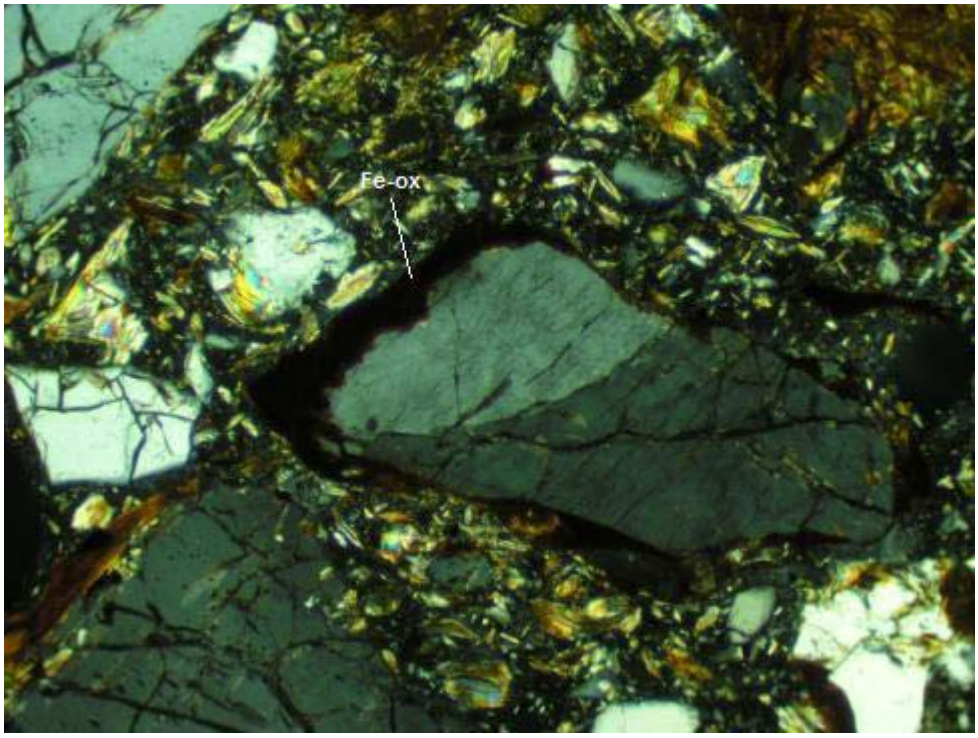


F

DG05-308C 125.00 -128.00: E) Liberated colourless carbonate grain (top right). Carbonate aggregate occurs with muscovite (sericite) as replacement of plagioclase in granitoid (left). XPL. FOV =~ 0.7 mm. F) Detailed view of muscovite (sericite)-aggregate within granitoid fragments partly replaced and stained by very fine-grained red-brown Fe-ox aggregate. XPL. FOV =~ 1.3 mm.

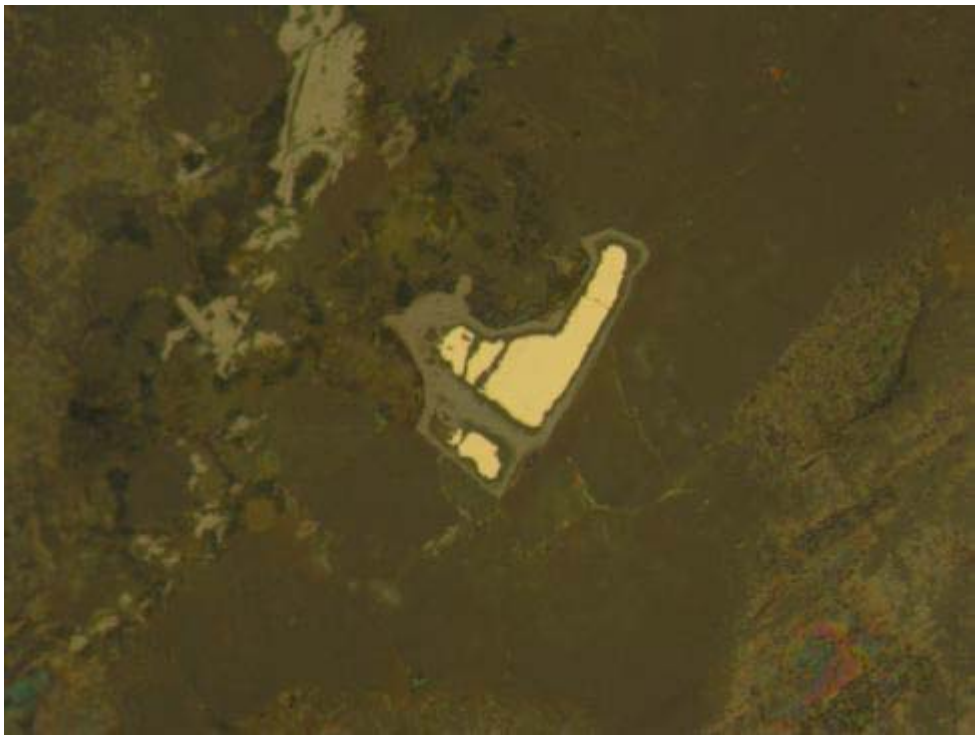


G

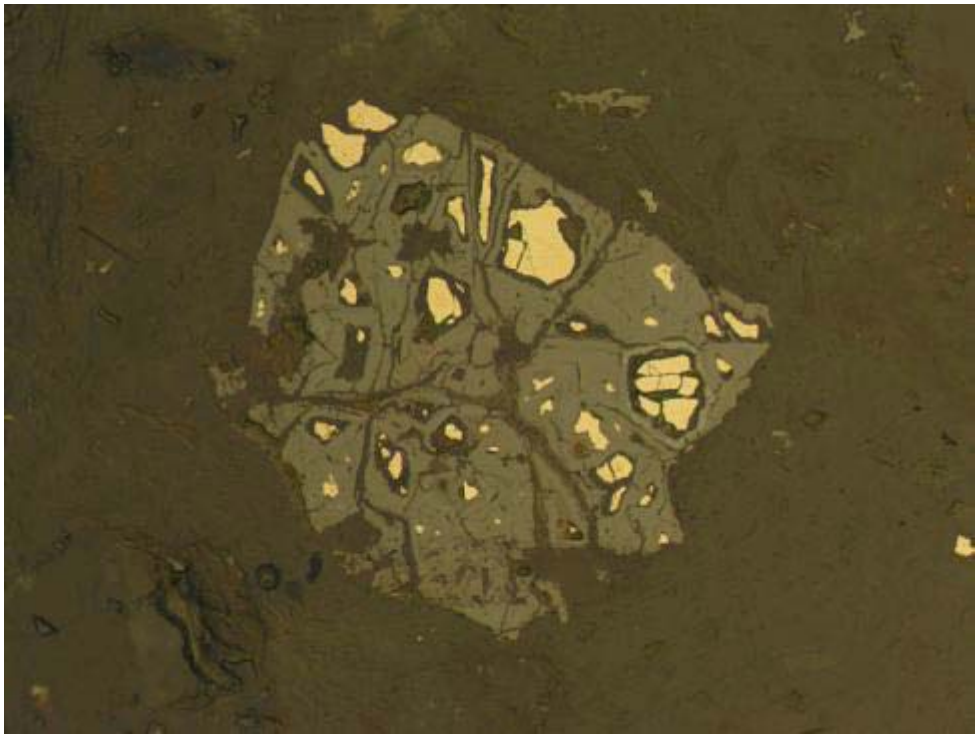


H

DG05-308C 125.00 -128.00: G) Red-brown Fe-ox aggregate occurs as replacement of muscovite (sericite)-altered plagioclase (centre). XPL. FOV =~ 1.3 mm. H) Quartz aggregate with rind of red-brown Fe-ox. XPL. FOV =~ 1.3 mm.

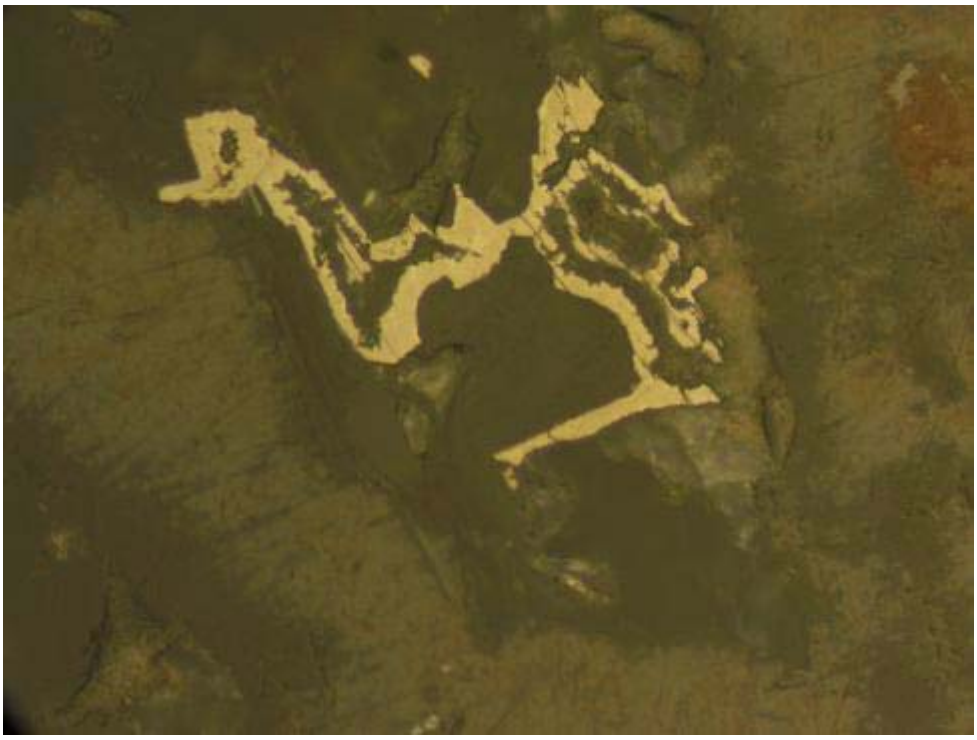


I

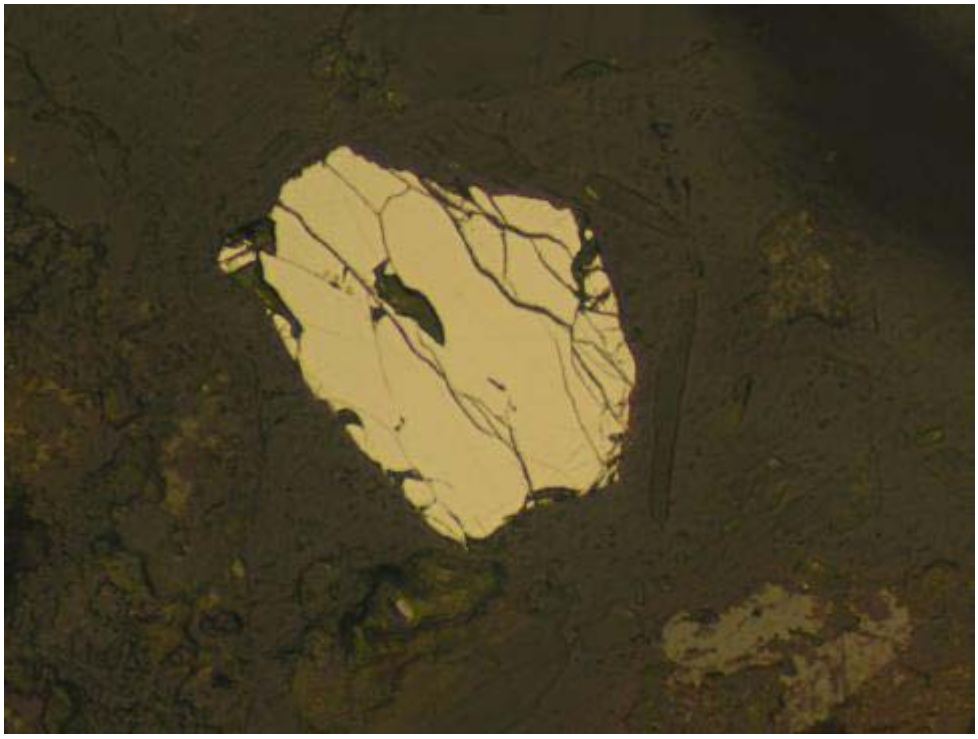


J

DG05-308C 125.00 -128.00: I) Disseminated pyrite grain within granitoid chip. Pyrite is rimmed and partly replaced by Fe-ox aggregate. RL, FOV =~ 0.3 mm. J) Liberated pyrite grain virtually completely replaced by Fe-ox aggregate. RL, FOV =~ 0.7 mm.



K



L

DG05-308C 125.00 -128.00: K) View of marcasite as replacement of pyrrhotite within granitoid fragment. RL. FOV =~ 0.3 mm. L) Detailed view of fractured liberated arsenopyrite grain. RL. FOV =~ 0.2 mm.

SGS-CEMI Project #: 0789 StrataGold
Sample ID: DG06-311C 130.45 -140.45 Offcut #: CN-3

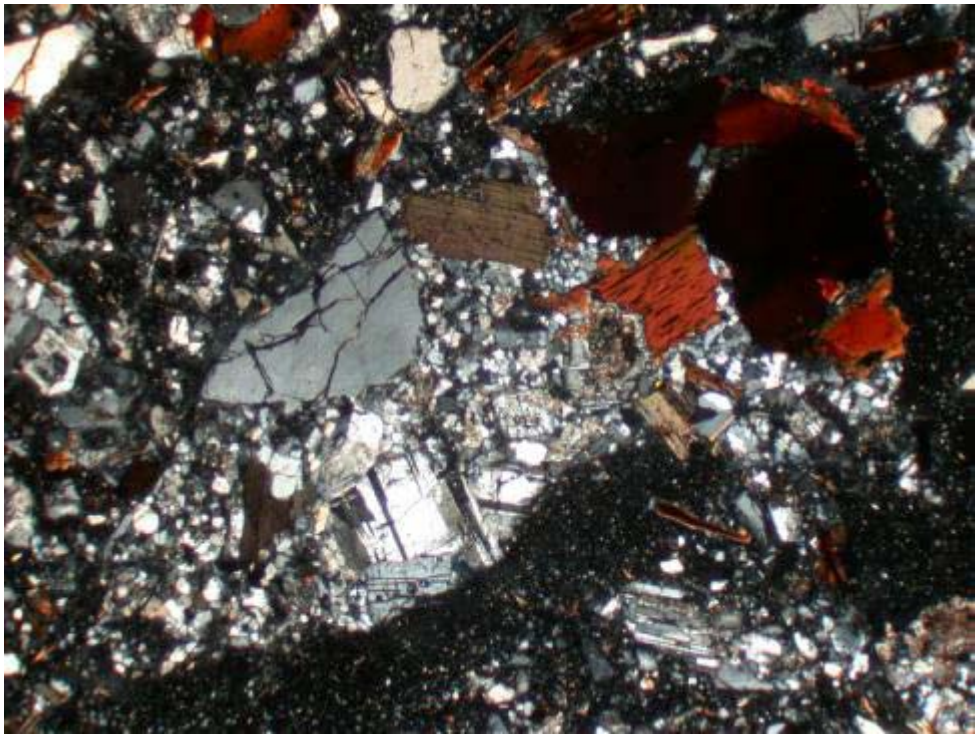
Chip and Offcut Mount Description:
Fine to coarse angular chips (less than 12 mm size) and very light grey powder. Chips comprise medium-light gray porphyry with fine-grained matrix and quartz vein. No reaction of chips to cold dilute HCl. No reaction of chips to magnet. Groundmass of porphyry has reacted to etching with HF and staining with sodium cobaltinitrite (yellow stain, approximately 30% K-feldspar). Several fine grains of scheelite observed using shortwave UV light.

Polished Thin Section Description:
Fine to coarse chips representing biotite-plagioclase±quartz±K-feldspar porphyry as well as quartz±K-feldspar and carbonate vein fragments and liberated grains of biotite, quartz and feldspars. The porphyry groundmass is fine to very fine-grained (typically < 100 µm size grains) and comprises dominantly K-feldspar, plagioclase and quartz. The porphyry phenocryst assemblage is fine to medium-grained and comprises brown platy biotite, plagioclase, locally K-feldspar and locally quartz. K-feldspar phenocrysts locally poikilitically enclose plagioclase and biotite grains. Plagioclase phenocrysts are generally only weakly altered by traces of muscovite (sericite); however, in a few fragments, plagioclase is extensively replaced by a felted aggregate of muscovite (sericite) and patchy carbonate. Plagioclase comprises approximately 25% of the section. Quartz comprises approximately 35% of the section. Biotite phenocrysts and liberated biotite plates are locally partly replaced by chlorite, patchy carbonate, ilmenite and pyrrhotite. Biotite comprises approximately 6% of the section. Muscovite (sericite) occurs in minor amounts, approximately 1%. Chlorite comprises approximately 1% of the section. Traces of prismatic fine-grained apatite and zircon (< 0.15 mm) occur disseminated. Traces of fine-grained (< 0.15 mm) scheelite occur disseminated in fragments and as liberated grains.

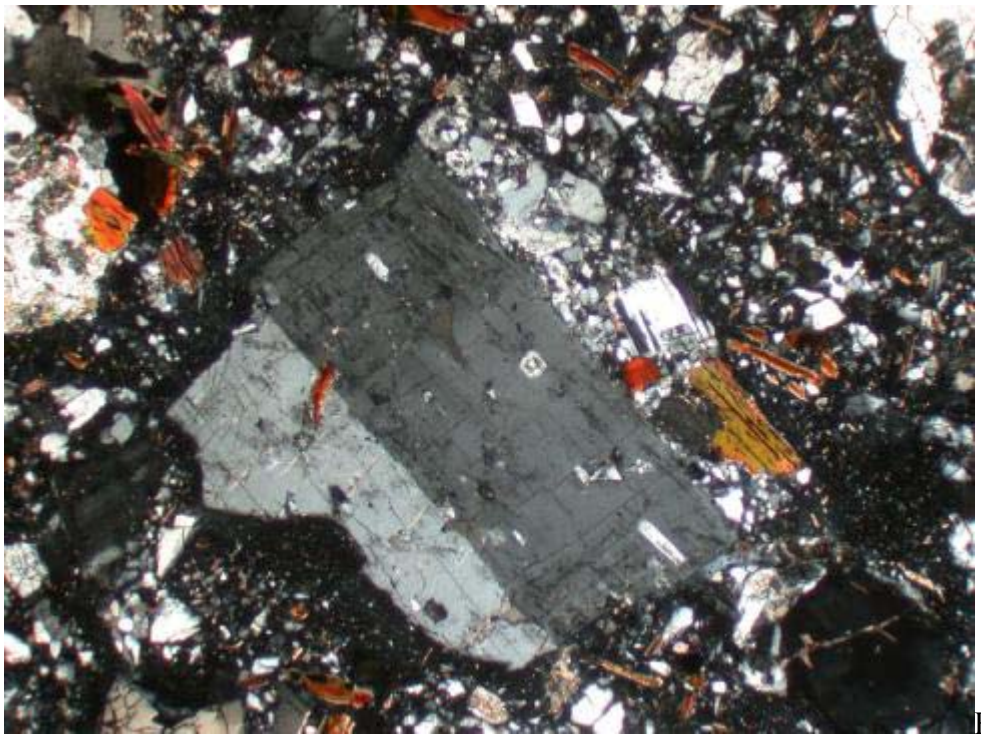
Total carbonate occurs in trace amounts in the section as colourless and brown aggregagates. Colourless carbonate occurs as 1) very fine-grained anhedral grains and patchy aggregates that occur with muscovite (sericite) as replacement of feldspar within porphyritic rock fragments, 2) fine-grained liberated grains and aggregates, and 3) as fracture infill. Brown carbonate occurs rarely as very fine-grained liberated aggregates. Rarely, traces of red-brown Fe-ox occur partly replacing colourless carbonate aggregate.

Sulphide occurs in minor amounts, approximately 1%, dominantly as pyrrhotite with traces of pyrite, arsenopyrite, chalcopyrite, marcasite and rare bismuthinite. Rare gold and unknown highly reflective very fine-grained phases occur associated with bismuthinite in one porphyritic rock chip. Pyrrhotite, approximately 1%, occurs as fine-grained (< 0.4 mm) anhedral grains and aggregates within porphyritic rock chips, as liberated grains and as replacement of biotite. Pyrrhotite occurs locally associated with chalcopyrite. Pyrrhotite grain boundaries are irregular but Fe-ox alteration rims are rare. Trace pyrite occurs as very fine-grained (< 0.025 mm) anhedral grains within rock chips. Pyrite grains are fractured with irregular rims but alteration rims are not evident. Irregular patches of very fine-grained marcasite occur locally with pyrite aggregate as replacement of pyrrhotite. Traces of arsenopyrite occur as fine-grained (< 0.1 mm) liberated grains and disseminated in porphyry chips. Arsenopyrite rims are clean without alteration. Trace chalcopyrite occurs disseminated in a couple of rock chips.

Traces of red-brown Fe-ox aggregate occur rarely as very fine-grained aggregates replacing carbonate and very rarely, pyrrhotite.

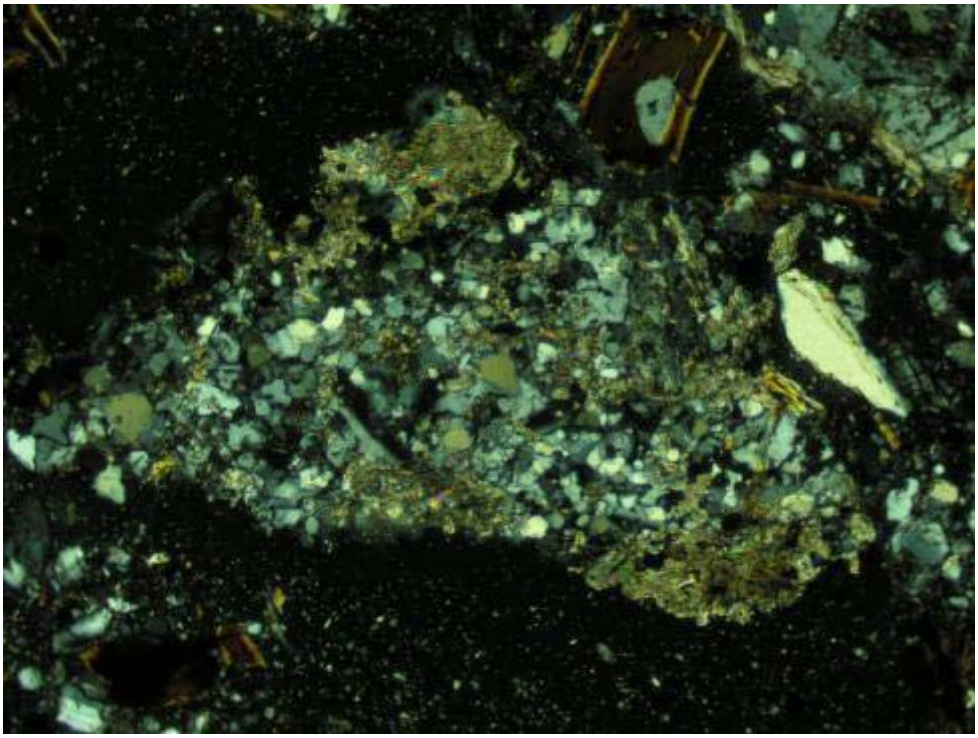


A

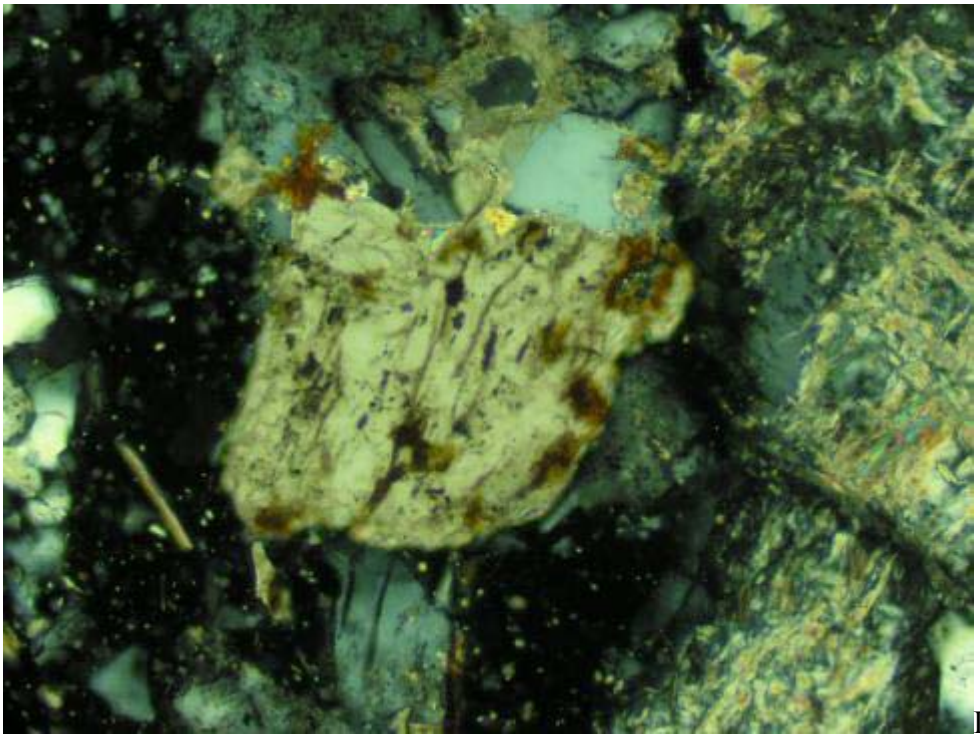


B

DG06-311C 130.45 -140.45: A) Representative chip of biotite-plagioclase-quartz porphyry. XPL, FOV =~ 4.5 mm. B) Representative chips of biotite-plagioclase porphyry with large K-feldspar phenocryst. XPL, FOV =~ 4.5 mm.

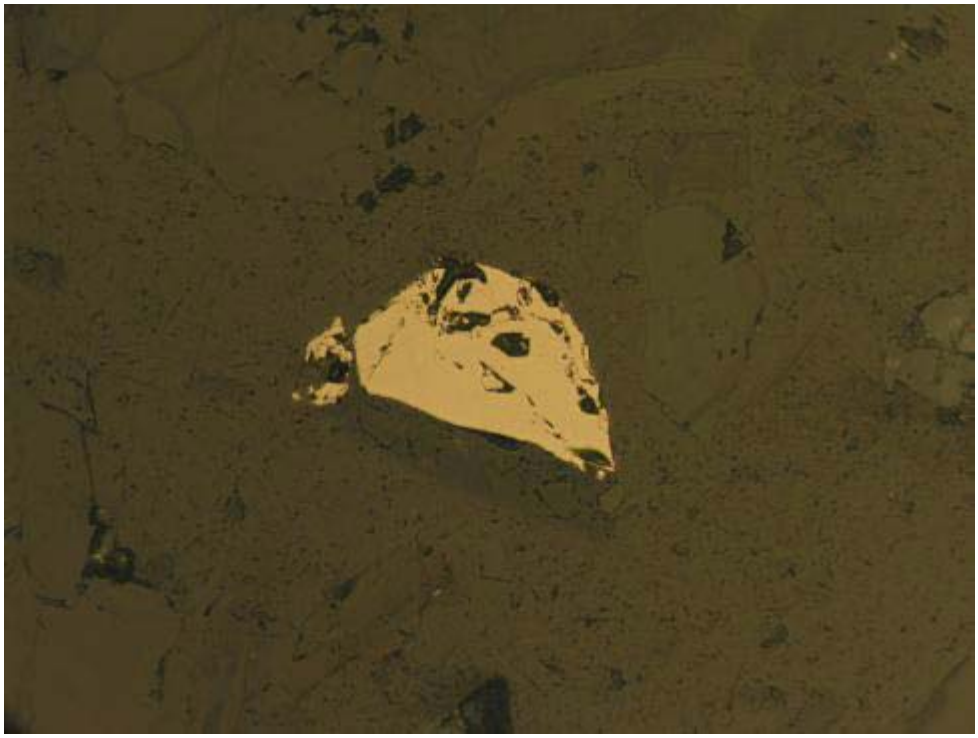


C

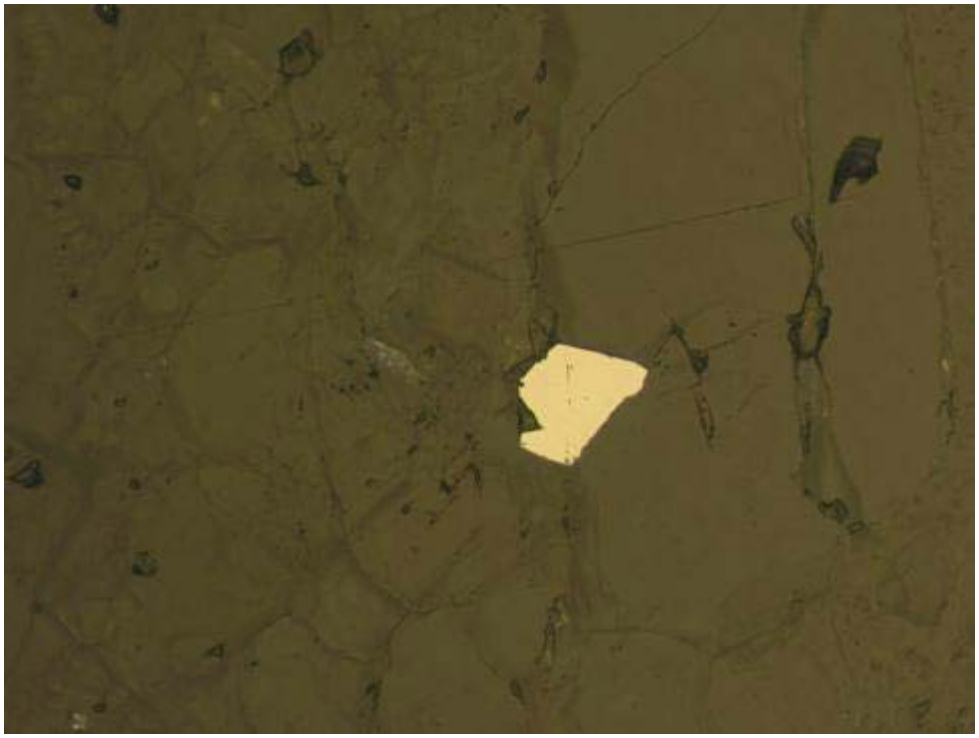


D

DG06-311C 130.45 -140.45: C) Patchy very fine-grained carbonate and muscovite (sericite) as replacement of plagioclase within porphyry. XPL, FOV =~ 2.6 mm, D) Fine-grained colourless carbonate partly replaced by patches of red-brown Fe-ox. Note muscovite (sericite) replacement of plagioclase (right). XPL, FOV =~ 0.7 mm

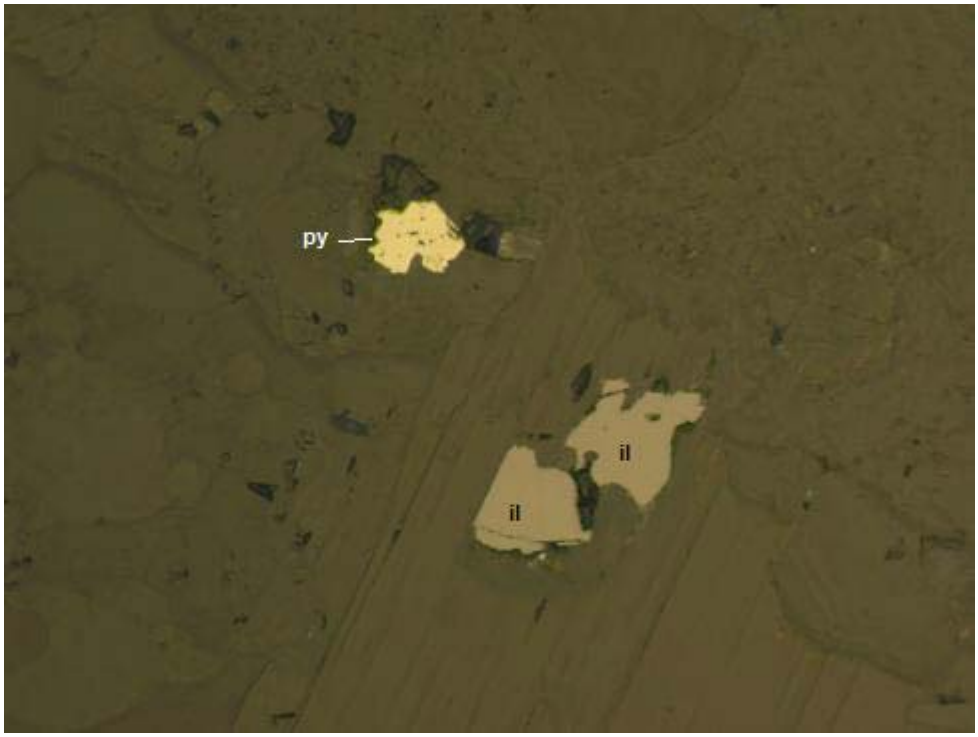


E

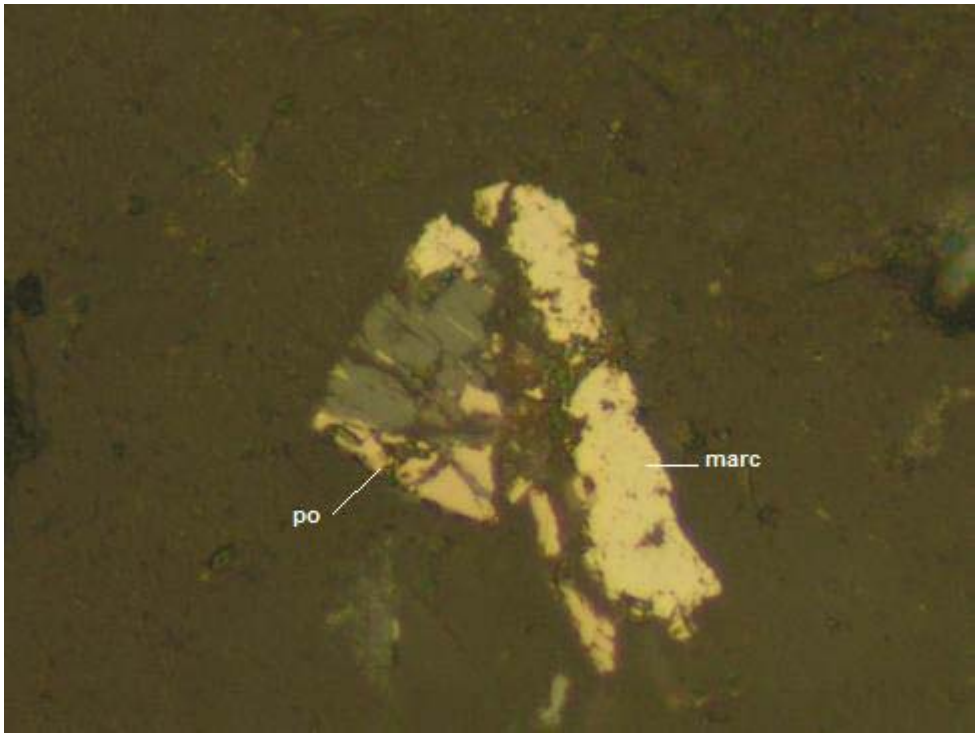


F

DG06-311C 130.45 -140.45: E) Liberated pyrrhotite grain without alteration rim. RL. FOV =~ 0.7 mm. F) Grain of arsenopyrite within porphyry chip. RL. FOV =~ 0.7 mm.



G



H

DG06-311C 130.45 -140.45: G) Pyrite (py) within porphyry rock chip. Note grains of ilmenite (il) within biotite. RL. FOV =~ 0.7 mm. H) Pyrrhotite and marcasite partly replaced by Fe-ox aggregate. RL. FOV =~ 0.1 mm.

SGS-CEMI Project #: 0789 StrataGold
Sample ID: DG07-327C 24.69 -33.83 Offcut #: CN-4

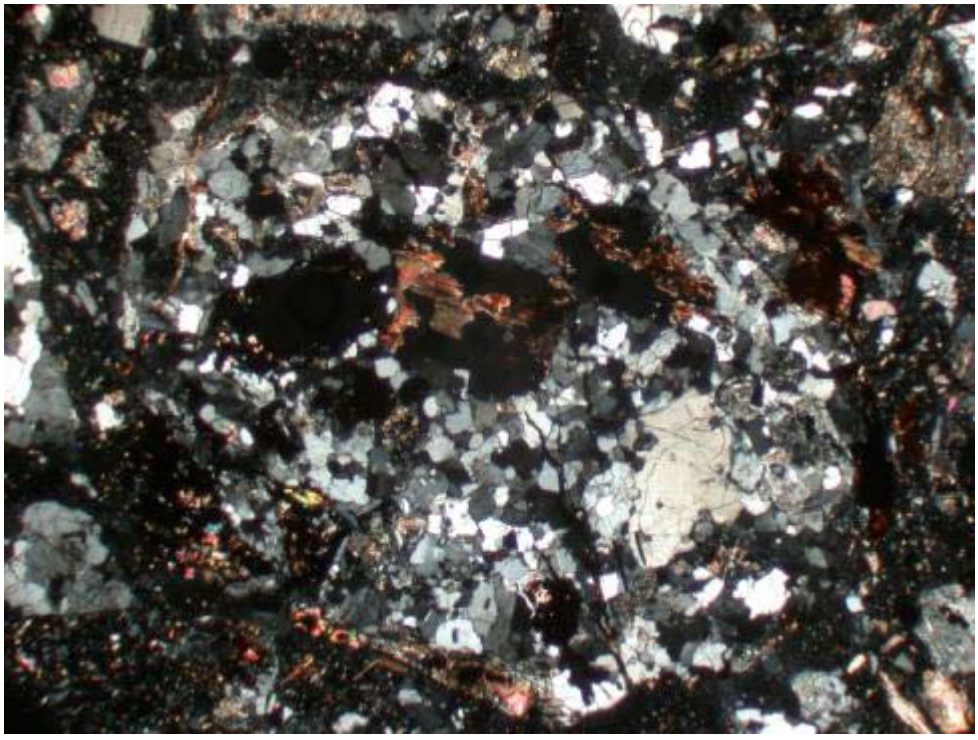
Chip and Offcut Mount Description:
Fine to coarse angular chips (less than 12 mm size) and grayish-orange powder. Chips comprise cream to orange-brown stained porphyry with fine-grained matrix and fine to medium-grained leucocratic rock cut by quartz veinlets. Rare slight reaction of chips to cold dilute HCl. No reaction of chips to magnet. Reaction of rock chips to etching with HF and staining with sodium cobaltinitrite (yellow stain, approximately 30% K-feldspar).

Polished Thin Section Description:
Fine to coarse chips representing variably oxidized, pervasively muscovite (sericite)-carbonate altered biotite-plagioclase± quartz± K-feldspar porphyry as well as fine to medium-grained K-feldspar±quartz fragments and quartz-carbonate vein fragments. The porphyry groundmass is fine to very fine-grained (typically < 150 µm size grains) and comprises dominantly K-feldspar, plagioclase and quartz. The porphyry phenocryst assemblage comprises fine-grained altered brown platy biotite (~3% of the section), fine to medium-grained altered plagioclase, locally medium-grained K-feldspar and locally medium-grained quartz. Tabular plagioclase phenocrysts are replaced by a felted aggregate of muscovite (sericite), patchy carbonate aggregate and locally clay. Plagioclase comprises approximately 10% of the section. Quartz comprises approximately 40% of the section. Biotite phenocrysts and liberated biotite plates are commonly partly replaced by muscovite (sericite), patchy carbonate, Fe-ox aggregate and locally clay. Muscovite (sericite) occurs in major amounts, approximately 5%, within the porphyritic rock fragments. Clay occurs in minor amounts, approximately 1%. A few porphyry fragments have fine rinds of red-brown Fe-ox aggregate and fractures infilled by Fe-ox aggregate.

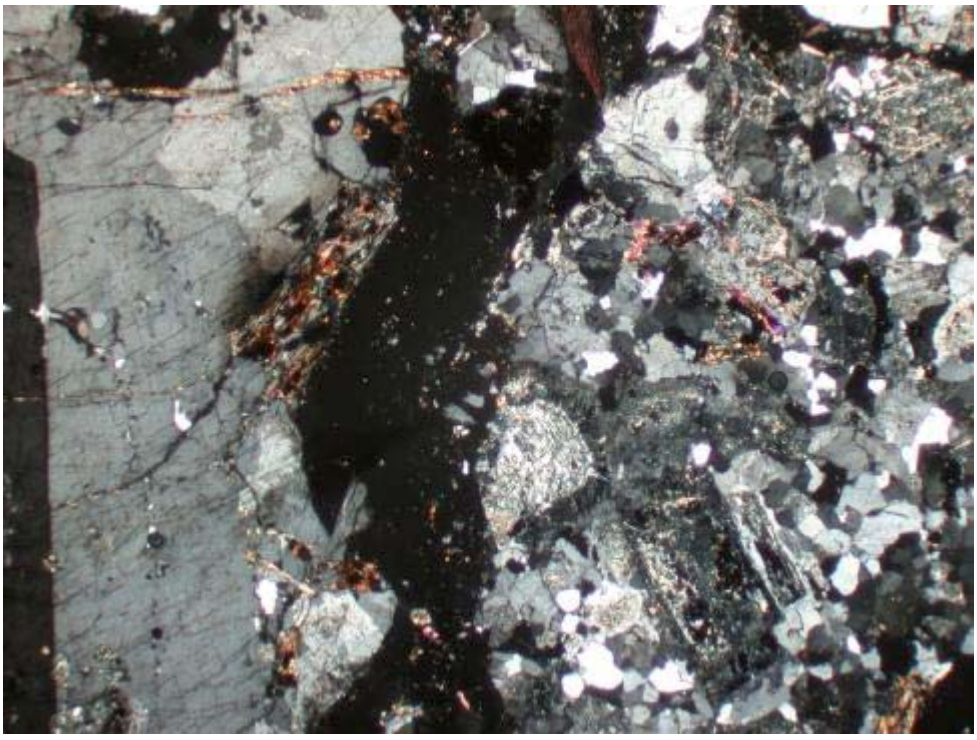
Total carbonate comprises approximately 3% of the section. Carbonate is colourless and occurs as 1) very fine-grained anhedral grains and patchy aggregates that occur with muscovite (sericite) as replacement of plagioclase and biotite within porphyritic rock fragments, 2) fine grains in vein fragments with quartz and as liberated grains and aggregates and 3) fine-grained fracture infill. Commonly, red-brown Fe-ox occur partly replacing carbonate aggregate.

Sulphide occurs in trace amounts dominantly as pyrite, marcasite and rare pyrrhotite. Pyrite occurs as fine-grained (< 0.2 mm) eu-subhedral grains and aggregates within porphyritic rock chips and as liberated grains. Locally, pyrite aggregate occurs associated with very fine-grained marcasite. Pyrite and marcasite are rimmed and partly replaced by Fe-ox aggregates. One grain of very fine-grained liberated pyrrhotite was observed in the section.

Red-brown Fe-ox occurs in major amounts (approximately 7%) in the section. Fe-ox occurs as liberated fine-grained and very fine-aggregates, commonly as very fine-grained replacement of carbonate, biotite and plagioclase, locally as rinds on fragments and fracture infill and rarely as replacement of pyrrhotite. Traces of orange-brown Fe-ox occurs with red-brown Fe-ox as replacement of carbonate and stain on rock fragments.

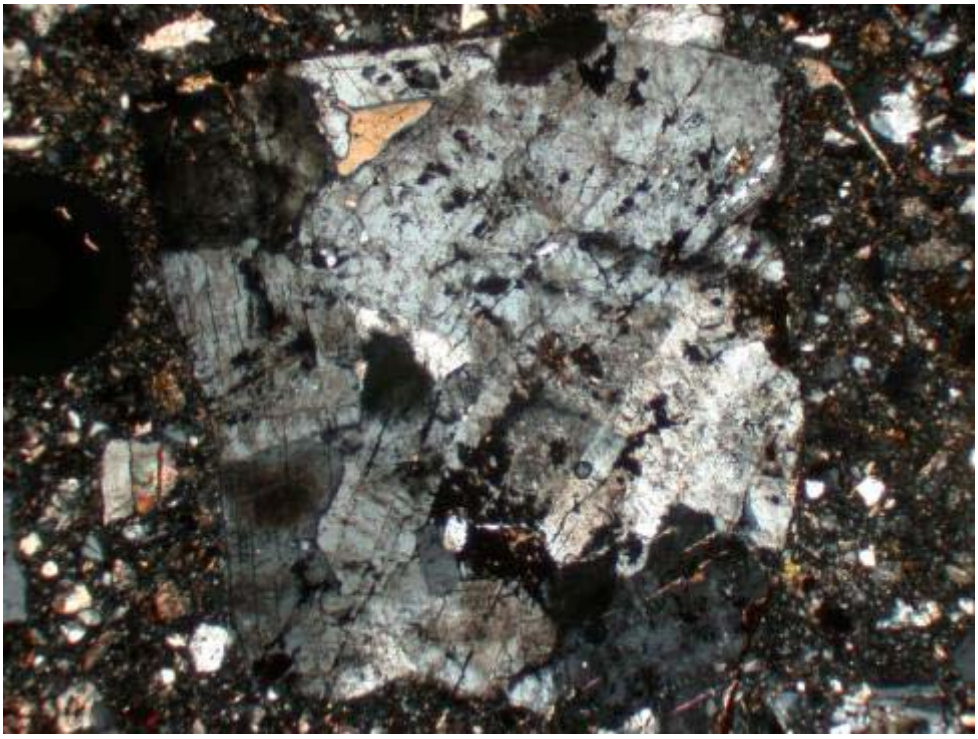


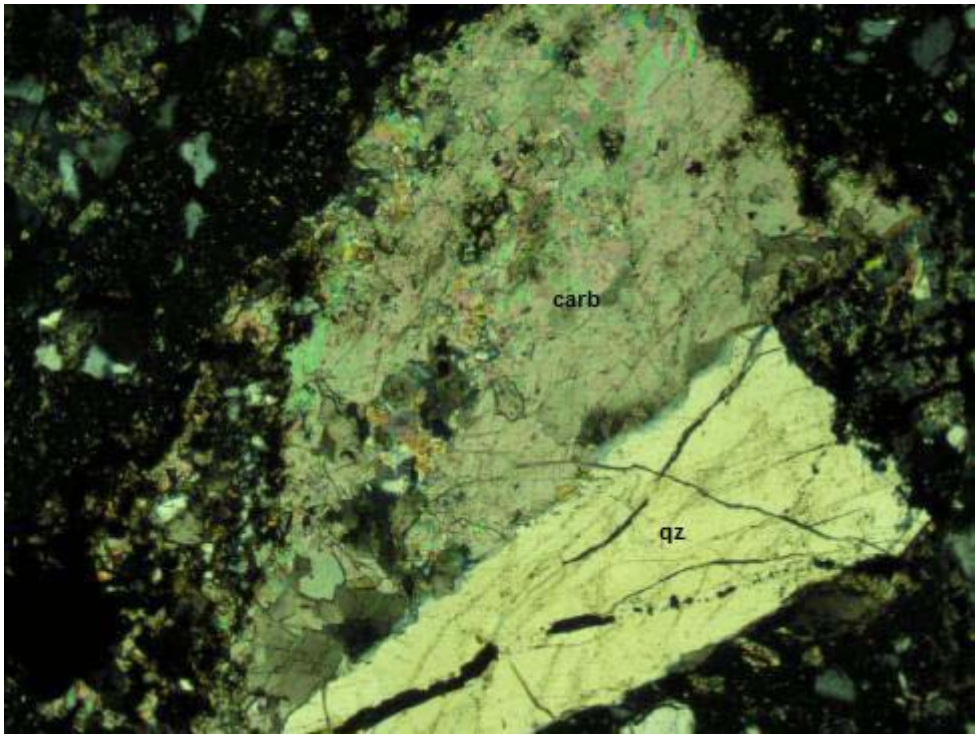
A



B

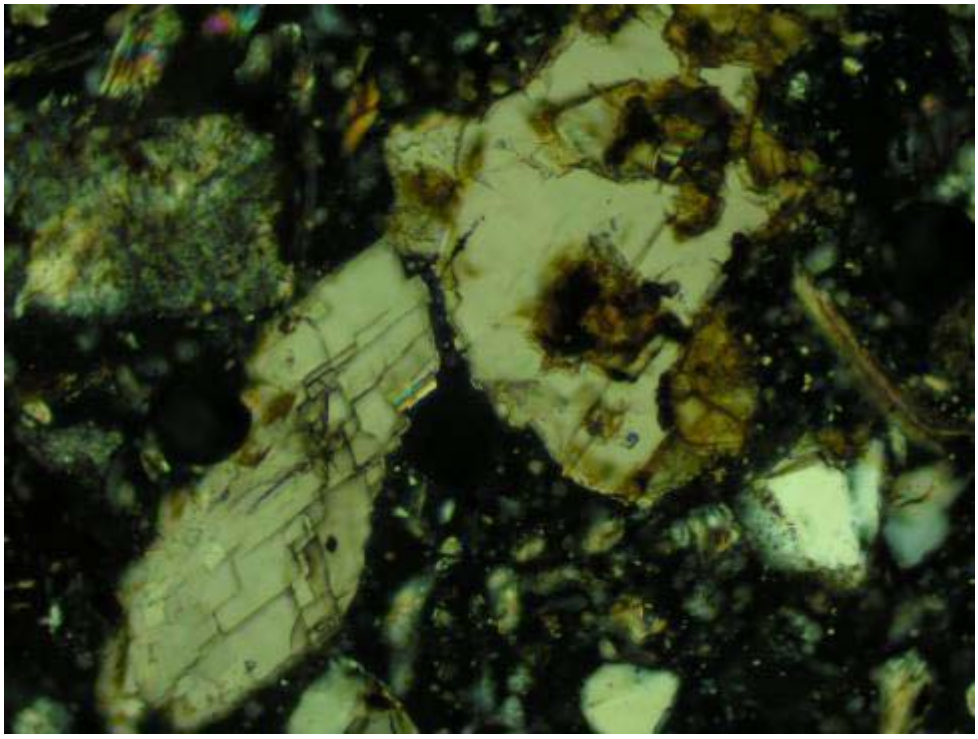
DG07-327C 24.69-33.83: A) Fragment of altered porphyry with biotite phenocrysts partly replaced by Fe-ox aggregate which is partly plucked from the section. XPL, FOV =~ 4.5 mm. B) Fragments of porphyry (right) with plagioclase phenocrysts partly replaced by muscovite (sericite) aggregate. Fragment of porphyry with K-feldspar phenocryst (left). XPL, FOV =~ 4.5 mm.


C

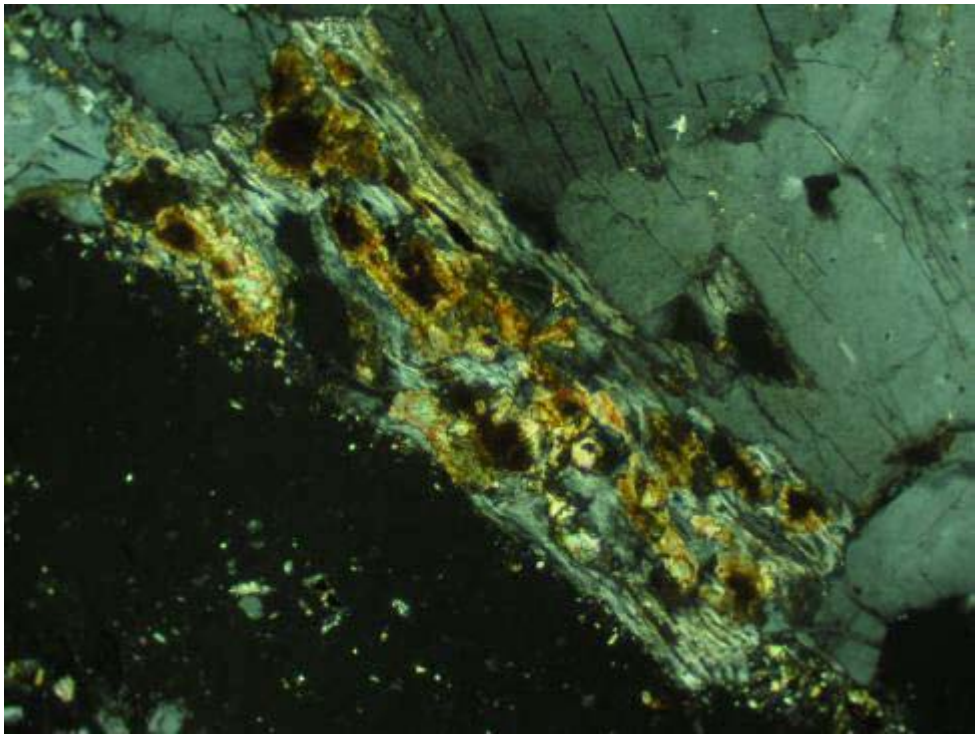


D

DG07-327C 24.69-33.83: C) K-feldspar-(quartz) fragment. XPL, FOV =~ 4.5 mm, D) Quartz-carbonate vein fragment. XPL, FOV =~ 2.6 mm

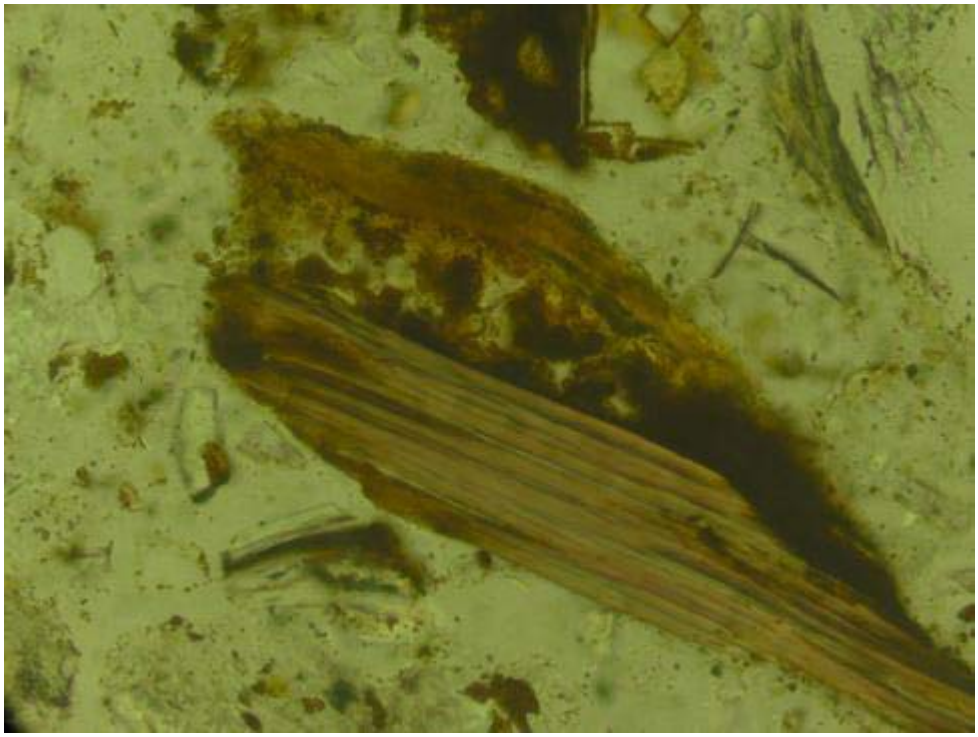


E

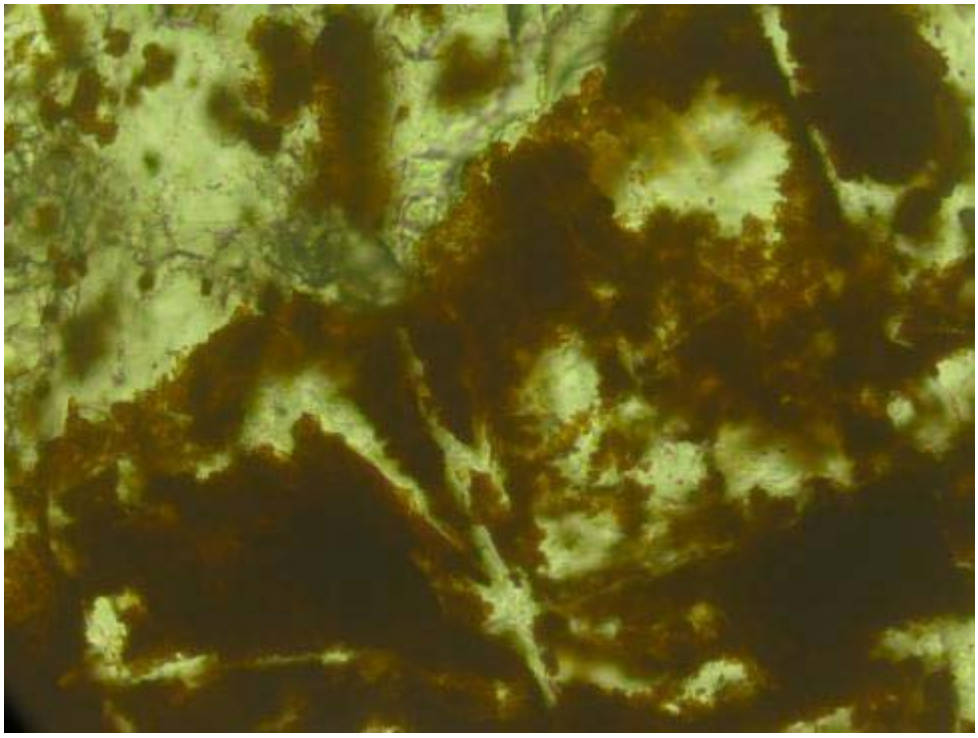


F

DG07-327C 24.69-33.83: E) Liberated colourless carbonate grains partly replaced by red-brown Fe-ox aggregate. XPL. FOV =~ 0.7 mm. F) Relict biotite phenocryst replaced by sericite aggregate and patchy carbonate aggregate partly replaced by Fe-ox. XPL. FOV =~ 1.3 mm.

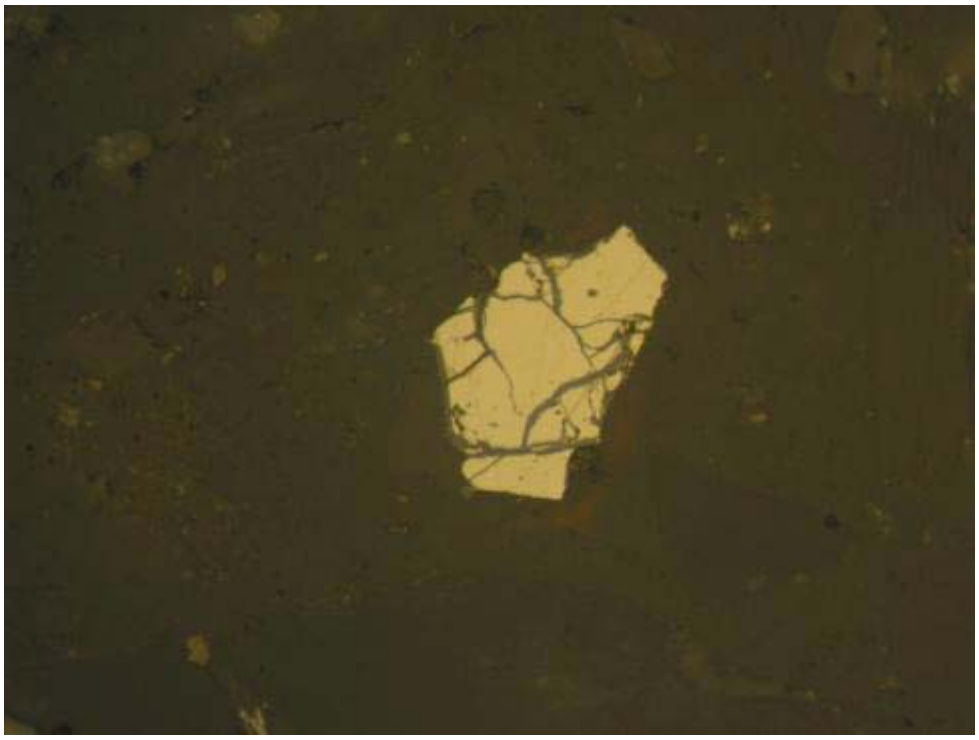


G

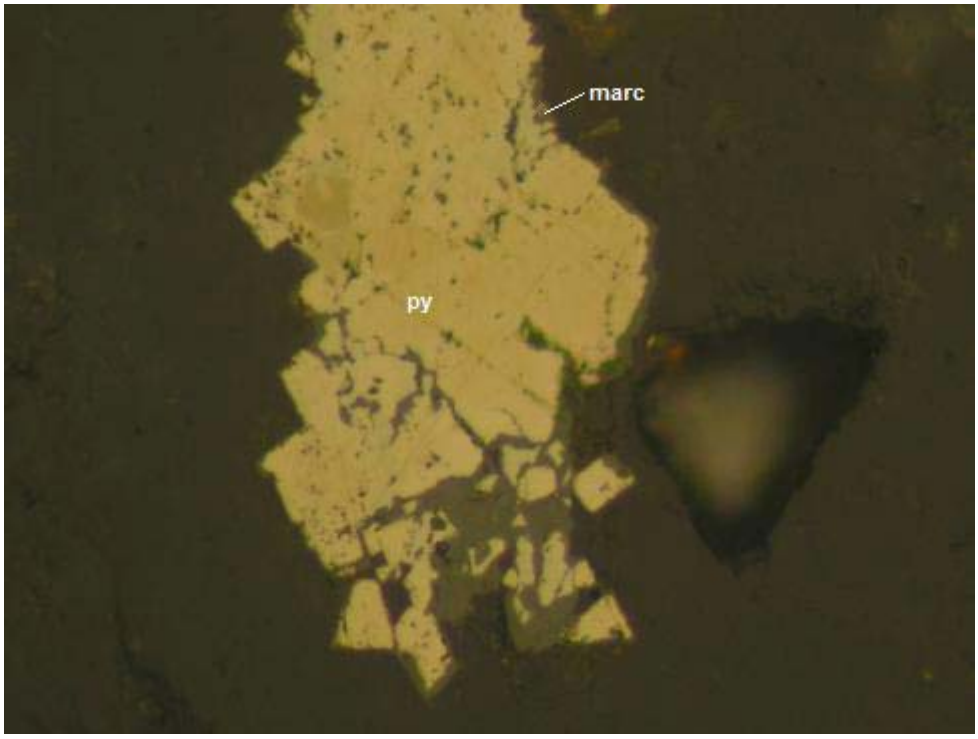


H

DG07-327C 24.69-33.83: G) Liberated biotite partly replaced along cleavage planes by Fe-ox aggregate. PPL. FOV =~ 0.3 mm. H) Detailed view of very fine-grained red-brown Fe-ox aggregate as replacement of carbonate. PPL. FOV =~ 0.3 mm.



I



J

DG07-327C 24.69-33.83: I) Pyrite grain rimmed and replaced along fractures by Fe-ox. RL. FOV =~ 0.3 mm.
J) Pyrite-marcasite aggregate partly replaced by Fe-ox (light grey). RL. FOV =~ 0.2 mm.

Statement of qualifications: Kathryn P.E. Dunne

I, Kathryn P.E. Dunne, of the City of Salmon Arm, province of British Columbia, do hereby certify that:

1. I am an independent consulting geologist, with a business office at 4610 Lakeshore Road NE, Salmon Arm, B.C., Canada. My business mailing address is: Bag 9000, # 207, 190B Trans Can Hwy NE, Salmon Arm, BC, V1E 1S3.

2. I am a graduate in geology, with a BSc in geology from The University of British Columbia (1985).

3. I received my Masters degree in geology from The University of British Columbia, Vancouver, B.C. in 1988.

4. I am a registered member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia (No. 18674).

5. I am a fellow of the Geological Association of Canada and a member of the Society of Economic Geologists.

6. I have practiced my profession as a geologist for approximately 20 years: 4 years as geologist with the British Columbia Geological Survey Branch, 3 years as research coordinator at the Mineral Deposit Research Unit housed within the Department of Earth and Ocean Sciences at the University of British Columbia, and 13 years as an independent consultant.

7. The petrographic data of this report was collected by me in May 2010.

……..……

Kathryn P.E. Dunne, M.Sc., P.Geo.
Consulting Geologist
May 14, 2010

Mineralogy Report

CHARACTERIZATION OF ROCK CHIPS, EAGLE GOLD PROJECT

Feb 17, 2010

SGS-CEMI Project #:
09102 Eagle Gold Proj 366C

Prepared for:
Rik Vos
SGS CEMI Inc.
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Prepared by:
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Background

One crushed rock sample from the Eagle Gold Project is characterized in this report (SGS CEMI Project No. 09102). Optical reporting was requested by Rik Vos of SGS CEMI Inc. The sample was submitted for polished thin section production at Vancouver Petrographics Ltd. on Dec. 10, 2009. The sample, polished thin section and offcut mount was then sent to Kathryn Dunne, P.Geo. for optical analysis. The purpose of the optical study was to characterize the mineralogy with particular emphasis on sulphide minerals and any carbonate minerals present.

The optical observations are summarized below and petrographic descriptions of polished thin sections with representative photomicrographs follow the summary. All percentages in the descriptions are approximate based on visual estimation.

Please note the following grain size conventions are used in the report: very fine-grained (< 50 µm), fine-grained (> 50 µm and less than 1 mm), medium-grained (> 1mm and < 5 mm) and coarse-grained (> 5mm).

Tabular summary

Sample #	**Sulphide**	**% ~**	**Carbonate occurrence**	**% ~**	**Fe-Oxides and Oxyhydroxides**	**% ~**	**Some Other > 1%**	**% ~**
42479	pyrrhotite pyrite arsenopyrite chalcopyrite molybdenite marcasite	1 tr tr tr tr tr	colourless, fine to very fine-grained, anhedral grains and fine to medium-grained liberated vein fragments	5	red-brown Fe-ox	tr	Plagioclase (altered) K-feldspar biotite muscovite (sericite) chlorite	40 20 10-15 2 1

tr = trace (< 1%); x = none observed; Fe-ox = Fe-oxide or oxyhydroxide



SGS-CEMI Project #: 09102
Sample ID: 42979 Offcut #: CX-1

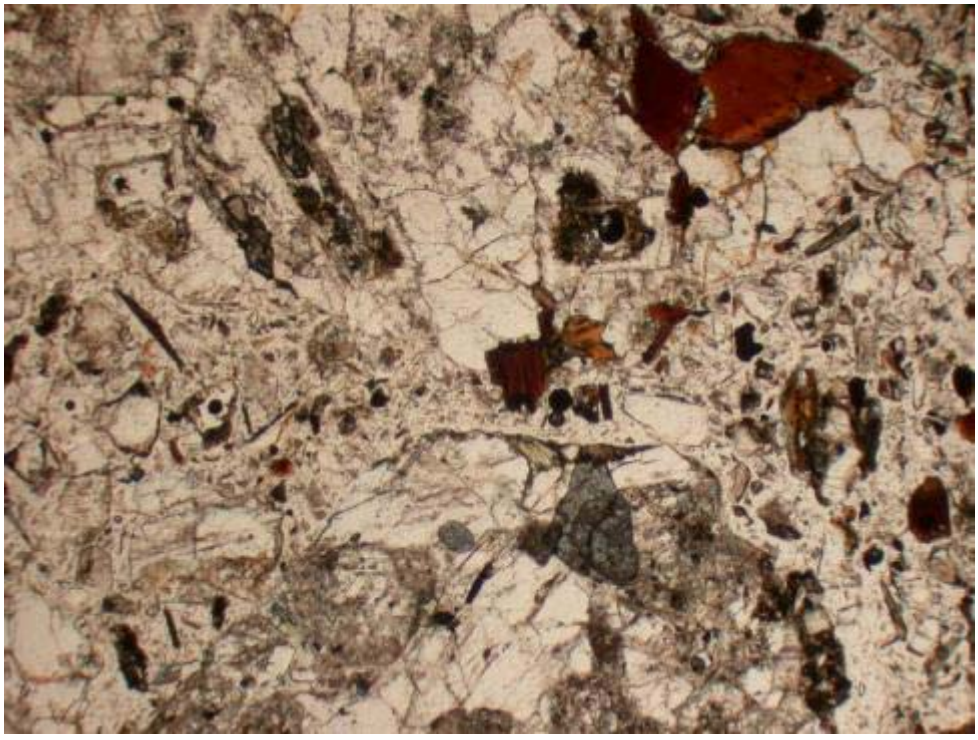
Chip and Offcut Mount Description:
Fine to medium angular chips (less than 5 mm size). Chips comprise light gray and very light gray fine to medium-grained biotite-bearing intrusive rock. Traces of fine-grained, disseminated brass-coloured sulphide minerals. Strong reaction of some chips to cold dilute HCl. No reaction of chips to magnet. No bluish-white fluorescence under shortwave UV light (no scheelite). Reaction of intrusive rock fragments to etching with HF and staining with sodium cobaltinitrite (approximately 20% K-feldspar).

Polished Thin Section Description:
Fine to coarse chips representing selectively sericite-carbonate altered seriate-inequigranular biotite granodiorite, minor leucocratic fine-grained porphyry as well as liberated quartz, feldspar, biotite and carbonate grains. One fragment of quartz ?vein aggregate cut by carbonate-filled fractures is observed. The seriate inequigranular rock is fine to medium-grained (maximum 3 mm size grains) and comprises dominantly altered plagioclase (~40%), quartz (~30%) and orthoclase (~20%) with lesser tan-red brown biotite (~10%) and locally traces of fine-grained hornblende and ilmenite. The leucocratic porphyry comprises phenocrysts of quartz in a fine-grained quartz-feldspar matrix with minor biotite. Plagioclase, in the section, is partly replaced by muscovite (sericite) and patchy carbonate aggregate. Muscovite (sericite) occurs in minor amounts in the section (~2%). Biotite within rock fragments and liberated biotite plates together comprises ~10-15% of the section. Biotite is partly replaced by minor chlorite, patchy rutile and locally carbonate. Hornblende is partly replaced by patchy carbonate. Traces of apatite occur within granodiorite rock fragments. Chlorite occurs in minor amounts (~1%) dominantly as replacement of biotite.

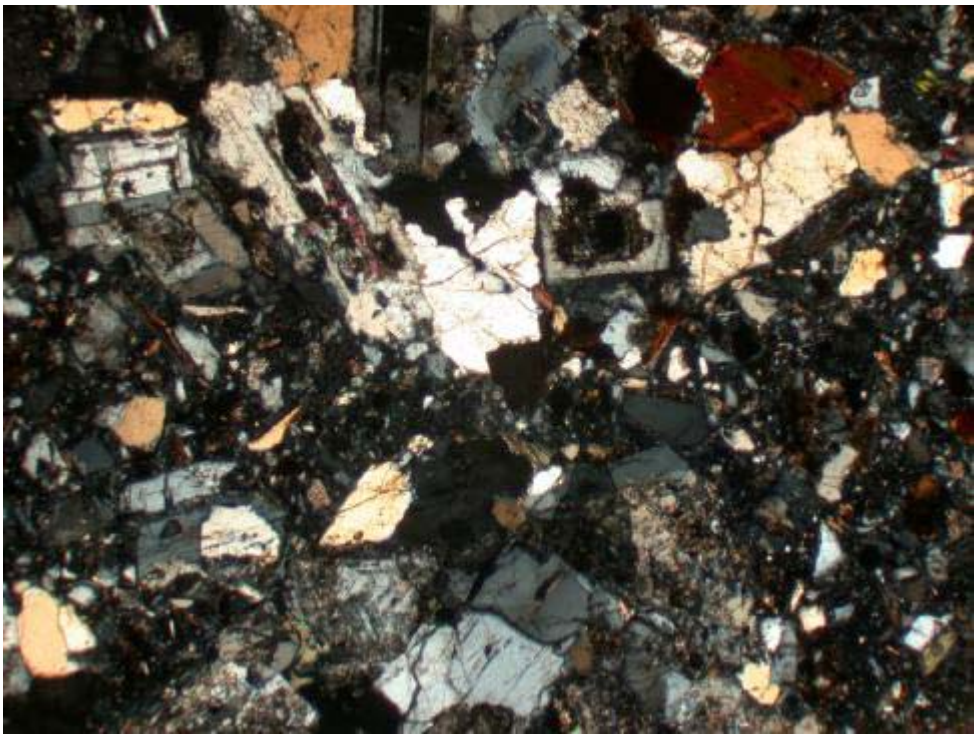
Total carbonate comprises approximately 5% of the section dominantly as colourless carbonate with rare traces of brown carbonate. Colourless carbonate occurs as 1) fine to very fine-grained anhedral patchy aggregates that occur locally with muscovite (sericite) as replacement of plagioclase in granodiorite fragments 2) fine-grained infill to discontinuous brittle fractures in granodiorite and possible quartz vein fragments and 3) fine to medium-grained liberated vein fragments. Colourless carbonate aggregate is rarely partly replaced by very fine-grained brown carbonate aggregate or red-brown Fe-oxide/oxyhydroxide aggregate. Rarely carbonate is partly replaced by very fine-grained euhedral brown rutile grains.

Sulphide occurs in minor amounts, approximately 1%, dominantly as pyrrhotite with traces of pyrite, arsenopyrite, molybdenite, chalcopyrite and rare marcasite. Pyrrhotite, approximately 1%, occurs as fine to very fine-grained (< 0.1 mm) anhedral grains and aggregates within granodiorite rock chips and as liberated grains. Pyrrhotite is locally rimmed and partly replaced along partings by red-brown Fe-ox aggregate. Some pyrrhotite grains have a rimmed appearance but no secondary coatings. Trace pyrite occurs disseminated as fine to very fine-grained (< 0.16 mm), anhedral grains and aggregates within rock chips and as liberated particles or aggregate. Pyrite grains are locally pitted and grain boundaries are typically unaltered. One aggregate of very fine-grained pyrite is strongly rimmed and replaced by red-brown Fe-oxide/oxyhydroxide aggregate. Traces of arsenopyrite occur as fine-grained (<0.45 mm) liberated grains and very fine-grained aggregates (< 0.015 mm). Rare traces of marcasite are observed partly replacing pyrrhotite enclosed within a liberated arsenopyrite grain. Arsenopyrite rims are typically without secondary alteration. Rare ?arsenopyrite grains are partly replaced by Fe-oxide/oxyhydroxide material. Traces of fine-grained molybdenite occur within a granodiorite fragment. Traces of very fine-grained chalcopyrite (< 0.05 mm) occur associated with pyrrhotite and disseminated within rock fragments.

Traces of red-brown Fe-oxide/oxyhydroxide occur locally partly replacing pyrrhotite and very rarely partly rimming and replacing pyrite, arsenopyrite and carbonate grains.



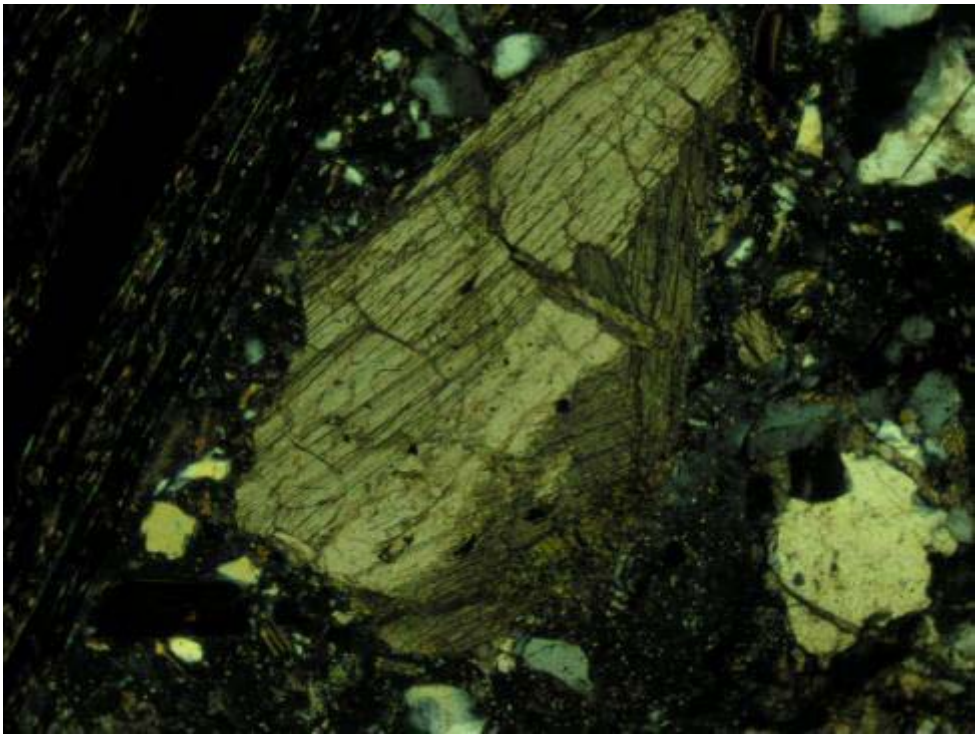
A



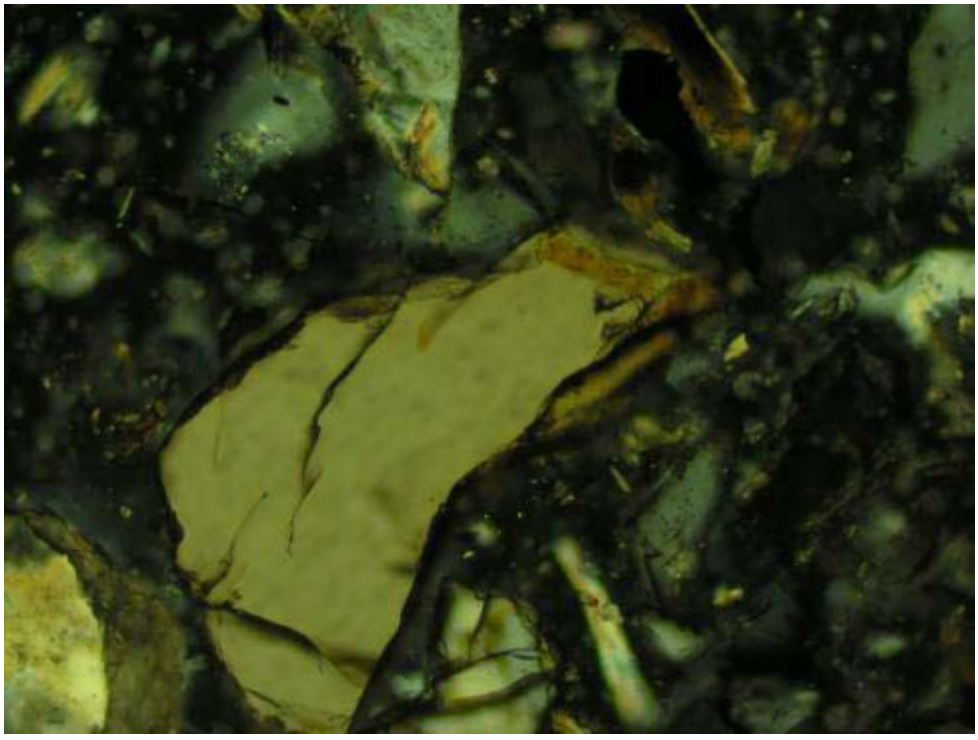
B

42479: Representative chips of seriate inequigranular biotite granodiorite. A) PPL, B) XPL, FOV =~ 4.5 mm.

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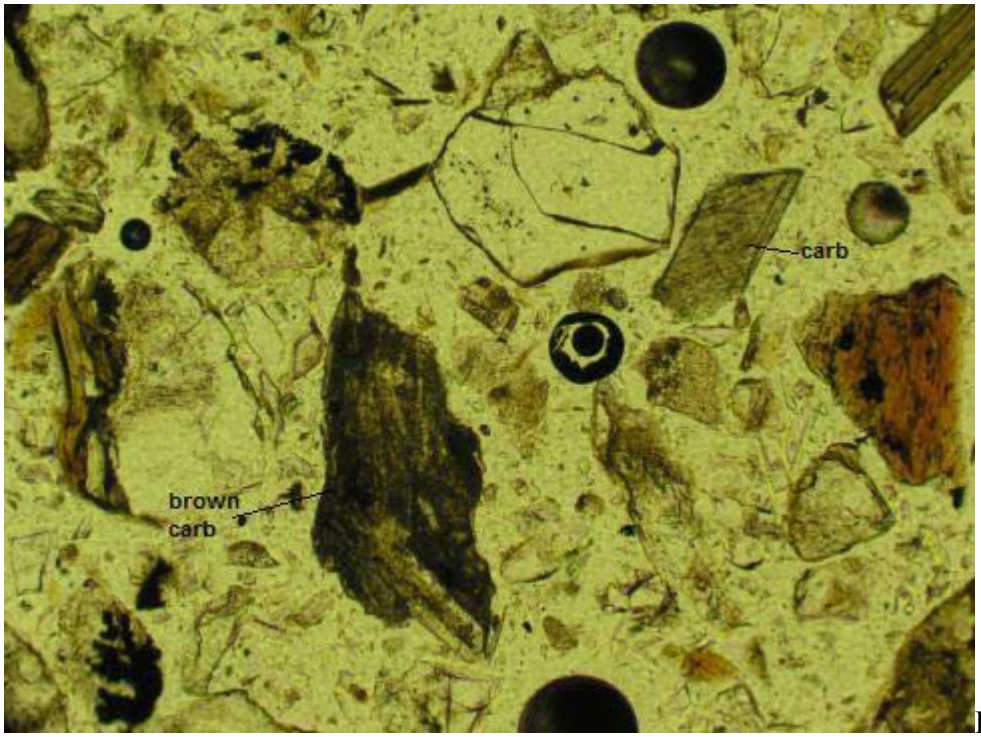


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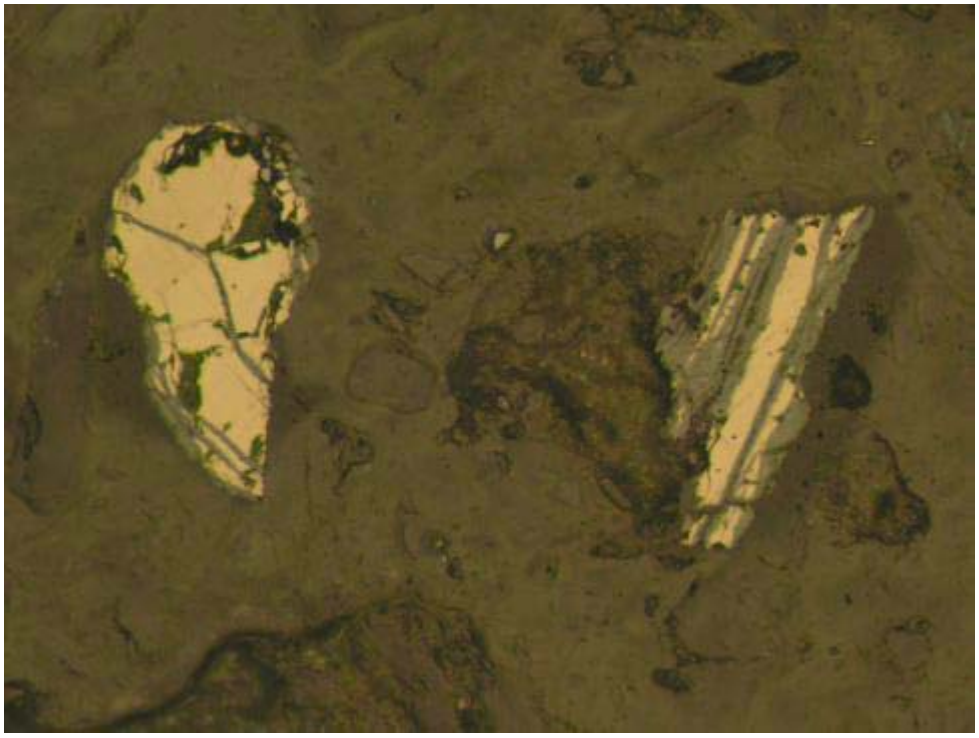


D

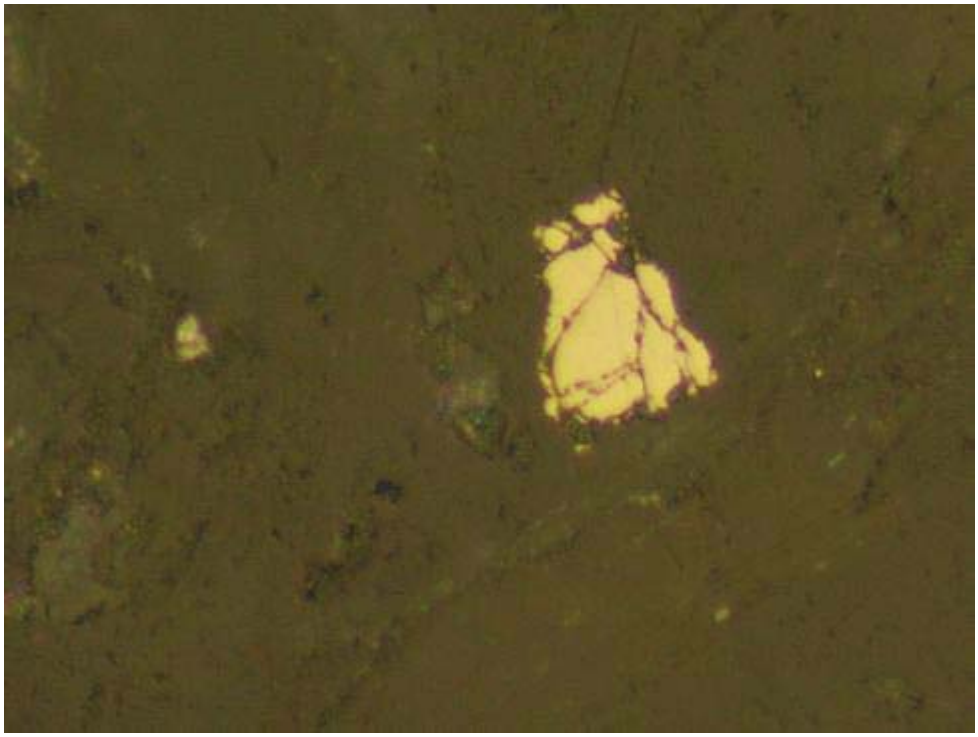
42479: C) Carbonate vein fragment. XPL, FOV =~ 2.6 mm. D) Colourless carbonate fragment partly rimmed by red-brown Fe-oxide/oxyhydroxide aggregate. XPL, FOV =~ 0.7 mm.



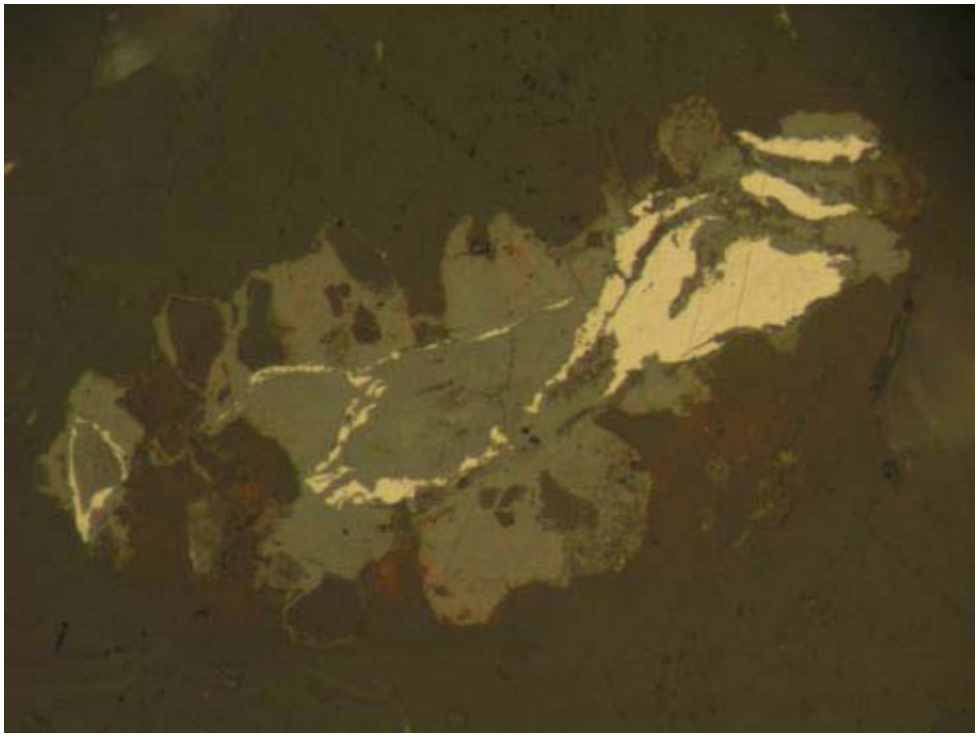
E


F

42479: E) Aggegate of brown carbonate (left) and grain of colourless carbonate (right). PPL, FOV =~ 1.3 mm. F) Grains of pyrrhotite rimmed and partly replaced along partings by Fe-ox. RL, FOV =~ 0.3 mm.

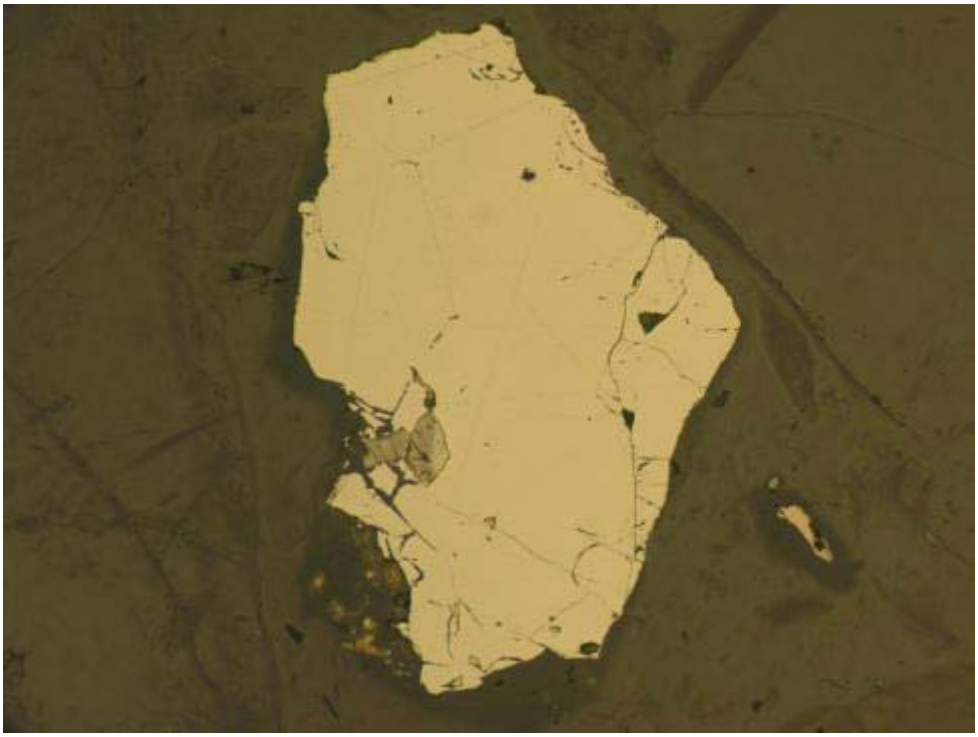


G



H

42479: G) Grain of fractured pyrite with irregular pitted grain boundaries. RL, FOV =~ 0.2 mm. H) Aggregate of ?arsenopyrite strongly replaced by red-brown Fe-oxide/oxyhydroxide. RL, FOV =~ 0.2 mm.


I

42479: I) Large grain of liberated arsenopyrite with irregular grain boundaries. Absence of secondary coating. Enclosed pyrrhotite aggregate partly replaced by marcasite. RL, FOV =~ 0.7 mm.

Statement of qualifications: Kathryn P.E. Dunne

I, Kathryn P.E. Dunne, of the City of Salmon Arm, province of British Columbia, do hereby certify that:

1. I am an independent consulting geologist, with a business office at 4610 Lakeshore Road NE, Salmon Arm, B.C., Canada. My business mailing address is: Bag 9000, # 207, 190B Trans Can Hwy NE, Salmon Arm, BC, V1E 1S3.

2. I am a graduate in geology, with a BSc in geology from The University of British Columbia (1985).

3. I received my Masters degree in geology from The University of British Columbia, Vancouver, B.C. in 1988.

4. I am a registered member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia (No. 18674).

5. I am a fellow of the Geological Association of Canada and a member of the Society of Economic Geologists.

6. I have practiced my profession as a geologist for approximately 20 years: 4 years as geologist with the British Columbia Geological Survey Branch, 3 years as research coordinator at the Mineral Deposit Research Unit housed within the Department of Earth and Ocean Sciences at the University of British Columbia, and 13 years as an independent consultant.

7. The petrographic data of this report was collected by me in February 2010.

……..……

Kathryn P.E. Dunne, M.Sc., P.Geo.
Consulting Geologist
February 17, 2010

Appendix F2: Petrographic Reports for Humidity Cell 12

PETROGRAPHIC REPORT ON 1 SAMPLE (09102 Eagle Gold)

Report for: Rik Vos/Carolyn Jones
SGS CEMI Inc.
6927 Antrim Avenue
Burnaby, B.C. V5J 4M5 (604)264-5536

Invoice 120973
P.O. # 42605

Nov. 14, 2012.

SUMMARY:

Capsule description is as follows:

Sample 1: this appears to represent strongly phyllic/potassic (quartz-Kspar-sericite-carbonate-chlorite-minor pyrite-rutile-sphene-apatite-trace sphalerite-scheelite?) altered, locally quartz-Kspar-muscovite-pyrite veined, felsic (granodiorite?) intrusive.

Detailed petrographic description and photomicrographs are appended (by email attachment). If you have any questions regarding the petrography, please do not hesitate to contact me.

Craig H.B. Leitch, Ph.D., P. Eng. (250) 653-9158 dromore61@gmail.com
492 Isabella Point Road, Salt Spring Island, B.C. Canada V8K 1V4

Sample 1: PHYLLIC/POTASSIC (QUARTZ-KSPAR-SERICITE-CARBONATE-CHLORITE-MINOR PYRITE-RUTILE/SPHENE-APATITE±SPHALERITE) ALTERED, QUARTZ-KSPAR-MUSCOVITE-PYRITE VEINED, BIOTITE-HORNBLENDE GRANODIORITE (?)

Sample consists of small angular chips (up to about 1.2 cm in diameter) of pale grey, possibly felsic intrusive rock. The rock chips are locally weakly magnetic, shows fairly vigorous reaction to cold dilute HCl, and common yellow stain for K-feldspar in the etched offcut. Modal mineralogy in polished thin section is approximately:

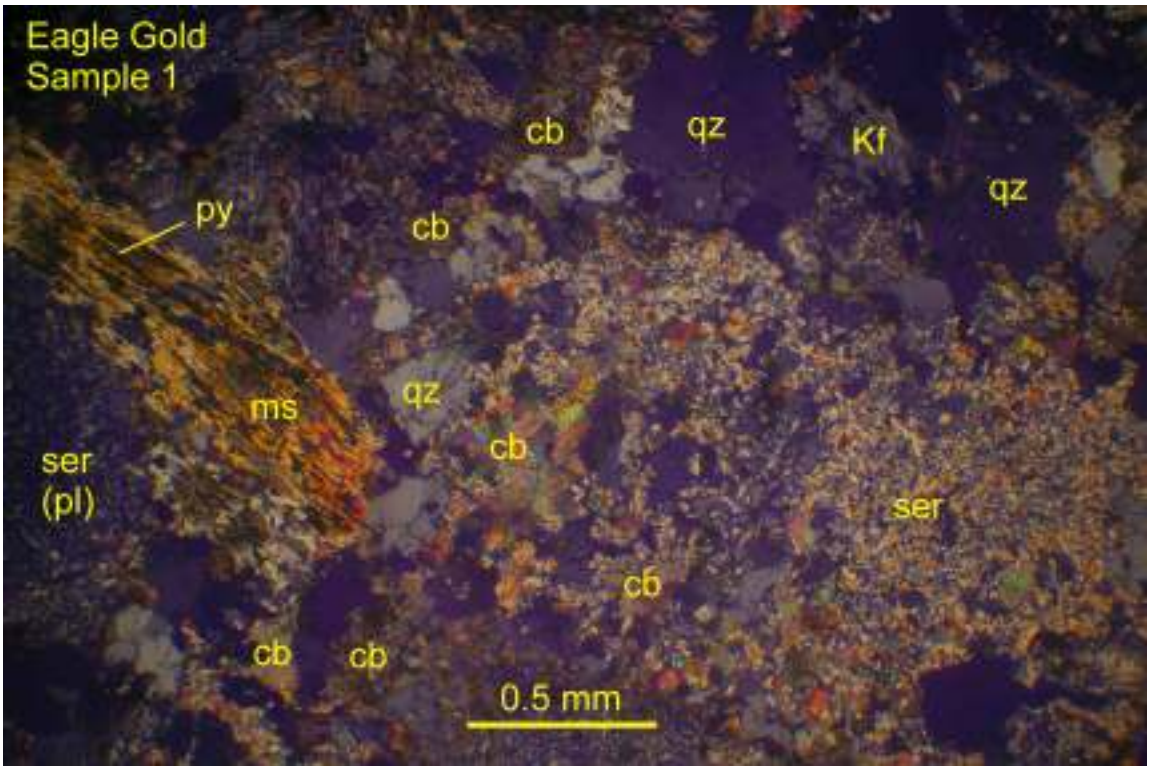
Quartz (partly primary, partly secondary?)	30%
K-feldspar (partly secondary?)	25%
Plagioclase (sericitized, oligoclase?)	15%
Sericite, muscovite (after plagioclase and biotite?)	15%
Carbonate (calcite and dolomite?)	7%
Biotite (partly altered to chlorite)	5%
Chlorite (after biotite)	1-2%
Pyrite	1-2%
Amphibole (relict, hornblende?)	<1%
Rutile, sphene	<1%
Apatite	<1%
Sphalerite, possible trace scheelite?	<<1%

Most of the chips in this sample are of felsic intrusive rock variably, mostly strongly, altered to quartz-Kspar-sericite/muscovite-carbonate, with chloritization of biotite, minor pyrite, rutile, apatite and traces of sphalerite and possible scheelite. A few chips could be described as quartz-Kspar veins.

The intrusive rock chips consist mainly of interlocking quartz, relict (sericitized) plagioclase, interstitial Kspar and relict (partly chloritized) biotite or sericite-carbonate-chlorite altered amphibole. Plagioclase may have originally made up about 40% of the rock as interlocking randomly oriented sub- to euhedral crystals up to about 2.5 mm long 30-70% replaced by sericite as randomly oriented, sub/euhedral flakes mostly <50 um but up to 0.1 mm, locally mixed with a little carbonate as ragged sub/anhedra mostly <0.15 mm (likely mostly calcite?). Lack of relief difference between remnant plagioclase and adjacent quartz suggests a composition near oligoclase; interstitial Kspar is mostly <0.5 mm. Quartz forms rounded subhedral crystals up to about 1.5 mm in diameter which may be difficult to tell apart from vein quartz of similar size; most quartz shows mild to moderate strain, indicated by undulose extinction, minor sub-grain development and suturing of grain boundaries, and are somewhat fractured. Former mafic minerals may have included both biotite (ragged sub/euhedral flakes to 1.5 mm with pale/medium brown pleochroism, locally partly replaced/interleaved by chlorite as euhedral flakes <0.5 mm with very pale green pleochroism and near-zero birefringence suggestive of Fe:Fe+Mg, or F:M ratio around 0.5?) and amphibole (lath-like sub/euhedral relics up to ~2 mm long with pale green pleochroism and extinction angle around 20º, likely hornblende, largely replaced by sericite as subhedral flakes to 0.5 mm interleaved with chlorite of similar size, both parallel to the length of the crystal, and variable pyrite (ragged sub/euhedra to 0.5 mm) plus variable carbonate as sub/anhedra mostly <0.7 mm (possibly dolomite?) associated with accessory sphene (subhedra to 0.1 mm) or rutile (dark brown euhedra to 0.2 mm) plus apatite (euhedral prisms up to 0.3 mm long), rare sphalerite as red-brown (moderate/high Fe) fragments to 0.2 mm. It is not clear how rare subhedral fragments of scheelite (?) <0.1 mm are related to the mafic sites or veins.

Possible vein fragments up to ~3 mm thick consist of interlocking quartz (subhedra to 2 mm) and Kspar (subhedra mostly <1.5 mm but in aggregates up to almost 1 cm long), or locally quartz and sericite/muscovite as subhedral flakes to ~0.75 mm, likely after former biotite, and local carbonate as interlocking subhedra to 0.7 mm with distinct brown colour (possibly dolomite?). Sulfide (mainly pyrite) is commonly but not everywhere in direct contact with the carbonate.

In summary, this appears to represent strongly phyllic/potassic (quartz-Kspar-sericite-carbonate-chlorite-minor pyrite-rutile-sphene-apatite-trace sphalerite-scheelite?) altered, locally quartz-Kspar-muscovite-pyrite veined, felsic (granodiorite?) intrusive.



Sample 1:Strongly altered felsic intrusive rock composed of quartz (qz), relict plagioclase sites pseudomorphed by sericite (ser) and mafic sites by muscovite (ms) and carbonate (cb), local minor pyrite (opaque; not actually touching carbonate in this case). Minor Kspar is interstitial. Transmitted light, crossed polars, field of view 3.0 mm wide.



Overview of thin sections and offcuts (blue semi-circles mark photomicrograph locations).

Appendix F3: Petrographic Reports for Humidity Cell 13

Petrography Report
PT-200

CHARACTERIZATION OF ROCK CHIPS, EAGLE GOLD PROJECT

Nov. 12, 2012

SGS-CEMI Project #:
09102 Eagle Gold

Prepared for:
Rik Vos
SGS CEMI Inc.
6927 Antrim Avenue
Burnaby, BC
Canada V5J 4M5

Prepared by:
Kathryn Dunne, M.Sc. P.Geo.
Consulting Geologist
Bag 9000, # 207
190B Trans Can Hwy NE
Salmon Arm, BC
Canada V1E 1S3

phone: 250-804-0729
kgeo@telus.net

Background

One crushed rock sample from the Eagle Gold Project is characterized in this report (SGS CEMI Project No. 09102). Optical reporting was requested by Rik Vos of SGS CEMI Inc. The sample was submitted for polished thin section production at Vancouver Petrographics Ltd. on Aug. 1, 2012. The sample and polished thin section were then sent to Kathryn Dunne, P.Geo. for optical analysis. The purpose of the optical study was to characterize the mineralogy with particular emphasis on sulphide minerals and any carbonate minerals present.

The optical observations are summarized below and petrographic descriptions of polished thin sections with representative photomicrographs follow the summary. All percentages in the descriptions are approximate based on visual estimation.

Please note the following grain size conventions are used in the report: very fine-grained (< 50 µm), fine-grained (> 50 µm and less than 1 mm), medium-grained (> 1mm and < 5 mm) and coarse-grained (> 5mm).

Definition of terms

Please note that the term "Fe-ox" is used in this report for iron-oxides, -hydroxides, -oxyhydroxides, hydroxy-sulphate and/or oxyhydroxy-sulphate minerals. The term "rutile" is used in this report for very fine-grained Ti-oxides which may also include leucoxene and anatase. The term "sericite" is used in this report as a fine to very fine-grained colourless mica, either muscovite or illite.

Tabular summary (SGS CEMI Project No. 09102)

Sample #	**Sulphide**	**% ~**	**Carbonate occurrence**	**% ~**	**Fe-ox**	**% ~**	**Other > 1%**	**% ~**
11BGC-GTH10 Int 146.1-156.67	pyrrhotite pyrite arsenopyrite chalcopyrite marcasite	1 tr r. r. r.	colourless to cloudy, fine to medium, anhedral grains and aggregate	tr	ilmenite red-brown Fe-ox	1 r.	quartz biotite feldspar muscovite sericite andalusite chlorite	45 20 15 10 5 1 1

tr = trace (< 1%); r. = rare; x = none observed; fine-grained = > 0.05 mm and < 1 mm; very fine-grained = < 0.05 mm;

SGS-CEMI Project #: 09102
Sample ID: 11BCG-GTH10 Int. 146.1-156.67



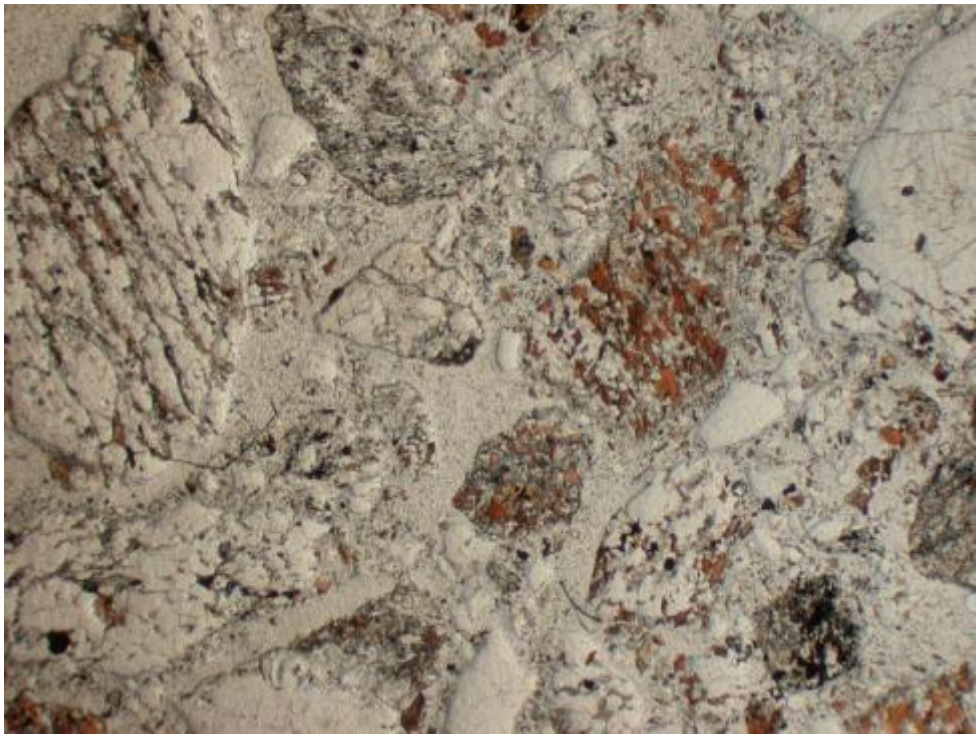
Chip Description:
Fine to medium angular chips (less than 3 mm size) and medium-grey powder. Chips comprise aphanitic grayish-black rock and translucent quartz vein fragments. Weak reaction of some fragments to cold dilute HCl. No reaction of chips to magnet. Stained offcut mount not available.

Polished Thin Section Description:
Fine to coarse chips of dominantly biotite-quartz±andalusite hornfels, lesser muscovite-biotite schist, a variety of quartz vein fragments and traces of carbonate-bearing rock fragments. Biotite-quartz±andalusite hornfels chips comprise dominantly fine to very fine-grained red-brown biotite, quartz, locally fine-grained ragged andalusite or radiating sillimanite aggregate, minor ilmenite and patchy pyrrhotite. Muscovite-biotite schist includes fine muscovite (~10%), biotite, quartz, feldspar, ilmenite bands, rutile and locally chlorite aggregate. Very fine sericite (~ 5%)occurs in major amounts as replacement of biotite within hornfels or schist fragments. Biotite comprises approximately 20% of the section; andalusite comprises approximately 1% of the section. Feldspar, ~15%, is partly replaced by sericite aggregate. Carbonate-bearing rock fragments comprise fine quartz, altered feldspar and carbonate aggregate.

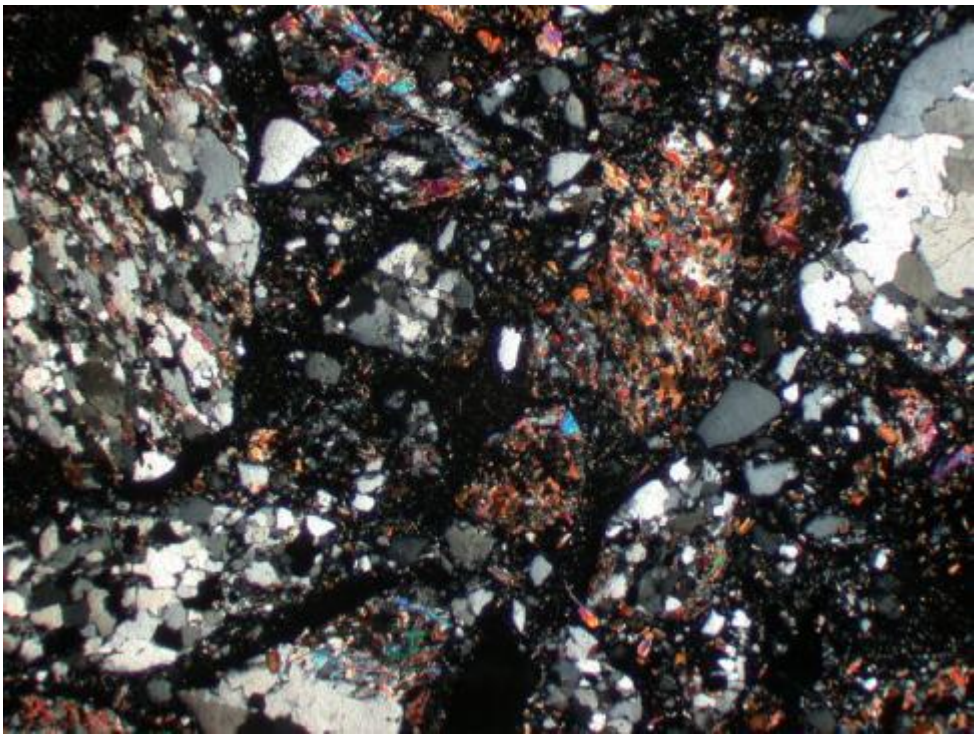
Carbonate occurs in trace amounts as fine to medium-grained (< 2 mm) colourless and cloudy aggregates within rock fragments or as fine-grained liberated grains or aggregate. Some carbonate is partly replaced by very fine-grained red-brown Fe-ox aggregate.

Sulphide occurs in minor amounts, approximately 1%, mainly as pyrrhotite with traces of pyrite and rare chalcopyrite, arsenopyrite and marcasite. Pyrrhotite, approximately 1%, occurs as fine-grained (< 0.2 mm) anhedral grains and aggregates within biotite-quartz±andalusite hornfels, quartz veins and rarely as liberated grains. Pyrrhotite grain boundaries are irregular and unaltered. Trace pyrite occurs typically as liberated fine to very fine-grained (< 0.4 mm), sub-anhedral grains and rarely within quartz vein or sericite altered rock chips. Pyrite grains are locally pitted and fractured. Some pyrite grain boundaries are irregular. A few liberated pyrite grains are rimmed and partly replaced by red-brown Fe-ox aggregates. Rare traces of fine (< 0.2 mm) to very fine chalcopyrite occur as inclusions in pyrrhotite or within rock fragments. Rarely, arsenopyrite occurs disseminated in carbonate-bearing rock fragments or as liberated anhedral grains. Rarely, marcasite occurs as liberated very fine aggregates.

Rarely, red-brown very fine-grained Fe-ox aggregates occurs as replacement of pyrite and carbonate. Rarely, red-brown Fe-ox aggregate stains sericite aggregate adjacent to pyrite.

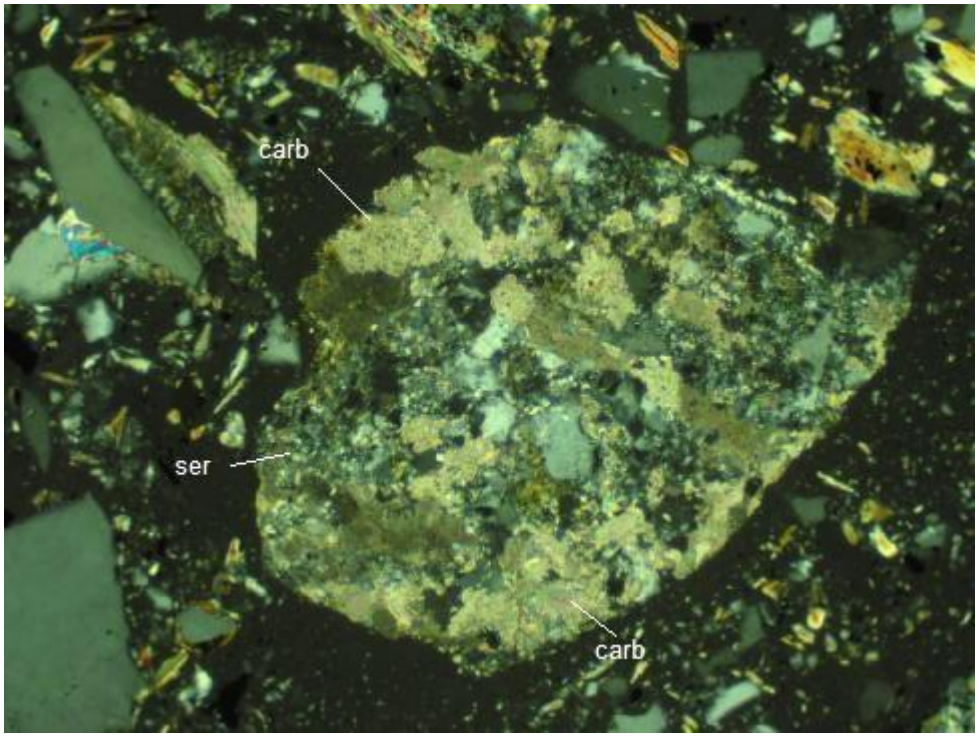


A

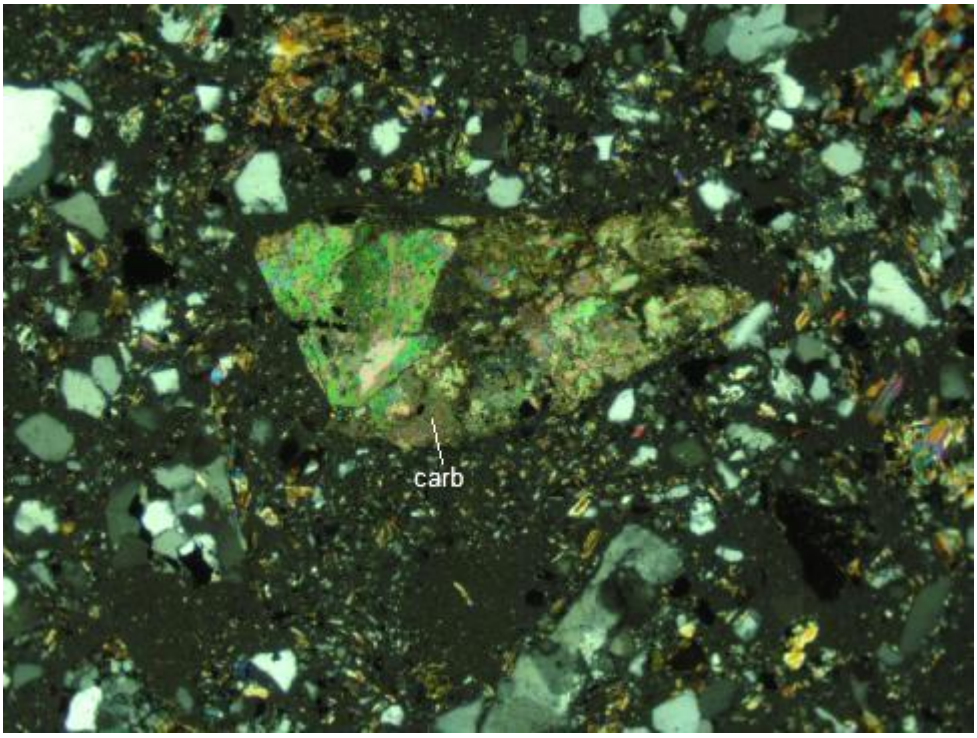


B

11BCG-GTH10 Int. 146.1-156.67: Representative chips of biotite-quartz hornfels, muscovite-biotite schist alteration and quartz vein fragments. A) PPL, B) XPL, FOV =~ 4.5 mm.

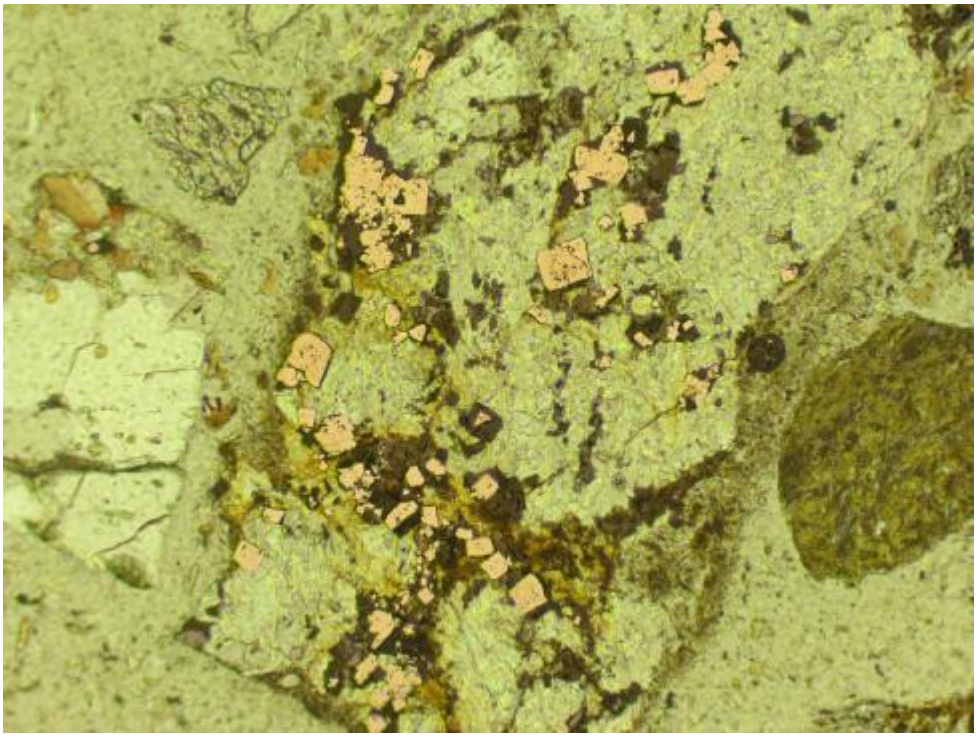


C

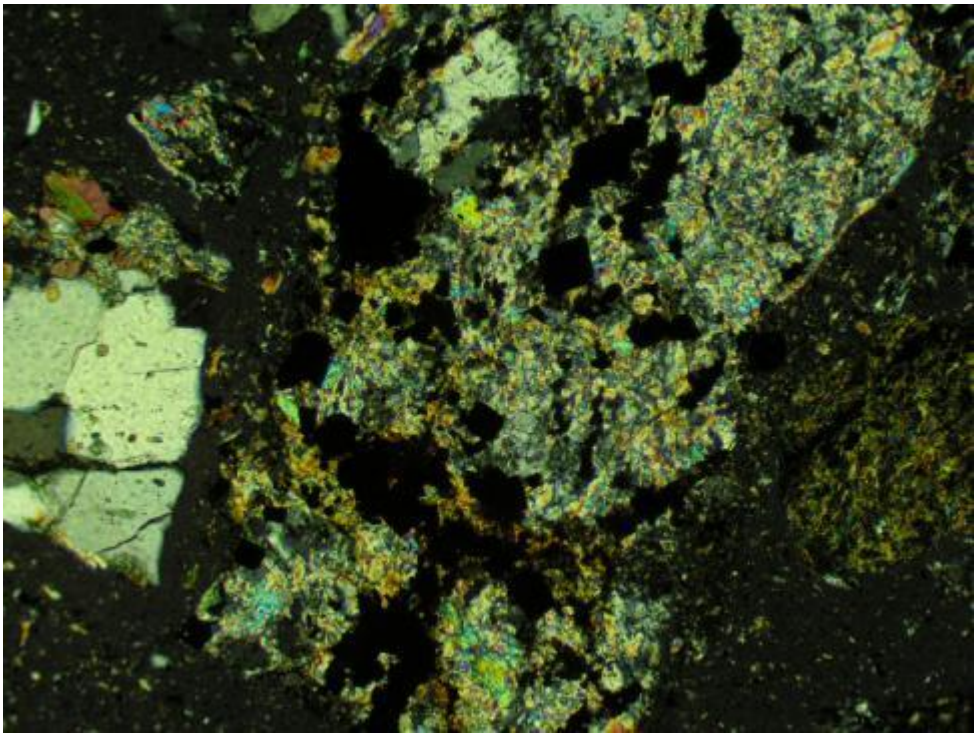


D

11BCG-GTH10 Int. 146.1-156.67: C) Carbonate-bearing rock fragment comprising fine quartz, sericite-altered feldspar and carbonate aggregate. XPL, FOV =~ 1.3 mm. D) Liberated carbonate aggregate. XPL, FOV = 2.6 mm.

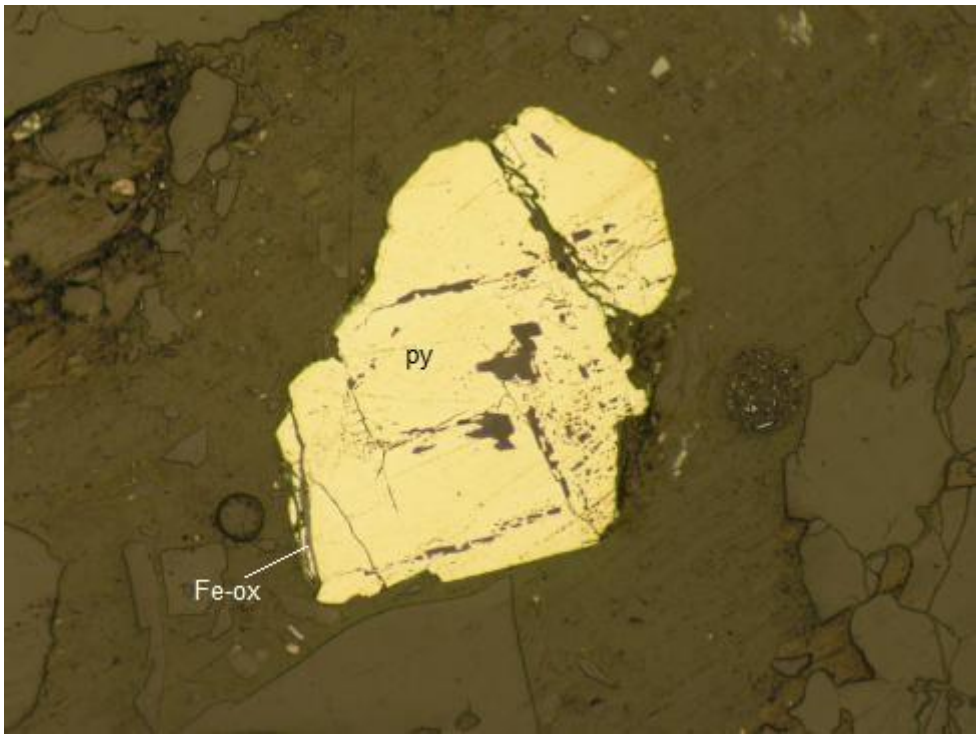


E

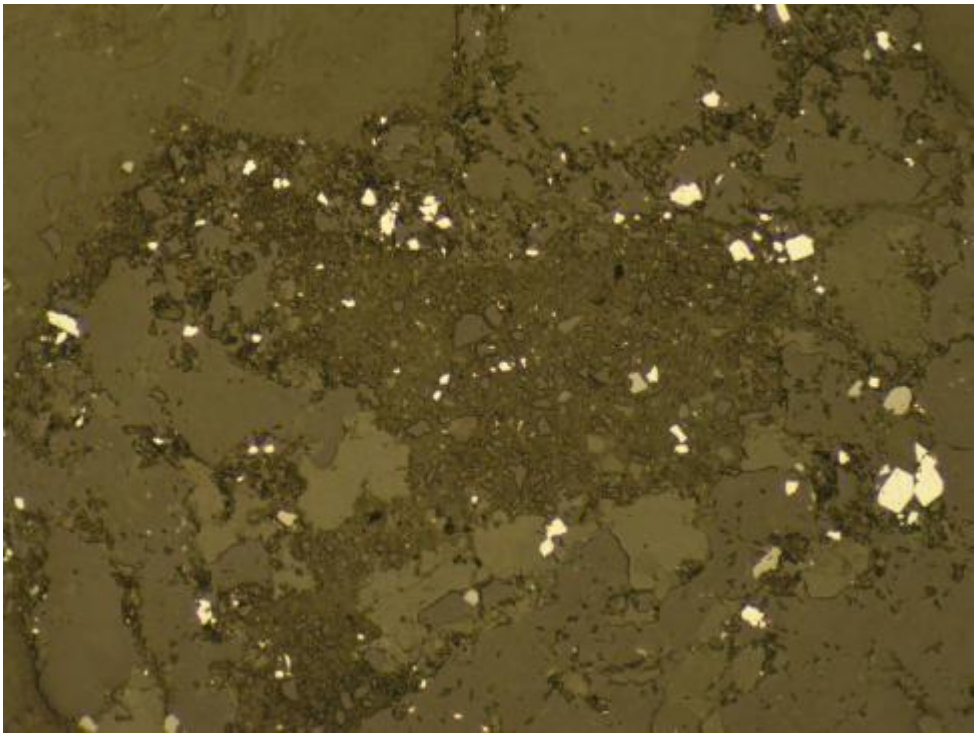


F

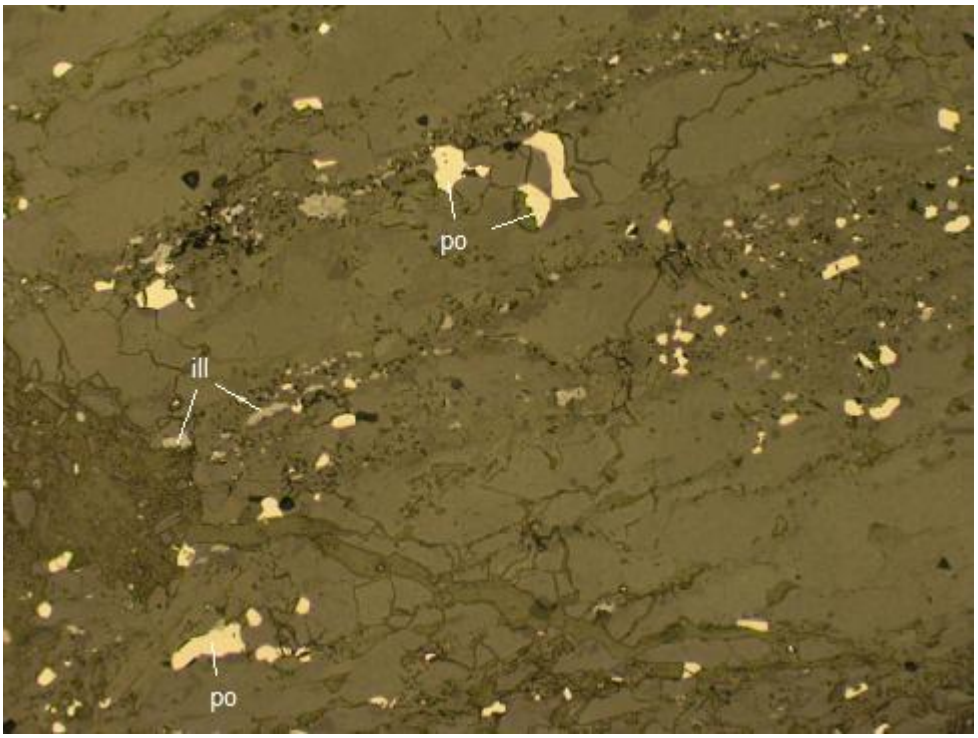
11BCG-GTH10 Int. 146.1-156.67: E&F) Sericite aggregate stained red-brown by Fe-ox aggregate adjacent to disseminated pyrite in rock fragment. E) PPL+RL, F) XPL, FOV = ~ 1.3 mm



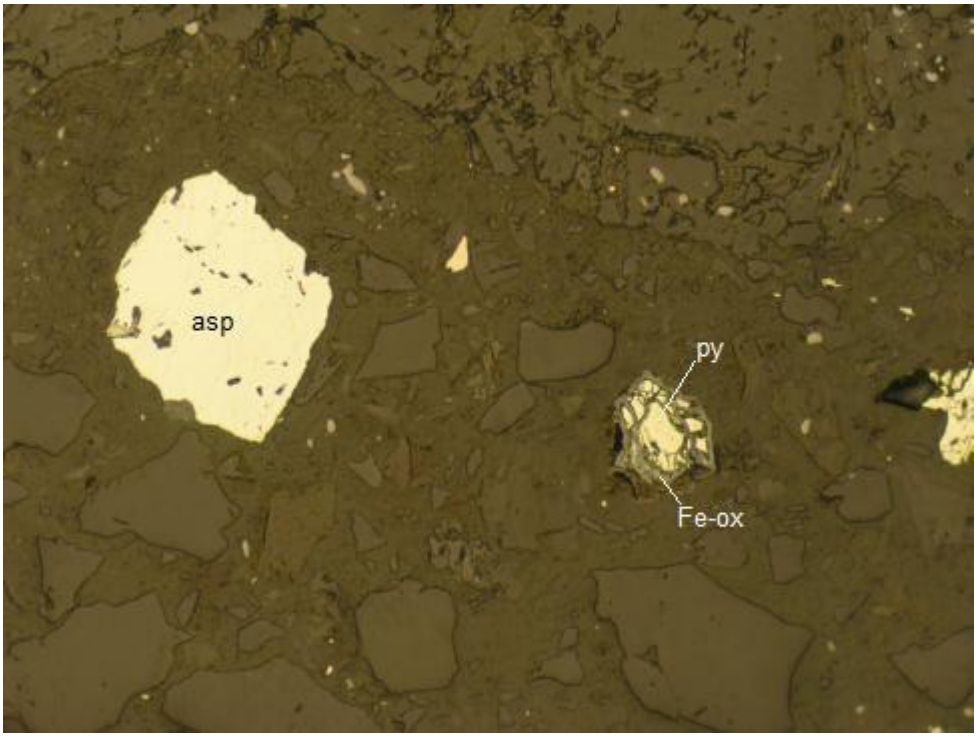
G


H

11BCG-GTH10 Int. 146.1-156.67: G) Pyrite grain partly replaced along fractures by red-brown Fe-ox aggregate. RL, FOV = ~ 0.7 mm. H) Disseminated arsenopyrite grains (white) within carbonate-bearing fragment. RL, FOV = ~ 0.7 mm.



I



J

11BCG-GTH10 Int. 146.1-156.67: I) Typical distribution of pyrrhotite and ilmenite within biotite quartz hornfels. RL, FOV =~ 1.3 mm. J) Liberated arsenopyrite grain (left); liberated pyrite fractured and partly replaced by Fe-ox aggregate. RL, FOV =~ 0.7 mm.

Statement of qualifications: Kathryn P.E. Dunne

I, Kathryn P.E. Dunne, of the City of Salmon Arm, province of British Columbia, do hereby certify that:

1. I am an independent consulting geologist, with a business office at 4610 Lakeshore Road NE, Salmon Arm, B.C., Canada. My business mailing address is: Bag 9000, # 207, 190B Trans Can Hwy NE, Salmon Arm, BC, V1E 1S3.

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6. I have practiced my profession as a geologist for approximately 20 years: 4 years as geologist with the British Columbia Geological Survey Branch, 3 years as research coordinator at the Mineral Deposit Research Unit housed within the Department of Earth and Ocean Sciences at the University of British Columbia, and 13 years as an independent consultant.

7. The petrographic data of this report was collected by me in November 2012.

……..……

Kathryn P.E. Dunne, M.Sc., P.Geo.
Consulting Geologist
November 12, 2012

Appendix G: Static Program Laboratory Results

Appendix G1: Whole Rock Analysis by XRF

Appendix G1 - Summary of Whole Rock Analysis by XRF

	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	L %	TOTAL %	Ba ppm	Rb ppm	Sr ppm	Nb ppm	Zr ppm	Y ppm
Granodiorite A (n = 170)																			
Mean	14.0	2.5	0.009	3.7	4.7	1.2	0.04	1.7	0.1	68.2	0.5	2.7	99.4	1660.0	188.8	377.1	10.0	192.0	13.2
Minimum	4.7	0.1	0.005	1.31	1.32	0.2	0.01	0.005	0.01	52.8	0.2	0.66	98.1	1460	170	220	10	160	10
Maximum	24.8	4.9	0.04	7.46	6.24	3.35	0.11	2.53	0.22	89.0	0.94	5.97	100.2	1960	210	580	10	230	20
Granodiorite B (n = 20)																			
Mean	13.9	3.2	0.023	3.7	4.8	1.4	0.03	2.1	0.1	66.6	0.5	2.7	99.1	1541.1	179.5	411.1	10.0	179.5	11.1
Minimum	12.6	2.4	0.005	2.95	4.31	1.03	0.02	1.71	0.09	62.5	0.43	1.36	98.6	1280	160	360	10	150	10
Maximum	14.9	4.1	0.06	4.52	5.47	1.92	0.05	2.46	0.15	70.5	0.59	5.18	99.4	1760	200	480	10	200	20
Granodiorite C (n = 34)																			
Mean	13.6	3.0	0.024	3.7	4.7	1.3	0.04	1.5	0.1	66.8	0.5	3.8	99.1	1428.2	181.8	328.2	10.6	180.3	10.9
Minimum	12.3	0.3	0.01	2.12	4.07	0.56	0.01	0.02	0.09	61.9	0.27	1.54	98.5	700	160	70	10	110	10
Maximum	14.8	5.0	0.04	5.51	5.47	1.84	0.24	2.31	0.14	74.7	0.57	8.32	99.4	1780	210	450	30	210	20
Metasediment B (n = 62)																			
Mean	14.0	1.1	0.018	4.3	3.9	1.2	0.04	1.1	0.1	70.4	0.6	2.4	99.3	885.8	169.5	123.4	7.4	190.5	18.2
Minimum	4.7	0.1	0.005	1.31	1.27	0.2	0.01	0.005	0.01	49.5	0.21	0.66	98.1	260	50	20	-10	130	10
Maximum	25.9	4.8	0.08	7.69	6.24	3.21	0.1	2.33	0.22	89.0	1.06	4.87	100.1	1680	250	300	20	250	30

Appendix G1 - Whole Rock Analysis by XRF

Sample #	Drillhole ID	From_ft	To_ft	Rock Type	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	L	TOTAL	Ba	Rb	Sr	Nb	Zr	Y
Units					XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	%	%	ppm	ppm	ppm	ppm	ppm	ppm
1055	DG 95-80-R	280	285	Granodiorite (C)	13.62	3.48	0.04	4.32	4.32	1.3	0.18	0.02	0.13	64.76	0.52	6.37	99.06	700	170	120	10	180	10
1056	DG 95-80-R	285	290	Granodiorite (C)	13.48	3.81	0.03	3.36	4.23	1.29	0.24	0.02	0.13	65.43	0.51	6.66	99.19	820	180	110	10	190	10
1063	DG 95-80-R	315	320	Granodiorite (C)	13.14	1.95	0.04	5.51	4.3	1.14	0.06	0.13	0.13	66.73	0.5	5.15	98.78	780	170	130	10	190	10
1128	DG 95-80-R	625	630	Granodiorite (C)	14.23	2.97	0.04	4.08	4.82	1.7	0.04	1.02	0.13	64.01	0.54	5.51	99.09	1580	180	410	10	190	10
1178	DG 95-81-R	105	110	Granodiorite (C)	13.46	3.44	0.01	3.45	4.44	1.25	0.02	1.75	0.14	66.89	0.52	3.86	99.23	1520	180	330	10	190	10
1259	DG 95-81-R	490	495	Granodiorite (C)	12.36	2.94	0.02	3.61	4.15	1.36	0.03	1.54	0.12	69.78	0.47	2.79	99.17	1340	210	410	10	190	10
1375	DG 95-83-R	295	300	Granodiorite (C)	13.26	2.81	0.02	2.84	5.07	0.91	0.02	2.16	0.11	67.87	0.38	3.63	99.08	1480	170	420	10	180	10
1386	DG 95-83-R	345	350	Granodiorite (C)	13.29	2.8	0.02	3.38	5.16	1.25	0.02	2.05	0.12	67.16	0.49	3.31	99.05	1700	180	390	10	170	10
1467	DG 95-84-R	590	595	Granodiorite (C)	13.44	2.51	0.03	3.44	5.25	1.38	0.03	1.81	0.13	67.18	0.51	3.08	98.79	1560	190	350	10	180	10
1477	DG 95-84-R	635	640	Granodiorite (C)	14.25	3.47	0.03	3.78	5.37	1.56	0.02	2.31	0.13	64.97	0.54	2.65	99.08	1740	190	450	10	190	10
1519	DG 95-85-R	525	530	Granodiorite (C)	12.54	2.45	0.03	4.7	4.07	1.05	0.07	0.93	0.11	69.43	0.44	3.47	99.29	820	160	160	10	170	10
1647	DG 95-87-R	305	310	Granodiorite (C)	12.34	2.02	0.02	3.15	4.54	1.09	0.02	1.75	0.1	72.21	0.44	1.62	99.3	1460	160	310	10	160	10
1675	DG 95-87-R	440	445	Granodiorite (C)	12.42	2.41	0.02	3.42	4.88	0.96	0.02	1.38	0.11	69.41	0.43	3.68	99.14	1500	170	280	10	170	10
51855	DG 95-82-R	525	530	Granodiorite (C)	12.79	5.04	0.04	3.4	4.15	1.2	0.11	0.6	0.14	64.98	0.52	6.32	99.29	900	170	280	10	180	10
51865	DG 95-82-R	575	580	Granodiorite (C)	14.31	3.73	0.03	3.8	5.47	1.37	0.04	1.32	0.14	62.81	0.56	5.51	99.09	1640	190	340	10	200	10
51902	DG 95-82-R	750	755	Granodiorite (C)	14.01	3.57	0.04	3.79	4.86	1.53	0.03	1.5	0.13	63.37	0.54	5.14	98.51	1360	170	360	10	160	10
51965	DG 95-84-R	60	65	Granodiorite (C)	13.96	2.82	0.04	3.84	4.58	1.56	0.02	2.01	0.13	65.97	0.57	3.63	99.13	1780	180	400	10	190	10
52008	DG 95-84-R	260	265	Granodiorite (C)	14.13	3.56	0.03	3.96	4.51	1.84	0.04	2.17	0.14	65.09	0.53	3.17	99.17	1520	170	450	10	160	10
52288	DG 95-88-R	200	205	Granodiorite (C)	14.37	3.25	0.02	3.56	5.09	1.39	0.03	1.99	0.14	64.7	0.52	4.07	99.13	1620	190	370	10	180	10
52316	DG 95-88-R	330	335	Granodiorite (C)	13.74	2.8	0.02	3.27	5.36	1.3	0.02	2.07	0.11	67.02	0.48	2.95	99.14	1540	190	360	10	190	10
52721	DG 95-90-R	580	585	Granodiorite (C)	14.1	3.44	0.01	3.59	4.74	1.26	0.04	1.81	0.12	66	0.54	2.85	98.5	1580	190	380	10	180	20
52972	DG 95-92-R	180	185	Granodiorite (C)	13.1	2.67	0.01	3.42	4.86	1.17	0.03	1.83	0.11	69.54	0.48	1.92	99.14	1480	180	340	10	180	10
53208	DG 95-92-R	580	585	Granodiorite (C)	13.81	3.11	0.01	3.63	4.63	1.32	0.03	2.08	0.12	66.76	0.52	3.02	99.04	1780	180	390	10	170	10
70842	DG 95-133-R	285	290	Granodiorite (C)	12.47	2.49	0.01	3.71	5.11	1	0.03	1.32	0.11	68.59	0.47	3.69	99	1280	180	230	10	180	10
70981	DG 95-134-R	565	570	Granodiorite (C)	14.46	2.88	0.01	3.79	4.82	1.35	0.02	2.18	0.1	67.49	0.52	1.54	99.16	1480	180	400	10	180	10
71019	DG 95-134-R	755	760	Granodiorite (C)	13.14	2.38	0.02	3.56	5.02	1.18	0.02	1.44	0.11	68.76	0.5	3.19	99.32	1660	190	310	10	180	10
75673	DG 95-97-R	315	320	Granodiorite (C)	14.25	3.23	0.01	3.75	4.63	1.13	0.03	2.21	0.13	65.51	0.53	3.62	99.03	1520	180	340	10	200	10
75735	DG 95-97-R	610	615	Granodiorite (C)	13.91	2.65	0.01	3.54	5.1	1.57	0.02	2.06	0.12	66.85	0.5	2.96	99.29	1700	200	440	10	180	10
75860	DG 95-98-R	470	475	Granodiorite (C)	13.85	3.06	0.04	3.59	5.02	1.46	0.02	1.45	0.13	65.22	0.53	5.04	99.41	1700	190	360	10	180	20
76908	DG 95-116-R	60	65	Granodiorite (C)	14.77	3.14	0.03	4.46	4.79	1.43	0.04	2.26	0.13	65.47	0.54	2.03	99.09	1640	190	420	10	200	10
76983	DG 95-116-R	415	420	Granodiorite (C)	13.44	3.17	0.02	3.29	4.14	1.2	0.01	2	0.12	67.2	0.48	4.13	99.2	1240	180	340	10	190	10
77034	DG 95-117-R	165	170	Granodiorite (C)	14.11	3.53	0.02	3.74	4.58	1.18	0.05	0.42	0.13	61.91	0.57	8.32	98.56	1320	170	280	10	210	20
77253	DG 95-119-R	390	395	Granodiorite (C)	12.79	0.33	0.01	2.12	4.62	0.56	0.02	0.06	0.09	74.72	0.27	3.55	99.14	1160	200	70	30	110	10
77317	DG 95-119-R	695	700	Granodiorite (C)	14.67	3.2	0.02	4.31	4.68	1.45	0.03	2.2	0.12	66.16	0.53	1.59	98.96	1660	200	430	10	180	10
1001	DG 95-80-R	20	25	Granodiorite (A)	14.93	3.25	0.03	4	4.54	1.62	0.03	2.23	0.13	65.81	0.59	1.78	98.94	1680	170	420	10	190	10
1031	DG 95-80-R	165	170	Granodiorite (A)	14.23	3.04	0.04	3.93	4.7	1.68	0.04	1.56	0.13	64.96	0.54	4.59	99.44	1660	180	330	10	190	10
1044	DG 95-80-R	225	230	Granodiorite (A)	14.43	3.04	0.03	4.12	5.11	1.36	0.05	0.55	0.14	64.29	0.56	5.79	99.47	1620	190	230	10	190	10
1172	DG 95-81-R	75	80	Granodiorite (A)	14.88	2.85	0.01	3.83	4.8	1.5	0.02	2.19	0.13	66.5	0.58	1.79	99.08	1700	180	430	10	210	10
1213	DG 95-81-R	270	275	Granodiorite (A)	13.37	2.05	0.02	2.93	5.59	1.31	0.01	1.7	0.12	69.9	0.5	1.53	99.03	1560	190	330	10	180	10
1491	DG 95-85-R	390	395	Granodiorite (A)	12.1	4.74	0.01	2.93	4.94	1.04	0.02	1.57	0.1	66.52	0.42	4.73	99.12	1500	170	350	10	160	10
1644	DG 95-87-R	290	295	Granodiorite (A)	13.98	2.49	0.02	3.27	5.32	1.35	0.02	2.09	0.13	67.7	0.51	2.26	99.14	1680	190	370	10	180	10
1662	DG 95-87-R	375	380	Granodiorite (A)	14.52	2.42	0.03	3.5	5.02	1.11	0.08	2.19	0.12	67.62	0.53	2.05	99.19	1520	190	330	10	190	10
51511	DG 95-93-R	150	155	Granodiorite (A)	14.33	4.43	0.01	4.86	4.55	2.18	0.04	1.95	0.15	62.23	0.63	3.75	99.11	1460	190	460	10	190	20
51584	DG 95-93-R	495	500	Granodiorite (A)	12.93	3.24	0.01	3.57	4.96	1.33	0.03	1.78	0.12	67.31	0.53	2.76	98.57	1700	170	390	10	180	10
51979	DG 95-84-R	120	125	Granodiorite (A)	14.46	3.39	0.03	3.46	5.37	1.62	0.04	1.63	0.14	64.07	0.54	4.38	99.13	1720	200	340	10	190	10
51990	DG 95-84-R	175	180	Granodiorite (A)	14.58	2.01	0.03	3.24	5.26	1.34	0.03	1.86	0.12	66.33	0.5	3.89	99.19	1540	200	270	10	190	20
52249	DG 95-87-R	220	225	Granodiorite (A)	13.78	3.02	0.02	3.51	4.67	1.54	0.03	1.95	0.13	66.82	0.5	3.28	99.25	1580	170	350	10	190	10
52251	DG 95-88-R	25	30	Granodiorite (A)	13.98	2.19	0.03	3.46	4.99	0.79	0.02	1.95	0.13	67.17	0.5	3.8	99.01	1600	190	350	10	180	10
52265	DG 95-88-R	95	100	Granodiorite (A)	14.2	3.05	0.02	3.44	5.07	1.27	0.02	2.27	0.13	66.33	0.51	2.65	98.96	1480	180	400	10	180	10
52491	ABA1	trench wall	0	Granodiorite (A)	15	1.89	0.02	3.69	5.04	1.63	0.01	2.41	0.16	66.87	0.61	1.86	99.19	1780	190	430	10	210	10
52492	ABA2	trench wall	0	Granodiorite (A)	14.96	2.37	0.02	3.07	5.46	1.28	0.02	2.14	0.13	67.79	0.51	1.58	99.33	1680	190	350	10	180	20
52496	ABA6	road cut	0	Granodiorite (A)	15.14	2.96	0.01	3.57	4.85	1.5	0.01	2.4	0.15	66.75	0.57	1.13	99.04	1760	180	460	10	200	20
52499	ABA9	road cut	0	Granodiorite (A)	15.29	2.86	0.03	3.54	4.84	1.53	0.03	2.27	0.15	67.21	0.56	1.39	99.7	1740	200	420	10	200	20
52608	DG 95-90-R	45	50	Granodiorite (A)	14.34	2.59	0.02	3.34	4.91	1.34	0.01	2.1	0.13	67.87	0.52	1.51	98.68	1640	180	400	10	190	20
52623	DG 95-90-R	110	115	Granodiorite (A)	12.8	3.9	0.01	3.54	5.35	1.43	0.02	1.53	0.11	65.93	0.54	4.01	99.17	1800	190	400	10	170	10
52642	DG 95-90-R	200	205	Granodiorite (A)	14.32	2.89	0.03	3.71	5.2	1.49	0.01	2.28	0.14	65.73	0.56	2.16	98.52	1700	190	450	10	200	10

Appendix G1 - Whole Rock Analysis by XRF

Sample #	Drillhole ID	From_ft	To_ft	Rock Type	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	L	TOTAL	Ba	Rb	Sr	Nb	Zr	Y
Units					XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	%	%	ppm	ppm	ppm	ppm	ppm	ppm
52946	DG 95-92-R	55	60	Granodiorite (A)	14.43	2.42	0.005	3.61	5.32	0.97	0.03	1.52	0.14	66.58	0.56	3.59	99.17	1600	210	270	10	200	10
53229	DG 95-93-R	5	10	Granodiorite (A)	13.9	1.66	0.01	3.09	5.26	1.15	0.01	1.83	0.12	69.76	0.5	1.8	99.09	1660	200	330	10	180	10
70792	DG 95-133-R	45	50	Granodiorite (A)	14.64	3.17	0.01	3.92	4.64	1.41	0.03	2.19	0.14	66.69	0.57	1.86	99.27	1700	190	420	10	190	10
71036	DG 95-135-R	15	20	Granodiorite (A)	14.2	1.75	0.02	3.41	4.8	1.3	0.02	1.83	0.13	69.37	0.53	1.98	99.34	1620	190	330	10	190	10
71058	DG 95-135-R	125	130	Granodiorite (A)	13.87	2.76	0.04	3.63	4.96	1.34	0.02	2.16	0.12	67.88	0.53	1.22	98.53	1580	190	400	10	190	10
72867	DG 95-102-C	15	20	Granodiorite (A)	14.5	1.66	0.02	2.9	5.04	1.03	0.02	2.25	0.1	69.64	0.43	1.41	99	1460	190	310	10	190	10
72893	DG 95-102-C	135	140	Granodiorite (A)	16.96	3.85	0.03	5.56	4.16	2.79	0.08	1.75	0.16	60.44	0.8	2.47	99.05	1580	170	440	10	190	20
75461	DG 95-96-R	30	35	Granodiorite (A)	14.4	2.46	0.02	3.79	5.18	1.42	0.02	2.17	0.14	67.67	0.55	1.36	99.18	1760	200	580	10	180	10
75616	DG 95-97-R	45	50	Granodiorite (A)	14.64	2.93	0.01	4	4.83	1.42	0.02	2.19	0.12	67.05	0.56	0.97	98.74	1620	190	450	10	200	10
75765	DG 95-98-R	15	20	Granodiorite (A)	13.88	2.73	0.01	3.43	5.14	1.18	0.02	1.97	0.12	67.92	0.52	1.75	98.67	1720	200	380	10	200	20
77006	DG 95-117-R	35	40	Granodiorite (A)	14.65	0.75	0.02	3.37	5.12	0.98	0.01	1.33	0.13	68.37	0.52	3.94	99.19	1820	200	220	10	190	10
79452	ABA12	trench wall	0	Granodiorite (A)	15.21	2.67	0.01	3.33	5.14	1.6	0.02	2.34	0.15	66.63	0.58	1.38	99.06	1900	190	450	10	200	20
79453	ABA13	cut bank	0	Granodiorite (A)	15.27	2.96	0.02	3.24	4.78	1.54	0.01	2.35	0.16	66.99	0.58	1.1	99	1780	180	450	10	210	10
79456	ABA16	bank	0	Granodiorite (A)	14.04	1.94	0.03	3.09	4.87	1.34	0.01	2.01	0.14	69.72	0.56	1.53	99.28	1780	190	360	10	200	10
79457	ABA17	trench wall	0	Granodiorite (A)	14.48	2.24	0.02	3.12	4.85	1.2	0.02	2.38	0.14	67.58	0.54	2.96	99.53	1620	190	390	10	190	10
79458	ABA18	trench wall	0	Granodiorite (A)	14.62	2.97	0.01	3.01	5.49	0.88	0.03	1.99	0.14	65.76	0.54	3.58	99.02	1500	200	300	10	190	20
79459	ABA19	trench wall	0	Granodiorite (A)	14.77	1.44	0.01	3.2	5.2	1.21	0.02	2.31	0.14	68.18	0.55	2.02	99.05	1720	190	370	10	200	20
79461	ABA21	road cut	0	Granodiorite (A)	16.04	3.52	0.02	4.06	4.29	1.94	0.03	2.53	0.18	64.53	0.7	1.51	99.35	1960	180	510	10	230	20
79464	ABA24	trench wall	0	Granodiorite (A)	15.07	1.53	0.01	2.83	5.08	1.05	0.02	1.68	0.14	68.79	0.54	2.29	99.03	1580	210	240	10	210	20
1083	DG 95-80-R	410	415	Granodiorite (B)	12.66	0.44	0.04	3.51	4.26	0.55	0.005	0.1	0.12	73.11	0.47	3.81	99.07	1080	160	150	10	180	20
1112	DG 95-80-R	550	555	Granodiorite (B)	13.88	2.98	0.04	3.7	4.87	1.65	0.03	1.5	0.13	64.95	0.49	4.88	99.1	1640	190	440	10	180	10
1143	DG 95-80-R	695	700	Granodiorite (B)	14.28	3.29	0.04	2.96	4.76	0.81	0.02	0.82	0.13	65.19	0.55	6.58	99.43	1420	170	370	10	190	10
1299	DG 95-81-R	655	660	Granodiorite (B)	14.1	3.12	0.01	4.44	4.82	1.9	0.04	1.69	0.14	63.6	0.55	4.66	99.07	1480	180	490	10	170	20
1342	DG 95-81-R	880	885	Granodiorite (B)	13.58	2.87	0.01	3.45	5.05	1.33	0.02	1.95	0.12	67.91	0.48	2.32	99.09	1580	190	410	10	170	10
1399	DG 95-83-R	405	410	Granodiorite (B)	13.7	2.71	0.03	3.48	5.47	1.37	0.02	2.15	0.12	66.13	0.47	3.55	99.2	1640	190	400	10	180	10
1441	DG 95-83-R	595	600	Granodiorite (B)	13.51	3.7	0.02	3.03	5.07	1.14	0.02	2.03	0.11	66.51	0.43	3.61	99.18	1520	180	430	10	170	10
1457	DG 95-84-R	545	550	Granodiorite (B)	13.3	2.58	0.05	3.63	4.88	1.37	0.02	2.06	0.12	67.63	0.47	2.98	99.09	1560	170	400	10	180	10
1496	DG 95-85-R	415	420	Granodiorite (B)	14.41	3.33	0.03	3.6	4.68	1.43	0.03	2.42	0.12	66.31	0.54	2.32	99.22	1600	170	430	10	190	10
1555	DG 95-86-R	360	365	Granodiorite (B)	13.48	2.75	0.02	3.4	4.67	1.25	0.02	2.17	0.1	68.67	0.48	2.06	99.07	1460	170	360	10	180	10
1694	DG 95-87-R	525	530	Granodiorite (B)	13.04	3.21	0.02	2.95	4.59	1.25	0.02	1.97	0.1	69.19	0.47	2.19	99	1400	170	360	10	170	10
51816	DG 95-82-R	345	350	Granodiorite (B)	14.39	2.97	0.02	3.85	4.95	1.68	0.03	1.99	0.14	64.52	0.56	4.06	99.16	1760	170	480	10	200	10
51920	DG 95-83-R	80	85	Granodiorite (B)	13.95	4.05	0.02	4.46	4.31	1.92	0.05	1.88	0.15	62.53	0.54	5.18	99.04	1380	160	390	10	150	10
51944	DG 95-83-R	185	190	Granodiorite (B)	14.01	3.64	0.02	3.25	4.99	1.03	0.02	1.87	0.13	64.57	0.51	4.98	99.02	1460	180	360	10	190	10
52162	DG 95-86-R	130	135	Granodiorite (B)	14.89	3.5	0.02	4.5	4.42	1.8	0.05	2.46	0.13	65.53	0.49	1.36	99.15	1380	170	440	10	160	10
70756	DG 95-132-R	520	525	Granodiorite (B)	14.2	3.26	0.02	3.81	4.78	1.34	0.02	2.29	0.11	66.8	0.5	1.69	98.82	1600	190	440	10	180	10
70935	DG 95-134-R	345	350	Granodiorite (B)	13.9	3.87	0.01	3.63	4.57	1.26	0.02	1.92	0.11	67.05	0.5	2.53	99.37	1600	180	390	10	180	10
72903	DG 95-102-C	185	190	Granodiorite (B)	14.64	3.29	0.01	3.95	4.44	1.71	0.04	2.34	0.13	66.47	0.49	1.58	99.09	1460	170	440	10	160	10
75492	DG 95-96-R	180	185	Granodiorite (B)	12.61	2.37	0.01	3.41	4.44	1.17	0.02	1.77	0.13	70.48	0.48	1.77	98.66	1480	180	410	10	170	10
75565	DG 95-96-R	525	530	Granodiorite (B)	14.38	3.42	0.04	4.52	5.02	1.65	0.03	2.15	0.13	65.1	0.59	1.95	98.98	1760	190	460	10	200	10
75998	DG 95-99-R	400	405	Granodiorite (B)	14.42	3.14	0.02	3.61	4.94	1.49	0.02	2.27	0.09	67.46	0.5	1.47	99.43	1280	200	370	10	190	20
76948	DG 95-116-R	250	255	Granodiorite (B)	13.85	3.02	0.02	3.58	4.7	1.42	0.03	2.18	0.11	67.45	0.53	2.02	98.91	1620	180	410	10	190	20
77366	DG 95-119-R	930	935	Granodiorite (B)	13.82	2.98	0.06	3.86	5.03	1.5	0.02	2.28	0.12	66.04	0.52	2.39	98.62	1720	200	440	10	190	10
77479	DG 95-125-R	505	510	Granodiorite (B)	14.23	3.18	0.01	3.6	4.77	1.36	0.02	2.06	0.1	67.43	0.5	1.98	99.24	1600	190	400	10	180	10
111085	96 - 154C	420	425	Granodiorite	14.96	3.18	0.005	3.76	4.72	1.34	0.04	2.07	0.15	66.12	0.53	2.18	99.05	1770	204	490	16	231	12
111205	96 - 155C	450	455	Granodiorite	14.98	3.02	0.005	3.74	4.89	1.41	0.04	2.19	0.14	66.95	0.51	1.93	99.8	1515	448	14	200	237	14
111485	96 - 157C	500	505	Granodiorite	14.71	3.51	0.005	3.29	4.88	1.11	0.03	2.04	0.15	65.34	0.49	3.22	98.77	1525	496	14	198	291	18
112150	96 - 192C	50	55	Granodiorite	14.67	2.59	0.005	3.59	5.25	1.2	0.04	2	0.14	66.48	0.5	2.81	99.27	1685	208	370	16	225	14
112447	96 - 193C	355	360	Granodiorite	14.77	3.1	0.005	3.13	4.86	1.25	0.03	2.37	0.13	68.15	0.5	1.19	99.48	1695	190	494	14	210	14
111219	96 - 155C	515	520	Granodiorite	14.62	3	0.005	4.13	4.9	1.33	0.05	1.63	0.14	66.37	0.53	2.86	99.56	1485	380	12	196	210	12
111367	96 - 156C	495	500	Granodiorite	14.45	3.11	0.005	3.65	4.97	1.39	0.04	2.01	0.14	67.15	0.53	1.5	98.94	1625	460	14	206	201	14
111493	96 - 157C	535	540	Granodiorite	15.14	2.94	0.005	3.69	5.29	1.43	0.04	2.3	0.15	66.63	0.51	1.69	99.81	1560	470	14	214	207	14
111511	96 - 157C	620	625	Granodiorite	14.35	2.9	0.005	3.65	5.4	1.31	0.04	1.83	0.14	66.99	0.5	2.79	99.9	1540	418	14	218	210	14
111617	96 - 158C	395	400	Granodiorite	14.33	3.2	0.005	3.3	5.02	1.17	0.03	1.51	0.13	65.86	0.46	4.1	99.11	1400	350	14	200	189	14
111624	96 - 158C	425	430	Granodiorite	13.12	3.27	0.005	4.07	4.21	1.21	0.07	0.3	0.13	66.59	0.46	5.97	99.4	755	184	12	206	180	14
111794	96 - 159C	640	645	Granodiorite	14.62	3.03	0.005	3.83	4.98	1.34	0.04	2.11	0.14	65.59	0.52	2.85	99.05	1655	206	448	16	216	14
111804	96 - 159C	685	690	Granodiorite	14.12	2.73	0.005	4.02	5.49	1.24	0.04	1.83	0.15	66.3	0.52	3.39	99.83	1660	224	408	16	219	14
111809	96 - 159C	705	710	Granodiorite	14.53	2.54	0.005	3.92	4.87	1.32	0.04	2.23	0.14	66.94	0.51	2.42	99.46	1705	208	468	16	225	14

Appendix G1 - Whole Rock Analysis by XRF

Sample #	Drillhole ID	From_ft	To_ft	Rock Type	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	L	TOTAL	Ba	Rb	Sr	Nb	Zr	Y
Units					XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	%	%	ppm	ppm	ppm	ppm	ppm	ppm
111955	96 - 160C	630	635	Granodiorite	14.03	2.96	0.005	3.99	4.87	0.87	0.05	1.4	0.14	66.17	0.53	3.83	98.84	1585	204	276	14	225	12
111970	96 - 160C	700	705	Granodiorite	13.74	4.87	0.005	6.38	4.64	3.35	0.11	1.91	0.16	59.68	0.64	3.7	99.18	1365	208	452	18	183	28
112127	96 - 191C	700	705	Granodiorite	14.99	3.26	0.005	3.79	4.83	1.39	0.03	2.34	0.15	66.99	0.55	0.93	99.25	1705	206	492	16	216	14
112170	96 - 192C	140	145	Granodiorite	14.79	3.13	0.005	3.69	4.84	1.35	0.04	2.16	0.15	65.11	0.54	3.11	98.91	1650	192	430	16	231	14
112235	96 - 192C	440	445	Granodiorite	14.26	3.95	0.005	3.33	5.02	1.34	0.04	1.97	0.14	65.87	0.51	2.7	99.13	1705	190	448	14	213	12
112302	96 - 192C	750	755	Granodiorite	14.06	3.33	0.005	3.22	5.02	1.45	0.04	1.71	0.14	66.19	0.5	3.45	99.11	1750	196	464	16	219	14
120181	96 - 162R	360	365	Granodiorite	13.09	2.82	0.005	2.93	4.73	0.68	0.05	1.46	0.12	69.24	0.39	4.06	99.57	1390	290	10	192	192	12
120280	96 - 163R	300	305	Granodiorite	14.03	1.92	0.01	3.06	5.04	0.75	0.04	1.92	0.11	69.2	0.42	2.84	99.34	1620	342	12	196	252	12
120296	96 - 163R	370	375	Granodiorite	14.68	1.44	0.005	4.04	4.99	0.75	0.05	1.27	0.14	68.54	0.51	3.37	99.78	1540	230	14	206	270	14
120384	96 - 164R	320	325	Granodiorite	14.65	2.87	0.005	3.44	5.08	0.87	0.04	1.7	0.14	66.54	0.51	3.99	99.83	1660	340	14	212	222	14
120421	96 - 165R	60	65	Granodiorite	15.08	2.39	0.005	3.89	5.22	1.4	0.04	2.02	0.15	67.42	0.55	1.56	99.72	1730	448	18	212	351	14
120481	96 - 165R	315	320	Granodiorite	13.99	2.57	0.005	3.33	5.05	1.2	0.04	1.94	0.11	69.81	0.47	1.62	100.13	1555	412	14	212	225	14
120498	96 - 165R	390	395	Granodiorite	14.73	2.62	0.005	3.65	4.89	1.21	0.04	2.18	0.13	68.17	0.5	1.48	99.6	1665	202	512	16	216	12
120647	96 - 166R	565	570	Granodiorite	21.66	0.66	0.01	7.46	5.05	2.05	0.08	1.66	0.08	56.22	0.94	3.03	98.9	1620	420	12	196	213	10
120778	96 - 168R	30	35	Granodiorite	14.78	1.54	0.005	3.43	5.22	1.2	0.05	0.88	0.15	68.16	0.53	3.54	99.48	1665	194	14	206	240	16
120822	96 - 168R	220	225	Granodiorite	14.52	1.14	0.005	4.63	4.78	1.18	0.03	0.32	0.14	68.26	0.5	4.7	100.2	1340	180	12	184	222	12
120912	96 - 169R	245	250	Granodiorite	14.69	1.41	0.005	3.18	4.74	1.23	0.03	0.78	0.15	68.77	0.51	3.97	99.46	1415	330	14	184	204	16
121149	96 - 170R	690	695	Granodiorite	11.57	3.89	0.005	3.31	4.91	0.83	0.07	0.81	0.1	67.28	0.42	5.23	98.42	1670	184	326	12	177	12
121241	96 - 171R	385	390	Granodiorite	12.69	2.82	0.005	3.18	4.27	1.02	0.03	1.58	0.12	70.85	0.41	2.79	99.76	1360	374	12	168	201	12
121369	96 - 172R	180	185	Granodiorite	14.11	2.71	0.005	2.92	4.42	1.13	0.03	2.12	0.1	68.57	0.35	3.13	99.59	1170	364	14	190	138	8
121474	96 - 172R	630	635	Granodiorite	14.36	3.26	0.005	3.79	4.87	1.39	0.04	1.95	0.13	67.58	0.5	1.95	99.82	1605	482	14	200	213	12
121495	96 - 172R	720	725	Granodiorite	13.29	3.27	0.005	3.41	4.16	1.05	0.05	1.51	0.14	68.95	0.41	3.28	99.52	1340	420	12	176	180	12
121786	96 - 174R	525	530	Granodiorite	14.2	3.16	0.005	3.72	4.85	1.22	0.04	2	0.12	67.75	0.46	2.62	100.14	1520	404	14	208	195	12
121939	96 - 175R	525	530	Granodiorite	14.86	3.95	0.005	4.29	4.44	2.17	0.05	2.21	0.13	65.07	0.52	2.14	99.83	1585	510	14	204	192	14
121949	96 - 175R	565	570	Granodiorite	15.08	3.26	0.005	3.41	4.32	1.4	0.04	2.34	0.12	68.21	0.51	1.29	99.98	1640	484	16	188	201	14
122253	96 - 179R	390	395	Granodiorite	15.06	3.47	0.005	3.89	4.68	1.51	0.04	2.28	0.14	65.18	0.55	3.2	100	1710	196	452	16	225	14
122445	96 - 181R	415	420	Granodiorite	5.37	0.59	0.005	1.93	1.43	0.33	0.04	0.95	0.05	87.74	0.2	0.87	99.5	375	64	4	64	156	6
122626	96 - 184R	335	340	Granodiorite	14.61	1.46	0.005	4.16	4.08	1.16	0.04	0.98	0.05	68.25	0.58	3.64	99.01	765	152	12	180	171	22
122771	96 - 185R	615	620	Granodiorite	12.35	3.48	0.005	2.98	4.73	0.95	0.04	1.65	0.12	68.43	0.36	4.48	99.57	1590	412	10	180	171	12
122785	96 - 185R	675	680	Granodiorite	11.79	4.17	0.005	3.2	4.85	0.85	0.04	1.64	0.08	67.1	0.27	5.7	99.69	1725	172	494	8	156	10
122929	96 - 186R	590	595	Granodiorite	13.77	3.44	0.005	4.11	4.77	1.97	0.05	1.94	0.14	65.71	0.49	3.24	99.63	1505	498	14	204	156	12
122959	96 - 186R	720	725	Granodiorite	13.85	2.65	0.005	3.22	4.93	1.18	0.04	1.76	0.13	68.92	0.48	3.05	100.21	1605	366	12	198	201	12
122978	96 - 207R	295	300	Granodiorite	10.34	2.16	0.01	6.39	3.25	0.89	0.05	0.27	0.11	70.5	0.37	4.8	99.14	690	136	10	148	159	10
123317	96 - 189R	400	405	Granodiorite	14.15	3.1	0.005	3.81	4.8	1.32	0.03	2.02	0.14	66.22	0.5	3.07	99.16	1725	194	454	14	231	12
123697	96 - 204R	250	255	Granodiorite	14.28	2.47	0.005	3.45	4.87	1.29	0.03	2.18	0.13	68.55	0.49	1.61	99.35	1725	196	450	14	198	10
123777	96 - 205R	200	205	Granodiorite	14.17	2.26	0.005	3.33	5.11	1.25	0.03	2.11	0.13	69.16	0.51	1.86	99.92	1735	194	444	14	219	10
123906	96 - 206R	260	265	Granodiorite	14.36	2.47	0.005	3.71	5.15	1.26	0.04	1.96	0.13	67.71	0.49	2.04	99.32	1645	204	400	14	198	12
123964	96 - 207R	235	240	Granodiorite	13.97	2.7	0.005	4.11	4.32	1.2	0.04	2.12	0.13	68.83	0.51	1.47	99.4	1645	178	440	14	207	12
111005	96 - 154C	50	55	Granodiorite	14.96	2.8	0.005	3.75	4.95	0.9	0.05	1.6	0.15	66.61	0.53	3.39	99.69	1510	288	16	202	282	16
51752	DG 95-82-R	45	50	Metasediment (B)	15.56	2.7	0.02	4.1	3.92	1.26	0.04	0.87	0.11	66.75	0.65	3.11	99.09	760	160	150	10	170	20
51754	DG 95-82-R	55	60	Metasediment (B)	15.37	1.04	0.02	5.74	3.95	1.56	0.08	0.8	0.08	67.01	0.68	3.08	99.41	1040	170	90	10	200	20
52066	DG 95-85-R	5	10	Metasediment (B)	20.89	1.72	0.04	7.26	5.87	3.21	0.05	1.49	0.1	55.4	0.82	2.37	99.22	1460	250	140	10	160	30
52084	DG 95-85-R	95	100	Metasediment (B)	13.35	0.82	0.02	4.58	3.88	1.37	0.02	1.21	0.08	71.44	0.59	1.39	98.75	680	170	100	10	170	10
52106	DG 95-85-R	195	200	Metasediment (B)	16.38	0.91	0.03	5.52	4.48	1.68	0.04	1.12	0.07	64.6	0.73	3.73	99.29	820	180	100	10	200	20
52139	DG 95-86-R	20	25	Metasediment (B)	17	1.66	0.03	6.11	5.33	2.91	0.1	1.13	0.12	62.08	0.78	2.22	99.47	1060	240	150	10	200	30
52154	DG 95-86-R	95	100	Metasediment (B)	15.35	0.96	0.03	5.56	4.2	1.51	0.05	0.95	0.05	67.6	0.7	2.03	98.99	760	170	90	10	200	20
52198	DG 95-86-R	295	300	Metasediment (B)	5.51	0.96	0.01	2.12	1.33	0.41	0.01	1.06	0.02	86.65	0.27	1.31	99.66	260	50	40	<10	210	10
52207	DG 95-87-R	20	25	Metasediment (B)	7.17	0.4	0.01	2.28	2.21	0.51	0.02	0.93	0.03	83.52	0.32	1.08	98.48	400	90	60	<10	200	10
52218	DG 95-87-R	75	80	Metasediment (B)	13.74	0.52	0.02	4.81	4.53	1.21	0.03	1.69	0.06	70.54	0.63	1.21	98.99	780	160	80	10	200	10
52493	ABA3	trench wall	0	Metasediment (B)	21.49	0.71	0.03	6.08	5.34	1.89	0.03	1.21	0.16	59	0.93	2.91	99.78	1020	220	120	10	210	20
52494	ABA4	trench wall	0	Metasediment (B)	25.28	0.35	0.03	7.29	5	2.13	0.07	0.81	0.08	54.54	1.06	3.3	99.94	1200	210	140	20	200	30
52495	ABA5	trench wall	0	Metasediment (B)	25.86	3.46	0.03	7.12	5.09	2.41	0.06	1.78	0.13	49.54	0.93	3.22	99.63	1040	220	300	10	140	30
52497	ABA7	road cut	0	Metasediment (B)	11.65	0.41	0.02	3.88	3.37	1.12	0.03	1.13	0.04	75.63	0.54	1.54	99.36	720	130	80	10	250	20
52498	ABA8	road cut	0	Metasediment (B)	14.58	1.61	0.03	4.52	4.45	1.35	0.04	1.16	0.09	68.74	0.64	1.87	99.08	940	190	120	10	220	20
52500	ABA10	trench wall	0	Metasediment (B)	5.67	0.3	0.02	1.93	1.8	0.55	0.02	0.92	0.03	86.7	0.25	0.82	99.01	320	80	40	<10	210	10
70869	DG 95-134-R	20	25	Metasediment (B)	20.16	4.82	0.03	7.28	4.14	2.32	0.06	1.29	0.1	55.59	0.79	2.61	99.19	1680	190	290	10	170	20
70902	DG 95-134-R	180	185	Metasediment (B)	23.33	1.66	0.03	7.69	5.31	2.1	0.06	2.33	0.12	52.69	0.87	2.93	99.12	900	220	240	10	130	30

Appendix G1 - Whole Rock Analysis by XRF

Sample #	Drillhole ID	From_ft	To_ft	Rock Type	Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	L	TOTAL	Ba	Rb	Sr	Nb	Zr	Y
Units					XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	XRF	%	%	ppm	ppm	ppm	ppm	ppm	ppm
70928	DG 95-134-R	310	315	Metasediment (B)	15.67	0.93	0.02	4.3	5.41	1.2	0.02	1.45	0.07	66.85	0.71	2.17	98.8	1260	200	170	10	210	20
72877	DG 95-102-C	60	65	Metasediment (B)	13.23	1.61	0.08	4.19	3.69	1.36	0.03	1.5	0.09	70.38	0.56	2.47	99.19	960	160	180	10	190	10
72885	DG 95-102-C	100	105	Metasediment (B)	9.5	0.37	0.02	3.2	2.71	0.82	0.02	0.98	0.03	80.05	0.41	1.34	99.45	500	120	40	<10	180	10
72910	DG 95-102-C	215	220	Metasediment (B)	9.09	1.69	0.01	2.46	2.66	0.83	0.01	0.98	0.09	78.56	0.34	2.34	99.06	920	120	180	10	150	10
75920	DG 95-99-R	30	35	Metasediment (B)	12.28	0.76	0.03	4.92	3.43	1.35	0.06	1.43	0.07	72.95	0.61	1.38	99.27	640	150	120	10	220	20
75946	DG 95-99-R	155	160	Metasediment (B)	12.93	2.83	0.02	4.36	3.03	1.56	0.03	0.67	0.1	70.54	0.55	2.35	98.97	780	160	150	10	130	20
77175	DG 95-119-R	20	25	Metasediment (B)	15.94	1.32	0.02	5.55	4.64	1.36	0.05	0.33	0.1	64.64	0.72	4.64	99.31	1300	190	80	10	220	20
77178	DG 95-119-R	35	40	Metasediment (B)	12.62	2.09	0.02	4.01	4.25	1.07	0.03	1.13	0.05	70.82	0.48	2.55	99.12	900	180	160	10	190	10
77223	DG 95-119-R	250	255	Metasediment (B)	16.23	1.24	0.02	5.13	4.84	1.48	0.03	1.34	0.1	65.95	0.64	2.3	99.3	1080	190	130	10	160	20
77383	DG 95-125-R	50	55	Metasediment (B)	17.7	0.94	0.04	7.22	4.03	1.92	0.08	1.24	0.1	61.96	0.83	3.33	99.39	880	180	120	10	230	20
77406	DG 95-125-R	160	165	Metasediment (B)	5.43	1.59	0.01	1.76	1.27	0.3	0.02	0.71	0.04	85.77	0.24	2.14	99.28	300	50	40	<10	200	10
78402	DG 95-132-R	10	15	Metasediment (B)	17.45	0.47	0.02	6.28	5.16	1.57	0.04	1.33	0.11	62.7	0.78	3.18	99.09	1280	210	90	10	200	20
78449	DG 95-132-R	240	245	Metasediment (B)	8.63	1.01	0.02	2.32	2.93	0.37	0.01	0.31	0.03	80.74	0.41	2.28	99.06	480	120	30	10	140	10
78471	DG 95-132-R	520	525	Metasediment (B)	14.73	1.66	0.02	5	4.66	1.37	0.03	1.41	0.1	65.71	0.84	3.52	99.05	900	180	140	10	220	20
79451	ABA11	/trench cut	0	Metasediment (B)	15.74	0.32	0.03	5.61	4.76	1.43	0.05	1.06	0.08	67.26	0.65	2.55	99.54	960	200	100	10	190	20
79454	ABA14	op at end c	0	Metasediment (B)	15.27	0.76	0.03	4.66	4.31	1.52	0.06	1.25	0.07	68.56	0.67	1.97	99.13	760	180	120	10	210	20
79455	ABA15	cut bank	0	Metasediment (B)	22.19	0.33	0.04	5.51	5.72	1.68	0.02	1	0.11	59.31	0.95	2.99	99.85	1260	220	110	20	210	20
79460	ABA20	op of trenc	0	Metasediment (B)	18.81	2.93	0.02	4.91	5.43	1.89	0.03	1.54	0.08	60.84	0.74	2.23	99.45	1100	220	260	10	190	20
79462	ABA22	trench wall	0	Metasediment (B)	5.62	0.15	0.01	1.54	2.08	0.44	0.01	0.47	0.03	86.28	0.24	1.66	98.53	500	80	20	<10	190	10
79463	ABA23	road cut	0	Metasediment (B)	20.92	0.71	0.03	5.87	5.57	1.72	0.05	1.33	0.12	59.28	0.77	3.26	99.63	1060	230	120	10	170	20
111270	96 - 156C	50	55	Metasediment	16.93	1.57	0.005	5.4	4.95	1.77	0.06	1.21	0.09	62.01	0.68	4.87	99.54	675	124	12	222	162	20
111554	96 - 158C	105	110	Metasediment	7.93	0.2	0.01	1.64	2.88	0.42	0.01	0.7	0.03	84.01	0.36	1.38	99.57	455	58	6	100	228	10
111662	96 - 159C	30	35	Metasediment	24.77	0.66	0.005	6.01	6.24	1.8	0.03	1.75	0.09	52.79	0.92	4.02	99.08	1125	180	18	260	150	28
111833	96 - 160C	70	75	Metasediment	16.76	0.97	0.005	2.67	5.09	0.48	0.03	0.78	0.06	67.79	0.72	4	99.35	925	202	46	16	213	18
111996	96 - 191C	100	105	Metasediment	16.08	2.18	0.005	4.3	5.26	0.63	0.04	1.37	0.12	62.89	0.65	4.59	98.11	1195	228	234	14	186	20
111310	96 - 156C	235	240	Metasediment	4.73	0.28	0.005	1.31	1.32	0.2	0.01	0.75	0.01	88.95	0.21	0.66	98.43	270	48	4	48	198	8
111577	96 - 158C	210	215	Metasediment	9.99	1.37	0.005	2.3	2.8	0.57	0.04	0.32	0.22	76.88	0.43	3.32	98.24	555	64	8	112	219	16
111702	96 - 159C	215	220	Metasediment	11.41	1.12	0.005	3.57	4.04	1.16	0.04	1.25	0.05	75.09	0.48	1.54	99.75	660	128	10	190	237	16
112462	96 - 193C	425	430	Metasediment	7.54	0.67	0.005	2.73	2.08	0.62	0.04	1.27	0.03	83.44	0.33	0.96	99.71	435	78	72	8	219	10
120109	96 - 162R	50	55	Metasediment	8.4	0.48	0.01	2.69	2.44	0.59	0.03	1.27	0.08	82.7	0.38	0.85	99.92	340	56	10	98	318	10
120119	96 - 162R	95	100	Metasediment	18.91	0.44	0.01	2.95	5.82	0.52	0.04	0.55	0.2	65.63	0.7	3.86	99.63	970	80	16	228	306	24
120224	96 - 163R	55	60	Metasediment	15.35	0.28	0.01	4.95	4.63	1.4	0.06	1.05	0.06	68.41	0.63	2.28	99.11	810	90	12	202	222	20
120314	96 - 164R	25	30	Metasediment	9.51	0.3	0.01	2.68	3.4	0.66	0.04	0.79	0.05	79.27	0.42	1.22	98.35	550	78	8	136	216	12
120680	96 - 167R	55	60	Metasediment	14.28	3.06	0.005	4.05	4.67	1.56	0.04	1.94	0.12	67.28	0.52	2.1	99.62	845	156	16	240	249	28
120878	96 - 169R	100	105	Metasediment	5.61	0.11	0.005	1.49	1.61	0.2	0.04	0.005	0.01	88.75	0.23	1.4	99.45	210	6	4	74	168	8
121036	96 - 170R	210	215	Metasediment	6.64	1.22	0.005	2.07	1.99	0.4	0.03	1.04	0.04	83.98	0.3	0.91	98.62	450	76	66	8	291	10
121174	96 - 171R	100	105	Metasediment	15.82	0.5	0.005	4.06	4.42	1.03	0.04	1.13	0.13	68.08	0.64	2.88	98.73	970	96	14	182	222	18
121207	96 - 171R	240	245	Metasediment	5.57	0.18	0.005	2.05	1.77	0.21	0.03	0.11	0.04	87.62	0.23	1.69	99.5	345	40	4	64	186	8
121527	96 - 173R	40	45	Metasediment	16.7	1.78	0.005	5.56	4.01	1.61	0.06	1.56	0.09	65.1	0.68	2.15	99.3	900	174	14	178	222	20
121827	96 - 175R	50	55	Metasediment	11.46	0.42	0.005	4.31	3.08	0.96	0.06	0.76	0.12	76.61	0.46	1.89	100.13	550	72	8	140	192	16
121954	96 - 175R	590	595	Metasediment	7.93	0.56	0.005	2.61	2.15	0.65	0.03	1.06	0.04	83.34	0.38	1.01	99.76	490	76	8	88	243	12
122008	96 - 176R	220	225	Metasediment	16.4	0.49	0.005	5.5	4.73	1.51	0.05	1.14	0.09	66.96	0.72	1.92	99.51	830	110	12	206	153	20
122109	96 - 178R	40	45	Metasediment	11.22	1.97	0.005	3.98	3.25	1.04	0.06	1.38	0.11	73.42	0.44	3.26	100.13	970	224	10	126	165	12
123238	96 - 189R	65	70	Metasediment	18.17	1.13	0.005	6.43	5.62	2.42	0.07	2.05	0.09	58.97	0.87	3.21	99.03	1250	264	116	18	246	24

Appendix G2: Metals by Aqua Regia Digestion with ICP-MS Finish

Appendix G2 - Summary of Low-Level Metals by Aqua Regia Digestion with ICP-MS Finish

	Metasediments			Granodiorite A (oxidized)			Granodiorite B (unaltered)			Granodiorite C (altered)		
	(n=120)			(n=51)			(n=92)			(n=56)		
	Mean	Minimum	Maximum	Mean	Minimum	Maximum	Mean	Minimum	Maximum	Mean	Minimum	Maximum
Ag (ppb)	0.12	0.01	1.10	18	0.09	1316	46	0.10	1318	67	0.01	4490
As(ppm)	187	24	740	386	17	4060	602	18	4100	185	9	1963
Au (ppb)	60	4.6	214	39	0.04	841	218	18	1354	85	0.02	2400
Bi (ppm)	19	0.10	180	15	0.30	112	17	0.30	100	4.1	0.05	56
Cd (ppm)	0.32	0.02	4.0	0.33	0.02	4.0	1.4	0.03	26.50	0.49	0.01	20
Cu (ppm)	30	8.0	115	35	6.0	98	43	11	167	33	6.0	167
Fe (%)	2.4	1.7	3.9	2.4	1.3	4.0	2.3	1.3	3.7	2.8	0.88	4.9
Hg (ppb)	0.46	0.01	1.0	0.47	0.01	2.00	1.4	0.01	39.00	0.35	0.01	9.0
Mn (ppm)	218	105	580	222	60	440	279	79	1535	264	55	1148
Mo (ppm)	3.8	0.50	9.0	4.0	0.50	32	5.4	1.2	15.00	2.5	0.37	13
Ni (ppm)	21	13	32	19	7.0	28	22	11	37	29	4.0	80
Pb (ppm)	8.8	2.0	48	26	1.0	360	65	0.50	518	15	0.50	257
S (%)	0.13	0.04	0.36	0.21	0.05	0.83	0.22	0.03	0.55	0.16	0.02	1.2
Sb (ppm)	2.8	0.20	22	4.8	0.50	102	14	0.20	114	5.4	0.18	111
Se (ppm)	0.75	0.30	1.6	0.89	0.10	2.0	1.3	0.20	3.2	0.48	0.10	3.1
Tl (ppm)	0.48	0.20	0.60	3.1	0.11	5.0	0.59	0.10	10	1.4	0.12	5.0
U (ppm)	1.3	0.50	5.9	3.9	0.50	7.1	2.3	0.50	9.9	2.0	0.40	5.8
W (ppm)	9.1	0.10	70	12	0.20	140	9.5	0.30	94	20	0.10	1080
Zn (ppm)	57	12	392	66	10	764	267	14	4920	98	4.0	2999

Appendix G2 - Low-Level Metals by Aqua Regia Digestion with ICP-MS Finish

Sample #	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	U	V	W	Zn
Units	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
48158	370	1.46	427.1	927.9	20	318	36.47	1.37	0.38	8.8	103.5	55.85	2.41	6.7	39	0.56	42	0.75	250	2.62	0.049	24.3	0.059	50.78	0.19	14.12	5.2	1	104.6	1.19	19.7	0.104	0.35	5.1	28	6.7	88.7
DG11-414C Int. 12.17-21.34	42	1.81	273.9	451.9	20	494	10.04	0.88	0.03	8.6	31.9	31.87	2.5	7.7	0.005	0.79	43.5	0.79	166	1.38	0.163	23.8	0.065	4.3	0.03	0.5	5.6	0.2	66.3	0.78	17.1	0.212	0.45	2.4	32	8.8	23.9
DG11-417C Int. 120.4-131.06	324	0.82	2837	134.8	20	124.6	5.25	1.7	0.5	5.6	13.4	83.3	1.61	3.4	0.026	0.34	17.5	0.35	134	1.23	0.039	11.3	0.044	28.39	0.4	4.09	2.6	1.6	97.8	0.19	9.5	0.008	0.16	7.8	12	2.2	76.8
DG11-419C Int. 105.16-115.82	1318	0.99	2252.1	1354	20	174.4	10.35	1.79	4.93	11.8	12.7	39.87	2.67	3.3	0.115	0.42	29.2	0.52	663	1.62	0.034	22	0.059	403.52	0.52	68.81	3.9	1.1	89.3	1.31	15.6	0.019	0.25	2.9	9	19.1	872.7
G019214	1.3	0.97	601.7	138.1	20	130	21.9	0.44	2.8	11.1	121	166.7	3.09	5	0.04	0.33	29	0.4	284	12	0.025	20.7	0.057	226.6	0.13	70.1	3.2	3.2	89	--	17.2	0.033	0.2	6.1	15	0.9	512
G019217	0.1	0.6	108	45.5	20	201	1.4	1.1	0.1	7.9	95	26.6	1.83	3	0.01	0.32	39	0.3	163	3.2	0.034	19.6	0.056	8.4	0.05	2.6	3.6	0.5	45	--	17.1	0.061	0.2	2.2	22	13.8	27
G019248	0.1	0.94	121.6	19.2	20	221	1.2	1.7	0.1	7.8	125	20.3	1.66	5	0.02	0.39	37	0.5	226	3.1	0.025	21.9	0.051	20.3	0.15	15.2	3.6	0.5	107	--	19	0.082	0.3	5.2	22	1	45
G019252	0.1	0.75	97.8	141.6	20	110	26.8	1.96	0.1	9.6	146	48	1.96	4	0.01	0.23	34	0.45	196	4.9	0.029	22.2	0.055	15.7	0.28	10.6	3.4	1.3	139	--	16.2	0.025	0.1	5.5	15	10.5	26
G019254	0.1	0.92	100	152.4	24	151	3.4	1.92	0.1	7.8	127	55.7	1.84	4	0.01	0.28	33	0.55	198	3.3	0.035	19.2	0.049	27.5	0.28	13.2	3.1	1.2	133	--	16.6	0.039	0.2	5.1	18	16.7	32
G019256	0.2	0.61	1498	264.2	20	133	27.2	1.35	0.2	8.8	126	75.6	1.57	4	0.01	0.25	21	0.51	125	4.2	0.03	12.1	0.048	39.9	0.44	12.4	2.2	2	116	--	10.8	0.017	0.1	9.9	19	2.6	34
G019259	0.1	0.95	4007	153.5	20	234	13.5	0.64	0.1	8	121	80.6	1.68	6	0.01	0.34	25	0.65	79	3.2	0.048	14.8	0.048	4.8	0.25	2.4	3.2	2.8	47	--	13.9	0.065	0.2	9.1	32	5.6	14
G019263	0.1	1.41	359.7	44.4	20	365	6.7	0.61	0.6	8.3	123	39.7	2.16	7	0.01	0.55	37	0.7	152	2.9	0.076	20.2	0.058	5.2	0.05	5.4	3.8	0.9	39	--	15.7	0.145	0.3	2.6	26	4	130
M404101 to -09	479	0.75	112.9	119.6	20	164.7	4.08	1.97	1.54	9.2	65.6	50.21	1.91	3.9	22	0.35	30.5	0.7	318	1.41	0.035	26.9	0.061	116.71	0.29	18.35	5.5	1.1	158	0.23	16.5	0.045	0.18	5	14	42.4	247.7
1055	5.4	0.55	4100	--	70	0.5	42	2.37	3	10	146	46	2.59	0.5	0.5	0.35	10	0.52	1170	7	0.005	25	580	298	--	62	3	--	137	--	--	0.005	0.5	0.5	4	0.5	712
1056	3	0.44	166	--	70	0.5	6	2.64	5.5	6	117	51	1.99	0.5	0.5	0.29	10	0.57	1535	5	0.005	24	610	166	--	44	3	--	134	--	--	0.005	0.5	0.5	3	0.5	1190
1063	4.4	0.89	3490	--	80	0.5	94	1.47	11	21	156	157	3.72	0.5	0.5	0.44	10	0.43	450	13	0.005	32	640	518	--	114	2	--	155	--	--	0.005	0.5	0.5	4	0.5	2080
1128	0.1	2.4	186	--	330	1	13	1.94	0.5	8	76	26	2.71	0.5	0.5	0.57	30	0.98	300	2	0.04	20	570	66	--	8	4	--	245	--	--	0.08	0.5	0.5	27	0.5	192
1178	0.1	1.71	206	--	340	0.5	66	2.14	0.25	8	101	18	2.56	0.5	0.5	0.7	30	0.67	195	3	0.06	24	570	10	--	1	4	--	112	--	--	0.1	0.5	0.5	25	0.5	28
1259	0.2	1.35	128	--	270	0.5	66	1.46	0.25	9	92	28	2.4	10	0.5	0.49	40	0.72	245	15	0.03	25	510	30	--	8	4	--	125	--	--	0.09	10	0.5	26	10	50
1375	0.1	0.79	50	--	230	0.5	6	1.38	0.25	6	82	21	1.68	0.5	0.5	0.29	40	0.52	165	3	0.02	18	440	4	--	1	4	--	123	--	--	0.04	0.5	0.5	22	0.5	22
1386	0.2	1.12	562	--	210	0.5	28	1.7	0.25	8	112	20	2.3	0.5	0.5	0.43	30	0.68	165	4	0.03	20	470	18	--	2	4	--	141	--	--	0.07	0.5	0.5	27	0.5	22
1467	1.2	1.3	528	--	230	0.5	22	1.5	1.5	6	98	23	2.21	0.5	0.5	0.43	20	0.75	250	9	0.02	25	570	150	--	8	4	--	105	--	--	0.06	0.5	0.5	25	0.5	398
1477	0.1	1.56	110	--	350	0.5	6	1.57	0.25	7	138	18	2.54	0.5	0.5	0.57	30	0.92	215	8	0.06	24	590	4	--	1	6	--	108	--	--	0.11	0.5	0.5	32	0.5	32
1519	1.4	1.24	362	--	110	0.5	4	1.59	26.5	6	97	100	2.85	0.5	0.5	0.33	10	0.5	475	8	0.01	23	540	288	--	2	2	--	72	--	--	0.01	0.5	0.5	6	0.5	4920
1647	0.1	1.55	90	--	370	0.5	1	0.67	0.5	5	108	12	2.27	0.5	0.5	0.63	40	0.65	210	9	0.06	22	450	20	--	2	4	--	42	--	--	0.13	0.5	0.5	27	0.5	170
1675	0.1	1.03	124	--	200	0.5	2	1.71	0.25	6	104	11	2.53	0.5	0.5	0.4	30	0.47	160	5	0.02	20	480	16	--	2	3	--	122	--	--	0.04	0.5	0.5	16	0.5	38
51855	1.4	0.87	208	--	80	0.5	22	3.69	4.5	6	90	53	2	0.5	0.5	0.25	20	0.56	655	5	0.01	21	620	298	--	64	2	--	211	--	--	0.005	0.5	0.5	12	0.5	852
51865	0.2	1.45	156	--	160	0.5	4	2.61	0.5	7	185	44	2.56	0.5	0.5	0.37	30	0.75	340	4	0.03	25	680	48	--	2	3	--	175	--	--	0.005	0.5	0.5	14	0.5	180
51902	0.4	1.57	108	--	190	1	2	2.49	0.25	8	117	50	2.58	0.5	0.5	0.39	30	0.81	265	6	0.04	26	600	66	--	14	3	--	234	--	--	0.03	0.5	0.5	22	0.5	118
51965	0.1	1.62	68	--	480	0.5	6	1.21	0.25	7	156	14	2.73	0.5	0.5	0.67	40	0.88	180	13	0.03	29	600	2	--	1	6	--	71	--	--	0.15	0.5	0.5	36	60	20
52008	0.1	1.77	60	--	440	0.5	4	1.8	1	7	85	16	2.79	0.5	1	0.68	30	1.13	320	3	0.04	16	590	74	--	18	7	--	137	--	--	0.15	0.5	0.5	41	0.5	212
52288	0.1	1.31	80	--	180	0.5	8	2.06	0.25	7	71	20	2.29	0.5	0.5	0.31	30	0.75	215	4	0.02	20	580	8	--	4	3	--	157	--	--	0.03	0.5	0.5	21	0.5	28
52316	0.1	1.38	116	--	260	0.5	2	1.64	0.25	7	81	19	2.27	0.5	0.5	0.43	30	0.76	205	4	0.03	18	490	16	--	1	3	--	107	--	--	0.07	0.5	0.5	26	0.5	52
52721	0.4	1.21	158	--	350	0.5	24	1.55	0.25	9	86	32	2.3	20	0.5	0.55	30	0.69	310	4	0.04	21	530	16	--	4	6	--	88	--	--	0.12	0.5	0.5	29	10	56
52972	0.1	1.41	508	--	370	0.25	100	1.06	0.25	13	66	42	2.58	0.5	0.5	0.61	30	0.74	220	8	0.07	24	530	14	--	6	4	--	61	--	--	0.15	0.5	0.5	29	70	40
53208	0.1	1.46	132	--	370	0.25	4	1.59	0.25	8	75	30	2.53	0.5	1	0.51	30	0.82	250	12	0.03	21	530	4	--	1	4	--	102	--	--	0.11	0.5	0.5	32	0.5	32
70842	0.2	0.74	620	--	110	0.5	14	1.42	0.5	6	109	63	2.14	0.5	0.5	0.29	20	0.44	230	8	0.02	20	410	52	--	8	3	--	82	--	--	0.02	0.5	0.5	11	10	84
70981	0.1	1.53	86	--	420	0.5	6	0.83	0.25	9	84	37	2.49	10	0.5	0.67	40	0.81	160	6	0.08	22	440	0.5	--	2	6	--	58	--	--	0.17	0.5	0.5	34	20	22
71019	0.1	1.23	80	--	290	0.5	6	1.22	0.25	8	98	42	2.26	10	0.5	0.44	30	0.66	175	8	0.03	22	450	0.5	--	4	4	--	89	--	--	0.08	0.5	0.5	23	20	24
75673	0.1	1.54	288	--	290	0.5	4	2.02	0.25	8	73	33	2.64	0.5	0.5	0.51	30	0.64	225	4	0.04	20	550	12	--	4	4	--	116	--	--	0.07	0.5	0.5	21	0.5	42
75735	0.1	1.61	858	--	430	0.25	60	1.16	0.25	8	108	45	2.42	10	0.5	0.64	40	0.95	215	4	0.05	21	510	6	--	2	6	--	134	--	--	0.13	0.5	0.5	35	20	32
75860	0.1	1.32	116	--	400	0.5	16	1.74	0.25	9	94	36	2.12	0.5	0.5	0.49	30	0.77	165	4	0.01	22	560	4	--	1	4	--	113	--	--	0.1	0.5	0.5	29	0.5	22
76908	0.2	1.37	92	--	460	0.25	4	1.06	0.25	6	95	32	2.84	0.5	0.5	0.63	30	0.81	275	8	0.07	25	540	4	--	4	6	--	66	--	--	0.17	0.5	0.5	33	10	46
76983	0.2	1.04	90	--	200	0.25	8	1.85	0.25	6	131	26	2.13	0.5	0.5	0.41	30	0.66	135	4	0.06	27	490	20	--	6	5	--	167	--	--	0.04	0.5	0.5	16	10	38
77034	0.6	0.79	84	--	70	0.25	4	2.39	0.5	7	113	33	2.13	0.5	0.5	0.25	30	0.54	325	4	0.01	20	550	116	--	26	4	--	182	--	--	0.005	0.5	0.5	14	0.5	204
77253	0.8	0.45	1305	--	40	0.5	20	0.25	0.25	8	35	44	1.33	0.5	0.5	0.17	10	0.13	185	3	0.005	13	420	150	--	36	1	--	38	--	--	0.005	0.5	0.5	6	0.5	136
77317	0.1	1.69	284	--	480	0.25	2	0.94	0.25	8	120	32	2.78	0.5	0.5	0.74	20	0.82	235	11	0.1	26	500	52	--	4	6	--	70	--	--	0.17	0.5	0.5	35	20	120
G019213	0.4	1.41	2142	210.2	20	315	40.1	1.1	0.8	13.3	140	82.7	2.58	6	0.02	0.53	42	0.79	242	4.7	0.039	22.3	0.059	29.7	0.19	17.9	4.4	3	79	--	18.3	0.124	0.4	4.1	29	0.5	117
G019222	0.1	1.18	80.7	23	20	264	0.3	1.19	0.1	8.5	124	19.7	1.95	6	0.01	0.48	36	0.72	193	3.3	0.064	21.1	0.057	5.2	0.13	2.5	4	0.8	93	--	18.2	0.133	0.3	6.1	28	5.3	25
G019223	0.1	1.28	75.6	60.5	20	315	1	0.98	0.1	8.1	138	22.3	2.02	6	0.01	0.64	37	0.78	187	2.7	0.077	22.8	0.06	3.9	0.15	0.4	4.3	0.7	78	--	17.7	0.177	0.4	5.6	31	12.9	24
G019230	0.1	2.7	17.9	40.9	20	143	0.7	0.52	0.1	15	152	32.8	3.03	9	0.01	1.36	18	1.22	243	2.1	0.077	36.6	0.043	2.2	0.06	0.2	6.2	0.5	25	--	7.8	0.191	0.8	0.8	51	0.3	47
G019235	0.1	1.4	37.3	18	20	378	6.9	1.19	0.1	8.9	137	29.1	2.28	7	0.01	0.61	45	0.83	165	7.3	0.058	24.6	0.063	4.3	0.11	1.2	5.1	0.7	99	--	19.9	0.165	0.4	6.7	33	1.7	16
G019249	0.6	1.18	2298	221.2	27	370	14.1	1.29	0.4	21.8	125	61.4	2.42	5	0.01	0.62	39	0.68	196	3.1	0.066	22	0.058	38	0.55	15.5	4.3	2.2	97	--	18.4	0.158	0.9	4.8	27	4.2	66
G019253	0.1	1.24	109.5	42.6	20	249	2.9	1.41	0.1	9.3	142	54.7	2.16	6	0.01	0.44	41	0.74	161	3.9	0.06	22.4	0.055	4.5	0.28	0.6	4.2	1.5	102	--	17.8	0.115	0.3	5.3	29	94	19
G019255	0.2	0.65	96.5	143.9	20	113	5.7	1.72	0.1	7.8	127	48.3	1.75	3	0.02	0.25	29	0.5	179	9.3	0.02	19	0.063	17.9	0.3	8.2	3	1.3	128	--	13.5	0.017	0.1	4.7	10	7.4	37
G019261	0.4	0.93	454.2	85.7	20	165	21.6	1.15	1.7	8.1	121	35.4	1.82	4	0.03	0.31	30	0.36	270	2.9	0.03	16.1	0.056	55.2	0.05	24.3	3	0.9	44	--	12.8	0.039	0.2	2.2	13	2.4	275
1001	0.1	2.06	76	--	560	0.25	4	0.91	0.25	6	130	15	2.42	0.5	0.5	0.74	30	0.93	220	6	0.08	24	520	4	--	1	6	--	51	--	--	0.2	0.5	0.5	38	10	44
1031	0.1	1.96	342	--	500	0.5	18	1.63	0.25	8	135	24	2.73	0.5	0.5	0.8	30	0.95	325	4	0.03	24	590	8	--	4	5	--	82	--	--	0.13	0.5	0.5	35	0.5	54
1044	0.1	1.24	426	--	260	1	8	1.95	0.25	9	86	36	2.54	0.5	0.5	0.4	30	0.67	315	4	0.005	25	590	26	--	22	4	--	136	--	--	0.04	0.5	0.5	21	0.5	206
1172	0.1	2.4	82	--	580	0.25	10	0.87	0.25	6	86	18	2.86	0.5	0.5	0.76	40	0.97	215	2	0.11	23	580	6	--	8	7	--	69	--	--	0.17	0.5	0.5	37	10	30
1213	0.1	1.51	286	--	350	0.25	46	0.64	0.25	8	103	48	2.09	0.5	0.5	0.6	20	0.77	120	8	0.06	20	530	4	--	1	5	--	50	--	--	0.13	0.5	0.5	31	0.5	16
1491	0.1	1.24	170	--	210	0.5	4	3.21	0.25	7	80	12	1.81	0.5	0.5	0.43	20	0.57	175	4	0.02	19	390	8	--	2	3	--	156	--	--	0.07	0.5	0.5	25	0.5	34
1644	0.1	1.66	52	--	380	0.5	2	1.09	0.5	6	117	15	2.35	0.5	0.5	0.65	40	0.82	200	6	0.06	23	530	10	--	1	5	--	66	--	--	0.12	0.5	0.5	32	0.5	160
1662	0.1	1.44	254	--	290	0.5	8	1.08	4	9	91	18	2.45	0.5	0.5	0.58	50	0.55	580	6	0.07	32	520	18	--	4	4	--	59	--	--	0.1	0.5	0.5	23	10	392
51511	0.1	2.39	172	--	490	0.25	32	2	0.25	11	100	39	3.31	0.5	0.5	1.03	40	1.25	275	2	0.04	24	710	2	--	1	8	--	135	--	--	0.22	0.5	0.5	57	0.5	36
51584	0.1	1.29	146	--	420	0.25	42	1.42	0.5	6	70	24	2.26	0.5	0.5	0.58	20	0.77	215	9	0.02	18	470	24	--	4	5	--	101	--	--	0.13	0.5	0.5	31	0.5	174
51979	0.1	1.56	146	--	180	1	8	2.08	0.25	7	52	14	2.31	0.5	1	0.35	30	0.77	315	3	0.02	18	580	38	--	10	4	--	96	--	--	0.05	0.5	0.5	24	0.5	56
51990	0.1	1.83	102	--	280	1	4	1.24	0.25	7	52	17	2.33	0.5	1	0.44	40	0.73	275	2	0.02	23	560	18	--	8	5	--	47	--	--	0.08	0.5	0.5	27	0.5	340
52249	0.1	2.07	110	--	450	0.5	4	1.55	0.25	7	128	18	2.67	0.5	0.5	0.73	30	0.97	265	7	0.06	24	600	6	--	1	6	--	83	--	--	0.15	0.5	0.5	33	0.5	46
52251	0.1	1.49	144	--	180	0.5	16	1.32	0.25	8	129	32	2.48	0.5	0.5	0.34	30	0.46	195	6	0.04	24	580	8	--	6	4	--	61	--	--	0.04	0.5	0.5	28	0.5	24
52265	0.1	1.35	74	--	340	0.5	12	1.31	0.25	7	100	24	2.18	0.5	0.5	0.51	30	0.75	200	6	0.05	22	530	4	--	1	4	--	72	--	--	0.11	0.5	0.5	31	10	30
52491	0.1	1.52	88	--	400	0.25	10	0.29	0.25	9	66	69	2.73	0.5	1	0.68	40	1.04	150	0.5	0.03	20	690	4	--	1	6	--	25	--	--	0.13	0.5	0.5	41	10	16
52492	0.1	1.48	54	--	520	0.25	2	0.49	0.25	7	62	17	2.06	0.5	0.5	0.61	30	0.73	150	0.5	0.06	17	560	4	--	1	5	--	36	--	--	0.16	0.5	0.5	30	0.5	26
52496	0.1	1.93	138	--	640	0.25	30	0.5	0.25	9	93	46	2.66	0.5	0.5	0.87	40	0.99	155	0.5	0.12	21	690	2	--	1	7	--	81	--	--	0.21	0.5	0.5	41	10	20
52499	0.1	1.7	116	--	540	0.25	4	0.61	0.25	8	82	23	2.27	0.5	0.5	0.68	30	0.85	180	0.5	0.09	19	580	4	--	1	5	--	45	--	--	0.18	0.5	0.5	36	0.5	28
52608	0.1	2.07	308	--	510	0.5	82	0.64	0.25	8	140	53	2.41	0.5	0.5	0.75	30	0.88	125	5	0.11	21	560	8	--	1	6	--	69	--	--	0.16	0.5	0.5	36	0.5	18
52623	0.1	1.59	178	--	430	0.25	24	0.66	0.25	8	132	72	2.71	0.5	0.5	0.65	30	0.93	120	9	0.07	25	580	12	--	1	6	--	60	--	--	0.17	0.5	0.5	38	10	14
52642	0.1	1.88	98	--	400	0.25	42	0.96	0.25	10	183	43	2.35	10	0.5	0.73	40	0.88	110	7	0.14	23	580	8	--	1	7	--	78	--	--	0.12	0.5	0.5	37	0.5	12
52946	0.1	1.31	308	--	280	0.5	18	1.27	0.25	13	42	45	2.47	0.5	0.5	0.43	40	0.54	230	4	0.02	22	610	6	--	8	4	--	51	--	--	0.07	0.5	0.5	20	0.5	34
53229	0.1	1.54	160	--	380	0.25	180	0.31	0.25	8	76	33	2.24	0.5	0.5	0.66	30	0.73	135	7	0.03	21	570	4	--	1	5	--	37	--	--	0.13	0.5	0.5	29	0.5	24
70792	0.1	1.81	306	--	470	0.25	28	1.18	0.25	10	90	26	2.64	0.5	1	0.72	40	0.84	215	4	0.1	26	590	10	--	1	4	--	67	--	--	0.17	0.5	0.5	34	0.5	36

Appendix G2 - Low-Level Metals by Aqua Regia Digestion with ICP-MS Finish

Sample #	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	U	V	W	Zn
Units	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
71036	0.1	1.73	382	--	430	0.5	14	0.37	0.25	8	156	19	2.4	0.5	0.5	0.7	40	0.82	180	6	0.06	32	550	8	--	1	7	--	31	--	--	0.15	0.5	0.5	36	10	30
71058	0.1	1.58	452	--	480	0.25	48	0.71	0.25	8	95	47	2.51	0.5	0.5	0.75	40	0.85	190	5	0.09	28	550	6	--	1	7	--	59	--	--	0.17	0.5	0.5	35	20	32
72867	0.1	1.18	24	--	340	0.25	1	0.21	0.25	4	99	8	1.8	0.5	0.5	0.54	10	0.55	140	3	0.02	15	390	6	--	1	3	--	15	--	--	0.13	0.5	0.5	21	0.5	36
72893	0.1	4.15	206	--	300	0.5	1	1.41	0.25	14	103	32	3.9	10	0.5	1.4	30	1.47	430	3	0.33	17	660	2	--	1	7	--	150	--	--	0.19	0.5	0.5	72	0.5	46
75461	0.1	1.66	162	--	550	0.25	30	0.47	0.25	18	120	39	2.58	0.5	1	0.79	30	0.89	180	8	0.05	24	620	4	--	2	6	--	217	--	--	0.19	0.5	0.5	39	70	28
75616	0.1	1.64	446	--	510	0.25	12	0.63	0.25	15	75	50	2.68	10	0.5	0.75	40	0.85	170	7	0.09	23	500	4	--	4	7	--	48	--	--	0.2	0.5	0.5	36	20	28
75765	0.1	1.22	740	--	350	0.25	70	0.99	0.25	8	64	34	2.27	0.5	0.5	0.51	30	0.7	180	9	0.07	22	550	10	--	2	4	--	59	--	--	0.12	0.5	0.5	26	20	22
77006	0.1	1.37	128	--	340	0.25	6	0.31	0.5	7	102	21	2.14	0.5	0.5	0.46	40	0.5	105	4	0.02	19	540	4	--	2	4	--	20	--	--	0.06	0.5	0.5	21	0.5	38
79452	0.1	1.82	108	--	550	0.25	1	0.46	0.25	7	105	15	2.43	0.5	1	0.82	30	1.04	185	0.5	0.09	20	650	4	--	1	6	--	40	--	--	0.19	0.5	0.5	41	0.5	34
79453	0.1	1.85	184	--	560	0.25	12	0.51	0.25	8	102	45	2.32	0.5	0.5	0.81	30	0.97	115	0.5	0.13	20	590	2	--	1	7	--	65	--	--	0.18	0.5	0.5	39	20	14
79456	0.1	1.5	132	--	450	0.25	56	0.41	0.25	10	106	22	2.16	0.5	0.5	0.58	30	0.79	130	0.5	0.07	19	600	2	--	1	5	--	37	--	--	0.13	0.5	0.5	30	70	18
79457	0.1	1.27	90	--	280	0.5	20	0.96	0.25	8	75	20	2.1	0.5	0.5	0.37	30	0.71	150	0.5	0.03	19	570	6	--	1	4	--	37	--	--	0.09	0.5	0.5	30	0.5	24
79458	0.1	0.95	78	--	180	0.5	1	1.65	0.25	6	83	16	1.99	0.5	0.5	0.35	30	0.44	215	0.5	0.03	16	580	20	--	2	4	--	58	--	--	0.03	0.5	0.5	16	20	48
79459	0.1	1.12	106	--	370	0.25	14	0.24	0.25	7	82	23	2.18	0.5	0.5	0.42	30	0.68	185	0.5	0.03	18	600	4	--	1	4	--	16	--	--	0.1	0.5	0.5	31	20	26
79461	0.1	2.15	126	--	660	0.25	2	0.66	0.25	10	89	33	2.87	0.5	0.5	0.98	40	1.13	220	0.5	0.11	25	710	2	--	1	6	--	71	--	--	0.22	0.5	0.5	47	20	34
79464	0.1	1.2	108	--	300	0.25	1	0.49	0.5	6	68	22	1.92	0.5	0.5	0.45	30	0.54	230	0.5	0.04	16	610	48	--	6	4	--	24	--	--	0.07	0.5	0.5	19	0.5	176
KT-05	0.014	1.49	63.7	23	20	385.2	0.61	0.82	0.02	10.1	83.6	17.88	2.19	7.2	0.007	0.69	38.5	0.84	157	0.54	0.061	28.9	0.058	5.26	0.04	0.27	5.2	0.3	44.4	0.04	18.1	0.183	0.4	3.6	37	3.4	28.2
KT-06	0.042	0.95	398.4	213.5	20	247.1	3.39	1.48	0.03	10.8	52.1	25.49	2.02	4.2	0.018	0.4	37	0.61	191	1.37	0.052	20	0.058	8.16	0.19	3.55	4.2	0.8	129.8	0.16	18.6	0.081	0.24	5.9	18	8.8	34
G019218	1.1	0.45	105.8	100.4	20	126	1.1	1.47	0.1	7.3	123	30.4	1.73	2	0.01	0.23	35	0.3	158	4.8	0.026	19.7	0.056	8.4	0.05	4.4	3.8	0.8	70	--	17.9	0.029	0.2	4.4	15	42	24
G019220	0.1	0.71	96.6	19	20	163	0.5	1.54	0.1	7.6	130	23.8	1.85	4	0.01	0.33	35	0.56	190	3.2	0.038	19.9	0.058	7.2	0.11	3.8	4.2	0.6	113	--	17.9	0.056	0.2	4.1	19	15.8	26
G019227	0.1	1.3	30.2	4.6	20	187	0.1	0.93	0.1	6.4	129	13.3	1.93	7	0.02	0.56	27	0.71	204	2.4	0.03	13.3	0.051	8.6	0.05	0.4	3.4	0.5	39	--	15.2	0.107	0.4	5.9	28	0.1	30
G019232	0.1	2.56	31.9	10.2	20	205	2.2	1.29	0.1	12.5	119	19.5	3.19	9	0.01	0.93	39	1.31	473	2.5	0.205	13.5	0.083	4	0.29	0.2	5.7	0.6	136	--	16.5	0.23	0.5	4.2	70	0.6	34
G019233	0.1	2.79	24.2	48.2	20	386	4.5	1.58	0.1	12.2	134	26.5	3.25	9	0.01	1.1	38	1.47	523	3.4	0.192	13.1	0.08	4.3	0.36	0.8	7.5	1	145	--	16.6	0.242	0.5	5.9	73	0.5	33
G019234	0.1	1.75	167.6	52.8	20	424	6.4	1.08	0.1	10	150	12.7	2.59	8	0.01	0.92	44	1.08	364	3	0.11	14.9	0.068	6.1	0.07	0.5	5.1	0.5	87	--	20.5	0.25	0.6	5.6	49	0.9	47
G019260	0.1	1.58	297	31	20	431	8.2	0.75	0.1	8.3	135	41.3	2.44	7	0.01	0.78	37	0.82	180	3.5	0.11	22.4	0.064	4.1	0.05	0.7	4.7	0.8	55	--	14.8	0.183	0.4	2.5	34	13.7	35
G019262	0.2	1.33	535	96.4	20	341	9.7	0.85	0.4	11.6	135	115.3	2.22	6	0.01	0.57	37	0.64	226	4.6	0.092	20.3	0.063	16	0.13	8.9	3.9	1.6	53	--	15.6	0.147	0.4	3.6	26	7.7	109
1083	3.6	1.28	1430	--	100	1	30	0.32	1	10	170	38	2.33	0.5	0.5	0.35	20	0.18	60	6	0.005	24	570	264	--	54	3	--	98	--	--	0.005	0.5	0.5	11	0.5	364
1112	0.1	2.35	238	--	390	1	12	1.71	0.25	7	157	30	2.67	0.5	0.5	0.73	20	0.98	285	8	0.07	20	560	16	--	2	4	--	244	--	--	0.11	0.5	0.5	30	0.5	58
1143	0.1	0.72	170	--	100	1	11	2.44	0.25	9	22	37	2.02	0.5	0.5	0.17	40	0.39	190	2	0.03	23	650	8	--	8	4	--	248	--	--	0.005	0.5	0.5	18	0.5	26
1299	0.1	1.85	304	--	290	1	26	1.79	0.25	10	80	35	2.79	0.5	0.5	0.55	20	0.92	275	11	0.03	20	580	20	--	2	5	--	194	--	--	0.09	0.5	0.5	37	0.5	72
1342	0.1	1.39	222	--	400	0.5	30	1.21	0.25	7	95	32	2.39	0.5	0.5	0.61	20	0.78	215	9	0.05	21	500	18	--	1	4	--	101	--	--	0.13	0.5	0.5	33	10	60
1399	0.1	1.28	132	--	210	0.5	22	1.41	0.25	7	138	22	2.16	0.5	0.5	0.37	40	0.88	185	6	0.04	20	480	6	--	1	5	--	87	--	--	0.07	0.5	0.5	33	0.5	20
1441	0.1	1.14	64	--	140	0.5	4	2.35	0.25	6	54	21	2.07	0.5	0.5	0.26	20	0.65	215	5	0.02	18	490	12	--	1	3	--	120	--	--	0.05	0.5	0.5	23	0.5	38
1457	0.1	1.6	166	--	290	0.5	6	1.42	0.25	6	148	27	2.5	0.5	0.5	0.52	20	0.84	215	21	0.04	26	540	18	--	4	4	--	117	--	--	0.09	0.5	0.5	30	0.5	50
1496	0.1	1.51	58	--	460	0.25	18	1.41	0.25	8	77	11	2.34	0.5	0.5	0.58	30	0.89	240	4	0.02	24	540	6	--	1	6	--	80	--	--	0.15	0.5	0.5	35	0.5	46
1555	0.1	1.44	28	--	350	0.25	8	1.2	0.25	5	83	10	2.37	0.5	0.5	0.58	20	0.74	175	3	0.04	17	430	4	--	2	4	--	54	--	--	0.13	0.5	0.5	31	0.5	38
1694	0.1	1.46	182	--	370	0.5	2	1.54	0.25	12	91	12	2.23	0.5	0.5	0.65	60	0.77	200	3	0.07	21	490	14	--	1	4	--	91	--	--	0.16	0.5	0.5	30	100	44
51816	0.1	1.61	192	--	350	0.5	2	1.73	0.25	6	103	32	2.62	0.5	0.5	0.56	30	0.9	255	5	0.03	22	600	10	--	4	4	--	199	--	--	0.1	0.5	0.5	33	0.5	38
51920	0.1	1.76	74	--	370	1	12	2.53	0.25	8	80	18	2.99	10	1	0.63	40	1.06	385	5	0.02	14	610	10	--	2	7	--	126	--	--	0.13	0.5	0.5	49	0.5	40
51944	0.1	1.25	58	--	240	1	6	2.29	0.25	6	81	29	2.18	0.5	0.5	0.38	40	0.55	210	5	0.02	19	530	6	--	1	4	--	135	--	--	0.04	0.5	0.5	24	0.5	22
52162	0.1	2.06	22	--	520	0.5	2	1.06	0.25	7	129	15	3.18	0.5	0.5	0.93	40	1.12	380	12	0.11	17	560	12	--	1	6	--	59	--	--	0.22	0.5	0.5	45	0.5	54
70756	0.1	1.6	120	--	430	0.25	4	1.15	0.25	10	107	56	2.74	0.5	0.5	0.76	40	0.87	180	11	0.1	25	500	2	--	1	4	--	88	--	--	0.17	0.5	0.5	35	0.5	24
70935	0.1	1.63	1350	--	500	0.5	16	1.74	0.25	8	91	34	2.58	0.5	0.5	0.8	40	0.84	170	7	0.08	22	500	4	--	2	7	--	86	--	--	0.17	0.5	0.5	34	10	20
72903	0.1	1.8	78	--	430	0.25	4	0.93	0.25	8	101	19	2.79	0.5	0.5	0.77	30	0.98	300	4	0.08	11	610	6	--	1	4	--	54	--	--	0.18	0.5	0.5	41	0.5	48
75492	0.1	1.29	188	--	380	0.25	112	0.83	0.25	9	77	28	2.27	0.5	0.5	0.57	20	0.7	160	7	0.04	22	500	4	--	1	4	--	117	--	--	0.12	0.5	0.5	29	0.5	24
75565	0.1	1.46	208	--	480	0.25	26	1.19	0.25	12	79	68	2.92	0.5	0.5	0.77	30	0.9	235	32	0.07	23	530	4	--	1	6	--	80	--	--	0.18	0.5	0.5	37	140	38
75998	0.1	1.4	1915	--	320	0.5	10	0.97	0.25	12	79	42	2.29	10	0.5	0.71	50	0.82	180	6	0.08	28	450	4	--	1	7	--	52	--	--	0.14	0.5	0.5	34	30	20
76948	0.2	1.58	398	--	470	0.25	74	1.08	0.25	7	173	24	2.32	0.5	0.5	0.72	40	0.82	220	5	0.09	25	450	16	--	4	6	--	91	--	--	0.17	0.5	0.5	33	10	56
77366	0.1	1.19	328	--	310	0.25	28	1.39	0.25	8	78	34	2.47	0.5	0.5	0.49	20	0.82	155	8	0.03	22	520	22	--	1	4	--	95	--	--	0.11	0.5	0.5	31	0.5	50
77479	0.1	1.68	164	--	420	0.25	16	1.21	0.25	7	77	21	2.59	0.5	0.5	0.72	40	0.84	200	6	0.06	19	490	12	--	2	4	--	71	--	--	0.17	0.5	0.5	33	0.5	40
111085	0.1	1.47	44	0.37	--	310	10	1.1	0.25	8	27	22	2.39	5	0.5	0.55	40	0.79	205	0.5	0.06	18	550	10	--	1	5	--	95	--	--	0.12	5	5	28	5	58
111205	0.1	1.57	72	1.23	--	360	16	1.05	0.25	8	28	49	2.43	5	2	0.6	40	0.8	200	1	0.07	19	550	6	--	1	5	--	77	--	--	0.13	5	5	32	5	30
111485	0.1	1.33	56	0.1	--	300	1	1.7	0.25	6	20	28	2.24	5	0.5	0.54	40	0.68	180	1	0.05	16	580	6	--	1	5	--	118	--	--	0.1	5	5	24	5	24
112150	0.1	1.54	116	0.07	--	240	1	1.27	0.25	7	26	15	2.38	5	0.5	0.47	40	0.76	235	0.5	0.04	18	560	14	--	1	5	--	78	--	--	0.08	5	5	23	10	40
112447	0.1	1.83	32	0.07	--	420	1	1.06	0.25	7	137	11	2.26	5	0.5	0.7	50	0.86	165	4	0.09	21	500	1	--	1	6	--	92	--	--	0.18	5	5	37	30	22
111219	5.4	1.35	108	4.24	--	260	20	1.3	0.25	8	23	63	2.57	5	0.5	0.5	40	0.71	300	0.5	0.05	18	550	14	--	2	5	--	91	--	--	0.1	5	5	25	5	76
111367	0.1	1.63	102	1.87	--	390	30	0.99	0.25	7	30	40	2.31	5	0.5	0.68	40	0.79	195	4	0.09	18	530	2	--	1	5	--	76	--	--	0.15	5	5	33	40	28
111493	0.1	1.49	24	0.14	--	390	1	0.99	0.25	7	29	45	2.41	5	0.5	0.66	40	0.87	195	2	0.06	18	530	2	--	1	6	--	93	--	--	0.13	5	5	34	5	30
111511	0.1	1.26	186	0.53	--	270	8	1.61	0.25	9	23	75	2.42	5	1	0.53	40	0.73	195	1	0.04	18	550	10	--	1	5	--	132	--	--	0.08	5	5	27	5	22
111617	0.1	1.28	462	0.09	--	250	1	1.92	0.25	6	20	33	2.18	5	0.5	0.43	40	0.64	165	3	0.03	16	480	4	--	4	5	--	111	--	--	0.07	5	5	24	5	20
111624	2	0.47	1300	0.4	--	50	28	2.38	0.5	7	4	63	2.45	5	0.5	0.27	10	0.52	430	3	0.005	13	520	318	--	102	3	--	155	--	--	0.005	5	5	3	5	226
111794	0.1	1.51	440	0.035	--	290	2	1.33	0.25	10	29	35	2.48	5	0.5	0.48	40	0.84	235	1	0.04	17	540	8	--	1	5	--	91	--	--	0.1	5	5	30	5	36
111804	0.1	1.42	694	0.24	--	180	10	1.44	0.25	12	26	80	2.59	5	0.5	0.31	40	0.75	230	1	0.03	17	520	6	--	1	5	--	101	--	--	0.06	5	5	28	10	34
111809	0.1	1.63	410	0.29	--	250	10	0.96	0.25	11	29	49	2.58	5	0.5	0.42	40	0.8	230	1	0.04	19	530	6	--	1	6	--	78	--	--	0.12	5	5	31	5	44
111955	0.2	1.19	4060	2.57	--	120	40	1.67	0.25	8	15	29	2.39	5	0.5	0.29	30	0.39	255	2	0.03	18	520	38	--	10	4	--	82	--	--	0.02	5	5	12	5	42
111970	0.1	1.99	130	0.33	--	270	10	1.91	0.25	10	48	36	3.26	5	0.5	0.74	30	1.45	435	1	0.05	19	650	10	--	1	6	--	115	--	--	0.16	5	5	51	5	52
112127	0.1	1.84	132	0.2	--	430	4	0.89	0.25	8	34	40	2.53	5	0.5	0.78	40	0.89	160	1	0.12	19	560	4	--	1	6	--	83	--	--	0.18	5	5	34	30	20
112170	0.1	1.86	62	0.68	--	340	8	1.62	0.25	8	32	18	2.62	5	0.5	0.62	40	0.9	250	0.5	0.04	20	580	6	--	1	6	--	92	--	--	0.12	5	5	35	5	28
112235	0.1	1.65	182	1.14	--	260	20	2.02	0.25	7	106	31	2.29	5	0.5	0.49	40	0.87	240	1	0.05	23	560	10	--	1	5	--	117	--	--	0.12	5	5	30	5	18
112302	0.2	1.84	196	0.74	--	320	40	1.9	0.25	7	108	23	2.25	5	0.5	0.6	40	0.91	240	23	0.04	20	560	12	--	1	5	--	186	--	--	0.11	5	5	31	40	28
120181	0.4	0.81	300	1.67	--	120	42	1.77	0.5	7	10	28	1.85	5	0.5	0.38	30	0.3	300	8	0.04	14	440	44	--	18	3	--	104	--	--	0.005	5	5	8	5	122
120280	0.1	1.08	360	0.29	--	90	1	1.13	0.25	6	20	22	1.95	5	1	0.26	40	0.37	205	2	0.03	16	470	28	--	12	3	--	68	--	--	0.005	5	5	15	5	120
120296	0.2	0.98	902	0.09	--	160	1	0.83	0.5	7	21	44	2.55	5	1	0.38	40	0.25	315	4	0.02	19	540	122	--	22	4	--	44	--	--	0.01	5	5	13	5	284
120384	0.1	1.26	644	0.84	--	210	32	1.75	0.25	9	16	51	2.25	5	1	0.39	40	0.4	240	2	0.03	20	550	24	--	2	5	--	99	--	--	0.03	5	5	18	5	46
120421	0.1	1.68	436	0.11	--	410	12	0.54	0.25	13	29	87	2.54	5	0.5	0.66	40	0.8	200	1	0.06	19	540	4	--	1	6	--	59	--	--	0.14	5	5	35	5	32
120481	0.1	1.28	134	0.24	--	350	20	0.76	0.25	7	26	38	2.16	5	0.5	0.57	40	0.69	215	3	0.05	16	420	6	--	1	5	--	54	--	--	0.12	5	5	28	5	32
120498	0.1	1.6	112	0.28	--	400	18	0.64	0.25	8	30	18	2.45	5	0.5	0.68	40	0.77	225	0.5	0.06	18	480	6	--	1	5	--	138	--	--	0.17	5	5	31	5	42
120647	0.1	1.41	1880	0.71	--	360	6	1.4	0.25	6	27	38	2.57	5	0.5	0.6	40	0.83	200	8	0.04	18	480	10	--	4	5	--	113	--	--	0.1	5	5	30	5	26
120778	0.1	1.47	958	0.09	--	150	1	1.07	3	5	12	39	2.14	5	0.5	0.4	40	0.51	315	1	0.01	17	560	34	--	10	4	--	64	--	--	0.01	5	5	14	5	610
120822	2.4	1.4	1275	0.47	--	160	10	0.79	0.5	7	14	70	2.86	5	0.5	0.34	30	0.48	140	1	0.005	19	530	198	--	34	3	--	84	--	--	0.01	5	5	14	5	164
120912	0.1	1.67	814	0.43	--	250	8	0.76	0.25	7	20	31	2.02	5	0.5	0.41	50	0.58	145	1	0.02	19	540	8	--	4	5	--	156	--	--	0.04	5	5	21	5	26
121149	0.2	0.81	198	0.5	--	140	8	2.61	0.5	6	12	21	2.07	5	0.5	0.28	20	0.47	440	1	0.01	14	370	50	--	10	3	--	193	--	--	0.02	5	5	11	5	172

Appendix G2 - Low-Level Metals by Aqua Regia Digestion with ICP-MS Finish

Sample #	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	U	V	W	Zn
Units	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
121241	0.1	1.12	520	0.39	--	230	8	1.36	0.25	6	23	22	2.05	5	0.5	0.39	40	0.59	140	4	0.05	19	460	6	--	2	4	--	114	--	--	0.06	5	5	19	70	20
121369	0.1	1.14	300	0.32	--	210	6	1.01	0.25	5	25	24	1.88	5	0.5	0.46	20	0.65	150	2	0.05	9	350	2	--	1	4	--	57	--	--	0.07	5	5	23	10	20
121474	0.2	1.41	530	0.3	--	400	10	1.1	0.25	7	30	35	2.46	5	0.5	0.66	40	0.79	240	2	0.05	18	460	62	--	6	5	--	106	--	--	0.14	5	5	32	5	100
121495	0.1	1.19	188	0.16	--	220	2	1.81	0.25	6	20	25	2.26	5	0.5	0.39	30	0.59	345	2	0.03	15	470	38	--	6	4	--	190	--	--	0.06	5	5	21	5	110
121786	0.1	1.39	66	0.39	--	310	8	1.69	0.25	7	26	42	2.45	5	0.5	0.52	40	0.7	220	2	0.04	20	460	8	--	1	5	--	117	--	--	0.09	5	5	26	5	34
121939	0.1	1.79	112	0.27	--	370	8	1.27	0.25	8	38	12	2.34	5	0.5	0.74	40	1	235	1	0.07	16	520	8	--	2	5	--	94	--	--	0.15	5	5	41	5	32
121949	0.1	1.54	118	0.53	--	490	1	0.76	0.25	6	30	13	2.21	5	0.5	0.76	40	0.81	195	2	0.07	16	470	6	--	1	6	--	75	--	--	0.17	5	5	35	5	40
122253	0.1	1.73	66	0.19	--	340	6	1.55	0.25	8	37	15	2.52	5	0.5	0.59	40	0.94	220	1	0.04	19	550	4	--	1	6	--	76	--	--	0.13	5	5	36	5	24
122445	0.1	0.59	48	0.035	--	40	1	0.31	0.25	3	23	6	1.32	5	1	0.15	10	0.23	175	0.5	0.02	7	100	2	--	1	1	--	14	--	--	0.01	5	5	11	5	10
122626	0.1	1.77	38	0.15	--	60	2	0.96	0.25	11	41	30	2.55	5	0.5	0.54	30	0.6	210	1	0.01	27	140	2	--	1	4	--	75	--	--	0.04	5	5	34	5	38
122771	0.1	0.89	152	0.2	--	120	1	2.36	0.25	6	14	24	1.92	5	0.5	0.26	30	0.5	240	1	0.03	15	400	24	--	1	3	--	190	--	--	0.03	5	5	16	5	42
122785	0.1	0.49	66	0.13	--	50	1	2.94	0.25	6	12	28	2.19	5	0.5	0.13	30	0.53	230	1	0.04	16	380	12	--	1	3	--	262	--	--	0.005	5	5	15	5	32
122929	0.1	1.65	100	1.04	--	340	20	1.74	0.25	8	45	39	2.65	5	0.5	0.61	40	1.19	265	7	0.04	13	490	14	--	1	6	--	131	--	--	0.11	5	5	49	5	34
122959	0.1	1.33	116	1.95	--	240	28	1.56	0.25	7	20	19	2.1	5	0.5	0.42	40	0.65	195	4	0.03	17	470	24	--	1	4	--	122	--	--	0.06	5	5	23	5	56
122978	5.6	1.04	1735	0.59	--	60	18	1.53	4	10	6	96	4.02	5	0.5	0.3	10	0.34	285	4	0.01	15	420	360	--	14	2	--	90	--	--	0.005	5	5	7	5	764
123317	0.1	1.45	168	3.46	--	290	30	1.46	0.25	7	27	24	2.45	5	0.5	0.49	40	0.79	195	3	0.04	18	510	10	--	1	5	--	134	--	--	0.09	5	5	25	40	28
123697	0.1	1.37	178	0.49	--	370	38	0.72	0.25	8	32	31	2.3	5	0.5	0.63	40	0.82	140	1	0.04	19	490	4	--	1	5	--	77	--	--	0.13	5	5	31	5	18
123777	0.1	1.39	112	0.83	--	350	44	0.8	0.25	6	29	24	2.2	5	0.5	0.6	40	0.8	155	2	0.03	17	510	4	--	1	5	--	98	--	--	0.12	5	5	30	5	24
123906	0.1	1.43	454	0.47	--	310	20	0.78	0.25	9	39	52	2.51	5	0.5	0.54	40	0.75	205	3	0.04	17	480	20	--	1	5	--	58	--	--	0.1	5	5	27	5	38
123964	0.1	1.45	312	0.52	--	360	36	0.65	0.25	10	31	53	2.78	5	0.5	0.65	40	0.78	200	3	0.05	20	500	6	--	1	5	--	61	--	--	0.14	5	5	30	5	20
111005	0.2	1.23	484	0.3	--	210	14	1.43	0.25	6	17	23	2.37	5	0.5	0.41	40	0.41	260	1	0.04	17	560	22	--	10	4	--	45	--	--	0.04	5	5	17	5	114
09BGC-GTH-02a Int. 269.44-280.11	1316	0.62	1285.6	278.3	20	81.4	5.79	1.39	0.87	8.1	5.8	97.63	3.57	1.7	0.019	0.26	18.1	0.48	258	1.42	0.021	22	0.06	83.72	0.83	8.33	3.3	0.1	147.3	0.23	15.1	0.001	0.11	5.1	2	0.2	152.2
DG11-414C Int. 173.74-184.4	133	1.42	104.9	551.1	20	338.7	7.25	1.33	0.07	10.5	30.4	67.2	2.5	6.7	0.005	0.6	41.4	0.76	173	0.76	0.109	24.1	0.063	19.62	0.3	3.44	5.2	1.6	83.3	0.45	16.9	0.151	0.34	5.3	28	13.8	28
KT-03	0.092	1.2	70.9	246.2	20	267.1	10.16	1.2	0.05	7.2	67.1	23.23	1.9	6	0.005	0.44	37.8	0.68	168	2.42	0.066	20.7	0.059	13.08	0.14	2.36	4.1	0.7	77.4	1.11	18.4	0.131	0.24	6	26	16.4	23
KT-04	0.12	1.09	99	118.8	20	217	2.66	1.43	0.25	8.1	66.6	20.5	1.99	5.5	0.005	0.38	34.9	0.67	287	1.57	0.054	22	0.06	31.85	0.11	4.53	3.9	0.5	80.5	0.16	18.3	0.123	0.18	6.1	24	23.1	56.7
DG11-419C Int. 173.74-182.88	63	1.94	163.8	81.9	20	451.6	3.42	1.26	0.03	9	29.2	25.19	2.45	7.2	0.011	0.71	40.4	0.83	192	1.44	0.139	23.4	0.06	9.55	0.15	2.03	5.6	0.3	91	0.17	16.7	0.197	0.42	4.7	29	3.2	29.6
DG11-417C Int. 163.07-173.74	98	1.68	464.9	840.8	20	391.9	30.15	1.29	0.04	9.5	28.3	43.52	2.45	7.1	0.01	0.62	39.8	0.72	190	8.04	0.102	24.4	0.061	6.11	0.18	1.53	5.3	0.9	76.3	1.74	15.2	0.157	0.36	5.3	26	38.4	32.9
10BGC-GTH-05 Int. 118.9-123.9	39	1.46	367.6	78.8	20	379.9	6.92	1.63	0.02	9.1	83	66.14	2.43	6.9	0.019	0.62	40.9	0.81	168	2.06	0.059	24.5	0.064	5.68	0.34	0.51	5.4	1.6	106.8	0.3	17.1	0.135	0.38	4.8	29	14.6	27.6
G019205	0.1	1.81	465.4	73.7	20	527	6.9	0.82	0.1	13.8	150	31.5	2.42	8	0.01	0.85	40	1	154	3.4	0.095	24.3	0.072	4.7	0.05	0.5	5.8	0.9	78	--	17.1	0.248	0.5	2.7	44	6.6	37
G019206	0.1	1.36	552.7	81.7	20	356	59.3	1.44	0.1	11.8	145	46.8	2.23	7	0.01	0.56	43	0.73	155	3.2	0.033	22.2	0.057	7.3	0.05	1.4	4.2	1.2	84	--	19.2	0.145	0.4	3.5	31	1.9	30
G019221	0.1	0.93	123.8	59.6	20	171	0.3	1.33	0.1	8.6	127	19.6	1.78	4	0.01	0.35	37	0.51	196	2.9	0.035	19.9	0.058	7.5	0.08	3.2	3.9	0.5	75	--	19.3	0.063	0.2	5.3	19	1.5	31
G019228	0.1	1.43	17.1	10.5	20	294	0.4	1.16	0.1	6.2	131	13.5	2	7	0.02	0.64	36	0.82	298	2.7	0.053	9.9	0.05	6.8	0.06	0.6	4.4	0.5	66	--	18.7	0.149	0.4	5.6	32	1.7	39
G019229	0.1	1.18	89.8	10.9	20	237	1.6	1.4	0.1	6.9	126	19.2	2.1	6	0.01	0.39	38	0.67	202	3.3	0.042	20.5	0.057	8.8	0.1	2.3	3.7	0.5	93	--	18.7	0.092	0.2	5	26	0.4	31
G019241	0.1	1.09	633.7	48.3	20	245	10.5	1.39	0.1	9.3	153	43	2.01	6	0.01	0.41	35	0.65	159	3.9	0.038	20.9	0.051	10.1	0.29	1.1	3.7	2	109	--	18.8	0.095	0.3	7.1	26	12.8	23
G019242	0.1	1.27	107.4	41.9	20	324	2.6	1.15	0.2	7.8	155	46.3	2.18	6	0.01	0.58	40	0.75	206	4.6	0.065	22.7	0.055	7.3	0.25	3.3	4.8	1.4	97	--	18.6	0.145	0.4	5.6	31	15.1	57
G019251	0.1	1.33	189.4	92.8	20	361	2.4	0.97	0.2	9.3	144	28.8	1.92	6	0.01	0.63	34	0.64	151	4	0.099	21.6	0.05	5	0.17	1.2	4.4	0.7	80	--	18.2	0.171	0.4	6.5	28	100	70
10BGC-GTH-08 Int. 14.63-26.82	20	1.86	69.6	12.7	20	116	1.28	0.48	0.01	12.4	120.5	29.32	2.56	6.7	0.008	0.82	26.8	0.63	212	0.85	0.035	31	0.037	2.24	0.08	0.81	4.7	0.1	17.6	0.1	10.1	0.121	0.54	1	38	0.2	37.3
11BGC-GTH-10 Int. 10.36-20.12	55	2.31	17.8	1.6	20	164.5	0.14	0.18	0.06	11.6	47.2	27.23	3.28	7.4	0.01	1.09	27.5	0.73	261	0.4	0.047	31.4	0.056	8.89	0.09	0.25	4.9	0.1	10.6	0.02	11.3	0.135	0.58	1.2	37	0.2	58.9
DG11-417C Int. 24.38-35.05	17	1.4	50	55.9	20	78.5	1.45	0.81	0.03	5.8	34	16.09	1.76	4.9	0.007	0.44	24.4	0.28	135	0.85	0.044	15.5	0.019	2.84	0.02	0.38	3.3	0.1	36.6	0.07	9.1	0.068	0.25	0.9	25	22.1	16.9
DG11-419C Int. 21.47-27.43	20	2.8	54.6	5.1	20	166.8	0.44	0.43	0.02	13.6	55.3	22.85	3.84	9.1	0.005	1.58	30.7	1.01	331	0.81	0.047	36.4	0.073	3.63	0.02	0.29	6.3	0.1	16.5	0.02	13.4	0.212	0.98	1.4	49	0.3	51.7
DG11-419C Int. 37.72-42.1	251	1.97	81.3	4.1	20	144.4	0.27	0.37	4	15.5	37.8	33.21	3.75	6	0.036	0.79	35.6	0.48	591	1.09	0.027	34.3	0.052	11.51	0.02	30.41	5.4	0.1	16.4	0.02	12.8	0.097	0.45	1.8	32	0.2	816.4
10BGC-GTH-06 Int. 158.16-168-83	42	2.49	14.7	6.6	20	242.1	0.11	0.65	0.01	17.1	147.7	32.46	3.82	8.7	0.008	1.13	16.9	0.93	245	0.78	0.028	43.8	0.038	3.04	0.24	1.77	7.3	0.1	52.1	0.02	6.6	0.204	0.57	0.8	55	0.2	62.3
11BGC-GTH-10 Int. 146.1-156.67	157	2.95	347.2	8.7	20	242.6	0.2	0.67	0.06	28.7	100.8	72.84	4.92	8.7	0.009	1.24	14.9	1.13	327	0.67	0.052	69.1	0.073	10.19	0.59	1.87	7.7	0.6	36.8	0.07	3.7	0.201	0.61	0.4	67	0.2	69.3
11BGC-GTH-10 Int. 49.35-59.95	52	1.99	17.8	5.8	20	125.7	0.14	0.62	0.01	11.5	43.7	21.94	2.79	6.6	0.006	0.93	23.2	0.62	214	0.4	0.036	30.8	0.025	2.12	0.12	0.48	4.5	0.1	16.5	0.02	9.7	0.127	0.55	1.2	35	0.2	35.3
11BGC-GTH-10 Int. 99.52-110.79	35	2.38	22.5	9	20	174.7	0.29	0.72	0.01	14.2	50.6	32.63	3.14	8.3	0.012	0.94	23.5	0.82	215	0.51	0.063	34.8	0.031	3.79	0.22	0.35	5.7	0.1	47.1	0.05	9.7	0.157	0.49	1.2	47	7.1	53.1
11BGC-GTH-12 Int. 120.78-130.91	16	1.17	11.9	0.2	20	70.5	0.06	0.38	0.02	7.4	26.1	14.18	1.95	3.7	0.006	0.39	17.6	0.33	221	0.39	0.027	15.8	0.017	5.09	0.07	0.96	2.4	0.1	16.8	0.02	7.4	0.039	0.21	0.8	16	0.1	27.3
11BGC-GTH-12 Int. 160.93-170.08	68	1.89	25.3	5.1	20	108.5	0.17	1.26	0.11	10.1	31.4	17.48	2.6	6	0.007	0.6	18.2	0.6	330	0.58	0.029	24.6	0.023	8.87	0.24	2.88	4.1	0.1	41.2	0.02	8.4	0.064	0.29	0.9	28	1.7	35.5
11BGC-GTH-12 Int. 192.94-202.08	1543	1.06	1962.5	70	20	123.1	1.46	0.66	1.78	14.9	25.6	106.04	4.58	3.3	0.051	0.55	11.7	0.64	933	0.66	0.01	50.5	0.07	257.37	1.23	33.56	3.9	0.6	38	0.02	5	0.01	0.29	0.5	15	0.4	288.4
11BGC-GTH-12 Int. 63.55-73.5	15	0.96	11.6	0.7	20	59.8	0.05	0.32	0.01	5.3	26.8	12.65	1.61	3.1	0.005	0.35	14.9	0.26	163	0.37	0.028	12.4	0.012	2.82	0.1	0.37	2.2	0.1	12.8	0.02	6.8	0.043	0.19	0.6	15	0.1	22.6
11BGC-GTH-12 Int. 99.97-110.11	30	1.85	48.8	4.4	20	150.8	0.21	0.49	0.01	10.7	41.5	24.54	2.89	5.9	0.005	0.87	18	0.6	228	0.44	0.048	27	0.022	2.23	0.19	0.27	4.4	0.1	18.1	0.07	8.5	0.124	0.5	0.8	36	0.3	36.5
DG11-414C Int. 62.48-73.15	72	2.49	998.1	78	20	189.3	3.07	0.85	0.04	20.4	58.3	70.51	4.24	8.2	0.005	0.98	28.3	0.84	241	1.5	0.048	80	0.063	3.62	0.15	1.98	6.8	0.3	40.9	0.14	10.4	0.144	0.59	2.2	49	13.6	51.7
DG11-414C Int. 73.15-82.3	4490	1.5	698.5	2399.7	20	148.8	23.42	0.43	0.27	12.3	36.3	57.92	3.93	5.4	0.025	0.81	26.4	0.48	510	3	0.028	35.2	0.049	202.52	0.15	14.52	4.8	0.2	80.5	0.7	10.1	0.074	0.52	2.4	29	4.8	81
11BGC-GTH10 Int. 146.1-156.67	168	2.78	358.7	14.1	20	192.8	0.29	0.65	0.07	32.4	174.5	71.17	4.72	8.3	9	1.21	10.5	1.12	295	0.82	0.05	71.3	0.075	12.57	0.64	3.29	7.5	0.7	40.3	0.06	3.6	0.182	0.58	0.4	67	0.3	69.6
G019204	0.1	3.51	976.3	365.6	20	147	45.3	2.18	0.1	20.4	140	157.2	4.14	12	0.03	0.88	31	0.89	249	4.5	0.152	35.9	0.039	3.3	0.05	0.8	7	2.8	130	--	12.7	0.166	0.6	3.5	68	100	52
G019208	0.1	1.4	176	53.5	20	388	18.6	1.19	0.1	9.9	148	40.9	2.18	7	0.01	0.62	42	0.75	172	3.6	0.057	21.1	0.057	5.6	0.05	0.7	4.5	1.3	74	--	20.2	0.173	0.5	3.8	32	0.6	30
G019211	0.1	1.36	285.1	119.4	20	324	36.1	0.72	0.1	11.2	146	93.3	2.27	6	0.01	0.53	39	0.71	143	4.6	0.053	22	0.053	7.8	0.05	2.5	4.1	1.2	81	--	18.3	0.147	0.4	4.4	30	0.4	31
G019215	1.3	0.97	602.2	236.4	20	130	21.9	0.43	2.7	10.9	118	167.1	3.03	5	0.05	0.33	27	0.41	270	8.1	0.024	19.8	0.057	219.5	0.13	78.9	3	3.1	86	--	16.1	0.033	0.2	5.8	15	0.8	503
G019236	0.1	3.58	540.1	92.4	20	219	4.9	1.75	0.1	16.4	121	65.1	3.38	11	0.01	1.08	21	0.86	154	1.8	0.113	43.2	0.035	4.4	0.32	0.4	5.1	1.2	94	--	10.1	0.19	0.6	1.5	52	100	55
G019237	0.1	3.02	584.1	233.4	20	109	8.7	1.85	0.1	11.6	134	67.6	2.57	9	0.01	0.63	33	0.53	140	3.5	0.107	36.2	0.053	4.4	0.05	2.8	4.4	0.8	100	--	12	0.091	0.6	2	37	100	31
G019239	0.1	1.13	89.4	10	20	53	4.1	0.69	0.2	10.9	138	31.5	2.59	4	0.01	0.61	16	0.55	260	2.7	0.012	32.1	0.039	13.3	0.3	7	3.2	0.5	42	--	9.1	0.072	0.4	1.8	29	1.3	72
G019240	0.1	0.64	81.6	4.1	20	34	0.3	0.82	0.1	8.8	162	17.2	2.27	2	0.01	0.27	17	0.42	295	5.6	0.011	19.6	0.125	9.3	0.1	4.8	2.6	0.5	68	--	8.7	0.016	0.2	1.6	15	1.6	34
51752	0.1	2.63	64	--	120	0.5	4	1.56	0.25	11	152	39	2.6	0.5	0.5	0.79	20	0.68	255	7	0.07	28	400	1	--	1	6	--	55	--	--	0.11	0.5	0.5	48	0.5	28
51754	0.1	2.55	26	--	160	0.5	1	0.65	0.25	12	113	26	3.67	0.5	0.5	0.91	20	0.83	515	6	0.02	31	270	2	--	2	6	--	25	--	--	0.1	0.5	0.5	49	0.5	68
52066	0.1	3.83	36	--	310	0.5	2	0.67	0.25	14	109	26	4.41	0.5	0.5	1.83	40	1.61	230	3	0.07	45	400	1	--	1	8	--	39	--	--	0.24	0.5	0.5	62	0.5	62
52084	0.1	1.87	48	--	100	0.25	1	0.24	0.25	10	112	23	2.95	0.5	0.5	0.98	20	0.71	150	3	0.02	29	280	1	--	1	4	--	11	--	--	0.14	0.5	0.5	47	0.5	30
52106	0.1	2.46	28	--	80	1	1	0.6	0.25	12	132	27	3.44	0.5	0.5	0.7	40	0.84	300	3	0.02	31	190	8	--	1	4	--	20	--	--	0.04	0.5	0.5	38	0.5	52
52139	0.1	3.21	84	--	150	0.5	2	0.63	0.25	16	125	56	3.66	0.5	0.5	1.36	30	1.42	455	6	0.06	41	490	12	--	1	8	--	38	--	--	0.19	0.5	0.5	54	0.5	44
52154	0.1	2.62	14	--	130	0.5	1	0.45	0.25	11	126	29	3.65	0.5	0.5	1.16	30	0.86	310	5	0.02	31	180	8	--	1	7	--	18	--	--	0.17	0.5	0.5	53	0.5	52
52198	0.1	0.77	28	--	20	0.25	1	0.58	0.25	4	195	17	1.64	0.5	0.5	0.16	10	0.25	160	11	0.02	16	100	4	--	1	1	--	17	--	--	0.01	0.5	0.5	20	0.5	12
52207	0.1	0.77	128	--	30	0.25	1	0.13	0.25	6	79	25	1.66	0.5	0.5	0.24	10	0.24	215	10	0.02	23	100	2	--	2	2	--	11	--	--	0.02	0.5	0.5	16	130	48
52218	0.1	1.75	50	--	90	0.25	1	0.09	0.25	10	92	19	3.2	0.5	0.5	0.97	10	0.68	205	6	0.01	27	170	1	--	1	5	--	6	--	--	0.13	0.5	0.5	49	0.5	62
52493	0.1	2.09	62	--	120	0.25	1	0.19	0.25	11	66	42	3.7	0.5	0.5	1.16	30	0.86	165	0.5	0.01	29	690	2	--	1	3	--	10	--	--	0.16	0.5	0.5	39	0.5	34
52494	0.1	3.08	70	--	170	1	1	0.11	0.25	15	90	41	4.55	0.5	0.5	1.42	40	1.03	325	0.5	0.02	37	310	2	--	1	6	--	13	--	--	0.19	0.5	0.5	59	0.5	84
52495	0.1	4.46	68	--	270	0.5	1	1.28	0.25	12	89	51	4.33	10	0.5	1.64	40	1.23	265	0.5	0.12	36	480	4	--	1	9	--	68	--	--	0.22	0.5	0.5	75	0.5	78
52497	0.1	1.52	46	--	90	0.25	1	0.05	0.25	8	106	18	2.53	0.5	0.5	0.7	20	0.62	255	0.5	0.01	19	140	2	--	1	3	--	7	--	--	0.1	0.5	0.5	30	0.5	40
52498	0.1	2.54	200	--	130	0.25	2	0.6	0.25	12	111	47	2.96	0.5	0.5	0.92	10	0.72	195	0.5	0.09	28	300	4	--	1	6	--	32	--	--	0.14	0.5	0.5	49	10	28
52500	0.1	0.74	14	--	50	0.25	1	0.06	0.25	3	157	10	1.29	0.5	0.5	0.29	10	0.32	170	0.5	0.02	10	130	2	--	1	2	--	4	--	--	0.04	0.5	0.5	17	10	18
70869	0.1	4.5	144	--	360	0.25	14	1.66	0.25	19	108	142	3.74	10	0.5	1.22	20	1.05	210	6	0.17	38	450	180

Appendix G2 - Low-Level Metals by Aqua Regia Digestion with ICP-MS Finish

Sample #	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	U	V	W	Zn
Units	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
72910	0.1	1.13	306	--	220	0.25	36	0.88	0.25	11	96	20	1.83	0.5	0.5	0.43	20	0.47	135	3	0.02	18	370	2	--	1	3	--	52	--	--	0.06	0.5	0.5	16	0.5	16
75920	0.1	1.77	94	--	110	0.25	2	0.19	0.25	9	147	17	2.93	0.5	0.5	0.86	30	0.7	330	8	0.04	29	240	2	--	1	5	--	11	--	--	0.11	0.5	0.5	39	0.5	38
75946	0.1	2.45	1930	--	110	0.5	56	1.38	0.25	15	114	74	2.67	10	0.5	0.72	30	0.74	185	13	0.06	33	420	2	--	1	6	--	62	--	--	0.09	0.5	0.5	40	1080	26
77175	0.1	2.32	482	--	130	0.5	10	0.92	0.25	19	84	67	3.87	0.5	0.5	0.87	20	0.71	305	4	0.02	41	500	4	--	4	6	--	30	--	--	0.11	0.5	0.5	44	10	56
77178	0.1	1.74	426	--	110	0.5	26	1.14	0.25	10	156	46	2.58	0.5	0.5	0.61	10	0.56	225	7	0.04	25	170	8	--	1	4	--	41	--	--	0.08	0.5	0.5	32	140	36
77223	0.1	2	62	--	160	0.25	1	0.58	0.25	11	100	23	3.37	0.5	0.5	1.13	10	0.83	245	7	0.01	32	340	6	--	2	6	--	19	--	--	0.17	0.5	0.5	49	0.5	48
77383	0.4	3.03	72	--	210	1	1	0.53	0.25	15	141	27	4.69	20	0.5	1.48	40	1.11	530	2	0.02	42	400	4	--	4	7	--	19	--	--	0.17	0.5	0.5	60	0.5	88
77406	0.1	0.55	62	--	10	0.25	1	1.06	0.25	3	88	14	1.16	0.5	0.5	0.11	20	0.15	230	5	0.01	11	140	1	--	2	1	--	25	--	--	0.005	0.5	0.5	12	0.5	18
78402	0.1	2.73	174	--	200	0.5	1	0.2	0.25	15	108	18	4.2	0.5	0.5	1.55	30	0.89	285	3	0.02	37	380	2	--	1	6	--	9	--	--	0.18	0.5	0.5	62	0.5	70
78449	0.1	0.51	192	--	20	0.25	1	0.67	0.25	5	71	15	1.46	0.5	0.5	0.25	10	0.12	140	7	0.01	14	120	2	--	2	1	--	20	--	--	0.01	0.5	0.5	10	0.5	24
78471	0.1	1.8	452	--	110	0.5	2	0.99	0.25	12	90	31	3.22	0.5	0.5	0.85	10	0.74	235	6	0.01	25	340	6	--	1	6	--	51	--	--	0.1	0.5	0.5	60	80	52
79451	0.1	2.05	28	--	200	0.25	1	0.11	0.5	10	116	21	3.71	0.5	0.5	0.87	20	0.74	360	1	0.01	22	300	6	--	4	4	--	10	--	--	0.11	0.5	0.5	38	0.5	172
79454	0.1	2.14	26	--	140	0.25	1	0.18	0.25	7	139	19	2.96	0.5	0.5	1.03	30	0.81	275	0.5	0.03	20	220	2	--	1	4	--	12	--	--	0.14	0.5	0.5	44	0.5	44
79455	0.1	2.25	42	--	150	0.5	1	0.13	0.25	15	91	18	3.32	0.5	0.5	0.93	50	0.8	150	0.5	0.02	29	480	1	--	1	3	--	12	--	--	0.11	0.5	0.5	43	0.5	42
79460	0.1	3.1	502	--	160	0.5	4	1.16	0.25	12	86	32	2.9	0.5	0.5	0.96	20	0.85	155	0.5	0.09	30	300	2	--	1	5	--	98	--	--	0.13	0.5	0.5	48	120	44
79462	0.1	0.72	200	--	90	0.25	22	0.09	0.25	3	132	12	1.16	0.5	0.5	0.14	10	0.26	140	0.5	0.01	9	110	14	--	1	1	--	9	--	--	0.005	0.5	0.5	14	0.5	52
79463	0.1	2.43	108	--	140	0.5	1	0.24	0.25	12	86	32	3.6	0.5	1	0.96	30	0.82	300	0.5	0.02	32	460	2	--	1	6	--	13	--	--	0.12	0.5	0.5	52	0.5	58
111270	0.1	2.5	164	0.015	--	90	1	1.01	0.25	12	154	18	3.23	5	0.5	0.95	40	0.9	395	0.5	0.02	28	220	6	--	1	6	--	41	--	--	0.08	5	5	47	5	58
111554	0.1	0.81	54	0.015	--	30	1	0.09	0.25	3	273	7	1.09	5	1	0.24	30	0.25	55	0.5	0.03	12	70	4	--	1	1	--	10	--	--	0.01	5	5	18	5	12
111662	0.1	2.91	528	0.21	--	150	6	0.21	0.25	13	55	30	3.62	5	0.5	1.33	70	0.92	155	0.5	0.02	31	210	2	--	1	7	--	15	--	--	0.13	5	5	59	5	60
111833	0.1	0.62	318	0.015	--	30	1	0.65	0.25	10	59	14	1.57	5	0.5	0.28	40	0.16	160	1	0.005	18	140	4	--	1	2	--	9	--	--	0.005	5	5	11	5	30
111996	0.1	1.02	632	0.04	--	90	1	1.29	0.25	9	131	19	2.54	5	0.5	0.46	30	0.28	245	1	0.03	24	420	10	--	2	4	--	108	--	--	0.005	5	5	12	5	42
111310	0.1	0.45	48	0.035	--	10	1	0.08	0.25	2	25	7	0.88	5	0.5	0.12	10	0.12	65	0.5	0.02	4	50	2	--	1	1	--	9	--	--	0.005	5	5	10	10	4
111577	0.1	1.17	232	0.07	--	50	1	0.97	0.25	6	216	16	1.44	5	0.5	0.39	30	0.31	185	6	0.01	17	880	1	--	2	3	--	36	--	--	0.03	5	5	25	5	16
111702	0.1	1.62	352	0.035	--	70	1	0.53	0.25	8	41	16	2.24	5	0.5	0.75	20	0.67	170	3	0.03	20	100	2	--	1	5	--	19	--	--	0.09	5	5	37	40	26
112462	0.1	1.3	10	0.035	--	60	1	0.35	0.25	5	205	13	1.91	5	0.5	0.41	10	0.44	185	4	0.03	16	50	1	--	1	3	--	30	--	--	0.06	5	5	26	5	26
120109	0.1	1.06	50	0.015	--	50	1	0.13	0.25	6	207	11	1.75	5	0.5	0.49	20	0.35	125	1	0.03	17	220	2	--	2	4	--	6	--	--	0.06	5	5	29	5	18
120119	0.1	1.26	518	0.015	--	60	1	0.27	0.25	13	157	48	1.97	5	0.5	0.42	60	0.16	215	5	0.01	28	760	24	--	12	4	--	15	--	--	0.005	5	5	18	5	168
120224	0.1	2.2	54	0.015	--	110	1	0.09	0.25	12	136	16	3.27	5	0.5	1.12	40	0.76	350	1	0.01	28	140	4	--	2	6	--	8	--	--	0.14	5	5	49	5	58
120314	0.1	1.03	24	0.015	--	40	1	0.06	0.25	6	169	11	1.68	5	0.5	0.48	20	0.35	170	2	0.01	17	120	2	--	1	3	--	6	--	--	0.05	5	5	22	5	28
120680	0.1	2.87	60	0.015	--	150	2	0.19	0.25	12	184	23	4.02	5	0.5	1.57	20	1.1	340	0.5	0.02	34	210	2	--	1	7	--	11	--	--	0.19	5	5	62	5	64
120878	0.6	0.29	128	0.015	--	30	1	0.04	0.25	3	183	19	0.97	5	0.5	0.18	10	0.04	265	1	0.005	11	80	28	--	12	0.5	--	3	--	--	0.005	5	5	3	5	86
121036	0.1	0.79	58	0.2	--	30	6	0.52	0.25	3	28	16	1.34	5	0.5	0.19	10	0.28	105	1	0.03	10	70	2	--	1	2	--	22	--	--	0.04	5	5	17	5	10
121174	0.1	1.64	246	0.015	--	110	1	0.21	0.5	10	163	18	2.47	5	0.5	0.69	30	0.5	235	1	0.03	30	460	6	--	6	4	--	15	--	--	0.04	5	5	30	5	128
121207	0.1	0.36	254	0.11	--	10	2	0.1	0.25	4	16	10	1.35	5	0.5	0.1	10	0.07	120	2	0.005	10	100	4	--	1	1	--	14	--	--	0.005	5	5	6	5	46
121527	0.1	2.62	602	0.08	--	190	2	0.78	0.25	12	56	27	3.45	5	0.5	1.25	30	0.88	275	0.5	0.04	31	220	2	--	1	7	--	35	--	--	0.16	5	5	56	10	56
121827	0.1	1.76	26	0.035	--	90	1	0.19	0.25	8	37	19	2.72	5	0.5	0.74	30	0.55	390	1	0.01	20	390	4	--	2	4	--	11	--	--	0.07	5	5	32	5	38
121954	0.1	1.09	52	0.035	--	70	1	0.19	0.25	5	29	8	1.69	5	0.5	0.45	10	0.39	140	0.5	0.03	12	80	2	--	1	3	--	14	--	--	0.05	5	5	23	5	32
122008	0.1	2.31	60	0.035	--	120	1	0.15	0.25	11	57	22	3.5	5	0.5	1.21	30	0.83	220	0.5	0.01	32	260	1	--	1	6	--	16	--	--	0.15	5	5	61	5	48
122109	0.1	1.13	70	0.5	--	190	6	1	0.25	7	26	22	2.51	5	0.5	0.34	30	0.55	365	1	0.03	20	400	18	--	2	3	--	51	--	--	0.05	5	5	23	5	56
123238	0.1	3.18	218	0.015	--	220	1	0.46	0.25	17	182	35	4.02	10	0.5	1.6	40	1.3	350	0.5	0.03	45	240	4	--	1	7	--	18	--	--	0.18	5	5	62	5	62
KT-01	0.014	2.35	29.8	1.7	20	107.4	0.24	0.4	0.02	18.5	93.2	37.37	3.59	8.4	0.005	1.37	19.3	1.04	439	0.88	0.028	41	0.045	3.24	0.13	0.41	6	0.3	26.9	0.04	7.8	0.203	0.9	1.5	49	0.4	59.5
KT-02	0.046	1.94	47.4	8.6	20	104.5	0.28	0.54	0.04	15.2	92.3	32.4	3.11	6.8	0.005	0.99	17.2	0.86	396	1.29	0.031	35.1	0.027	17.12	0.18	0.76	4.6	0.3	35.9	0.04	8.7	0.148	0.63	1.8	43	0.3	51.8
ST-01	0.181	1.13	89	14.6	20	70.9	0.56	0.39	2.45	9.3	83.7	20.08	2.12	4.1	0.052	0.66	21.5	0.42	296	1.88	0.012	23.3	0.02	42.93	0.07	43.28	3.6	0.2	12.2	0.02	10.3	0.107	0.38	1.6	27	0.9	418.1
ST-02	0.106	0.59	382.8	97.8	20	48	3.8	0.36	0.72	7.4	84	15.47	1.39	2.1	0.011	0.22	18.4	0.21	187	0.71	0.01	14.9	0.012	10.62	0.04	43.03	2.1	0.5	26.3	0.19	8.3	0.017	0.15	1.1	10	3	249.5
ST-03	0.171	1.37	432	34.2	20	117.9	0.67	0.57	5.77	21.8	59.8	27.48	3.8	4.4	0.029	0.7	32.4	0.51	733	1.28	0.012	53.1	0.042	150.21	0.18	111.16	4	0.3	45.7	0.04	13.7	0.058	0.44	3.1	23	6.6	1209.3
ST-04	0.373	0.49	143.8	62.9	20	70.7	0.76	1.02	20.27	11.7	62.7	42.56	2.45	1.2	0.052	0.32	20.7	0.31	1148	1.49	0.006	26.8	0.027	159.24	0.3	94.14	2	0.3	73.4	0.03	10.1	0.002	0.2	2.3	5	0.7	2999.3
ST-05	0.028	0.91	93.3	344.5	20	60.9	18.46	0.31	0.19	8.4	99.4	9.71	1.78	3.4	0.008	0.44	22.2	0.36	254	0.97	0.017	20.3	0.013	7.35	0.04	18.09	2.8	0.2	31.8	0.68	10.3	0.045	0.25	1.3	17	1.6	113.2
ST-06	0.014	0.57	305.6	65.3	20	57.2	1.95	0.59	0.04	6.7	103.4	6.31	1.15	2.3	0.005	0.28	20.2	0.28	127	2.57	0.027	12.7	0.02	4.58	0.05	4.19	2	0.4	41.5	0.12	9.7	0.033	0.15	1.2	10	44	23
ST-07	0.019	2.11	99.2	21.4	20	162.6	1.86	0.86	0.05	16.1	64.8	30.6	3.75	7.4	0.01	1.1	20.3	0.9	245	2.29	0.028	28.3	0.128	5.49	0.21	7.45	6.6	0.4	50.1	0.05	10.8	0.167	0.61	2.3	68	0.9	54.8
ST-08	0.01	1.15	20.7	42.2	20	48	0.52	0.31	0.02	7.7	86.1	18.29	1.86	4.5	0.005	0.55	15.5	0.47	216	1.29	0.015	19.1	0.02	2.57	0.07	0.81	2.8	0.2	27.1	0.04	7.4	0.085	0.35	1.2	25	0.2	30.9
ST-09	0.011	0.71	11.8	6.8	20	28.5	0.33	0.28	0.03	5.4	92.7	11.24	1.15	2.9	0.005	0.22	14.2	0.28	115	0.38	0.02	14	0.017	1.45	0.04	0.49	1.9	0.1	23.3	0.02	7.7	0.029	0.12	1.1	20	0.1	14.6
ST-10	0.021	2.11	8.7	12.6	20	126.1	0.72	0.61	0.01	12.8	89.8	25.1	2.46	7.4	0.005	0.75	19.7	0.64	227	0.67	0.05	32.7	0.024	1.89	0.13	0.41	5.5	0.3	62.8	0.07	8.1	0.146	0.41	1.4	46	0.3	39.4
ST-11	0.065	3.67	13.5	127	20	208.6	2.93	1.43	0.03	19.6	94	60.11	3.4	11.3	0.005	1.15	15.2	1.33	422	1.28	0.109	37.1	0.04	2.82	0.35	0.22	7.8	1	115.8	0.2	6.6	0.213	0.63	2.2	56	0.3	54.6
ST-12	0.044	3.11	22.7	65.2	20	140.7	0.81	1.7	0.03	16	84.4	41.45	3.21	10	0.005	1.01	18.3	1.23	462	1.34	0.107	35.7	0.034	3.06	0.19	0.18	5.4	0.5	124.9	0.08	7	0.175	0.6	1.2	49	0.2	44.6
ST-13	0.017	2.44	37.2	27.8	20	117.2	0.42	0.59	0.02	18.1	90.8	36.4	3.57	8.6	0.005	1.2	23.3	1.1	272	0.74	0.043	37.7	0.04	3.77	0.1	0.5	6.7	0.4	45.5	0.06	7.7	0.191	0.67	1.6	51	0.4	48.4
ST-14	0.021	1	33.5	38.2	20	178.2	0.45	0.57	0.05	7.5	84.3	6	1.38	5.1	0.005	0.44	29.6	0.6	105	2.94	0.045	18.3	0.033	4.12	0.02	0.44	3.6	0.1	42.7	0.02	13.4	0.119	0.23	3.4	26	0.2	14.4
ST-15	0.021	1.28	65.2	10.1	20	62.2	0.17	0.4	0.03	12.2	88.1	15.76	2.18	5.1	0.006	0.6	18.8	0.57	254	1.26	0.023	23.3	0.018	6	0.06	0.52	3.2	0.2	27.3	0.03	9.6	0.104	0.35	1.6	26	0.2	34.7
ST-16	0.035	2.47	45.1	239.2	20	80.8	2.51	2.17	0.04	13.7	70.1	49.46	2.48	7.7	0.005	0.67	18.1	0.96	325	4.31	0.097	29.8	0.039	3.49	0.24	0.28	4.3	0.6	126	0.15	7.7	0.119	0.4	1	33	0.4	34.1
ST-17	0.013	1.27	42.3	20.9	20	88.1	2.66	0.6	0.03	9.3	86.2	20.35	2.43	5.2	0.005	0.6	19.3	0.62	256	0.9	0.023	20.7	0.021	5.2	0.14	0.61	3.2	0.2	33	0.29	9.8	0.103	0.39	2.4	24	0.4	36.3
ST-18	0.026	1.89	35.7	10.9	20	88.7	0.34	0.78	0.02	15.4	88.5	33.11	3.1	7.4	0.005	0.89	22.2	0.76	268	0.75	0.018	37.5	0.015	3.98	0.09	0.97	5.2	0.4	60.1	0.04	9.4	0.148	0.53	1.6	45	0.3	38.7
ST-19	0.036	1.24	16.2	14.2	20	45.2	0.25	0.58	0.02	9.8	87.8	18.47	2.02	5.1	0.005	0.43	22.4	0.48	162	0.7	0.019	23.9	0.014	4.16	0.06	0.66	3.4	0.3	52.5	0.03	10.9	0.066	0.26	1.5	31	0.2	22.8
ST-20	0.022	1.69	27.2	6.5	20	127.2	0.59	1.71	0.03	11.2	75	25.94	2.49	8.8	0.005	0.47	36.5	0.68	266	3.34	0.027	29.9	0.041	6.39	0.06	1.11	4.7	0.3	158.9	0.04	14	0.084	0.34	2.7	35	0.1	35.6
G019202	0.1	2.32	70.4	3.2	20	99	0.2	0.23	0.1	12.2	145	23.3	3.24	8	0.01	1.35	23	0.85	204	2	0.028	32.8	0.012	2.2	0.05	0.3	5.3	0.6	14	--	10.9	0.202	0.7	1.3	55	0.3	50
G019216	1.9	1.25	48.9	1267	20	325	0.7	0.39	0.1	10.1	132	50.5	2.18	5	0.01	0.42	26	0.67	258	3	0.061	24.1	0.052	5	0.05	1.3	2.9	0.5	31	--	13.5	0.148	0.3	1.7	40	10.5	40
G019224	0.1	2.85	25.2	72.5	20	145	0.9	0.55	0.1	16.2	151	40.2	3.15	9	0.01	1.38	17	1.26	255	1.8	0.079	38.9	0.045	2.2	0.08	0.2	6.8	0.5	26	--	7.5	0.205	0.8	0.8	54	0.2	51
G019225	0.1	1.7	40.1	6	20	80	0.3	0.56	0.1	11.9	146	22.3	2.61	6	0.01	0.87	16	0.72	236	2.6	0.034	31.7	0.039	2.1	0.16	0.4	4	0.5	19	--	10	0.132	0.6	1.2	40	0.3	29
G019226	0.1	1.45	39.8	50.5	20	66	1.3	1.02	0.1	12.1	201	20.9	1.89	5	0.01	0.52	10	0.59	210	3	0.034	38.4	0.024	1.5	0.11	0.5	3.4	0.5	42	--	7.2	0.09	0.3	0.6	33	14.8	18
G019231	0.1	2.62	116.7	4.6	20	123	0.7	0.63	0.1	18.1	139	72.9	3.82	9	0.01	1.32	14	0.94	228	2	0.055	38.4	0.052	1.7	0.45	0.2	5.6	0.8	33	--	7.9	0.221	0.9	1.3	62	0.8	44
G019244	0.1	1.35	33	3.4	20	56	0.1	0.3	0.1	8.7	166	16.5	2.22	5	0.01	0.8	22	0.51	182	3	0.023	24.5	0.014	2.7	0.05	0.3	3.4	0.5	11	--	11	0.122	0.5	1.4	31	4.3	36
G019247	0.1	1.66	85.4	6.6	20	92	0.5	0.87	0.1	15	152	27	3.34	6	0.01	0.89	18	0.74	359	2.8	0.024	35.5	0.019	3.4	0.16	2.3	4.9	0.5	39	--	9.3	0.146	0.5	1.3	42	10.4	46
09BGC-GTH-02a Int. 51.88-59.5	820	1.19	79.1	493.1	20	64.8	19.71	0.15	2.01	7.8	25.9	29.17	2.43	4	0.01	0.44	19.2	0.35	117	2.54	0.017	18.7	0.022	24.76	0.07	2.94	3.3	0.1	13.3	1.34	8	0.045	0.27	1.5	20	0.3	140.5
09BGC-GTH-02a Int.7 2.29-77.47	57	1.81	57.9	20.1	20	114.3	0.29	0.31	0.08	12.3	46.2	27.7	3.07	6.5	0.009	0.93	23	0.65	154	1.04	0.028	34.1	0.025	6.03	0.15	0.54	5.6	0.2	20.7	0.07	9.7	0.126	0.63	1.4	40	0.2	50.9
DG12-BRL-01	0.275	0.65	188.2	59.8	*20*	49	1.93	0.46	0.05	5.8	119.7	14.27	1.56	2.8	0.015	0.35	21.4	0.25	171	1.03	0.015	16.2	0.019	4.94	0.03	2.34	3	0.1	19	0.07	9.6	0.043	0.22	1.2	16	8.7	28.5
DG12-BRL-02	0.132	1.65	154.7	48.5	*20*	106.3	0.66	0.5	0.14	12.6	105.3	25.9	3.09	6.4	0.008	0.96	24	0.64	294	2.57	0.019	31.2	0.052	20.33	0.06	3.93	5.2	0.3	27.5	0.03	10.6	0.114	0.53	2	40	0.4	68.3
DG12-BRL-03	0.054	1.16	203.4	74.4	*20*	207.2	9.04	0.67	0.08	7.4	99.8	22.53	1.99	5.2	0.007	0.54	32.4	0.52	190	1.86	0.036	19.8	0.038	8.9	0.13	3.2	4.2	0.4	49	0.13	16	0.097	0.31	4	23	2	37.5
DG12-BRL-04	0.47	1.45	1065	138.9	*20*	389.5	28.31	0.82	0.19	8.5	94	43.51	2.24	7.2	0.005	0.63	40.8	0.76	186	1.81	0.087	21.7	0.063	13.8	0.08	4.36	5	0.7	69.4	0.37	18.4	0.168	0.35	4.1	29	10.2	60.2
DG12-BRL-05	0.172	1.48	850.8	152	*20*	374.8	9.59	1.00	0.3	12.8	92.2	61.62	2.45	6.9	0.014	0.7	39.7	0.83	179	2.54	0.072	28.1	0.06	63.19	0.29	13.1	6.3	1.8	75.9	0.42	16.8	0.154	0.43	6.5	39	17.1	93.7
DG12-BRL-06	1.215	0.95	938.6	140.4	*20*	244.6	18.44	1.31	1.17	10	85.6	92.06	2	5.2	0.032	0.43	31.2	0.62	373	6.14	0.042	18.3	0.055	144.36	0.25	37.12	4.2	1.5	81.4	0.59	16.3	0.07	0.28	6	20	2.4	208.7
DG12-BRL-07	0.297

Appendix G2 - Low-Level Metals by Aqua Regia Digestion with ICP-MS Finish

Sample #	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	U	V	W	Zn
Units	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
BH-BGC11-69 SA1	70	0.2	7.4	1.9	20	14	0.06	0.8	0.03	6.4	80.5	16.85	1.89	1	13	0.06	7.2	0.23	577	0.32	0.001	14.6	0.009	11.88	0.02	0.37	1	0.1	16.5	0.02	4.4	0.001	0.03	0.4	8	0.1	31.7
BH-BGC11-62 SA1	118	0.17	119.8	9.7	20	16.3	0.09	0.04	0.18	2.4	81.3	10.47	0.74	0.4	36	0.12	13.9	0.02	28	0.41	0.001	7.5	0.008	6.52	0.03	0.86	1.2	0.1	9.9	0.02	6	0.001	0.07	0.4	3	0.7	138.5
TP-BGC11-50 SA2	6791	0.27	1206.6	109.5	20	112.1	1.55	0.08	1.25	1.6	28.3	32.78	3.26	0.8	787	0.33	13.5	0.03	38	1.08	0.005	5.2	0.029	1665.9	0.39	6.02	1.2	0.1	28.6	0.09	9.3	0.001	0.24	1.2	5	0.9	624.7
TP-BGC11-62 SA1	138	1	300.6	16.6	20	135.3	1	0.21	0.28	8.9	68.4	26.78	2.1	3.2	30	0.29	18.9	0.34	335	0.71	0.022	23.1	0.042	17.86	0.02	2.46	2.9	0.1	20.7	0.06	7.9	0.043	0.2	0.7	23	9.3	59.4
BH-BGC11-44-S3	149	1.1	21.2	1.9	20	457.9	0.25	0.47	0.46	11.5	63.8	32.19	2.47	3.5	30	0.14	18	0.46	467	1.37	0.032	29.8	0.088	11.45	0.02	1.01	3.7	0.2	35.8	0.02	5.2	0.049	0.1	0.7	44	0.9	84.6
BH-BGC11-51-G10	195	0.57	79	5.1	20	63.8	0.86	1.12	0.13	10.2	96.2	34.61	2.29	1.9	57	0.15	15.8	0.3	410	0.67	0.017	23.6	0.024	16.73	0.13	2.82	1.8	0.1	58.2	0.04	6.7	0.009	0.11	0.9	11	2.4	53.2
BH-BGC11-56-SPT1	260	0.71	242.5	19.6	20	78.4	0.62	0.17	0.32	7.2	85.7	24.02	1.77	2.4	32	0.19	18.3	0.25	273	1	0.029	19.3	0.031	34.63	0.02	5.64	2	0.1	20	0.03	6.5	0.032	0.15	0.7	15	1	69.2
BH-BGC11-57-SPT3	1973	0.94	491.4	257.7	20	88.5	1.33	0.18	1.4	10.1	82.8	44.35	2.49	3.2	44	0.32	25.2	0.27	282	0.9	0.027	26.4	0.031	290.21	0.02	46.42	2.4	0.2	21.8	0.02	10.2	0.035	0.25	1.3	19	2.8	201.4
BH-BGC11-40A-1	519	0.29	469.7	18	20	26	0.44	12.86	0.28	24	16	45.18	4.01	0.9	15	0.18	14.8	0.08	1496	0.5	0.013	48.2	0.025	11.55	0.23	2.63	3.4	0.6	112.3	0.03	5.9	0.001	0.15	2.8	5	0.5	244.7
BH-BGC11-40B SA1	15	1.89	113.7	6.4	20	115.3	0.11	0.35	0.01	13.4	112.4	34.45	3.04	6.2	10	1.14	11.2	0.74	163	0.72	0.032	32.1	0.017	4	0.18	0.1	4.4	0.1	10.8	0.02	6.4	0.163	0.74	0.8	37	0.4	50.7
TP-BGC11-126-G1	556	0.64	420	28.4	20	212.4	2.59	0.15	1.27	7.4	61.5	22.97	1.99	2.2	36	0.19	23.5	0.17	1553	1.55	0.018	23.2	0.04	99.09	0.02	7.6	2.2	0.2	12.1	0.1	8.7	0.023	0.13	0.9	19	1.4	236.1
TP-BGC11-63 SA1	81	0.96	209.6	11.4	20	103.2	0.93	0.1	0.19	9.6	83.2	24.59	2.26	3	15	0.3	19.1	0.35	277	0.83	0.011	21.5	0.031	15.32	0.02	1.86	2.4	0.1	10.1	0.03	7.5	0.043	0.24	0.8	23	0.7	67.3
TP-BGC11-64 SA1	227	0.91	316.1	12.9	20	130.2	0.87	0.16	0.44	9.6	63.9	29.26	2.22	2.7	29	0.26	17.1	0.32	238	0.73	0.015	22.3	0.036	36.62	0.02	5.38	2.6	0.1	14.5	0.02	6.9	0.042	0.22	0.9	20	1	93.8
RC12-EG-10	57	0.8	98.9	3.6	20	321.6	0.31	0.32	0.36	4.9	93.1	9.17	1.49	3.4	5	0.05	11.2	0.22	142	0.39	0.067	12.2	0.01	19.52	0.02	1.95	2.7	0.1	18.9	0.03	9.9	0.064	0.03	0.4	19	0.3	53.3
RC12-EG-11	17	0.05	55.5	1.1	20	18.6	0.07	0.02	0.02	2.7	143.1	7.5	0.39	0.2	5	0.01	0.6	0.01	26	0.5	0.002	7.2	0.002	1.57	0.02	0.42	0.1	0.1	1.6	0.02	0.3	0.003	0.02	0.1	2	0.2	2.4
RC12-EG-12	15	0.25	39.9	0.7	20	21.1	0.11	0.01	0.19	6	88.9	16.62	1.16	0.7	44	0.09	15.5	0.02	129	0.39	0.003	15.5	0.015	1.56	0.02	2.4	0.9	0.1	1.9	0.02	6.1	0.002	0.04	0.8	6	0.1	161
RC12-EG-13	25	1.3	60.3	1.4	20	111.2	0.2	0.05	0.06	10.8	117.6	20.22	2.38	5.6	6	0.71	28.4	0.59	225	0.9	0.027	31.6	0.014	4.02	0.02	0.67	3.8	0.2	14.8	0.03	13.3	0.113	0.43	1.4	31	0.2	31.4
RC12-EG-14	38	1.13	66.2	12.5	20	402	0.31	0.43	0.25	5	101.9	14	1.64	4.5	8	0.39	20.8	0.5	176	0.69	0.076	7.7	0.038	6.99	0.03	1.86	2.5	0.1	51.8	0.02	11.5	0.142	0.2	1.5	27	0.5	31.1
RC12-EG-15	1237	0.26	359.3	7.2	20	31.9	1.01	0.02	0.43	4.9	98.7	26.89	1.15	0.7	44	0.1	11.4	0.08	150	0.96	0.01	10.8	0.013	100	0.02	3.84	1	0.5	2.5	0.02	6.7	0.002	0.05	0.5	4	0.5	217.3
RC12-EG-16	25	1.96	219.2	1.1	20	99.3	0.61	0.04	0.06	10.8	85.1	33.81	3.21	6.5	5	1.48	37.4	1.01	141	0.29	0.018	22.7	0.025	3.08	0.02	0.3	4.2	0.1	5.8	0.02	14.8	0.162	1.2	1.8	41	0.1	52.3
RC12-EG-27	14	0.4	49.2	1	20	34.3	0.09	0.04	0.05	2.5	115.4	8.81	0.76	2	5	0.07	8	0.15	105	0.44	0.015	10.3	0.007	3.17	0.02	0.28	1.1	0.1	3	0.02	6.3	0.008	0.05	0.2	12	1.3	10.2
RC12-EG-28	59	4.51	20.9	2.5	20	299.8	0.28	1.89	0.65	17.9	93.1	54.29	3.57	12.6	5	1.45	27.4	1.04	204	0.61	0.127	48.3	0.036	10.54	0.18	0.09	6.4	0.4	141.1	0.02	13.1	0.252	0.61	3.6	61	0.3	93.9
RC12-EG-29	22	2.3	38	17.9	20	211.8	0.23	0.03	0.03	16.3	76.1	28.77	3.7	6.4	5	1.03	27.6	0.96	228	0.9	0.02	41.1	0.017	2.81	0.05	0.14	2.7	0.1	7.3	0.02	9.8	0.137	0.57	1.4	36	0.1	66.3
RC12-EG-30	53	0.48	81.1	1.4	20	47.7	0.08	0.08	0.22	6.4	73.9	11.99	0.92	1.5	6	0.19	54.8	0.07	64	0.39	0.005	11.4	0.052	10.49	0.02	1.05	1.4	0.1	12.3	0.02	14.2	0.012	0.12	1.2	10	0.2	50.3
RC12-EG-7	52	1.22	1388	4.3	20	527.7	3.44	0.28	5.17	11.1	81.5	15.56	1.83	6.5	5	0.38	16.4	0.5	373	0.74	0.081	12.8	0.042	11.8	0.04	1.68	3.3	0.4	46.7	0.02	16.5	0.093	0.19	3.3	17	1	153
RC12-EG-8	12	0.41	26.9	0.7	20	38.8	0.07	0.04	0.09	3.2	99.7	3.62	0.85	1.5	5	0.07	9.2	0.15	122	0.29	0.013	8.4	0.007	5.57	0.02	0.37	0.6	0.1	3.4	0.02	7.6	0.002	0.04	0.2	5	0.1	29.2
RC12-EG-9	148	2.23	261.3	43.3	20	345.3	2.65	0.92	0.23	12	100.8	27.59	2.98	8.8	5	0.72	38.9	1.16	266	0.91	0.187	13.4	0.076	8.74	0.67	0.68	4.7	0.3	88.6	0.02	18.3	0.213	0.43	2.2	55	0.2	45.6
RC11-PL-20	42	1.54	1450.1	29.1	20	442	6.32	0.36	0.21	8.6	111.1	32.78	2.17	7	5	0.68	36.3	0.74	235	1.01	0.091	25.2	0.055	7.22	0.05	2.75	5.1	0.6	40.3	0.13	19.5	0.187	0.44	2.7	30	3.2	111.7
RC12-PL-17	77	0.56	135.7	0.2	20	50	0.14	0.59	0.32	4.7	109.6	10.07	1.27	2.6	5	0.07	12.8	0.19	425	0.35	0.048	13	0.01	9.21	0.02	1.36	1.8	0.2	22.3	0.03	9.8	0.046	0.04	0.5	12	0.3	26.5
RC12-PL-18	39	1.89	268.1	1.7	20	81.4	1.38	0.1	0.11	6.4	90.1	16.39	3.18	5.8	6	1.32	35.4	0.95	129	0.58	0.016	11.8	0.036	4.2	0.1	0.34	2.5	0.3	21.9	0.09	15	0.138	1.03	1.8	34	0.1	57.3
RC12-PL-19	17	1.7	548.7	9.7	20	561.8	1.55	0.54	0.08	8.2	105	13.76	2.55	7.7	5	0.75	45.5	0.85	307	0.8	0.123	24	0.064	7.56	0.03	0.73	5.2	0.1	54.6	0.02	20.9	0.266	0.51	2.3	37	3.1	71.2
RC12-PL-21	24	1.59	615.3	9.2	20	496.9	0.95	0.52	0.12	6.6	113.9	19.22	2.16	6.8	5	0.6	41.7	0.74	247	0.91	0.113	24.7	0.061	4.65	0.02	0.58	4.8	0.1	56.5	0.04	22.7	0.206	0.33	2.9	31	0.7	30.3
RC12-PL-22	23	1.67	605.3	12	20	383.4	4.09	0.63	0.1	7.3	110.8	15.83	1.78	6.3	17	0.56	32.2	0.57	249	1.03	0.103	13.9	0.047	7.81	0.02	0.9	3.6	0.6	140.2	0.02	20.9	0.147	0.29	2.3	26	4	31.7
RC12-PL-23	49	0.21	77.2	0.2	20	25.1	0.15	0.01	0.03	1	114.4	14.74	0.7	0.3	41	0.14	8.3	0.03	37	0.68	0.002	5.5	0.005	5.46	0.02	1.41	0.7	0.2	7.6	0.02	1.7	0.002	0.18	0.3	5	0.1	7.2
RC12-PL-24	25	0.32	116.4	6.6	20	34.4	0.5	0.08	0.03	2.5	157.9	9.81	0.71	0.8	5	0.08	7.2	0.09	62	2.06	0.025	10	0.022	4.08	0.02	1.25	0.7	0.1	7.8	0.02	2.3	0.006	0.04	0.4	4	0.4	11.6
RC12-PL-25	14	1.32	25.5	0.4	20	49.3	0.27	0.03	0.02	3.8	108.9	13.7	2.23	4.8	5	0.24	24.2	0.61	219	0.46	0.021	11.6	0.021	8.64	0.02	0.12	2.1	0.1	6.7	0.03	11.1	0.036	0.13	0.9	18	0.1	27.2
RC12-PL-26	45	0.16	135.1	1.4	20	10.3	0.49	0.01	0.11	1.3	126.8	7.33	0.8	0.2	6	0.09	14.9	0.01	33	0.4	0.001	6.1	0.009	9.03	0.02	1.82	0.6	0.1	6.9	0.02	5.9	0.001	0.07	0.4	2	0.1	42.8
RC12-PL-31	9	1.75	151	2.5	20	543.3	0.49	0.59	0.08	7.4	105.6	9.69	2.37	7.8	5	0.7	32.7	0.8	261	0.88	0.113	25.4	0.062	5.34	0.02	0.32	5.2	0.1	54.5	0.02	17.5	0.27	0.37	1.5	35	21.8	31.7
RC12-PL-32	13	1.58	417.8	5.5	20	608.1	1.02	0.44	0.09	6.8	103.7	10.31	2.26	7.7	5	0.94	28.8	0.84	248	0.76	0.109	20.9	0.056	5.35	0.02	0.27	5.4	0.2	53.4	0.02	18.8	0.242	0.57	2.7	34	2	46.4
RC12-TD-1	15	0.29	9.7	0.5	20	26	0.11	0.01	0.04	8.2	114.1	22.78	2.45	1.5	5	0.08	12.3	0.04	418	0.33	0.002	17.2	0.011	5.23	0.02	0.92	1	0.1	3.5	0.02	7.9	0.002	0.04	0.5	9	0.1	36.3
RC12-TD-2	49	1.22	11.9	0.4	20	47.3	0.31	0.05	0.04	14.8	70.2	40.98	3.48	3.6	5	0.22	16.6	0.54	512	0.41	0.003	30.9	0.026	8.97	0.02	0.79	1.5	0.1	13.4	0.02	9	0.004	0.1	0.7	13	0.1	47.9
RC12-TD-3	45	1.73	4.7	0.4	20	69	0.19	0.08	0.03	10.4	59.1	33.73	3.49	4.6	5	0.24	18.4	0.77	580	0.45	0.002	23.3	0.034	7.72	0.02	0.44	1.5	0.1	21.4	0.02	9	0.004	0.08	1.2	14	0.1	68.9
RC12-TD-4	14	1.3	6.5	0.3	20	33.8	0.16	0.05	0.02	9.7	85.7	22.68	2.99	4.1	5	0.16	18	0.58	394	0.28	0.002	20.9	0.023	7.06	0.02	0.85	1.3	0.1	8.6	0.02	8.4	0.005	0.05	0.6	13	0.1	45.6
RC12-TD-5	99	0.3	24.7	0.5	20	26	0.17	0.01	0.01	1.1	73.6	4.91	0.34	1	105	0.13	14.4	0.04	37	0.23	0.002	3.5	0.004	10.07	0.02	0.48	0.8	0.1	6.5	0.02	5.1	0.001	0.12	0.3	3	0.1	5
RC12-TD-6	10	0.08	3.6	0.4	20	9.2	0.09	0.01	0.01	1.6	164.8	5.71	0.67	0.3	5	0.03	3.4	0.02	103	0.61	0.001	6.8	0.007	3.48	0.02	0.62	0.3	0.1	1.9	0.02	1.6	0.002	0.02	0.2	2	0.2	6.7
TP-BGC11-34 SA1	38	1.88	15.9	5.6	20	70	0.14	0.2	0.05	12	67.4	29.2	3.96	5.7	8	0.64	12.3	1.08	414	0.56	0.019	26.4	0.019	3.57	0.57	0.22	3.5	0.1	12.7	0.02	8.1	0.044	0.35	0.8	28	0.1	72.3
TP-BGC11-104-G1	221	0.76	296.4	33.3	20	149.4	0.47	0.12	0.63	9.8	62.5	23.69	2.37	3	35	0.29	31.6	0.22	415	0.97	0.021	26.2	0.035	49.02	0.02	3.72	2.7	0.1	15.7	0.04	12.7	0.037	0.26	1.8	20	12.3	111.3
TP-BGC11-121-G1	339	1.43	148.7	15.6	20	169.6	0.98	0.66	0.37	17.3	39.6	48.09	3.58	4.5	66	0.32	36.7	0.65	550	1.08	0.025	41.7	0.053	39.26	0.02	4.31	3.6	0.1	44.3	0.07	15	0.023	0.22	1.4	29	2.2	112.7
TP-BGC11-92 SA1	419	0.85	131.9	7.9	20	211.2	0.27	0.15	0.44	6.9	88.2	17.25	1.9	2.6	56	0.08	13.2	0.23	127	0.92	0.008	16.7	0.05	52.17	0.02	2.43	2.3	0.1	12.1	0.02	2.5	0.015	0.09	0.6	25	3.6	95.2
DG-PL12-01	49	1.15	159.5	4.5	20	137.1	0.2	0.1	0.14	11.4	147.7	18.04	2.69	4.1	16	0.52	31.9	0.44	328	8.3	0.012	29.2	0.035	9.71	0.02	1.17	4.5	0.3	28.4	0.02	11.7	0.098	0.33	1.8	31	15.9	62.1
DG-PL12-02	60	0.81	474.5	6.6	20	170.4	0.21	0.11	0.22	9.7	121.6	40.87	2.82	2.5	8	0.17	30.9	0.21	316	5.51	0.008	24.3	0.04	10.19	0.02	0.56	3.7	0.3	39.4	0.03	11.6	0.032	0.21	1.6	28	5.4	56.4
DG-PL12-03	33	1.29	198.6	2.4	20	124.4	0.13	0.05	0.07	10.1	131.9	20.85	2.79	4.9	18	0.67	34.8	0.48	296	2.5	0.014	24.6	0.027	6.12	0.02	0.61	4.6	0.4	10.6	0.03	11.3	0.119	0.42	1.5	37	3.4	56.2
DG-PL12-04	38	0.93	104.8	2	20	208.7	0.12	0.17	0.12	7.2	140.8	16.31	2.01	3.5	5	0.38	22.9	0.36	252	2.6	0.028	20.4	0.035	11.81	0.02	0.57	3.2	0.1	25	0.03	8.6	0.081	0.21	1	27	13.5	41
DG-PL12-05	102	1.24	145.6	7.2	20	399.4	0.26	0.32	0.38	8.4	114	19.69	2.11	5	5	0.43	35.8	0.51	580	1.49	0.044	27.7	0.057	25.98	0.02	2.18	4.2	0.2	31.4	0.04	18.4	0.109	0.27	2	29	58.7	88.2
DG-PL12-06	39	0.6	203.2	24.6	20	112.1	0.17	0.06	0.14	10.5	131.4	28.57	2.46	1.8	9	0.21	28.8	0.15	297	2.98	0.009	26.4	0.026	7.54	0.02	2.61	2.3	0.1	38.3	0.03	12	0.02	0.24	1.2	15	1.3	50.3
DG-PL12-07	55	0.62	167.5	18.4	20	146.1	0.4	0.12	0.2	12.3	120.5	34.23	2.71	1.9	39	0.21	28.2	0.19	597	4.31	0.008	33	0.039	7.36	0.03	2.8	2.8	0.3	38.5	0.11	10.6	0.02	0.3	1.5	19	3.7	50
DG-PL12-08	78	1.32	112.5	7.8	20	143.8	0.29	0.15	0.08	12.2	114.2	32.5	2.84	4	16	0.4	34	0.51	264	2.71	0.012	28	0.035	9.14	0.02	0.8	3.1	0.2	18.1	0.03	12	0.057	0.29	1.5	27	0.9	59.4
DG-PL12-09	72	0.81	95.7	6	20	82.2	0.37	0.1	0.09	11.4	123.5	26.02	2.61	2.6	10	0.2	25.4	0.29	336	0.8	0.01	25.9	0.028	16	0.02	2.66	2.3	0.1	15.1	0.03	9	0.018	0.17	0.9	16	0.5	50.6
BH-BGC11-39-11	143	0.52	150.8	2.1	20	58.7	0.8	0.07	0.09	8.9	64.9	46.97	2.39	1.6	27	0.15	22	0.16	232	1.6	0.015	21.4	0.022	19.1	0.02	3.78	1.4	0.1	11.4	0.02	7.3	0.005	0.07	2.1	9	2.1	54.7
BH-BGC11-39-8	141	0.51	112.3	2	20	56.3	0.59	0.07	0.14	8.2	75	49.96	2.34	1.6	19	0.15	22.5	0.15	213	4.3	0.014	22.1	0.02	19.37	0.02	5.02	1.3	0.1	11.3	0.02	6.8	0.004	0.07	1.6	9	0.6	62.3
BH-BGC11-53-G3	136	1.05	176.4	22.7	20	106	0.68	0.19	0.31	13	80.6	33.69	2.83	3.9	28	0.38	27.8	0.33	287	1.16	0.027	31.1	0.034	23.4	0.03	2.6	3.3	0.1	23	0.06	11.2	0.046	0.27	1.5	24	2.6	78.7
BH-BGC11-53-G8	88	1.27	221.6	34.1	20	277.4	0.66	0.28	0.15	9.6	87.4	17.22	2.49	5.4	29	0.6	31	0.54	177	0.9	0.059	32.5	0.051	18.49	0.02	1.42	4.1	0.1	31.3	0.05	15.5	0.136	0.4	2.3	29	18.5	67.3
BH-BGC11-55-G5	123	1.14	118.5	8.8	20	73.4	0.7	0.25	0.14	12.9	65.5	40.09	3.07	3.8	22	0.37	21.3	0.42	370	0.69	0.032	30.2	0.03	13.65	0.08	2.48	2.7	0.1	31	0.04	9.3	0.031	0.26	1.1	22	0.3	68.5
BH-BGC11-65-SPT1	88	0.74	140.3	21.6	20	92.6	0.65	0.18	0.2	6.2	70.2	23.45	1.73	2.8	5	0.38	20.8	0.23	154	0.86	0.025	17.2	0.022	31.89	0.02	5.1	2.1	0.1	16.8	0.04	7.5	0.053	0.2	1.1	16	48.3	64
BH-BGC11-65-SPT8	415	0.99	120.2	9.4	20	235.3	0.23	0.28	0.16	7.5	80.5	43.04	1.95	4.1	5	0.42	26.9	0.34	212	0.94	0.063	20.3	0.033	45.18	0.02	2.33	2.8	0.1	29.5	0.03	11.4	0.091	0.26	1.4	21	100	49.4
DG-PL12-10	84	1.01	257.7	5.6	20	147.1	0.39	0.16	0.15	9.8	142.8	24.23	2.53	3.3	43	0.35	23.8	0.48	214	3.79	0.023	25.5	0.027	14.19	0.12	3.89	2.4	0.1	18.4	0.03	10.4	0.038	0.24	1.1	19	31.4	69.6
DG-PL12-11	200	0.7	181.9	9.9	20	863.5	1.67	0.17	0.43	9.7	160	30.46	2.54	2.3	24	0.17	22.7	0.29	513	3.67	0.015	26.2	0.028	32.38	0.05	4.36	2	0.3	29.3	0.12	9.9	0.015	0.11	1.2	13	2.8	104.9
DG-PL12-12	111	0.52	200.8	6.3	20	53.9	0.87	0.16	0.19	7.9	153.8	57.38	1.94	1.4	36	0.15	14.3	0.23	244	3.17	0.007	20.8	0.022	15.94	0.17	3.07	1.5	0.2	12.4	0.02	6.9	0.012	0.12	0.7	11	0.6	41.8
DG-PL12-13	239	0.47	417.7	15.2	20	37.4	0.86	0.18	0.37	7.2	141.3	28.97	1.89	1.6	17	0.16	15.3	0.21	249	3.2	0.008	18.6	0.018	68.16	0.11	15.47	1.4	0.2	11.2	0.02	6.7	0.006	0.12	0.7	9	0.7	66.7
DG-PL12-14	178	0.57	160.6	1.6	20	59.9	0.74	0.32	0.23	10	140.5	38.47	2.41	2	31	0.16	19.1	0.28	376	3.2	0.009	22.8	0.022	20.48	0.09	3.7

Appendix G3: Acid-Base Accounting

Appendix G3 - Acid Base Accounting Results - Statistical Summary

Parameter		Metasediment (n=120)			Granodiorite A (Oxidized) (n=50)			Granodiorite B (Unaltered) (n=92)			Granodiorite C (Altered) (n=56)		
		Mean	Minimum	Maximum	Mean	Minimum	Maximum	Mean	Minimum	Maximum	Mean	Minimum	Maximum
Paste pH		8.2	6.6	9.1	8.4	7.7	9.0	8.4	7.6	9.3	8.4	7.2	9.3
TIC	%	0.16	0.01	1.00	0.25	0.07	0.65	0.33	0.01	4.66	0.35	0.01	0.88
CaCO3 NP	kg CaCO3/t	15	0.83	83	21	5.8	54	27	0.83	388	29	0.80	73
S(T)	%	0.11	0.002	1.4	0.05	0.002	0.31	0.20	0.00	1.4	0.26	0.01	1.8
S(SO4)	%	0.01	0.01	0.11	0.01	0.01	0.02	0.01	0.01	0.43	0.01	0.01	0.10
S(S-2)	%	0.10	0.01	1.4	0.05	0.01	0.29	0.19	0.01	1.4	0.26	0.01	1.7
AP	kg CaCO3/t	3.4	0.06	43.44	1.6	0.06	9.1	6.3	0.06	43	8.2	0.19	54
NP	kg CaCO3/t	14	1.0	44	24	4.0	76	36	-1.9	372	39	3.0	92
Net NP	kg CaCO3/t	10	-20	38	22	3.0	74	30	-20	366	31	-11	81
NP/AP		13	0.0	160	49	2.5	504	16	-6.3	160	13	0.0	224

Appendix G3 - Acid Base Accounting Results

Sample Number	Drillhole ID	From (ft)	To (ft)	From (m)	To (m)	Rock Type	Paste pH	TIC (%)	$CaCO_3$ NP	Total S (%)	Sulphate (%)	Sulphide (%)	AP	NP	Net NP	Fizz Test	NP/AP
48158						Ore feed split	8.3	0.35	29.2	0.19	0.02	0.17	5.3	31.1	25.8	Slight	5.9
DG11-414C Int. 12.17-21.34	DG11-414C			12.17	21.34	Altered Granodiorite (C)	8.7	0.11	9.2	0.04	0.01	0.04	1.3	13.9	12.7	None	11.1
DG11-417C Int. 120.4-131.06	DG11-417C			120.4	131.1	Altered Granodiorite (C)	8.4	0.56	46.7	0.42	0.01	0.42	13.1	43.9	30.8	Slight	3.3
DG11-419C Int. 105.16-115.82	DG11-419C			105.2	115.8	Altered Granodiorite (C)	8.4	0.74	61.7	0.56	0.01	0.55	17.2	52.6	35.4	Slight	3.1
G019214	DG05-308C			125	128	altered granodiorite (chlorite/sericite	8.1	0.04	3.3	0.13	0.1	0.03	0.9	9.8	8.9	Slight	10.5
G019217	DG07-327C			12.5	22.5	altered granodiorite (chlorite/sericite	8.5	0.22	18.3	0.03	0.01	0.03	0.9	25.2	24.3	Slight	26.9
G019248	DG07-311C			93.35	97.95	altered granodiorite (chlorite/sericite	8.6	0.59	49.2	0.14	0.01	0.14	4.4	29.9	25.5	Slight	6.8
G019252	DG07-311C			163.7	173.7	altered granodiorite (chlorite/sericite	8.8	0.58	48.3	0.32	0.01	0.32	10.0	26.4	16.4	Slight	2.6
G019254	DG07-311C			220.4	230.3	altered granodiorite (chlorite/sericite	9.1	0.62	51.7	0.28	0.01	0.28	8.8	54.3	45.6	Slight	6.2
G019256	DG07-303C			175.3	185.9	altered granodiorite (chlorite/sericite	8.7	0.45	37.5	0.42	0.01	0.42	13.1	39.1	26.0	Slight	3.0
G019259	DG07-303C			108.2	118.2	altered granodiorite (chlorite/sericite	8.0	0.09	7.5	0.26	0.02	0.26	8.1	13.8	5.7	Slight	1.7
G019263	DG07-303C			11	18.29	altered granodiorite (chlorite/sericite	8.4	0.04	3.3	0.02	0.01	0.02	0.6	11.5	10.9	Slight	18.4
M404101 to -09	DG12-479C (218-235)			218	235	altered granodiorite	7.9	0.88	73.3	0.34	0.01	0.34	10.6	61.7	51.1	Slight	5.8
1055	DG 95-80-R	280	285			Granodiorite (C)	8.2	--	--	0.742	0.01	0.76	23.8	76	53.0	--	3.2
1056	DG 95-80-R	285	290			Granodiorite (C)	8.5	--	--	0.105	0.005	0.06	1.9	79	76.0	--	42.1
1063	DG 95-80-R	315	320			Granodiorite (C)	7.8	--	--	1.81	0.02	1.73	54.1	50	-7.0	--	0.9
1128	DG 95-80-R	625	630			Granodiorite (C)	8.3	--	--	0.228	0.01	0.25	7.8	41	34.0	--	5.2
1178	DG 95-81-R	105	110			Granodiorite (C)	8.3	--	--	0.006	0.01	0.005	0.2	42	41.0	--	224.0
1259	DG 95-81-R	490	495			Granodiorite (C)	8.2	--	--	0.18	0.01	0.18	5.6	34	28.0	--	6.0
1375	DG 95-83-R	295	300			Granodiorite (C)	8.3	--	--	0.102	0.01	0.1	3.1	39	36.0	--	12.5
1386	DG 95-83-R	345	350			Granodiorite (C)	8.5	--	--	0.207	0.01	0.21	6.6	40	34.0	--	6.1
1467	DG 95-84-R	590	595			Granodiorite (C)	8.3	--	--	0.235	0.01	0.22	6.9	36	29.0	--	5.2
1477	DG 95-84-R	635	640			Granodiorite (C)	8.7	--	--	0.094	0.01	0.1	3.1	37	34.0	--	11.8
1519	DG 95-85-R	525	530			Granodiorite (C)	8.3	--	--	1.39	0.02	1.5	46.9	38	-5.0	--	0.8
1647	DG 95-87-R	305	310			Granodiorite (C)	8.4	--	--	0.02	0.005	0.02	0.6	13	12.0	--	20.8
1675	DG 95-87-R	440	445			Granodiorite (C)	8.2	--	--	0.242	0.01	0.24	7.5	37	29.0	--	4.9
51855	DG 95-82-R	525	530			Granodiorite (C)	8.2	--	--	0.345	0.01	0.35	10.9	92	81.0	--	8.4
51865	DG 95-82-R	575	580			Granodiorite (C)	8.4	--	--	0.289	0.01	0.28	8.8	75	66.0	--	8.6
51902	DG 95-82-R	750	755			Granodiorite (C)	8.6	--	--	0.23	0.04	0.23	7.2	59	52.0	--	8.2
51965	DG 95-84-R	60	65			Granodiorite (C)	7.2	--	--	0.019	0.01	0.005	0.6	28	27.0	--	47.2
52008	DG 95-84-R	260	265			Granodiorite (C)	8.4	--	--	0.129	0.02	0.1	3.1	41	37.0	--	13.1
52288	DG 95-88-R	200	205			Granodiorite (C)	8.3	--	--	0.081	0.005	0.08	2.5	52	49.0	--	20.8
52316	DG 95-88-R	330	335			Granodiorite (C)	8.4	--	--	0.151	0.01	0.15	4.7	37	32.0	--	7.9
52721	DG 95-90-R	580	585			Granodiorite (C)	8.6	--	--	0.171	0.005	0.17	5.3	47	42.0	--	8.8
52972	DG 95-92-R	180	185			Granodiorite (C)	8.3	--	--	0.131	0.01	0.11	3.4	19	15.0	--	5.5
53208	DG 95-92-R	580	585			Granodiorite (C)	8.5	--	--	0.059	0.005	0.05	1.6	46	44.0	--	29.4
70842	DG 95-133-R	285	290			Granodiorite (C)	8.4	--	--	0.455	0.005	0.45	14.1	54	40.0	--	3.8
70981	DG 95-134-R	565	570			Granodiorite (C)	8.9	--	--	0.245	0.01	0.24	7.5	21	13.0	--	2.8
71019	DG 95-134-R	755	760			Granodiorite (C)	8.5	--	--	0.213	0.005	0.21	6.6	34	27.0	--	5.2
75673	DG 95-97-R	315	320			Granodiorite (C)	8.5	--	--	0.182	0.005	0.17	5.3	56	50.0	--	10.5
75735	DG 95-97-R	610	615			Granodiorite (C)	8.5	--	--	0.21	0.005	0.2	6.3	48	41.0	--	7.7
75860	DG 95-98-R	470	475			Granodiorite (C)	8.3	--	--	0.07	0.005	0.07	2.2	40	38.0	--	18.3
76908	DG 95-116-R	60	65			Granodiorite (C)	8.3	--	--	0.113	0.005	0.11	3.4	25	21.0	--	7.3
76983	DG 95-116-R	415	420			Granodiorite (C)	8.8	--	--	0.184	0.01	0.17	5.3	57	51.0	--	10.7
77034	DG 95-117-R	165	170			Granodiorite (C)	8.2	--	--	0.392	0.005	0.38	11.9	76	64.0	--	6.4
77253	DG 95-119-R	390	395			Granodiorite (C)	8.1	--	--	0.44	0.005	0.44	13.8	3	-11.0	--	0.2
77317	DG 95-119-R	695	700			Granodiorite (C)	8.8	--	--	0.269	0.005	0.26	8.1	26	18.0	--	3.2
G019213	DG05-308C			112	122	granodiorite with sulphide, altered	8.4	0.2	16.7	0.21	0.01	0.21	6.6	23.7	17.1	Slight	3.6
G019222	DG07-327C			110	120.3	granodiorite with sulphide, altered	8.5	0.28	23.3	0.14	0.1	0.04	1.3	31.5	30.3	Slight	25.2
G019223	DG07-327C			132.9	143.6	granodiorite with sulphide, altered	8.7	0.15	12.5	0.16	0.04	0.12	3.8	22.5	18.8	Slight	6.0
G019230	DG07-331C			182	191.1	granodiorite with sulphide, altered	8.5	0.01	0.8	0.06	0.01	0.06	1.9	7.6	5.7	None	4.1
G019235	DG07-335C			237.1	246.3	granodiorite with sulphide, altered	8.9	0.23	19.2	0.12	0.01	0.12	3.8	26.4	22.7	Slight	7.0
G019249	DG07-311C			99.97	109.1	granodiorite with sulphide, altered	8.9	0.3	25.0	0.59	0.01	0.59	18.4	42.6	24.2	Slight	2.3
G019253	DG07-311C			179.2	189.1	granodiorite with sulphide, altered	9.3	0.35	29.2	0.28	0.01	0.28	8.8	34.2	25.5	Slight	3.9
G019255	DG07-303C			195.1	204.2	granodiorite with sulphide, altered	8.5	0.61	50.8	0.32	0.01	0.32	10.0	52.3	42.3	Slight	5.2
G019261	DG07-303C			24.08	34.08	granodiorite with sulphide, altered	8.3	0.3	25.0	0.01	0.01	0.01	0.3	27.3	27.3	Slight	0.0
1001	DG 95-80-R	20	25			Granodiorite (A)	8.4	--	--	0.022	0.01	0.02	0.6	15	14.0	--	24.0
1031	DG 95-80-R	165	170			Granodiorite (A)	8.2	--	--	0.032	0.01	0.02	0.6	33	32.0	--	52.8
1044	DG 95-80-R	225	230			Granodiorite (A)	8.2	--	--	0.16	0.02	0.14	4.4	59	54.0	--	13.5
1172	DG 95-81-R	75	80			Granodiorite (A)	8.5	--	--	0.014	0.01	0.01	0.3	14	13.0	--	44.8
1213	DG 95-81-R	270	275			Granodiorite (A)	8.4	--	--	0.074	0.01	0.09	2.8	13	11.0	--	4.6

Appendix G3 - Acid Base Accounting Results

Sample Number	Drillhole ID	From (ft)	To (ft)	From (m)	To (m)	Rock Type	Paste pH	TIC (%)	$CaCO_3$ NP	Total S (%)	Sulphate (%)	Sulphide (%)	AP	NP	Net NP	Fizz Test	NP/AP
1491	DG 95-85-R	390	395			Granodiorite (A)	8.4	--	--	0.052	0.01	0.04	1.3	76	74.0	--	60.8
1644	DG 95-87-R	290	295			Granodiorite (A)	8.5	--	--	0.01	0.01	0.005	0.3	24	23.0	--	76.8
1662	DG 95-87-R	375	380			Granodiorite (A)	8.2	--	--	0.037	0.01	0.02	0.6	21	20.0	--	33.6
51511	DG 95-93-R	150	155			Granodiorite (A)	8.6	--	--	0.004	0.005	0.005	0.1	63	62.0	--	504.0
51584	DG 95-93-R	495	500			Granodiorite (A)	8.6	--	--	0.113	0.005	0.09	2.8	53	49.0	--	18.8
51979	DG 95-84-R	120	125			Granodiorite (A)	8.3	--	--	0.052	0.01	0.05	1.6	47	45.0	--	30.1
51990	DG 95-84-R	175	180			Granodiorite (A)	8.4	--	--	0.012	0.01	0.01	0.3	26	25.0	--	83.2
52249	DG 95-87-R	220	225			Granodiorite (A)	8.3	--	--	0.018	0.01	0.01	0.3	28	27.0	--	89.6
52251	DG 95-88-R	25	30			Granodiorite (A)	8.1	--	--	0.003	0.01	0.01	0.3	27	26.0	--	86.4
52265	DG 95-88-R	95	100			Granodiorite (A)	8.0	--	--	0.024	0.01	0.03	0.9	33	32.0	--	35.2
52491	ABA1	ench wa	0			Granodiorite (A)	7.8	--	--	0.007	0.005	0.02	0.6	7	6.0	--	11.2
52492	ABA2	ench wa	0			Granodiorite (A)	8.0	--	--	0.019	0.005	0.03	0.9	8	7.0	--	8.5
52496	ABA6	road cut	0			Granodiorite (A)	8.4	--	--	0.01	0.005	0.03	0.9	7	6.0	--	7.5
52499	ABA9	road cut	0			Granodiorite (A)	8.3	--	--	0.015	0.005	0.03	0.9	9	8.0	--	9.6
52608	DG 95-90-R	45	50			Granodiorite (A)	8.7	--	--	0.025	0.01	0.02	0.6	10	9.0	--	16.0
52623	DG 95-90-R	110	115			Granodiorite (A)	8.4	--	--	0.181	0.005	0.15	4.7	71	65.0	--	15.1
52642	DG 95-90-R	200	205			Granodiorite (A)	8.8	--	--	0.004	0.005	0.005	0.1	34	33.0	--	272.0
52946	DG 95-92-R	55	60			Granodiorite (A)	8.5	--	--	0.005	0.005	0.005	0.2	27	26.0	--	172.8
53229	DG 95-93-R	5	10			Granodiorite (A)	8.3	--	--	0.002	0.005	0.005	0.1	8	7.0	--	128.0
70792	DG 95-133-R	45	50			Granodiorite (A)	8.7	--	--	0.016	0.01	0.01	0.3	27	26.0	--	86.4
71036	DG 95-135-R	15	20			Granodiorite (A)	8.4	--	--	0.006	0.005	0.01	0.3	7	6.0	--	22.4
71058	DG 95-135-R	125	130			Granodiorite (A)	8.4	--	--	0.089	0.005	0.09	2.8	15	12.0	--	5.3
72867	DG 95-102-C	15	20			Granodiorite (A)	8.3	--	--	0.003	0.01	0.005	0.2	4	3.0	--	25.6
72893	DG 95-102-C	135	140			Granodiorite (A)	8.3	--	--	0.096	0.005	0.09	2.8	17	14.0	--	6.0
75461	DG 95-96-R	30	35			Granodiorite (A)	8.7	--	--	0.002	0.005	0.005	0.1	12	11.0	--	192.0
75616	DG 95-97-R	45	50			Granodiorite (A)	7.7	--	--	0.085	0.01	0.06	1.9	8	5.0	--	4.3
75765	DG 95-98-R	15	20			Granodiorite (A)	8.7	--	--	0.05	0.005	0.04	1.3	26	24.0	--	20.8
77006	DG 95-117-R	35	40			Granodiorite (A)	7.7	--	--	0.002	0.005	0.005	0.2	7	6.0	--	44.8
79452	ABA12	ench wa	0			Granodiorite (A)	8.3	--	--	0.012	0.005	0.03	0.9	8	7.0	--	8.5
79453	ABA13	cut bank	0			Granodiorite (A)	8.2	--	--	0.006	0.005	0.01	0.3	7	6.0	--	22.4
79456	ABA16	bank	0			Granodiorite (A)	8.1	--	--	0.012	0.01	0.005	0.4	7	6.0	--	18.7
79457	ABA17	ench wa	0			Granodiorite (A)	8.4	--	--	0.007	0.005	0.02	0.6	22	21.0	--	35.2
79458	ABA18	ench wa	0			Granodiorite (A)	8.4	--	--	0.047	0.005	0.05	1.6	38	37.0	--	24.3
79459	ABA19	ench wa	0			Granodiorite (A)	8.1	--	--	0.002	0.005	0.01	0.3	7	6.0	--	22.4
79461	ABA21	road cut	0			Granodiorite (A)	8.2	--	--	0.016	0.005	0.04	1.3	10	9.0	--	8.0
79464	ABA24	ench wa	0			Granodiorite (A)	8.2	--	--	0.007	0.005	0.02	0.6	10	9.0	--	16.0
KT-05	09BGC-GTH-02a			15.6	25.25	Granodiorite (A)	8.5	0.15	12.5	0.06	0.005	0.06	1.9	17.2	15.3	--	9.2
KT-06	09BGC-GTH-03			146.4	155.6	Granodiorite (A)	8.7	0.65	54.2	0.22	0.005	0.22	6.9	42.5	35.6	--	6.2
G019218	DG07-327C			24.69	33.83	oxidized granodiorite (with carbonat	8.5	0.39	32.5	0.04	0.01	0.03	0.9	41.4	40.5	Slight	44.2
G019220	DG07-327C			55.17	65.84	oxidized granodiorite (with carbonat	8.3	0.51	42.5	0.1	0.01	0.1	3.1	46.5	43.4	Slight	14.9
G019227	DG07-331C			92.05	102.7	oxidized granodiorite (with carbonat	8.6	0.21	17.5	0.05	0.01	0.05	1.6	33.7	32.1	Slight	21.6
G019232	DG07-335C			103	113.7	oxidized granodiorite (with carbonat	8.5	0.07	5.8	0.28	0.01	0.27	8.4	21.1	12.7	Slight	2.5
G019233	DG07-335C			173.1	182.3	oxidized granodiorite (with carbonat	8.1	0.17	14.2	0.31	0.02	0.29	9.1	38.3	29.2	Slight	4.2
G019234	DG07-335C			197.5	207.4	oxidized granodiorite (with carbonat	9.0	0.17	14.2	0.07	0.01	0.07	2.2	21	18.8	Slight	9.6
G019260	DG07-303C			64.01	74.01	oxidized granodiorite (with carbonat	8.9	0.07	5.8	0.03	0.01	0.03	0.9	13.4	12.5	Slight	14.3
G019262	DG07-303C			18.29	24.08	oxidized granodiorite (with carbonat	8.3	0.1	8.3	0.15	0.02	0.13	4.1	16	11.9	Slight	3.9
1083	DG 95-80-R	410	415			Granodiorite (B)	7.8	--	--	0.809	0.02	0.83	25.9	8	-17.0	--	0.3
1112	DG 95-80-R	550	555			Granodiorite (B)	8.3	--	--	0.202	0.02	0.16	5.0	37	31.0	--	7.4
1143	DG 95-80-R	695	700			Granodiorite (B)	8.5	--	--	0.189	0.02	0.16	5.0	61	55.0	--	12.2
1299	DG 95-81-R	655	660			Granodiorite (B)	8.2	--	--	0.212	0.02	0.15	4.7	41	34.0	--	8.7
1342	DG 95-81-R	880	885			Granodiorite (B)	8.5	--	--	0.207	0.01	0.17	5.3	27	21.0	--	5.1
1399	DG 95-83-R	405	410			Granodiorite (B)	8.6	--	--	0.242	0.01	0.23	7.2	38	30.0	--	5.3
1441	DG 95-83-R	595	600			Granodiorite (B)	8.4	--	--	0.088	0.01	0.1	3.1	55	52.0	--	17.6
1457	DG 95-84-R	545	550			Granodiorite (B)	8.5	--	--	0.102	0.01	0.11	3.4	35	32.0	--	10.2
1496	DG 95-85-R	415	420			Granodiorite (B)	8.6	--	--	0.032	0.01	0.04	1.3	33	32.0	--	26.4
1555	DG 95-86-R	360	365			Granodiorite (B)	8.5	--	--	0.061	0.02	0.06	1.9	27	25.0	--	14.4
1694	DG 95-87-R	525	530			Granodiorite (B)	8.5	--	--	0.073	0.02	0.06	1.9	30	28.0	--	16.0
51816	DG 95-82-R	345	350			Granodiorite (B)	8.5	--	--	0.19	0.01	0.17	5.3	40	34.0	--	7.5
51920	DG 95-83-R	80	85			Granodiorite (B)	8.2	--	--	0.029	0.01	0.01	0.3	59	58.0	--	188.8
51944	DG 95-83-R	185	190			Granodiorite (B)	8.2	--	--	0.167	0.01	0.17	5.3	60	55.0	--	11.3
52162	DG 95-86-R	130	135			Granodiorite (B)	8.6	--	--	0.064	0.01	0.07	2.2	21	19.0	--	9.6
70756	DG 95-132-R	520	525			Granodiorite (B)	8.8	--	--	0.284	0.01	0.26	8.1	29	20.0	--	3.6

Appendix G3 - Acid Base Accounting Results

Sample Number	Drillhole ID	From (ft)	To (ft)	From (m)	To (m)	Rock Type	Paste pH	TIC (%)	$CaCO_3$ NP	Total S (%)	Sulphate (%)	Sulphide (%)	AP	NP	Net NP	Fizz Test	NP/AP
70935	DG 95-134-R	345	350			Granodiorite (B)	8.6	--	--	0.218	0.005	0.22	6.9	36	29.0	--	5.2
72903	DG 95-102-C	185	190			Granodiorite (B)	8.5	--	--	0.077	0.01	0.05	1.6	20	18.0	--	12.8
75492	DG 95-96-R	180	185			Granodiorite (B)	8.7	--	--	0.007	0.005	0.005	0.2	22	21.0	--	100.6
75565	DG 95-96-R	525	530			Granodiorite (B)	8.6	--	--	0.314	0.01	0.3	9.4	28	18.0	--	3.0
75998	DG 95-99-R	400	405			Granodiorite (B)	8.8	--	--	0.259	0.005	0.26	8.1	19	11.0	--	2.3
76948	DG 95-116-R	250	255			Granodiorite (B)	8.8	--	--	0.158	0.005	0.16	5.0	25	20.0	--	5.0
77366	DG 95-119-R	930	935			Granodiorite (B)	8.9	--	--	0.245	0.005	0.24	7.5	39	31.0	--	5.2
77479	DG 95-125-R	505	510			Granodiorite (B)	8.8	--	--	0.117	0.005	0.11	3.4	29	25.0	--	8.4
111085	96 - 154C	420	425			Granodiorite	8.6	--	--	0.14	0.01	0.13	4.0	27	23.0	2	6.8
111205	96 - 155C	450	455			Granodiorite	8.1	--	--	0.23	0.02	0.21	7.0	29	22.0	3	4.1
111485	96 - 157C	500	505			Granodiorite	8.6	--	--	0.17	0.005	0.17	5.0	51	46.0	3	10.2
112150	96 - 192C	50	55			Granodiorite	8.3	--	--	0.03	0.005	0.01	1.0	39	38.0	3	39.0
112447	96 - 193C	355	360			Granodiorite	9.0	--	--	0.07	0.01	0.05	2.0	19	17.0	2	9.5
111219	96 - 155C	515	520			Granodiorite	7.8	--	--	0.45	0.06	0.37	14.0	38	24.0	3	2.7
111367	96 - 156C	495	500			Granodiorite	8.2	--	--	0.15	0.02	0.13	5.0	29	24.0	3	5.8
111493	96 - 157C	535	540			Granodiorite	8.7	--	--	0.23	0.02	0.21	7.0	34	27.0	3	4.9
111511	96 - 157C	620	625			Granodiorite	8.1	--	--	0.36	0.02	0.34	11.0	49	38.0	3	4.5
111617	96 - 158C	395	400			Granodiorite	8.1	--	--	0.07	0.01	0.06	2.0	63	61.0	4	31.5
111624	96 - 158C	425	430			Granodiorite	8.4	--	--	0.72	0.01	0.69	23.0	80	57.0	3	3.5
111794	96 - 159C	640	645			Granodiorite	8.2	--	--	0.05	0.005	0.04	2.0	45	43.0	3	22.5
111804	96 - 159C	685	690			Granodiorite	8.3	--	--	0.07	0.005	0.06	2.0	45	43.0	3	22.5
111809	96 - 159C	705	710			Granodiorite	8.1	--	--	0.07	0.01	0.05	2.0	22	20.0	2	11.0
111955	96 - 160C	630	635			Granodiorite	8.2	--	--	0.32	0.005	0.31	10.0	48	38.0	3	4.8
111970	96 - 160C	700	705			Granodiorite	8.2	--	--	0.16	0.005	0.16	5.0	70	65.0	3	14.0
112127	96 - 191C	700	705			Granodiorite	9.2	--	--	0.26	0.04	0.21	8.0	17	9.0	2	2.1
112170	96 - 192C	140	145			Granodiorite	8.5	--	--	0.01	0.005	0.005	1.0	47	46.0	3	47.0
112235	96 - 192C	440	445			Granodiorite	8.5	--	--	0.17	0.005	0.17	5.0	59	54.0	4	11.8
112302	96 - 192C	750	755			Granodiorite	8.6	--	--	0.12	0.01	0.1	4.0	77	73.0	3	19.3
120181	96 - 162R	360	365			Granodiorite	8.3	--	--	0.06	0.005	0.05	2.0	53	51.0	3	26.5
120280	96 - 163R	300	305			Granodiorite	8.2	--	--	0.005	0.005	0.005	1.0	28	27.0	3	28.0
120296	96 - 163R	370	375			Granodiorite	8.0	--	--	0.01	0.01	0.005	1.0	26	25.0	3	26.0
120384	96 - 164R	320	325			Granodiorite	8.1	--	--	0.005	0.005	0.005	1.0	41	40.0	3	41.0
120421	96 - 165R	60	65			Granodiorite	8.3	--	--	0.01	0.005	0.005	1.0	8	7.0	1	8.0
120481	96 - 165R	315	320			Granodiorite	8.1	--	--	0.07	0.01	0.06	2.0	26	24.0	3	13.0
120498	96 - 165R	390	395			Granodiorite	8.4	--	--	0.01	0.01	0.005	1.0	10	9.0	1	10.0
120647	96 - 166R	565	570			Granodiorite	8.4	--	--	0.3	0.01	0.28	9.0	40	31.0	3	4.4
120778	96 - 168R	30	35			Granodiorite	8.2	--	--	0.01	0.005	0.01	1.0	36	35.0	3	36.0
120822	96 - 168R	220	225			Granodiorite	7.6	--	--	0.85	0.005	0.85	27.0	19	-8.0	2	0.7
120912	96 - 169R	245	250			Granodiorite	7.8	--	--	0.27	0.01	0.2	8.0	11	3.0	1	1.4
121149	96 - 170R	690	695			Granodiorite	8.2	--	--	0.26	0.01	0.26	8.0	79	71.0	3	9.9
121241	96 - 171R	385	390			Granodiorite	8.6	--	--	0.17	0.005	0.17	5.0	41	36.0	3	8.2
121369	96 - 172R	180	185			Granodiorite	8.4	--	--	0.15	0.01	0.14	5.0	40	35.0	3	8.0
121474	96 - 172R	630	635			Granodiorite	8.2	--	--	0.26	0.01	0.24	8.0	38	30.0	3	4.8
121495	96 - 172R	720	725			Granodiorite	8.2	--	--	0.11	0.01	0.1	3.0	60	57.0	4	20.0
121786	96 - 174R	525	530			Granodiorite	8.4	--	--	0.2	0.02	0.18	6.0	51	45.0	4	8.5
121939	96 - 175R	525	530			Granodiorite	8.7	--	--	0.02	0.01	0.005	1.0	53	52.0	4	53.0
121949	96 - 175R	565	570			Granodiorite	8.7	--	--	0.01	0.01	0.005	1.0	18	17.0	2	18.0
122253	96 - 179R	390	395			Granodiorite	8.5	--	--	0.005	0.005	0.005	1.0	48	47.0	3	48.0
122445	96 - 181R	415	420			Granodiorite	8.6	--	--	0.01	0.005	0.005	1.0	9	8.0	2	9.0
122626	96 - 184R	335	340			Granodiorite	8.2	--	--	0.18	0.01	0.17	6.0	30	24.0	3	5.0
122771	96 - 185R	615	620			Granodiorite	8.6	--	--	0.32	0.01	0.31	10.0	72	62.0	4	7.2
122785	96 - 185R	675	680			Granodiorite	8.4	--	--	0.22	0.01	0.2	7.0	86	79.0	4	12.3
122929	96 - 186R	590	595			Granodiorite	8.5	--	--	0.21	0.01	0.18	7.0	65	58.0	4	9.3
122959	96 - 186R	720	725			Granodiorite	8.5	--	--	0.13	0.01	0.11	4.0	44	40.0	3	11.0
122978	96 - 207R	295	300			Granodiorite	8.0	--	--	2.8	0.03	2.72	88.0	49	-39.0	4	0.6
123317	96 - 189R	400	405			Granodiorite	8.5	--	--	0.22	0.01	0.21	7.0	49	42.0	3	7.0
123697	96 - 204R	250	255			Granodiorite	8.2	--	--	0.02	0.005	0.005	1.0	17	16.0	2	17.0
123777	96 - 205R	200	205			Granodiorite	8.5	--	--	0.005	0.005	0.005	1.0	20	19.0	2	20.0
123906	96 - 206R	260	265			Granodiorite	8.2	--	--	0.05	0.01	0.02	2.0	19	17.0	2	9.5
123964	96 - 207R	235	240			Granodiorite	8.0	--	--	0.05	0.005	0.04	2.0	11	9.0	1	5.5
111005	96 - 154C	50	55			Granodiorite	8.4	--	--	0.005	0.005	0.005	1.0	41	40.0	3	41.0
09BGC-GTH-02a Int. 269.44-280.1	09BGC-GTH-02a			269.4	280.1	Granodiorite (B)	8.1	1.01	84.2	0.9	0.01	0.89	27.8	43.8	16.0	Slight	1.6

Appendix G3 - Acid Base Accounting Results

Sample Number	Drillhole ID	From (ft)	To (ft)	From (m)	To (m)	Rock Type	Paste pH	TIC (%)	$CaCO_3$ NP	Total S (%)	Sulphate (%)	Sulphide (%)	AP	NP	Net NP	Fizz Test	NP/AP
DG11-414C Int. 173.74-184.4	DG11-414C			173.7	184.4	Granodiorite (B)	8.5	0.29	24.2	0.34	0.01	0.34	10.6	29.4	18.8	Slight	2.8
KT-03	09BGC-GTH-01			74.45	88.02	Granodiorite (B)	8.7	0.28	23.3	0.18	0.01	0.17	5.3	27.4	22.1	--	5.2
KT-04	09BGC-GTH-01			205.6	216.3	Granodiorite (B)	8.9	0.42	35.0	0.13	0.005	0.13	4.1	37.2	33.1	--	9.2
DG11-419C Int. 173.74-182.88	DG11-419C			173.7	182.9	Coarse Granodiorite (B)	8.6	0.23	19.2	0.16	0.01	0.16	5.0	24.8	19.8	Slight	5.0
DG11-417C Int. 163.07-173.74	DG11-417C			163.1	173.7	Medium Granodiorite	8.3	0.27	22.5	0.21	0.01	0.21	6.6	25.8	19.2	Slight	3.9
10BGC-GTH-05 Int. 118.9-123.9	10BGC-GTH-05			118.9	123.9	Medium Granodiorite (B)	8.6	0.39	32.5	0.38	0.01	0.38	11.9	34.8	22.9	Slight	2.9
G019205	DG05-308C			34	44	unaltered granodiorite - w or w/o ca	8.9	0.05	4.2	0.04	0.01	0.04	1.3	13.3	12.1	Slight	10.6
G019206	DG05-308C			50.11	60.11	unaltered granodiorite - w or w/o ca	8.3	0.32	26.7	0.02	0.01	0.02	0.6	32.2	31.6	Slight	51.5
G019221	DG07-327C			82.6	92.6	unaltered granodiorite - w or w/o ca	8.2	0.33	27.5	0.08	0.04	0.04	1.3	35.9	34.7	Slight	28.7
G019228	DG07-331C			105.8	115.5	unaltered granodiorite - w or w/o ca	8.7	0.26	21.7	0.09	0.01	0.09	2.8	26.5	23.7	Slight	9.4
G019229	DG07-331C			150.3	159.1	unaltered granodiorite - w or w/o ca	9.1	0.35	29.2	0.09	0.01	0.09	2.8	34.6	31.8	Slight	12.3
G019241	DG07-305C			112.8	122.9	unaltered granodiorite - w or w/o ca	8.7	0.36	30.0	0.3	0.01	0.3	9.4	7.1	-2.3	Slight	0.8
G019242	DG07-305C			169	178.3	unaltered granodiorite - w or w/o ca	9.0	0.25	20.8	0.24	0.01	0.24	7.5	13.6	6.1	Slight	1.8
G019251	DG07-311C			130.5	140.5	unaltered granodiorite - w or w/o ca	9.3	0.13	10.8	0.17	0.01	0.17	5.3	19.2	13.9	Slight	3.6
10BGC-GTH-08 Int. 14.63-26.82	10BGC-GTH-08			14.63	26.82	Hornfels (Metasediment (A?))	8.2	0.08	6.7	0.08	0.01	0.08	2.5	10.8	8.3	None	4.3
11BGC-GTH-10 Int. 10.36-20.12	11BGC-GTH-10			10.36	20.12	Hornfels (Metasediment (A?))	7.9	0.01	0.8	0.09	0.02	0.07	2.2	7.3	5.1	None	3.3
DG11-417C Int. 24.38-35.05	DG11-417C			24.38	35.05	Hornfels (Metasediment (A?))	8.2	0.1	8.3	0.02	0.01	0.02	0.6	13.4	12.8	Slight	21.4
DG11-419C Int. 21.47-27.43	DG11-419C			21.47	27.43	Hornfels (Metasediment (A?))	8.4	0.05	4.2	0.01	0.01	0.01	0.3	11	10.7	None	35.2
DG11-419C Int. 37.72-42.1	DG11-419C			37.72	42.1	Hornfels (Metasediment (A?))	8.1	0.05	4.2	0.03	0.01	0.03	0.9	9.4	8.5	None	10.0
10BGC-GTH-06 Int. 158.16-168-	10BGC-GTH-06			158.2	168.8	Hornfels (Metasediment (B))	8.3	0.15	12.5	0.27	0.01	0.27	8.4	14.9	6.5	Slight	1.8
11BGC-GTH-10 Int. 146.1-156.67	11BGC-GTH-10			146.1	156.7	Hornfels (Metasediment (B))	8.1	0.15	12.5	0.69	0.02	0.67	20.9	17.9	-3.0	Slight	0.9
11BGC-GTH-10 Int. 49.35-59.95	11BGC-GTH-10			49.35	59.95	Hornfels (Metasediment (B))	8.4	0.14	11.7	0.12	0.01	0.12	3.8	15	11.3	Slight	4.0
11BGC-GTH-10 Int. 99.52-110.79	11BGC-GTH-10			99.52	110.8	Hornfels (Metasediment (B))	8.6	0.1	8.3	0.23	0.01	0.23	7.2	14.6	7.4	Slight	2.0
11BGC-GTH-12 Int. 120.78-	11BGC-GTH-12			120.8	130.9	Hornfels (Metasediment (B))	8.4	0.11	9.2	0.08	0.01	0.08	2.5	10.7	8.2	Slight	4.3
11BGC-GTH-12 Int. 160.93-	11BGC-GTH-12			160.9	170.1	Hornfels (Metasediment (B))	8.3	0.32	26.7	0.26	0.01	0.26	8.1	30.3	22.2	Slight	3.7
11BGC-GTH-12 Int. 192.94-	11BGC-GTH-12			192.9	202.1	Hornfels (Metasediment (B))	8.3	1	83.3	1.4	0.01	1.39	43.4	23.9	-19.5	Slight	0.6
11BGC-GTH-12 Int. 63.55-73.5	11BGC-GTH-12			63.55	73.5	Hornfels (Metasediment (B))	8.5	0.09	7.5	0.1	0.01	0.1	3.1	9.2	6.1	Slight	2.9
11BGC-GTH-12 Int. 99.97-110.11	11BGC-GTH-12			99.97	110.1	Hornfels (Metasediment (B))	8.8	0.11	9.2	0.22	0.01	0.22	6.9	14.3	7.4	Slight	2.1
DG11-414C Int. 62.48-73.15	DG11-414C			62.48	73.15	Hornfels (Metasediment (B))	8.0	0.11	9.2	0.18	0.02	0.16	5.0	16	11.0	Slight	3.2
DG11-414C Int. 73.15-82.3	DG11-414C			73.15	82.3	Hornfels (Metasediment (B))	8.1	0.14	11.7	0.16	0.11	0.05	1.6	12.1	10.5	Slight	7.7
11BGC-GTH10 Int. 146.1-156.67				146.1	156.7	Hornfels (Meta-sediment (B))	6.7	0.16	13.3	0.65	0.02	0.63	19.7	14.3	-5.4	Slight	0.7
G019204	DG05-308C			27	34	hornfelsic metasedimentary	8.3	0.29	24.2	0.02	0.01	0.02	0.6	30.3	29.7	Slight	48.5
G019208	DG05-308C			69.95	77.45	hornfelsic metasedimentary	8.5	0.23	19.2	0.01	0.01	0.01	0.3	26.2	25.9	Slight	83.8
G019211	DG05-308C			92.96	100	hornfelsic metasedimentary	8.7	0.09	7.5	0.01	0.01	0.01	0.3	15	15.0	Slight	0.0
G019215	DG05-308C			128	132.2	hornfelsic metasedimentary	8.3	0.22	18.3	0.14	0.01	0.13	4.1	23	18.9	Slight	5.7
G019236	DG07-305C			1.52	9.14	hornfelsic metasedimentary	8.2	0.04	3.3	0.31	0.01	0.31	9.7	29.1	19.4	Slight	3.0
G019237	DG07-305C			9.14	18.29	hornfelsic metasedimentary	8.2	0.06	5.0	0.04	0.01	0.04	1.3	17	15.8	Slight	13.6
G019239	DG07-305C			68	77.72	hornfelsic metasedimentary	8.4	0.19	15.8	0.31	0.01	0.31	9.7	18	8.3	Slight	1.9
G019240	DG07-305C			82.3	92.3	hornfelsic metasedimentary	8.5	0.22	18.3	0.08	0.01	0.08	2.5	21.3	18.8	None	8.5
51752	DG 95-82-R	45	50			Metasediment (B)	7.8	--	--	0.048	0.01	0.04	1.3	25	23.8	--	20.0
51754	DG 95-82-R	55	60			Metasediment (B)	8.1	--	--	0.014	0.005	0.02	0.6	16	15.0	--	25.6
52066	DG 95-85-R	5	10			Metasediment (B)	8.4	--	--	0.008	0.01	0.005	0.3	10	9.0	--	40.0
52084	DG 95-85-R	95	100			Metasediment (B)	8.1	--	--	0.088	0.02	0.07	2.2	6	3.0	--	2.7
52106	DG 95-85-R	195	200			Metasediment (B)	8.0	--	--	0.024	0.02	0.03	0.9	15	14.0	--	16.0
52139	DG 95-86-R	20	25			Metasediment (B)	7.4	--	--	0.107	0.03	0.08	2.5	8	5.0	--	3.2
52154	DG 95-86-R	95	100			Metasediment (B)	7.7	--	--	0.12	0.03	0.08	2.5	10	6.0	--	4.0
52198	DG 95-86-R	295	300			Metasediment (B)	8.4	--	--	0.035	0.01	0.03	0.9	14	13.0	--	14.9
52207	DG 95-87-R	20	25			Metasediment (B)	8.0	--	--	0.016	0.01	0.005	0.5	4	3.0	--	8.0
52218	DG 95-87-R	75	80			Metasediment (B)	8.0	--	--	0.039	0.02	0.01	0.3	5	4.0	--	16.0
52493	ABA3	ench wa	0			Metasediment (B)	6.6	--	--	0.06	0.01	0.05	1.6	6	4.0	--	3.8
52494	ABA4	ench wa	0			Metasediment (B)	7.4	--	--	0.013	0.01	0.005	0.4	5	4.0	--	12.3
52495	ABA5	ench wa	0			Metasediment (B)	7.9	--	--	0.052	0.01	0.05	1.6	11	9.0	--	7.0
52497	ABA7	road cut	0			Metasediment (B)	7.8	--	--	0.008	0.005	0.02	0.6	4	3.0	--	6.4
52498	ABA8	road cut	0			Metasediment (B)	7.1	--	--	0.142	0.01	0.14	4.4	7	3.0	--	1.6
52500	ABA10	ench wa	0			Metasediment (B)	7.9	--	--	0.003	0.005	0.03	0.9	4	3.0	--	4.3
70869	DG 95-134-R	20	25			Metasediment (B)	7.1	--	--	0.488	0.07	0.43	13.4	12	-3.0	--	0.9
70902	DG 95-134-R	180	185			Metasediment (B)	8.3	--	--	0.117	0.005	0.11	3.4	23	19.0	--	6.7
70928	DG 95-134-R	310	315			Metasediment (B)	8.3	--	--	0.067	0.005	0.07	2.2	10	8.0	--	4.6
72877	DG 95-102-C	60	65			Metasediment (B)	8.1	--	--	0.055	0.005	0.04	1.3	9	7.0	--	7.2
72885	DG 95-102-C	100	105			Metasediment (B)	8.4	--	--	0.038	0.005	0.05	1.6	4	3.0	--	2.6
72910	DG 95-102-C	215	220			Metasediment (B)	8.6	--	--	0.023	0.005	0.02	0.6	21	20.0	--	33.6
75920	DG 95-99-R	30	35			Metasediment (B)	8.5	--	--	0.002	0.005	0.005	0.1	10	9.0	--	160.0

Appendix G3 - Acid Base Accounting Results

Sample Number	Drillhole ID	From (ft)	To (ft)	From (m)	To (m)	Rock Type	Paste pH	TIC (%)	$CaCO_3$ NP	Total S (%)	Sulphate (%)	Sulphide (%)	AP	NP	Net NP	Fizz Test	NP/AP
75946	DG 95-99-R	155	160			Metasediment (B)	8.0	--	--	0.193	0.01	0.18	5.6	18	12.0	--	3.2
77175	DG 95-119-R	20	25			Metasediment (B)	8.2	--	--	0.008	0.005	0.005	0.2	19	18.0	--	121.6
77178	DG 95-119-R	35	40			Metasediment (B)	8.3	--	--	0.06	0.005	0.04	1.3	25	23.0	--	20.0
77223	DG 95-119-R	250	255			Metasediment (B)	8.1	--	--	0.054	0.005	0.05	1.6	18	16.0	--	11.5
77383	DG 95-125-R	50	55			Metasediment (B)	8.5	--	--	0.004	0.005	0.005	0.2	16	15.0	--	102.4
77406	DG 95-125-R	160	165			Metasediment (B)	8.6	--	--	0.005	0.005	0.005	0.2	23	22.0	--	147.2
78402	DG 95-132-R	10	15			Metasediment (B)	8.0	--	--	0.005	0.005	0.005	0.2	6	5.0	--	38.4
78449	DG 95-132-R	240	245			Metasediment (B)	8.5	--	--	0.034	0.005	0.02	0.6	16	15.0	--	25.6
78471	DG 95-132-R	520	525			Metasediment (B)	8.2	--	--	0.095	0.005	0.07	2.2	26	23.0	--	11.9
79451	ABA11	rench cu	0			Metasediment (B)	7.4	--	--	0.013	0.005	0.02	0.6	4	3.0	--	6.4
79454	ABA14	p at end	0			Metasediment (B)	7.5	--	--	0.028	0.005	0.04	1.3	5	4.0	--	4.0
79455	ABA15	cut bank	0			Metasediment (B)	7.5	--	--	0.014	0.005	0.02	0.6	5	4.0	--	8.0
79460	ABA20	p of tren	0			Metasediment (B)	7.9	--	--	0.07	0.005	0.08	2.5	9	7.0	--	3.6
79462	ABA22	ench wa	0			Metasediment (B)	7.0	--	--	0.007	0.005	0.01	0.3	2	1.0	--	6.4
79463	ABA23	road cut	0			Metasediment (B)	7.7	--	--	0.022	0.005	0.04	1.3	6	5.0	--	4.8
111270	96 - 156C	50	55			Metasediment	8.1	--	--	0.005	0.005	0.005	1.0	35	34.0	3	35.0
111554	96 - 158C	105	110			Metasediment	8.2	--	--	0.005	0.005	0.005	1.0	3	2.0	1	3.0
111662	96 - 159C	30	35			Metasediment	8.0	--	--	0.01	0.01	0.005	1.0	5	4.0	1	5.0
111833	96 - 160C	70	75			Metasediment	8.2	--	--	0.005	0.005	0.005	1.0	16	15.0	2	16.0
111996	96 - 191C	100	105			Metasediment	8.6	--	--	0.005	0.005	0.005	1.0	38	37.0	2	38.0
111310	96 - 156C	235	240			Metasediment	8.4	--	--	0.005	0.005	0.005	1.0	4	3.0	1	4.0
111577	96 - 158C	210	215			Metasediment	8.2	--	--	0.01	0.005	0.005	1.0	27	26.0	3	27.0
111702	96 - 159C	215	220			Metasediment	8.5	--	--	0.05	0.01	0.04	2.0	12	10.0	2	6.0
112462	96 - 193C	425	430			Metasediment	8.6	--	--	0.07	0.005	0.04	2.0	9	7.0	2	4.5
120109	96 - 162R	50	55			Metasediment	8.3	--	--	0.01	0.005	0.01	1.0	5	4.0	1	5.0
120119	96 - 162R	95	100			Metasediment	7.4	--	--	0.005	0.005	0.005	1.0	6	5.0	1	6.0
120224	96 - 163R	55	60			Metasediment	7.7	--	--	0.005	0.005	0.005	1.0	4	3.0	1	4.0
120314	96 - 164R	25	30			Metasediment	7.8	--	--	0.005	0.005	0.005	1.0	4	3.0	1	4.0
120680	96 - 167R	55	60			Metasediment	8.0	--	--	0.08	0.01	0.06	3.0	9	6.0	1	3.0
120878	96 - 169R	100	105			Metasediment	6.8	--	--	0.19	0.005	0.19	6.0	1	-5.0	1	0.2
121036	96 - 170R	210	215			Metasediment	8.8	--	--	0.14	0.02	0.11	4.0	12	8.0	2	3.0
121174	96 - 171R	100	105			Metasediment	8.0	--	--	0.06	0.01	0.04	2.0	8	6.0	1	4.0
121207	96 - 171R	240	245			Metasediment	7.6	--	--	0.03	0.005	0.02	1.0	3	2.0	1	3.0
121527	96 - 173R	40	45			Metasediment	8.4	--	--	0.04	0.01	0.02	1.0	17	16.0	2	17.0
121827	96 - 175R	50	55			Metasediment	8.1	--	--	0.005	0.005	0.005	1.0	6	5.0	1	6.0
121954	96 - 175R	590	595			Metasediment	8.6	--	--	0.005	0.01	0.005	1.0	6	5.0	1	6.0
122008	96 - 176R	220	225			Metasediment	8.2	--	--	0.01	0.005	0.005	1.0	6	5.0	1	6.0
122109	96 - 178R	40	45			Metasediment	7.6	--	--	0.01	0.01	0.005	1.0	25	24.0	2	25.0
123238	96 - 189R	65	70			Metasediment	8.4	--	--	0.07	0.02	0.03	2.0	15	13.0	1	7.5
KT-01	09BGC-GTH-04			191.4	201.3	Metasediment (B)	8.6	0.09	7.5	0.16	0.07	0.09	2.8	11.2	8.4	--	4.0
KT-02	09BGC-GTH-04			235.7	246.4	Metasediment (B)	9.1	0.13	10.8	0.22	0.005	0.22	6.9	15.1	8.2	--	2.2
ST-01	09BGC-GTH-03			46.42	51.85	Metasediment (B)	8.2	0.12	10.0	0.08	0.005	0.08	2.5	11.8	9.3	--	4.7
ST-02	09BGC-GTH-03			51.85	57.91	Metasediment (B)	8.3	0.15	12.5	0.05	0.005	0.05	1.6	11.3	9.7	--	7.2
ST-03	09BGC-GTH-03			57.91	64.01	Metasediment (B)	8.1	0.34	28.3	0.18	0.01	0.17	5.3	18.8	13.5	--	3.5
ST-04	09BGC-GTH-03			64.01	70.1	Metasediment (B)	8.4	0.66	55.0	0.31	0.02	0.29	9.1	37.3	28.2	--	4.1
ST-05	09BGC-GTH-03			70.1	76.2	Metasediment (B)	8.3	0.17	14.2	0.05	0.005	0.05	1.6	10.5	8.9	--	6.7
ST-06	09BGC-GTH-03			76.2	82.35	Metasediment (B)	8.9	0.28	23.3	0.06	0.005	0.06	1.9	18.6	16.7	--	9.9
ST-07	09BGC-GTH-03			82.35	167	Metasediment (B)	8.4	0.24	20.0	0.24	0.01	0.23	7.2	21.7	14.5	--	3.0
ST-08	09BGC-GTH-04			167	173.1	Metasediment (B)	8.3	0.07	5.8	0.09	0.005	0.09	2.8	9.4	6.6	--	3.3
ST-09	09BGC-GTH-04			173.1	178.9	Metasediment (B)	8.5	0.07	5.8	0.06	0.005	0.06	1.9	7.8	5.9	--	4.2
ST-10	09BGC-GTH-04			178.9	184.7	Metasediment (B)	8.4	0.06	5.0	0.15	0.005	0.15	4.7	10	5.3	--	2.1
ST-11	09BGC-GTH-04			184.7	191.4	Metasediment (B)	7.7	0.14	11.7	0.4	0.03	0.37	11.6	20	8.4	--	1.7
ST-12	09BGC-GTH-04			201.3	206.8	Metasediment (B)	8.2	0.27	22.5	0.22	0.03	0.19	5.9	29.8	23.9	--	5.0
ST-13	09BGC-GTH-04			206.8	214.3	Metasediment (B)	8.8	0.12	10.0	0.11	0.01	0.1	3.1	14.4	11.3	--	4.6
ST-14	09BGC-GTH-04			214.3	224.9	Metasediment (B)	8.9	0.12	10.0	0.03	0.005	0.03	0.9	13.6	12.7	--	14.5
ST-15	09BGC-GTH-04			224.9	229.5	Metasediment (B)	8.7	0.1	8.3	0.08	0.005	0.08	2.5	12.3	9.8	--	4.9
ST-16	09BGC-GTH-04			229.5	235.7	Metasediment (B)	8.7	0.41	34.2	0.29	0.02	0.27	8.4	43.7	35.3	--	5.2
ST-17	09BGC-GTH-04			246.3	263.1	Metasediment (B)	8.8	0.16	13.3	0.15	0.005	0.15	4.7	17	12.3	--	3.6
ST-18	09BGC-GTH-04			263.1	269.2	Metasediment (B)	8.5	0.21	17.5	0.11	0.01	0.1	3.1	19.9	16.8	--	6.4
ST-19	09BGC-GTH-04			269.2	275.2	Metasediment (B)	8.5	0.15	12.5	0.08	0.005	0.08	2.5	14.7	12.2	--	5.9
ST-20	09BGC-GTH-04			275.2	281.3	Metasediment (B)	8.4	0.43	35.8	0.07	0.01	0.06	1.9	39.6	37.7	--	21.1
G019202	DG05-308C			12.19	16	metasedimentary	8.8	0.01	0.8	0.06	0.01	0.06	1.9	5.1	3.2	None	2.7

Appendix G3 - Acid Base Accounting Results

Sample Number	Drillhole ID	From (ft)	To (ft)	From (m)	To (m)	Rock Type	Paste pH	TIC (%)	$CaCO_3$ NP	Total S (%)	Sulphate (%)	Sulphide (%)	AP	NP	Net NP	Fizz Test	NP/AP
G019216	DG07-327C			2.5	12.5	metasedimentary	8.5	0.01	0.8	0.03	0.01	0.03	0.9	6.5	5.6	None	6.9
G019224	DG07-331C			12.8	22.8	metasedimentary	8.0	0.01	0.8	0.07	0.04	0.03	0.9	6.8	5.9	None	7.3
G019225	DG07-331C			52.92	62.3	metasedimentary	8.4	0.08	6.7	0.18	0.01	0.18	5.6	13.6	8.0	Slight	2.4
G019226	DG07-331C			73.76	82.91	metasedimentary	8.5	0.2	16.7	0.12	0.01	0.12	3.8	34.1	30.4	Slight	9.1
G019231	DG07-335C			49.68	58.83	metasedimentary	7.9	0.01	0.8	0.47	0.02	0.45	14.1	8.2	-5.9	None	0.6
G019244	DG07-311C			15.2	21.1	metasedimentary	8.8	0.04	3.3	0.03	0.01	0.03	0.9	7.1	6.2	Slight	7.6
G019247	DG07-311C			62.2	72.54	metasedimentary	8.8	0.23	19.2	0.17	0.01	0.17	5.3	22.8	17.5	Slight	4.3
09BGC-GTH-02a Int. 51.88-59.5	09BGC-GTH-02a			51.88	59.5	Sediments (Metasediment (B))	7.9	0.03	2.5	0.07	0.02	0.05	1.6	4	2.4	None	2.6
09BGC-GTH-02a Int.7 2.29-77.47	09BGC-GTH-02a			72.29	77.47	Sediments (Metasediment (B))	8.2	0.06	5.0	0.16	0.01	0.15	4.7	8.5	3.8	None	1.8
DG12-BRL-01	DG10-370c 0-83 (PHYLLITE) + DG11-427C 0-44 (PHYL					FB split_Metasediment (A)	8.2	0.13	10.8	0.03	*0.01*	0.03	0.9	10.7	9.8	Slight	11.4
DG12-BRL-02	DG10-367C 50-115 + 11BGC-GTH-12 75-145					FB split_Metasediment (B)	7.9	0.15	12.5	0.06	0.02	0.04	1.3	13.6	12.4	Slight	10.9
DG12-BRL-03	09BGC-GTH-03 46 to 89; 10 BGC-06 GTH- 0 to 82; 11B					FB split_Metasediment (A) & (B)	8.0	0.18	15.0	0.14	*0.01*	0.14	4.4	13.1	8.7	Slight	3.0
DG12-BRL-04	DG11-418C 0 to 60; DG11-414C 0 to 54; DG11-411C 0					FB split_Granodiorite (A)	8.2	0.14	11.7	0.09	*0.01*	0.09	2.8	14.9	12.1	Slight	5.3
DG12-BRL-05	DG10-367C 116-144 + DG10-370C 84-112					FB split_Granodiorite (B)	8.1	0.21	17.5	0.31	0.01	0.3	9.4	20.1	10.7	Slight	2.1
DG12-BRL-06	DG11-412C 150-199 + DG11-413C 139-201					FB split_Granodiorite (C)	8.2	0.46	38.3	0.26	0.02	0.24	7.5	34.6	27.1	Slight	4.6
DG12-BRL-07	DG11-415C 140-201 + 10BGC-GTH-06 25-75					FB split_Granodiorte (A) & (B)	8.3	0.33	27.5	0.12	*0.01*	0.12	3.8	27.8	24.1	Slight	7.4
DG12-BRL-08	DG09-364C 0 to 60; DG09-365C 0 to 90; DG10-367C 0					FB split_Overburden	7.7	0.05	4.2	*0.01*	*0.01*	*0.01*	*0.3*	7.5	7.5	None	25.0

Note:

AP = Acid potential in tonnes $CaCO_3$ equivalent per 1000 tonnes of material. AP was determined from calculated sulphide sulphur content S(T) - $S(SO_4)$

NP = Neutralization potential in tonnes $CaCO_3$ equivalent per 1000 tonnes of material.

Net NP = NP - AP

Carbonate NP was calculated from TIC originating from carbonate minerals and is expressed in kg $CaCO_3$/tonne.

Sulphate sulphur was determined by 25% hydrochloric acid with gravimetric finish.

Appendix G4: Leach Extraction Test

CLIENT : **SRK Consulting**
PROJECT : **Eagle Gold Project, 366C**
PROJECT # : **09102**
Test : **24 Hour Nanopure Water Leach Extraction Test at 3:1 Liquid to Solid Ratio**
Date : **December 15, 2009**

Leachate Analysis

Sample ID			**KCA No. 42979 Whole**	**KCA No. 42979 (-1/4")**	**Blank**
Parameter	**Method**	**Units**			
Volume Nanopure Water		mL	750	750	750
Sample Weight		g	250	250	250
pH	meter		7.72	7.97	6.62
Redox	meter	mV	321	309	296
Conductivity	meter	uS/cm	444	483	<1
Acidity (to pH 4.5)	titration	mg CaCO3/L	#N/A	#N/A	#N/A
Total Acidity (to pH 8.3)	titration	mg CaCO3/L	2.9	2.9	1.8
Alkalinity	titration	mg CaCO3/L	60.1	62.7	1.2
Sulphate	Turbidity	mg/L	157	187	<1
Ion Balance					
Major Anions	Calc	meq/L	4.47	5.15	#N/A
Major Cations	Calc	meq/L	5.45	5.89	#N/A
Difference	Calc	meq/L	-0.97	-0.74	#N/A
Balance (%)	Calc	%	-9.8%	-6.7%	#N/A
Dissolved Metals					
Hardness CaCO3		mg/L	249	270	<0.5
Aluminum Al	ICP-MS	mg/L	0.0212	0.0196	0.0009
Antimony Sb	ICP-MS	mg/L	0.0412	0.044	<0.00002
Arsenic As	ICP-MS	mg/L	0.00916	0.00964	<0.00002
Barium Ba	ICP-MS	mg/L	0.037	0.0397	0.00006
Beryllium Be	ICP-MS	mg/L	<0.00001	<0.00001	<0.00001
Bismuth Bi	ICP-MS	mg/L	0.000006	0.000007	<0.000005
Boron B	ICP-MS	mg/L	<0.05	<0.05	<0.05
Cadmium Cd	ICP-MS	mg/L	0.000015	0.000021	<0.000005
Calcium Ca	ICP-MS	mg/L	92.3	99.8	<0.05
Chromium Cr	ICP-MS	mg/L	<0.0001	<0.0001	<0.0001
Cobalt Co	ICP-MS	mg/L	0.00333	0.000573	<0.000005
Copper Cu	ICP-MS	mg/L	0.00172	0.00172	0.00025
Iron Fe	ICP-MS	mg/L	0.005	0.003	<0.001
Lead Pb	ICP-MS	mg/L	0.000053	0.000133	0.000008
Lithium Li	ICP-MS	mg/L	0.0103	0.0114	<0.0005
Magnesium Mg	ICP-MS	mg/L	4.6	5.07	<0.05
Manganese Mn	ICP-MS	mg/L	0.0302	0.0322	0.00006
Mercury Hg	ICP-MS	ug/L	<0.01	<0.01	0.01
Molybdenum Mo	ICP-MS	mg/L	0.00682	0.00705	<0.00005
Nickel Ni	ICP-MS	mg/L	0.00118	0.00147	0.00014
Phosphorus P	ICP-MS	mg/L	0.007	0.004	<0.002
Potassium K	ICP-MS	mg/L	5.28	5.69	<0.05
Selenium Se	ICP-MS	mg/L	0.00785	0.00835	<0.00004
Silicon Si	ICP-MS	mg/L	1.85	2.07	<0.1
Silver Ag	ICP-MS	mg/L	0.000008	0.000011	<0.000005
Sodium Na	ICP-MS	mg/L	6.38	6.82	<0.05
Strontium Sr	ICP-MS	mg/L	2.12	2.34	0.00006
Sulphur (S)	ICP-MS	mg/L	61	71	<3
Thallium Tl	ICP-MS	mg/L	0.000028	0.000031	<0.000002
Tin Sn	ICP-MS	mg/L	0.00006	0.00007	0.00007
Titanium Ti	ICP-MS	mg/L	<0.0005	<0.0005	<0.0005
Uranium U	ICP-MS	mg/L	0.0254	0.0276	0.000002
Vanadium V	ICP-MS	mg/L	<0.0002	<0.0002	<0.0002
Zinc Zn	ICP-MS	mg/L	0.0007	0.0011	0.0007
Zirconium Zr	ICP-MS	mg/L	<0.0001	<0.0001	<0.0001

Appendix G5: Size Fraction Analysis

CLIENT : SRK Consulting
PROJECT : Eagle Gold Project, 366C
CEMI Project # : 09102
Test : Size Fraction Analysis
Date : December 11, 2009

KCA No. 42979

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+1/4"	6.300	30.80	6.2%	6.2%
-1/4" + 6	3.360	67.10	13.4%	19.6%
-6 + 10	1.700	72.30	14.5%	34.1%
-10 + 35	0.425	167.20	33.5%	67.6%
-35 + 100	0.150	72.90	14.6%	82.2%
-100 + 270	0.053	49.30	9.9%	92.1%
-270	-0.053	39.30	7.9%	100.0%
TOTAL		498.90	100.0%	

CLIENT : SRK Consulting
PROJECT : Eagle Gold Project, 366C
CEMI Project # : 09102
Test : Size Fraction Analysis
Date : December 18, 2009

KCA No. 42979 (HC #7)

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+1/4"	6.300	2.0	2.0%	2.0%
-6 + 10	1.700	22.9	23.3%	25.3%
-10 + 35	0.425	36.6	37.2%	62.5%
-35 + 100	0.150	17.0	17.3%	79.8%
-100 + 270	0.053	11.7	11.9%	91.7%
-270	-0.053	8.2	8.3%	100.0%
TOTAL		98.40	100.0%	

CLIENT : SRK Consulting
PROJECT : Strata Gold (Dublin Gulch)
CEMI Project # : 0789
Test : Size Fraction Analysis
Date : January 11, 2010

DG05-308C 12.19-18.00

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+1/4"	6.300	26.50	26.6%	26.6%
-1/4" + 6	3.360	32.90	33.0%	59.6%
-6 + 10	1.700	12.60	12.6%	72.2%
-10 + 35	0.425	16.30	16.3%	88.6%
-35 + 100	0.150	4.20	4.2%	92.8%
-100 + 270	0.053	3.40	3.4%	96.2%
-270	-0.053	3.80	3.8%	100.0%
TOTAL		99.70	100.0%	

DG06-311C 130.35-140.45

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+1/4"	6.300	19.50	19.6%	19.6%
-1/4" + 6	3.360	29.50	29.6%	49.2%
-6 + 10	1.700	10.60	10.7%	59.9%
-10 + 35	0.425	19.90	20.0%	79.9%
-35 + 100	0.150	7.40	7.4%	87.3%
-100 + 270	0.053	6.00	6.0%	93.4%
-270	-0.053	6.60	6.6%	100.0%
TOTAL		99.50	100.0%	

DG07-327C 24.69-33.83

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+1/4"	6.300	14.10	14.2%	14.2%
-1/4" + 6	3.360	27.30	27.5%	41.6%
-6 + 10	1.700	12.50	12.6%	54.2%
-10 + 35	0.425	24.50	24.6%	78.9%
-35 + 100	0.150	9.00	9.1%	87.9%
-100 + 270	0.053	6.20	6.2%	94.2%
-270	-0.053	5.80	5.8%	100.0%
TOTAL		99.40	100.0%	

DG05-308C 125.00-128.00

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+1/4"	6.300	11.90	12.0%	12.0%
-1/4" + 6	3.360	23.80	23.9%	35.9%
-6 + 10	1.700	14.30	14.4%	50.3%
-10 + 35	0.425	27.40	27.6%	77.9%
-35 + 100	0.150	9.30	9.4%	87.2%
-100 + 270	0.053	6.40	6.4%	93.7%
-270	-0.053	6.30	6.3%	100.0%
TOTAL		99.40	100.0%	

CLIENT : SRK Consulting
PROJECT : Eagle Gold Project (Victoria Gold)
SGS Project # : 09102
Test : Size Fraction Analysis
Test Date : September 20, 2012

Humidity Cell 13
11BGC-GTH10 Int. 146.1-156.67

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+ 6	**3.360**	1.98	2.0%	2.0%
-6 + 10	**1.700**	8.81	8.8%	10.8%
-10 + 20	**0.850**	24.12	24.1%	34.9%
-20 + 35	**0.425**	11.57	11.6%	46.5%
-35 + 100	**0.150**	9.70	9.7%	56.2%
-100 + 270	**0.053**	18.53	18.5%	74.7%
-270	**-0.053**	25.29	25.3%	100.0%
TOTAL		100.00	100.0%	

Barrel 1
DG12-BRL-01

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+ 1"	**25.000**	55.36	27.7%	27.7%
-1" + 1/2"	**12.500**	75.14	37.6%	65.3%
-1/2" + 3/8"	**9.500**	20.00	10.0%	75.3%
-3/8"+ 1/4"	**6.300**	21.37	10.7%	85.9%
-1/4" + 10	**1.700**	18.81	9.4%	95.3%
-10 + 100	**0.150**	6.22	3.1%	98.5%
-100 + 270	**0.053**	1.80	0.9%	99.4%
-270	**-0.053**	1.30	0.7%	100.0%
TOTAL		200.00	100.0%	

Barrel 2
DG12-BRL-02

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+ 1"	**25.000**	23.01	12.9%	12.9%
-1" + 1/2"	**12.500**	128.48	71.8%	84.6%
-1/2" + 3/8"	**9.500**	8.73	4.9%	89.5%
-3/8"+ 1/4"	**6.300**	7.28	4.1%	93.6%
-1/4" + 10	**1.700**	6.95	3.9%	97.5%
-10 + 100	**0.150**	2.71	1.5%	99.0%
-100 + 270	**0.053**	1.16	0.6%	99.6%
-270	**-0.053**	0.68	0.4%	100.0%
TOTAL		179.00	100.0%	

Barrel 3
DG12-BRL-03

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+ 1"	**25.000**	24.10	13.6%	13.6%
-1" + 1/2"	**12.500**	91.39	51.6%	65.2%
-1/2" + 3/8"	**9.500**	9.90	5.6%	70.8%
-3/8"+ 1/4"	**6.300**	14.86	8.4%	79.2%
-1/4" + 10	**1.700**	20.53	11.6%	90.8%
-10 + 100	**0.150**	12.14	6.9%	97.7%
-100 + 270	**0.053**	2.86	1.6%	99.3%
-270	**-0.053**	1.22	0.7%	100.0%
TOTAL		177.00	100.0%	

Barrel 4
DG12-BRL-04

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+ 1"	**25.000**	117.24	64.4%	64.4%
-1" + 1/2"	**12.500**	32.97	18.1%	82.5%
-1/2" + 3/8"	**9.500**	1.96	1.1%	83.6%
-3/8"+ 1/4"	**6.300**	6.84	3.8%	87.4%
-1/4" + 10	**1.700**	8.13	4.5%	91.8%
-10 + 100	**0.150**	10.63	5.8%	97.7%
-100 + 270	**0.053**	2.84	1.6%	99.2%
-270	**-0.053**	1.39	0.8%	100.0%
TOTAL		182.00	100.0%	

Barrel 5
DG12-BRL-05

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+ 1"	**25.000**	61.22	40.8%	40.8%
-1" + 1/2"	**12.500**	57.95	38.6%	79.4%
-1/2" + 3/8"	**9.500**	6.25	4.2%	83.6%
-3/8"+ 1/4"	**6.300**	6.76	4.5%	88.1%
-1/4" + 10	**1.700**	9.40	6.3%	94.4%
-10 + 100	**0.150**	6.30	4.2%	98.6%
-100 + 270	**0.053**	1.33	0.9%	99.5%
-270	**-0.053**	0.79	0.5%	100.0%
TOTAL		150.00	100.0%	

Barrel 6
DG12-BRL-06

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+ 1"	**25.000**	94.96	48.9%	48.9%
-1" + 1/2"	**12.500**	78.24	40.3%	89.3%
-1/2" + 3/8"	**9.500**	5.26	2.7%	92.0%
-3/8"+ 1/4"	**6.300**	4.36	2.2%	94.2%
-1/4" + 10	**1.700**	6.31	3.3%	97.5%
-10 + 100	**0.150**	3.70	1.9%	99.4%
-100 + 270	**0.053**	0.84	0.4%	99.8%
-270	**-0.053**	0.33	0.2%	100.0%
TOTAL		194.00	100.0%	

Barrel 7
DG12-BRL-07

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+ 1"	**25.000**	83.67	55.8%	55.8%
-1" + 1/2"	**12.500**	31.90	21.3%	77.0%
-1/2" + 3/8"	**9.500**	5.77	3.8%	80.9%
-3/8"+ 1/4"	**6.300**	10.44	7.0%	87.9%
-1/4" + 10	**1.700**	10.93	7.3%	95.1%
-10 + 100	**0.150**	5.53	3.7%	98.8%
-100 + 270	**0.053**	1.00	0.7%	99.5%
-270	**-0.053**	0.76	0.5%	100.0%
TOTAL		150.00	100.0%	

Barrel 8
DG12-BRL-08

Sieve Designation	Aperture (mm)	Weight Retained (g)	(%)	Cumulative (%)
+ 1"	**25.000**	35.00	19.1%	19.1%
-1" + 1/2"	**12.500**	45.07	24.6%	43.8%
-1/2" + 3/8"	**9.500**	19.08	10.4%	54.2%
-3/8"+ 1/4"	**6.300**	19.81	10.8%	65.0%
-1/4" + 10	**1.700**	38.82	21.2%	86.2%
-10 + 100	**0.150**	20.40	11.1%	97.4%
-100 + 270	**0.053**	3.22	1.8%	99.1%
-270	**-0.053**	1.60	0.9%	100.0%
TOTAL		183.00	100.0%	

Appendix H: Kinetic Program Laboratory Results for Waste Rock

Appendix H1: Historical Kinetic Test Result Tables

DGK 1

Sample Wt. (kg 1 Concentrations

Date	Cycle	Days	Volume (L)	pH	Conductivity (uS/cm)	Alkalinity (mg/L)	Sulphate (mg/L)	Al (mg/L)	Sb (mg/L)	As (mg/L)	Ba (mg/L)	Be (mg/L)	Bi (mg/L)	B (mg/L)	Cd (mg/L)	Ca (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Pb (mg/L)	Li (mg/L)	Mg (mg/L)	Mn (mg/L)	Hg (mg/L)	Mo (mg/L)	Ni (mg/L)	P (mg/L)	K (mg/L)	Se (mg/L)	Si (mg/L)	Ag (mg/L)	Na (mg/L)	Sr (mg/L)	Tl (mg/L)	Sn (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
24-Sep-96	0	0	0.318	7.89	181	38.1	44.7	0.2	0.0095	0.0047	0.02	0.005	0.1	0.1	0.0043	21.3	0.01	0.01	0.01	0.03	0.001	0.02	2.59	0.045	5E-05	0.03	0.02	0.3	6	0.2	1.29	0.01	7	0.393	0.1	0.03	0.01	0.03	0.005
1-Oct-96	1	7	0.466	7.67	584	46.1	237	0.2	0.185	0.0262	0.05	0.005	0.1	0.1	0.0013	71	0.01	0.01	0.01	0.03	0.001	0.03	11.8	0.148	5E-05	0.03	0.02	0.3	8	0.2	3.04	0.01	23	2.8	0.1	0.3	0.01	0.03	0.022
8-Oct-96	2	14	0.462	7.77	160	31.5	34.9	0.2	0.0146	0.0109	0.01	0.005	0.1	0.1	0.0002	17.1	0.01	0.01	0.01	0.03	0.001	0.01	2.39	0.047	5E-05	0.03	0.02	0.3	5	0.2	1.79	0.01	3	0.315	0.1	0.2	0.01	0.03	0.005
15-Oct-96	3	21	0.457	7.8	116	28.1	23.5	0.2	0.0118	0.006	0.01	0.005	0.1	0.1	0.0002	13.8	0.01	0.01	0.01	0.03	0.001	0.01	1.88	0.036	5E-05	0.03	0.02	0.3	4	0.2	1.64	0.01	2	0.264	0.1	0.3	0.01	0.03	0.005
22-Oct-96	4	28	0.458	7.73	87.5	24.6	17.6	0.2	0.0094	0.0113	0.01	0.005	0.1	0.1	0.0002	11.4	0.01	0.01	0.01	0.03	0.001	0.01	1.5	0.026	5E-05	0.03	0.02	0.3	3	0.2	1.51	0.01	2	0.218	0.1	0.3	0.01	0.03	0.007
29-Oct-96	5	35	0.437			20.7	13.4	0.2	0.0079	0.0109	0.01	0.005	0.1	0.1	0.0002	9.27	0.01	0.01	0.01	0.03	0.001	0.01	1.17	0.021	5E-05	0.03	0.02	0.3	3	0.2	1.07	0.01	2	0.174	0.1	0.3	0.01	0.03	0.005
5-Nov-96	6	42	0.456			22.9	12.9	0.2	0.008	0.0095	0.01	0.005	0.1	0.1	0.0002	9.81	0.01	0.01	0.01	0.03	0.001	0.01	1.31	0.02	5E-05	0.03	0.02	0.3	3	0.2	1.19	0.01	2	0.17	0.1	0.3	0.01	0.03	0.01
12-Nov-96	7	49	0.458			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Nov-96	8	56	0.439	7.31	61	16.6	9.8	0.2	0.0075	0.0072	0.01	0.005	0.1	0.1	0.0034	7.41	0.01	0.01	0.01	0.03	0.001	0.01	0.93	0.013	5E-05	0.03	0.02	0.3	3	0.2	0.91	0.01	2	0.139	0.1	0.3	0.01	0.03	0.005
26-Nov-96	9	63				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Dec-96	10	70				15.8	17.6	0.2	0.0074	0.006	0.01	0.005	0.1	0.1	0.0002	9.23	0.01	0.01	0.01	0.03	0.001	0.01	1.07	0.015	5E-05	0.03	0.02	0.3	2	0.2	0.85	0.01	2	0.163	0.1	0.3	0.01	0.03	0.006
10-Dec-96	11	77				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Dec-96	12	84				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-96	13	91	0.425	7.5	48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Dec-96	14	98	0.428	7.1	47	12.9	7.7	0.2	0.0049	0.0061	0.01	0.005	0.1	0.1	0.0002	5.9	0.01	0.01	0.01	0.03	0.001	0.01	0.71	0.006	5E-05	0.03	0.02	0.3	2	0.2	0.63	0.01	2	0.104	0.1	0.3	0.01	0.03	0.005
7-Jan-97	15	105	0.418	6.9	45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jan-97	16	112	0.415	6.9	50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-97	17	119	0.447	6.7	58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-97	18	126	0.433	7.49	51.1	13.5	9.4	0.2	0.0052	0.03	0.01	0.005	0.1	0.1	0.0002	6.96	0.01	0.01	0.01	0.03	0.001	0.01	0.8	0.009	5E-05	0.03	0.02	0.3	2	0.2	0.76	0.01	2	0.121	0.1	0.3	0.01	0.03	0.007
4-Feb-97	19	133	0.444	6.9	56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-97	20	140	0.446	7	56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-97	21	147	0.441			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-97	22	154	0.473			14.4	10	0.2	0.0081	0.0064	0.01	0.005	0.1	0.1	0.0002	7.43	0.01	0.01	0.01	0.03	0.001	0.01	0.76	0.007	5E-05	0.03	0.02	0.3	2	0.2	0.75	0.01	2	0.119	0.1	0.3	0.01	0.03	0.005
4-Mar-97	23	161	0.447			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-97	24	168	0.432	6.8	37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-97	25	175				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-97	26	182				11.3	6.9	0.2	0.0068	0.005	0.01	--	0.1	--	0.0002	5.3	0.01	0.01	0.01	0.03	0.001	--	0.6	0.005	5E-05	0.03	0.02	0.3	2	0.2	0.62	0.01	2	0.09	0.1	0.3	--	--	0.005

DGK 1

Sample Wt. (kg 1 Loadings

Date	Cycle	Alkalinity mg/kg/wk	Sulphate mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk	Pb mg/kg/wk	Li mg/kg/wk	Mg mg/kg/wk	Mn mg/kg/wk	Hg mg/kg/wk	Mo mg/kg/wk	Ni mg/kg/wk	P mg/kg/wk	K mg/kg/wk	Se mg/kg/wk
24-Sep-96	0	12.1645	14.2717	0.0639	0.0030	0.0015	0.0064	0.0016	0.0319	0.0319	0.0014	6.8006	0.0032	0.0032	0.0032	0.0096	0.0003	0.0064	0.8269	0.0144	0.000016	0.0096	0.0064	0.0958	1.9157	0.0639
1-Oct-96	1	21.5689	110.8855	0.0936	0.0866	0.0123	0.0234	0.0023	0.0468	0.0468	0.0006	33.2189	0.0047	0.0047	0.0047	0.0140	0.0005	0.0140	5.5209	0.0692	0.000023	0.0140	0.0094	0.1404	3.7430	0.0936
8-Oct-96	2	14.6114	16.1886	0.0928	0.0068	0.0051	0.0046	0.0023	0.0464	0.0464	0.0001	7.9319	0.0046	0.0046	0.0046	0.0139	0.0005	0.0046	1.1086	0.0218	0.000023	0.0139	0.0093	0.1392	2.3193	0.0928
15-Oct-96	3	12.8933	10.7826	0.0918	0.0054	0.0028	0.0046	0.0023	0.0459	0.0459	0.0001	6.3319	0.0046	0.0046	0.0046	0.0138	0.0005	0.0046	0.8626	0.0165	0.000023	0.0138	0.0092	0.1377	1.8353	0.0918
22-Oct-96	4	11.3120	8.0932	0.0920	0.0043	0.0052	0.0046	0.0023	0.0460	0.0460	0.0001	5.2422	0.0046	0.0046	0.0046	0.0138	0.0005	0.0046	0.6898	0.0120	0.000023	0.0138	0.0092	0.1380	1.3795	0.0920
29-Oct-96	5	9.0822	5.8793	0.0878	0.0035	0.0048	0.0044	0.0022	0.0439	0.0439	0.0001	4.0673	0.0044	0.0044	0.0044	0.0132	0.0004	0.0044	0.5133	0.0092	0.000022	0.0132	0.0088	0.1316	1.3163	0.0878
5-Nov-96	6	10.4843	5.9060	0.0916	0.0037	0.0043	0.0046	0.0023	0.0458	0.0458	0.0001	4.4913	0.0046	0.0046	0.0046	0.0137	0.0005	0.0046	0.5998	0.0092	0.000023	0.0137	0.0092	0.1373	1.3735	0.0916
12-Nov-96	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Nov-96	8	7.3167	4.3195	0.0882	0.0033	0.0032	0.0044	0.0022	0.0441	0.0441	0.0015	3.2661	0.0044	0.0044	0.0044	0.0132	0.0004	0.0044	0.4099	0.0057	0.000022	0.0132	0.0088	0.1322	1.3223	0.0882
26-Nov-96	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Dec-96	10	6.7737	7.5454	0.0857	0.0032	0.0026	0.0043	0.0021	0.0429	0.0429	0.0001	3.9570	0.0043	0.0043	0.0043	0.0129	0.0004	0.0043	0.4587	0.0064	0.000021	0.0129	0.0086	0.1286	0.8574	0.0857
10-Dec-96	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Dec-96	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-96	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Dec-96	14	5.5434	3.3088	0.0859	0.0021	0.0026	0.0043	0.0021	0.0430	0.0430	0.0001	2.5353	0.0043	0.0043	0.0043	0.0129	0.0004	0.0043	0.3051	0.0026	0.000021	0.0129	0.0086	0.1289	0.8594	0.0859
7-Jan-97	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jan-97	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-97	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-97	18	5.8690	4.0865	0.0869	0.0023	0.0130	0.0043	0.0022	0.0435	0.0435	0.0001	3.0258	0.0043	0.0043	0.0043	0.0130	0.0004	0.0043	0.3478	0.0039	0.000022	0.0130	0.0087	0.1304	0.8695	0.0869
4-Feb-97	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-97	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-97	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-97	22	6.8386	4.7490	0.0950	0.0038	0.0030	0.0047	0.0024	0.0475	0.0475	0.0001	3.5285	0.0047	0.0047	0.0047	0.0142	0.0005	0.0047	0.3609	0.0033	0.000024	0.0142	0.0095	0.1425	0.9498	0.0950
4-Mar-97	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-97	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-97	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-97	26	5.0373	3.0759	0.0892	0.0030	0.0022	0.0045	--	0.0446	--	0.0001	2.3627	0.0045	0.0045	0.0045	0.0134	0.0004	--	0.2675	0.0022	0.000022	0.0134	0.0089	0.1337	0.8916	0.0892

DGK 1

Sample Wt. (kg 1

Date	Cycle	Si mg/kg/wk	Ag mg/kg/wk	Na mg/kg/wk	Sr mg/kg/wk	Tl mg/kg/wk	Sn mg/kg/wk	Ti mg/kg/wk	V mg/kg/wk	Zn mg/kg/wk
24-Sep-96	0	0.4119	0.0032	2.2349	0.1255	0.0319	0.0096	0.0032	0.0096	0.0016
1-Oct-96	1	1.4223	0.0047	10.7610	1.3100	0.0468	0.1404	0.0047	0.0140	0.0103
8-Oct-96	2	0.8303	0.0046	1.3916	0.1461	0.0464	0.0928	0.0046	0.0139	0.0023
15-Oct-96	3	0.7525	0.0046	0.9177	0.1211	0.0459	0.1377	0.0046	0.0138	0.0023
22-Oct-96	4	0.6944	0.0046	0.9197	0.1002	0.0460	0.1380	0.0046	0.0138	0.0032
29-Oct-96	5	0.4695	0.0044	0.8775	0.0763	0.0439	0.1316	0.0044	0.0132	0.0022
5-Nov-96	6	0.5448	0.0046	0.9157	0.0778	0.0458	0.1373	0.0046	0.0137	0.0046
12-Nov-96	7	--	--	--	--	--	--	--	--	--
19-Nov-96	8	0.4011	0.0044	0.8815	0.0613	0.0441	0.1322	0.0044	0.0132	0.0022
26-Nov-96	9	--	--	--	--	--	--	--	--	--
3-Dec-96	10	0.3644	0.0043	0.8574	0.0699	0.0429	0.1286	0.0043	0.0129	0.0026
10-Dec-96	11	--	--	--	--	--	--	--	--	--
17-Dec-96	12	--	--	--	--	--	--	--	--	--
24-Dec-96	13	--	--	--	--	--	--	--	--	--
31-Dec-96	14	0.2707	0.0043	0.8594	0.0447	0.0430	0.1289	0.0043	0.0129	0.0021
7-Jan-97	15	--	--	--	--	--	--	--	--	--
14-Jan-97	16	--	--	--	--	--	--	--	--	--
21-Jan-97	17	--	--	--	--	--	--	--	--	--
28-Jan-97	18	0.3304	0.0043	0.8695	0.0526	0.0435	0.1304	0.0043	0.0130	0.0030
4-Feb-97	19	--	--	--	--	--	--	--	--	--
11-Feb-97	20	--	--	--	--	--	--	--	--	--
18-Feb-97	21	--	--	--	--	--	--	--	--	--
25-Feb-97	22	0.3562	0.0047	0.9498	0.0565	0.0475	0.1425	0.0047	0.0142	0.0024
4-Mar-97	23	--	--	--	--	--	--	--	--	--
11-Mar-97	24	--	--	--	--	--	--	--	--	--
18-Mar-97	25	--	--	--	--	--	--	--	--	--
25-Mar-97	26	0.2764	0.0045	0.8916	0.0401	0.0446	0.1337	--	--	0.0022

DGK 2

Sample Wt. (kg 1 Concentrations

Date	Cycle	Days	Volume (L)	pH	Conductivity (uS/cm)	Alkalinity (mg/L)	Sulphate (mg/L)	Al (mg/L)	Sb (mg/L)	As (mg/L)	Ba (mg/L)	Be (mg/L)	Bi (mg/L)	B (mg/L)	Cd (mg/L)	Ca (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Pb (mg/L)	Li (mg/L)	Mg (mg/L)	Mn (mg/L)	Hg (mg/L)	Mo (mg/L)	Ni (mg/L)	P (mg/L)	K (mg/L)	Se (mg/L)	Si (mg/L)	Ag (mg/L)	Na (mg/L)	Sr (mg/L)	Tl (mg/L)	Sn (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
24-Sep-96	0	0	0.348	7.72	362	34.9	118	0.2	0.0754	0.007	0.03	0.005	0.1	0.1	0.0009	41	0.01	0.01	0.01	0.03	0.001	0.02	6.12	0.046	5E-05	0.03	0.02	0.3	6	0.2	1.13	0.01	17	1.62	0.1	0.03	0.01	0.03	0.005
1-Oct-96	1	7	0.462	7.62	262	39.4	74.8	0.2	0.0133	0.0167	0.02	0.005	0.1	0.1	0.0004	30.6	0.01	0.01	0.01	0.03	0.001	0.02	4.51	0.093	5E-05	0.03	0.02	0.3	7	0.2	2.37	0.01	8	0.602	0.1	0.3	0.01	0.03	0.013
8-Oct-96	2	14	0.466	8.01	230	47.5	62.6	0.2	0.199	0.027	0.02	0.005	0.1	0.1	0.0002	25.2	0.01	0.01	0.01	0.03	0.001	0.02	4.07	0.049	5E-05	0.03	0.02	0.3	5	0.2	2.4	0.01	6	1.23	0.1	0.2	0.01	0.03	0.006
15-Oct-96	3	21	0.489	8	165	42.4	37.5	0.2	0.207	0.0188	0.02	0.005	0.1	0.1	0.0002	18.7	0.01	0.01	0.01	0.03	0.001	0.01	2.96	0.037	5E-05	0.03	0.02	0.3	5	0.2	2.17	0.01	3	1.08	0.1	0.3	0.01	0.03	0.006
22-Oct-96	4	28	0.455	8.12	117	36.2	22.1	0.2	0.134	0.0268	0.01	0.005	0.1	0.1	0.0002	15.2	0.01	0.01	0.01	0.03	0.001	0.01	2.23	0.026	5E-05	0.03	0.02	0.3	3	0.2	2.07	0.01	2	0.866	0.1	0.3	0.01	0.03	0.005
29-Oct-96	5	35	0.445			32.7	14	0.2	0.149	0.0256	0.01	0.005	0.1	0.1	0.0002	11.7	0.01	0.01	0.01	0.03	0.001	0.01	1.86	0.021	5E-05	0.03	0.02	0.3	3	0.2	1.68	0.01	2	0.697	0.1	0.3	0.01	0.03	0.005
5-Nov-96	6	42	0.462			36.3	13.8	0.2	0.117	0.0229	0.01	0.005	0.1	0.1	0.0002	12.5	0.01	0.01	0.01	0.03	0.001	0.01	2.02	0.019	5E-05	0.03	0.02	0.3	3	0.2	1.71	0.01	2	0.762	0.1	0.3	0.01	0.03	0.008
12-Nov-96	7	49	0.445			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Nov-96	8	56	0.459	7.56	97	32.1	12.6	0.2	0.134	0.0248	0.01	0.005	0.1	0.1	0.0002	12.4	0.01	0.01	0.01	0.03	0.001	0.01	1.96	0.017	5E-05	0.03	0.02	0.3	3	0.2	1.86	0.01	2	0.768	0.1	0.3	0.01	0.03	0.006
26-Nov-96	9	63				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Dec-96	10	70				27.9	9.6	0.2	0.114	0.0178	0.01	0.005	0.1	0.1	0.0002	9.31	0.01	0.01	0.01	0.03	0.001	0.01	1.49	0.013	5E-05	0.03	0.02	0.3	2	0.2	1.27	0.01	2	0.578	0.1	0.3	0.01	0.03	0.005
10-Dec-96	11	77				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Dec-96	12	84				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-96	13	91	0.433	7.2	60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Dec-96	14	98	0.478	7.5	74	28.2	7.4	0.2	0.0968	0.015	0.01	0.005	0.1	0.1	0.0002	9.7	0.01	0.01	0.01	0.03	0.001	0.01	1.47	0.012	5E-05	0.03	0.02	0.3	2	0.2	1.17	0.01	2	0.586	0.1	0.3	0.01	0.03	0.005
7-Jan-97	15	105	0.446	7.6	65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jan-97	16	112	0.482	7.8	58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-97	17	119	0.51	7.3	78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-97	18	126	0.5	7.82	80.9	30.5	8.8	0.2	0.123	0.0155	0.01	0.005	0.1	0.1	0.0002	10.9	0.01	0.01	0.01	0.03	0.001	0.01	1.54	0.012	5E-05	0.03	0.02	0.3	2	0.2	1.36	0.01	2	0.642	0.1	0.3	0.01	0.03	0.005
4-Feb-97	19	133	0.462	7.5	69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-97	20	140	0.426	7.7	63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-97	21	147	0.434			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-97	22	154	0.391			19.9	5.8	0.2	0.0425	0.0127	0.01	0.005	0.1	0.1	0.0002	7.13	0.01	0.01	0.01	0.03	0.001	0.01	1.03	0.008	5E-05	0.03	0.02	0.3	2	0.2	0.91	0.01	2	0.402	0.1	0.3	0.01	0.03	0.005
4-Mar-97	23	161	0.473			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-97	24	168	0.393	7.6	50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-97	25	175				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-97	26	182				21.1	8.4	0.2	0.0584	0.01	0.01	--	0.1	--	0.0002	8	0.01	0.01	0.01	0.03	0.001	--	1.2	0.01	5E-05	0.03	0.02	0.3	2	0.2	0.95	0.01	2	0.46	0.1	0.3	--	--	0.005

DGK 2

Sample Wt. (kg 1 Loadings

Date	Cycle	Alkalinity mg/kg/wk	Sulphate mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk	Pb mg/kg/wk	Li mg/kg/wk	Mg mg/kg/wk	Mn mg/kg/wk	Hg mg/kg/wk	Mo mg/kg/wk	Ni mg/kg/wk	P mg/kg/wk	K mg/kg/wk	Se mg/kg/wk
24-Sep-96	0	12.0968	40.9004	0.0693	0.0261	0.0024	0.0104	0.0017	0.0347	0.0347	0.0003	14.2112	0.0035	0.0035	0.0035	0.0104	0.0003	0.0069	2.1213	0.0159	0.000017	0.0104	0.0069	0.1040	2.0797	0.0693
1-Oct-96	1	18.1303	34.4199	0.0920	0.0061	0.0077	0.0092	0.0023	0.0460	0.0460	0.0002	14.0809	0.0046	0.0046	0.0046	0.0138	0.0005	0.0092	2.0753	0.0428	0.000023	0.0138	0.0092	0.1380	3.2211	0.0920
8-Oct-96	2	22.0468	29.0554	0.0928	0.0924	0.0125	0.0093	0.0023	0.0464	0.0464	0.0001	11.6964	0.0046	0.0046	0.0046	0.0139	0.0005	0.0093	1.8891	0.0227	0.000023	0.0139	0.0093	0.1392	2.3207	0.0928
15-Oct-96	3	20.6510	18.2644	0.0974	0.1008	0.0092	0.0097	0.0024	0.0487	0.0487	0.0001	9.1079	0.0049	0.0049	0.0049	0.0146	0.0005	0.0049	1.4417	0.0180	0.000024	0.0146	0.0097	0.1461	2.4353	0.0974
22-Oct-96	4	16.4054	10.0154	0.0906	0.0607	0.0121	0.0045	0.0023	0.0453	0.0453	0.0001	6.8884	0.0045	0.0045	0.0045	0.0136	0.0005	0.0045	1.0106	0.0118	0.000023	0.0136	0.0091	0.1360	1.3596	0.0906
29-Oct-96	5	14.4935	6.2052	0.0886	0.0660	0.0113	0.0044	0.0022	0.0443	0.0443	0.0001	5.1858	0.0044	0.0044	0.0044	0.0133	0.0004	0.0044	0.8244	0.0093	0.000022	0.0133	0.0089	0.1330	1.3297	0.0886
5-Nov-96	6	16.7038	6.3502	0.0920	0.0538	0.0105	0.0046	0.0023	0.0460	0.0460	0.0001	5.7520	0.0046	0.0046	0.0046	0.0138	0.0005	0.0046	0.9295	0.0087	0.000023	0.0138	0.0092	0.1380	1.3805	0.0920
12-Nov-96	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Nov-96	8	14.6752	5.7604	0.0914	0.0613	0.0113	0.0046	0.0023	0.0457	0.0457	0.0001	5.6689	0.0046	0.0046	0.0046	0.0137	0.0005	0.0046	0.8961	0.0078	0.000023	0.0137	0.0091	0.1372	1.3715	0.0914
26-Nov-96	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Dec-96	10	12.3382	4.2454	0.0884	0.0504	0.0079	0.0044	0.0022	0.0442	0.0442	0.0001	4.1172	0.0044	0.0044	0.0044	0.0133	0.0004	0.0044	0.6589	0.0057	0.000022	0.0133	0.0088	0.1327	0.8845	0.0884
10-Dec-96	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Dec-96	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-96	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Dec-96	14	13.4259	3.5231	0.0952	0.0461	0.0071	0.0048	0.0024	0.0476	0.0476	0.0001	4.6181	0.0048	0.0048	0.0048	0.0143	0.0005	0.0048	0.6999	0.0057	0.000024	0.0143	0.0095	0.1428	0.9522	0.0952
7-Jan-97	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jan-97	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-97	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-97	18	15.1892	4.3825	0.0996	0.0613	0.0077	0.0050	0.0025	0.0498	0.0498	0.0001	5.4283	0.0050	0.0050	0.0050	0.0149	0.0005	0.0050	0.7669	0.0060	0.000025	0.0149	0.0100	0.1494	0.9960	0.0996
4-Feb-97	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-97	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-97	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-97	22	7.7499	2.2588	0.0779	0.0166	0.0049	0.0039	0.0019	0.0389	0.0389	0.0001	2.7767	0.0039	0.0039	0.0039	0.0117	0.0004	0.0039	0.4011	0.0031	0.000019	0.0117	0.0078	0.1168	0.7789	0.0779
4-Mar-97	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-97	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-97	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-97	26	9.4992	3.7817	0.0900	0.0263	0.0045	0.0045	--	0.0450	--	0.0001	3.6016	0.0045	0.0045	0.0045	0.0135	0.0005	--	0.5402	0.0045	0.000023	0.0135	0.0090	0.1351	0.9004	0.0900

DGK 2

Sample Wt. (kg 1

Date	Cycle	Si mg/kg/wk	Ag mg/kg/wk	Na mg/kg/wk	Sr mg/kg/wk	Tl mg/kg/wk	Sn mg/kg/wk	Ti mg/kg/wk	V mg/kg/wk	Zn mg/kg/wk
24-Sep-96	0	0.3917	0.0035	5.8924	0.5615	0.0347	0.0104	0.0035	0.0104	0.0017
1-Oct-96	1	1.0906	0.0046	3.6813	0.2770	0.0460	0.1380	0.0046	0.0138	0.0060
8-Oct-96	2	1.1139	0.0046	2.7849	0.5709	0.0464	0.0928	0.0046	0.0139	0.0028
15-Oct-96	3	1.0569	0.0049	1.4612	0.5260	0.0487	0.1461	0.0049	0.0146	0.0029
22-Oct-96	4	0.9381	0.0045	0.9064	0.3925	0.0453	0.1360	0.0045	0.0136	0.0023
29-Oct-96	5	0.7446	0.0044	0.8865	0.3089	0.0443	0.1330	0.0044	0.0133	0.0022
5-Nov-96	6	0.7869	0.0046	0.9203	0.3506	0.0460	0.1380	0.0046	0.0138	0.0037
12-Nov-96	7	--	--	--	--	--	--	--	--	--
19-Nov-96	8	0.8503	0.0046	0.9143	0.3511	0.0457	0.1372	0.0046	0.0137	0.0027
26-Nov-96	9	--	--	--	--	--	--	--	--	--
3-Dec-96	10	0.5616	0.0044	0.8845	0.2556	0.0442	0.1327	0.0044	0.0133	0.0022
10-Dec-96	11	--	--	--	--	--	--	--	--	--
17-Dec-96	12	--	--	--	--	--	--	--	--	--
24-Dec-96	13	--	--	--	--	--	--	--	--	--
31-Dec-96	14	0.5570	0.0048	0.9522	0.2790	0.0476	0.1428	0.0048	0.0143	0.0024
7-Jan-97	15	--	--	--	--	--	--	--	--	--
14-Jan-97	16	--	--	--	--	--	--	--	--	--
21-Jan-97	17	--	--	--	--	--	--	--	--	--
28-Jan-97	18	0.6773	0.0050	0.9960	0.3197	0.0498	0.1494	0.0050	0.0149	0.0025
4-Feb-97	19	--	--	--	--	--	--	--	--	--
11-Feb-97	20	--	--	--	--	--	--	--	--	--
18-Feb-97	21	--	--	--	--	--	--	--	--	--
25-Feb-97	22	0.3544	0.0039	0.7789	0.1566	0.0389	0.1168	0.0039	0.0117	0.0019
4-Mar-97	23	--	--	--	--	--	--	--	--	--
11-Mar-97	24	--	--	--	--	--	--	--	--	--
18-Mar-97	25	--	--	--	--	--	--	--	--	--
25-Mar-97	26	0.4277	0.0045	0.9004	0.2071	0.0450	0.1351	--	--	0.0023

DGK 3

Sample Wt. (kg 1 Concentrations

Date	Cycle	Days	Volume (L)	pH	Conductivity (uS/cm)	Alkalinity (mg/L)	Sulphate (mg/L)	Al (mg/L)	Sb (mg/L)	As (mg/L)	Ba (mg/L)	Be (mg/L)	Bi (mg/L)	B (mg/L)	Cd (mg/L)	Ca (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Pb (mg/L)	Li (mg/L)	Mg (mg/L)	Mn (mg/L)	Hg (mg/L)	Mo (mg/L)	Ni (mg/L)	P (mg/L)	K (mg/L)	Se (mg/L)	Si (mg/L)	Ag (mg/L)	Na (mg/L)	Sr (mg/L)	Tl (mg/L)	Sn (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
24-Sep-96	0	0	0.37	7.91	170	41.4	33	0.2	0.0066	0.0376	0.02	0.005	0.1	0.1	0.0015	20.3	0.01	0.01	0.01	0.03	0.001	0.01	1.8	0.018	5E-05	0.03	0.02	0.3	4	0.2	1.7	0.01	8	0.284	0.1	0.03	0.01	0.03	0.005
1-Oct-96	1	7	0.47	7.68	240	37.6	62.4	0.2	0.0133	0.0735	0.02	0.005	0.1	0.1	0.0016	29.6	0.01	0.01	0.01	0.03	0.001	0.01	2.97	0.04	5E-05	0.03	0.02	0.3	4	0.2	2.87	0.01	9	0.426	0.1	0.3	0.01	0.03	0.007
8-Oct-96	2	14	0.467	8.02	110	28.7	19.7	0.2	0.0113	0.0563	0.01	0.005	0.1	0.1	0.0002	12.7	0.01	0.01	0.01	0.03	0.001	0.01	1.21	0.014	5E-05	0.03	0.02	0.3	3	0.2	1.74	0.01	3	0.168	0.1	0.2	0.01	0.03	0.005
15-Oct-96	3	21	0.464	7.79	90.9	22.7	13.9	0.2	0.007	0.0392	0.01	0.005	0.1	0.1	0.0002	10	0.01	0.01	0.01	0.03	0.001	0.01	0.97	0.01	5E-05	0.03	0.02	0.3	3	0.2	1.44	0.01	2	0.144	0.1	0.3	0.01	0.03	0.005
22-Oct-96	4	28	0.457	8.02	75	25.7	11.1	0.2	0.0081	0.0654	0.01	0.005	0.1	0.1	0.0002	10.1	0.01	0.01	0.01	0.03	0.001	0.01	0.95	0.009	5E-05	0.03	0.02	0.3	2	0.2	1.76	0.01	2	0.141	0.1	0.3	0.01	0.03	0.005
29-Oct-96	5	35	0.412			23	8.4	0.2	0.0066	0.0555	0.01	0.005	0.1	0.1	0.0002	8.42	0.01	0.01	0.01	0.03	0.001	0.01	0.79	0.007	5E-05	0.03	0.02	0.3	2	0.2	1.54	0.01	2	0.118	0.1	0.3	0.01	0.03	0.005
5-Nov-96	6	42	0.455			20.6	12.9	0.2	0.0039	0.0389	0.01	0.005	0.1	0.1	0.0002	9.67	0.01	0.01	0.01	0.03	0.001	0.01	0.85	0.008	5E-05	0.03	0.02	0.3	2	0.2	1.18	0.01	2	0.129	0.1	0.3	0.01	0.03	0.005
12-Nov-96	7	49	0.46			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Nov-96	8	56	0.446	7.41	55	21.3	7.5	0.2	0.0043	0.0343	0.01	0.005	0.1	0.1	0.0002	7.17	0.01	0.01	0.01	0.03	0.001	0.01	0.62	0.005	5E-05	0.03	0.02	0.3	2	0.2	0.98	0.01	2	0.097	0.1	0.3	0.01	0.03	0.005
26-Nov-96	9	63				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Dec-96	10	70				18.5	9.4	0.2	0.0044	0.0389	0.01	0.005	0.1	0.1	0.0002	7.81	0.01	0.01	0.01	0.03	0.001	0.01	0.7	0.005	5E-05	0.03	0.02	0.3	2	0.2	1.17	0.01	2	0.103	0.1	0.3	0.01	0.03	0.005
10-Dec-96	11	77				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Dec-96	12	84				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-96	13	91	0.435	7.9	47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Dec-96	14	98	0.451	7.38	49	16.2	6	0.2	0.0037	0.0317	0.01	0.005	0.1	0.1	0.0002	6.58	0.01	0.01	0.01	0.03	0.001	0.01	0.57	0.005	5E-05	0.03	0.02	0.3	2	0.2	0.87	0.01	2	0.085	0.1	0.3	0.01	0.03	0.005
7-Jan-97	15	105	0.461	7.5	53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jan-97	16	112	0.469	7.6	48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-97	17	119	0.484	7.3	52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-97	18	126	0.478	7.68	53.7	18.5	5.9	0.2	0.0061	0.0345	0.01	0.005	0.1	0.1	0.0002	7.17	0.01	0.01	0.01	0.03	0.001	0.01	0.61	0.005	5E-05	0.03	0.02	0.3	2	0.2	1.11	0.01	2	0.093	0.1	0.3	0.01	0.03	0.005
4-Feb-97	19	133	0.476	7.4	54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-97	20	140	0.473	7.6	51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-97	21	147	0.462			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-97	22	154	0.47			16.4	5.2	0.2	0.0043	0.0279	0.01	0.005	0.1	0.1	0.0002	6.17	0.01	0.01	0.01	0.03	0.001	0.01	0.5	0.005	5E-05	0.03	0.02	0.3	2	0.2	0.89	0.01	2	0.077	0.1	0.3	0.01	0.03	0.005
4-Mar-97	23	161	0.435			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-97	24	168	0.478	7.4	42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-97	25	175				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-97	26	182				13.9	6.9	0.2	0.0029	0.025	0.01	--	0.1	--	0.0002	6.1	0.01	0.01	0.01	0.03	0.001	--	0.5	0.005	5E-05	0.03	0.02	0.3	2	0.2	0.83	0.01	2	0.6	0.1	0.3	--	--	0.005

DGK 3

Sample Wt. (kg 1 Loadings

Date	Cycle	Alkalinity mg/kg/wk	Sulphate mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk	Pb mg/kg/wk	Li mg/kg/wk	Mg mg/kg/wk	Mn mg/kg/wk	Hg mg/kg/wk	Mo mg/kg/wk	Ni mg/kg/wk	P mg/kg/wk	K mg/kg/wk	Se mg/kg/wk
24-Sep-96	0	15.3180	12.2100	2.9267	0.0024	0.0139	0.0074	0.0019	0.0370	0.0370	0.0006	7.5110	0.0037	0.0037	0.0037	0.0111	0.0004	0.0037	0.6660	0.0067	0.000019	0.0111	0.0074	0.1110	1.4800	0.0740
1-Oct-96	1	17.6720	29.3280	0.0940	0.0063	0.0345	0.0094	0.0024	0.0470	0.0470	0.0008	13.9120	0.0047	0.0047	0.0047	0.0141	0.0005	0.0047	1.3959	0.0188	0.000024	0.0141	0.0094	0.1410	1.8800	0.0940
8-Oct-96	2	13.4029	9.1999	0.0934	0.0053	0.0263	0.0047	0.0023	0.0467	0.0467	0.0001	5.9309	0.0047	0.0047	0.0047	0.0140	0.0005	0.0047	0.5651	0.0065	0.000023	0.0140	0.0093	0.1401	1.4010	0.0934
15-Oct-96	3	10.5328	6.4496	0.0928	0.0032	0.0182	0.0046	0.0023	0.0464	0.0464	0.0001	4.6400	0.0046	0.0046	0.0046	0.0139	0.0005	0.0046	0.4501	0.0046	0.000023	0.0139	0.0093	0.1392	1.3920	0.0928
22-Oct-96	4	11.7449	5.0727	0.0914	0.0037	0.0299	0.0046	0.0023	0.0457	0.0457	0.0001	4.6157	0.0046	0.0046	0.0046	0.0137	0.0005	0.0046	0.4342	0.0041	0.000023	0.0137	0.0091	0.1371	0.9140	0.0914
29-Oct-96	5	9.4760	3.4608	0.0824	0.0027	0.0229	0.0041	0.0021	0.0412	0.0412	0.0001	3.4690	0.0041	0.0041	0.0041	0.0124	0.0004	0.0041	0.3255	0.0029	0.000021	0.0124	0.0082	0.1236	0.8240	0.0824
5-Nov-96	6	9.3730	5.8695	0.0910	0.0018	0.0177	0.0046	0.0023	0.0455	0.0455	0.0001	4.3999	0.0046	0.0046	0.0046	0.0137	0.0005	0.0046	0.3868	0.0036	0.000023	0.0137	0.0091	0.1365	0.9100	0.0910
12-Nov-96	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Nov-96	8	9.4998	3.3450	0.0892	0.0019	0.0153	0.0045	0.0022	0.0446	0.0446	0.0001	3.1978	0.0045	0.0045	0.0045	0.0134	0.0004	0.0045	0.2765	0.0022	0.000022	0.0134	0.0089	0.1338	0.8920	0.0892
26-Nov-96	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Dec-96	10	7.8625	3.9950	0.0850	0.0019	0.0165	0.0043	0.0021	0.0425	0.0425	0.0001	3.3193	0.0043	0.0043	0.0043	0.0128	0.0004	0.0043	0.2975	0.0021	0.000021	0.0128	0.0085	0.1275	0.8500	0.0850
10-Dec-96	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Dec-96	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-96	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Dec-96	14	7.3062	2.7060	0.0902	0.0017	0.0143	0.0045	0.0023	0.0451	0.0451	0.0001	2.9676	0.0045	0.0045	0.0045	0.0135	0.0005	0.0045	0.2571	0.0023	0.000023	0.0135	0.0090	0.1353	0.9020	0.0902
7-Jan-97	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jan-97	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-97	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-97	18	8.8430	2.8202	0.0956	0.0029	0.0165	0.0048	0.0024	0.0478	0.0478	0.0001	3.4273	0.0048	0.0048	0.0048	0.0143	0.0005	0.0048	0.2916	0.0024	0.000024	0.0143	0.0096	0.1434	0.9560	0.0956
4-Feb-97	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-97	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-97	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-97	22	7.7080	2.4440	0.0940	0.0020	0.0131	0.0047	0.0024	0.0470	0.0470	0.0001	2.8999	0.0047	0.0047	0.0047	0.0141	0.0005	0.0047	0.2350	0.0024	0.000024	0.0141	0.0094	0.1410	0.9400	0.0940
4-Mar-97	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-97	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-97	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-97	26	6.2272	3.0912	0.0896	0.0013	0.0112	0.0045	--	0.0448	--	0.0001	2.7328	0.0045	0.0045	0.0045	0.0134	0.0004	--	0.2240	0.0022	0.000022	0.0134	0.0090	0.1344	0.8960	0.0896

DGK 3

Sample Wt. (kg 1

Date	Cycle	Si mg/kg/wk	Ag mg/kg/wk	Na mg/kg/wk	Sr mg/kg/wk	Tl mg/kg/wk	Sn mg/kg/wk	Ti mg/kg/wk	V mg/kg/wk	Zn mg/kg/wk
24-Sep-96	0	0.6290	0.0037	2.9600	0.1051	0.0370	0.0111	0.0037	0.0111	0.0019
1-Oct-96	1	1.3489	0.0047	4.2300	0.2002	0.0470	0.1410	0.0047	0.0141	0.0033
8-Oct-96	2	0.8126	0.0047	1.4010	0.0785	0.0467	0.0934	0.0047	0.0140	0.0023
15-Oct-96	3	0.6682	0.0046	0.9280	0.0668	0.0464	0.1392	0.0046	0.0139	0.0023
22-Oct-96	4	0.8043	0.0046	0.9140	0.0644	0.0457	0.1371	0.0046	0.0137	0.0023
29-Oct-96	5	0.6345	0.0041	0.8240	0.0486	0.0412	0.1236	0.0041	0.0124	0.0021
5-Nov-96	6	0.5369	0.0046	0.9100	0.0587	0.0455	0.1365	0.0046	0.0137	0.0023
12-Nov-96	7	--	--	--	--	--	--	--	--	--
19-Nov-96	8	0.4371	0.0045	0.8920	0.0433	0.0446	0.1338	0.0045	0.0134	0.0022
26-Nov-96	9	--	--	--	--	--	--	--	--	--
3-Dec-96	10	0.4973	0.0043	0.8500	0.0438	0.0425	0.1275	0.0043	0.0128	0.0021
10-Dec-96	11	--	--	--	--	--	--	--	--	--
17-Dec-96	12	--	--	--	--	--	--	--	--	--
24-Dec-96	13	--	--	--	--	--	--	--	--	--
31-Dec-96	14	0.3924	0.0045	0.9020	0.0383	0.0451	0.1353	0.0045	0.0135	0.0023
7-Jan-97	15	--	--	--	--	--	--	--	--	--
14-Jan-97	16	--	--	--	--	--	--	--	--	--
21-Jan-97	17	--	--	--	--	--	--	--	--	--
28-Jan-97	18	0.5306	0.0048	0.9560	0.0445	0.0478	0.1434	0.0048	0.0143	0.0024
4-Feb-97	19	--	--	--	--	--	--	--	--	--
11-Feb-97	20	--	--	--	--	--	--	--	--	--
18-Feb-97	21	--	--	--	--	--	--	--	--	--
25-Feb-97	22	0.4183	0.0047	0.9400	0.0362	0.0470	0.1410	0.0047	0.0141	0.0024
4-Mar-97	23	--	--	--	--	--	--	--	--	--
11-Mar-97	24	--	--	--	--	--	--	--	--	--
18-Mar-97	25	--	--	--	--	--	--	--	--	--
25-Mar-97	26	0.3718	0.0045	0.8960	0.2688	0.0448	0.1344	--	--	0.0022

DGK 4

Sample Wt. (kg 1 Concentrations

Date	Cycle	Days	Volume (L)	pH	Conductivity (uS/cm)	Alkalinity (mg/L)	Sulphate (mg/L)	Al (mg/L)	Sb (mg/L)	As (mg/L)	Ba (mg/L)	Be (mg/L)	Bi (mg/L)	B (mg/L)	Cd (mg/L)	Ca (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Pb (mg/L)	Li (mg/L)	Mg (mg/L)	Mn (mg/L)	Hg (mg/L)	Mo (mg/L)	Ni (mg/L)	P (mg/L)	K (mg/L)	Se (mg/L)	Si (mg/L)	Ag (mg/L)	Na (mg/L)	Sr (mg/L)	Tl (mg/L)	Sn (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
24-Sep-96	0	0	0.5	7.84	306	43.3	85.2	0.2	0.125	0.0532	0.03	0.005	0.1	0.1	0.0024	21.3	0.01	0.01	0.01	0.03	0.001	0.02	3.81	0.021	5E-05	0.03	0.02	0.3	6	0.2	0.94	0.01	34	1.22	0.1	0.03	0.01	0.03	0.005
1-Oct-96	1	7	0.466	8	525	69.6	170	0.2	0.31	0.131	0.04	0.005	0.1	0.1	0.0008	35.1	0.01	0.01	0.01	0.03	0.001	0.03	7.41	0.034	5E-05	0.03	0.02	0.3	7	0.2	2.4	0.01	59	2.12	0.1	0.3	0.01	0.03	0.006
8-Oct-96	2	14	0.465	8.28	190	57.4	38.5	0.2	0.27	0.0825	0.02	0.005	0.1	0.1	0.0002	12.4	0.01	0.01	0.01	0.03	0.001	0.01	2.7	0.013	5E-05	0.03	0.02	0.3	4	0.2	1.58	0.01	17	0.714	0.1	0.2	0.01	0.03	0.006
15-Oct-96	3	21	0.465	8.12	137	43.6	24.2	0.2	0.273	0.0451	0.02	0.005	0.1	0.1	0.0002	11.5	0.01	0.01	0.01	0.03	0.001	0.01	2.56	0.012	5E-05	0.03	0.02	0.3	3	0.2	1.16	0.01	8	0.684	0.1	0.3	0.01	0.03	0.005
22-Oct-96	4	28	0.451	8.4	104	25.3	16.1	0.2	0.104	0.0338	0.01	0.005	0.1	0.1	0.0002	8.54	0.01	0.01	0.01	0.03	0.001	0.01	1.86	0.008	5E-05	0.03	0.02	0.3	2	0.2	0.72	0.01	4	0.504	0.1	0.3	0.01	0.03	0.005
29-Oct-96	5	35	0.411			20.2	11.1	0.2	0.0698	0.0154	0.01	0.005	0.1	0.1	0.0002	7.69	0.01	0.01	0.01	0.03	0.001	0.01	1.54	0.025	5E-05	0.03	0.02	0.3	2	0.2	0.58	0.01	3	0.394	0.1	0.3	0.01	0.03	0.005
5-Nov-96	6	42	0.441			23.8	16.6	0.2	0.0818	0.0202	0.01	0.005	0.1	0.1	0.0002	8.99	0.01	0.01	0.01	0.03	0.001	0.01	2.12	0.01	5E-05	0.03	0.02	0.3	2	0.2	0.67	0.01	3	0.538	0.1	0.3	0.01	0.03	0.006
12-Nov-96	7	49	0.427			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Nov-96	8	56	0.445	7.47	84	23.1	14.5	0.2	0.101	0.021	0.01	0.005	0.1	0.1	0.0002	8.77	0.01	0.01	0.01	0.03	0.001	0.01	2.16	0.01	5E-05	0.03	0.02	0.3	2	0.2	0.65	0.01	2	0.521	0.1	0.3	0.01	0.03	0.005
26-Nov-96	9	63				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Dec-96	10	70				15.2	15.6	0.2	0.0751	0.0104	0.01	0.005	0.1	0.1	0.0002	6.98	0.01	0.01	0.01	0.03	0.001	0.01	1.71	0.008	5E-05	0.03	0.02	0.3	2	0.2	0.35	0.01	2	0.4	0.1	0.3	0.01	0.03	0.005
10-Dec-96	11	77				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Dec-96	12	84				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-96	13	91	0.423	7.9	56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Dec-96	14	98	0.411	7.39	57	15.1	9.8	0.2	0.0563	0.0118	0.01	0.005	0.1	0.1	0.0002	6.29	0.01	0.01	0.01	0.03	0.001	0.01	1.59	0.009	5E-05	0.03	0.02	0.3	2	0.2	0.4	0.01	2	0.357	0.1	0.3	0.01	0.03	0.005
7-Jan-97	15	105	0.434	7.5	57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jan-97	16	112	0.404	7.9	43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-97	17	119	0.467	7.3	64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-97	18	126	0.456	7.51	69.5	17.1	14.3	0.2	0.0851	0.0101	0.01	0.005	0.1	0.1	0.0002	7.5	0.01	0.01	0.01	0.03	0.001	0.01	2.11	0.009	5E-05	0.03	0.02	0.3	2	0.2	0.39	0.01	2	0.431	0.1	0.3	0.01	0.03	0.005
4-Feb-97	19	133	0.463	7.5	81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-97	20	140	0.458	7.6	74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-97	21	147	0.443			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-97	22	154	0.493			24.3	11.2	0.2	0.0855	0.0077	0.01	0.005	0.1	0.1	0.0002	8.35	0.01	0.01	0.01	0.03	0.001	0.01	2.48	0.008	5E-05	0.03	0.02	0.3	2	0.2	0.38	0.01	2	0.447	0.1	0.3	0.01	0.03	0.005
4-Mar-97	23	161	0.434			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-97	24	168	0.441	7.5	52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-97	25	175				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-97	26	182				17.3	10.3	0.2	0.0582	0.006	0.01	--	0.1	--	0.0002	6.6	0.01	0.01	0.01	0.03	0.001	--	2	0.01	5E-05	0.03	0.02	0.3	2	0.2	0.31	0.01	2	0.36	0.1	0.3	--	--	0.005

DGK 4

Sample Wt. (kg 1 Loadings

Date	Cycle	Alkalinity mg/kg/wk	Sulphate mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk	Pb mg/kg/wk	Li mg/kg/wk	Mg mg/kg/wk	Mn mg/kg/wk	Hg mg/kg/wk	Mo mg/kg/wk	Ni mg/kg/wk	P mg/kg/wk	K mg/kg/wk	Se mg/kg/wk
24-Sep-96	0	21.5852	42.4726	0.0997	0.0623	0.0265	0.0150	0.0025	0.0499	0.0499	0.0012	10.6181	0.0050	0.0050	0.0050	0.0150	0.0005	0.0100	1.8993	0.0105	0.000025	0.0150	0.0100	0.1496	2.9910	0.0997
1-Oct-96	1	32.3366	78.9831	0.0929	0.1440	0.0609	0.0186	0.0023	0.0465	0.0465	0.0004	16.3077	0.0046	0.0046	0.0046	0.0139	0.0005	0.0139	3.4427	0.0158	0.000023	0.0139	0.0093	0.1394	3.2522	0.0929
8-Oct-96	2	26.6112	17.8490	0.0927	0.1252	0.0382	0.0093	0.0023	0.0464	0.0464	0.0001	5.7488	0.0046	0.0046	0.0046	0.0139	0.0005	0.0046	1.2517	0.0060	0.000023	0.0139	0.0093	0.1391	1.8544	0.0927
15-Oct-96	3	20.2134	11.2193	0.0927	0.1266	0.0209	0.0093	0.0023	0.0464	0.0464	0.0001	5.3315	0.0046	0.0046	0.0046	0.0139	0.0005	0.0046	1.1868	0.0056	0.000023	0.0139	0.0093	0.1391	1.3908	0.0927
22-Oct-96	4	11.3762	7.2394	0.0899	0.0468	0.0152	0.0045	0.0022	0.0450	0.0450	0.0001	3.8400	0.0045	0.0045	0.0045	0.0135	0.0004	0.0045	0.8364	0.0036	0.000022	0.0135	0.0090	0.1349	0.8993	0.0899
29-Oct-96	5	8.2774	4.5485	0.0820	0.0286	0.0063	0.0041	0.0020	0.0410	0.0410	0.0001	3.1511	0.0041	0.0041	0.0041	0.0123	0.0004	0.0041	0.6310	0.0102	0.000020	0.0123	0.0082	0.1229	0.8195	0.0820
5-Nov-96	6	10.4644	7.2987	0.0879	0.0360	0.0089	0.0044	0.0022	0.0440	0.0440	0.0001	3.9527	0.0044	0.0044	0.0044	0.0132	0.0004	0.0044	0.9321	0.0044	0.000022	0.0132	0.0088	0.1319	0.8794	0.0879
12-Nov-96	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Nov-96	8	10.2488	6.4332	0.0887	0.0448	0.0093	0.0044	0.0022	0.0444	0.0444	0.0001	3.8910	0.0044	0.0044	0.0044	0.0133	0.0004	0.0044	0.9583	0.0044	0.000022	0.0133	0.0089	0.1331	0.8873	0.0887
26-Nov-96	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Dec-96	10	6.8195	6.9990	0.0897	0.0337	0.0047	0.0045	0.0022	0.0449	0.0449	0.0001	3.1316	0.0045	0.0045	0.0045	0.0135	0.0004	0.0045	0.7672	0.0036	0.000022	0.0135	0.0090	0.1346	0.8973	0.0897
10-Dec-96	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Dec-96	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-96	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Dec-96	14	6.1875	4.0158	0.0820	0.0231	0.0048	0.0041	0.0020	0.0410	0.0410	0.0001	2.5775	0.0041	0.0041	0.0041	0.0123	0.0004	0.0041	0.6515	0.0037	0.000020	0.0123	0.0082	0.1229	0.8195	0.0820
7-Jan-97	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jan-97	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-97	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-97	18	7.7743	6.5013	0.0909	0.0387	0.0046	0.0045	0.0023	0.0455	0.0455	0.0001	3.4098	0.0045	0.0045	0.0045	0.0136	0.0005	0.0045	0.9593	0.0041	0.000023	0.0136	0.0091	0.1364	0.9093	0.0909
4-Feb-97	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-97	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-97	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-97	22	11.9441	5.5051	0.0983	0.0420	0.0038	0.0049	0.0025	0.0492	0.0492	0.0001	4.1042	0.0049	0.0049	0.0049	0.0147	0.0005	0.0049	1.2190	0.0039	0.000025	0.0147	0.0098	0.1475	0.9831	0.0983
4-Mar-97	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-97	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-97	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-97	26	7.8480	4.6725	0.0907	0.0264	0.0027	0.0045	--	0.0454	--	0.0001	2.9940	0.0045	0.0045	0.0045	0.0136	0.0005	--	0.9073	0.0045	0.000023	0.0136	0.0091	0.1361	0.9073	0.0907

DGK 4

Sample Wt. (kg 1

Date	Cycle	Si mg/kg/wk	Ag mg/kg/wk	Na mg/kg/wk	Sr mg/kg/wk	Tl mg/kg/wk	Sn mg/kg/wk	Ti mg/kg/wk	V mg/kg/wk	Zn mg/kg/wk
24-Sep-96	0	0.4686	0.0050	16.9492	0.6082	0.0499	0.0150	0.0050	0.0150	0.0025
1-Oct-96	1	1.1151	0.0046	27.4118	0.9850	0.0465	0.1394	0.0046	0.0139	0.0028
8-Oct-96	2	0.7325	0.0046	7.8814	0.3310	0.0464	0.0927	0.0046	0.0139	0.0028
15-Oct-96	3	0.5378	0.0046	3.7089	0.3171	0.0464	0.1391	0.0046	0.0139	0.0023
22-Oct-96	4	0.3237	0.0045	1.7986	0.2266	0.0450	0.1349	0.0045	0.0135	0.0022
29-Oct-96	5	0.2377	0.0041	1.2293	0.1614	0.0410	0.1229	0.0041	0.0123	0.0020
5-Nov-96	6	0.2946	0.0044	1.3190	0.2365	0.0440	0.1319	0.0044	0.0132	0.0026
12-Nov-96	7	--	--	--	--	--	--	--	--	--
19-Nov-96	8	0.2884	0.0044	0.8873	0.2312	0.0444	0.1331	0.0044	0.0133	0.0022
26-Nov-96	9	--	--	--	--	--	--	--	--	--
3-Dec-96	10	0.1570	0.0045	0.8973	0.1795	0.0449	0.1346	0.0045	0.0135	0.0022
10-Dec-96	11	--	--	--	--	--	--	--	--	--
17-Dec-96	12	--	--	--	--	--	--	--	--	--
24-Dec-96	13	--	--	--	--	--	--	--	--	--
31-Dec-96	14	0.1639	0.0041	0.8195	0.1463	0.0410	0.1229	0.0041	0.0123	0.0020
7-Jan-97	15	--	--	--	--	--	--	--	--	--
14-Jan-97	16	--	--	--	--	--	--	--	--	--
21-Jan-97	17	--	--	--	--	--	--	--	--	--
28-Jan-97	18	0.1773	0.0045	0.9093	0.1959	0.0455	0.1364	0.0045	0.0136	0.0023
4-Feb-97	19	--	--	--	--	--	--	--	--	--
11-Feb-97	20	--	--	--	--	--	--	--	--	--
18-Feb-97	21	--	--	--	--	--	--	--	--	--
25-Feb-97	22	0.1868	0.0049	0.9831	0.2197	0.0492	0.1475	0.0049	0.0147	0.0025
4-Mar-97	23	--	--	--	--	--	--	--	--	--
11-Mar-97	24	--	--	--	--	--	--	--	--	--
18-Mar-97	25	--	--	--	--	--	--	--	--	--
25-Mar-97	26	0.1406	0.0045	0.9073	0.1633	0.0454	0.1361	--	--	0.0023

DGK 5

Sample Wt. (kg 1 Concentrations

Date	Cycle	Days	Volume (L)	pH	Conductivity (uS/cm)	Alkalinity (mg/L)	Sulphate (mg/L)	Al (mg/L)	Sb (mg/L)	As (mg/L)	Ba (mg/L)	Be (mg/L)	Bi (mg/L)	B (mg/L)	Cd (mg/L)	Ca (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Pb (mg/L)	Li (mg/L)	Mg (mg/L)	Mn (mg/L)	Hg (mg/L)	Mo (mg/L)	Ni (mg/L)	P (mg/L)	K (mg/L)	Se (mg/L)	Si (mg/L)	Ag (mg/L)	Na (mg/L)	Sr (mg/L)	Tl (mg/L)	Sn (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
24-Sep-96	0	0	0.337	7.98	302	44.5	84.9	0.2	0.126	0.0562	0.03	0.005	0.1	0.1	0.0018	20.4	0.01	0.01	0.01	0.03	0.001	0.02	3.64	0.021	5E-05	0.03	0.02	0.3	6	0.2	0.92	0.01	35	1.15	0.1	0.03	0.01	0.03	0.005
1-Oct-96	1	7	0.463	8	865	98.9	315	0.2	0.527	0.0819	0.05	0.005	0.1	0.1	0.0003	61.4	0.01	0.01	0.01	0.03	0.001	0.04	13.4	0.078	5E-05	0.04	0.02	0.3	12	0.2	3.15	0.01	98	3.8	0.1	0.3	0.01	0.03	0.018
8-Oct-96	2	14	0.472	8.19	194	59.8	39.3	0.2	0.275	0.0788	0.02	0.005	0.1	0.1	0.0002	13.4	0.01	0.01	0.01	0.03	0.001	0.01	2.9	0.013	5E-05	0.03	0.02	0.3	4	0.2	1.64	0.01	17	0.774	0.1	0.03	0.01	0.03	0.008
15-Oct-96	3	21	0.459	8.08	148	45.4	25.6	0.2	0.228	0.0519	0.02	0.005	0.1	0.1	0.0002	12.2	0.01	0.01	0.01	0.03	0.001	0.01	2.79	0.013	5E-05	0.03	0.02	0.3	4	0.2	1.28	0.01	9	0.74	0.1	0.3	0.01	0.03	0.006
22-Oct-96	4	28	0.448	8.2	255	30.3	18.5	0.2	0.175	0.0485	0.02	0.005	0.1	0.1	0.0002	10.3	0.01	0.01	0.01	0.03	0.001	0.01	2.37	0.011	5E-05	0.03	0.02	0.3	3	0.2	1	0.01	5	0.628	0.1	0.3	0.01	0.03	0.005
29-Oct-96	5	35	0.431			25.7	12.7	0.2	0.0989	0.0296	0.01	0.005	0.1	0.1	0.0002	9.08	0.01	0.01	0.01	0.03	0.001	0.01	2.06	0.02	5E-05	0.03	0.02	0.3	3	0.2	0.82	0.01	3	0.509	0.1	0.3	0.01	0.03	0.005
5-Nov-96	6	42	0.436			24.6	13.2	0.2	0.0834	0.0304	0.01	0.005	0.1	0.1	0.0002	8.08	0.01	0.01	0.01	0.03	0.001	0.01	2.01	0.008	5E-05	0.03	0.02	0.3	2	0.2	0.64	0.01	2	0.501	0.1	0.3	0.01	0.03	0.005
12-Nov-96	7	49	0.465			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Nov-96	8	56	0.459	7.51	82	22.7	13.4	0.2	0.106	0.0173	0.01	0.005	0.1	0.1	0.0002	9.05	0.01	0.01	0.01	0.03	0.001	0.01	2.2	0.012	5E-05	0.03	0.02	0.3	2	0.2	0.66	0.01	2	0.531	0.1	0.3	0.01	0.03	0.005
26-Nov-96	9	63				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Dec-96	10	70				23.9	13.8	0.2	0.112	0.0211	0.01	0.005	0.1	0.1	0.0002	8.47	0.01	0.01	0.01	0.03	0.001	0.01	2.22	0.008	5E-05	0.03	0.02	0.3	2	0.2	0.57	0.01	2	0.505	0.1	0.3	0.01	0.03	0.005
10-Dec-96	11	77				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Dec-96	12	84				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-96	13	91	0.471	7.7	63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Dec-96	14	98	0.487	7.67	66	22.1	8.3	0.2	0.0833	0.0087	0.01	0.005	0.1	0.1	0.0002	7.77	0.01	0.01	0.01	0.03	0.001	0.01	1.94	0.013	5E-05	0.03	0.02	0.3	2	0.2	0.39	0.01	2	0.417	0.1	0.3	0.01	0.03	0.006
7-Jan-97	15	105	0.484	7.5	62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jan-97	16	112	0.475	7.7	67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-97	17	119	0.481	7.5	67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-97	18	126	0.451	7.66	65.5	20	9.8	0.2	0.0742	0.0108	0.01	0.005	0.1	0.1	0.0002	7.35	0.01	0.01	0.01	0.03	0.001	0.01	2.02	0.008	5E-05	0.03	0.02	0.3	2	0.2	0.4	0.01	2	0.422	0.1	0.3	0.01	0.03	0.005
4-Feb-97	19	133	0.451	7.6	70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-97	20	140	0.472	7.6	74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-97	21	147	0.45			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-97	22	154	0.455			21.6	13.1	0.2	0.0875	0.0075	0.01	0.005	0.1	0.1	0.0002	8.27	0.01	0.01	0.01	0.03	0.001	0.01	2.41	0.01	5E-05	0.03	0.02	0.3	2	0.2	0.44	0.01	2	0.448	0.1	0.3	0.01	0.03	0.005
4-Mar-97	23	161	0.445			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-97	24	168	0.45	7.6	52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-97	25	175				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-97	26	182				19.7	10.2	0.2	0.0593	0.005	0.01	--	0.1	0.1	0.0002	7.2	0.01	0.01	0.01	0.03	0.001	--	2.4	0.01	5E-05	0.03	0.02	0.3	2	0.2	0.32	0.01	2	0.39	0.1	0.3	--	--	0.005

DGK 5

Sample Wt. (kg 1 Loadings

Date	Cycle	Alkalinity mg/kg/wk	Sulphate mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk	Pb mg/kg/wk	Li mg/kg/wk	Mg mg/kg/wk	Mn mg/kg/wk	Hg mg/kg/wk	Mo mg/kg/wk	Ni mg/kg/wk	P mg/kg/wk	K mg/kg/wk	Se mg/kg/wk
24-Sep-96	0	14.9965	28.6113	0.0674	0.0425	0.0189	0.0101	0.0017	0.0337	0.0337	0.0006	6.8748	0.0034	0.0034	0.0034	0.0101	0.0003	0.0067	1.2267	0.0071	0.000017	0.0101	0.0067	0.1011	2.0220	0.0674
1-Oct-96	1	45.7907	145.8450	0.0926	0.2440	0.0379	0.0232	0.0023	0.0463	0.0463	0.0001	28.4282	0.0046	0.0046	0.0046	0.0139	0.0005	0.0185	6.2042	0.0361	0.000023	0.0185	0.0093	0.1389	5.5560	0.0926
8-Oct-96	2	28.2256	18.5496	0.0944	0.1298	0.0372	0.0094	0.0024	0.0472	0.0472	0.0001	6.3248	0.0047	0.0047	0.0047	0.0142	0.0005	0.0047	1.3688	0.0061	0.000024	0.0142	0.0094	0.1416	1.8880	0.0944
15-Oct-96	3	20.8386	11.7504	0.0918	0.1047	0.0238	0.0092	0.0023	0.0459	0.0459	0.0001	5.5998	0.0046	0.0046	0.0046	0.0138	0.0005	0.0046	1.2806	0.0060	0.000023	0.0138	0.0092	0.1377	1.8360	0.0918
22-Oct-96	4	13.5744	8.2880	0.0896	0.0784	0.0217	0.0090	0.0022	0.0448	0.0448	0.0001	4.6144	0.0045	0.0045	0.0045	0.0134	0.0004	0.0045	1.0618	0.0049	0.000022	0.0134	0.0090	0.1344	1.3440	0.0896
29-Oct-96	5	11.0767	5.4737	0.0862	0.0426	0.0128	0.0043	0.0022	0.0431	0.0431	0.0001	3.9135	0.0043	0.0043	0.0043	0.0129	0.0004	0.0043	0.8879	0.0086	0.000022	0.0129	0.0086	0.1293	1.2930	0.0862
5-Nov-96	6	10.7256	5.7552	0.0872	0.0364	0.0133	0.0044	0.0022	0.0436	0.0436	0.0001	3.5229	0.0044	0.0044	0.0044	0.0131	0.0004	0.0044	0.8764	0.0035	0.000022	0.0131	0.0087	0.1308	0.8720	0.0872
12-Nov-96	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Nov-96	8	10.4193	6.1506	0.0918	0.0487	0.0079	0.0046	0.0023	0.0459	0.0459	0.0001	4.1540	0.0046	0.0046	0.0046	0.0138	0.0005	0.0046	1.0098	0.0055	0.000023	0.0138	0.0092	0.1377	0.9180	0.0918
26-Nov-96	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Dec-96	10	10.9462	6.3204	0.0916	0.0513	0.0097	0.0046	0.0023	0.0458	0.0458	0.0001	3.8793	0.0046	0.0046	0.0046	0.0137	0.0005	0.0046	1.0168	0.0037	0.000023	0.0137	0.0092	0.1374	0.9160	0.0916
10-Dec-96	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Dec-96	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-96	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Dec-96	14	10.7627	4.0421	0.0974	0.0406	0.0042	0.0049	0.0024	0.0487	0.0487	0.0001	3.7840	0.0049	0.0049	0.0049	0.0146	0.0005	0.0049	0.9448	0.0063	0.000024	0.0146	0.0097	0.1461	0.9740	0.0974
7-Jan-97	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jan-97	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-97	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-97	18	9.0200	4.4198	0.0902	0.0335	0.0049	0.0045	0.0023	0.0451	0.0451	0.0001	3.3149	0.0045	0.0045	0.0045	0.0135	0.0005	0.0045	0.9110	0.0036	0.000023	0.0135	0.0090	0.1353	0.9020	0.0902
4-Feb-97	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-97	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-97	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-97	22	9.8280	5.9605	0.0910	0.0398	0.0034	0.0046	0.0023	0.0455	0.0455	0.0001	3.7629	0.0046	0.0046	0.0046	0.0137	0.0005	0.0046	1.0966	0.0046	0.000023	0.0137	0.0091	0.1365	0.9100	0.0910
4-Mar-97	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-97	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-97	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-97	26	9.2196	4.7736	0.0936	0.0278	0.0023	0.0047	--	0.0468	0.0468	0.0001	3.3696	0.0047	0.0047	0.0047	0.0140	0.0005	--	1.1232	0.0047	0.000023	0.0140	0.0094	0.1404	0.9360	0.0936

DGK 5

Sample Wt. (kg 1

Date	Cycle	Si mg/kg/wk	Ag mg/kg/wk	Na mg/kg/wk	Sr mg/kg/wk	Tl mg/kg/wk	Sn mg/kg/wk	Ti mg/kg/wk	V mg/kg/wk	Zn mg/kg/wk
24-Sep-96	0	0.3100	0.0034	11.7950	0.3876	0.0337	0.0101	0.0034	0.0101	0.0017
1-Oct-96	1	1.4585	0.0046	45.3740	1.7594	0.0463	0.1389	0.0046	0.0139	0.0083
8-Oct-96	2	0.7741	0.0047	8.0240	0.3653	0.0472	0.0142	0.0047	0.0142	0.0038
15-Oct-96	3	0.5875	0.0046	4.1310	0.3397	0.0459	0.1377	0.0046	0.0138	0.0028
22-Oct-96	4	0.4480	0.0045	2.2400	0.2813	0.0448	0.1344	0.0045	0.0134	0.0022
29-Oct-96	5	0.3534	0.0043	1.2930	0.2194	0.0431	0.1293	0.0043	0.0129	0.0022
5-Nov-96	6	0.2790	0.0044	0.8720	0.2184	0.0436	0.1308	0.0044	0.0131	0.0022
12-Nov-96	7	--	--	--	--	--	--	--	--	--
19-Nov-96	8	0.3029	0.0046	0.9180	0.2437	0.0459	0.1377	0.0046	0.0138	0.0023
26-Nov-96	9	--	--	--	--	--	--	--	--	--
3-Dec-96	10	0.2611	0.0046	0.9160	0.2313	0.0458	0.1374	0.0046	0.0137	0.0023
10-Dec-96	11	--	--	--	--	--	--	--	--	--
17-Dec-96	12	--	--	--	--	--	--	--	--	--
24-Dec-96	13	--	--	--	--	--	--	--	--	--
31-Dec-96	14	0.1899	0.0049	0.9740	0.2031	0.0487	0.1461	0.0049	0.0146	0.0029
7-Jan-97	15	--	--	--	--	--	--	--	--	--
14-Jan-97	16	--	--	--	--	--	--	--	--	--
21-Jan-97	17	--	--	--	--	--	--	--	--	--
28-Jan-97	18	0.1804	0.0045	0.9020	0.1903	0.0451	0.1353	0.0045	0.0135	0.0023
4-Feb-97	19	--	--	--	--	--	--	--	--	--
11-Feb-97	20	--	--	--	--	--	--	--	--	--
18-Feb-97	21	--	--	--	--	--	--	--	--	--
25-Feb-97	22	0.2002	0.0046	0.9100	0.2038	0.0455	0.1365	0.0046	0.0137	0.0023
4-Mar-97	23	--	--	--	--	--	--	--	--	--
11-Mar-97	24	--	--	--	--	--	--	--	--	--
18-Mar-97	25	--	--	--	--	--	--	--	--	--
25-Mar-97	26	0.1498	0.0047	0.9360	0.1825	0.0468	0.1404	--	--	0.0023

DGK 6

Sample Wt. (kg 3 Concentrations

Date	Cycle	Days	Volume (L)	pH	Conductivity (uS/cm)	Alkalinity (mg/L)	Sulphate (mg/L)	Al (mg/L)	Sb (mg/L)	As (mg/L)	Ba (mg/L)	Be (mg/L)	Bi (mg/L)	B (mg/L)	Cd (mg/L)	Ca (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Pb (mg/L)	Li (mg/L)	Mg (mg/L)	Mn (mg/L)	Hg (mg/L)	Mo (mg/L)	Ni (mg/L)	P (mg/L)	K (mg/L)	Se (mg/L)	Si (mg/L)	Ag (mg/L)	Na (mg/L)	Sr (mg/L)	Tl (mg/L)	Sn (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
24-Sep-96	0	0	1.198	7.8	420	64	119	0.2	0.184	0.0696	0.03	0.005	0.1	0.1	0.0005	28.7	0.01	0.01	0.01	0.04	0.001	0.02	5.4	0.022	5E-05	0.03	0.02	0.3	7	0.2	1.28	0.01	50	1.71	0.1	0.03	0.01	0.03	0.005
1-Oct-96	1	7	0.784	8.09	478	69.5	149	0.2	0.287	0.111	0.03	0.005	0.1	0.1	0.0012	32	0.01	0.01	0.01	0.03	0.001	0.03	6.9	0.033	5E-05	0.03	0.02	0.3	6	0.2	2.31	0.01	54	2	0.1	0.3	0.01	0.03	0.007
8-Oct-96	2	14	0.445	8	413	86.3	111	0.2	0.494	0.0981	0.04	0.005	0.1	0.1	0.0002	27.3	0.01	0.01	0.01	0.03	0.001	0.03	6.03	0.028	5E-05	0.03	0.02	0.3	8	0.2	2.61	0.01	48	1.63	0.1	0.2	0.01	0.03	0.01
15-Oct-96	3	21	0.439	8.01	339	79.5	83.2	0.2	0.413	0.0672	0.03	0.005	0.1	0.1	0.0002	22.6	0.01	0.01	0.01	0.03	0.001	0.02	5.38	0.024	5E-05	0.03	0.02	0.3	8	0.2	2.18	0.01	30	1.44	0.1	0.3	0.01	0.03	0.009
22-Oct-96	4	28	0.472	8.18	256	68.7	64	0.2	0.43	0.0734	0.03	0.005	0.1	0.1	0.0002	22.5	0.01	0.01	0.01	0.03	0.001	0.02	5.26	0.024	5E-05	0.03	0.02	0.3	6	0.2	2.13	0.01	20	1.41	0.1	0.3	0.01	0.03	0.009
29-Oct-96	5	35	0.468			62.4	56.6	0.2	0.412	0.0644	0.03	0.005	0.1	0.1	0.0002	23.6	0.01	0.01	0.01	0.03	0.001	0.02	5.71	0.024	5E-05	0.03	0.02	0.3	7	0.2	2.02	0.01	14	1.46	0.1	0.3	0.01	0.03	0.006
5-Nov-96	6	42	0.452			73	50.2	0.2	0.426	0.0525	0.03	0.005	0.1	0.1	0.0002	26.7	0.01	0.01	0.01	0.03	0.001	0.02	6.5	0.025	5E-05	0.03	0.02	0.3	6	0.2	2.02	0.01	10	1.65	0.1	0.3	0.01	0.03	0.045
12-Nov-96	7	49	0.47			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Nov-96	8	56	0.42	7.6	199	47.2	41.4	0.2	0.344	0.0418	0.03	0.005	0.1	0.1	0.0002	20.8	0.01	0.01	0.01	0.03	0.001	0.01	5.3	0.018	5E-05	0.03	0.02	0.3	5	0.2	1.45	0.01	5	1.29	0.1	0.3	0.01	0.03	0.01
26-Nov-96	9	63				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Dec-96	10	70				44.2	47.6	0.2	0.278	0.0392	0.02	0.005	0.1	0.1	0.0002	19.2	0.01	0.01	0.01	0.03	0.001	0.01	5.23	0.016	5E-05	0.03	0.02	0.3	5	0.2	1.19	0.01	3	1.21	0.1	0.3	0.01	0.03	0.006
10-Dec-96	11	77				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Dec-96	12	84				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-96	13	91	0.4	7.4	145	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Dec-96	14	98	0.461	7.91	175	50.1	35	0.2	0.342	0.0314	0.02	0.005	0.1	0.1	0.0002	19.7	0.01	0.01	0.01	0.03	0.001	0.01	5.59	0.012	5E-05	0.03	0.02	0.3	4	0.2	1.14	0.01	2	1.22	0.1	0.3	0.01	0.03	0.005
7-Jan-97	15	105	0.421	7.6	152	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jan-97	16	112	0.436	7.7	158	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-97	17	119	0.453	7.5	159	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-97	18	126	0.449	7.88	174	48.3	35.1	0.2	0.269	0.0246	0.02	0.005	0.1	0.1	0.0002	19.9	0.01	0.01	0.01	0.03	0.001	0.01	5.81	0.013	5E-05	0.03	0.02	0.3	4	0.2	1.07	0.01	2	1.22	0.1	0.3	0.01	0.03	0.005
4-Feb-97	19	133	0.414	7.7	181	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-97	20	140	0.399	7.6	178	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-97	21	147	0.43			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-97	22	154	0.473			54.1	30.6	0.2	0.253	0.0175	0.02	0.005	0.1	0.1	0.0002	18.9	0.01	0.01	0.01	0.03	0.001	0.01	5.82	0.011	5E-05	0.03	0.02	0.3	3	0.2	0.97	0.01	2	1.07	0.1	0.3	0.01	0.03	0.01
4-Mar-97	23	161	0.516			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-97	24	168	0.511	7.6	159	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-97	25	175				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-97	26	182				53.7	34.6	0.2	--	0.013	0.02	--	0.1	--	0.0002	19.4	0.01	0.01	0.01	0.03	0.001	--	6.6	0.01	5E-05	0.03	0.02	0.3	3	0.2	0.9	0.01	2	1.13	0.1	0.3	--	--	0.01

DGK 6

Sample Wt. (kg 3 Loadings

Date	Cycle	Alkalinity mg/kg/wk	Sulphate mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk	Pb mg/kg/wk	Li mg/kg/wk	Mg mg/kg/wk	Mn mg/kg/wk	Hg mg/kg/wk	Mo mg/kg/wk	Ni mg/kg/wk	P mg/kg/wk	K mg/kg/wk	Se mg/kg/wk
24-Sep-96	0	25.3629	47.1591	0.0793	0.0729	0.0276	0.0119	0.0020	0.0396	0.0396	0.0002	11.3737	0.0040	0.0040	0.0040	0.0159	0.0004	0.0079	2.1400	0.0087	0.000020	0.0119	0.0079	0.1189	2.7741	0.0793
1-Oct-96	1	18.0245	38.6424	0.0519	0.0744	0.0288	0.0078	0.0013	0.0259	0.0259	0.0003	8.2990	0.0026	0.0026	0.0026	0.0078	0.0003	0.0078	1.7895	0.0086	0.000013	0.0078	0.0052	0.0778	1.5561	0.0519
8-Oct-96	2	12.7038	16.3397	0.0294	0.0727	0.0144	0.0059	0.0007	0.0147	0.0147	0.0000	4.0187	0.0015	0.0015	0.0015	0.0044	0.0001	0.0044	0.8876	0.0041	0.000007	0.0044	0.0029	0.0442	1.1776	0.0294
15-Oct-96	3	11.5450	12.0823	0.0290	0.0600	0.0098	0.0044	0.0007	0.0145	0.0145	0.0000	3.2820	0.0015	0.0015	0.0015	0.0044	0.0001	0.0029	0.7813	0.0035	0.000007	0.0044	0.0029	0.0436	1.1618	0.0290
22-Oct-96	4	10.7266	9.9927	0.0312	0.0671	0.0115	0.0047	0.0008	0.0156	0.0156	0.0000	3.5131	0.0016	0.0016	0.0016	0.0047	0.0002	0.0031	0.8213	0.0037	0.000008	0.0047	0.0031	0.0468	0.9368	0.0312
29-Oct-96	5	9.6603	8.7624	0.0310	0.0638	0.0100	0.0046	0.0008	0.0155	0.0155	0.0000	3.6536	0.0015	0.0015	0.0015	0.0046	0.0002	0.0031	0.8840	0.0037	0.000008	0.0046	0.0031	0.0464	1.0837	0.0310
5-Nov-96	6	10.9150	7.5059	0.0299	0.0637	0.0078	0.0045	0.0007	0.0150	0.0150	0.0000	3.9922	0.0015	0.0015	0.0015	0.0045	0.0001	0.0030	0.9719	0.0037	0.000007	0.0045	0.0030	0.0449	0.8971	0.0299
12-Nov-96	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Nov-96	8	6.5577	5.7519	0.0278	0.0478	0.0058	0.0042	0.0007	0.0139	0.0139	0.0000	2.8898	0.0014	0.0014	0.0014	0.0042	0.0001	0.0014	0.7364	0.0025	0.000007	0.0042	0.0028	0.0417	0.6947	0.0278
26-Nov-96	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Dec-96	10	5.3806	5.7945	0.0243	0.0338	0.0048	0.0024	0.0006	0.0122	0.0122	0.0000	2.3373	0.0012	0.0012	0.0012	0.0037	0.0001	0.0012	0.6367	0.0019	0.000006	0.0037	0.0024	0.0365	0.6087	0.0243
10-Dec-96	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Dec-96	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-96	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Dec-96	14	7.6401	5.3374	0.0305	0.0522	0.0048	0.0030	0.0008	0.0152	0.0152	0.0000	3.0042	0.0015	0.0015	0.0015	0.0046	0.0002	0.0015	0.8525	0.0018	0.000008	0.0046	0.0030	0.0457	0.6100	0.0305
7-Jan-97	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jan-97	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-97	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-97	18	7.1739	5.2133	0.0297	0.0400	0.0037	0.0030	0.0007	0.0149	0.0149	0.0000	2.9557	0.0015	0.0015	0.0015	0.0045	0.0001	0.0015	0.8629	0.0019	0.000007	0.0045	0.0030	0.0446	0.5941	0.0297
4-Feb-97	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-97	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-97	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-97	22	8.4649	4.7879	0.0313	0.0396	0.0027	0.0031	0.0008	0.0156	0.0156	0.0000	2.9572	0.0016	0.0016	0.0016	0.0047	0.0002	0.0016	0.9106	0.0017	0.000008	0.0047	0.0031	0.0469	0.4694	0.0313
4-Mar-97	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-97	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-97	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-97	26	7.7450	4.9903	0.0288	--	0.0019	0.0029	--	0.0144	--	0.0000	2.7980	0.0014	0.0014	0.0014	0.0043	0.0001	--	0.9519	0.0014	0.000007	0.0043	0.0029	0.0433	0.4327	0.0288

DGK 6

Sample Wt. (kg 3

Date	Cycle	Si mg/kg/wk	Ag mg/kg/wk	Na mg/kg/wk	Sr mg/kg/wk	Tl mg/kg/wk	Sn mg/kg/wk	Ti mg/kg/wk	V mg/kg/wk	Zn mg/kg/wk
24-Sep-96	0	0.5073	0.0040	19.8148	0.6777	0.0396	0.0119	0.0040	0.0119	0.0020
1-Oct-96	1	0.5991	0.0026	14.0046	0.5187	0.0259	0.0778	0.0026	0.0078	0.0018
8-Oct-96	2	0.3842	0.0015	7.0658	0.2399	0.0147	0.0294	0.0015	0.0044	0.0015
15-Oct-96	3	0.3166	0.0015	4.3566	0.2091	0.0145	0.0436	0.0015	0.0044	0.0013
22-Oct-96	4	0.3326	0.0016	3.1227	0.2202	0.0156	0.0468	0.0016	0.0047	0.0014
29-Oct-96	5	0.3127	0.0015	2.1674	0.2260	0.0155	0.0464	0.0015	0.0046	0.0009
5-Nov-96	6	0.3020	0.0015	1.4952	0.2467	0.0150	0.0449	0.0015	0.0045	0.0067
12-Nov-96	7	--	--	--	--	--	--	--	--	--
19-Nov-96	8	0.2015	0.0014	0.6947	0.1792	0.0139	0.0417	0.0014	0.0042	0.0014
26-Nov-96	9	--	--	--	--	--	--	--	--	--
3-Dec-96	10	0.1449	0.0012	0.3652	0.1473	0.0122	0.0365	0.0012	0.0037	0.0007
10-Dec-96	11	--	--	--	--	--	--	--	--	--
17-Dec-96	12	--	--	--	--	--	--	--	--	--
24-Dec-96	13	--	--	--	--	--	--	--	--	--
31-Dec-96	14	0.1738	0.0015	0.3050	0.1860	0.0152	0.0457	0.0015	0.0046	0.0008
7-Jan-97	15	--	--	--	--	--	--	--	--	--
14-Jan-97	16	--	--	--	--	--	--	--	--	--
21-Jan-97	17	--	--	--	--	--	--	--	--	--
28-Jan-97	18	0.1589	0.0015	0.2971	0.1812	0.0149	0.0446	0.0015	0.0045	0.0007
4-Feb-97	19	--	--	--	--	--	--	--	--	--
11-Feb-97	20	--	--	--	--	--	--	--	--	--
18-Feb-97	21	--	--	--	--	--	--	--	--	--
25-Feb-97	22	0.1518	0.0016	0.3129	0.1674	0.0156	0.0469	0.0016	0.0047	0.0016
4-Mar-97	23	--	--	--	--	--	--	--	--	--
11-Mar-97	24	--	--	--	--	--	--	--	--	--
18-Mar-97	25	--	--	--	--	--	--	--	--	--
25-Mar-97	26	0.1298	0.0014	0.2885	0.1630	0.0144	0.0433	--	--	0.0014

DGK 7

Sample Wt. (kg 15

Concentrations

Date	Cycle	Days	Volume (L)	pH	Conductivity (uS/cm)	Alkalinity (mg/L)	Sulphate (mg/L)	Al (mg/L)	Sb (mg/L)	As (mg/L)	Ba (mg/L)	Be (mg/L)	Bi (mg/L)	B (mg/L)	Cd (mg/L)	Ca (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Pb (mg/L)	Li (mg/L)	Mg (mg/L)	Mn (mg/L)	Hg (mg/L)	Mo (mg/L)	Ni (mg/L)	P (mg/L)	K (mg/L)	Se (mg/L)	Si (mg/L)	Ag (mg/L)	Na (mg/L)	Sr (mg/L)	Tl (mg/L)	Sn (mg/L)	Ti (mg/L)	V (mg/L)	Zn (mg/L)
24-Sep-96	0	0	5.6	8.26	564	70.8	160	0.2	0.188	0.0713	0.04	0.005	0.1	0.1	0.001	42.4	0.01	0.01	0.02	0.03	0.001	0.03	7.91	0.038	5E-05	0.03	0.02	0.3	8	0.2	1.38	0.01	61	2.47	0.1	0.03	0.01	0.03	0.006
1-Oct-96	1	7	0.594	8.01	1180	144	429	0.2	0.559	0.062	0.1	0.005	0.1	0.1	0.0004	90.2	0.01	0.01	0.01	0.03	0.001	0.06	19.6	0.106	5E-05	0.09	0.02	0.3	14	0.2	3.75	0.01	136	5.66	0.1	0.3	0.01	0.03	0.012
8-Oct-96	2	14	0.609	8.06	1060	143	400	0.2	0.569	0.053	0.1	0.005	0.1	0.1	0.0003	88	0.01	0.01	0.01	0.03	0.001	0.06	19.2	0.099	5E-05	0.09	0.02	0.3	13	0.2	3.74	0.01	114	5.24	0.1	0.2	0.01	0.03	0.01
15-Oct-96	3	21	0.614	8.05	932	124	365	0.2	0.494	0.0417	0.08	0.005	0.1	0.1	0.0002	73	0.01	0.01	0.01	0.03	0.001	0.06	16.7	0.085	5E-05	0.07	0.02	0.3	13	0.2	3.25	0.01	92	4.62	0.1	0.3	0.01	0.03	0.007
22-Oct-96	4	28	0.586	8.21	819	111	334	0.2	0.643	0.0524	0.07	0.005	0.1	0.1	0.0002	73.4	0.01	0.01	0.01	0.03	0.001	0.05	17.1	0.071	5E-05	0.07	0.02	0.3	14	0.2	3.32	0.01	87	4.69	0.1	0.3	0.01	0.03	0.006
29-Oct-96	5	35	0.029			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-Nov-96	6	42	0.04			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Nov-96	7	49	0.007			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Nov-96	8	56	0.022	7.75	1320	109	649	0.2	0.685	0.0409	0.09	0.005	0.1	0.1	0.0002	104	0.01	0.01	0.02	0.03	0.001	0.07	29.3	0.066	5E-05	0.08	0.02	0.3	16	0.2	3.05	0.01	116	6.87	0.1	0.3	0.01	0.03	0.045
26-Nov-96	9	63				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Dec-96	10	70				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Dec-96	11	77				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Dec-96	12	84				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-96	13	91	0.669	7.64	1680	76.3	866	0.2	0.515	0.0273	0.06	0.005	0.1	0.1	0.0005	190	0.01	0.01	0.01	0.03	0.001	0.07	48.3	0.15	5E-05	0.06	0.02	0.3	20	0.2	2.31	0.01	110	11.4	0.1	0.3	0.01	0.03	0.009
31-Dec-96	14	98	0.858	7.92	1070	73.3	494	0.2	0.518	0.0258	0.04	0.005	0.1	0.1	0.0002	112	0.01	0.01	0.01	0.03	0.001	0.05	28.6	0.101	5E-05	0.04	0.02	0.3	15	0.2	2.03	0.01	64	6.78	0.1	0.3	0.01	0.03	0.014
7-Jan-97	15	105	0.883	7.6	685	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jan-97	16	112	0.877	7.92	552	82.3	184	0.2	0.595	0.0289	0.04	0.005	0.1	0.1	0.0002	53.6	0.01	0.01	0.01	0.03	0.001	0.03	14.1	0.044	5E-05	0.03	0.02	0.3	10	0.2	2.14	0.01	30	3.49	0.1	0.3	0.01	0.03	0.005
21-Jan-97	17	119	0.629	7.7	420	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-97	18	126	0.586	7.7	419	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Feb-97	19	133	0.618	7.7	490	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-97	20	140	0.699	7.6	448	88	134	0.2	0.683	0.02	0.04	--	0.1	--	0.0002	49	0.01	0.01	0.01	0.03	0.001	--	13.8	0.04	5E-05	0.03	0.02	0.3	11	0.2	2.03	0.01	17	3.1	0.1	0.3	--	--	0.007
18-Feb-97	21	147	0.06			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-97	22	154	0.017			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Mar-97	23	161	0.014			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-97	24	168	0.04	7.7	646	84	266	0.2	0.694	0.022	0.07	--	0.1	--	0.0002	70.1	0.01	0.01	0.01	0.03	0.001	--	21.6	0.01	5E-05	0.04	0.02	0.3	12	0.2	2.16	0.01	20	4.56	0.1	0.3	--	--	0.025
18-Mar-97	25	175				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-97	26	182				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-97	27	189				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Apr-97	28	196				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Apr-97	29	203				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Apr-97	30	210				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Apr-97	31	217				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-May-97	32	224		8.16	559	98.5	179	0.2	0.446	0.0132	0.04	0.005	0.1	0.1	0.0002	60	0.01	0.01	0.01	0.03	0.001	0.04	20.2	0.024	5E-05	0.03	0.02	0.3	10	0.2	1.63	0.01	10	3.81	0.1	0.3	0.01	0.03	0.007
13-May-97	33	231				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-May-97	34	238				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-May-97	35	245				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Jun-97	36	252		8.09	456	97.8	140	0.2	0.4	0.0115	0.04	0.005	0.1	0.1	0.0002	49.4	0.01	0.01	0.01	0.03	0.001	0.03	18.7	0.017	5E-05	0.03	0.02	0.3	10	0.2	1.59	0.01	6	3.17	0.1	0.3	0.01	0.03	0.006

DGK 7

Sample Wt. (kg 15 Loadings

Date	Cycle	Alkalinity mg/kg/wk	Sulphate mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk	Pb mg/kg/wk	Li mg/kg/wk	Mg mg/kg/wk	Mn mg/kg/wk	Hg mg/kg/wk	Mo mg/kg/wk	Ni mg/kg/wk	P mg/kg/wk	K mg/kg/wk	Se mg/kg/wk
24-Sep-96	0	26.4267	59.7214	0.0747	0.0702	0.0266	0.0149	0.0019	0.0373	0.0373	0.0004	15.8262	0.0037	0.0037	0.0075	0.0112	0.0004	0.0112	2.9525	0.0142	0.0000187	0.0112	0.0075	0.1120	2.9861	0.0747
1-Oct-96	1	5.7013	16.9850	0.0079	0.0221	0.0025	0.0040	0.0002	0.0040	0.0040	0.0000	3.5712	0.0004	0.0004	0.0004	0.0012	0.0000	0.0024	0.7760	0.0042	0.0000020	0.0036	0.0008	0.0119	0.5543	0.0079
8-Oct-96	2	5.8046	16.2368	0.0081	0.0231	0.0022	0.0041	0.0002	0.0041	0.0041	0.0000	3.5721	0.0004	0.0004	0.0004	0.0012	0.0000	0.0024	0.7794	0.0040	0.0000020	0.0037	0.0008	0.0122	0.5277	0.0081
15-Oct-96	3	5.0747	14.9377	0.0082	0.0202	0.0017	0.0033	0.0002	0.0041	0.0041	0.0000	2.9875	0.0004	0.0004	0.0004	0.0012	0.0000	0.0025	0.6834	0.0035	0.0000020	0.0029	0.0008	0.0123	0.5320	0.0082
22-Oct-96	4	4.3355	13.0457	0.0078	0.0251	0.0020	0.0027	0.0002	0.0039	0.0039	0.0000	2.8669	0.0004	0.0004	0.0004	0.0012	0.0000	0.0020	0.6679	0.0028	0.0000020	0.0027	0.0008	0.0117	0.5468	0.0078
29-Oct-96	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-Nov-96	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Nov-96	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Nov-96	8	0.1598	0.9517	0.0003	0.0010	0.0001	0.0001	0.0000	0.0001	0.0001	0.0000	0.1525	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0430	0.0001	0.0000001	0.0001	0.0000	0.0004	0.0235	0.0003
26-Nov-96	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Dec-96	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Dec-96	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Dec-96	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-96	13	3.4023	38.6159	0.0089	0.0230	0.0012	0.0027	0.0002	0.0045	0.0045	0.0000	8.4723	0.0004	0.0004	0.0004	0.0013	0.0000	0.0031	2.1537	0.0067	0.0000022	0.0027	0.0009	0.0134	0.8918	0.0089
31-Dec-96	14	4.1919	28.2511	0.0114	0.0296	0.0015	0.0023	0.0003	0.0057	0.0057	0.0000	6.4051	0.0006	0.0006	0.0006	0.0017	0.0001	0.0029	1.6356	0.0058	0.0000029	0.0023	0.0011	0.0172	0.8578	0.0114
7-Jan-97	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jan-97	16	4.8108	10.7557	0.0117	0.0348	0.0017	0.0023	0.0003	0.0058	0.0058	0.0000	3.1332	0.0006	0.0006	0.0006	0.0018	0.0001	0.0018	0.8242	0.0026	0.0000029	0.0018	0.0012	0.0175	0.5845	0.0117
21-Jan-97	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-97	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Feb-97	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-97	20	4.1000	6.2432	0.0093	0.0318	0.0009	0.0019	--	0.0047	--	0.0000	2.2829	0.0005	0.0005	0.0005	0.0014	0.0000	--	0.6430	0.0019	0.0000023	0.0014	0.0009	0.0140	0.5125	0.0093
18-Feb-97	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-97	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Mar-97	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-97	24	0.2240	0.7092	0.0005	0.0019	0.0001	0.0002	--	0.0003	--	0.0000	0.1869	0.0000	0.0000	0.0000	0.0001	0.0000	--	0.0576	0.0000	0.0000001	0.0001	0.0001	0.0008	0.0320	0.0005
18-Mar-97	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-97	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-97	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Apr-97	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Apr-97	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Apr-97	30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Apr-97	31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-May-97	32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-May-97	33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-May-97	34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-May-97	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Jun-97	36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

DGK 7

Sample Wt. (kg 15

Date	Cycle	Si mg/kg/wk	Ag mg/kg/wk	Na mg/kg/wk	Sr mg/kg/wk	Tl mg/kg/wk	Sn mg/kg/wk	Ti mg/kg/wk	V mg/kg/wk	Zn mg/kg/wk
24-Sep-96	0	0.5151	0.0037	22.7688	0.9219	0.0373	0.0112	0.0037	0.0112	0.0022
1-Oct-96	1	0.1485	0.0004	5.3845	0.2241	0.0040	0.0119	0.0004	0.0012	0.0005
8-Oct-96	2	0.1518	0.0004	4.6275	0.2127	0.0041	0.0081	0.0004	0.0012	0.0004
15-Oct-96	3	0.1330	0.0004	3.7651	0.1891	0.0041	0.0123	0.0004	0.0012	0.0003
22-Oct-96	4	0.1297	0.0004	3.3981	0.1832	0.0039	0.0117	0.0004	0.0012	0.0002
29-Oct-96	5	--	--	--	--	--	--	--	--	--
5-Nov-96	6	--	--	--	--	--	--	--	--	--
12-Nov-96	7	--	--	--	--	--	--	--	--	--
19-Nov-96	8	0.0045	0.0000	0.1701	0.0101	0.0001	0.0004	0.0000	0.0000	0.0001
26-Nov-96	9	--	--	--	--	--	--	--	--	--
3-Dec-96	10	--	--	--	--	--	--	--	--	--
10-Dec-96	11	--	--	--	--	--	--	--	--	--
17-Dec-96	12	--	--	--	--	--	--	--	--	--
24-Dec-96	13	0.1030	0.0004	4.9050	0.5083	0.0045	0.0134	0.0004	0.0013	0.0004
31-Dec-96	14	0.1161	0.0006	3.6601	0.3877	0.0057	0.0172	0.0006	0.0017	0.0008
7-Jan-97	15	--	--	--	--	--	--	--	--	--
14-Jan-97	16	0.1251	0.0006	1.7536	0.2040	0.0058	0.0175	0.0006	0.0018	0.0003
21-Jan-97	17	--	--	--	--	--	--	--	--	--
28-Jan-97	18	--	--	--	--	--	--	--	--	--
4-Feb-97	19	--	--	--	--	--	--	--	--	--
11-Feb-97	20	0.0946	0.0005	0.7920	0.1444	0.0047	0.0140	--	--	0.0003
18-Feb-97	21	--	--	--	--	--	--	--	--	--
25-Feb-97	22	--	--	--	--	--	--	--	--	--
4-Mar-97	23	--	--	--	--	--	--	--	--	--
11-Mar-97	24	0.0058	0.0000	0.0533	0.0122	0.0003	0.0008	--	--	0.0001
18-Mar-97	25	--	--	--	--	--	--	--	--	--
25-Mar-97	26	--	--	--	--	--	--	--	--	--
1-Apr-97	27	--	--	--	--	--	--	--	--	--
8-Apr-97	28	--	--	--	--	--	--	--	--	--
15-Apr-97	29	--	--	--	--	--	--	--	--	--
22-Apr-97	30	--	--	--	--	--	--	--	--	--
29-Apr-97	31	--	--	--	--	--	--	--	--	--
6-May-97	32	--	--	--	--	--	--	--	--	--
13-May-97	33	--	--	--	--	--	--	--	--	--
20-May-97	34	--	--	--	--	--	--	--	--	--
27-May-97	35	--	--	--	--	--	--	--	--	--
3-Jun-97	36	--	--	--	--	--	--	--	--	--

Appendix H2: Humidity Cell Test Concentrations and Loading Tables

HC 1
Sample = DG07-331C 52.92-62.30
Sample Wt. (kg) 1

Date	Cycle	Volume mL		pH	ORP	Cond.	Concentrations: Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Jul-09	0	750	385	7.71	369	326	2.14	29.28	133	3.9	0.12	126	0.0238	0.0012	0.00188	0.00725	0.00001	0.000005	0.05	0.000005	45.3	0.0001	0.00103	0.00132	0.002	0.000024	0.0145	3.21	0.0514	0.00002	0.00176	0.0122	0.007	9.19	0.00522	1.02
9-Jul-09	1	500	380	7.58	324	323	2.28	23.38	188	13	0.17	185	0.0587	0.00688	0.0106	0.00657	0.00001	0.000005	0.05	0.000054	64.8	0.0001	0.000747	0.00519	0.012	0.000321	0.0111	5.55	0.0463	0.00002	0.00217	0.00474	0.004	7.9	0.0112	1.4
16-Jul-09	2	500	380	7.53	367	190	2.69	22.46	77	1.3	0.13	83.7	0.081	0.00721	0.00772	0.00349	0.00001	0.000005	0.05	0.00001	29.5	0.0001	0.000183	0.00144	0.003	0.00017	0.0101	2.42	0.0218	0.00001	0.00262	0.00128	0.002	5.76	0.00465	1.21
23-Jul-09	3	500	425	7.60	379	148	2.61	22.44	53	0.6	0.13	58.8	0.104	0.00312	0.00735	0.00221	0.00001	0.000005	0.05	0.000018	21.5	0.0001	0.000072	0.00082	0.002	0.000094	0.0066	1.26	0.0154	0.00001	0.00135	0.0004	0.002	3.81	0.00198	1.16
30-Jul-09	4	500	425	7.53	342	125	4.38	22.61	37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Aug-09	5	500	450	8.04	210	100	1.75	24.63	38	0.9	0.09	49.5	0.12	0.0028	0.00788	0.00146	0.00001	0.000005	0.05	0.000005	18.2	0.0001	0.000049	0.00069	0.006	0.000018	0.0046	0.99	0.0105	0.00001	0.00096	0.00035	0.002	3.02	0.00124	1.18
13-Aug-09	6	500	440	7.40	328	106	4.76	24.59	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Aug-09	7	500	450	7.50	332	92	2.5	23.49	26	0.5	0.06	40.9	0.126	0.00292	0.0087	0.00115	0.00001	0.000012	0.05	0.000006	15	0.0001	0.000046	0.00049	0.006	0.000058	0.0043	0.84	0.0092	0.00001	0.00086	0.00029	0.002	2.96	0.00085	1.33
27-Aug-09	8	500	450	7.74	308	87	2.77	23.72	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Sep-09	9	500	460	8.15	106	90	2.36	25.22	21	0.5	0.05	40.2	0.121	0.00282	0.00868	0.00133	0.00001	0.000005	0.05	0.000006	14.8	0.0001	0.00004	0.0006	0.005	0.000074	0.0038	0.79	0.0091	0.00001	0.00073	0.00023	0.003	2.81	0.00082	1.3
10-Sep-09	10	500	420	7.82	332	100	1.24	23.55	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Sep-09	11	500	435	7.69	342	109	2.95	25.53	29	0.7	0.07	47.7	0.117	0.00247	0.0096	0.00167	0.00001	0.000005	0.05	0.000011	17.6	0.0001	0.000071	0.00066	0.006	0.000015	0.0049	0.91	0.0083	0.00001	0.00067	0.00026	0.002	3.2	0.0009	1.55
24-Sep-09	12	500	450	7.68	342	99	2.19	25.26	33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Oct-09	13	500	435	7.63	347	95	2.45	25.28	26	0.5	0.04	43.5	0.0965	0.00177	0.00746	0.00191	0.00001	0.000005	0.05	0.000005	16.1	0.0001	0.000072	0.00077	0.01	0.000011	0.0037	0.8	0.0089	0.00001	0.00054	0.00029	0.002	2.58	0.0007	1.21
8-Oct-09	14	500	445	7.50	332	88	3.88	25.45	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Oct-09	15	500	440	7.53	348	83	2.83	23.39	28	0.5	0.04	42.4	0.106	0.00181	0.00789	0.00145	0.00001	0.000005	0.05	0.000011	15.8	0.0001	0.000063	0.00109	0.006	0.000027	0.0034	0.73	0.0088	0.00001	0.00049	0.00032	0.002	2.46	0.00067	1.15
22-Oct-09	16	500	450	7.42	373	78	2.99	21.71	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Oct-09	17	500	445	7.65	341	72	2.14	17.33	18	0.5	0.03	28.5	0.0742	0.00133	0.00512	0.00097	0.00001	0.000005	0.05	0.000005	10.6	0.0001	0.000047	0.00087	0.007	0.000919	0.0027	0.49	0.0066	0.00001	0.00036	0.00035	0.003	1.78	0.00044	0.8
5-Nov-09	18	500	475	7.54	336	68	3.95	20.42	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Nov-09	19	500	465	7.47	332	71	4.52	23.19	12	0.5	0.03	30.1	0.0992	0.00139	0.00676	0.00103	0.00001	0.000005	0.05	0.000007	11.2	0.0001	0.000038	0.00023	0.006	0.000019	0.0027	0.51	0.0068	0.00001	0.00042	0.0002	0.004	1.95	0.00043	1.01
19-Nov-09	20	500	455	7.49	345	79	4.54	23.14	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-Nov-09	21	500	460	7.41	230	86	1.88	28.46	18	0.5	0.04	34	0.111	0.00153	0.00812	0.00121	0.00001	0.000011	0.05	0.000005	12.7	0.0001	0.000052	0.00025	0.007	0.000018	0.0032	0.58	0.0048	0.00001	0.00045	0.00024	0.002	2.26	0.00047	1.21
3-Dec-09	22	500	485	7.35	336	75	4.97	24.63	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Dec-09	23	500	470	7.17	378	64	4.93	17.75	21	0.5	0.02	27.7	0.068	0.00108	0.00434	0.00085	0.00001	0.000006	0.05	0.000005	10.4	0.0001	0.000049	0.00027	0.011	0.00007	0.0023	0.44	0.0057	0.00001	0.00032	0.00014	0.002	1.51	0.00037	0.95
17-Dec-09	24	500	475	7.17	357	68	2.94	21.77	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-09	25	500	470	7.70	367	69	2.38	25.25	14	0.5	0.02	31.7	0.0663	0.00132	0.00576	0.00096	0.00001	0.000005	0.05	0.000005	11.9	0.0001	0.000049	0.00032	0.005	0.000014	0.0026	0.46	0.0073	0.00001	0.00028	0.00023	0.002	1.82	0.00043	1.05
31-Dec-09	26	500	470	7.55	392	80	2.68	23.91	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Jan-10	27	500	500	7.57	379	76	2.62	22.91	15	0.5	0.03	31.5	0.0709	0.00126	0.00506	0.00091	0.00001	0.000005	0.05	0.000005	11.8	0.0001	0.000051	0.00019	0.01	0.000039	0.0023	0.47	0.0062	0.00001	0.00028	0.00019	0.002	1.58	0.00034	1
14-Jan-10	28	500	480	7.26	350	73	--	21.92	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-10	29	500	500	7.72	344	70	2.17	23.26	15	0.5	0.01	32.7	0.0677	0.0012	0.00515	0.00086	0.00001	0.000005	0.05	0.000005	12.3	0.0001	0.00005	--	0.004	0.000009	0.0022	0.46	0.0053	0.00001	0.00031	0.0002	0.002	1.74	0.00035	0.91
28-Jan-10	30	500	480	7.26	359	61	4.1	22.2	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Feb-10	31	500	510	7.19	299	56	3.5	21.87	14	0.5	0.02	33.3	0.0658	0.00122	0.00542	0.00088	0.00001	0.000005	0.05	0.000005	12.6	0.0001	0.000041	0.00038	0.004	0.00005	0.0023	0.45	0.0046	0.00001	0.0003	0.00026	0.002	1.58	0.00036	1.02
11-Feb-10	32	500	475	7.32	347	72	3.07	21.15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	33	500	440	7.23	231	69	3.99	17.85	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-10	34	500	480	7.26	375	54	3.36	15.8	15	--	0.02	25.7	0.0488	0.00081	0.00382	0.00086	0.00001	0.000005	0.05	0.000005	9.76	0.0001	0.000065	0.00053	0.002	0.000051	0.0018	0.32	0.0057	0.00001	0.0002	0.00027	0.002	1.16	0.00029	0.75
4-Mar-10	35	500	480	7.31	373	66	3.01	16.97	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-10	36	500	445	7.26	391	60	3.27	15.48	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	37	500	465	7.32	339	65	3.42	16.8	12	--	0.02	26.6	0.0699	0.00078	0.00463	0.00086	0.00001	0.000005	0.05	0.000005	10.1	0.0001	0.000044	0.00029	0.006	0.000021	0.0019	0.33	0.0047	0.00001	0.00023	0.00028	0.002	1.29	0.00032	0.8
25-Mar-10	38	500	470	7.30	371	54	3.23	14.96	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	39	500	445	7.39	378	59	2.89	14.59	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Apr-10	40	500	470	7.28	359	55	3.24	15.27	9	--	0.02	24.3	0.0683	0.00068	0.00469	0.00168	0.00001	0.000005	0.05	0.000005	9.22	0.0001	0.000042	0.00048	0.007	0.000019	0.0017	0.3	0.0031	0.00001	0.0002	0.00026	0.002	1.3	0.00029	0.8
15-Apr-10	41	500	485	7.33	300	67	3.51	17.06	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Apr-10	42	500	450	7.28	355	54	4.06	13.85	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Apr-10	43	500	515	7.38	357	58	2.3	16.14	14	--	0.02	24.1	0.0415	0.00076	0.00364	0.00084	0.00001	0.000005	0.05	0.000005	9.19	0.0001	0.000032	0.00031	0.003	0.000055	0.0017	0.27	0.0039	0.00001	0.00018	0.00023	0.002	1.11	0.00028	0.72
6-May-10	44	500	410	7.31	297	66	4.45	17.81	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-May-10	45	500	505	7.35	293	73	3.64	16.84	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-May-10	46	500	475	7.56	352	64	4.19	17.5	12	--	0.01	26.7	0.0476	0.00074	0.00515	0.00077	0.00001	0.000005	0.05	0.000005	10.2	0.0001	0.000028	0.00038	0.003	0.000012	0.0019	0.3	0.0039	0.00001	0.00009	0.00017	0.002	1.46	0.00051	0.94
27-May-10	47	500	495	7.36	379	65	6.07	23	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Jun-10	48	500	485	7.35	364	58	3.16	16.42	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Jun-10	49	500	480	7.42	272	66	4.6	23.34	8	--	0.01	25.8	0.0625	0.00077	0.00596	0.0007	0.00001	0.000005	0.05	0.00001	9.86	0.0002	0.000028	0.00044	0.002	0.000016	0.0018	0.28	0.0034	0.00001	0.00024	0.00048	0.002	1.5	0.00043	0.93
17-Jun-10	50	500	465	7.37	339	53	4.45	15.74	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Jun-10	51	500	480	7.45	405	55	2.85	17.07	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Jul-10	52	500	480	7.42	409	57	2.87	16.42	8	--	0.07	23	0.0508	0.0006	0.00438	0.00088	0.00001	0.000005	0.05	0.000005	8.82	0.0001	0.000034	0.00027	0.002	0.000023	0.0014	0.25	0.0041	0.00001	0.00009	0.00019	0.002	1.2	0.00035	0.75
8-Jul-10	53	500	465	7.28	274	52	2.45	14.31	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Jul-10	54	500	475	7.21	345	55	4.42	15.57	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Jul-10	55	500	510	7.01	360	55	4.35	15.81	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Jul-10	56	500	500	7.27	345	45	4.7	14.07	9	--	0.01	17.6	0.0454	0.00054	0.00335	0.00072	0.00001	0.000005	0.05	0.000005	6.75	0.0001	0.000077	0.00055	0.003	0.000071	0.0012	0.18	0.0048	0.00001	0.0001	0.00051	0.002	0.87	0.00028	0.51
5-Aug-10	57	500	495	7.38	227	47	2.52	12.91	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Aug-10	58	500	475	7.36	397	51	4.68	16.29	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Aug-10	59	500	475	6.94	361	53	5.58	15.78	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-Aug-10	60	500	455	7.29	368	52	2.97	14.7	9	--	0.03	23.8	0.0472	0.0005	0.00332	0.00206	0.00001	0.000005	0.05	0.000005	9.15	0.0001	0.000034	0.00118	0.003	0.000005	0.0014	0.22	0.0042	0.00001	0.00015	0.00018	0.002	1.06	0.00031	0.7
2-Sep-10	61	500	475	7.35	250	48	4.08	15.57	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9-Sep-10	62	500	440	7.02	380	50	5.2	14.64	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Sep-10	63	500	465	7.11	354	51	3.19	16.92	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Cell Terminated

HC 1
Sample = DG07-331C 52.92-62.30
Sample Wt. (kg) 1 **Loadings**

Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
0.000005	4.77	0.141	44	0.000018	0.00001	0.0005	0.00182	0.0002	0.0005	0.0001
0.000013	6.63	0.18	71	0.000017	0.00001	0.0005	0.00186	0.0003	0.0038	0.0001
0.000005	3.28	0.0937	26	0.000012	0.00003	0.0005	0.00198	0.0002	0.0031	0.0001
0.000005	1.39	0.0678	15	0.000012	0.00001	0.0005	0.000975	0.0002	0.0006	0.0001
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0.000005	0.9	0.0532	12	0.000005	0.00001	0.0005	0.000897	0.0002	0.0004	0.0001
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0.000005	0.56	0.041	8	0.000007	0.00001	0.0005	0.000897	0.0003	0.0008	0.0001
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0.000005	0.43	0.0412	9	0.000007	0.00002	0.0005	0.00103	0.0003	0.0004	0.0001
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0.000005	0.45	0.0506	11	0.000007	0.00008	0.0005	0.00106	0.0003	0.0011	0.0001
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0.000005	0.32	0.0436	10	0.000006	0.00001	0.0005	0.000971	0.0002	0.0006	0.0001
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0.000005	0.32	0.0416	10	0.000006	0.00002	0.0005	0.0011	0.0002	0.0008	0.0001
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0.000005	0.27	0.0318	7	0.000005	0.00009	0.0005	0.000872	0.0002	0.0008	0.0001
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0.000005	0.21	0.0314	6	0.000004	0.00002	0.0005	0.000896	0.0002	0.0004	0.0001
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0.000005	0.24	0.0349	7	0.000007	0.00003	0.0006	0.000848	0.0003	0.0007	0.0001
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0.000025	0.16	0.027	4	0.000012	0.00002	0.0006	0.000875	0.0002	0.0002	0.0001
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0.000005	0.16	0.0313	6	0.000005	0.00001	0.0005	0.000983	0.0002	0.0003	0.0001
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0.000005	0.12	0.0314	7	0.000002	0.00009	0.0006	0.00129	0.0002	0.0003	0.0001
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0.000005	0.16	0.0298	6	0.000004	0.00001	0.0005	0.00102	0.0002	0.0004	0.0001
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0.000005	0.15	0.0327	6	0.000009	--	0.0005	0.00144	0.0002	0.0006	0.0001
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0.000005	0.13	0.026	5	0.000006	0.00001	0.0005	0.000944	0.0002	0.0006	0.0001
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0.000005	0.15	0.0272	10	0.000006	0.00001	0.0005	0.000695	0.0002	0.0003	0.0001
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0.000005	0.2	0.0244	5	0.000002	0.00002	0.0005	0.000648	0.0002	0.001	0.0001
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0.000005	0.11	0.0246	10	0.000028	0.00001	0.0005	0.000853	0.0002	0.0007	0.0001
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0.000005	0.15	0.0257	10	0.000005	0.00004	0.0005	0.000636	0.0002	0.0005	0.0001
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0.000005	0.15	0.025	10	0.000005	0.00001	0.0005	0.000556	0.0002	0.0003	0.0001
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0.000005	0.15	0.024	10	0.000007	0.00001	0.0005	0.000847	0.0002	0.0004	0.0001
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0.000011	0.11	0.021	10	0.000006	0.00001	0.0005	0.000482	0.0002	0.0003	0.0001
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0.000005	0.13	0.0233	10	0.000006	0.00116	0.0005	0.000482	0.0002	0.0001	0.0001
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Date	Cycle	Acidity (pH 8.3) mgCaCO3/kg/wk	Alkalinity mgCaCO3/kg/wk	Sulphate mg/kg/wk	Chloride mg/kg/wk	Fluoride mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk
2-Jul-09	0	0.82	11.27	51.21	1.50	0.0462	0.0092	0.0005	0.0007	0.0028	0.000004	0.000002	0.0193	0.000002	17.44	0.00004	0.00040	0.0005	0.0008
9-Jul-09	1	0.87	8.88	71.44	4.94	0.0646	0.0223	0.0026	0.0040	0.0025	0.000004	0.000002	0.0190	0.000021	24.62	0.00004	0.00028	0.0020	0.0046
16-Jul-09	2	1.02	8.53	29.26	0.49	0.0494	0.0308	0.0027	0.0029	0.0013	0.000004	0.000002	0.0190	0.000004	11.21	0.00004	0.00007	0.0005	0.0011
23-Jul-09	3	1.11	9.54	22.53	0.26	0.0553	0.0442	0.0013	0.0031	0.0009	0.000004	0.000002	0.0213	0.000008	9.14	0.00004	0.00003	0.0003	0.0009
30-Jul-09	4	1.86	9.61	15.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Aug-09	5	0.79	11.08	17.10	0.41	0.0405	0.0540	0.0013	0.0035	0.0007	0.000005	0.000002	0.0225	0.000002	8.19	0.00005	0.00002	0.0003	0.0027
13-Aug-09	6	2.09	10.82	11.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Aug-09	7	1.13	10.57	11.70	0.23	0.0270	0.0567	0.0013	0.0039	0.0005	0.000005	0.000005	0.0225	0.000003	6.75	0.00005	0.00002	0.0002	0.0027
27-Aug-09	8	1.25	10.67	8.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Sep-09	9	1.09	11.60	9.66	0.23	0.0230	0.0557	0.0013	0.0040	0.0006	0.000005	0.000002	0.0230	0.000003	6.81	0.00005	0.00002	0.0003	0.0023
10-Sep-09	10	0.52	9.89	10.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Sep-09	11	1.28	11.11	12.62	0.30	0.0305	0.0509	0.0011	0.0042	0.0007	0.000004	0.000002	0.0218	0.000005	7.66	0.00004	0.00003	0.0003	0.0026
24-Sep-09	12	0.99	11.37	14.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Oct-09	13	1.07	11.00	11.31	0.22	0.0174	0.0420	0.0008	0.0032	0.0008	0.000004	0.000002	0.0218	0.000002	7.00	0.00004	0.00003	0.0003	0.0044
8-Oct-09	14	1.73	11.33	10.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Oct-09	15	1.25	10.29	12.32	0.22	0.0176	0.0466	0.0008	0.0035	0.0006	0.000004	0.000002	0.0220	0.000005	6.95	0.00004	0.00003	0.0005	0.0026
22-Oct-09	16	1.35	9.77	7.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Oct-09	17	0.95	7.71	8.01	0.22	0.0134	0.0330	0.0006	0.0023	0.0004	0.000004	0.000002	0.0223	0.000002	4.72	0.00004	0.00002	0.0004	0.0031
5-Nov-09	18	1.88	9.70	7.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Nov-09	19	2.10	10.78	5.58	0.23	0.0140	0.0461	0.0006	0.0031	0.0005	0.000005	0.000002	0.0233	0.000003	5.21	0.00005	0.00002	0.0001	0.0028
19-Nov-09	20	2.07	10.53	6.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-Nov-09	21	0.86	13.09	8.28	0.23	0.0184	0.0511	0.0007	0.0037	0.0006	0.000005	0.000005	0.0230	0.000002	5.84	0.00005	0.00002	0.0001	0.0032
3-Dec-09	22	2.41	11.95	7.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Dec-09	23	2.32	8.34	9.87	0.24	0.0094	0.0320	0.0005	0.0020	0.0004	0.000005	0.000003	0.0235	0.000002	4.89	0.00005	0.00002	0.0001	0.0052
17-Dec-09	24	1.40	10.34	6.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-09	25	1.12	11.87	6.58	0.24	0.0094	0.0312	0.0006	0.0027	0.0005	0.000005	0.000002	0.0235	0.000002	5.59	0.00005	0.00002	0.0002	0.0024
31-Dec-09	26	1.26	11.24	7.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Jan-10	27	1.31	11.46	7.50	0.25	0.0150	0.0355	0.0006	0.0025	0.0005	0.000005	0.000003	0.0250	0.000003	5.90	0.00005	0.00003	0.0001	0.0050
14-Jan-10	28	--	10.52	7.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-10	29	1.09	11.63	7.50	0.25	0.0050	0.0339	0.0006	0.0026	0.0004	0.000005	0.000003	0.0250	0.000003	6.15	0.00005	0.00003	--	0.0020
28-Jan-10	30	1.97	10.66	8.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Feb-10	31	1.79	11.15	7.14	0.26	0.0102	0.0336	0.0006	0.0028	0.0004	0.000005	0.000003	0.0255	0.000003	6.43	0.00005	0.00002	0.0002	0.0020
11-Feb-10	32	1.46	10.05	7.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	33	1.76	7.85	7.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-10	34	1.61	7.58	7.20	--	0.0096	0.0234	0.0004	0.0018	0.0004	0.000005	0.000002	0.0240	0.000002	4.68	0.00005	0.00003	0.0003	0.0010
4-Mar-10	35	1.44	8.15	6.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-10	36	1.46	6.89	6.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	37	1.59	7.81	5.58	--	0.0093	0.0325	0.0004	0.0022	0.0004	0.000005	0.000002	0.0233	0.000002	4.70	0.00005	0.00002	0.0001	0.0028
25-Mar-10	38	1.52	7.03	5.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	39	1.29	6.49	7.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Apr-10	40	1.52	7.18	4.23	--	0.0094	0.0321	0.0003	0.0022	0.0008	0.000005	0.000002	0.0235	0.000002	4.33	0.00005	0.00002	0.0002	0.0033
15-Apr-10	41	1.70	8.27	7.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Apr-10	42	1.83	6.23	6.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Apr-10	43	1.18	8.31	7.21	--	0.0103	0.0214	0.0004	0.0019	0.0004	0.000005	0.000003	0.0258	0.000003	4.73	0.00005	0.00002	0.0002	0.0015
6-May-10	44	1.82	7.30	5.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-May-10	45	1.84	8.50	6.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-May-10	46	1.99	8.31	5.70	--	0.0048	0.0226	0.0004	0.0024	0.0004	0.000005	0.000002	0.0238	0.000002	4.85	0.00005	0.00001	0.0002	0.0014
27-May-10	47	3.00	11.39	3.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Jun-10	48	1.53	7.96	3.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Jun-10	49	2.21	11.20	3.84	--	0.0048	0.0300	0.0004	0.0029	0.0003	0.000005	0.000002	0.0240	0.000005	4.73	0.00010	0.00001	0.0002	0.0010
17-Jun-10	50	2.07	7.32	2.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Jun-10	51	1.37	8.19	5.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Jul-10	52	1.38	7.88	3.84	--	0.0336	0.0244	0.0003	0.0021	0.0004	0.000005	0.000002	0.0240	0.000002	4.23	0.00005	0.00002	0.0001	0.0010
8-Jul-10	53	1.14	6.65	4.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Jul-10	54	2.10	7.40	5.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Jul-10	55	2.22	8.06	2.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Jul-10	56	2.35	7.04	4.50	--	0.0050	0.0227	0.0003	0.0017	0.0004	0.000005	0.000003	0.0250	0.000003	3.38	0.00005	0.00004	0.0003	0.0015
5-Aug-10	57	1.25	6.39	3.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Aug-10	58	2.22	7.74	4.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Aug-10	59	2.65	7.50	3.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-Aug-10	60	1.35	6.69	4.10	--	0.0137	0.0215	0.0002	0.0015	0.0009	0.000005	0.000002	0.0228	0.000002	4.16	0.00005	0.00002	0.0005	0.0014
2-Sep-10	61	1.94	7.40	7.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9-Sep-10	62	2.29	6.44	4.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Sep-10	63	1.48	7.87	5.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Cell Terminated

Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.000009	0.0056	1.24	0.0198	0.000008	0.0007	0.00470	0.0027	3.54	0.0020	0.39	0.000002	1.84	0.0543	16.94	0.000007	0.000004	0.0002	0.0007	0.0001	0.00019	0.00004
0.000122	0.0042	2.11	0.0176	0.000008	0.0008	0.00180	0.0015	3.00	0.0043	0.53	0.000005	2.52	0.0684	26.98	0.000006	0.000004	0.0002	0.0007	0.0001	0.00144	0.00004
0.000065	0.0038	0.92	0.0083	0.000004	0.0010	0.00049	0.0008	2.19	0.0018	0.46	0.000002	1.25	0.0356	9.88	0.000005	0.000011	0.0002	0.0008	0.0001	0.00118	0.00004
0.000040	0.0028	0.54	0.0065	0.000004	0.0006	0.00017	0.0009	1.62	0.0008	0.49	0.000002	0.59	0.0288	6.38	0.000005	0.000004	0.0002	0.0004	0.0001	0.00026	0.00004
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0.000008	0.0021	0.45	0.0047	0.000005	0.0004	0.00016	0.0009	1.36	0.0006	0.53	0.000002	0.41	0.0239	5.40	0.000002	0.000005	0.0002	0.0004	0.0001	0.00018	0.00005
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0.000026	0.0019	0.38	0.0041	0.000005	0.0004	0.00013	0.0009	1.33	0.0004	0.60	0.000002	0.25	0.0185	3.60	0.000003	0.000005	0.0002	0.0004	0.0001	0.00036	0.00005
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0.000034	0.0017	0.36	0.0042	0.000005	0.0003	0.00011	0.0014	1.29	0.0004	0.60	0.000002	0.20	0.0190	4.14	0.000003	0.000009	0.0002	0.0005	0.0001	0.00018	0.00005
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0.000007	0.0021	0.40	0.0036	0.000004	0.0003	0.00011	0.0009	1.39	0.0004	0.67	0.000002	0.20	0.0220	4.79	0.000003	0.000035	0.0002	0.0005	0.0001	0.00048	0.00004
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0.000005	0.0016	0.35	0.0039	0.000004	0.0002	0.00013	0.0009	1.12	0.0003	0.53	0.000002	0.14	0.0190	4.35	0.000003	0.000004	0.0002	0.0004	0.0001	0.00026	0.00004
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0.000012	0.0015	0.32	0.0039	0.000004	0.0002	0.00014	0.0009	1.08	0.0003	0.51	0.000002	0.14	0.0183	4.40	0.000003	0.000009	0.0002	0.0005	0.0001	0.00035	0.00004
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0.000409	0.0012	0.22	0.0030	0.000004	0.0002	0.00016	0.0013	0.79	0.0002	0.36	0.000002	0.12	0.0142	3.12	0.000002	0.000040	0.0002	0.0004	0.0001	0.00036	0.00004
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0.000009	0.0013	0.24	0.0032	0.000005	0.0002	0.00009	0.0019	0.91	0.0002	0.47	0.000002	0.10	0.0146	2.79	0.000002	0.000009	0.0002	0.0004	0.0001	0.00019	0.00005
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0.000008	0.0015	0.27	0.0022	0.000005	0.0002	0.00011	0.0009	1.04	0.0002	0.56	0.000002	0.11	0.0161	3.22	0.000003	0.000014	0.0003	0.0004	0.0001	0.00032	0.00005
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0.000033	0.0011	0.21	0.0027	0.000005	0.0002	0.00007	0.0009	0.71	0.0002	0.45	0.000012	0.08	0.0127	1.88	0.000006	0.000009	0.0003	0.0004	0.0001	0.00009	0.00005
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0.000007	0.0012	0.22	0.0034	0.000005	0.0001	0.00011	0.0009	0.86	0.0002	0.49	0.000002	0.08	0.0147	2.82	0.000002	0.000005	0.0002	0.0005	0.0001	0.00014	0.00005
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0.000020	0.0012	0.24	0.0031	0.000005	0.0001	0.00010	0.0010	0.79	0.0002	0.50	0.000003	0.06	0.0157	3.50	0.000001	0.000045	0.0003	0.0006	0.0001	0.00015	0.00005
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0.000005	0.0011	0.23	0.0026	0.000005	0.0002	0.00010	0.0010	0.87	0.0002	0.45	0.000003	0.08	0.0149	3.00	0.000002	0.000005	0.0003	0.0005	0.0001	0.00020	0.00005
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0.000026	0.0012	0.23	0.0023	0.000005	0.0002	0.00013	0.0010	0.81	0.0002	0.52	0.000003	0.08	0.0167	3.06	0.000005	--	0.0003	0.0007	0.0001	0.00031	0.00005
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0.000024	0.0009	0.15	0.0027	0.000005	0.0001	0.00013	0.0010	0.56	0.0001	0.36	0.000002	0.06	0.0125	2.40	0.000003	0.000005	0.0002	0.0005	0.0001	0.00029	0.00005
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0.000010	0.0009	0.15	0.0022	0.000005	0.0001	0.00013	0.0009	0.60	0.0001	0.37	0.000002	0.07	0.0126	4.65	0.000003	0.000005	0.0002	0.0003	0.0001	0.00014	0.00005
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0.000009	0.0008	0.14	0.0015	0.000005	0.0001	0.00012	0.0009	0.61	0.0001	0.38	0.000002	0.09	0.0115	2.35	0.000001	0.000009	0.0002	0.0003	0.0001	0.00047	0.00005
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0.000028	0.0009	0.14	0.0020	0.000005	0.0001	0.00012	0.0010	0.57	0.0001	0.37	0.000003	0.06	0.0127	5.15	0.000014	0.000005	0.0003	0.0004	0.0001	0.00036	0.00005
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0.000006	0.0009	0.14	0.0018	0.000005	0.0000	0.00008	0.0010	0.69	0.0002	0.44	0.000002	0.07	0.0122	4.75	0.000002	0.000019	0.0002	0.0003	0.0001	0.00024	0.00005
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0.000008	0.0009	0.13	0.0016	0.000005	0.0001	0.00023	0.0010	0.72	0.0002	0.45	0.000002	0.07	0.0120	4.80	0.000002	0.000005	0.0002	0.0003	0.0001	0.00014	0.00005
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0.000011	0.0007	0.12	0.0020	0.000005	0.0000	0.00009	0.0010	0.58	0.0002	0.36	0.000002	0.07	0.0115	4.80	0.000003	0.000005	0.0002	0.0004	0.0001	0.00019	0.00005
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0.000036	0.0006	0.09	0.0024	0.000005	0.0001	0.00026	0.0010	0.44	0.0001	0.26	0.000006	0.06	0.0105	5.00	0.000003	0.000005	0.0003	0.0002	0.0001	0.00015	0.00005
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0.000002	0.0006	0.10	0.0019	0.000005	0.0001	0.00008	0.0009	0.48	0.0001	0.32	0.000002	0.06	0.0106	4.55	0.000003	0.000528	0.0002	0.0002	0.0001	0.00005	0.00005
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HC 2

Sample = DG07-305C 1.52-9.14

Sample Wt. (kg) 1

							Concentrations																														
Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Jul-09	0	750	390	7.05	274	765	7.93	62.89	386	6.2	0.2	387	0.0121	0.00041	0.00102	0.0292	0.00001	0.000005	0.05	0.000049	142	0.0001	0.036	0.00024	0.36	0.000007	0.0149	8.29	0.294	0.00001	0.00029	0.102	0.002	7.65	0.00814	1.18
9-Jul-09	1	500	385	7.53	326	582	2.86	27.31	284	20	0.4	277	0.0338	0.00075	0.0164	0.0154	0.00001	0.000005	0.05	0.000027	97.4	0.0001	0.0016	0.00801	0.004	0.00325	0.0084	8.31	0.0577	0.00005	0.00073	0.00859	0.007	6.1	0.0138	1.62
16-Jul-09	2	500	400	7.46	360	511	3.48	25.4	192	13	0.35	260	0.0394	0.00104	0.0231	0.0134	0.00001	0.000005	0.05	0.000029	91.4	0.0002	0.00193	0.00258	0.004	0.000083	0.0086	7.64	0.0598	0.00002	0.00061	0.00893	0.002	6.12	0.0107	1.91
23-Jul-09	3	500	440	7.43	380	408	3.33	21.61	165	0.5	0.35	182	0.0425	0.00062	0.0334	0.00935	0.00001	0.000005	0.05	0.000011	66.6	0.0001	0.000532	0.00175	0.003	0.000016	0.007	3.9	0.0335	0.00001	0.00027	0.00264	0.002	4.07	0.00754	1.89
30-Jul-09	4	500	430	7.29	366	320	4.97	21.88	112	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Aug-09	5	500	445	7.56	268	248	2.5	20.47	116	0.7	0.29	125	0.0519	0.00052	0.0319	0.00484	0.00001	0.000005	0.05	0.000005	46.1	0.0001	0.000222	0.00098	0.003	0.000016	0.0045	2.32	0.0184	0.00001	0.0002	0.00101	0.003	2.87	0.00452	1.67
13-Aug-09	6	500	450	7.38	331	250	5.07	16.3	109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Aug-09	7	500	475	7.28	351	218	3.13	15.32	80	0.5	0.28	107	0.0547	0.00054	0.0316	0.0044	0.00001	0.000011	0.05	0.000007	39.8	0.0001	0.000178	0.00059	0.007	0.000028	0.0043	1.89	0.0153	0.00001	0.00017	0.00083	0.002	2.63	0.0039	1.94
27-Aug-09	8	500	455	7.40	323	230	3.87	16.16	86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Sep-09	9	500	505	7.47	189	247	3.95	21.34	100	2.2	0.29	122	0.0593	0.00063	0.0422	0.00468	0.00001	0.000005	0.05	0.000005	45.8	0.0001	0.000159	0.00067	0.002	0.000028	0.0045	1.86	0.0141	0.00001	0.00019	0.00062	0.002	2.74	0.00374	2.5
10-Sep-09	10	500	500	7.71	342	246	1.51	21.67	100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Sep-09	11	500	490	7.53	347	242	3.68	20.74	95	0.7	0.29	111	0.0427	0.00067	0.0319	0.00464	0.00001	0.000005	0.05	0.000014	41.9	0.0001	0.000202	0.00074	0.003	0.000009	0.0041	1.58	0.0151	0.00001	0.00017	0.00087	0.002	2.34	0.00298	2.32
24-Sep-09	12	500	505	7.45	352	217	2.69	23.05	91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Oct-09	13	500	505	7.49	355	204	2.95	21.63	83	0.5	0.31	99.6	0.0474	0.00055	0.0348	0.00441	0.00001	0.000005	0.05	0.000009	37.7	0.0001	0.000173	0.00154	0.005	0.000016	0.0038	1.36	0.0128	0.00001	0.00019	0.00111	0.003	2.23	0.00211	2.23
8-Oct-09	14	500	490	7.44	341	197	4.61	23.86	79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Oct-09	15	500	500	7.46	354	158	3.05	20.07	67	0.5	0.3	77.6	0.0438	0.00056	0.0342	0.00365	0.00001	0.000005	0.05	0.000012	29.4	0.0001	0.000188	0.0012	0.004	0.000114	0.0036	1.01	0.0108	0.00001	0.00019	0.00065	0.002	2	0.00183	2.27
22-Oct-09	16	500	495	7.47	364	156	3.25	21.54	62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Oct-09	17	500	490	7.54	350	144	2.37	17.15	57	0.5	0.29	59.3	0.0331	0.00045	0.0271	0.00267	0.00001	0.000005	0.05	0.000005	22.5	0.0001	0.000145	0.00084	0.007	0.000011	0.0029	0.73	0.0095	0.00001	0.00016	0.00064	0.002	1.58	0.0013	1.71
5-Nov-09	18	500	515	7.57	343	137	4.78	20.53	46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Nov-09	19	500	490	7.38	340	125	4.91	20.82	42	0.5	0.31	54.4	0.0386	0.00046	0.0313	0.00238	0.00001	0.000005	0.05	0.000005	20.7	0.0001	0.000119	0.00023	0.004	0.00001	0.0027	0.68	0.0084	0.00001	0.00021	0.00046	0.002	1.51	0.00125	2.05
19-Nov-09	20	500	510	7.46	351	129	5.35	22.01	39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-Nov-09	21	500	505	7.66	311	126	2.51	24.77	45	0.5	0.33	52.1	0.0474	0.00048	0.0338	0.00231	0.00001	0.000007	0.05	0.000038	19.8	0.0001	0.000109	0.00033	0.007	0.00227	0.0027	0.62	0.0075	0.00001	0.00019	0.00041	0.002	1.44	0.00121	2.09
3-Dec-09	22	500	505	7.34	343	119	5.07	21.19	34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Dec-09	23	500	510	7.18	385	110	5.11	15.88	39	0.5	0.28	48.9	0.0329	0.00035	0.0258	0.00218	0.00001	0.000026	0.05	0.000005	18.6	0.0001	0.000129	0.00043	0.006	0.00001	0.0022	0.58	0.0076	0.00001	0.00015	0.00045	0.002	1.22	0.00099	1.76
17-Dec-09	24	500	505	7.48	364	113	2.93	21.25	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-09	25	500	500	7.44	373	97	2.92	20.26	28	0.5	0.28	45	0.0304	0.00042	0.0292	0.002	0.00001	0.000005	0.05	0.00002	17.2	0.0001	0.000105	0.00031	0.003	0.00145	0.0024	0.5	0.0071	0.00001	0.00012	0.0004	0.002	1.29	0.00112	1.91
31-Dec-09	26	500	500	7.39	394	92	2.58	15.24	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Jan-10	27	500	505	7.41	378	102	2.82	21.4	28	0.5	0.28	42.8	0.0448	0.00037	0.0303	0.00198	0.00001	0.000005	0.05	0.000005	16.3	0.0001	0.000112	0.00024	0.011	0.000022	0.0021	0.49	0.0071	0.00001	0.00013	0.00032	0.002	1.2	0.00104	1.97
14-Jan-10	28	500	505	7.17	353	97	--	17	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-10	29	500	505	7.31	361	93	2.89	16.61	28	0.5	--	44.8	0.0367	0.0004	0.0311	0.00199	0.00001	0.000005	0.05	0.000005	17.1	0.0001	0.000099	--	0.01	0.000005	0.0021	0.51	0.0068	0.00001	0.00007	0.00041	0.002	1.31	0.00117	1.95
28-Jan-10	30	500	515	7.17	361	78	4.34	15.14	30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Feb-10	31	500	510	7.01	282	79	3.99	15.06	22	0.5	0.26	39.3	0.0389	0.00033	0.0313	0.00176	0.00001	0.000008	0.05	0.000005	15	0.0001	0.000056	0.0015	0.004	0.000058	0.002	0.43	0.0054	0.00001	0.00012	0.00031	0.002	1.08	0.00101	1.78

Cell Terminated

HC 2
Sample = DG07-305C 1.52-9.14
Sample Wt. (kg) 1 **Loadings**

Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr	Date	Cycle	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			mgCaCO3/kg/wk	mgCaCO3/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.000005	6.6	0.362	119	0.000021	0.00001	0.0005	0.00256	0.0002	0.0014	0.0001	2-Jul-09	0	3.09	24.53	150.54	2.42	0.08	0.0047	0.0002	0.0004	0.0114	0.000004	0.000002	0.0195	0.000019	55.38	0.00004	0.01404	0.0001	0.1404
0.000013	9.29	0.233	104	0.000019	0.00002	0.0005	0.00102	0.0002	0.0031	0.0001	9-Jul-09	1	1.10	10.51	109.34	7.70	0.15	0.0130	0.0003	0.0063	0.0059	0.000004	0.000002	0.0193	0.000010	37.50	0.00004	0.00062	0.0031	0.0015
0.000005	6.12	0.218	93	0.000018	0.00001	0.0005	0.00128	0.0002	0.0021	0.0001	16-Jul-09	2	1.39	10.16	76.80	5.20	0.14	0.0158	0.0004	0.0092	0.0054	0.000004	0.000002	0.0200	0.000012	36.56	0.00008	0.00077	0.0010	0.0016
0.000005	2.82	0.168	57	0.00001	0.00001	0.0005	0.000635	0.0002	0.0008	0.0001	23-Jul-09	3	1.47	9.51	72.60	0.22	0.15	0.0187	0.0003	0.0147	0.0041	0.000004	0.000002	0.0220	0.000005	29.30	0.00004	0.00023	0.0008	0.0013
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0.000005	1.48	0.107	40	0.000006	0.00001	0.0005	0.000406	0.0002	0.0005	0.0001	6-Aug-09	5	1.11	9.11	51.62	0.31	0.13	0.0231	0.0002	0.0142	0.0022	0.000004	0.000002	0.0223	0.000002	20.51	0.00004	0.00010	0.0004	0.0013
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0.000005	1.03	0.0851	32	0.000007	0.00001	0.0005	0.000395	0.0002	0.0007	0.0001	20-Aug-09	7	1.49	7.28	38.00	0.24	0.13	0.0260	0.0003	0.0150	0.0021	0.000005	0.000005	0.0238	0.000003	18.91	0.00005	0.00008	0.0003	0.0033
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0.000005	0.76	0.0968	39	0.000006	0.00001	0.0005	0.000625	0.0002	0.0006	0.0001	3-Sep-09	9	1.99	10.78	50.50	1.11	0.15	0.0299	0.0003	0.0213	0.0024	0.000005	0.000003	0.0253	0.000003	23.13	0.00005	0.00008	0.0003	0.0010
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0.000005	0.6	0.0912	34	0.000007	0.00004	0.0005	0.000626	0.0002	0.0008	0.0001	17-Sep-09	11	1.80	10.16	46.55	0.34	0.14	0.0209	0.0003	0.0156	0.0023	0.000005	0.000002	0.0245	0.000007	20.53	0.00005	0.00010	0.0004	0.0015
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0.000011	0.55	0.0762	29	0.000006	0.00013	0.0005	0.000604	0.0002	0.0009	0.0001	1-Oct-09	13	1.49	10.92	41.92	0.25	0.16	0.0239	0.0003	0.0176	0.0022	0.000005	0.000003	0.0253	0.000005	19.04	0.00005	0.00009	0.0008	0.0025
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0.000005	0.43	0.0612	22	0.000006	0.00001	0.0005	0.000564	0.0002	0.0026	0.0001	15-Oct-09	15	1.53	10.04	33.50	0.25	0.15	0.0219	0.0003	0.0171	0.0018	0.000005	0.000003	0.0250	0.000006	14.70	0.00005	0.00009	0.0006	0.0020
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0.000005	0.35	0.0509	15	0.000005	0.00009	0.0005	0.000525	0.0002	0.0005	0.0001	29-Oct-09	17	1.16	8.40	27.93	0.25	0.14	0.0162	0.0002	0.0133	0.0013	0.000005	0.000002	0.0245	0.000002	11.03	0.00005	0.00007	0.0004	0.0034
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0.000005	0.29	0.0452	13	0.000003	0.00004	0.0005	0.000514	0.0002	0.0004	0.0001	12-Nov-09	19	2.41	10.20	20.58	0.25	0.15	0.0189	0.0002	0.0153	0.0012	0.000005	0.000002	0.0245	0.000002	10.14	0.00005	0.00006	0.0001	0.0020
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0.000005	0.28	0.0414	13	0.000005	0.00003	0.0005	0.000473	0.0002	0.0036	0.0001	26-Nov-09	21	1.27	12.51	22.73	0.25	0.17	0.0239	0.0002	0.0171	0.0012	0.000005	0.000004	0.0253	0.000019	10.00	0.00005	0.00006	0.0002	0.0035
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0.000007	0.19	0.037	12	0.000006	0.00001	0.0005	0.000478	0.0002	0.0006	0.0001	10-Dec-09	23	2.61	8.10	19.89	0.26	0.14	0.0168	0.0002	0.0132	0.0011	0.000005	0.000013	0.0255	0.000003	9.49	0.00005	0.00007	0.0002	0.0031
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0.000005	0.19	0.0354	10	0.000005	0.00001	0.0005	0.000436	0.0002	0.0023	0.0001	24-Dec-09	25	1.46	10.13	14.00	0.25	0.14	0.0152	0.0002	0.0146	0.0010	0.000005	0.000003	0.0250	0.000010	8.60	0.00005	0.00005	0.0002	0.0015
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0.000005	0.15	0.0327	11	0.000002	0.00007	0.0005	0.000446	0.0002	0.0003	0.0001	7-Jan-10	27	1.42	10.81	14.14	0.25	0.14	0.0226	0.0002	0.0153	0.0010	0.000005	0.000003	0.0253	0.000003	8.23	0.00005	0.00006	0.0001	0.0056
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0.000005	0.19	0.0324	10	0.000003	0.00001	0.0005	0.000438	0.0002	0.0004	0.0001	21-Jan-10	29	1.46	8.39	14.14	0.25	--	0.0185	0.0002	0.0157	0.0010	0.000005	0.000003	0.0253	0.000003	8.64	0.00005	0.00005	--	0.0051
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0.000005	0.21	0.0303	9	0.000005	0.00014	0.0005	0.00045	0.0002	0.0007	0.0001	4-Feb-10	31	2.03	7.68	11.22	0.26	0.13	0.0198	0.0002	0.0160	0.0009	0.000005	0.000004	0.0255	0.000003	7.65	0.00005	0.00003	0.0008	0.0020

Cell Terminated

Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.000003	0.0058	3.23	0.1147	0.000004	0.0001	0.03978	0.0008	2.98	0.0032	0.46	0.000002	2.57	0.14	46.41	0.000008	0.000004	0.0002	0.0010	0.0001	0.0005	0.00004
0.001251	0.0032	3.20	0.0222	0.000019	0.0003	0.00331	0.0027	2.35	0.0053	0.62	0.000005	3.58	0.09	40.04	0.000007	0.000008	0.0002	0.0004	0.0001	0.0012	0.00004
0.000033	0.0034	3.06	0.0239	0.000008	0.0002	0.00357	0.0008	2.45	0.0043	0.76	0.000002	2.45	0.09	37.20	0.000007	0.000004	0.0002	0.0005	0.0001	0.0008	0.00004
0.000007	0.0031	1.72	0.0147	0.000004	0.0001	0.00116	0.0009	1.79	0.0033	0.83	0.000002	1.24	0.07	25.08	0.000004	0.000004	0.0002	0.0003	0.0001	0.0004	0.00004
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0.000007	0.0020	1.03	0.0082	0.000004	0.0001	0.00045	0.0013	1.28	0.0020	0.74	0.000002	0.66	0.05	17.80	0.000003	0.000004	0.0002	0.0002	0.0001	0.0002	0.00004
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0.000013	0.0020	0.90	0.0073	0.000005	0.0001	0.00039	0.0010	1.25	0.0019	0.92	0.000002	0.49	0.04	15.20	0.000003	0.000005	0.0002	0.0002	0.0001	0.0003	0.00005
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0.000014	0.0023	0.94	0.0071	0.000005	0.0001	0.00031	0.0010	1.38	0.0019	1.26	0.000003	0.38	0.05	19.70	0.000003	0.000005	0.0003	0.0003	0.0001	0.0003	0.00005
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0.000004	0.0020	0.77	0.0074	0.000005	0.0001	0.00043	0.0010	1.15	0.0015	1.14	0.000002	0.29	0.04	16.66	0.000003	0.000020	0.0002	0.0003	0.0001	0.0004	0.00005
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0.000008	0.0019	0.69	0.0065	0.000005	0.0001	0.00056	0.0015	1.13	0.0011	1.13	0.000006	0.28	0.04	14.65	0.000003	0.000066	0.0003	0.0003	0.0001	0.0005	0.00005
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0.000057	0.0018	0.51	0.0054	0.000005	0.0001	0.00033	0.0010	1.00	0.0009	1.14	0.000003	0.22	0.03	11.00	0.000003	0.000005	0.0003	0.0003	0.0001	0.0013	0.00005
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0.000005	0.0014	0.36	0.0047	0.000005	0.0001	0.00031	0.0010	0.77	0.0006	0.84	0.000002	0.17	0.02	7.35	0.000002	0.000044	0.0002	0.0003	0.0001	0.0002	0.00005
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0.000005	0.0013	0.33	0.0041	0.000005	0.0001	0.00023	0.0010	0.74	0.0006	1.00	0.000002	0.14	0.02	6.37	0.000001	0.000020	0.0002	0.0003	0.0001	0.0002	0.00005
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0.001146	0.0014	0.31	0.0038	0.000005	0.0001	0.00021	0.0010	0.73	0.0006	1.06	0.000003	0.14	0.02	6.57	0.000003	0.000015	0.0003	0.0002	0.0001	0.0018	0.00005
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0.000005	0.0011	0.30	0.0039	0.000005	0.0001	0.00023	0.0010	0.62	0.0005	0.90	0.000004	0.10	0.02	6.12	0.000003	0.000005	0.0003	0.0002	0.0001	0.0003	0.00005
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0.000725	0.0012	0.25	0.0035	0.000005	0.0001	0.00020	0.0010	0.65	0.0006	0.96	0.000003	0.10	0.02	5.00	0.000003	0.000005	0.0003	0.0002	0.0001	0.0012	0.00005
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0.000011	0.0011	0.25	0.0036	0.000005	0.0001	0.00016	0.0010	0.61	0.0005	0.99	0.000003	0.08	0.02	5.56	0.000001	0.000035	0.0003	0.0002	0.0001	0.0002	0.00005
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0.000003	0.0011	0.26	0.0035	0.000005	0.0000	0.00021	0.0010	0.66	0.0006	0.98	0.000003	0.10	0.02	5.05	0.000002	0.000005	0.0003	0.0002	0.0001	0.0002	0.00005
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0.000030	0.0010	0.22	0.0028	0.000005	0.0001	0.00016	0.0010	0.55	0.0005	0.91	0.000003	0.11	0.02	4.59	0.000003	0.000071	0.0003	0.0002	0.0001	0.0004	0.00005

HC 3

Sample = DG07-305C 169.03-178.31

Sample Wt. (kg) 1

Concentrations

Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Jul-09	0	750	385	8.26	233	273	0.73	46.2	79	9.2	0.67	73.3	0.0695	0.0316	0.00541	0.0181	0.00001	0.000007	0.05	0.00001	24.1	0.0001	0.000059	0.00133	0.002	0.000036	0.0101	3.19	0.0052	0.00001	0.0233	0.00072	0.005	4.44	0.0091	1.29
9-Jul-09	1	500	395	7.94	304	243	1.59	34.67	86	7.6	0.68	58.8	0.1	0.063	0.00868	0.0107	0.00001	0.000008	0.05	0.000016	19	0.0001	0.000069	0.00117	0.003	0.00004	0.0072	2.75	0.0043	0.00001	0.0529	0.00063	0.004	3.12	0.0104	1.1
16-Jul-09	2	500	395	8.18	327	144	1.19	33.29	44	0.7	0.79	34.1	0.154	0.0877	0.00866	0.00645	0.00001	0.000011	0.05	0.00001	11.1	0.0004	0.000071	0.002	0.016	0.00011	0.0059	1.57	0.003	0.00001	0.0361	0.00057	0.004	2.53	0.00442	1.29
23-Jul-09	3	500	455	8.34	337	92	0.76	35.35	15	0.5	0.62	22.5	0.129	0.0763	0.00739	0.00443	0.00001	0.000008	0.05	0.000005	7.37	0.0001	0.000027	0.00102	0.003	0.000042	0.0048	1	0.0042	0.00001	0.0141	0.00018	0.002	1.96	0.002	1.08
30-Jul-09	4	500	430	7.88	336	78	3.1	31.1	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Aug-09	5	500	440	8.15	268	88	1.09	32.52	30	0.9	0.48	34.5	0.119	0.0664	0.00564	0.0049	0.00001	0.00001	0.05	0.000005	11.5	0.0001	0.000027	0.00093	0.011	0.000051	0.0043	1.43	0.0051	0.00001	0.00865	0.00022	0.003	2.07	0.00186	1.14
13-Aug-09	6	500	460	7.85	310	114	3.83	28.39	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Aug-09	7	500	475	7.73	342	124	2.13	25.37	40	0.5	0.38	54.9	0.104	0.058	0.00303	0.0083	0.00001	0.000023	0.05	0.000005	17.8	0.0001	0.000032	0.00071	0.004	0.000059	0.0052	2.52	0.0074	0.00001	0.00486	0.00024	0.002	2.45	0.00145	1.24
27-Aug-09	8	500	465	7.99	304	133	2.48	27.81	40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Sep-09	9	500	455	7.78	225	128	3.09	27.95	37	0.5	0.42	62.5	0.119	0.0522	0.0026	0.00823	0.00001	0.000011	0.05	0.000011	20.5	0.0001	0.000037	0.0007	0.003	0.00004	0.0051	2.74	0.0073	0.00001	0.00389	0.00028	0.004	2.46	0.00165	1.23
10-Sep-09	10	500	430	8.05	330	134	0.8	26.82	38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Sep-09	11	500	425	7.96	338	116	2.22	27.68	31	0.7	0.43	55.8	0.101	0.0422	0.00231	0.00697	0.00001	0.00001	0.05	0.000011	18.6	0.0001	0.00004	0.00133	0.003	0.000031	0.0042	2.29	0.0082	0.00001	0.00318	0.00025	0.002	1.96	0.00118	1.12
24-Sep-09	12	500	440	7.88	342	121	1.74	30.58	37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Oct-09	13	500	435	8.04	341	91	1.5	26.94	22	0.5	0.35	46.3	0.111	0.0332	0.00197	0.00506	0.00001	0.00001	0.05	0.000007	15.4	0.0001	0.000031	0.00081	0.007	0.00005	0.0031	1.91	0.0074	0.00001	0.00271	0.00024	0.005	1.65	0.00104	0.95
8-Oct-09	14	500	440	7.65	333	89	3.7	25.63	30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Oct-09	15	500	450	7.80	348	94	2.23	26.27	27	0.5	0.39	53	0.0861	0.0364	0.00155	0.00597	0.00001	0.00001	0.05	0.000012	17.8	0.0001	0.000114	0.00088	0.004	0.000366	0.0036	2.11	0.0089	0.00001	0.0028	0.00023	0.002	1.8	0.0011	0.99
22-Oct-09	16	500	460	7.68	348	78	2.52	23.32	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Oct-09	17	500	445	7.79	342	75	1.88	22.04	21	0.5	0.28	37.1	0.0732	0.0276	0.001	0.00404	0.00001	0.000009	0.05	0.000006	12.4	0.0001	0.000029	0.00072	0.006	0.000077	0.0025	1.46	0.0077	0.00001	0.00203	0.00027	0.003	1.24	0.00083	0.64
5-Nov-09	18	500	475	8.01	331	86	3.12	26.91	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Nov-09	19	500	465	7.73	329	90	3.84	27.32	20	0.5	0.34	43.1	0.0971	0.0351	0.0013	0.00434	0.00001	0.000008	0.05	0.000013	14.2	0.0001	0.000026	0.00034	0.003	0.000056	0.0028	1.86	0.0064	0.00001	0.00232	0.00022	0.004	1.42	0.0008	0.84
19-Nov-09	20	500	450	7.70	343	85	4.33	25.81	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-Nov-09	21	500	450	8.02	328	86	1.64	29.4	19	0.5	0.35	42.1	0.0979	0.0311	0.00128	0.00388	0.00001	0.000017	0.05	0.000005	14.1	0.0001	0.000026	0.00048	0.004	0.00004	0.0023	1.66	0.0068	0.00001	0.00206	0.00018	0.002	1.3	0.00082	0.82
3-Dec-09	22	500	465	7.62	341	84	4.25	26.22	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Dec-09	23	500	475	7.47	380	76	4.5	21.23	16	0.5	0.3	39.4	0.0674	0.0273	0.00092	0.00385	0.00001	0.000009	0.05	0.000005	13.2	0.0001	0.000044	0.00031	0.005	0.00003	0.0021	1.58	0.0072	0.00001	0.00188	0.00012	0.002	1.1	0.00064	0.72
17-Dec-09	24	500	485	7.67	361	81	2.65	24.89	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-09	25	500	490	7.88	369	103	2.08	35.65	21	0.5	0.55	58.9	0.072	0.0481	0.00173	0.00603	0.00001	0.000005	0.05	0.000007	19.9	0.0001	0.000046	0.00041	0.002	0.000435	0.0037	2.21	0.0084	0.00001	0.00249	0.00029	0.002	1.82	0.00115	1.39
31-Dec-09	26	500	500	7.78	390	65	2.05	24.85	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Jan-10	27	500	480	7.61	377	83	2.26	26.16	15	0.5	0.36	43	0.0706	0.0318	0.00132	0.00405	0.00001	0.000006	0.05	0.000007	14.5	0.0001	0.000037	0.00103	0.006	0.00014	0.0023	1.67	0.0095	0.00001	0.00161	0.00015	0.002	1.21	0.00076	0.88
14-Jan-10	28	500	480	7.46	349	79	--	23.15	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-10	29	500	485	7.55	361	79	2.38	26.01	15	0.5	0.41	45.7	0.0731	0.0356	0.00114	0.00417	0.00001	0.000005	0.05	0.000008	15.3	0.0001	0.000031	--	0.003	0.000019	0.0023	1.8	0.0083	0.00001	0.00165	0.00021	0.002	1.42	0.00083	0.95
28-Jan-10	30	500	500	7.37	358	64	3.94	24.38	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Feb-10	31	500	480	7.37	273	62	3.23	24.89	14	0.5	0.39	41	0.0639	0.031	0.00091	0.00406	0.00001	0.000005	0.05	0.000005	13.7	0.0001	0.000036	0.00077	0.003	0.000063	0.0023	1.63	0.0078	0.00001	0.00152	0.00025	0.002	1.22	0.00082	0.95
11-Feb-10	32	500	480	7.36	342	79	2.83	24.92	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	33	500	490	7.32	258	90	3.69	27.68	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-10	34	500	460	7.42	360	59	2.91	20.49	15	--	0.34	32.7	0.068	0.0225	0.00092	0.00332	0.00001	0.00001	0.05	0.000005	11.1	0.0001	0.000045	0.00038	0.001	0.000019	0.0019	1.19	0.0077	0.00001	0.001	0.00018	0.002	0.92	0.00075	0.79
4-Mar-10	35	500	475	7.35	364	69	2.69	17.86	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-10	36	500	475	7.34	385	69	3.01	20.41	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	37	500	485	7.27	363	67	3.3	17.31	11	--	0.28	30.4	0.0605	0.0174	0.00067	0.00314	0.00001	0.000005	0.05	0.000033	10.3	0.0001	0.00003	0.00032	0.003	0.000219	0.0016	1.16	0.0079	0.00001	0.00092	0.00023	0.002	0.86	0.00068	0.67
25-Mar-10	38	500	475	7.50	364	70	3.03	21.12	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	39	500	515	7.56	375	58	2.47	17.28	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Apr-10	40	500	485	7.43	359	70	2.66	21	14	--	0.29	33	0.061	0.0183	0.00067	0.00558	0.00001	0.000005	0.05	0.000005	11.1	0.0001	0.000038	0.00094	0.003	0.000023	0.0016	1.27	0.008	0.00001	0.00097	0.0002	0.002	0.9	0.00071	0.66

Cell Terminated

HC 3
Sample = DG07-305C 169.03-178.31
Sample Wt. (kg) 1 **Loadings**

Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
0.00002	28.1	1.03	27	0.000018	0.00001	0.0005	0.0302	0.0005	0.0008	0.0001
0.000005	28.6	0.734	29	0.000009	0.00001	0.0005	0.0514	0.0006	0.0004	0.0001
0.000005	18.5	0.455	15	0.000008	0.00003	0.0005	0.0498	0.0008	0.0007	0.0001
0.000005	9.6	0.293	5	0.000009	0.00001	0.0005	0.0345	0.0004	0.0004	0.0001
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0.000005	7.43	0.394	10	0.000007	0.00006	0.0006	0.0457	0.0004	0.0008	0.0001
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0.000005	5.26	0.643	13	0.00001	0.00001	0.0005	0.0648	0.0003	0.0006	0.0001
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0.000005	3.72	0.738	15	0.000009	0.00002	0.0005	0.0509	0.0003	0.0007	0.0001
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0.000005	2.44	0.632	11	0.000008	0.00009	0.0005	0.0324	0.0002	0.0006	0.0001
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0.000005	1.54	0.476	8	0.000007	0.00002	0.0005	0.0258	0.0002	0.0004	0.0001
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0.000005	1.32	0.564	10	0.000007	0.00002	0.0005	0.0332	0.0002	0.0008	0.0001
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0.000005	0.75	0.401	7	0.000007	0.00009	0.0005	0.0241	0.0002	0.0005	0.0001
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0.000005	0.79	0.471	7	0.000005	0.00002	0.0005	0.0263	0.0002	0.0006	0.0001
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0.000005	0.65	0.403	6	0.000006	0.00004	0.0005	0.0186	0.0002	0.0003	0.0001
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0.000007	0.48	0.382	6	0.000008	0.00002	0.0007	0.0235	0.0002	0.0004	0.0001
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0.000005	0.66	0.593	8	0.000009	0.00001	0.0005	0.0334	0.0002	0.0007	0.0001
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0.000005	0.4	0.402	6	0.000003	0.00009	0.0005	0.0241	0.0002	0.0011	0.0001
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0.000023	0.44	0.404	6	0.00001	0.00001	0.0005	0.0222	0.0002	0.0005	0.0001
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0.000005	0.4	0.408	6	0.000009	0.00016	0.0005	0.0219	0.0002	0.0006	0.0001
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0.000005	0.26	0.315	5	0.000008	0.00001	0.0005	0.0129	0.0002	0.0009	0.0001
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0.000005	0.24	0.294	10	0.000007	0.00001	0.0005	0.0119	0.0002	0.0028	0.0001
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0.000005	0.26	0.304	5	0.000004	0.00002	0.0005	0.0126	0.0002	0.0005	0.0001

Date	Cycle	Acidity (pH 8.3) mgCaCO3/kg/wk	Alkalinity mgCaCO3/kg/wk	Sulphate mg/kg/wk	Chloride mg/kg/wk	Fluoride mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk
2-Jul-09	0	0.28	17.79	30.42	3.54	0.26	0.0268	0.0122	0.0021	0.0070	0.000004	0.000003	0.0193	0.000004	9.28	0.00004	0.00002	0.0005	0.0008
9-Jul-09	1	0.63	13.69	33.97	3.00	0.27	0.0395	0.0249	0.0034	0.0042	0.000004	0.000003	0.0198	0.000006	7.51	0.00004	0.00003	0.0005	0.0012
16-Jul-09	2	0.47	13.15	17.38	0.28	0.31	0.0608	0.0346	0.0034	0.0025	0.000004	0.000004	0.0198	0.000004	4.38	0.00016	0.00003	0.0008	0.0063
23-Jul-09	3	0.35	16.08	6.83	0.23	0.28	0.0587	0.0347	0.0034	0.0020	0.000005	0.000004	0.0228	0.000002	3.35	0.00005	0.00001	0.0005	0.0014
30-Jul-09	4	1.33	13.37	3.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Aug-09	5	0.48	14.31	13.20	0.40	0.21	0.0524	0.0292	0.0025	0.0022	0.000004	0.000004	0.0220	0.000002	5.06	0.00004	0.00001	0.0004	0.0048
13-Aug-09	6	1.76	13.06	11.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Aug-09	7	1.01	12.05	19.00	0.24	0.18	0.0494	0.0276	0.0014	0.0039	0.000005	0.000011	0.0238	0.000002	8.46	0.00005	0.00002	0.0003	0.0019
27-Aug-09	8	1.15	12.93	18.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Sep-09	9	1.41	12.72	16.84	0.23	0.19	0.0541	0.0238	0.0012	0.0037	0.000005	0.000005	0.0228	0.000005	9.33	0.00005	0.00002	0.0003	0.0014
10-Sep-09	10	0.34	11.53	16.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Sep-09	11	0.94	11.76	13.18	0.30	0.18	0.0429	0.0179	0.0010	0.0030	0.000004	0.000004	0.0213	0.000005	7.91	0.00004	0.00002	0.0006	0.0013
24-Sep-09	12	0.77	13.46	16.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Oct-09	13	0.65	11.72	9.57	0.22	0.15	0.0483	0.0144	0.0009	0.0022	0.000004	0.000004	0.0218	0.000003	6.70	0.00004	0.00001	0.0004	0.0030
8-Oct-09	14	1.63	11.28	13.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Oct-09	15	1.00	11.82	12.15	0.23	0.18	0.0387	0.0164	0.0007	0.0027	0.000005	0.000005	0.0225	0.000005	8.01	0.00005	0.00005	0.0004	0.0018
22-Oct-09	16	1.16	10.73	8.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Oct-09	17	0.84	9.81	9.35	0.22	0.12	0.0326	0.0123	0.0004	0.0018	0.000004	0.000004	0.0223	0.000003	5.52	0.00004	0.00001	0.0003	0.0027
5-Nov-09	18	1.48	12.78	8.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Nov-09	19	1.79	12.70	9.30	0.23	0.16	0.0452	0.0163	0.0006	0.0020	0.000005	0.000004	0.0233	0.000006	6.60	0.00005	0.00001	0.0002	0.0014
19-Nov-09	20	1.95	11.61	7.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-Nov-09	21	0.74	13.23	8.55	0.23	0.16	0.0441	0.0140	0.0006	0.0017	0.000005	0.000008	0.0225	0.000002	6.35	0.00005	0.00001	0.0002	0.0018
3-Dec-09	22	1.98	12.19	8.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Dec-09	23	2.14	10.08	7.60	0.24	0.14	0.0320	0.0130	0.0004	0.0018	0.000005	0.000004	0.0238	0.000002	6.27	0.00005	0.00002	0.0001	0.0024
17-Dec-09	24	1.29	12.07	5.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-09	25	1.02	17.47	10.29	0.25	0.27	0.0353	0.0236	0.0008	0.0030	0.000005	0.000002	0.0245	0.000003	9.75	0.00005	0.00002	0.0002	0.0010
31-Dec-09	26	1.03	12.43	5.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Jan-10	27	1.08	12.56	7.20	0.24	0.17	0.0339	0.0153	0.0006	0.0019	0.000005	0.000003	0.0240	0.000003	6.96	0.00005	0.00002	0.0005	0.0029
14-Jan-10	28	--	11.11	7.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-10	29	1.15	12.61	7.28	0.24	0.20	0.0355	0.0173	0.0006	0.0020	0.000005	0.000002	0.0243	0.000004	7.42	0.00005	0.00002	--	0.0015
28-Jan-10	30	1.97	12.19	7.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Feb-10	31	1.55	11.95	6.72	0.24	0.19	0.0307	0.0149	0.0004	0.0019	0.000005	0.000002	0.0240	0.000002	6.58	0.00005	0.00002	0.0004	0.0014
11-Feb-10	32	1.36	11.96	7.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	33	1.81	13.56	8.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-10	34	1.34	9.43	6.90	--	0.16	0.0313	0.0104	0.0004	0.0015	0.000005	0.000005	0.0230	0.000002	5.11	0.00005	0.00002	0.0002	0.0005
4-Mar-10	35	1.28	8.48	7.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-10	36	1.43	9.69	7.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	37	1.60	8.40	5.34	--	0.14	0.0293	0.0084	0.0003	0.0015	0.000005	0.000002	0.0243	0.000016	5.00	0.00005	0.00001	0.0002	0.0015
25-Mar-10	38	1.44	10.03	7.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	39	1.27	8.90	7.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Apr-10	40	1.29	10.19	6.79	--	0.14	0.0296	0.0089	0.0003	0.0027	0.000005	0.000002	0.0243	0.000002	5.38	0.00005	0.00002	0.0005	0.0015

Cell Terminated

Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.00001	0.0039	1.23	0.0020	0.000004	0.0090	0.00028	0.0019	1.71	0.0035	0.50	0.000008	10.82	0.40	10.40	0.000007	0.000004	0.0002	0.0116	0.0002	0.0003	0.00004
0.00002	0.0028	1.09	0.0017	0.000004	0.0209	0.00025	0.0016	1.23	0.0041	0.43	0.000002	11.30	0.29	11.46	0.000004	0.000004	0.0002	0.0203	0.0002	0.0002	0.00004
0.00004	0.0023	0.62	0.0012	0.000004	0.0143	0.00023	0.0016	1.00	0.0017	0.51	0.000002	7.31	0.18	5.93	0.000003	0.000012	0.0002	0.0197	0.0003	0.0003	0.00004
0.00002	0.0022	0.46	0.0019	0.000005	0.0064	0.00008	0.0009	0.89	0.0009	0.49	0.000002	4.37	0.13	2.28	0.000004	0.000005	0.0002	0.0157	0.0002	0.0002	0.00005
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0.00002	0.0019	0.63	0.0023	0.000004	0.0038	0.00010	0.0013	0.91	0.0008	0.50	0.000002	3.27	0.17	4.40	0.000003	0.000026	0.0003	0.0201	0.0002	0.0004	0.00004
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0.00003	0.0025	1.20	0.0035	0.000005	0.0023	0.00011	0.0010	1.16	0.0007	0.59	0.000002	2.50	0.31	6.18	0.000005	0.000005	0.0002	0.0308	0.0001	0.0003	0.00005
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0.00002	0.0023	1.25	0.0033	0.000005	0.0018	0.00013	0.0018	1.12	0.0008	0.56	0.000002	1.69	0.34	6.83	0.000004	0.000009	0.0002	0.0232	0.0001	0.0003	0.00005
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0.00001	0.0018	0.97	0.0035	0.000004	0.0014	0.00011	0.0009	0.83	0.0005	0.48	0.000002	1.04	0.27	4.68	0.000003	0.000038	0.0002	0.0138	0.0001	0.0003	0.00004
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0.00002	0.0013	0.83	0.0032	0.000004	0.0012	0.00010	0.0022	0.72	0.0005	0.41	0.000002	0.67	0.21	3.48	0.000003	0.000009	0.0002	0.0112	0.0001	0.0002	0.00004
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0.00016	0.0016	0.95	0.0040	0.000005	0.0013	0.00010	0.0009	0.81	0.0005	0.45	0.000002	0.59	0.25	4.50	0.000003	0.000009	0.0002	0.0149	0.0001	0.0004	0.00005
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0.00003	0.0011	0.65	0.0034	0.000004	0.0009	0.00012	0.0013	0.55	0.0004	0.28	0.000002	0.33	0.18	3.12	0.000003	0.000040	0.0002	0.0107	0.0001	0.0002	0.00004
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0.00003	0.0013	0.86	0.0030	0.000005	0.0011	0.00010	0.0019	0.66	0.0004	0.39	0.000002	0.37	0.22	3.26	0.000002	0.000009	0.0002	0.0122	0.0001	0.0003	0.00005
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0.00002	0.0010	0.75	0.0031	0.000005	0.0009	0.00008	0.0009	0.59	0.0004	0.37	0.000002	0.29	0.18	2.70	0.000003	0.000018	0.0002	0.0084	0.0001	0.0001	0.00005
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0.00001	0.0010	0.75	0.0034	0.000005	0.0009	0.00006	0.0010	0.52	0.0003	0.34	0.000003	0.23	0.18	2.85	0.000004	0.000010	0.0003	0.0112	0.0001	0.0002	0.00005
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0.00021	0.0018	1.08	0.0041	0.000005	0.0012	0.00014	0.0010	0.89	0.0006	0.68	0.000002	0.32	0.29	3.92	0.000004	0.000005	0.0002	0.0164	0.0001	0.0003	0.00005
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0.00007	0.0011	0.80	0.0046	0.000005	0.0008	0.00007	0.0010	0.58	0.0004	0.42	0.000002	0.19	0.19	2.88	0.000001	0.000043	0.0002	0.0116	0.0001	0.0005	0.00005
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0.00001	0.0011	0.87	0.0040	0.000005	0.0008	0.00010	0.0010	0.69	0.0004	0.46	0.000011	0.21	0.20	2.91	0.000005	0.000005	0.0002	0.0108	0.0001	0.0002	0.00005
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0.00003	0.0011	0.78	0.0037	0.000005	0.0007	0.00012	0.0010	0.59	0.0004	0.45	0.000002	0.19	0.20	2.88	0.000004	0.000077	0.0002	0.0105	0.0001	0.0003	0.00005
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0.00001	0.0009	0.55	0.0035	0.000005	0.0005	0.00008	0.0009	0.42	0.0003	0.36	0.000002	0.12	0.14	2.30	0.000004	0.000005	0.0002	0.0059	0.0001	0.0004	0.00005
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0.00011	0.0008	0.56	0.0038	0.000005	0.0004	0.00011	0.0010	0.42	0.0003	0.32	0.000002	0.12	0.14	4.85	0.000003	0.000005	0.0002	0.0058	0.0001	0.0014	0.00005
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0.00001	0.0008	0.62	0.0039	0.000005	0.0005	0.00010	0.0010	0.44	0.0003	0.32	0.000002	0.13	0.15	2.43	0.000002	0.000010	0.0002	0.0061	0.0001	0.0002	0.00005

HC 4

Sample = DG07-305C 169.03-178.31

Sample Wt. (kg) 1

Concentrations

Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Jul-09	0	750	350	8.22	252	259	0.89	52.72	80	4.9	0.39	106	0.0355	0.0247	0.0374	0.0226	0.00001	0.000052	0.05	0.000007	35.7	0.0001	0.00033	0.00326	0.002	0.000056	0.0096	4.19	0.0053	0.00001	0.0146	0.00172	0.007	6.01	0.0117	1.46
9-Jul-09	1	500	435	7.93	306	305	2.01	40.8	113	5.6	0.52	134	0.0449	0.0615	0.0937	0.022	0.00001	0.000045	0.05	0.000014	45	0.0001	0.000306	0.00321	0.002	0.000163	0.0132	5.2	0.0051	0.00001	0.0295	0.00769	0.003	6.68	0.0181	2.25
16-Jul-09	2	500	395	8.03	329	179	2.04	42.19	55	1.1	0.62	72.6	0.0662	0.0869	0.125	0.0136	0.00001	0.000041	0.05	0.000012	23.7	0.0001	0.000195	0.00216	0.003	0.000125	0.0114	3.26	0.0037	0.00001	0.0296	0.0046	0.003	5.84	0.00939	2.33
23-Jul-09	3	500	455	8.12	346	134	1.58	42.09	28	0.5	0.42	49	0.0707	0.0791	0.111	0.0103	0.00001	0.000025	0.05	0.000014	16	0.0001	0.000074	0.00183	0.002	0.000118	0.0085	2.22	0.0042	0.00001	0.0148	0.0014	0.002	4.44	0.00585	2.14
30-Jul-09	4	500	450	7.98	343	117	4.12	39.03	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Aug-09	5	500	475	8.05	279	116	1.63	44.07	32	0.9	0.29	63.3	0.0636	0.0831	0.0953	0.0111	0.00001	0.000033	0.05	0.000007	20.9	0.0001	0.000068	0.00108	0.003	0.00652	0.0069	2.66	0.0053	0.00001	0.00812	0.00055	0.003	4.48	0.00486	2.1
13-Aug-09	6	500	465	7.78	317	157	4.53	46.27	34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Aug-09	7	500	480	7.81	345	163	2.39	39.77	45	2.3	0.24	83	0.065	0.104	0.0948	0.0165	0.00001	0.000032	0.05	0.000011	27.3	0.0001	0.000108	0.00068	0.004	0.000315	0.0073	3.62	0.0064	0.00001	0.00547	0.00088	0.002	5.07	0.00441	2.34
27-Aug-09	8	500	470	7.96	305	165	2.84	41.97	46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Sep-09	9	500	480	7.86	257	168	3.46	41.21	48	0.5	0.19	88.9	0.0625	0.117	0.0914	0.0161	0.00001	0.000041	0.05	0.000019	29.2	0.0001	0.000104	0.0008	0.002	0.000141	0.0066	3.89	0.007	0.00001	0.00425	0.00035	0.003	4.6	0.00475	2.41
10-Sep-09	10	500	440	8.04	331	152	0.9	36.8	41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Sep-09	11	500	465	7.94	340	174	2.62	41.94	46	0.5	0.16	92.3	0.069	0.101	0.0796	0.0146	0.00001	0.000032	0.05	0.000021	30.4	0.0001	0.000101	0.0018	0.004	0.000133	0.0062	3.96	0.0061	0.00001	0.00365	0.00036	0.002	3.88	0.00405	2.21
24-Sep-09	12	500	460	7.92	342	158	2.01	45.29	47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Oct-09	13	500	440	7.92	346	165	2.03	46.42	42	0.5	0.12	89.1	0.0545	0.0866	0.0628	0.014	0.00001	0.00002	0.05	0.000051	29.2	0.0001	0.000122	0.00125	0.003	0.000496	0.0053	3.95	0.0084	0.00001	0.00306	0.00039	0.002	3.43	0.00317	1.87
8-Oct-09	14	500	445	7.71	337	157	3.7	42.57	48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Oct-09	15	500	435	7.88	348	144	2.33	47.87	37	0.5	0.11	85.1	0.0574	0.0845	0.0718	0.012	0.00001	0.000025	0.05	0.000024	28	0.0001	0.000112	0.00186	0.003	0.000123	0.0051	3.67	0.0067	0.00001	0.00253	0.00028	0.002	3.19	0.00329	1.83
22-Oct-09	16	500	445	7.81	344	130	2.33	38.69	34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Oct-09	17	500	455	7.90	345	139	2.01	44.07	34	0.5	0.08	73.1	0.0544	0.0756	0.0551	0.0103	0.00001	0.000026	0.05	0.000012	24.3	0.0001	0.000093	0.00116	0.004	0.000137	0.0042	3.05	0.0072	0.00001	0.00218	0.00043	0.003	2.43	0.0027	1.42
5-Nov-09	18	500	480	7.90	336	125	3.77	43	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Nov-09	19	500	465	7.71	331	122	4.65	44.35	26	0.5	0.07	64.4	0.0646	0.0729	0.0534	0.00879	0.00001	0.000023	0.05	0.000011	21	0.0003	0.000091	0.00044	0.003	0.000134	0.0035	2.9	0.0066	0.00001	0.00188	0.00029	0.002	2.11	0.00246	1.5
19-Nov-09	20	500	470	7.72	345	118	4.69	39.6	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-Nov-09	21	500	460	7.97	345	130	2.23	49.17	26	0.5	0.08	70.6	0.0611	0.0768	0.0598	0.00904	0.00001	0.000031	0.05	0.000016	23.3	0.0001	0.00008	0.00057	0.002	0.00088	0.0035	3	0.006	0.00001	0.00179	0.00027	0.002	2.08	0.00271	1.6
3-Dec-09	22	500	470	7.69	345	132	4.72	51.95	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Dec-09	23	500	470	7.66	380	126	4.99	47.09	23	0.5	0.06	70.6	0.0651	0.0561	0.0466	0.00889	0.00001	0.000036	0.05	0.000005	23.3	0.0001	0.000112	0.00046	0.004	0.000142	0.0031	3.04	0.0062	0.00001	0.0015	0.00021	0.002	1.76	0.00206	1.36
17-Dec-09	24	500	490	7.88	361	143	2.67	53.72	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-09	25	500	475	7.89	368	124	2.35	49.41	26	0.5	0.05	78.6	0.0536	0.068	0.0531	0.00932	0.00001	0.000015	0.05	0.000006	26.4	0.0001	0.000107	0.00058	0.002	0.000135	0.0033	3.09	0.0076	0.00001	0.00143	0.00025	0.002	1.92	0.0025	1.47
31-Dec-09	26	500	465	7.85	392	135	2.44	46.68	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Jan-10	27	500	500	7.81	379	138	2.19	46.91	26	0.5	0.05	75.6	0.0528	0.0533	0.0429	0.00883	0.00001	0.000016	0.05	0.000006	25	0.0001	0.000099	0.00036	0.002	0.000072	0.0029	3.2	0.0076	0.00001	0.0013	0.00018	0.002	1.61	0.00214	1.33
14-Jan-10	28	500	485	7.63	349	140	--	50.27	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-10	29	500	475	7.77	361	120	2.48	43.94	21	0.5	0.05	71.4	0.0596	0.0531	0.045	0.00808	0.00001	0.000017	0.05	0.000009	23.6	0.0001	0.000085	--	0.003	0.000068	0.0026	3.02	0.0071	0.00001	0.00128	0.00023	0.002	1.58	0.00217	1.19
28-Jan-10	30	500	490	7.60	354	101	4.16	42.11	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Feb-10	31	500	470	7.59	271	96	3.51	46.07	18	0.5	0.05	63.8	0.0513	0.0485	0.0439	0.00776	0.00001	0.000016	0.05	0.000007	21	0.0001	0.000075	0.00099	0.003	0.000105	0.0026	2.76	0.0061	0.00001	0.00126	0.00029	0.002	1.34	0.0022	1.21
11-Feb-10	32	500	480	7.61	341	122	3.26	47.02	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	33	500	475	7.57	268	118	3.87	45.88	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-10	34	500	460	7.67	354	109	3.08	46.12	15	--	0.04	65.6	0.0567	0.0457	0.0537	0.00822	0.00001	0.000011	0.05	0.000005	21.6	0.0001	0.000154	0.00059	0.001	0.00007	0.0028	2.82	0.007	0.00001	0.00105	0.00029	0.002	1.35	0.00243	1.2
4-Mar-10	35	500	455	7.72	359	116	2.87	43.84	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-10	36	500	475	7.64	378	108	3.07	43.06	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	37	500	475	7.52	368	107	3.7	38.16	15	--	0.03	50.5	0.0479	0.0305	0.0297	0.00627	0.00001	0.000014	0.05	0.000013	16.5	0.0001	0.000074	0.00047	0.002	0.000146	0.002	2.23	0.0067	0.00001	0.00083	0.00024	0.002	0.94	0.0018	0.85
25-Mar-10	38	500	475	7.69	363	105	3.25	38.11	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	39	500	445	7.77	375	116	2.45	45.26	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Apr-10	40	500	470	7.68	356	108	2.57	39.3	19	--	0.04	56.2	0.0524	0.0323	0.0358	0.0126	0.00001	0.000011	0.05	0.00001	18.4	0.0001	0.000079	0.00064	0.002	0.000067	0.0022	2.51	0.0068	0.00001	0.00079	0.00021	0.002	1.07	0.00199	0.91
15-Apr-10	41	500	490	7.61	319	133	4.02	49.3	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Apr-10	42	500	490	7.63	351	119	4.35	40.4	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Apr-10	43	500	495	7.75	355	136	2.41	50.43	25	--	0.06	72.3	0.046	0.0415	0.0409	0.00828	0.00001	0.000011	0.05	0.000012	24.2	0.0001	0.000081	0.00059	0.005	0.000067	0.0028	2.9	0.0072	0.00001	0.00099	0.00025	0.002	1.19	0.00244	1.12
6-May-10	44	500	460	7.58	317	123	4.93	47.49	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-May-10	45	500	475	7.55	316	101	3.56	30.84	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-May-10	46	500	465	7.65	358	110	4.14	35.27	22	--	0.03	56.9	0.0669	0.0256	0.0451	0.00646	0.00001	0.00001	0.05	0.000037	18.7	0.0001	0.000054	0.00047	0.002	0.000674	0.0022	2.45	0.0054	0.00001	0.0008	0.00026	0.002	0.97	0.00233	0.92
27-May-10	47	500	475	7.58	377	100	5.81	34.16	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Jun-10	48	500	465	7.62	362	119	3.42	36.77	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Jun-10	49	500	470	7.53	292	118	5.33	39.66	19	--	0.03	50.2	0.0553	0.0292	0.0466	0.00682	0.00001	0.000008	0.05	0.000006	15.6	0.0001	0.000047	0.00038	0.002	0.00004	0.0026	2.73	0.0054	0.00001	0.00074	0.00019	0.002	1.1	0.0027	0.65
17-Jun-10	50	500	455	7.63	338	113	4.13	36.67	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Jun-10	51	500	470	7.75	407	119	2.81	38.78	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Jul-10	52	500	470	7.72	414	120	2.86	41.78	18	--	0.05	53.9	0.0506	0.025	0.0398	0.006	0.00001	0.000005	0.05	0.000005	17	0.0001	0.000052	0.00039	0.001	0.000057	0.0022	2.75	0.0065	0.00001	0.0007	0.00014	0.002	0.98	0.00229	0.82
8-Jul-10	53	500	480	7.68	308	117	2.43	41.5	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Jul-10	54	500	480	7.53	341	114	4.22	37.72	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Jul-10	55	500	490	7.51	364	116	4.19	39.06	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Jul-10	56	500	490	7.55	342	114	4.8	38.83	21	--	0.03	55.5	0.0624	0.0211	0.0377	0.00618	0.00001	0.000009	0.05	0.000006	17.7	0.0001	0.000062	0.00046	0.003	0.00004	0.0021	2.78	0.005	0.00001	0.00057	0.00019	0.002	0.87	0.00207	0.77
5-Aug-10	57	500	480	7.75	272	117	2.7	41.52	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Aug-10	58	500	480	7.63	396	123	5.19	42.32	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Aug-10	59	500	465	7.59	360	117	5.67	40.84	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-Aug-10	60	500	480	7.61	364	116	3.13	41.84	19	--	0.05	57.5	0.055	0.0204	0.0374	0.007	0.00001	0.000006	0.05	0.000008	18.2	0.0001	0.000048	0.0007	0.003	0.00004	0.0023	2.93	0.0046	0.00001	0.00053	0.00022	0.002	0.89	0.00205	0.75
2-Sep-10	61	500	465	7.59	305	113	4.46	46.68	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9-Sep-10	62	500	490	7.39	376	129	6	45.54	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Sep-10	63	500	485	7.53	367	110	3.59	41.48	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Cell Terminated

HC 4
Sample = DG07-305C 169.03-178.31
Sample Wt. (kg) 1 **Loadings**

Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L	Date	Cycle	Acidity (pH 8.3) mgCaCO3/kg/wk	Alkalinity mgCaCO3/kg/wk	Sulphate mg/kg/wk	Chloride mg/kg/wk	Fluoride mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk
0.000005	10.6	1.11	23	0.000224	0.00001	0.0005	0.0232	0.0003	0.0003	0.0001	2-Jul-09	0	0.31	18.45	28.00	1.72	0.14	0.0124	0.0086	0.0131	0.0079	0.000004	0.000018	0.0175	0.000002	12.50	0.00004	0.00012	0.0011	0.0007
0.000005	14.2	1.34	37	0.000236	0.00002	0.0005	0.0437	0.0005	0.0007	0.0001	9-Jul-09	1	0.87	17.75	49.16	2.44	0.23	0.0195	0.0268	0.0408	0.0096	0.000004	0.000020	0.0218	0.000006	19.58	0.00004	0.00013	0.0014	0.0009
0.000005	10.4	0.78	19	0.000226	0.00005	0.0005	0.0521	0.0007	0.001	0.0001	16-Jul-09	2	0.81	16.67	21.73	0.43	0.24	0.0261	0.0343	0.0494	0.0054	0.000004	0.000016	0.0198	0.000005	9.36	0.00004	0.00008	0.0009	0.0012
0.000005	5.28	0.57	9	0.000197	0.00001	0.0005	0.0393	0.0005	0.0007	0.0001	23-Jul-09	3	0.72	19.15	12.74	0.23	0.19	0.0322	0.0360	0.0505	0.0047	0.000005	0.000011	0.0228	0.000006	7.28	0.00005	0.00003	0.0008	0.0009
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0.000005	2.98	0.622	11	0.000215	0.00001	0.0005	0.0491	0.0005	0.0004	0.0001	6-Aug-09	5	0.77	20.93	15.20	0.43	0.14	0.0302	0.0395	0.0453	0.0053	0.000005	0.000016	0.0238	0.000003	9.93	0.00005	0.00003	0.0005	0.0014
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0.000005	1.76	0.848	16	0.000281	0.00002	0.0005	0.0478	0.0005	0.0026	0.0001	20-Aug-09	7	1.15	19.09	21.60	1.10	0.12	0.0312	0.0499	0.0455	0.0079	0.000005	0.000015	0.0240	0.000005	13.10	0.00005	0.00005	0.0003	0.0019
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0.000005	1.05	0.903	17	0.000293	0.00001	0.0005	0.0412	0.0004	0.0006	0.0001	3-Sep-09	9	1.66	19.78	23.04	0.24	0.09	0.0300	0.0562	0.0439	0.0077	0.000005	0.000020	0.0240	0.000009	14.02	0.00005	0.00005	0.0004	0.0010
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0.000005	0.81	0.935	16	0.00028	0.00009	0.0005	0.0368	0.0003	0.0012	0.0001	17-Sep-09	11	1.22	19.50	21.39	0.23	0.07	0.0321	0.0470	0.0370	0.0068	0.000005	0.000015	0.0233	0.000010	14.14	0.00005	0.00005	0.0008	0.0019
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0.000005	0.62	0.875	16	0.000236	0.00001	0.0005	0.0345	0.0002	0.0028	0.0001	1-Oct-09	13	0.89	20.42	18.48	0.22	0.05	0.0240	0.0381	0.0276	0.0062	0.000004	0.000009	0.0220	0.000022	12.85	0.00004	0.00005	0.0006	0.0013
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0.000005	0.56	0.79	13	0.000216	0.00001	0.0005	0.0293	0.0002	0.0016	0.0001	15-Oct-09	15	1.01	20.82	16.10	0.22	0.05	0.0250	0.0368	0.0312	0.0052	0.000004	0.000011	0.0218	0.000010	12.18	0.00004	0.00005	0.0008	0.0013
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0.000005	0.44	0.724	11	0.000196	0.00006	0.0005	0.0295	0.0002	0.0009	0.0001	29-Oct-09	17	0.91	20.05	15.47	0.23	0.04	0.0248	0.0344	0.0251	0.0047	0.000005	0.000012	0.0228	0.000005	11.06	0.00005	0.00004	0.0005	0.0018
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0.000005	0.37	0.625	8	0.000195	0.00002	0.0005	0.0251	0.0002	0.001	0.0001	12-Nov-09	19	2.16	20.62	12.09	0.23	0.03	0.0300	0.0339	0.0248	0.0041	0.000005	0.000011	0.0233	0.000005	9.77	0.00014	0.00004	0.0002	0.0014
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0.000005	0.35	0.632	9	0.000205	0.00002	0.0005	0.0221	0.0002	0.0014	0.0001	26-Nov-09	21	1.03	22.62	11.96	0.23	0.04	0.0281	0.0353	0.0275	0.0042	0.000005	0.000014	0.0230	0.000007	10.72	0.00005	0.00004	0.0003	0.0009
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0.000005	0.25	0.624	9	0.000171	0.00001	0.0005	0.0261	0.0002	0.0008	0.0001	10-Dec-09	23	2.35	22.13	10.81	0.24	0.03	0.0306	0.0264	0.0219	0.0042	0.000005	0.000017	0.0235	0.000002	10.95	0.00005	0.00005	0.0002	0.0019
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0.000005	0.24	0.673	10	0.000202	0.00001	0.0005	0.0234	0.0002	0.0008	0.0001	24-Dec-09	25	1.12	23.47	12.35	0.24	0.02	0.0255	0.0323	0.0252	0.0044	0.000005	0.000007	0.0238	0.000003	12.54	0.00005	0.00005	0.0003	0.0010
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0.000005	0.21	0.65	10	0.000169	0.00008	0.0005	0.0213	0.0002	0.0005	0.0001	7-Jan-10	27	1.10	23.46	13.00	0.25	0.03	0.0264	0.0267	0.0215	0.0044	0.000005	0.000008	0.0250	0.000003	12.50	0.00005	0.00005	0.0002	0.0010
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0.000011	0.22	0.576	9	0.000175	0.00001	0.0005	0.0171	0.0002	0.0008	0.0001	21-Jan-10	29	1.18	20.87	9.98	0.24	0.02	0.0283	0.0252	0.0214	0.0038	0.000005	0.000008	0.0238	0.000004	11.21	0.00005	0.00004	--	0.0014
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0.000005	0.24	0.575	7	0.000169	0.00017	0.0005	0.0162	0.0002	0.0007	0.0001	4-Feb-10	31	1.65	21.65	8.46	0.24	0.02	0.0241	0.0228	0.0206	0.0036	0.000005	0.000008	0.0235	0.000003	9.87	0.00005	0.00004	0.0005	0.0014
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0.000005	0.22	0.565	8	0.000178	0.00001	0.0005	0.0132	0.0002	0.0011	0.0001	25-Feb-10	34	1.42	21.22	6.90	--	0.02	0.0261	0.0210	0.0247	0.0038	0.000005	0.000005	0.0230	0.000002	9.94	0.00005	0.00007	0.0003	0.0005
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0.000005	0.17	0.454	10	0.00014	0.00001	0.0005	0.0117	0.0002	0.0008	0.0001	18-Mar-10	37	1.76	18.13	7.13	--	0.01	0.0228	0.0145	0.0141	0.0030	0.000005	0.000007	0.0238	0.000006	7.84	0.00005	0.00004	0.0002	0.0010
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0.000005	0.2	0.455	7	0.000131	0.00002	0.0005	0.00997	0.0002	0.0008	0.0001	8-Apr-10	40	1.21	18.47	8.93	--	0.02	0.0246	0.0152	0.0168	0.0059	0.000005	0.000005	0.0235	0.000005	8.65	0.00005	0.00004	0.0003	0.0009
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0.000005	0.2	0.597	10	0.000176	0.00001	0.0005	0.0136	0.0002	0.0008	0.0001	29-Apr-10	43	1.19	24.96	12.38	--	0.03	0.0228	0.0205	0.0202	0.0041	0.000005	0.000005	0.0248	0.000006	11.98	0.00005	0.00004	0.0003	0.0025
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0.000005	0.2	0.436	10	0.000156	0.00004	0.0005	0.00581	0.0002	0.003	0.0001	20-May-10	46	1.93	16.40	10.23	--	0.01	0.0311	0.0119	0.0210	0.0030	0.000005	0.000005	0.0233	0.000017	8.70	0.00005	0.00003	0.0002	0.0009
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0.000005	0.22	0.475	10	0.000182	0.00002	0.0005	0.00662	0.0002	0.0006	0.0001	10-Jun-10	49	2.51	18.64	8.93	--	0.01	0.0260	0.0137	0.0219	0.0032	0.000005	0.000004	0.0235	0.000003	7.33	0.00005	0.00002	0.0002	0.0009
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0.000005	0.18	0.458	10	0.000172	0.00002	0.0005	0.00689	0.0002	0.0005	0.0001	1-Jul-10	52	1.34	19.64	8.46	--	0.02	0.0238	0.0118	0.0187	0.0028	0.000005	0.000002	0.0235	0.000002	7.99	0.00005	0.00002	0.0002	0.0005
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0.000008	0.18	0.435	10	0.00016	0.00001	0.0005	0.00585	0.0002	0.0004	0.0001	29-Jul-10	56	2.35	19.03	10.29	--	0.01	0.0306	0.0103	0.0185	0.0030	0.000005	0.000004	0.0245	0.000003	8.67	0.00005	0.00003	0.0002	0.0015
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0.000005	0.19	0.426	10	0.00018	0.00044	0.0005	0.00482	0.0002	0.0004	0.0001	26-Aug-10	60	1.50	20.08	9.12	--	0.02	0.0264	0.0098	0.0180	0.0034	0.000005	0.000003	0.0240	0.000004	8.74	0.00005	0.00002	0.0003	0.0014
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Cell Terminated

Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.00002	0.0034	1.47	0.0019	0.000004	0.0051	0.00060	0.0025	2.10	0.0041	0.51	0.000002	3.71	0.39	8.05	0.0001	0.000004	0.0002	0.0081	0.0001	0.0001	0.00004
0.00007	0.0057	2.26	0.0022	0.000004	0.0128	0.00335	0.0013	2.91	0.0079	0.98	0.000002	6.18	0.58	16.10	0.0001	0.000009	0.0002	0.0190	0.0002	0.0003	0.00004
0.00005	0.0045	1.29	0.0015	0.000004	0.0117	0.00182	0.0012	2.31	0.0037	0.92	0.000002	4.11	0.31	7.51	0.0001	0.000020	0.0002	0.0206	0.0003	0.0004	0.00004
0.00005	0.0039	1.01	0.0019	0.000005	0.0067	0.00064	0.0009	2.02	0.0027	0.97	0.000002	2.40	0.26	4.10	0.0001	0.000005	0.0002	0.0179	0.0002	0.0003	0.00005
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0.00310	0.0033	1.26	0.0025	0.000005	0.0039	0.00026	0.0014	2.13	0.0023	1.00	0.000002	1.42	0.30	5.23	0.0001	0.000005	0.0002	0.0233	0.0002	0.0002	0.00005
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0.00015	0.0035	1.74	0.0031	0.000005	0.0026	0.00042	0.0010	2.43	0.0021	1.12	0.000002	0.84	0.41	7.68	0.0001	0.000010	0.0002	0.0229	0.0002	0.0012	0.00005
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0.00007	0.0032	1.87	0.0034	0.000005	0.0020	0.00017	0.0014	2.21	0.0023	1.16	0.000002	0.50	0.43	8.16	0.0001	0.000005	0.0002	0.0198	0.0002	0.0003	0.00005
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0.00006	0.0029	1.84	0.0028	0.000005	0.0017	0.00017	0.0009	1.80	0.0019	1.03	0.000002	0.38	0.43	7.44	0.0001	0.000042	0.0002	0.0171	0.0001	0.0006	0.00005
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0.00022	0.0023	1.74	0.0037	0.000004	0.0013	0.00017	0.0009	1.51	0.0014	0.82	0.000002	0.27	0.39	7.04	0.0001	0.000004	0.0002	0.0152	0.0001	0.0012	0.00004
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0.00005	0.0022	1.60	0.0029	0.000004	0.0011	0.00012	0.0009	1.39	0.0014	0.80	0.000002	0.24	0.34	5.66	0.0001	0.000004	0.0002	0.0127	0.0001	0.0007	0.00004
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0.00006	0.0019	1.39	0.0033	0.000005	0.0010	0.00020	0.0014	1.11	0.0012	0.65	0.000002	0.20	0.33	5.01	0.0001	0.000027	0.0002	0.0134	0.0001	0.0004	0.00005
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0.00006	0.0016	1.35	0.0031	0.000005	0.0009	0.00013	0.0009	0.98	0.0011	0.70	0.000002	0.17	0.29	3.72	0.0001	0.000009	0.0002	0.0117	0.0001	0.0005	0.00005
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0.00040	0.0016	1.38	0.0028	0.000005	0.0008	0.00012	0.0009	0.96	0.0012	0.74	0.000002	0.16	0.29	4.14	0.0001	0.000009	0.0002	0.0102	0.0001	0.0006	0.00005
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0.00007	0.0015	1.43	0.0029	0.000005	0.0007	0.00010	0.0009	0.83	0.0010	0.64	0.000002	0.12	0.29	4.23	0.0001	0.000005	0.0002	0.0123	0.0001	0.0004	0.00005
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0.00006	0.0016	1.47	0.0036	0.000005	0.0007	0.00012	0.0010	0.91	0.0012	0.70	0.000002	0.11	0.32	4.75	0.0001	0.000005	0.0002	0.0111	0.0001	0.0004	0.00005
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0.00004	0.0015	1.60	0.0038	0.000005	0.0007	0.00009	0.0010	0.81	0.0011	0.67	0.000003	0.11	0.33	5.00	0.0001	0.000040	0.0003	0.0107	0.0001	0.0003	0.00005
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0.00003	0.0012	1.43	0.0034	0.000005	0.0006	0.00011	0.0010	0.75	0.0010	0.57	0.000005	0.10	0.27	4.28	0.0001	0.000005	0.0002	0.0081	0.0001	0.0004	0.00005
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0.00005	0.0012	1.30	0.0029	0.000005	0.0006	0.00014	0.0009	0.63	0.0010	0.57	0.000002	0.11	0.27	3.29	0.0001	0.000080	0.0002	0.0076	0.0001	0.0003	0.00005
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0.00003	0.0013	1.30	0.0032	0.000005	0.0005	0.00013	0.0009	0.62	0.0011	0.55	0.000002	0.10	0.26	3.68	0.0001	0.000005	0.0002	0.0061	0.0001	0.0005	0.00005
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0.00007	0.0010	1.06	0.0032	0.000005	0.0004	0.00011	0.0010	0.45	0.0009	0.40	0.000002	0.08	0.22	4.75	0.0001	0.000005	0.0002	0.0056	0.0001	0.0004	0.00005
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0.00003	0.0010	1.18	0.0032	0.000005	0.0004	0.00010	0.0009	0.50	0.0009	0.43	0.000002	0.09	0.21	3.29	0.0001	0.000009	0.0002	0.0047	0.0001	0.0004	0.00005
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0.00003	0.0014	1.44	0.0036	0.000005	0.0005	0.00012	0.0010	0.59	0.0012	0.55	0.000002	0.10	0.30	4.95	0.0001	0.000005	0.0002	0.0067	0.0001	0.0004	0.00005
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0.00031	0.0010	1.14	0.0025	0.000005	0.0004	0.00012	0.0009	0.45	0.0011	0.43	0.000002	0.09	0.20	4.65	0.0001	0.000019	0.0002	0.0027	0.0001	0.0014	0.00005
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0.00002	0.0012	1.28	0.0026	0.000005	0.0003	0.00009	0.0009	0.52	0.0013	0.31	0.000002	0.10	0.22	4.70	0.0001	0.000009	0.0002	0.0031	0.0001	0.0003	0.00005
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0.00003	0.0010	1.29	0.0030	0.000005	0.0003	0.00007	0.0009	0.46	0.0011	0.38	0.000002	0.08	0.22	4.70	0.0001	0.000009	0.0002	0.0032	0.0001	0.0002	0.00005
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0.00002	0.0010	1.36	0.0024	0.000005	0.0003	0.00009	0.0010	0.43	0.0010	0.38	0.000004	0.09	0.21	4.90	0.0001	0.000005	0.0002	0.0029	0.0001	0.0002	0.00005
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0.00002	0.0011	1.41	0.0022	0.000005	0.0003	0.00011	0.0010	0.43	0.0010	0.36	0.000002	0.09	0.20	4.80	0.0001	0.000211	0.0002	0.0023	0.0001	0.0002	0.00005
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HC 5

Sample = DG07-335C 103.02-113.69

Sample Wt. (kg) 1

Concentrations

Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Jul-09	0	750	395	7.76	279	575	2.94	43.05	278	7	0.1	274	0.016	0.00026	0.0023	0.0366	0.00001	0.000005	0.05	0.000018	101	0.0001	0.00298	0.00061	0.001	0.00001	0.0221	5.21	0.131	0.00001	0.00155	0.00717	0.004	8.78	0.00544	1.39
9-Jul-09	1	500	425	7.59	312	402	2.42	26.62	185	15	0.09	191	0.0372	0.00024	0.00972	0.0176	0.00001	0.000005	0.05	0.000013	69.4	0.0001	0.000377	0.00087	0.002	0.00001	0.0138	4.37	0.0507	0.00002	0.00225	0.00084	0.002	9.3	0.00747	1.45
16-Jul-09	2	500	405	7.49	339	354	3.24	24.4	152	2.3	0.11	181	0.0481	0.00028	0.0115	0.0165	0.00001	0.000005	0.05	0.000018	66.3	0.0001	0.000316	0.0022	0.005	0.000068	0.0147	3.67	0.0442	0.00001	0.00238	0.00079	0.002	8.61	0.00545	1.63
23-Jul-09	3	500	450	7.58	354	267	2.88	26.47	113	0.5	0.08	108	0.0615	0.00022	0.0121	0.0119	0.00001	0.000005	0.05	0.000005	40.3	0.0001	0.000164	0.00138	0.002	0.000009	0.0115	1.79	0.0292	0.00001	0.00159	0.00033	0.002	7.41	0.00208	1.54
30-Jul-09	4	500	440	7.47	350	207	4.68	25.57	71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Aug-09	5	500	460	7.71	296	201	2.2	27.48	93	1	0.08	95.2	0.0592	0.00018	0.0121	0.0106	0.00001	0.000005	0.05	0.000006	35.6	0.0001	0.000098	0.00125	0.006	0.000028	0.0106	1.53	0.0258	0.00001	0.00149	0.00029	0.003	7.76	0.00148	1.66
13-Aug-09	6	500	465	7.52	319	179	4.7	23.86	51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Aug-09	7	500	455	7.53	348	163	2.62	23.04	52	0.5	0.06	70.3	0.0628	0.00019	0.0113	0.00893	0.00001	0.000005	0.05	0.000005	26.4	0.0001	0.000073	0.0007	0.006	0.000019	0.0084	1.05	0.0195	0.00001	0.00107	0.00018	0.002	6.65	0.00094	1.68
27-Aug-09	8	500	460	7.62	313	167	3.38	24.91	49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Sep-09	9	500	490	7.46	275	144	3.9	22.46	46	0.5	0.05	59	0.0624	0.00019	0.0103	0.00778	0.00001	0.000005	0.05	0.000005	22.1	0.0001	0.00006	0.00067	0.009	0.000038	0.0079	0.89	0.0173	0.00001	0.00094	0.00018	0.002	6.19	0.00081	1.44
10-Sep-09	10	500	435	7.81	337	160	1.27	26.27	58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Sep-09	11	500	445	7.74	343	141	2.67	25.23	44	0.7	0.05	56.4	0.0684	0.00019	0.0112	0.00739	0.00001	0.000005	0.05	0.000006	21.2	0.0001	0.000058	0.00067	0.007	0.000014	0.0078	0.83	0.0139	0.00001	0.00087	0.00016	0.002	6.16	0.00083	1.43
24-Sep-09	12	500	470	7.57	348	150	2.49	28.42	48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Oct-09	13	500	450	7.61	355	117	2.45	21.51	39	0.5	0.04	48.8	0.0708	0.00013	0.00911	0.00646	0.00001	0.000005	0.05	0.000005	18.3	0.0001	0.00006	0.00149	0.013	0.000013	0.0065	0.72	0.0126	0.00001	0.00061	0.00018	0.002	5.37	0.00066	1.09
8-Oct-09	14	500	455	7.60	342	133	3.91	24	51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Oct-09	15	500	460	7.57	353	133	2.78	24.56	42	0.5	0.05	53.6	0.0755	0.00016	0.0113	0.00659	0.00001	0.000005	0.05	0.000005	20.3	0.0001	0.000078	0.00114	0.009	0.000402	0.007	0.69	0.0133	0.00001	0.0006	0.00013	0.002	6.04	0.00075	1.31
22-Oct-09	16	500	480	7.70	347	145	2.8	28.17	47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Oct-09	17	500	455	7.70	350	113	2.25	21.74	34	0.5	0.04	40.9	0.0659	0.00013	0.00857	0.0059	0.00001	0.000005	0.05	0.000005	15.5	0.0002	0.000057	0.00087	0.015	0.00139	0.0064	0.55	0.012	0.00001	0.00055	0.00031	0.003	5.14	0.00059	1
5-Nov-09	18	500	470	7.78	345	118	3.78	23.4	36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Nov-09	19	500	465	7.51	339	111	4.67	24.26	24	0.5	0.04	37	0.083	0.00011	0.0101	0.00446	0.00001	0.000005	0.05	0.000005	14	0.0006	0.000051	0.00066	0.017	0.000082	0.0058	0.51	0.0092	0.00001	0.00051	0.00023	0.004	5	0.00052	1.11
19-Nov-09	20	500	465	7.60	352	109	4.49	22.39	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-Nov-09	21	500	460	7.88	353	126	2.02	30.43	38	0.5	0.05	44.8	0.0831	0.00021	0.011	0.00621	0.00001	0.000017	0.05	0.000006	16.9	0.0001	0.000056	0.00037	0.018	0.00015	0.0067	0.64	0.0121	0.00001	0.00059	0.00019	0.002	5.79	0.00057	1.26
3-Dec-09	22	500	480	7.52	351	130	4.93	27.21	39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Dec-09	23	500	485	7.45	383	120	4.65	23.3	40	0.5	0.04	47.1	0.0645	0.00015	0.00811	0.00619	0.00001	0.000005	0.05	0.000005	17.8	0.0001	0.000058	0.0003	0.012	0.000008	0.0067	0.66	0.0129	0.00001	0.00053	0.00007	0.002	5.72	0.0005	1.21
17-Dec-09	24	500	490	7.68	368	109	2.8	25.5	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-09	25	500	485	7.67	375	118	2.61	27.32	34	0.5	0.04	49.7	0.0565	0.00022	0.0103	0.0069	0.00001	0.000005	0.05	0.000005	18.9	0.0001	0.000059	0.00041	0.006	0.000005	0.0077	0.63	0.0141	0.00001	0.0006	0.00014	0.002	6.7	0.00058	1.53
31-Dec-09	26	500	475	7.64	398	120	2.57	25.88	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Jan-10	27	500	480	7.49	380	94	2.78	21.71	21	0.5	0.05	34.1	0.0577	0.00009	0.00644	0.00496	0.00001	0.000005	0.05	0.000005	12.9	0.0001	0.000052	0.00031	0.012	0.000048	0.0054	0.44	0.0124	0.00001	0.00034	0.00014	0.002	4.66	0.00038	1.04
14-Jan-10	28	500	485	7.33	354	100	--	18.04	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-10	29	500	480	7.48	367	119	2.87	24.48	35	0.5	0.04	50.7	0.0609	0.00019	0.00959	0.00692	0.00001	0.000005	0.05	0.000005	19.2	0.0001	0.000051	--	0.005	0.000019	0.0074	0.66	0.0137	0.00001	0.00051	0.00019	0.002	6.82	0.00061	1.34
28-Jan-10	30	500	485	7.28	363	85	4.44	18.3	30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Feb-10	31	500	465	7.06	286	78	3.96	15.81	24	0.5	0.02	34.2	0.0489	0.00012	0.00664	0.00475	0.00001	0.000005	0.05	0.000005	13	0.0002	0.000044	0.0009	0.006	0.000039	0.0053	0.43	0.009	0.00001	0.00036	0.00022	0.002	4.57	0.00042	0.91
11-Feb-10	32	500	480	7.16	353	97	3.22	15.81	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	33	500	465	7.20	298	99	3.85	17.35	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-10	34	500	455	7.37	361	108	3.24	22.15	35	--	0.03	47.1	0.0501	0.00015	0.0076	0.00794	0.00001	0.000005	0.05	0.000005	17.9	0.0001	0.000115	0.00055	0.005	0.000019	0.007	0.6	0.0122	0.00001	0.00051	0.00017	0.002	5.68	0.00059	1.21
4-Mar-10	35	500	455	7.29	367	98	3.15	17.3	30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-10	36	500	460	7.25	383	86	3.61	14.78	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	37	500	490	7.21	374	91	3.41	15.28	22	--	0.02	30.2	0.0439	0.0001	0.00494	0.00465	0.00001	0.000005	0.05	0.000005	11.4	0.0001	0.000047	0.00037	0.006	0.000005	0.005	0.4	0.0093	0.00001	0.00031	0.0002	0.002	4.21	0.00039	0.79
25-Mar-10	38	500	475	7.42	365	93	3.67	16.32	30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	39	500	475	7.40	376	91	2.86	14.75	31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Apr-10	40	500	460	7.33	361	95	2.92	16.3	29	--	0.02	35.2	0.0479	0.0001	0.00551	0.00554	0.00001	0.000005	0.05	0.000005	13.4	0.0001	0.000039	0.0017	0.006	0.000028	0.0051	0.43	0.009	0.00001	0.00032	0.00016	0.002	4.88	0.00045	1.01

Cell Terminated

HC 5
Sample = DG07-335C 103.02-113.69
Sample Wt. (kg) 1 **Loadings**

Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
0.00001	5.46	0.535	86	0.000025	0.00001	0.0005	0.0165	0.0002	0.0006	0.0001
0.000005	5.75	0.361	74	0.000013	0.00001	0.0005	0.00562	0.0002	0.0008	0.0001
0.000005	4.53	0.365	60	0.00001	0.00001	0.0005	0.00567	0.0004	0.0014	0.0001
0.000005	2.37	0.237	31	0.000008	0.00001	0.0005	0.00481	0.0002	0.0005	0.0001
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0.000005	1.95	0.195	29	0.000007	0.00001	0.0005	0.0045	0.0003	0.0004	0.0001
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0.000005	1.17	0.14	20	0.000006	0.00001	0.0005	0.00379	0.0004	0.0006	0.0001
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0.000005	0.86	0.122	17	0.000007	0.00001	0.0005	0.00387	0.0004	0.0005	0.0001
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0.000005	0.75	0.121	15	0.000006	0.00005	0.0005	0.00327	0.0004	0.0007	0.0001
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0.000005	0.68	0.1	14	0.000005	0.00001	0.0005	0.00287	0.0002	0.0004	0.0001
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0.000005	0.59	0.111	14	0.000004	0.00001	0.0005	0.00329	0.0004	0.0007	0.0001
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0.000005	0.48	0.0925	11	0.000005	0.00008	0.0008	0.00299	0.0003	0.0004	0.0001
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0.000005	0.51	0.0785	9	0.000002	0.00002	0.0007	0.0028	0.0005	0.0009	0.0001
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0.000005	0.51	0.0954	11	0.000005	0.00002	0.0013	0.00322	0.0005	0.0008	0.0001
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0.000006	0.36	0.0987	12	0.000005	0.00001	0.0011	0.00465	0.0004	0.0002	0.0001
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0.000005	0.36	0.107	13	0.000005	0.00001	0.0005	0.00452	0.0004	0.0002	0.0001
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0.000005	0.23	0.0715	9	0.000002	0.00008	0.001	0.00311	0.0003	0.0002	0.0001
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0.000005	0.34	0.0987	13	0.000006	0.00002	0.0005	0.00393	0.0003	0.0004	0.0001
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0.000005	0.25	0.0707	8	0.000004	0.00021	0.0005	0.00279	0.0003	0.0005	0.0001
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0.000005	0.31	0.101	12	0.000004	0.00001	0.0005	0.00332	0.0003	0.0004	0.0001
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0.000005	0.21	0.0663	10	0.000004	0.00001	0.0005	0.00228	0.0002	0.0003	0.0001
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0.000005	0.26	0.0708	10	0.000003	0.00001	0.0005	0.00225	0.0003	0.0007	0.0001

Date	Cycle	Acidity (pH 8.3) mgCaCO3/kg/wk	Alkalinity mgCaCO3/kg/wk	Sulphate mg/kg/wk	Chloride mg/kg/wk	Fluoride mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk
2-Jul-09	0	1.16	17.00	109.81	2.77	0.04	0.0063	0.0001	0.0009	0.0145	0.000004	0.000002	0.0198	0.000007	39.8950	0.00004	0.00118	0.0002	0.0004
9-Jul-09	1	1.03	11.31	78.63	6.38	0.04	0.0158	0.0001	0.0041	0.0075	0.000004	0.000002	0.0213	0.000006	29.4950	0.00004	0.00016	0.0004	0.0009
16-Jul-09	2	1.31	9.88	61.56	0.93	0.04	0.0195	0.0001	0.0047	0.0067	0.000004	0.000002	0.0203	0.000007	26.8515	0.00004	0.00013	0.0009	0.0020
23-Jul-09	3	1.30	11.91	50.85	0.23	0.04	0.0277	0.0001	0.0054	0.0054	0.000005	0.000002	0.0225	0.000002	18.1350	0.00005	0.00007	0.0006	0.0009
30-Jul-09	4	2.06	11.25	31.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Aug-09	5	1.01	12.64	42.78	0.46	0.04	0.0272	0.0001	0.0056	0.0049	0.000005	0.000002	0.0230	0.000003	16.3760	0.00005	0.00005	0.0006	0.0028
13-Aug-09	6	2.19	11.09	23.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Aug-09	7	1.19	10.48	23.66	0.23	0.03	0.0286	0.0001	0.0051	0.0041	0.000005	0.000002	0.0228	0.000002	12.0120	0.00005	0.00003	0.0003	0.0027
27-Aug-09	8	1.55	11.46	22.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Sep-09	9	1.91	11.01	22.54	0.25	0.02	0.0306	0.0001	0.0050	0.0038	0.000005	0.000002	0.0245	0.000002	10.8290	0.00005	0.00003	0.0003	0.0044
10-Sep-09	10	0.55	11.43	25.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Sep-09	11	1.19	11.23	19.58	0.31	0.02	0.0304	0.0001	0.0050	0.0033	0.000004	0.000002	0.0223	0.000003	9.4340	0.00004	0.00003	0.0003	0.0031
24-Sep-09	12	1.17	13.36	22.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Oct-09	13	1.10	9.68	17.55	0.23	0.02	0.0319	0.0001	0.0041	0.0029	0.000005	0.000002	0.0225	0.000002	8.2350	0.00005	0.00003	0.0007	0.0059
8-Oct-09	14	1.78	10.92	23.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Oct-09	15	1.28	11.30	19.32	0.23	0.02	0.0347	0.0001	0.0052	0.0030	0.000005	0.000002	0.0230	0.000002	9.3380	0.00005	0.00004	0.0005	0.0041
22-Oct-09	16	1.34	13.52	22.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Oct-09	17	1.02	9.89	15.47	0.23	0.02	0.0300	0.0001	0.0039	0.0027	0.000005	0.000002	0.0228	0.000002	7.0525	0.00009	0.00003	0.0004	0.0068
5-Nov-09	18	1.78	11.00	16.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Nov-09	19	2.17	11.28	11.16	0.23	0.02	0.0386	0.0001	0.0047	0.0021	0.000005	0.000002	0.0233	0.000002	6.5100	0.00028	0.00002	0.0003	0.0079
19-Nov-09	20	2.09	10.41	12.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-Nov-09	21	0.93	14.00	17.48	0.23	0.02	0.0382	0.0001	0.0051	0.0029	0.000005	0.000008	0.0230	0.000003	7.7740	0.00005	0.00003	0.0002	0.0083
3-Dec-09	22	2.37	13.06	18.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Dec-09	23	2.26	11.30	19.40	0.24	0.02	0.0313	0.0001	0.0039	0.0030	0.000005	0.000002	0.0243	0.000002	8.6330	0.00005	0.00003	0.0001	0.0058
17-Dec-09	24	1.37	12.50	12.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-09	25	1.27	13.25	16.49	0.24	0.02	0.0274	0.0001	0.0050	0.0033	0.000005	0.000002	0.0243	0.000002	9.1665	0.00005	0.00003	0.0002	0.0029
31-Dec-09	26	1.22	12.29	16.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Jan-10	27	1.33	10.42	10.08	0.24	0.02	0.0277	0.0000	0.0031	0.0024	0.000005	0.000002	0.0240	0.000002	6.1920	0.00005	0.00002	0.0001	0.0058
14-Jan-10	28	--	8.75	13.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-10	29	1.38	11.75	16.80	0.24	0.02	0.0292	0.0001	0.0046	0.0033	0.000005	0.000002	0.0240	0.000002	9.2160	0.00005	0.00002	--	0.0024
28-Jan-10	30	2.15	8.88	14.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Feb-10	31	1.84	7.35	11.16	0.23	0.01	0.0227	0.0001	0.0031	0.0022	0.000005	0.000002	0.0233	0.000002	6.0450	0.00009	0.00002	0.0004	0.0028
11-Feb-10	32	1.55	7.59	12.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	33	1.79	8.07	12.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-10	34	1.47	10.08	15.93	--	0.01	0.0228	0.0001	0.0035	0.0036	0.000005	0.000002	0.0228	0.000002	8.1445	0.00005	0.00005	0.0003	0.0023
4-Mar-10	35	1.43	7.87	13.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-10	36	1.66	6.80	11.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	37	1.67	7.49	10.78	--	0.01	0.0215	0.0000	0.0024	0.0023	0.000005	0.000002	0.0245	0.000002	5.5860	0.00005	0.00002	0.0002	0.0029
25-Mar-10	38	1.74	7.75	14.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	39	1.36	7.01	14.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Apr-10	40	1.34	7.50	13.34	--	0.01	0.0220	0.0000	0.0025	0.0025	0.000005	0.000002	0.0230	0.000002	6.1640	0.00005	0.00002	0.0008	0.0028

Cell Terminated

Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.000004	0.0087	2.06	0.0517	0.000004	0.0006	0.00283	0.0016	3.47	0.0021	0.5491	0.000004	2.16	0.21	33.97	0.000010	0.000004	0.0002	0.0065	0.0001	0.0002	0.00004
0.000004	0.0059	1.86	0.0215	0.000009	0.0010	0.00036	0.0009	3.95	0.0032	0.6163	0.000002	2.44	0.15	31.45	0.000006	0.000004	0.0002	0.0024	0.0001	0.0003	0.00004
0.000028	0.0060	1.49	0.0179	0.000004	0.0010	0.00032	0.0008	3.49	0.0022	0.6602	0.000002	1.83	0.15	24.30	0.000004	0.000004	0.0002	0.0023	0.0002	0.0006	0.00004
0.000004	0.0052	0.81	0.0131	0.000005	0.0007	0.00015	0.0009	3.33	0.0009	0.6930	0.000002	1.07	0.11	13.95	0.000004	0.000005	0.0002	0.0022	0.0001	0.0002	0.00005
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0.000013	0.0049	0.70	0.0119	0.000005	0.0007	0.00013	0.0014	3.57	0.0007	0.7636	0.000002	0.90	0.09	13.34	0.000003	0.000005	0.0002	0.0021	0.0001	0.0002	0.00005
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0.000009	0.0038	0.48	0.0089	0.000005	0.0005	0.00008	0.0009	3.03	0.0004	0.7644	0.000002	0.53	0.06	9.10	0.000003	0.000005	0.0002	0.0017	0.0002	0.0003	0.00005
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0.000019	0.0039	0.44	0.0085	0.000005	0.0005	0.00009	0.0010	3.03	0.0004	0.7056	0.000002	0.42	0.06	8.33	0.000003	0.000005	0.0002	0.0019	0.0002	0.0002	0.00005
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0.000006	0.0035	0.37	0.0062	0.000004	0.0004	0.00007	0.0009	2.74	0.0004	0.6364	0.000002	0.33	0.05	6.68	0.000003	0.000022	0.0002	0.0015	0.0002	0.0003	0.00004
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0.000006	0.0029	0.32	0.0057	0.000005	0.0003	0.00008	0.0009	2.42	0.0003	0.4905	0.000002	0.31	0.05	6.30	0.000002	0.000005	0.0002	0.0013	0.0001	0.0002	0.00005
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0.000185	0.0032	0.32	0.0061	0.000005	0.0003	0.00006	0.0009	2.78	0.0003	0.6026	0.000002	0.27	0.05	6.44	0.000002	0.000005	0.0002	0.0015	0.0002	0.0003	0.00005
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0.000632	0.0029	0.25	0.0055	0.000005	0.0003	0.00014	0.0014	2.34	0.0003	0.4536	0.000002	0.22	0.04	5.01	0.000002	0.000036	0.0004	0.0014	0.0001	0.0002	0.00005
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0.000038	0.0027	0.24	0.0043	0.000005	0.0002	0.00011	0.0019	2.33	0.0002	0.5162	0.000002	0.24	0.04	4.19	0.000001	0.000009	0.0003	0.0013	0.0002	0.0004	0.00005
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0.000069	0.0031	0.29	0.0056	0.000005	0.0003	0.00009	0.0009	2.66	0.0003	0.5796	0.000002	0.23	0.04	5.06	0.000002	0.000009	0.0006	0.0015	0.0002	0.0004	0.00005
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0.000004	0.0032	0.32	0.0063	0.000005	0.0003	0.00003	0.0010	2.77	0.0002	0.5869	0.000003	0.17	0.05	5.82	0.000002	0.000005	0.0005	0.0023	0.0002	0.0001	0.00005
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0.000002	0.0037	0.31	0.0068	0.000005	0.0003	0.00007	0.0010	3.25	0.0003	0.7421	0.000002	0.17	0.05	6.31	0.000002	0.000005	0.0002	0.0022	0.0002	0.0001	0.00005
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0.000023	0.0026	0.21	0.0060	0.000005	0.0002	0.00007	0.0010	2.24	0.0002	0.4992	0.000002	0.11	0.03	4.32	0.000001	0.000038	0.0005	0.0015	0.0001	0.0001	0.00005
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0.000009	0.0036	0.32	0.0066	0.000005	0.0002	0.00009	0.0010	3.27	0.0003	0.6432	0.000002	0.16	0.05	6.24	0.000003	0.000010	0.0002	0.0019	0.0001	0.0002	0.00005
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0.000018	0.0025	0.20	0.0042	0.000005	0.0002	0.00010	0.0009	2.13	0.0002	0.4213	0.000002	0.12	0.03	3.72	0.000002	0.000098	0.0002	0.0013	0.0001	0.0002	0.00005
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0.000009	0.0032	0.27	0.0056	0.000005	0.0002	0.00008	0.0009	2.58	0.0003	0.5506	0.000002	0.14	0.05	5.46	0.000002	0.000005	0.0002	0.0015	0.0001	0.0002	0.00005
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0.000002	0.0025	0.20	0.0046	0.000005	0.0002	0.00010	0.0010	2.06	0.0002	0.3851	0.000002	0.10	0.03	4.90	0.000002	0.000005	0.0002	0.0011	0.0001	0.0001	0.00005
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0.000013	0.0023	0.20	0.0041	0.000005	0.0001	0.00007	0.0009	2.24	0.0002	0.4646	0.000002	0.12	0.03	4.60	0.000001	0.000005	0.0002	0.0010	0.0001	0.0003	0.00005

HC 6

Sample = DG07-303C 175.26-185.93

Sample Wt. (kg) 1

							Concentrations																															
Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Jul-09	0	750	380	8.03	284	271	1.53	63.34	53	3.1	0.63	107	0.0453	0.0262	0.00673	0.0209	0.00001	0.000074	0.05	0.000005	34.3	0.0001	0.00072	0.0028	0.002	0.000039	0.0066	5.25	0.0035	0.00001	0.00292	0.00173	0.006	9.67	0.0048	1.23
9-Jul-09	1	500	445	8.05	296	184	1.2	37.62	48	6.5	0.48	95	0.101	0.075	0.0134	0.0147	0.00001	0.000068	0.05	0.000005	30.6	0.0001	0.000528	0.00277	0.002	0.000051	0.0048	4.52	0.0034	0.00001	0.00435	0.00156	0.006	5.24	0.00659	1.42
16-Jul-09	2	500	415	8.15	328	124	1.27	32.21	38	2.3	0.58	59.9	0.108	0.113	0.0142	0.00993	0.00001	0.000072	0.05	0.000005	18.8	0.0002	0.000283	0.00204	0.007	0.000163	0.0043	3.18	0.0023	0.00001	0.00378	0.00096	0.003	4.21	0.00524	1.38
23-Jul-09	3	500	455	8.31	329	80	0.93	34.2	10	0.5	0.33	32	0.109	0.06	0.00814	0.00515	0.00001	0.00004	0.05	0.000005	9.83	0.0001	0.000122	0.00143	0.003	0.000037	0.0025	1.82	0.0033	0.00001	0.00134	0.0003	0.002	2.46	0.00213	1.06
30-Jul-09	4	500	435	7.78	337	82	3.67	29.99	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Aug-09	5	500	460	8.19	285	74	1.03	32.59	16	0.8	0.24	41	0.124	0.053	0.00656	0.00531	0.00001	0.000062	0.05	0.000005	12.7	0.0001	0.000104	0.00095	0.007	0.000066	0.002	2.24	0.0036	0.00001	0.00089	0.00019	0.003	2.34	0.0025	1.01
13-Aug-09	6	500	460	8.11	297	80	2.73	32.88	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Aug-09	7	500	460	8.01	333	79	1.46	29.4	10	0.5	0.2	39.5	0.132	0.0523	0.00608	0.0051	0.00001	0.000076	0.05	0.000005	11.8	0.0001	0.000093	0.0005	0.005	0.000069	0.002	2.43	0.0031	0.00001	0.00064	0.00022	0.003	2.29	0.00245	1.13
27-Aug-09	8	500	460	8.29	287	78	1.37	31.38	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Sep-09	9	500	485	7.88	279	90	2.65	30.31	21	0.5	0.19	42.8	0.135	0.0615	0.00624	0.00533	0.00001	0.000075	0.05	0.000007	12.7	0.0001	0.000073	0.00074	0.003	0.000089	0.0021	2.68	0.0028	0.00001	0.00064	0.00013	0.002	2.2	0.00313	1.15
10-Sep-09	10	500	430	8.24	319	87	0.06	29.71	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Sep-09	11	500	445	8.18	331	89	1.41	32.14	15	0.9	0.16	45	0.118	0.0555	0.00556	0.00556	0.00001	0.000058	0.05	0.000005	13.5	0.0001	0.000076	0.00072	0.003	0.000069	0.0019	2.77	0.0037	0.00001	0.00063	0.00011	0.002	1.98	0.00317	0.91
24-Sep-09	12	500	450	8.13	324	89	0.8	35.75	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Oct-09	13	500	470	7.87	343	83	1.9	31.09	14	0.5	0.13	44.8	0.109	0.0534	0.00419	0.00541	0.00001	0.000065	0.05	0.000007	13	0.0001	0.000088	0.00101	0.008	0.000095	0.0017	2.98	0.005	0.00001	0.00063	0.00028	0.002	1.97	0.00279	0.94
8-Oct-09	14	500	450	7.78	333	86	3.07	31.06	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Oct-09	15	500	465	8.12	334	77	1.43	32.11	17	0.5	0.12	43.8	0.122	0.047	0.00462	0.00515	0.00001	0.00006	0.05	0.000009	12.9	0.0001	0.000066	0.00129	0.006	0.000061	0.0016	2.81	0.004	0.00001	0.00059	0.00012	0.002	1.82	0.00286	0.98
22-Oct-09	16	500	450	7.89	333	87	2.09	31.14	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Oct-09	17	500	460	7.94	341	83	1.54	29.61	18	0.5	0.1	41.6	0.0946	0.0497	0.00325	0.00467	0.00001	0.000098	0.05	0.000005	12.2	0.0001	0.000079	0.00173	0.006	0.000109	0.0016	2.69	0.0044	0.00001	0.00076	0.00035	0.003	1.61	0.00234	0.73
5-Nov-09	18	500	460	8.15	331	84	2.53	31.3	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Nov-09	19	500	465	7.73	323	83	4.04	29.64	16	0.5	0.08	42.1	0.116	0.0514	0.00335	0.00425	0.00001	0.000083	0.05	0.000009	12.1	0.0001	0.000066	0.00039	0.004	0.000079	0.0013	2.88	0.0041	0.00001	0.001	0.00032	0.003	1.45	0.00202	0.8
19-Nov-09	20	500	455	7.84	341	89	3.45	29.24	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-Nov-09	21	500	440	8.15	350	90	1.35	33.14	21	0.5	0.08	44.5	0.0996	0.0517	0.00288	0.00414	0.00001	0.000077	0.05	0.000005	13.1	0.0001	0.000074	0.00056	0.007	0.00007	0.0013	2.89	0.005	0.00001	0.00111	0.00014	0.002	1.31	0.00198	0.71
3-Dec-09	22	500	470	7.77	343	87	4.16	30.74	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Dec-09	23	500	480	7.69	376	85	3.87	27.27	16	0.5	0.07	45.5	0.0797	0.0454	0.00232	0.00421	0.00001	0.000097	0.05	0.000005	13.2	0.0001	0.000074	0.00032	0.005	0.000111	0.0011	3.02	0.004	0.00001	0.00115	0.00008	0.002	1.22	0.00181	0.69
17-Dec-09	24	500	495	7.81	360	80	2.31	27.69	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Dec-09	25	500	475	7.77	368	76	2.34	28.83	14	0.5	0.06	44.5	0.0697	0.0502	0.00232	0.00397	0.00001	0.000049	0.05	0.000005	13.2	0.0001	0.000082	0.00032	0.003	0.00021	0.0011	2.79	0.0051	0.00001	0.00102	0.00011	0.002	1.24	0.00194	0.69
31-Dec-09	26	500	470	7.84	390	81	2.01	29.47	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Jan-10	27	500	475	7.68	378	90	2.2	29.63	16	0.5	0.06	47.7	0.0796	0.0469	0.00232	0.00423	0.00001	0.000053	0.05	0.000005	13.8	0.0001	0.000071	0.00049	0.004	0.000064	0.0012	3.23	0.006	0.00001	0.00114	0.00011	0.002	1.17	0.00192	0.73
14-Jan-10	28	500	485	7.54	348	78	--	26.02	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jan-10	29	500	490	7.64	361	80	2.28	28.09	17	0.5	0.05	44.3	0.0766	0.0428	0.00217	0.00406	0.00001	0.000045	0.05	0.000005	12.8	0.0001	0.000074	--	0.003	0.00004	0.0012	2.99	0.0053	0.00001	0.00098	0.00019	0.002	1.19	0.00186	0.66
28-Jan-10	30	500	485	7.46	356	67	3.7	25.88	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Feb-10	31	500	470	7.54	273	77	2.89	30.64	19	0.5	0.06	50.2	0.0771	0.0446	0.00282	0.00483	0.00001	0.000048	0.05	0.000005	14.3	0.0001	0.000085	0.00114	0.003	0.000088	0.0013	3.52	0.0042	0.00001	0.00116	0.00021	0.002	1.31	0.00219	0.81

Cell Terminated

HC 6
Sample = DG07-303C 175.26-185.93
Sample Wt. (kg) 1 **Loadings**

Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L	Date	Cycle	Acidity (pH 8.3) mgCaCO3/kg/wk	Alkalinity mgCaCO3/kg/wk	Sulphate mg/kg/wk	Chloride mg/kg/wk	Fluoride mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk
0.000005	9.09	1.41	14	0.000013	0.00003	0.0005	0.0199	0.0002	0.0002	0.0001	2-Jul-09	0	0.58	24.07	20.14	1.18	0.24	0.0172	0.0100	0.0026	0.0079	0.000004	0.000028	0.0190	0.000002	13.03	0.00004	0.00027	0.0011	0.0008
0.000005	8	1.12	18	0.000006	0.00001	0.0005	0.0428	0.0003	0.0006	0.0001	9-Jul-09	1	0.53	16.74	21.36	2.89	0.21	0.0449	0.0334	0.0060	0.0065	0.000004	0.000030	0.0223	0.000002	13.62	0.00004	0.00023	0.0012	0.0009
0.000005	6.26	0.843	14	0.000006	0.00005	0.0005	0.0559	0.0005	0.001	0.0001	16-Jul-09	2	0.53	13.37	15.77	0.95	0.24	0.0448	0.0469	0.0059	0.0041	0.000004	0.000030	0.0208	0.000002	7.80	0.00008	0.00012	0.0008	0.0029
0.000005	2.7	0.419	4	0.000004	0.00001	0.0005	0.0374	0.0002	0.0004	0.0001	23-Jul-09	3	0.42	15.56	4.55	0.23	0.15	0.0496	0.0273	0.0037	0.0023	0.000005	0.000018	0.0228	0.000002	4.47	0.00005	0.00006	0.0007	0.0014
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0.000005	2.07	0.453	6	0.000003	0.00001	0.0005	0.0438	0.0002	0.0009	0.0001	6-Aug-09	5	0.47	14.99	7.36	0.37	0.11	0.0570	0.0244	0.0030	0.0024	0.000005	0.000029	0.0230	0.000002	5.84	0.00005	0.00005	0.0004	0.0032
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0.000005	1.4	0.451	5	0.000006	0.00002	0.0005	0.0423	0.0003	0.0004	0.0001	20-Aug-09	7	0.67	13.52	4.60	0.23	0.09	0.0607	0.0241	0.0028	0.0023	0.000005	0.000035	0.0230	0.000002	5.43	0.00005	0.00004	0.0002	0.0023
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0.000005	1.19	0.528	7	0.000005	0.00002	0.0005	0.0456	0.0004	0.0006	0.0001	3-Sep-09	9	1.29	14.70	10.19	0.24	0.09	0.0655	0.0298	0.0030	0.0026	0.000005	0.000036	0.0243	0.000003	6.16	0.00005	0.00004	0.0004	0.0015
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0.000005	1.04	0.511	7	0.000008	0.00008	0.0005	0.0364	0.0003	0.0003	0.0001	17-Sep-09	11	0.63	14.30	6.68	0.40	0.07	0.0525	0.0247	0.0025	0.0025	0.000004	0.000026	0.0223	0.000002	6.01	0.00004	0.00003	0.0003	0.0013
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0.000005	0.89	0.462	7	0.000009	0.00004	0.0005	0.038	0.0002	0.0007	0.0001	1-Oct-09	13	0.89	14.61	6.58	0.24	0.06	0.0512	0.0251	0.0020	0.0025	0.000005	0.000031	0.0235	0.000003	6.11	0.00005	0.00004	0.0005	0.0038
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0.000005	0.7	0.452	5	0.00001	0.00002	0.0005	0.0288	0.0002	0.0006	0.0001	15-Oct-09	15	0.66	14.93	7.91	0.23	0.06	0.0567	0.0219	0.0021	0.0024	0.000005	0.000028	0.0233	0.000004	6.00	0.00005	0.00003	0.0006	0.0028
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0.000005	0.58	0.434	6	0.000005	0.00007	0.0005	0.032	0.0002	0.0008	0.0001	29-Oct-09	17	0.71	13.62	8.28	0.23	0.05	0.0435	0.0229	0.0015	0.0021	0.000005	0.000045	0.0230	0.000002	5.61	0.00005	0.00004	0.0008	0.0028
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0.000005	0.51	0.416	6	0.000003	0.00002	0.0005	0.0277	0.0002	0.0004	0.0001	12-Nov-09	19	1.88	13.78	7.44	0.23	0.04	0.0539	0.0239	0.0016	0.0020	0.000005	0.000039	0.0233	0.000004	5.63	0.00005	0.00003	0.0002	0.0019
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0.000005	0.44	0.398	6	0.000005	0.00003	0.0005	0.0236	0.0002	0.0003	0.0001	26-Nov-09	21	0.59	14.58	9.24	0.22	0.04	0.0438	0.0227	0.0013	0.0018	0.000004	0.000034	0.0220	0.000002	5.76	0.00004	0.00003	0.0002	0.0031
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0.000005	0.33	0.418	6	0.000006	0.00002	0.0005	0.0277	0.0002	0.0003	0.0001	10-Dec-09	23	1.86	13.09	7.68	0.24	0.03	0.0383	0.0218	0.0011	0.0020	0.000005	0.000047	0.0240	0.000002	6.34	0.00005	0.00004	0.0002	0.0024
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0.000005	0.3	0.391	6	0.000007	0.00001	0.0005	0.0252	0.0002	0.0003	0.0001	24-Dec-09	25	1.11	13.69	6.65	0.24	0.03	0.0331	0.0238	0.0011	0.0019	0.000005	0.000023	0.0238	0.000002	6.27	0.00005	0.00004	0.0002	0.0014
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0.000005	0.33	0.405	7	0.000002	0.00015	0.0005	0.0242	0.0002	0.001	0.0001	7-Jan-10	27	1.05	14.07	7.60	0.24	0.03	0.0378	0.0223	0.0011	0.0020	0.000005	0.000025	0.0238	0.000002	6.56	0.00005	0.00003	0.0002	0.0019
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0.000008	0.29	0.367	6	0.000006	0.00001	0.0005	0.0208	0.0002	0.0004	0.0001	21-Jan-10	29	1.12	13.76	8.33	0.25	0.02	0.0375	0.0210	0.0011	0.0020	0.000005	0.000022	0.0245	0.000002	6.27	0.00005	0.00004	--	0.0015
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0.000005	0.38	0.476	7	0.000003	0.00019	0.0005	0.0252	0.0002	0.0005	0.0001	4-Feb-10	31	1.36	14.40	8.93	0.24	0.03	0.0362	0.0210	0.0013	0.0023	0.000005	0.000023	0.0235	0.000002	6.72	0.00005	0.00004	0.0005	0.0014

Cell Terminated

Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.00001	0.0025	2.00	0.0013	0.000004	0.0011	0.00066	0.0023	3.67	0.0018	0.47	0.000002	3.45	0.54	5.32	0.000005	0.000011	0.0002	0.0076	0.0001	0.0001	0.00004
0.00002	0.0021	2.01	0.0015	0.000004	0.0019	0.00069	0.0027	2.33	0.0029	0.63	0.000002	3.56	0.50	8.01	0.000003	0.000004	0.0002	0.0190	0.0001	0.0003	0.00004
0.00007	0.0018	1.32	0.0009	0.000004	0.0016	0.00040	0.0012	1.75	0.0022	0.57	0.000002	2.60	0.35	5.81	0.000002	0.000021	0.0002	0.0232	0.0002	0.0004	0.00004
0.00002	0.0011	0.83	0.0015	0.000005	0.0006	0.00014	0.0009	1.12	0.0010	0.48	0.000002	1.23	0.19	1.82	0.000002	0.000005	0.0002	0.0170	0.0001	0.0002	0.00005
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0.00003	0.0009	1.03	0.0017	0.000005	0.0004	0.00009	0.0014	1.08	0.0012	0.46	0.000002	0.95	0.21	2.76	0.000001	0.000005	0.0002	0.0201	0.0001	0.0004	0.00005
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0.00003	0.0009	1.12	0.0014	0.000005	0.0003	0.00010	0.0014	1.05	0.0011	0.52	0.000002	0.64	0.21	2.30	0.000003	0.000009	0.0002	0.0195	0.0001	0.0002	0.00005
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0.00004	0.0010	1.30	0.0014	0.000005	0.0003	0.00006	0.0010	1.07	0.0015	0.56	0.000002	0.58	0.26	3.40	0.000002	0.000010	0.0002	0.0221	0.0002	0.0003	0.00005
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0.00003	0.0008	1.23	0.0016	0.000004	0.0003	0.00005	0.0009	0.88	0.0014	0.41	0.000002	0.46	0.23	3.12	0.000004	0.000036	0.0002	0.0162	0.0001	0.0001	0.00004
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0.00004	0.0008	1.40	0.0023	0.000005	0.0003	0.00013	0.0009	0.93	0.0013	0.44	0.000002	0.42	0.22	3.29	0.000004	0.000019	0.0002	0.0179	0.0001	0.0003	0.00005
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0.00003	0.0007	1.31	0.0019	0.000005	0.0003	0.00006	0.0009	0.85	0.0013	0.46	0.000002	0.33	0.21	2.33	0.000005	0.000009	0.0002	0.0134	0.0001	0.0003	0.00005
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0.00005	0.0007	1.24	0.0020	0.000005	0.0003	0.00016	0.0014	0.74	0.0011	0.34	0.000002	0.27	0.20	2.76	0.000002	0.000032	0.0002	0.0147	0.0001	0.0004	0.00005
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0.00004	0.0006	1.34	0.0019	0.000005	0.0005	0.00015	0.0014	0.67	0.0009	0.37	0.000002	0.24	0.19	2.79	0.000001	0.000009	0.0002	0.0129	0.0001	0.0002	0.00005
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0.00003	0.0006	1.27	0.0022	0.000004	0.0005	0.00006	0.0009	0.58	0.0009	0.31	0.000002	0.19	0.18	2.64	0.000002	0.000013	0.0002	0.0104	0.0001	0.0001	0.00004
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0.00005	0.0005	1.45	0.0019	0.000005	0.0006	0.00004	0.0010	0.59	0.0009	0.33	0.000002	0.16	0.20	2.88	0.000003	0.000010	0.0002	0.0133	0.0001	0.0001	0.00005
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0.00010	0.0005	1.33	0.0024	0.000005	0.0005	0.00005	0.0010	0.59	0.0009	0.33	0.000002	0.14	0.19	2.85	0.000003	0.000005	0.0002	0.0120	0.0001	0.0001	0.00005
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0.00003	0.0006	1.53	0.0028	0.000005	0.0005	0.00005	0.0010	0.56	0.0009	0.35	0.000002	0.16	0.19	3.33	0.000001	0.000071	0.0002	0.0115	0.0001	0.0005	0.00005
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0.00002	0.0006	1.47	0.0026	0.000005	0.0005	0.00009	0.0010	0.58	0.0009	0.32	0.000004	0.14	0.18	2.94	0.000003	0.000005	0.0002	0.0102	0.0001	0.0002	0.00005
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0.00004	0.0006	1.65	0.0020	0.000005	0.0005	0.00010	0.0009	0.62	0.0010	0.38	0.000002	0.18	0.22	3.29	0.000001	0.000089	0.0002	0.0118	0.0001	0.0002	0.00005

HC 7

Sample = KCA No. 42979

Sample Wt. (kg) 1

Concentrations

Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
24-Dec-09	0	750	320	7.43	410	542	2.06	23.04	393	12	0.22	409	0.0483	0.0465	0.00987	0.0334	0.00001	0.00001	0.05	0.00005	149	0.0001	0.000759	0.00264	0.011	0.000157	0.0179	9.38	0.0365	0.00002	0.00692	0.00226	0.009	7.38	0.024	1.51
31-Dec-09	1	500	445	7.43	410	542	2.06	23.04	249	4.1	0.17	260	0.0425	0.0261	0.00846	0.0191	0.00001	0.000017	0.05	0.000005	92.6	0.0001	0.000335	0.00124	0.004	0.000037	0.0103	6.97	0.0185	0.00001	0.0093	0.00095	0.003	4.69	0.0166	1.09
7-Jan-10	2	500	455	7.62	395	495	2.54	28.2	238	0.6	0.22	259	0.0502	0.0326	0.012	0.017	0.00001	0.000011	0.05	0.000015	93.2	0.0001	0.000284	0.00096	0.003	0.000032	0.0102	6.25	0.0196	0.00001	0.0112	0.00075	0.003	4.89	0.00913	1.59
14-Jan-10	3	500	470	7.49	364	391	6.2	30.15	165	0.5	0.21	199	0.0646	0.0423	0.0143	0.0133	0.00001	0.000012	0.05	0.000018	71.9	0.0003	0.000194	0.00065	0.006	0.000042	0.0091	4.7	0.0143	0.00001	0.0118	0.00059	0.002	4.38	0.00485	1.87
21-Jan-10	4	500	465	7.63	375	261	2.79	28.34	102	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-10	5	500	470	7.45	369	225	4.06	29.24	121	0.9	0.17	128	0.0679	0.0375	0.0134	0.00947	0.00001	0.000013	0.05	0.000008	46.6	0.0002	0.000116	0.0006	0.007	0.000042	0.0063	2.81	0.0094	0.00001	0.00929	0.00044	0.003	3.31	0.0022	1.49
4-Feb-10	6	500	460	7.58	272	174	2.72	29.9	82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-10	7	500	480	7.48	349	173	2.75	26.39	57	0.5	0.21	87.4	0.0679	0.0388	0.0116	0.00936	0.00001	0.000018	0.05	0.000008	32.2	0.0001	0.000067	0.00103	0.003	0.000035	0.005	1.68	0.0057	0.00001	0.00785	0.0004	0.002	2.6	0.00124	1.36
18-Feb-10	8	500	450	7.49	312	166	3.38	29.98	58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-10	9	500	440	7.64	359	166	2.84	30.72	51	0.5	0.23	84.5	0.0675	0.0574	0.0173	0.00955	0.00001	0.000014	0.05	0.000007	31.3	0.0001	0.000082	0.00041	0.002	0.000036	0.0058	1.56	0.0041	0.00001	0.00895	0.00029	0.002	2.96	0.00144	1.77
4-Mar-10	10	500	455	7.62	368	135	2.48	29.58	45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-10	11	500	440	7.67	377	152	3.15	40.19	38	0.5	0.18	79	0.0607	0.0678	0.0208	0.00894	0.00001	0.000013	0.05	0.000009	29.1	0.0001	0.000058	0.00045	0.002	0.00008	0.0055	1.54	0.0037	0.00001	0.00863	0.0002	0.002	3.09	0.00141	1.98
18-Mar-10	12	500	485	7.58	376	139	3.49	35.96	30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-10	13	500	475	7.75	363	121	3.06	37.92	27	0.5	0.21	56.8	0.0744	0.0716	0.0219	0.00806	0.00001	0.000023	0.05	0.000008	20.9	0.0001	0.000059	0.00063	0.005	0.000054	0.0054	1.15	0.0026	0.00001	0.00803	0.00038	0.002	2.85	0.0014	2.11
1-Apr-10	14	500	460	7.74	377	106	2.58	34.74	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Apr-10	15	500	460	7.80	360	114	2.34	37.18	23	0.5	0.18	52.3	0.0672	0.0625	0.0214	0.00794	0.00001	0.000018	0.05	0.000007	19.3	0.0001	0.000043	0.00093	0.005	0.000044	0.0046	1.01	0.0027	0.00001	0.00681	0.00024	0.002	2.63	0.00132	1.89
15-Apr-10	16	500	460	7.67	325	117	3.25	39.23	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Apr-10	17	500	490	7.70	346	102	4.13	35.78	17	0.5	0.14	48	0.0718	0.0563	0.0204	0.00625	0.00001	0.000095	0.05	0.000011	17.8	0.0001	0.000032	0.00051	0.005	0.000043	0.0041	0.87	0.0027	0.00001	0.00636	0.00016	0.003	2.5	0.00132	1.93
29-Apr-10	18	500	475	7.71	354	97	2.69	34.65	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-May-10	19	500	465	7.66	320	99	4.57	38.83	13	0.5	0.1	48.6	0.0705	0.0582	0.0227	0.00641	0.00001	0.000017	0.05	0.000008	18	0.0001	0.000039	0.00033	0.005	0.000051	0.0041	0.9	0.0027	0.00001	0.00586	0.00017	0.002	2.42	0.00138	1.89
13-May-10	20	500	470	7.68	326	99	3.51	35.25	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-May-10	21	500	440	7.73	356	82	3.66	31.16	15	0.5	0.06	39.6	0.0823	0.0423	0.022	0.00519	0.00001	0.000018	0.05	0.00001	14.6	0.0001	0.000027	0.00047	0.004	0.000114	0.0031	0.76	0.0024	0.00001	0.00447	0.00017	0.002	2	0.00133	1.56
27-May-10	22	500	455	7.73	369	82	5.22	34.8	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Jun-10	23	500	440	7.72	354	89	2.86	35.84	14	0.5	0.07	39.9	0.0845	0.0455	0.0244	0.00643	0.00001	0.000018	0.05	0.00001	14.5	0.0001	0.000044	0.0004	0.004	0.000052	0.0036	0.91	0.0032	0.00001	0.00492	0.00018	0.002	2.37	0.00137	1.82
10-Jun-10	24	500	450	7.59	304	95	5.11	37.07	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Jun-10	25	500	460	7.74	335	85	3.85	35.4	4	0.5	0.05	37.5	0.0861	0.0478	0.0273	0.0112	0.00001	0.000011	0.05	0.000005	13.6	0.0001	0.000035	0.00072	0.005	0.000038	0.0033	0.86	0.0023	0.00001	0.00456	0.00013	0.002	2.31	0.00151	1.71
24-Jun-10	26	500	460	7.83	407	90	2.43	36.68	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Jul-10	27	500	450	7.77	414	89	2.59	37.26	11	0.5	0.06	36.5	0.0696	0.0431	0.0239	0.00583	0.00001	0.000009	0.05	0.000005	13.3	0.0001	0.000025	0.00027	0.002	0.000036	0.0028	0.8	0.0022	0.00001	0.00387	0.00016	0.002	2.02	0.00134	1.65
8-Jul-10	28	500	440	7.72	314	85	2.22	33.15	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Jul-10	29	500	470	7.63	338	90	3.95	35.88	8	0.5	0.06	40.8	0.0695	0.0455	0.032	0.00611	0.00001	0.000008	0.05	0.000006	14.9	0.0001	0.000029	0.00045	0.002	0.000035	0.0032	0.89	0.0023	0.00001	0.0038	0.00009	0.002	2.16	0.00161	1.87
22-Jul-10	30	500	475	7.60	355	88	3.64	37.39	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Jul-10	31	500	465	7.64	339	87	4.68	37.53	7	0.5	0.04	40.5	0.078	0.0424	0.0255	0.00598	0.00001	0.000014	0.05	0.000008	14.8	0.0001	0.000029	0.00046	0.004	0.000038	0.0031	0.89	0.0024	0.00001	0.00301	0.00016	0.002	2.05	0.00136	1.85
5-Aug-10	32	500	460	7.78	304	88	2.53	37.28	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Aug-10	33	500	470	7.70	396	87	4.94	38.38	11	0.5	0.04	39.8	0.0853	0.0389	0.0255	0.00601	0.00001	0.000018	0.05	0.000008	14.6	0.0001	0.000039	0.00082	0.005	0.000083	0.003	0.84	0.0023	0.00001	0.00269	0.00024	0.002	2.01	0.00129	1.64
19-Aug-10	34	500	420	7.75	368	84	5.43	34.77	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-Aug-10	35	500	450	7.69	354	88	2.81	36.43	12	0.5	0.03	40.2	0.0763	0.0384	0.0242	0.00706	0.00001	0.000011	0.05	0.000005	14.7	0.0001	0.000035	0.00072	0.004	0.000037	0.0032	0.88	0.0024	0.00001	0.00278	0.00023	0.002	2.1	0.00129	1.54
2-Sep-10	36	500	460	7.71	344	79	4.1	38.65	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9-Sep-10	37	500	460	7.45	365	94	5.19	39.45	12	0.5	0.07	41.1	0.0781	0.0384	0.0253	0.00655	0.00001	0.000017	0.05	0.000006	15	0.0002	0.000027	0.0004	0.005	0.000041	0.0031	0.9	0.002	0.00001	0.00258	0.00022	0.002	2.18	0.00144	1.77
16-Sep-10	38	500	435	7.59	358	93	3.57	42.16	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23-Sep-10	39	500	465	7.65	371	74	2.6	35.55	17	0.5	0.04	40	0.0899	0.0406	0.0236	0.00604	0.00001	0.000011	0.05	0.000007	14.7	0.0002	0.00003	0.00046	0.003	0.000038	0.0029	0.81	0.002	0.00001	0.00255	0.0002	0.002	1.99	0.00143	1.76
30-Sep-10	40	500	430	7.60	310	74	3.02	36.55	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Oct-10	41	500	415	7.48	351	115	4.24	44.18	20	0.5	0.09	50.9	0.0632	0.0554	0.0267	0.00751	0.00001	0.000005	0.05	0.000005	18.6	0.0001	0.000028	0.00033	0.003	0.000025	0.0034	1.07	0.0023	0.00001	0.00324	0.00012	0.002	2.55	0.00149	2.17
14-Oct-10	42	500	455	7.40	308	98	4.18	41.64	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Oct-10	43	500	455	7.47	449	98	3.89	42.42	15	0.5	0.04	46	0.0813	0.0369	0.0235	0.00677	0.00001	0.000007	0.05	0.000007	16.9	0.0001	0.000029	0.00033	0.005	0.000043	0.003	0.9	0.0019	0.00001	0.00219	0.00034	0.002	2.22	0.00134	1.89
28-Oct-10	44	500	450	7.51	244	100	3.68	41.04	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nov-10	45	500	445	7.68	378	91	2.93	39.09	15	0.5	0.04	44	0.0819	0.0338	0.0235	0.00662	0.00001	0.000007	0.05	0.000008	16.2	0.0001	0.000037	0.00138	0.005	0.000081	0.003	0.87	0.002	0.00001	0.00222	0.00021	0.002	2.14	0.00132	1.74
11-Nov-10	46	500	490	7.64	383	104	2.88	42.13	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Nov-10	47	500	445	7.68	354	103	3.32	42.14	14	0.5	0.03	46.6	0.0803	0.0338	0.0219	0.00665	0.00001	0.000008	0.05	0.000008	17.2	0.0001	0.00003	0.00054	0.004	0.000038	0.0029	0.89	0.0016	0.00001	0.00247	0.00007	0.002	2.03	0.00129	1.71
25-Nov-10	48	500	445	7.51	219	105	4	47.05	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Dec-10	49	500	465	7.45	374	100	4.22	44.35	10	0.5	0.02	47.1	0.0737	0.0312	0.0197	0.00653	0.00001	0.00001	0.05	0.000005	17.4	0.0001	0.000024	0.00071	0.005	0.000046	0.0028	0.88	0.0019	0.00001	0.00202	0.00035	0.002	1.96	0.00116	1.63
9-Dec-10	50	500	450	7.45	343	100	3.98	42.44	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Dec-10	51	500	455	7.41	368	102	5.78	42.79	17	0.5	0.02	49.1	0.0743	0.033	0.0215	0.0068	0.00001	0.000012	0.05	0.000005	18.1	0.0001	0.000023	0.00157	0.003	0.000136	0.0028	0.92	0.0015	0.00001	0.00461	0.00024	0.002	1.84	0.00138	1.64
23-Dec-10	52	500	450	7.51	251	96	5.64	41.83	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30-Dec-10	53	500	460	7.41	335	87	7.16	40.36	16	0.5	0.07	44.3	0.0849	0.0298	0.0211	0.00634	0.00001	0.000013	0.05	0.000007	16.4	0.0001	0.000022	0.00064	0.005	0.000062	0.0025	0.85	0.0012	0.00001	0.00218	0.00018	0.002	1.82	0.00118	1.44
6-Jan-11	54	500	460	7.23	328	82	6.68	46.85	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-Jan-11	55	500	465	7.40	308	82	4.81	43.39	14	0.5	0.02	46.7	0.0613	0.0293	0.0174	0.00677	0.00001	0.000008	0.05	0.000009	17.3	0.0001	0.000019	0.00045	0.006	0.000102	0.0027	0.85	0.0014	0.00001	0.00193	0.00007	0.002	1.64	0.00102	1.5
20-Jan-11	56	500	470	7.48	278	91	4.02	43.62	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-Jan-11	57	500	440	7.41	333	77	4.94	37.91	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Feb-11	58	500	470	7.38	318	71	3.62	38.32	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Feb-11	59	500	460	7.50	352	71	3.6	35.42	11	0.5	0.01	42.4	0.0687	0.0217	0.0145	0.00513	0.00001	0.000006	0.05	0.000005	15.9	0.0001	0.000028	0.00141	0.002	--	0.0021	0.69	0.0025	0.00001	0.00175	0.00015	0.002	1.44	0.00078	1.19
17-Feb-11	60	500	445	7.57	248	86	3.91	40.09	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Feb-11	61	500	455	7.45	366	108	5	43.16	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Mar-11	62	500	460	7.35	307	98	4.23	39.1	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Mar-11	63	500	450	7.50	364	97	3.63	39.39	12	0.5	0.01	41.5	0.0872	0.0217	0.0157	0.00558	0.00001	0.000011	0.05	0.000005	15.3	0.0001	0.000022	0.00093	0.004	0.000038	0.0022	0.77	0.0013	0.00001	0.0018	0.0002	0.002	1.53	0.00088	1.04
17-Mar-11	64	500	450	7.58	223	96	3.29	37.07	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Mar-11	65	500	445	7.55	349	103	6.37	41.69	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Mar-11	66	500	435	7.31	312	100	5.22	40.06	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

HC 7

Sample = KCA No. 42979

Sample Wt. (kg) 1

Concentrations

Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7-Apr-11	67	500	455	7.41	319	100	6.28	42.57	12	0.5	0.03	44.7	0.0656	0.0239	0.0167	0.00746	0.00001	0.000005	0.05	0.000005	16.6	0.0005	0.000021	0.00045	0.002	0.000024	0.0022	0.76	0.0009	0.00001	0.00256	0.00015	0.002	1.58	0.00094	1.19
14-Apr-11	68	500	445	7.64	198	105	7.23	45.79	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Apr-11	69	500	460	7.54	302	90	3.32	35.34	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Apr-11	70	500	430	7.42	332	94	3.76	37.86	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-May-11	71	500	445	7.39	360	98	3.88	37.92	14	0.5	0.05	45.7	0.0806	0.0223	0.0154	0.0057	0.00001	0.000006	0.05	0.000007	17.2	0.0001	0.000012	0.00032	0.003	0.000033	0.002	0.67	0.0008	0.00001	0.00194	0.00007	0.002	1.4	0.00103	1.25
12-May-11	72	500	465	7.28	356	98	4.94	41.01	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-May-11	73	500	470	7.85	231	107	--	34	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-May-11	74	500	440	7.28	265	102	5.19	36.58	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Jun-11	75	500	435	7.31	237	117	6.78	48.57	12	0.5	0.06	51	0.0591	0.0256	0.0181	0.00668	0.00001	0.000005	0.05	0.00001	19.1	0.0001	0.000008	0.00029	0.002	0.000069	0.0024	0.79	0.0004	0.00001	0.00191	0.00011	0.002	1.66	0.00109	1.38
9-Jun-11	76	500	465	7.30	274	92	4.26	36	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Jun-11	77	500	480	7.41	307	103	4.44	44.32	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23-Jun-11	78	500	460	7.43	292	97	4.77	41.05	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30-Jun-11	79	500	465	7.40	305	97	4.77	40.99	15	0.5	0.01	45.5	0.0769	0.0208	0.0154	0.00684	0.00001	0.000005	0.05	0.00001	17.2	0.0001	0.000018	0.00041	0.006	0.000035	0.0019	0.64	0.0011	0.00001	0.00175	0.00022	0.002	1.36	0.00096	1.16
7-Jul-11	80	500	470	7.39	314	87	5.26	34.26	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jul-11	81	500	465	7.09	295	90	5.72	33.13	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jul-11	82	500	470	7.23	276	83	4.25	29.65	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jul-11	83	500	480	7.16	291	94	5.3	35.39	15	0.9	0.03	45.2	0.0661	0.0179	0.0124	0.00519	0.00001	0.000009	0.05	0.000005	17.2	0.0001	0.000015	0.00036	0.003	0.000046	0.0018	0.55	0.0008	0.00001	0.00201	0.00006	0.002	1.11	0.00084	1.05
4-Aug-11	84	500	440	7.20	312	96	4.23	34.54	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Aug-11	85	500	490	7.21	221	84	5.39	34.43	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Aug-11	86	500	475	7.62	279	77	3.49	30.14	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Aug-11	87	500	440	7.01	246	62	6.07	23.27	9	0.5	0.01	25.5	0.0734	0.0095	0.00743	0.00324	0.00001	0.000009	0.05	0.000005	9.72	0.0001	0.000021	0.00103	0.004	0.000042	0.0009	0.31	0.0015	0.00001	0.00161	0.00023	0.002	0.64	0.00052	0.54
1-Sep-11	88	500	445	7.33	309	80	6.26	26.33	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Sep-11	89	500	460	7.32	249	83	4.42	29.16	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Sep-11	90	500	470	7.58	255	81	4.17	36.17	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Sep-11	91	500	475	7.19	253	77	4.67	28.13	13	0.5	0.02	34	0.0782	0.0129	0.0096	0.0046	0.00001	0.000008	0.05	0.000022	12.9	0.0001	0.000029	0.00241	0.004	0.000041	0.0013	0.41	0.0015	0.00001	0.0015	0.00025	0.002	0.9	0.00067	0.73

Cell Terminated

HC 7
Sample = KCA No. 42979
Sample Wt. (kg) 1

Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
0.000092	18.4	3.36	140	0.000038	0.00005	0.0005	0.0377	0.0002	0.001	0.0001
0.000005	14.4	2.12	80	0.000016	0.00003	0.0005	0.0298	0.0002	0.0004	0.0001
0.000005	9.75	2.23	80	0.000016	0.00011	0.0005	0.0228	0.0002	0.0006	0.0001
0.000005	5.59	1.68	58	0.000018	0.00002	0.0005	0.0202	0.0002	0.0006	0.0001
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0.000005	2.35	1.12	33	0.000014	0.00017	0.0007	0.0149	0.0002	0.0003	0.0001
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0.000005	1.45	0.756	22	0.000012	0.00001	0.0005	0.0104	0.0002	0.0007	0.0001
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0.000005	1.24	0.779	20	0.000015	0.00001	0.0005	0.0106	0.0002	0.001	0.0001
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0.000005	0.99	0.723	15	0.000019	0.00001	0.0005	0.0133	0.0003	0.0003	0.0001
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0.000005	0.82	0.559	10	0.000014	0.00001	0.0005	0.0103	0.0003	0.0004	0.0001
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0.000005	0.64	0.483	7	0.000024	0.00004	0.0005	0.00968	0.0003	0.0011	0.0001
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0.000005	0.51	0.432	10	0.000013	0.00001	0.0005	0.00946	0.0002	0.001	0.0001
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0.000011	0.48	0.421	10	0.000035	0.00001	0.0005	0.00947	0.0003	0.0004	0.0001
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0.000005	0.38	0.344	10	0.000015	0.00001	0.0005	0.00717	0.0002	0.0004	0.0001
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0.000005	0.44	0.381	10	0.000013	0.00001	0.0005	0.00818	0.0004	0.0005	0.0001
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0.000005	0.44	0.378	10	0.000015	0.00003	0.0005	0.00793	0.0003	0.0006	0.0001
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0.000005	0.34	0.373	10	0.000013	0.00002	0.0005	0.00836	0.0003	0.0002	0.0001
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0.000005	0.37	0.414	10	0.00001	0.00007	0.0005	0.0093	0.0004	0.0002	0.0001
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0.000006	0.33	0.387	10	0.000011	0.00001	0.0005	0.00817	0.0003	0.0004	0.0001
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0.000005	0.33	0.376	10	0.000013	0.00002	0.0005	0.00898	0.0003	0.0009	0.0001
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0.000005	0.32	0.385	10	0.000013	0.00023	0.0005	0.00653	0.0002	0.0005	0.0001
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0.000005	0.33	0.395	10	0.000013	0.00002	0.0005	0.0076	0.0002	0.0001	0.0001
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0.000005	0.28	0.372	10	0.000015	0.00003	0.0005	0.00719	0.0003	0.0005	0.0001
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0.000005	0.37	0.491	10	0.000013	0.00001	0.0005	0.00907	0.0002	0.0001	0.0001
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0.000005	0.31	0.43	10	0.000018	0.00001	0.0005	0.00759	0.0002	0.0002	0.0001
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0.000005	0.27	0.41	10	0.000012	0.00001	0.0005	0.00709	0.0002	0.0004	0.0001
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0.000005	0.23	0.429	10	0.000014	0.00001	0.0005	0.00775	0.0002	0.0001	0.0001
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0.000005	0.26	0.419	10	0.000014	0.00001	0.0005	0.00768	0.0002	0.0004	0.0001
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0.000005	0.22	0.426	10	0.000015	0.00003	0.0005	0.0077	0.0002	0.0005	0.0001
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0.000005	0.24	0.405	10	0.000013	0.00002	0.0006	0.00726	0.0002	0.0003	0.0001
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0.000005	0.24	0.41	10	0.00001	0.00001	0.0005	0.00688	0.0002	0.0005	0.0001
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0.000005	0.16	0.329	10	0.000011	0.00001	0.0005	0.00564	0.0002	0.0005	0.0001
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0.000005	0.19	0.354	10	0.000011	0.00002	0.0005	0.00625	0.0002	0.0003	0.0001
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Loadings

Date	Cycle	Acidity (pH 8.3) mgCaCO3/kg/wk	Alkalinity mgCaCO3/kg/wk	Sulphate mg/kg/wk	Chloride mg/kg/wk	Fluoride mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk
24-Dec-09	0	0.66	7.37	125.76	3.84	0.07	0.0155	0.0149	0.0032	0.0107	0.000003	0.000003	0.0160	0.000016	47.68	0.000032	0.000243	0.0008	0.0035
31-Dec-09	1	0.92	10.25	110.81	1.82	0.08	0.0189	0.0116	0.0038	0.0085	0.000004	0.000008	0.0223	0.000002	41.21	0.000045	0.000149	0.0006	0.0018
7-Jan-10	2	1.16	12.83	108.29	0.27	0.10	0.0228	0.0148	0.0055	0.0077	0.000005	0.000005	0.0228	0.000007	42.41	0.000046	0.000129	0.0004	0.0014
14-Jan-10	3	2.91	14.17	77.55	0.24	0.10	0.0304	0.0199	0.0067	0.0063	0.000005	0.000006	0.0235	0.000008	33.79	0.000141	0.000091	0.0003	0.0028
21-Jan-10	4	1.30	13.18	47.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jan-10	5	1.91	13.74	56.87	0.42	0.08	0.0319	0.0176	0.0063	0.0045	0.000005	0.000006	0.0235	0.000004	21.90	0.000094	0.000055	0.0003	0.0033
4-Feb-10	6	1.25	13.75	37.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Feb-10	7	1.32	12.67	27.36	0.24	0.10	0.0326	0.0186	0.0056	0.0045	0.000005	0.000009	0.0240	0.000004	15.46	0.000048	0.000032	0.0005	0.0014
18-Feb-10	8	1.52	13.49	26.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Feb-10	9	1.25	13.52	22.44	0.22	0.10	0.0297	0.0253	0.0076	0.0042	0.000004	0.000006	0.0220	0.000003	13.77	0.000044	0.000036	0.0002	0.0009
4-Mar-10	10	1.13	13.46	20.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Mar-10	11	1.39	17.68	16.72	0.22	0.08	0.0267	0.0298	0.0092	0.0039	0.000004	0.000006	0.0220	0.000004	12.80	0.000044	0.000026	0.0002	0.0009
18-Mar-10	12	1.69	17.44	14.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Mar-10	13	1.45	18.01	12.83	0.24	0.10	0.0353	0.0340	0.0104	0.0038	0.000005	0.000011	0.0238	0.000004	9.93	0.000048	0.000028	0.0003	0.0024
1-Apr-10	14	1.19	15.98	9.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Apr-10	15	1.08	17.10	10.58	0.23	0.08	0.0309	0.0288	0.0098	0.0037	0.000005	0.000008	0.0230	0.000003	8.88	0.000046	0.000020	0.0004	0.0023
15-Apr-10	16	1.50	18.05	12.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Apr-10	17	2.02	17.53	8.33	0.25	0.07	0.0352	0.0276	0.0100	0.0031	0.000005	0.000047	0.0245	0.000005	8.72	0.000049	0.000016	0.0002	0.0025
29-Apr-10	18	1.28	16.46	8.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-May-10	19	2.13	18.06	6.05	0.23	0.05	0.0328	0.0271	0.0106	0.0030	0.000005	0.000008	0.0233	0.000004	8.37	0.000047	0.000018	0.0002	0.0023
13-May-10	20	1.65	16.57	7.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-May-10	21	1.61	13.71	6.60	0.22	0.03	0.0362	0.0186	0.0097	0.0023	0.000004	0.000008	0.0220	0.000004	6.42	0.000044	0.000012	0.0002	0.0018
27-May-10	22	2.38	15.83	3.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Jun-10	23	1.26	15.77	6.16	0.22	0.03	0.0372	0.0200	0.0107	0.0028	0.000004	0.000008	0.0220	0.000004	6.38	0.000044	0.000019	0.0002	0.0018
10-Jun-10	24	2.30	16.68	4.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Jun-10	25	1.77	16.28	1.84	0.23	0.02	0.0396	0.0220	0.0126	0.0052	0.000005	0.000005	0.0230	0.000002	6.26	0.000046	0.000016	0.0003	0.0023
24-Jun-10	26	1.12	16.87	4.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Jul-10	27	1.17	16.77	4.95	0.23	0.03	0.0313	0.0194	0.0108	0.0026	0.000005	0.000004	0.0225	0.000002	5.99	0.000045	0.000011	0.0001	0.0009
8-Jul-10	28	0.98	14.59	3.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Jul-10	29	1.86	16.86	3.76	0.24	0.03	0.0327	0.0214	0.0150	0.0029	0.000005	0.000004	0.0235	0.000003	7.00	0.000047	0.000014	0.0002	0.0009
22-Jul-10	30	1.73	17.76	2.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Jul-10	31	2.18	17.45	3.26	0.23	0.02	0.0363	0.0197	0.0119	0.0028	0.000005	0.000007	0.0233	0.000004	6.88	0.000047	0.000013	0.0002	0.0019
5-Aug-10	32	1.16	17.15	4.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-Aug-10	33	2.32	18.04	5.17	0.24	0.02	0.0401	0.0183	0.0120	0.0028	0.000005	0.000008	0.0235	0.000004	6.86	0.000047	0.000018	0.0004	0.0024
19-Aug-10	34	2.28	14.60	4.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-Aug-10	35	1.26	16.39	5.40	0.23	0.01	0.0343	0.0173	0.0109	0.0032	0.000005	0.000005	0.0225	0.000002	6.62	0.000045	0.000016	0.0003	0.0018
2-Sep-10	36	1.89	17.78	8.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9-Sep-10	37	2.39	18.15	5.52	0.23	0.03	0.0359	0.0177	0.0116	0.0030	0.000005	0.000008	0.0230	0.000003	6.90	0.000092	0.000012	0.0002	0.0023
16-Sep-10	38	1.55	18.34	6.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23-Sep-10	39	1.21	16.53	7.91	0.23	0.02	0.0418	0.0189	0.0110	0.0028	0.000005	0.000005	0.0233	0.000003	6.84	0.000093	0.000014	0.0002	0.0014
30-Sep-10	40	1.30	15.72	8.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Oct-10	41	1.76	18.33	8.30	0.21	0.04	0.0262	0.0230	0.0111	0.0031	0.000004	0.000002	0.0208	0.000002	7.72	0.000042	0.000012	0.0001	0.0012
14-Oct-10	42	1.90	18.95	7.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Oct-10	43	1.77	19.30	6.83	0.23	0.02	0.0370	0.0168	0.0107	0.0031	0.000005	0.000003	0.0228	0.000003	7.69	0.000046	0.000013	0.0002	0.0023
28-Oct-10	44	1.66	18.47	7.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nov-10	45	1.30	17.40	6.68	0.22	0.02	0.0364	0.0150	0.0105	0.0029	0.000004	0.000003	0.0223	0.000004	7.21	0.000045	0.000016	0.0006	0.0022
11-Nov-10	46	1.41	20.64	6.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Nov-10	47	1.48	18.75	6.23	0.22	0.01	0.0357	0.0150	0.0097	0.0030	0.000004	0.000004	0.0223	0.000004	7.65	0.000045	0.000013	0.0002	0.0018
25-Nov-10	48	1.78	20.94	5.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Dec-10	49	1.96	20.62	4.65	0.23	0.01	0.0343	0.0145	0.0092	0.0030	0.000005	0.000005	0.0233	0.000002	8.09	0.000047	0.000011	0.0003	0.0023
9-Dec-10	50	1.79	19.10	4.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Dec-10	51	2.63	19.47	7.74	0.23	0.01	0.0338	0.0150	0.0098	0.0031	0.000005	0.000005	0.0228	0.000002	8.24	0.000046	0.000010	0.0007	0.0014
23-Dec-10	52	2.54	18.82	5.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30-Dec-10	53	3.29	18.57	7.36	0.23	0.03	0.0391	0.0137	0.0097	0.0029	0.000005	0.000006	0.0230	0.000003	7.54	0.000046	0.000010	0.0003	0.0023
6-Jan-11	54	3.07	21.55	5.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-Jan-11	55	2.24	20.18	6.51	0.23	0.01	0.0285	0.0136	0.0081	0.0031	0.000005	0.000004	0.0233	0.000004	8.04	0.000047	0.000009	0.0002	0.0028
20-Jan-11	56	1.89	20.50	5.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-Jan-11	57	2.17	16.68	5.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Feb-11	58	1.70	18.01	6.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Feb-11	59	1.66	16.29	5.06	0.23	0.00	0.0316	0.0100	0.0067	0.0024	0.000005	0.000003	0.0230	0.000002	7.31	0.000046	0.000013	0.0006	0.0009
17-Feb-11	60	1.74	17.84	4.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Feb-11	61	2.28	19.64	8.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Mar-11	62	1.95	17.99	8.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Mar-11	63	1.63	17.73	5.40	0.23	0.00	0.0392	0.0098	0.0071	0.0025	0.000005	0.000005	0.0225	0.000002	6.89	0.000045	0.000010	0.0004	0.0018
17-Mar-11	64	1.48	16.68	6.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Mar-11	65	2.83	18.55	5.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Mar-11	66	2.27	17.43	4.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

HC 7
Sample = KCA No. 42979
Sample Wt. (kg) 1

Loadings

Date	Cycle	Acidity (pH 8.3) mgCaCO3/kg/wk	Alkalinity mgCaCO3/kg/wk	Sulphate mg/kg/wk	Chloride mg/kg/wk	Fluoride mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk	Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
7-Apr-11	67	2.86	19.37	5.46	0.23	0.01	0.0298	0.0109	0.0076	0.0034	0.000005	0.000002	0.0228	0.000002	7.55	0.000228	0.000010	0.0002	0.0009	0.000005	0.23	0.365	10	0.000012	0.00002	0.0005	0.00595	0.0002	0.0003	0.0001
14-Apr-11	68	3.22	20.38	5.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Apr-11	69	1.53	16.26	5.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Apr-11	70	1.62	16.28	5.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-May-11	71	1.73	16.87	6.23	0.22	0.02	0.0359	0.0099	0.0069	0.0025	0.000004	0.000003	0.0223	0.000003	7.65	0.000045	0.000005	0.0001	0.0013	0.000005	0.15	0.335	10	0.000008	0.00002	0.0005	0.00508	0.0002	0.0001	0.0001
12-May-11	72	2.30	19.07	5.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-May-11	73	--	15.98	6.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-May-11	74	2.28	16.10	4.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Jun-11	75	2.95	21.13	5.22	0.22	0.03	0.0257	0.0111	0.0079	0.0029	0.000004	0.000002	0.0218	0.000004	8.31	0.000044	0.000003	0.0001	0.0009	0.000005	0.16	0.406	10	0.000019	0.00004	0.0005	0.00599	0.0002	0.0004	0.0001
9-Jun-11	76	1.98	16.74	4.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Jun-11	77	2.13	21.27	5.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23-Jun-11	78	2.19	18.88	6.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30-Jun-11	79	2.22	19.06	6.98	0.23	0.00	0.0358	0.0097	0.0072	0.0032	0.000005	0.000002	0.0233	0.000005	8.00	0.000047	0.000008	0.0002	0.0028	0.000005	0.17	0.322	10	0.000016	0.00003	0.0005	0.00497	0.0002	0.0012	0.0001
7-Jul-11	80	2.47	16.10	7.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jul-11	81	2.66	15.41	5.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jul-11	82	2.00	13.94	6.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Jul-11	83	2.54	16.99	7.20	0.43	0.01	0.0317	0.0086	0.0060	0.0025	0.000005	0.000004	0.0240	0.000002	8.26	0.000048	0.000007	0.0002	0.0014	0.000005	0.14	0.3	10	0.000011	0.0001	0.0005	0.00477	0.0002	0.0004	0.0001
4-Aug-11	84	1.86	15.20	5.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Aug-11	85	2.64	16.87	5.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Aug-11	86	1.66	14.32	5.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Aug-11	87	2.67	10.24	3.96	0.22	0.00	0.0323	0.0042	0.0033	0.0014	0.000004	0.000004	0.0220	0.000002	4.28	0.000044	0.000009	0.0005	0.0018	0.000005	0.15	0.16	10	0.000008	0.00006	0.0005	0.00234	0.0002	0.0004	0.0001
1-Sep-11	88	2.79	11.72	8.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Sep-11	89	2.03	13.41	8.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Sep-11	90	1.96	17.00	7.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Sep-11	91	2.22	13.36	6.18	0.24	0.01	0.0371	0.0061	0.0046	0.0022	0.000005	0.000004	0.0238	0.000010	6.13	0.000048	0.000014	0.0011	0.0019	0.000005	0.15	0.212	10	0.000012	0.00012	0.0005	0.00338	0.0005	0.0006	0.0001

Cell Terminated

Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.00005	0.0057	3.00	0.0117	0.000006	0.0022	0.00072	0.0029	2.36	0.0077	0.48	0.000029	5.89	1.08	44.80	0.000012	0.000016	0.0002	0.0121	0.0001	0.0003	0.00003
0.00002	0.0046	3.10	0.0082	0.000004	0.0041	0.00042	0.0013	2.09	0.0074	0.49	0.000002	6.41	0.94	35.60	0.000007	0.000013	0.0002	0.0133	0.0001	0.0002	0.00004
0.00001	0.0046	2.84	0.0089	0.000005	0.0051	0.00034	0.0014	2.22	0.0042	0.72	0.000002	4.44	1.01	36.40	0.000007	0.000050	0.0002	0.0104	0.0001	0.0003	0.00005
0.00002	0.0043	2.21	0.0067	0.000005	0.0055	0.00028	0.0009	2.06	0.0023	0.88	0.000002	2.63	0.79	27.26	0.000008	0.000009	0.0002	0.0095	0.0001	0.0003	0.00005
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0.00002	0.0030	1.32	0.0044	0.000005	0.0044	0.00021	0.0014	1.56	0.0010	0.70	0.000002	1.10	0.53	15.51	0.000007	0.000080	0.0003	0.0070	0.0001	0.0001	0.00005
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0.00002	0.0024	0.81	0.0027	0.000005	0.0038	0.00019	0.0010	1.25	0.0006	0.65	0.000002	0.70	0.36	10.56	0.000006	0.000005	0.0002	0.0050	0.0001	0.0003	0.00005
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0.00002	0.0026	0.69	0.0018	0.000004	0.0039	0.00013	0.0009	1.30	0.0006	0.78	0.000002	0.55	0.34	8.80	0.000007	0.000004	0.0002	0.0047	0.0001	0.0004	0.00004
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0.00004	0.0024	0.68	0.0016	0.000004	0.0038	0.00009	0.0009	1.36	0.0006	0.87	0.000002	0.44	0.32	6.60	0.000008	0.000004	0.0002	0.0059	0.0001	0.0001	0.00004
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0.00003	0.0026	0.55	0.0012	0.000005	0.0038	0.00018	0.0010	1.35	0.0007	1.00	0.000002	0.39	0.27	4.75	0.000007	0.000005	0.0002	0.0049	0.0001	0.0002	0.00005
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0.00002	0.0021	0.46	0.0013	0.000005	0.0031	0.00011	0.0009	1.21	0.0006	0.87	0.000002	0.29	0.22	3.22	0.000011	0.000018	0.0002	0.0045	0.0001	0.0005	0.00005
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0.00002	0.0020	0.43	0.0013	0.000005	0.0031	0.00008	0.0015	1.23	0.0006	0.95	0.000002	0.25	0.21	4.90	0.000006	0.000005	0.0002	0.0046	0.0001	0.0005	0.00005
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0.00002	0.0019	0.42	0.0013	0.000005	0.0027	0.00008	0.0009	1.13	0.0006	0.88	0.000005	0.22	0.20	4.65	0.000016	0.000005	0.0002	0.0044	0.0001	0.0002	0.00005
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0.00005	0.0014	0.33	0.0011	0.000004	0.0020	0.00007	0.0009	0.88	0.0006	0.69	0.000002	0.17	0.15	4.40	0.000007	0.000004	0.0002	0.0032	0.0001	0.0002	0.00004
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0.00002	0.0016	0.40	0.0014	0.000004	0.0022	0.00008	0.0009	1.04	0.0006	0.80	0.000002	0.19	0.17	4.40	0.000006	0.000004	0.0002	0.0036	0.0002	0.0002	0.00004
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0.00002	0.0015	0.40	0.0011	0.000005	0.0021	0.00006	0.0009	1.06	0.0007	0.79	0.000002	0.20	0.17	4.60	0.000007	0.000014	0.0002	0.0036	0.0001	0.0003	0.00005
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0.00002	0.0013	0.36	0.0010	0.000005	0.0017	0.00007	0.0009	0.91	0.0006	0.74	0.000002	0.15	0.17	4.50	0.000006	0.000009	0.0002	0.0038	0.0001	0.0001	0.00005
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0.00002	0.0015	0.42	0.0011	0.000005	0.0018	0.00004	0.0009	1.02	0.0008	0.88	0.000002	0.17	0.19	4.70	0.000005	0.000033	0.0002	0.0044	0.0002	0.0001	0.00005
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0.00002	0.0014	0.41	0.0011	0.000005	0.0014	0.00007	0.0009	0.95	0.0006	0.86	0.000003	0.15	0.18	4.65	0.000005	0.000005	0.0002	0.0038	0.0001	0.0002	0.00005
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0.00004	0.0014	0.39	0.0011	0.000005	0.0013	0.00011	0.0009	0.94	0.0006	0.77	0.000002	0.16	0.18	4.70	0.000006	0.000009	0.0002	0.0042	0.0001	0.0004	0.00005
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0.00002	0.0014	0.40	0.0011	0.000005	0.0013	0.00010	0.0009	0.95	0.0006	0.69	0.000002	0.14	0.17	4.50	0.000006	0.000104	0.0002	0.0029	0.0001	0.0002	0.00005
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0.00002	0.0014	0.41	0.0009	0.000005	0.0012	0.00010	0.0009	1.00	0.0007	0.81	0.000002	0.15	0.18	4.60	0.000006	0.000009	0.0002	0.0035	0.0001	0.0000	0.00005
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0.00002	0.0013	0.38	0.0009	0.000005	0.0012	0.00009	0.0009	0.93	0.0007	0.82	0.000002	0.13	0.17	4.65	0.000007	0.000014	0.0002	0.0033	0.0001	0.0002	0.00005
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0.00001	0.0014	0.44	0.0010	0.000004	0.0013	0.00005	0.0008	1.06	0.0006	0.90	0.000002	0.15	0.20	4.15	0.000005	0.000004	0.0002	0.0038	0.0001	0.0000	0.00004
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0.00002	0.0014	0.41	0.0008	0.000005	0.0010	0.00015	0.0009	1.01	0.0006	0.86	0.000002	0.14	0.20	4.55	0.000008	0.000005	0.0002	0.0035	0.0001	0.0001	0.00005
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0.00004	0.0013	0.39	0.0009	0.000004	0.0010	0.00009	0.0009	0.95	0.0006	0.77	0.000002	0.12	0.18	4.45	0.000005	0.000004	0.0002	0.0032	0.0001	0.0002	0.00004
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0.00002	0.0013	0.40	0.0007	0.000004	0.0011	0.00003	0.0009	0.90	0.0006	0.76	0.000002	0.10	0.19	4.45	0.000006	0.000004	0.0002	0.0034	0.0001	0.0000	0.00004
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0.00002	0.0013	0.41	0.0009	0.000005	0.0009	0.00016	0.0009	0.91	0.0005	0.76	0.000002	0.12	0.19	4.65	0.000007	0.000005	0.0002	0.0036	0.0001	0.0002	0.00005
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0.00006	0.0013	0.42	0.0007	0.000005	0.0021	0.00011	0.0009	0.84	0.0006	0.75	0.000002	0.10	0.19	4.55	0.000007	0.000014	0.0002	0.0035	0.0001	0.0002	0.00005
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0.00003	0.0012	0.39	0.0005	0.000005	0.0010	0.00008	0.0009	0.84	0.0005	0.66	0.000002	0.11	0.19	4.60	0.000006	0.000009	0.0003	0.0033	0.0001	0.0001	0.00005
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0.00005	0.0013	0.40	0.0006	0.000005	0.0009	0.00003	0.0009	0.76	0.0005	0.70	0.000002	0.11	0.19	4.65	0.000005	0.000005	0.0002	0.0032	0.0001	0.0002	0.00005
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--	0.0010	0.32	0.0011	0.000005	0.0008	0.00007	0.0009	0.66	0.0004	0.55	0.000002	0.07	0.15	4.60	0.000005	0.000005	0.0002	0.0026	0.0001	0.0002	0.00005
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0.00002	0.0010	0.35	0.0006	0.000005	0.0008	0.00009	0.0009	0.69	0.0004	0.47	0.000002	0.09	0.16	4.50	0.000005	0.000009	0.0002	0.0028	0.0001	0.0001	0.00005
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Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.00001	0.0010	0.35	0.0004	0.000005	0.0012	0.00007	0.0009	0.72	0.0004	0.54	0.000002	0.10	0.17	4.55	0.000005	0.000009	0.0002	0.0027	0.0001	0.0001	0.00005
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0.00001	0.0009	0.30	0.0003	0.000004	0.0009	0.00003	0.0009	0.62	0.0005	0.56	0.000002	0.07	0.15	4.45	0.000004	0.000009	0.0002	0.0023	0.0001	0.0000	0.00004
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0.00003	0.0010	0.34	0.0002	0.000004	0.0008	0.00005	0.0009	0.72	0.0005	0.60	0.000002	0.07	0.18	4.35	0.000008	0.000017	0.0002	0.0026	0.0001	0.0002	0.00004
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0.00002	0.0009	0.30	0.0005	0.000005	0.0008	0.00010	0.0009	0.63	0.0004	0.54	0.000002	0.08	0.15	4.65	0.000007	0.000014	0.0002	0.0023	0.0001	0.0006	0.00005
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0.00002	0.0009	0.26	0.0004	0.000005	0.0010	0.00003	0.0010	0.53	0.0004	0.50	0.000002	0.07	0.14	4.80	0.000005	0.000048	0.0002	0.0023	0.0001	0.0002	0.00005
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0.00002	0.0004	0.14	0.0006	0.000004	0.0007	0.00010	0.0009	0.28	0.0002	0.24	0.000002	0.07	0.07	4.40	0.000004	0.000026	0.0002	0.0010	0.0001	0.0002	0.00004
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0.00002	0.0006	0.19	0.0007	0.000005	0.0007	0.00012	0.0010	0.43	0.0003	0.35	0.000002	0.07	0.10	4.75	0.000006	0.000057	0.0002	0.0016	0.0002	0.0003	0.00005

HC 8
Sample = DG05-308C 12.19-18.00
Sample Wt. (kg) 1

							Concentrations																																
Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Jan-10	0	500	395	7.36	351	107	5.46	20.11	21	1.2	0.16	35.9	0.0848	0.00169	0.0643	0.00053	0.00001	0.000005	0.05	0.000008	13.1	0.0001	0.000028	0.0009	0.004	0.000006	0.0025	0.8	0.0037	0.00001	0.00239	0.00022	0.004	1.98	0.00088	1.7
21-Jan-10	1	500	505	7.48	366	66	2.41	20.07	14	0.7	0.1	28.9	0.0603	0.00177	0.0476	0.00065	0.00001	0.000005	0.05	0.000005	10.5	0.0001	0.00005	0.00196	0.006	0.000015	0.0015	0.65	0.0048	0.00001	0.00303	0.00039	0.002	1.7	0.00075	1.66
28-Jan-10	2	500	505	7.40	355	41	3.96	21.88	7	0.5	0.1	20.7	0.0512	0.00152	0.0445	0.00042	0.00001	0.000005	0.05	0.000005	7.53	0.0002	0.000035	0.00045	0.005	0.000016	0.0011	0.46	0.0039	0.00001	0.00257	0.00027	0.002	1.39	0.00059	1.53
4-Feb-10	3	500	470	7.02	288	29	3.67	13.75	2	0.5	0.08	13	0.0477	0.00114	0.0417	0.0004	0.00001	0.000005	0.05	0.000005	4.73	0.0001	0.000038	0.00038	0.008	0.000038	0.0008	0.3	0.0028	0.00001	0.0017	0.00026	0.002	1.02	0.00043	1.16
11-Feb-10	4	500	470	6.99	353	24	2.85	10.84	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	5	500	460	7.09	327	24	3.62	11.99	1	0.5	0.05	10.9	0.0488	0.00086	0.0353	0.00038	0.00001	0.000005	0.05	0.000005	3.95	0.0001	0.000038	0.00049	0.01	0.000047	0.0006	0.25	0.0026	0.00001	0.00119	0.00027	0.002	0.96	0.00025	1.01
25-Feb-10	6	500	440	7.17	355	19	3.24	10.04	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Mar-10	7	500	445	7.09	370	19	2.99	9.21	2	0.5	0.04	9.1	0.0457	0.00076	0.0385	0.00055	0.00001	0.000005	0.05	0.000005	3.31	0.0001	0.000041	0.00031	0.014	0.000066	0.0007	0.21	0.002	0.00001	0.00079	0.00025	0.002	0.88	0.00025	0.96
11-Mar-10	8	500	470	7.05	376	16	3.63	8.6	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	9	500	475	7.18	369	19	3.24	10.13	1	0.5	0.04	8.2	0.0312	0.00075	0.0293	0.00045	0.00001	0.000005	0.05	0.000005	2.95	0.0001	0.000034	0.00043	0.006	0.000007	0.0006	0.19	0.0019	0.00001	0.0006	0.00026	0.002	0.71	0.00018	0.83
25-Mar-10	10	500	480	7.36	359	19	3.83	10.43	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	11	500	455	7.28	374	16	3.15	9.28	2	--	0.02	7.5	0.0363	0.00071	0.0286	0.00046	0.00001	0.000005	0.05	0.000005	2.72	0.0001	0.000037	0.00072	0.01	0.00012	0.0006	0.18	0.0015	0.00001	0.00053	0.00027	0.002	0.72	0.00016	0.8
8-Apr-10	12	500	475	7.20	351	17	3.27	9.04	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Apr-10	13	500	485	7.11	333	18	3.42	9.94	2	0.5	0.04	8.1	0.0328	0.00074	0.0275	0.00034	0.00001	0.000005	0.05	0.000005	2.93	0.0002	0.000032	0.00064	0.008	0.000059	0.0005	0.18	0.0014	0.00001	0.00067	0.00022	0.002	0.71	0.00017	0.79
22-Apr-10	14	500	490	7.40	340	15	4.24	9.2	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Apr-10	15	500	480	7.29	343	17	2.28	8.86	5	0.5	0.05	7.4	0.0273	0.00066	0.0256	0.00032	0.00001	0.000016	0.05	0.000005	2.69	0.0001	0.000037	0.00026	0.007	0.000011	0.0005	0.15	0.0014	0.00001	0.00066	0.00023	0.002	0.64	0.00017	0.75
6-May-10	16	500	490	7.28	321	16	4.46	9.46	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-May-10	17	500	475	7.27	331	17	3.38	8.89	2	0.5	0.04	7.5	0.0257	0.00065	0.0271	0.00025	0.00001	0.000005	0.05	0.000005	2.74	0.0001	0.000025	0.00017	0.005	0.000027	0.0007	0.16	0.0013	0.00001	0.00068	0.00016	0.002	0.67	0.00017	0.95
20-May-10	18	500	455	7.50	348	13	3.66	7.84	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-May-10	19	500	465	7.53	358	14	4.75	10.51	1	0.5	0.03	6.9	0.028	0.00053	0.0233	0.00035	0.00001	0.000005	0.05	0.000005	2.52	0.0001	0.00005	0.00028	0.008	0.00019	0.0005	0.14	0.0012	0.00001	0.00068	0.00014	0.002	0.62	0.00015	0.84
3-Jun-10	20	500	495	7.25	343	14	2.74	8.33	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Jun-10	21	500	460	7.42	305	17	3.96	12.13	1	0.5	0.02	7.2	0.0453	0.0005	0.0302	0.00031	0.00001	0.000005	0.05	0.000005	2.63	0.0002	0.000028	0.00027	0.007	0.000015	0.0005	0.16	0.001	0.00001	0.00077	0.00017	0.002	0.72	0.00023	0.66
17-Jun-10	22	500	475	7.48	330	17	3.53	11.06	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Jun-10	23	500	480	7.40	408	18	2.61	11.43	5	0.5	0.1	8.1	0.0341	0.00063	0.0328	0.00035	0.00001	0.000005	0.05	0.000005	2.94	0.0001	0.000026	0.00032	0.007	0.000006	0.0005	0.18	0.001	0.00001	0.00094	0.00018	0.002	0.83	0.0003	0.9
1-Jul-10	24	500	475	7.38	417	17	2.62	10.61	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Jul-10	25	500	480	7.15	317	17	2.49	9.65	4	0.5	0.02	8	0.0425	0.00054	0.0335	0.00034	0.00001	0.000007	0.05	0.000005	2.9	0.0001	0.000019	0.00014	0.006	0.000005	0.0005	0.18	0.0011	0.00001	0.00079	0.0002	0.002	0.76	0.00022	0.92
15-Jul-10	26	500	475	7.37	328	16	3.56	9.75	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Jul-10	27	500	485	7.15	345	16	3.75	10.17	1	0.5	0.02	7.7	0.0291	0.00048	0.0284	0.00033	0.00001	0.000005	0.05	0.000005	2.82	0.0001	0.000016	0.00015	0.006	0.000007	0.0005	0.17	0.0008	0.00001	0.00061	0.00016	0.002	0.71	0.00018	0.79
29-Jul-10	28	500	520	7.23	327	14	4.01	9.09	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-Aug-10	29	500	480	7.32	329	16	2.32	9.59	3	0.5	0.02	7.9	0.0254	0.00046	0.0303	0.00074	0.00001	0.000005	0.05	0.000005	2.87	0.0002	0.000029	0.00045	0.003	0.000014	0.0005	0.17	0.0009	0.00001	0.00053	0.00049	0.002	0.74	0.00016	0.84
12-Aug-10	30	500	470	7.44	402	15	4.3	10.19	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Aug-10	31	500	455	7.51	379	13	4.62	9.41	1	0.5	0.05	6.3	0.0379	0.00037	0.0252	0.00068	0.00001	0.000005	0.05	0.000005	2.31	0.0001	0.000089	0.00049	0.012	0.000007	0.0005	0.14	0.002	0.00001	0.00044	0.00043	0.002	0.63	0.00017	0.67
26-Aug-10	32	500	475	7.08	350	14	3.16	8.19	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Sep-10	33	500	455	7.42	375	14	3.53	9.49	5	0.5	0.06	7.4	0.0266	0.00039	0.0247	0.00044	0.00001	0.000005	0.05	0.000005	2.69	0.0001	0.000028	0.00043	0.007	0.000005	0.0005	0.16	0.0011	0.00001	0.00061	0.00023	0.002	0.65	0.00021	0.78
9-Sep-10	34	500	475	7.04	354	14	4.54	9.15	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Sep-10	35	500	465	6.99	349	11	2.92	8.14	3	0.5	0.01	6.4	0.0262	0.00037	0.0225	0.00049	0.00001	0.000005	0.05	0.000005	2.35	0.0002	0.000028	0.00024	0.005	0.000011	0.0005	0.13	0.0009	0.00001	0.00038	0.00028	0.002	0.62	0.00013	0.68

Cell Terminated

HC 8
Sample = DG05-308C 12.19-18.00
Sample Wt. (kg) 1 **Loadings**

Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
0.000005	2.3	0.0917	8	0.000006	0.00001	0.0008	0.00565	0.0003	0.0003	0.0001
0.000006	1.67	0.0732	5	0.000008	0.00001	0.0005	0.00693	0.0003	0.0004	0.0001
0.000005	1.07	0.0547	3	0.000003	0.00014	0.0005	0.00569	0.0003	0.0003	0.0001
0.000005	0.68	0.0369	3	0.000004	0.00014	0.0006	0.00314	0.0002	0.0004	0.0001
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0.000005	0.52	0.0294	3	0.000004	0.00013	0.0006	0.00217	0.0002	0.0004	0.0001
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0.000005	0.37	0.025	2	0.000003	0.00003	0.001	0.0015	0.0002	0.0003	0.0001
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0.000005	0.31	0.023	10	0.000002	0.00001	0.0005	0.00185	0.0002	0.0003	0.0001
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0.000023	0.25	0.0216	2	0.000004	0.00001	0.0008	0.00156	0.0002	0.0014	0.0001
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0.000006	0.25	0.0231	10	0.000004	0.00008	0.0005	0.00174	0.0002	0.001	0.0001
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0.000005	0.19	0.0211	10	0.000003	0.00001	0.0005	0.00147	0.0002	0.0005	0.0001
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0.000005	0.18	0.0202	10	0.000012	0.00002	0.0005	0.00143	0.0002	0.0003	0.0001
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0.000005	0.14	0.0194	10	0.000003	0.00001	0.0005	0.00118	0.0002	0.0001	0.0001
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0.000005	0.18	0.0215	10	0.000005	0.00001	0.0005	0.00115	0.0002	0.0002	0.0001
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0.000005	0.19	0.0243	10	0.000002	0.00001	0.0005	0.00141	0.0002	0.0004	0.0001
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0.000005	0.19	0.0209	10	0.000005	0.00001	0.0005	0.00127	0.0002	0.0001	0.0001
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0.000005	0.16	0.0213	10	0.000004	0.00001	0.0005	0.00141	0.0002	0.0001	0.0001
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0.000005	0.16	0.0205	10	0.000003	0.00001	0.0005	0.00154	0.0002	0.0003	0.0001
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0.000005	0.18	0.0183	10	0.000003	0.00001	0.0005	0.000977	0.0002	0.0002	0.0001
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0.000005	0.14	0.0186	10	0.000004	0.00004	0.0005	0.00107	0.0002	0.0003	0.0001
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0.000005	0.16	0.0178	10	0.000002	0.00001	0.0005	0.000848	0.0002	0.0001	0.0001

Date	Cycle	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe
		mgCaCO3/kg/wk	mgCaCO3/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
14-Jan-10	0	2.16	7.94	8.30	0.47	0.06	0.0335	0.0007	0.0254	0.0002	0.000004	0.000002	0.0198	0.000003	5.17	0.00004	0.00001	0.0004	0.0016
21-Jan-10	1	1.22	10.14	7.07	0.35	0.05	0.0305	0.0009	0.0240	0.0003	0.000005	0.000003	0.0253	0.000003	5.30	0.00005	0.00003	0.0010	0.0030
28-Jan-10	2	2.00	11.05	3.54	0.25	0.05	0.0259	0.0008	0.0225	0.0002	0.000005	0.000003	0.0253	0.000003	3.80	0.00010	0.00002	0.0002	0.0025
4-Feb-10	3	1.72	6.46	0.94	0.24	0.04	0.0224	0.0005	0.0196	0.0002	0.000005	0.000002	0.0235	0.000002	2.22	0.00005	0.00002	0.0002	0.0038
11-Feb-10	4	1.34	5.09	1.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	5	1.67	5.52	0.46	0.23	0.02	0.0224	0.0004	0.0162	0.0002	0.000005	0.000002	0.0230	0.000002	1.82	0.00005	0.00002	0.0002	0.0046
25-Feb-10	6	1.43	4.42	2.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Mar-10	7	1.33	4.10	0.89	0.22	0.02	0.0203	0.0003	0.0171	0.0002	0.000004	0.000002	0.0223	0.000002	1.47	0.00004	0.00002	0.0001	0.0062
11-Mar-10	8	1.71	4.04	0.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	9	1.54	4.81	0.48	0.24	0.02	0.0148	0.0004	0.0139	0.0002	0.000005	0.000002	0.0238	0.000002	1.40	0.00005	0.00002	0.0002	0.0029
25-Mar-10	10	1.84	5.01	0.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	11	1.43	4.22	0.91	--	0.01	0.0165	0.0003	0.0130	0.0002	0.000005	0.000002	0.0228	0.000002	1.24	0.00005	0.00002	0.0003	0.0046
8-Apr-10	12	1.55	4.29	1.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Apr-10	13	1.66	4.82	0.97	0.24	0.02	0.0159	0.0004	0.0133	0.0002	0.000005	0.000002	0.0243	0.000002	1.42	0.00010	0.00002	0.0003	0.0039
22-Apr-10	14	2.08	4.51	1.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Apr-10	15	1.09	4.25	2.40	0.24	0.02	0.0131	0.0003	0.0123	0.0002	0.000005	0.000008	0.0240	0.000002	1.29	0.00005	0.00002	0.0001	0.0034
6-May-10	16	2.19	4.64	0.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-May-10	17	1.61	4.22	0.95	0.24	0.02	0.0122	0.0003	0.0129	0.0001	0.000005	0.000002	0.0238	0.000002	1.30	0.00005	0.00001	0.0001	0.0024
20-May-10	18	1.67	3.57	0.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-May-10	19	2.21	4.89	0.47	0.23	0.01	0.0130	0.0002	0.0108	0.0002	0.000005	0.000002	0.0233	0.000002	1.17	0.00005	0.00002	0.0001	0.0037
3-Jun-10	20	1.36	4.12	1.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Jun-10	21	1.82	5.58	0.46	0.23	0.01	0.0208	0.0002	0.0139	0.0001	0.000005	0.000002	0.0230	0.000002	1.21	0.00009	0.00001	0.0001	0.0032
17-Jun-10	22	1.68	5.25	0.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Jun-10	23	1.25	5.49	2.40	0.24	0.05	0.0164	0.0003	0.0157	0.0002	0.000005	0.000002	0.0240	0.000002	1.41	0.00005	0.00001	0.0002	0.0034
1-Jul-10	24	1.24	5.04	0.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Jul-10	25	1.20	4.63	1.92	0.24	0.01	0.0204	0.0003	0.0161	0.0002	0.000005	0.000003	0.0240	0.000002	1.39	0.00005	0.00001	0.0001	0.0029
15-Jul-10	26	1.69	4.63	0.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Jul-10	27	1.82	4.93	0.49	0.24	0.01	0.0141	0.0002	0.0138	0.0002	0.000005	0.000002	0.0243	0.000002	1.37	0.00005	0.00001	0.0001	0.0029
29-Jul-10	28	2.09	4.73	1.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-Aug-10	29	1.11	4.60	1.44	0.24	0.01	0.0122	0.0002	0.0145	0.0004	0.000005	0.000002	0.0240	0.000002	1.38	0.00010	0.00001	0.0002	0.0014
12-Aug-10	30	2.02	4.79	0.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Aug-10	31	2.10	4.28	0.46	0.23	0.02	0.0172	0.0002	0.0115	0.0003	0.000005	0.000002	0.0228	0.000002	1.05	0.00005	0.00004	0.0002	0.0055
26-Aug-10	32	1.50	3.89	0.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Sep-10	33	1.61	4.32	2.28	0.23	0.03	0.0121	0.0002	0.0112	0.0002	0.000005	0.000002	0.0228	0.000002	1.22	0.00005	0.00001	0.0002	0.0032
9-Sep-10	34	2.16	4.35	0.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Sep-10	35	1.36	3.79	1.40	0.23	0.00	0.0122	0.0002	0.0105	0.0002	0.000005	0.000002	0.0233	0.000002	1.09	0.00009	0.00001	0.0001	0.0023

Cell Terminated

Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.000002	0.0010	0.32	0.0015	0.000004	0.0009	0.00009	0.0016	0.78	0.0003	0.67	0.000002	0.91	0.0362	3.16	0.000002	0.000004	0.0003	0.0022	0.0001	0.00012	0.00004
0.000008	0.0008	0.33	0.0024	0.000005	0.0015	0.00020	0.0010	0.86	0.0004	0.84	0.000003	0.84	0.0370	2.53	0.000004	0.000005	0.0003	0.0035	0.0002	0.00020	0.00005
0.000008	0.0006	0.23	0.0020	0.000005	0.0013	0.00014	0.0010	0.70	0.0003	0.77	0.000003	0.54	0.0276	1.52	0.000002	0.000071	0.0003	0.0029	0.0002	0.00015	0.00005
0.000018	0.0004	0.14	0.0013	0.000005	0.0008	0.00012	0.0009	0.48	0.0002	0.55	0.000002	0.32	0.0173	1.41	0.000002	0.000066	0.0003	0.0015	0.0001	0.00019	0.00005
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0.000022	0.0003	0.12	0.0012	0.000005	0.0005	0.00012	0.0009	0.44	0.0001	0.46	0.000002	0.24	0.0135	1.38	0.000002	0.000060	0.0003	0.0010	0.0001	0.00018	0.00005
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0.000029	0.0003	0.09	0.0009	0.000004	0.0004	0.00011	0.0009	0.39	0.0001	0.43	0.000002	0.16	0.0111	0.89	0.000001	0.000013	0.0004	0.0007	0.0001	0.00013	0.00004
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0.000003	0.0003	0.09	0.0009	0.000005	0.0003	0.00012	0.0010	0.34	0.0001	0.39	0.000002	0.15	0.0109	4.75	0.000001	0.000005	0.0002	0.0009	0.0001	0.00014	0.00005
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0.000055	0.0003	0.08	0.0007	0.000005	0.0002	0.00012	0.0009	0.33	0.0001	0.37	0.000010	0.11	0.0098	0.91	0.000002	0.000005	0.0004	0.0007	0.0001	0.00064	0.00005
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0.000029	0.0002	0.09	0.0007	0.000005	0.0003	0.00011	0.0010	0.34	0.0001	0.38	0.000003	0.12	0.0112	4.85	0.000002	0.000039	0.0002	0.0008	0.0001	0.00049	0.00005
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0.000005	0.0002	0.07	0.0007	0.000005	0.0003	0.00011	0.0010	0.31	0.0001	0.36	0.000002	0.09	0.0101	4.80	0.000001	0.000005	0.0002	0.0007	0.0001	0.00024	0.00005
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0.000013	0.0003	0.08	0.0006	0.000005	0.0003	0.00008	0.0010	0.32	0.0001	0.45	0.000002	0.09	0.0096	4.75	0.000006	0.000010	0.0002	0.0007	0.0001	0.00014	0.00005
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0.000088	0.0002	0.07	0.0005	0.000005	0.0003	0.00007	0.0009	0.29	0.0001	0.39	0.000002	0.07	0.0090	4.65	0.000001	0.000005	0.0002	0.0005	0.0001	0.00005	0.00005
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0.000007	0.0002	0.07	0.0005	0.000005	0.0004	0.00008	0.0009	0.33	0.0001	0.30	0.000002	0.08	0.0099	4.60	0.000002	0.000005	0.0002	0.0005	0.0001	0.00009	0.00005
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0.000003	0.0002	0.09	0.0005	0.000005	0.0005	0.00009	0.0010	0.40	0.0001	0.43	0.000002	0.09	0.0117	4.80	0.000001	0.000005	0.0002	0.0007	0.0001	0.00019	0.00005
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0.000002	0.0002	0.09	0.0005	0.000005	0.0004	0.00010	0.0010	0.36	0.0001	0.44	0.000002	0.09	0.0100	4.80	0.000002	0.000005	0.0002	0.0006	0.0001	0.00005	0.00005
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0.000003	0.0002	0.08	0.0004	0.000005	0.0003	0.00008	0.0010	0.34	0.0001	0.38	0.000002	0.08	0.0103	4.85	0.000002	0.000005	0.0002	0.0007	0.0001	0.00005	0.00005
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0.000007	0.0002	0.08	0.0004	0.000005	0.0003	0.00024	0.0010	0.36	0.0001	0.40	0.000002	0.08	0.0098	4.80	0.000001	0.000005	0.0002	0.0007	0.0001	0.00014	0.00005
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0.000003	0.0002	0.06	0.0009	0.000005	0.0002	0.00020	0.0009	0.29	0.0001	0.30	0.000002	0.08	0.0083	4.55	0.000001	0.000005	0.0002	0.0004	0.0001	0.00009	0.00005
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0.000002	0.0002	0.07	0.0005	0.000005	0.0003	0.00010	0.0009	0.30	0.0001	0.35	0.000002	0.06	0.0085	4.55	0.000002	0.000018	0.0002	0.0005	0.0001	0.00014	0.00005
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0.000005	0.0002	0.06	0.0004	0.000005	0.0002	0.00013	0.0009	0.29	0.0001	0.32	0.000002	0.07	0.0083	4.65	0.000001	0.000005	0.0002	0.0004	0.0001	0.00005	0.00005

HC 9

Sample = DG06-311C 130.45-140.45

Sample Wt. (kg) 1

Concentrations

Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Jan-10	0	500	375	7.77	349	225	4.14	34.62	56	11	0.54	74.9	0.0865	0.00849	0.00411	0.0223	0.00001	0.000011	0.05	0.000007	25.4	0.0001	0.000198	0.00431	0.003	0.000019	0.0112	2.78	0.0053	0.00001	0.00176	0.00246	0.005	6.83	0.00531	1.42
21-Jan-10	1	500	510	7.81	375	195	2.33	43.81	57	3	0.49	72.3	0.0844	0.0354	0.00507	0.0185	0.00001	0.000012	0.05	0.000005	24.4	0.0001	0.000164	0.00523	0.003	0.000021	0.0131	2.76	0.0062	0.00001	0.00278	0.00546	0.004	7.4	0.00409	1.85
28-Jan-10	2	500	490	7.64	361	83	3.42	35.22	13	0.7	0.37	33.3	0.101	0.0288	0.00349	0.00758	0.00001	0.000055	0.05	0.00037	11.4	0.0001	0.000038	0.00113	0.005	0.0024	0.0065	1.21	0.0043	0.00001	0.00161	0.00109	0.002	3.88	0.00131	1.41
4-Feb-10	3	500	495	7.55	264	79	2.85	36.36	8	0.5	0.33	36.1	0.0901	0.0332	0.0034	0.00791	0.00001	0.000018	0.05	0.000005	12.3	0.0003	0.000036	0.00072	0.004	0.000058	0.0065	1.29	0.0049	0.00001	0.00122	0.00052	0.002	3.71	0.001	1.53
11-Feb-10	4	500	505	7.55	331	99	2.57	33.36	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	5	500	480	7.41	331	105	3.44	27.5	27	0.5	0.19	48	0.101	0.0198	0.00186	0.00976	0.00001	0.000016	0.05	0.000008	16.4	0.0001	0.000064	0.00063	0.003	0.000027	0.0057	1.7	0.0082	0.00001	0.00053	0.00032	0.003	3.22	0.0006	1.31
25-Feb-10	6	500	495	7.63	358	112	2.64	31.62	33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Mar-10	7	500	500	7.64	373	108	2.35	29.32	30	0.5	0.2	55.9	0.0885	0.0226	0.00193	0.0107	0.00001	0.000022	0.05	0.000011	19.3	0.0003	0.000074	0.00048	0.002	0.000017	0.0062	1.86	0.0093	0.00001	0.00049	0.00025	0.002	3.27	0.00073	1.65
11-Mar-10	8	500	505	7.51	385	103	3.29	29.45	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	9	500	505	7.48	387	98	2.98	29.48	15	0.5	0.19	43.4	0.0937	0.0204	0.00214	0.0082	0.00001	0.000022	0.05	0.00001	15	0.0001	0.000058	0.00053	0.002	0.000063	0.0049	1.47	0.0083	0.00001	0.00039	0.00029	0.002	2.45	0.00072	1.57
25-Mar-10	10	500	520	7.61	371	89	3.35	28.91	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	11	500	510	7.66	385	92	2.53	30.98	20	0.5	0.15	43.9	0.0996	0.0186	0.00183	0.00801	0.00001	0.000027	0.05	0.000033	15.3	0.0001	0.000057	0.00081	0.009	0.000188	0.0043	1.41	0.009	0.00001	0.00034	0.00034	0.002	2.24	0.00066	1.59
8-Apr-10	12	500	495	7.72	366	96	2.35	33.03	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Apr-10	13	500	510	7.55	347	101	3.54	32.42	22	0.5	0.15	44.9	0.103	0.0179	0.00175	0.00837	0.00001	0.000024	0.05	0.000016	15.6	0.0002	0.000075	0.00046	0.007	0.000068	0.0042	1.46	0.0098	0.00001	0.00036	0.00027	0.003	2.28	0.00069	1.64
22-Apr-10	14	500	515	7.61	352	103	4.29	32.18	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Apr-10	15	500	495	7.60	357	90	2.7	29.82	17	0.5	0.17	50.7	0.0823	0.0158	0.00189	0.00655	0.00001	0.000013	0.05	0.000011	18	0.0002	0.00006	0.00044	0.002	0.000022	0.0032	1.38	0.0108	0.00001	0.00033	0.00024	0.002	1.95	0.00051	1.21
6-May-10	16	500	520	7.52	345	82	4.44	30.99	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-May-10	17	500	500	7.52	348	82	3.23	26.92	15	0.5	0.09	41.4	0.105	0.0112	0.00145	0.00553	0.00001	0.000014	0.05	0.000005	14.8	0.0001	0.000031	0.00039	0.003	0.000024	0.0025	1.09	0.0087	0.00001	0.00025	0.00017	0.002	1.49	0.00053	1.63
20-May-10	18	500	465	7.55	372	72	3.81	24.12	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-May-10	19	500	470	7.49	383	64	5.36	24.94	8	0.5	0.07	33.8	0.0984	0.00751	0.00115	0.00451	0.00001	0.000012	0.05	0.000008	12.2	0.0001	0.000024	0.00021	0.002	0.000028	0.002	0.81	0.0073	0.00001	0.00023	0.00004	0.002	1	0.00043	1.09
3-Jun-10	20	500	465	7.57	359	74	2.7	24.32	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Jun-10	21	500	465	7.46	333	81	4.4	28.97	9	0.5	0.11	31.1	0.113	0.0105	0.00179	0.00529	0.00001	0.000021	0.05	0.000009	10.6	0.0004	0.000036	--	0.003	0.000027	0.0026	1.11	0.0063	0.00001	0.00029	0.00015	0.002	1.64	0.0008	1.29
17-Jun-10	22	500	475	7.58	345	72	3.38	26.89	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Jun-10	23	500	460	7.70	408	73	2.29	29.02	8	0.5	0.1	32.2	0.119	0.0102	0.00161	0.00511	0.00001	0.000015	0.05	0.000005	11.2	0.0001	0.000022	0.00033	0.005	0.000016	0.0026	1.05	0.0066	0.00001	0.00031	0.00011	0.002	1.52	0.00079	1.5
1-Jul-10	24	500	480	7.63	418	65	2.33	26.22	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Jul-10	25	500	455	7.55	339	64	2.26	24.7	8	0.5	0.07	27.9	0.095	0.00774	0.00136	0.00419	0.00001	0.000016	0.05	0.000005	9.68	0.0001	0.000023	0.00043	0.003	0.000035	0.0019	0.9	0.0055	0.00001	0.0003	0.00012	0.002	1.17	0.00059	1.28
15-Jul-10	26	500	470	7.42	342	57	3.35	22.01	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Jul-10	27	500	480	7.40	361	62	3.6	23.31	7	0.5	0.06	27.4	0.0843	0.00742	0.00127	0.00409	0.00001	0.00001	0.05	0.000005	9.56	0.0001	0.000026	0.0004	0.003	0.000016	0.0019	0.86	0.0052	0.00001	0.00024	0.00018	0.002	1.03	0.0006	1.15
29-Jul-10	28	500	520	7.52	340	58	3.96	23.28	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-Aug-10	29	500	475	7.52	349	54	2.4	21.83	4	0.5	0.05	25.4	0.0762	0.00628	0.00093	0.00428	0.00001	0.000007	0.05	0.000005	8.91	0.0001	0.000022	0.00023	0.002	0.000011	0.0016	0.76	0.0033	0.00001	0.00021	0.00021	0.002	0.92	0.00051	1.13
12-Aug-10	30	500	485	7.46	400	62	4.4	24.74	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Aug-10	31	500	455	7.48	376	67	5.5	27.23	8	0.5	0.07	31.9	0.107	0.00595	0.00117	0.00511	0.00001	0.000015	0.05	0.000005	11.2	0.0002	0.000022	0.00053	0.005	0.00003	0.0019	0.97	0.0058	0.00001	0.00025	0.00019	0.002	1.06	0.00068	1.32
26-Aug-10	32	500	465	7.51	365	64	2.86	26.01	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Sep-10	33	500	465	7.45	399	56	3.82	26.75	12	0.5	0.06	29.3	0.0978	0.00565	0.00106	0.0042	0.00001	0.000011	0.05	0.000005	10.2	0.0001	0.000018	0.00068	0.004	0.000021	0.0017	0.93	0.0042	0.00001	0.00034	0.00014	0.002	1.04	0.00064	1.11
9-Sep-10	34	500	445	7.19	375	63	4.66	23.33	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Sep-10	35	500	450	7.43	366	64	2.88	25.24	13	0.5	0.06	32	0.0938	0.00615	0.0011	0.00523	0.00001	0.000006	0.05	0.000008	11.2	0.0002	0.000022	0.00039	0.002	0.000034	0.0019	1	0.0041	0.00001	0.00028	0.0002	0.002	1.12	0.0006	1.36

Cell Terminated

HC 9
Sample = DG06-311C 130.45-140.45
Sample Wt. (kg) 1 **Loadings**

Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
0.00001	14.7	0.933	26	0.000013	0.00002	0.0006	0.053	0.0006	0.0005	0.0001
0.000006	13.8	0.823	19	0.000016	0.00002	0.0006	0.141	0.0004	0.0005	0.0001
0.000005	5.06	0.376	5	0.000008	0.00015	0.0005	0.0631	0.0002	0.0003	0.0001
0.000005	4.09	0.409	4	0.000009	0.00017	0.0005	0.0797	0.0004	0.0008	0.0001
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0.000005	2.07	0.547	10	0.00001	0.00014	0.0005	0.0774	0.0002	0.0007	0.0001
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0.000005	1.46	0.572	10	0.000012	0.00002	0.0005	0.0756	0.0002	0.0006	0.0001
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0.000005	0.88	0.474	10	0.000012	0.00001	0.0005	0.0575	0.0002	0.0008	0.0001
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0.00001	0.69	0.466	7	0.00001	0.00009	0.0005	0.0535	0.0003	--	0.0001
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0.000006	0.6	0.491	10	0.000011	0.00007	0.0005	0.0537	0.0002	0.001	0.0001
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0.000005	0.47	0.432	10	0.000008	0.00001	0.0005	0.0433	0.0002	0.0009	0.0001
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0.000005	0.35	0.346	10	0.000011	0.00001	0.0005	0.0305	0.0003	0.0007	0.0001
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0.000005	0.24	0.299	10	0.000006	0.00001	0.0005	0.0218	0.0002	0.0003	0.0001
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0.000005	0.43	0.369	10	0.000006	0.00001	0.0005	0.024	0.0004	0.001	0.0001
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0.000005	0.39	0.347	10	0.000008	0.00001	0.0005	0.0236	0.0003	0.0003	0.0001
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0.000005	0.31	0.276	10	0.000006	0.00001	0.0005	0.0208	0.0002	0.0002	0.0001
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0.000005	0.28	0.28	10	0.000005	0.00002	0.0005	0.0213	0.0003	0.0004	0.0001
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0.000005	0.26	0.234	10	0.000005	0.00002	0.0005	0.0184	0.0002	0.0001	0.0001
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0.000005	0.33	0.309	10	0.000005	0.00001	0.0005	0.0164	0.0003	0.0004	0.0001
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0.000005	0.28	0.27	10	0.000007	0.00003	0.0005	0.0144	0.0002	0.0003	0.0001
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0.000005	0.28	0.312	10	0.000006	0.00001	0.0005	0.0154	0.0004	0.0006	0.0001

Date	Cycle	Acidity (pH 8.3) mgCaCO3/kg/wk	Alkalinity mgCaCO3/kg/wk	Sulphate mg/kg/wk	Chloride mg/kg/wk	Fluoride mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk
14-Jan-10	0	1.55	12.98	21.00	4.13	0.20	0.0324	0.0032	0.0015	0.0084	0.000004	0.000004	0.0188	0.000003	9.53	0.00004	0.00007	0.0016	0.0011
21-Jan-10	1	1.19	22.34	29.07	1.53	0.25	0.0430	0.0181	0.0026	0.0094	0.000005	0.000006	0.0255	0.000003	12.44	0.00005	0.00008	0.0027	0.0015
28-Jan-10	2	1.68	17.26	6.37	0.34	0.18	0.0495	0.0141	0.0017	0.0037	0.000005	0.000027	0.0245	0.000181	5.59	0.00005	0.00002	0.0006	0.0025
4-Feb-10	3	1.41	18.00	3.96	0.25	0.16	0.0446	0.0164	0.0017	0.0039	0.000005	0.000009	0.0248	0.000002	6.09	0.00015	0.00002	0.0004	0.0020
11-Feb-10	4	1.30	16.85	11.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	5	1.65	13.20	12.96	0.24	0.09	0.0485	0.0095	0.0009	0.0047	0.000005	0.000008	0.0240	0.000004	7.87	0.00005	0.00003	0.0003	0.0014
25-Feb-10	6	1.31	15.65	16.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Mar-10	7	1.18	14.66	15.00	0.25	0.10	0.0443	0.0113	0.0010	0.0054	0.000005	0.000011	0.0250	0.000006	9.65	0.00015	0.00004	0.0002	0.0010
11-Mar-10	8	1.66	14.87	10.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	9	1.50	14.89	7.58	0.25	0.10	0.0473	0.0103	0.0011	0.0041	0.000005	0.000011	0.0253	0.000005	7.58	0.00005	0.00003	0.0003	0.0010
25-Mar-10	10	1.74	15.03	9.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	11	1.29	15.80	10.20	0.26	0.08	0.0508	0.0095	0.0009	0.0041	0.000005	0.000014	0.0255	0.000017	7.80	0.00005	0.00003	0.0004	0.0046
8-Apr-10	12	1.16	16.35	8.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Apr-10	13	1.81	16.53	11.22	0.26	0.08	0.0525	0.0091	0.0009	0.0043	0.000005	0.000012	0.0255	0.000008	7.96	0.00010	0.00004	0.0002	0.0036
22-Apr-10	14	2.21	16.57	11.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Apr-10	15	1.34	14.76	8.42	0.25	0.08	0.0407	0.0078	0.0009	0.0032	0.000005	0.000006	0.0248	0.000005	8.91	0.00010	0.00003	0.0002	0.0010
6-May-10	16	2.31	16.11	6.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-May-10	17	1.62	13.46	7.50	0.25	0.05	0.0525	0.0056	0.0007	0.0028	0.000005	0.000007	0.0250	0.000003	7.40	0.00005	0.00002	0.0002	0.0015
20-May-10	18	1.77	11.22	6.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-May-10	19	2.52	11.72	3.76	0.24	0.03	0.0462	0.0035	0.0005	0.0021	0.000005	0.000006	0.0235	0.000004	5.73	0.00005	0.00001	0.0001	0.0009
3-Jun-10	20	1.26	11.31	4.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Jun-10	21	2.05	13.47	4.19	0.23	0.05	0.0525	0.0049	0.0008	0.0025	0.000005	0.000010	0.0233	0.000004	4.93	0.00019	0.00002	--	0.0014
17-Jun-10	22	1.61	12.77	2.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Jun-10	23	1.05	13.35	3.68	0.23	0.05	0.0547	0.0047	0.0007	0.0024	0.000005	0.000007	0.0230	0.000002	5.15	0.00005	0.00001	0.0002	0.0023
1-Jul-10	24	1.12	12.59	3.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Jul-10	25	1.03	11.24	3.64	0.23	0.03	0.0432	0.0035	0.0006	0.0019	0.000005	0.000007	0.0228	0.000002	4.40	0.00005	0.00001	0.0002	0.0014
15-Jul-10	26	1.57	10.34	2.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Jul-10	27	1.73	11.19	3.36	0.24	0.03	0.0405	0.0036	0.0006	0.0020	0.000005	0.000005	0.0240	0.000002	4.59	0.00005	0.00001	0.0002	0.0014
29-Jul-10	28	2.06	12.11	4.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-Aug-10	29	1.14	10.37	1.90	0.24	0.02	0.0362	0.0030	0.0004	0.0020	0.000005	0.000003	0.0238	0.000002	4.23	0.00005	0.00001	0.0001	0.0010
12-Aug-10	30	2.13	12.00	2.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Aug-10	31	2.50	12.39	3.64	0.23	0.03	0.0487	0.0027	0.0005	0.0023	0.000005	0.000007	0.0228	0.000002	5.10	0.00009	0.00001	0.0002	0.0023
26-Aug-10	32	1.33	12.09	5.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Sep-10	33	1.78	12.44	5.58	0.23	0.03	0.0455	0.0026	0.0005	0.0020	0.000005	0.000005	0.0233	0.000002	4.74	0.00005	0.00001	0.0003	0.0019
9-Sep-10	34	2.07	10.38	5.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Sep-10	35	1.30	11.36	5.85	0.23	0.03	0.0422	0.0028	0.0005	0.0024	0.000005	0.000003	0.0225	0.000004	5.04	0.00009	0.00001	0.0002	0.0009

Cell Terminated

Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.000007	0.0042	1.04	0.0020	0.000004	0.0007	0.00092	0.0019	2.56	0.0020	0.53	0.000004	5.51	0.35	9.75	0.000005	0.000008	0.0002	0.0199	0.0002	0.0002	0.00004
0.000011	0.0067	1.41	0.0032	0.000005	0.0014	0.00278	0.0020	3.77	0.0021	0.94	0.000003	7.04	0.42	9.69	0.000008	0.000010	0.0003	0.0719	0.0002	0.0003	0.00005
0.001176	0.0032	0.59	0.0021	0.000005	0.0008	0.00053	0.0010	1.90	0.0006	0.69	0.000002	2.48	0.18	2.45	0.000004	0.000074	0.0002	0.0309	0.0001	0.0001	0.00005
0.000029	0.0032	0.64	0.0024	0.000005	0.0006	0.00026	0.0010	1.84	0.0005	0.76	0.000002	2.02	0.20	1.98	0.000004	0.000084	0.0002	0.0395	0.0002	0.0004	0.00005
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0.000013	0.0027	0.82	0.0039	0.000005	0.0003	0.00015	0.0014	1.55	0.0003	0.63	0.000002	0.99	0.26	4.80	0.000005	0.000067	0.0002	0.0372	0.0001	0.0003	0.00005
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0.000009	0.0031	0.93	0.0047	0.000005	0.0002	0.00013	0.0010	1.64	0.0004	0.83	0.000003	0.73	0.29	5.00	0.000006	0.000010	0.0003	0.0378	0.0001	0.0003	0.00005
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0.000032	0.0025	0.74	0.0042	0.000005	0.0002	0.00015	0.0010	1.24	0.0004	0.79	0.000003	0.44	0.24	5.05	0.000006	0.000005	0.0003	0.0290	0.0001	0.0004	0.00005
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0.000096	0.0022	0.72	0.0046	0.000005	0.0002	0.00017	0.0010	1.14	0.0003	0.81	0.000005	0.35	0.24	3.57	0.000005	0.000046	0.0003	0.0273	0.0002	--	0.00005
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0.000035	0.0021	0.74	0.0050	0.000005	0.0002	0.00014	0.0015	1.16	0.0004	0.84	0.000003	0.31	0.25	5.10	0.000006	0.000036	0.0003	0.0274	0.0001	0.0005	0.00005
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0.000011	0.0016	0.68	0.0053	0.000005	0.0002	0.00012	0.0010	0.97	0.0003	0.60	0.000002	0.23	0.21	4.95	0.000004	0.000005	0.0002	0.0214	0.0001	0.0004	0.00005
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0.000012	0.0013	0.55	0.0043	0.000005	0.0001	0.00009	0.0010	0.75	0.0003	0.82	0.000003	0.18	0.17	5.00	0.000006	0.000005	0.0003	0.0153	0.0002	0.0004	0.00005
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0.000013	0.0009	0.38	0.0034	0.000005	0.0001	0.00002	0.0009	0.47	0.0002	0.51	0.000002	0.11	0.14	4.70	0.000003	0.000005	0.0002	0.0102	0.0001	0.0001	0.00005
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0.000013	0.0012	0.52	0.0029	0.000005	0.0001	0.00007	0.0009	0.76	0.0004	0.60	0.000002	0.20	0.17	4.65	0.000003	0.000005	0.0002	0.0112	0.0002	0.0005	0.00005
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0.000007	0.0012	0.48	0.0031	0.000005	0.0001	0.00005	0.0009	0.70	0.0004	0.69	0.000002	0.18	0.16	4.60	0.000004	0.000005	0.0002	0.0109	0.0001	0.0001	0.00005
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0.000016	0.0009	0.41	0.0025	0.000005	0.0001	0.00005	0.0009	0.53	0.0003	0.58	0.000002	0.14	0.13	4.55	0.000003	0.000005	0.0002	0.0095	0.0001	0.0001	0.00005
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0.000008	0.0009	0.41	0.0025	0.000005	0.0001	0.00009	0.0010	0.49	0.0003	0.55	0.000002	0.13	0.13	4.80	0.000002	0.000010	0.0002	0.0102	0.0001	0.0002	0.00005
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0.000005	0.0008	0.36	0.0016	0.000005	0.0001	0.00010	0.0010	0.44	0.0002	0.54	0.000002	0.12	0.11	4.75	0.000002	0.000010	0.0002	0.0087	0.0001	0.0000	0.00005
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0.000014	0.0009	0.44	0.0027	0.000005	0.0001	0.00009	0.0009	0.48	0.0003	0.60	0.000002	0.15	0.14	4.55	0.000002	0.000005	0.0002	0.0075	0.0001	0.0002	0.00005
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0.000010	0.0008	0.43	0.0019	0.000005	0.0002	0.00007	0.0009	0.48	0.0003	0.52	0.000002	0.13	0.13	4.65	0.000003	0.000014	0.0002	0.0067	0.0001	0.0001	0.00005
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0.000015	0.0009	0.45	0.0019	0.000005	0.0001	0.00009	0.0009	0.50	0.0003	0.61	0.000002	0.13	0.14	4.50	0.000003	0.000005	0.0002	0.0069	0.0002	0.0003	0.00005

HC 10
Sample = DG07-327C 24.69-33.83
Sample Wt. (kg) 1

Concentrations

Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Jan-10	0	500	360	7.65	319	190	5.71	54.53	7	5.9	0.49	68.8	0.0243	0.00033	0.00462	0.0257	0.00001	0.000005	0.05	0.000015	15.6	0.0001	0.000041	0.00072	0.002	0.000013	0.006	7.27	0.002	0.00001	0.0342	0.0004	0.005	5.21	0.00126	1.5
21-Jan-10	1	500	480	7.94	360	94	1.98	41.96	7	1.4	0.41	36	0.0415	0.00027	0.00778	0.0127	0.00001	0.000005	0.05	0.000021	8.2	0.0001	0.000025	0.00235	0.007	0.000013	0.004	3.76	0.0016	0.00001	0.0326	0.00034	0.034	3.51	0.00123	1.48
28-Jan-10	2	500	470	7.67	356	65	3.19	37.79	5	0.6	0.35	30.6	0.0446	0.00021	0.00713	0.0104	0.00001	0.000005	0.05	0.000009	7.3	0.0002	0.000015	0.00037	0.007	0.000027	0.0029	3.01	0.0016	0.00001	0.0279	0.00025	0.004	2.64	0.00065	1.41
4-Feb-10	3	500	480	7.65	261	56	2.52	38	1	0.5	0.35	29.9	0.0401	0.00023	0.00672	0.0111	0.00001	0.000005	0.05	0.000007	6.96	0.0001	0.000014	0.00032	0.008	0.00383	0.0029	3.03	0.0015	0.00001	0.0294	0.00034	0.002	2.5	0.00057	1.47
11-Feb-10	4	500	480	7.61	322	72	2.46	38.54	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	5	500	480	7.77	320	80	2.89	45.65	1	0.5	0.42	34.2	0.0402	0.00026	0.00673	0.0135	0.00001	0.000005	0.05	0.000009	7.89	0.0001	0.000019	0.00048	0.008	0.000017	0.0032	3.52	0.0022	0.00001	0.0338	0.00022	0.003	2.96	0.00035	1.66
25-Feb-10	6	500	465	7.77	347	58	2.41	38.49	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Mar-10	7	500	465	7.80	359	59	1.81	37.28	1	0.5	0.27	28.4	0.0353	0.0002	0.00579	0.0115	0.00001	0.000005	0.05	0.00001	6.85	0.0001	0.000007	0.00025	0.006	0.000082	0.0024	2.73	0.0014	0.00001	0.0242	0.00019	0.002	2.24	0.00026	1.5
11-Mar-10	8	500	465	7.70	372	59	2.76	35.76	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	9	500	475	7.64	373	56	2.65	33.14	1	0.5	0.22	24.8	0.0409	0.00018	0.00575	0.01	0.00001	0.000005	0.05	0.000012	5.98	0.0001	0.000015	0.00042	0.013	0.0013	0.0019	2.4	0.0014	0.00001	0.0192	0.00026	0.002	1.67	0.00023	1.32
25-Mar-10	10	500	475	7.74	360	52	2.9	34.22	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	11	500	465	7.81	370	52	2.16	32.53	2	0.5	0.2	25.4	0.0315	0.0002	0.00503	0.0104	0.00001	0.000006	0.05	0.000012	6.19	0.0001	0.000015	0.00036	0.01	0.000208	0.0018	2.41	0.0016	0.00001	0.0173	0.0003	0.004	1.62	0.00018	1.26
8-Apr-10	12	500	460	7.71	352	72	2.49	36.61	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Apr-10	13	500	460	7.61	340	73	3.4	37.74	1	0.5	0.2	28.8	0.0362	0.00022	0.00648	0.0125	0.00001	0.000005	0.05	0.000008	6.84	0.0002	0.000008	0.00023	0.005	0.000027	0.0019	2.83	0.0013	0.00001	0.0194	0.00021	0.002	1.77	0.00024	1.47
22-Apr-10	14	500	475	7.79	340	59	3.58	35.9	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Apr-10	15	500	480	7.77	348	59	2.21	34.41	3	0.5	0.25	27.9	0.0312	0.00021	0.00573	0.0111	0.00001	0.000005	0.05	0.000013	6.95	0.0001	0.000011	0.00028	0.005	0.000014	0.0019	2.56	0.0015	0.00001	0.0169	0.00016	0.002	1.58	0.0002	1.39
6-May-10	16	500	455	7.65	337	60	4.01	37.4	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-May-10	17	500	470	7.70	341	57	3.08	34.63	2	0.5	0.16	28	0.0309	0.00022	0.00606	0.0114	0.00001	0.000005	0.05	0.000009	6.81	0.0001	0.000015	0.00041	0.006	0.000061	0.002	2.67	0.0017	0.00001	0.0162	0.00017	0.002	1.61	0.00025	1.78
20-May-10	18	500	455	7.82	357	51	3.11	32.86	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-May-10	19	500	480	7.80	369	54	4.87	37.44	1	0.5	0.16	28.4	0.0264	0.00018	0.00526	0.0113	0.00001	0.000005	0.05	0.000005	7.13	0.0001	0.000007	0.00016	0.002	0.000149	0.0017	2.58	0.0014	0.00001	0.0153	0.00006	0.002	1.45	0.00018	1.49
3-Jun-10	20	500	465	7.75	350	50	2.45	32.13	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Jun-10	21	500	480	7.63	330	53	4.2	34.89	3	0.5	0.15	25	0.0276	0.00018	0.0059	0.0109	0.00001	0.000005	0.05	0.000005	5.79	0.0001	0.000013	0.00017	0.004	0.000028	0.0016	2.55	0.0012	0.00001	0.0146	0.0002	0.002	1.49	0.00021	1.26
17-Jun-10	22	500	475	7.74	336	50	3.32	33.89	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Jun-10	23	500	480	7.82	406	52	2.14	35.15	3	0.5	0.1	26.2	0.0432	0.0002	0.00578	0.0122	0.00001	0.000005	0.05	0.000005	6.22	0.0001	0.000016	0.00025	--	0.00002	0.0017	2.59	0.0012	0.00001	0.0146	0.00027	0.002	1.4	0.00023	1.48
1-Jul-10	24	500	470	7.78	421	48	2.14	32.73	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Jul-10	25	500	470	7.63	337	48	2.17	31.18	1	0.5	0.1	24.6	0.027	0.00019	0.00455	0.0104	0.00001	0.000005	0.05	0.000005	5.73	0.0001	0.000007	0.00014	0.005	0.000007	0.0014	2.5	0.0015	0.00001	0.0114	0.00014	0.002	1.25	0.00019	1.23
15-Jul-10	26	500	490	7.59	337	51	3.46	34.34	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Jul-10	27	500	475	7.64	354	49	3.29	31.82	1	0.5	0.11	24.8	0.0267	0.00016	0.00459	0.0107	0.00001	0.000005	0.05	0.000005	5.96	0.0001	0.000011	0.00024	0.006	0.000012	0.0014	2.41	0.0013	0.00001	0.0103	0.00019	0.002	1.13	0.00017	1.19
29-Jul-10	28	500	495	7.65	335	48	4.07	32.48	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-Aug-10	29	500	515	7.85	362	50	2.05	34.62	5	0.5	0.1	26.3	0.0313	0.00016	0.00558	0.0105	0.00001	0.000005	0.05	0.000005	6.36	0.0001	0.00001	0.00023	0.004	0.00001	0.0014	2.53	0.001	0.00001	0.0103	0.00017	0.002	1.16	0.00018	1.26
12-Aug-10	30	500	490	7.70	401	56	4.1	37.37	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Aug-10	31	500	465	7.79	377	47	4.61	33.76	1	0.5	0.09	25.2	0.0336	0.00016	0.00447	0.00997	0.00001	0.000005	0.05	0.000005	6.14	0.0002	0.000008	0.00027	0.006	0.000065	0.0012	2.41	0.001	0.00001	0.00978	0.00018	0.002	0.98	0.0002	1.14
26-Aug-10	32	500	460	7.74	360	53	2.54	37.18	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Sep-10	33	500	470	7.72	392	47	3.25	36.85	5	0.5	0.09	25.9	0.0278	0.00017	0.005	0.012	0.00001	0.000005	0.05	0.000014	6.06	0.0001	0.000008	0.00028	0.004	0.000007	0.0014	2.61	0.0009	0.00001	0.0101	0.00014	0.002	1.14	0.0002	1.15
9-Sep-10	34	500	465	7.43	369	55	4.63	37.96	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Sep-10	35	500	480	7.57	358	46	2.71	32.3	3	0.8	0.09	26.2	0.0263	0.00016	0.00426	0.0114	0.00001	0.000005	0.05	0.000005	6.46	0.0002	0.000009	0.00012	0.004	0.000009	0.0012	2.44	0.001	0.00001	0.00831	0.00015	0.002	1.04	0.00015	1.23

Cell Terminated

HC 10
Sample = DG07-327C 24.69-33.83
Sample Wt. (kg) 1 **Loadings**

Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
0.000005	8.27	0.218	3	0.000063	0.00001	0.0008	0.00207	0.0002	0.0004	0.0001
0.000014	5.49	0.109	4	0.000037	0.00001	0.0005	0.00223	0.0002	0.0003	0.0001
0.000005	3.3	0.0934	3	0.000027	0.00017	0.0005	0.00198	0.0002	0.0003	0.0001
0.000005	3.11	0.095	3	0.000029	0.00019	0.0005	0.00233	0.0002	0.0006	0.0001
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0.000005	2.92	0.11	3	0.000034	0.00014	0.0005	0.0031	0.0002	0.0005	0.0001
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0.000005	1.53	0.0865	2	0.000025	0.00003	0.0005	0.0025	0.0002	0.0002	0.0001
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0.000005	1.05	0.0793	10	0.000021	0.00002	0.0005	0.00224	0.0002	0.0004	0.0001
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0.000011	0.83	0.0808	2	0.000023	0.00008	0.0005	0.0022	0.0002	--	0.0001
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0.000005	0.83	0.0941	10	0.000021	0.00004	0.0005	0.00258	0.0002	0.0006	0.0001
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0.000005	0.6	0.0884	10	0.000018	0.00001	0.0005	0.00266	0.0002	0.0004	0.0001
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0.000005	0.57	0.086	10	0.000024	0.00001	0.0005	0.0023	0.0002	0.0005	0.0001
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0.000005	0.47	0.088	10	0.000019	0.00001	0.0005	0.00235	0.0002	0.0001	0.0001
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0.000005	0.43	0.0845	10	0.00002	0.00001	0.0005	0.00209	0.0002	0.0001	0.0001
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0.000005	0.4	0.0909	10	0.000017	0.00001	0.0014	0.00221	0.0003	0.0006	0.0001
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0.000005	0.36	0.0755	10	0.000018	0.00001	0.0005	0.00223	0.0002	0.0001	0.0001
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0.000005	0.3	0.0803	10	0.000018	0.00001	0.0005	0.00219	0.0002	0.0001	0.0001
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0.000005	0.32	0.0777	10	0.000015	0.00002	0.0005	0.00228	0.0002	0.0004	0.0001
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0.000011	0.31	0.0809	10	0.000018	0.00001	0.0005	0.0019	0.0003	0.0002	0.0001
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0.000005	0.26	0.0882	10	0.000019	0.00003	0.0005	0.00241	0.0002	0.0002	0.0001
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0.000005	0.25	0.0812	10	0.000015	0.00001	0.0005	0.0022	0.0003	0.0001	0.0001

Date	Cycle	Acidity (pH 8.3) mgCaCO3/kg/wk	Alkalinity mgCaCO3/kg/wk	Sulphate mg/kg/wk	Chloride mg/kg/wk	Fluoride mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk
14-Jan-10	0	2.06	19.63	2.52	2.12	0.18	0.0087	0.0001	0.0017	0.0093	0.000004	0.000002	0.0180	0.000005	5.62	0.000036	0.000015	0.0003	0.0007
21-Jan-10	1	0.95	20.14	3.36	0.67	0.20	0.0199	0.0001	0.0037	0.0061	0.000005	0.000002	0.0240	0.000010	3.94	0.000048	0.000012	0.0011	0.0034
28-Jan-10	2	1.50	17.76	2.35	0.28	0.16	0.0210	0.0001	0.0034	0.0049	0.000005	0.000002	0.0235	0.000004	3.43	0.000094	0.000007	0.0002	0.0033
4-Feb-10	3	1.21	18.24	0.48	0.24	0.17	0.0192	0.0001	0.0032	0.0053	0.000005	0.000002	0.0240	0.000003	3.34	0.000048	0.000007	0.0002	0.0038
11-Feb-10	4	1.18	18.50	0.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	5	1.39	21.91	0.48	0.24	0.20	0.0193	0.0001	0.0032	0.0065	0.000005	0.000002	0.0240	0.000004	3.79	0.000048	0.000009	0.0002	0.0038
25-Feb-10	6	1.12	17.90	1.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Mar-10	7	0.84	17.34	0.47	0.23	0.13	0.0164	0.0001	0.0027	0.0053	0.000005	0.000002	0.0233	0.000005	3.19	0.000047	0.000003	0.0001	0.0028
11-Mar-10	8	1.28	16.63	0.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	9	1.26	15.74	0.48	0.24	0.10	0.0194	0.0001	0.0027	0.0048	0.000005	0.000002	0.0238	0.000006	2.84	0.000048	0.000007	0.0002	0.0062
25-Mar-10	10	1.38	16.25	0.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	11	1.00	15.13	0.93	0.23	0.09	0.0146	0.0001	0.0023	0.0048	0.000005	0.000003	0.0233	0.000006	2.88	0.000047	0.000007	0.0002	0.0047
8-Apr-10	12	1.15	16.84	0.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Apr-10	13	1.56	17.36	0.46	0.23	0.09	0.0167	0.0001	0.0030	0.0058	0.000005	0.000002	0.0230	0.000004	3.15	0.000092	0.000004	0.0001	0.0023
22-Apr-10	14	1.70	17.05	0.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Apr-10	15	1.06	16.52	1.44	0.24	0.12	0.0150	0.0001	0.0028	0.0053	0.000005	0.000002	0.0240	0.000006	3.34	0.000048	0.000005	0.0001	0.0024
6-May-10	16	1.82	17.02	0.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-May-10	17	1.45	16.28	0.94	0.24	0.08	0.0145	0.0001	0.0028	0.0054	0.000005	0.000002	0.0235	0.000004	3.20	0.000047	0.000007	0.0002	0.0028
20-May-10	18	1.42	14.95	0.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-May-10	19	2.34	17.97	0.48	0.24	0.08	0.0127	0.0001	0.0025	0.0054	0.000005	0.000002	0.0240	0.000002	3.42	0.000048	0.000003	0.0001	0.0010
3-Jun-10	20	1.14	14.94	1.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Jun-10	21	2.02	16.75	1.44	0.24	0.07	0.0132	0.0001	0.0028	0.0052	0.000005	0.000002	0.0240	0.000002	2.78	0.000048	0.000006	0.0001	0.0019
17-Jun-10	22	1.58	16.10	0.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Jun-10	23	1.03	16.87	1.44	0.24	0.05	0.0207	0.0001	0.0028	0.0059	0.000005	0.000002	0.0240	0.000002	2.99	0.000048	0.000008	0.0001	--
1-Jul-10	24	1.01	15.38	0.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Jul-10	25	1.02	14.65	0.47	0.24	0.05	0.0127	0.0001	0.0021	0.0049	0.000005	0.000002	0.0235	0.000002	2.69	0.000047	0.000003	0.0001	0.0024
15-Jul-10	26	1.70	16.83	0.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Jul-10	27	1.56	15.11	0.48	0.24	0.05	0.0127	0.0001	0.0022	0.0051	0.000005	0.000002	0.0238	0.000002	2.83	0.000048	0.000005	0.0001	0.0029
29-Jul-10	28	2.01	16.08	0.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-Aug-10	29	1.06	17.83	2.58	0.26	0.05	0.0161	0.0001	0.0029	0.0054	0.000005	0.000003	0.0258	0.000003	3.28	0.000052	0.000005	0.0001	0.0021
12-Aug-10	30	2.01	18.31	0.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Aug-10	31	2.14	15.70	0.47	0.23	0.04	0.0156	0.0001	0.0021	0.0046	0.000005	0.000002	0.0233	0.000002	2.86	0.000093	0.000004	0.0001	0.0028
26-Aug-10	32	1.17	17.10	1.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Sep-10	33	1.53	17.32	2.35	0.24	0.04	0.0131	0.0001	0.0024	0.0056	0.000005	0.000002	0.0235	0.000007	2.85	0.000047	0.000004	0.0001	0.0019
9-Sep-10	34	2.15	17.65	0.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Sep-10	35	1.30	15.50	1.44	0.38	0.04	0.0126	0.0001	0.0020	0.0055	0.000005	0.000002	0.0240	0.000002	3.10	0.000096	0.000004	0.0001	0.0019

Cell Terminated

Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.000005	0.0022	2.62	0.0007	0.000004	0.0123	0.00014	0.0018	1.88	0.0005	0.54	0.000002	2.98	0.08	1.08	0.000023	0.000004	0.0003	0.0007	0.0001	0.00014	0.00004
0.000006	0.0019	1.80	0.0008	0.000005	0.0156	0.00016	0.0163	1.68	0.0006	0.71	0.000007	2.64	0.05	1.92	0.000018	0.000005	0.0002	0.0011	0.0001	0.00014	0.00005
0.000013	0.0014	1.41	0.0007	0.000005	0.0131	0.00012	0.0019	1.24	0.0003	0.66	0.000002	1.55	0.04	1.41	0.000013	0.000080	0.0002	0.0009	0.0001	0.00014	0.00005
0.001838	0.0014	1.45	0.0007	0.000005	0.0141	0.00016	0.0010	1.20	0.0003	0.71	0.000002	1.49	0.05	1.44	0.000014	0.000091	0.0002	0.0011	0.0001	0.00029	0.00005
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0.000008	0.0015	1.69	0.0011	0.000005	0.0162	0.00011	0.0014	1.42	0.0002	0.80	0.000002	1.40	0.05	1.44	0.000016	0.000067	0.0002	0.0015	0.0001	0.00024	0.00005
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0.000038	0.0011	1.27	0.0007	0.000005	0.0113	0.00009	0.0009	1.04	0.0001	0.70	0.000002	0.71	0.04	0.93	0.000012	0.000014	0.0002	0.0012	0.0001	0.00009	0.00005
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0.000618	0.0009	1.14	0.0007	0.000005	0.0091	0.00012	0.0010	0.79	0.0001	0.63	0.000002	0.50	0.04	4.75	0.000010	0.000010	0.0002	0.0011	0.0001	0.00019	0.00005
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0.000097	0.0008	1.12	0.0007	0.000005	0.0080	0.00014	0.0019	0.75	0.0001	0.59	0.000005	0.39	0.04	0.93	0.000011	0.000037	0.0002	0.0010	0.0001	--	0.00005
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0.000012	0.0009	1.30	0.0006	0.000005	0.0089	0.00010	0.0009	0.81	0.0001	0.68	0.000002	0.38	0.04	4.60	0.000010	0.000018	0.0002	0.0012	0.0001	0.00028	0.00005
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0.000007	0.0009	1.23	0.0007	0.000005	0.0081	0.00008	0.0010	0.76	0.0001	0.67	0.000002	0.29	0.04	4.80	0.000009	0.000005	0.0002	0.0013	0.0001	0.00019	0.00005
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0.000029	0.0009	1.25	0.0008	0.000005	0.0076	0.00008	0.0009	0.76	0.0001	0.84	0.000002	0.27	0.04	4.70	0.000011	0.000005	0.0002	0.0011	0.0001	0.00024	0.00005
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0.000072	0.0008	1.24	0.0006	0.000005	0.0073	0.00003	0.0010	0.70	0.0001	0.72	0.000002	0.23	0.04	4.80	0.000009	0.000005	0.0002	0.0011	0.0001	0.00005	0.00005
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0.000013	0.0008	1.22	0.0006	0.000005	0.0070	0.00010	0.0010	0.72	0.0001	0.60	0.000002	0.21	0.04	4.80	0.000010	0.000005	0.0002	0.0010	0.0001	0.00005	0.00005
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0.000010	0.0008	1.24	0.0006	0.000005	0.0070	0.00013	0.0010	0.67	0.0001	0.71	0.000002	0.19	0.04	4.80	0.000008	0.000005	0.0007	0.0011	0.0001	0.00029	0.00005
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0.000003	0.0007	1.18	0.0007	0.000005	0.0054	0.00007	0.0009	0.59	0.0001	0.58	0.000002	0.17	0.04	4.70	0.000008	0.000005	0.0002	0.0010	0.0001	0.00005	0.00005
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0.000006	0.0007	1.14	0.0006	0.000005	0.0049	0.00009	0.0010	0.54	0.0001	0.57	0.000002	0.14	0.04	4.75	0.000009	0.000005	0.0002	0.0010	0.0001	0.00005	0.00005
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0.000005	0.0007	1.30	0.0005	0.000005	0.0053	0.00009	0.0010	0.60	0.0001	0.65	0.000003	0.16	0.04	5.15	0.000008	0.000010	0.0003	0.0012	0.0001	0.00021	0.00005
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0.000030	0.0006	1.12	0.0005	0.000005	0.0045	0.00008	0.0009	0.46	0.0001	0.53	0.000005	0.14	0.04	4.65	0.000008	0.000005	0.0002	0.0009	0.0001	0.00009	0.00005
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0.000003	0.0007	1.23	0.0004	0.000005	0.0047	0.00007	0.0009	0.54	0.0001	0.54	0.000002	0.12	0.04	4.70	0.000009	0.000014	0.0002	0.0011	0.0001	0.00009	0.00005
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0.000004	0.0006	1.17	0.0005	0.000005	0.0040	0.00007	0.0010	0.50	0.0001	0.59	0.000002	0.12	0.04	4.80	0.000007	0.000005	0.0002	0.0011	0.0001	0.00005	0.00005

HC 11

Sample = DG05-308C 125.00-128.00

Sample Wt. (kg) 1

Concentrations

Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Jan-10	0	500	350	7.25	298	514	6.54	29.52	196	6.1	0.48	231	0.0099	0.01	0.0934	0.00329	0.00001	0.000005	0.05	0.000296	78.8	0.0001	0.000642	0.00337	0.004	0.000018	0.0077	8.28	0.142	0.00012	0.0255	0.00142	0.017	3.43	0.0627	2.32
21-Jan-10	1	500	470	7.47	380	368	3.14	28.57	165	2.2	0.48	189	0.0118	0.0102	0.119	0.00243	0.00001	0.000005	0.05	0.000208	64.9	0.0001	0.000347	0.00584	0.006	0.000026	0.0068	6.54	0.0952	0.00002	0.0305	0.00061	0.013	3.42	0.0528	2.33
28-Jan-10	2	500	480	7.34	369	218	4.29	29.12	93	0.8	0.49	109	0.0148	0.00925	0.125	0.00133	0.00001	0.000007	0.05	0.000117	37.5	0.0001	0.0002	0.00129	0.005	0.000086	0.0051	3.67	0.0563	0.00002	0.0296	0.00042	0.015	2.48	0.0279	2.09
4-Feb-10	3	500	480	7.32	266	119	3.1	24.83	45	0.5	0.38	64.9	0.0194	0.00785	0.119	0.00086	0.00001	0.000008	0.05	0.000066	22.3	0.0002	0.000122	0.00079	0.007	0.000156	0.0035	2.2	0.0334	0.00001	0.0251	0.00036	0.015	1.7	0.0159	1.69
11-Feb-10	4	500	485	7.31	338	121	3.19	26.79	32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	5	500	440	7.45	333	114	3.47	31.5	30	0.5	0.51	53.6	0.0245	0.0116	0.184	0.00083	0.00001	0.000011	0.05	0.000061	18.1	0.0001	0.000096	0.00108	0.01	0.000137	0.0039	2.03	0.0252	0.00001	0.0342	0.00035	0.021	2.23	0.0112	2.43
25-Feb-10	6	500	455	7.40	355	59	2.87	20.96	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Mar-10	7	500	455	7.40	368	64	2.31	20.26	10	0.5	0.25	30.7	0.0256	0.00626	0.11	0.00052	0.00001	0.000017	0.05	0.000039	10.6	0.0003	0.00005	0.00075	0.009	0.000129	0.0025	1.02	0.0158	0.00001	0.0192	0.0002	0.013	1.26	0.0066	1.38
11-Mar-10	8	500	455	7.36	380	67	3.47	22.9	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	9	500	480	7.33	382	60	3.06	21.28	5	0.5	0.26	24.7	0.0289	0.00622	0.117	0.00073	0.00001	0.000025	0.05	0.000041	8.49	0.0001	0.000054	0.0007	0.015	0.000215	0.0023	0.86	0.0137	0.00001	0.0178	0.00024	0.011	1.14	0.00563	1.25
25-Mar-10	10	500	490	7.41	370	49	3.59	17.71	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	11	500	465	7.46	381	54	2.84	20.6	11	0.5	0.21	24.3	0.0225	0.00613	0.104	0.00051	0.00001	0.000023	0.05	0.000044	8.39	0.0001	0.000048	0.00084	0.012	0.000193	0.0022	0.82	0.0132	0.00001	0.0186	0.00018	0.011	1.16	0.00523	1.22
8-Apr-10	12	500	465	7.37	351	68	2.89	20.98	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Apr-10	13	500	490	7.32	349	75	3.62	24.25	12	0.5	0.32	26.9	0.0269	0.00861	0.137	0.00054	0.00001	0.000014	0.05	0.000048	9.17	0.0002	0.000052	0.00051	0.01	0.000133	0.0026	0.96	0.0134	0.00001	0.0235	0.00022	0.015	1.52	0.00623	1.61
22-Apr-10	14	500	465	7.49	349	62	4.32	25.58	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Apr-10	15	500	485	7.48	356	61	2.51	25.35	7	0.5	0.45	26.4	0.0259	0.00885	0.147	0.00057	0.00001	0.000054	0.05	0.000032	9.14	0.0003	0.00005	0.00044	0.013	0.000251	0.0027	0.86	0.0117	0.00001	0.0211	0.00022	0.012	1.38	0.00593	1.59
6-May-10	16	500	470	7.42	346	58	4.45	26.48	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-May-10	17	500	465	7.51	350	58	3.23	24.64	6	0.5	0.25	27	0.0282	0.00842	0.145	0.00138	0.00001	0.000019	0.05	0.000034	9.39	0.0002	0.00004	0.00047	0.013	0.00021	0.0026	0.86	0.0145	0.00001	0.0201	0.00018	0.015	1.46	0.00544	1.95
20-May-10	18	500	465	7.57	364	53	3.94	23.43	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-May-10	19	500	455	7.60	372	54	5.8	29.22	2	0.5	0.27	26	0.0216	0.00785	0.138	0.00051	0.00001	0.00001	0.05	0.000033	9.06	0.0001	0.000035	0.0004	0.006	0.000069	0.0025	0.83	0.0112	0.00001	0.0189	0.00009	0.013	1.43	0.00527	1.67
3-Jun-10	20	500	470	7.54	354	55	2.94	26.18	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Jun-10	21	500	455	7.43	339	50	4.47	24.38	5	0.5	0.22	23.3	0.0255	0.00743	0.138	0.00062	0.00001	0.000026	0.05	0.000042	8	0.0002	0.000041	0.00051	0.01	0.000175	0.0023	0.81	0.0094	0.00001	0.0172	0.00015	0.013	1.44	0.00512	1.56
17-Jun-10	22	500	460	7.57	344	59	3.77	29.79	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Jun-10	23	500	460	7.65	406	57	2.67	29.51	7	0.5	0.2	25.8	0.0237	0.00936	0.168	0.00058	0.00001	0.000013	0.05	0.000029	8.84	0.0001	0.000032	0.00044	0.01	0.000089	0.0027	0.9	0.0086	0.00001	0.0217	0.00014	0.016	1.63	0.00587	1.83
1-Jul-10	24	500	455	7.59	418	52	2.61	27.07	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Jul-10	25	500	445	7.40	345	46	2.35	21.11	2	0.5	0.2	20.5	0.0267	0.00653	0.128	0.00066	0.00001	0.000023	0.05	0.000026	6.97	0.0001	0.000037	0.00041	0.013	0.000214	0.0021	0.75	0.0068	0.00001	0.0148	0.00014	0.014	1.32	0.00426	1.32
15-Jul-10	26	500	465	7.38	339	41	4.09	20.64	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Jul-10	27	500	480	7.35	359	50	3.68	24.68	4	0.5	0.21	22.3	0.0209	0.00652	0.128	0.00053	0.00001	0.000013	0.05	0.000028	7.68	0.0001	0.000033	0.00046	0.008	0.000087	0.0022	0.77	0.006	0.00001	0.0164	0.00028	0.013	1.29	0.00482	1.43
29-Jul-10	28	500	460	7.46	340	43	4.29	22.75	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-Aug-10	29	500	450	7.54	373	43	2.4	22.08	2	0.5	0.18	20.8	0.0222	0.00569	0.115	0.00119	0.00001	0.000013	0.05	0.000025	7.17	0.0001	0.000032	0.00104	0.012	0.000126	0.0019	0.7	0.0057	0.00001	0.0147	0.00015	0.011	1.27	0.00413	1.31
12-Aug-10	30	500	465	7.49	403	44	4.55	23.77	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Aug-10	31	500	435	7.54	374	42	5.23	22.94	2	0.5	0.18	20.8	0.031	0.00594	0.114	0.00084	0.00001	0.000033	0.05	0.000033	7.15	0.0001	0.000035	0.00039	0.022	0.000241	0.0019	0.7	0.006	0.00001	0.0156	0.00016	0.01	1.17	0.00434	1.24
26-Aug-10	32	500	450	7.45	366	45	2.91	23.17	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Sep-10	33	500	450	7.38	396	35	3.32	21.75	6	0.5	0.15	17.3	0.0252	0.00513	0.114	0.0006	0.00001	0.000022	0.05	0.000026	5.87	0.0002	0.000022	0.00058	0.011	0.00015	0.0019	0.65	0.0045	0.00001	0.0125	0.0002	0.01	1.19	0.00374	1.01
9-Sep-10	34	500	460	7.19	368	37	4.66	17.73	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Sep-10	35	500	450	7.25	362	38	3.17	21.58	5	0.5	0.16	19.5	0.0223	0.00523	0.111	0.00054	0.00001	0.000011	0.05	0.000028	6.69	0.0002	0.000024	0.00038	0.01	0.000317	0.0018	0.67	0.0044	0.00001	0.0131	0.00018	0.011	1.23	0.0036	1.17
23-Sep-10	36	500	470	7.46	356	31	2.39	17.54	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30-Sep-10	37	500	470	7.32	325	29	2.8	20.65	5	0.5	0.24	16	0.0232	0.00527	0.109	0.0006	0.00001	0.000012	0.05	0.000025	5.54	0.0001	0.000029	0.00056	0.009	0.000085	0.0018	0.52	0.0033	0.00001	0.0112	0.00016	0.01	1.08	0.00374	1
7-Oct-10	38	500	435	7.47	338	53	3.46	27.6	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Oct-10	39	500	510	7.25	261	34	3.56	17.39	6	0.6	0.11	16.1	0.0172	0.00423	0.0868	0.00046	0.00001	0.000005	0.05	0.000019	5.67	0.0001	0.000026	0.00043	0.005	0.000072	0.0016	0.48	0.0035	0.00001	0.0089	0.00012	0.008	1.01	0.00294	0.98
21-Oct-10	40	500	475	7.25	412	35	3.55	17.4	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Oct-10	41	500	450	7.20	279	33	3.65	17.59	7	0.5	0.09	16	0.0289	0.00432	0.087	0.00067	0.00001	0.000021	0.05	0.000023	5.64	0.0001	0.000026	0.00038	0.017	0.000232	0.0015	0.47	0.0037	0.00001	0.00901	0.00008	0.009	1	0.00302	1
4-Nov-10	42	500	450	7.33	390	33	2.39	16.54	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Nov-10	43	500	485	7.51	379	48	2.66	23.59	2	0.5	0.12	21	0.0228	0.00504	0.0981	0.00062	0.00001	0.000009	0.05	0.000024	7.43	0.0001	0.000028	0.00034	0.015	0.000195	0.0019	0.59	0.0042	0.00001	0.0122	0.00006	0.011	1.04	0.00377	1.3
18-Nov-10	44	500	450	7.62	355	46	3.17	22.46	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Nov-10	45	500	460	7.23	254	41	3.34	21.92	3	0.5	0.11	19.1	0.0189	0.00432	0.0994	0.00108	0.00001	0.000016	0.05	0.000023	6.66	0.0001	0.000026	0.00162	0.012	0.000124	0.0017	0.59	0.0032	0.00001	0.0121	0.00033	0.01	1.12	0.00325	1.05
2-Dec-10	46	500	475	7.26	368	38	3.63	21.66	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9-Dec-10	47	500	460	7.32	352	41	3.42	22.04	2	0.5	0.12	19.1	0.0176	0.00512	0.11	0.00098	0.00001	0.00001	0.05	0.000018	6.66	0.0001	0.000015	0.00041	0.009	0.000392	0.0023	0.61	0.0066	0.00002	0.0121	0.00015	0.008	1.17	0.00347	1.13
16-Dec-10	48	500	465	7.26	355	38	4.85	21.36	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23-Dec-10	49	500	480	7.47	290	31	4.68	18.49	2	0.5	0.08	14.4	0.0227	0.00439	0.0947	0.00054	0.00001	0.000007	0.05	0.000016	5.04	0.0001	0.000027	0.00027	0.01	0.000088	0.0015	0.45	0.0016	0.00001	0.00854	0.00014	0.007	0.98	0.00291	0.89
30-Dec-10	50	500	480	7.30	329	26	5.6	16.26	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Jan-11	51	500	470	7.45	337	29	5.94	21.55	3	0.5	0.12	16.3	0.0241	0.00427	0.0928	0.00058	0.00001	0.000012	0.05	0.000016	5.75	0.0001	0.000018	0.00034	0.012	0.00013	0.0018	0.48	0.0022	0.00001	0.0069	0.00018	0.007	0.99	0.00294	1.05
13-Jan-11	52	500	455	7.37	328	29	4.28	20.7	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Jan-11	53	500	480	7.38	300	31	2.97	21.58	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-Jan-11	54	500	445	7.35	320	32	4.6	21.52	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Feb-11	55	500	480	7.28	328	31	3.24	22.11	7	0.5	0.1	19.2	0.0217	0.00469	0.0992	0.0005	0.00001	0.000013	0.05	0.000029	6.77	0.0001	0.000021	0.00063	0.01	0.000073	0.0018	0.55	0.0019	0.00001	0.0097	0.00016	0.009	1.1	0.00317	1.13
10-Feb-11	56	500	465	7.37	344	33	3.29	21.91	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Feb-11	57	500	480	7.34	276	34	3.62	22.04	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Feb-11	58	500	455	7.38	351	51	4.35	27.72	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Mar-11	59	500	455	7.24	312	37	3.85	20.29	7	0.5	0.07	16.6	0.0183	0.0042	0.0913	0.00054	0.00001	0.000009	0.05	0.000019	5.81	0.0001	0.000011	0.00067	0.011	0.000073	0.0017	0.5	0.0013	0.00001	0.00822	0.00018	0.006	1.03	0.00267	0.92
10-Mar-11	60	500	460	7.33	342	37	3.27	17.73	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Mar-11	61	500	465	7.36	249	40	3.14	22.1	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Mar-11	62	500	455	7.51	335	34	4.81	21.64	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Mar-11	63	500	465	7.37	300	34	4.33	20.52	4	0.5	0.07	15.3	0.0187	0.00387	0.0815	0.00037	0.00001	0.000007	0.05	0.000017	5.4	0.0001	0.000012	0.00041	0.007	0.000064	0.0014	0.44	0.0009	0.00001	0.00859	0.00011	0.009	0.88	0.00242	0.82
7-Apr-11	64	500	475	7.48	308	35	4.61	21.04	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Apr-11	65	500	460	7.39	218	37	5.56	26.62	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Apr-11	66	500	460	7.35	306	39	2.95	22.17	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

HC 11

Sample = DG05-308C 125.00-128.00

Sample Wt. (kg) 1

Concentrations

Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-Apr-11	67	500	475	7.42	344	36	3.27	21.38	5	0.5	0.1	15.7	0.0219	0.00417	0.0879	0.00051	0.00001	0.000009	0.05	0.00003	5.53	0.0001	0.000037	0.00056	0.012	0.000085	0.0015	0.47	0.0011	0.00001	0.00971	0.00028	0.007	0.94	0.00269	0.87
5-May-11	68	500	450	7.28	349	36	3.48	20.81	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-May-11	69	500	460	7.44	359	37	3.84	22.74	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-May-11	70	500	465	7.53	317	42	--	15	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-May-11	71	500	450	7.34	268	39	4.52	20.31	3	0.5	0.07	18.6	0.0223	0.00563	0.0988	0.00061	0.00001	0.000006	0.05	0.000015	6.61	0.0001	0.000011	0.00028	0.008	0.000049	0.0018	0.51	0.0008	0.00001	0.0099	0.00002	0.009	1.02	0.00309	1.11
2-Jun-11	72	500	440	7.50	250	35	5.48	20.48	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9-Jun-11	73	500	465	7.34	306	37	3.34	20.66	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Jun-11	74	500	460	7.57	308	35	3.74	21.9	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23-Jun-11	75	500	460	7.58	328	31	2.16	15.96	4	0.5	0.06	15.3	0.0274	0.0047	0.0861	0.00049	0.00001	0.000011	0.05	0.000013	5.52	0.0001	0.00001	0.00054	0.017	0.000145	0.0014	0.36	0.0009	0.00001	0.00777	0.00011	0.007	0.81	0.003	0.97
30-Jun-11	76	500	490	7.56	313	31	4.1	16.75	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Jul-11	77	500	470	7.42	325	39	4.04	23.6	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jul-11	78	500	470	7.52	294	40	5.06	22.76	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jul-11	79	500	485	7.44	280	35	3.95	16.95	2	0.5	0.06	15.4	0.0209	0.00475	0.0916	0.00038	0.00001	0.000005	0.05	0.000013	5.47	0.0001	0.000006	0.00018	0.007	0.000041	0.0015	0.41	0.0005	0.00001	0.00742	0.00002	0.007	0.85	0.00302	0.99
28-Jul-11	80	500	470	7.58	298	35	4.69	21.09	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Aug-11	81	500	460	7.44	303	31	4.01	15.91	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Aug-11	82	500	490	7.66	225	42	4.23	24.2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Aug-11	83	500	460	7.54	272	32	2.92	16.86	2	0.8	0.05	13.5	0.0209	0.0043	0.0793	0.00053	0.00001	0.000009	0.05	0.000005	4.86	0.0001	0.000012	0.00035	0.01	0.000079	0.0013	0.32	0.0007	0.00001	0.00617	0.00009	0.007	0.74	0.0024	0.75
25-Aug-11	84	500	455	7.55	252	33	5.38	21.36	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Sep-11	85	500	445	7.47	307	32	4.55	20.13	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Sep-11	86	500	445	7.57	301	30	4.15	15.49	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Sep-11	87	500	440	7.77	271	34	3.99	23.32	2	0.5	0.04	16.1	0.0299	0.00473	0.0855	0.00111	0.00001	0.000027	0.05	0.000023	5.76	0.0002	0.00002	0.00036	0.022	0.000154	0.0016	0.41	0.0011	0.00001	0.00743	0.00007	0.008	0.88	0.00259	0.85

Cell Terminated

HC 11
Sample = DG05-308C 125.00-128.00
Sample Wt. (kg) 1 **Loadings**

Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
0.000012	11.5	0.918	75	0.000015	0.00001	0.0007	0.00473	0.0002	0.0974	0.0001
0.000023	8.9	0.741	60	0.000012	0.00001	0.0005	0.00458	0.0002	0.0023	0.0001
0.000005	5.03	0.457	30	0.000009	0.00018	0.0006	0.00328	0.0002	0.001	0.0001
0.000005	3.07	0.271	17	0.000008	0.00018	0.0005	0.00218	0.0002	0.0011	0.0001
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0.000005	2.72	0.218	10	0.00001	0.00014	0.0005	0.00242	0.0002	0.002	0.0001
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0.000005	1.01	0.117	6	0.000005	0.00002	0.0005	0.00108	0.0002	0.0007	0.0001
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0.000005	0.75	0.1	10	0.000005	0.00002	0.0005	0.00111	0.0002	0.001	0.0001
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0.000005	0.66	0.097	3	0.000008	0.00008	0.0005	0.000961	0.0002	0.0025	0.0001
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0.000005	0.71	0.114	10	0.000007	0.00008	0.0005	0.0013	0.0002	0.0009	0.0001
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0.000005	0.58	0.108	10	0.000005	0.00002	0.0005	0.00123	0.0002	0.001	0.0001
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0.000005	0.46	0.0987	10	0.000009	0.00001	0.0005	0.00116	0.0002	0.0011	0.0001
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0.000005	0.36	0.104	10	0.000006	0.00001	0.0005	0.00109	0.0002	0.0005	0.0001
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0.000007	0.34	0.0901	10	0.000014	0.00001	0.0005	0.000917	0.0002	0.0009	0.0001
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0.000005	0.35	0.112	10	0.000005	0.00001	0.0005	0.00135	0.0002	0.0004	0.0001
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0.000005	0.26	0.0834	10	0.000004	0.00001	0.0005	0.000946	0.0002	0.0007	0.0001
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0.000005	0.23	0.0947	10	0.000005	0.00001	0.0005	0.00126	0.0002	0.0008	0.0001
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0.000005	0.21	0.0811	10	0.000005	0.00001	0.0005	0.00087	0.0002	0.0007	0.0001
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0.000007	0.24	0.0862	10	0.000007	0.00001	0.0005	0.000739	0.0002	0.001	0.0001
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0.000005	0.2	0.074	10	0.000006	0.00003	0.0005	0.000759	0.0002	0.0007	0.0001
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0.000005	0.19	0.0792	10	0.000005	0.00001	0.0005	0.000844	0.0002	0.0005	0.0001
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0.000005	0.14	0.0717	10	0.000004	0.00001	0.0005	0.000705	0.0002	0.0008	0.0001
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0.000005	0.14	0.0649	10	0.000004	0.00001	0.0005	0.000537	0.0002	0.0004	0.0001
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0.000005	0.12	0.0627	10	0.000005	0.00001	0.0005	0.00056	0.0002	0.0011	0.0001
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0.000005	0.22	0.0831	10	0.000003	0.00001	0.0005	0.000772	0.0002	0.0007	0.0001
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0.000005	0.18	0.0784	10	0.000004	0.00002	0.0005	0.000814	0.0002	0.0011	0.0001
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0.000005	0.13	0.0788	10	0.000003	0.00001	0.0005	0.000823	0.0002	0.0006	0.0001
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0.000005	0.11	0.0617	10	0.000008	0.00001	0.0005	0.000593	0.0002	0.0006	0.0001
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0.000005	0.13	0.0705	10	0.000006	0.00001	0.0005	0.000624	0.0002	0.0006	0.0001
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0.000008	0.11	0.0739	10	0.000007	0.00001	0.0005	0.000782	0.0002	0.0007	0.0001
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0.000024	0.1	0.0691	10	0.000004	0.00001	0.0005	0.000643	0.0002	0.0008	0.0001
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0.000005	0.11	0.0622	10	0.000005	0.00001	0.0005	0.000606	0.0002	0.0003	0.0001
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Date	Cycle	Acidity (pH 8.3) mgCaCO3/kg/wk	Alkalinity mgCaCO3/kg/wk	Sulphate mg/kg/wk	Chloride mg/kg/wk	Fluoride mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk
14-Jan-10	0	2.29	10.33	68.60	2.14	0.17	0.0035	0.0035	0.0327	0.0012	0.000004	0.000002	0.0175	0.000104	27.58	0.00004	0.000225	0.0012	0.0014
21-Jan-10	1	1.48	13.43	77.55	1.03	0.23	0.0055	0.0048	0.0559	0.0011	0.000005	0.000002	0.0235	0.000098	30.50	0.00005	0.000163	0.0027	0.0028
28-Jan-10	2	2.06	13.98	44.64	0.38	0.24	0.0071	0.0044	0.0600	0.0006	0.000005	0.000003	0.0240	0.000056	18.00	0.00005	0.000096	0.0006	0.0024
4-Feb-10	3	1.49	11.92	21.60	0.24	0.18	0.0093	0.0038	0.0571	0.0004	0.000005	0.000004	0.0240	0.000032	10.70	0.00010	0.000059	0.0004	0.0034
11-Feb-10	4	1.55	12.99	15.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Feb-10	5	1.53	13.86	13.20	0.22	0.22	0.0108	0.0051	0.0810	0.0004	0.000004	0.000005	0.0220	0.000027	7.96	0.00004	0.000042	0.0005	0.0044
25-Feb-10	6	1.31	9.54	5.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Mar-10	7	1.05	9.22	4.55	0.23	0.11	0.0116	0.0028	0.0501	0.0002	0.000005	0.000008	0.0228	0.000018	4.82	0.00014	0.000023	0.0003	0.0041
11-Mar-10	8	1.58	10.42	5.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Mar-10	9	1.47	10.21	2.40	0.24	0.12	0.0139	0.0030	0.0562	0.0004	0.000005	0.000012	0.0240	0.000020	4.08	0.00005	0.000026	0.0003	0.0072
25-Mar-10	10	1.76	8.68	3.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Apr-10	11	1.32	9.58	5.12	0.23	0.10	0.0105	0.0029	0.0484	0.0002	0.000005	0.000011	0.0233	0.000020	3.90	0.00005	0.000022	0.0004	0.0056
8-Apr-10	12	1.34	9.76	4.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Apr-10	13	1.77	11.88	5.88	0.25	0.16	0.0132	0.0042	0.0671	0.0003	0.000005	0.000007	0.0245	0.000024	4.49	0.00010	0.000025	0.0002	0.0049
22-Apr-10	14	2.01	11.89	3.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Apr-10	15	1.22	12.29	3.40	0.24	0.22	0.0126	0.0043	0.0713	0.0003	0.000005	0.000026	0.0243	0.000016	4.43	0.00015	0.000024	0.0002	0.0063
6-May-10	16	2.09	12.45	4.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-May-10	17	1.50	11.46	2.79	0.23	0.12	0.0131	0.0039	0.0674	0.0006	0.000005	0.000009	0.0233	0.000016	4.37	0.00009	0.000019	0.0002	0.0060
20-May-10	18	1.83	10.89	2.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-May-10	19	2.64	13.30	0.91	0.23	0.12	0.0098	0.0036	0.0628	0.0002	0.000005	0.000005	0.0228	0.000015	4.12	0.00005	0.000016	0.0002	0.0027
3-Jun-10	20	1.38	12.30	2.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Jun-10	21	2.03	11.09	2.28	0.23	0.10	0.0116	0.0034	0.0628	0.0003	0.000005	0.000012	0.0228	0.000019	3.64	0.00009	0.000019	0.0002	0.0046
17-Jun-10	22	1.73	13.70	0.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Jun-10	23	1.23	13.57	3.22	0.23	0.09	0.0109	0.0043	0.0773	0.0003	0.000005	0.000006	0.0230	0.000013	4.07	0.00005	0.000015	0.0002	0.0046
1-Jul-10	24	1.19	12.32	2.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Jul-10	25	1.05	9.39	0.89	0.22	0.09	0.0119	0.0029	0.0570	0.0003	0.000004	0.000010	0.0223	0.000012	3.10	0.00004	0.000016	0.0002	0.0058
15-Jul-10	26	1.90	9.60	1.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Jul-10	27	1.77	11.85	1.92	0.24	0.10	0.0100	0.0031	0.0614	0.0003	0.000005	0.000006	0.0240	0.000013	3.69	0.00005	0.000016	0.0002	0.0038
29-Jul-10	28	1.97	10.47	0.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-Aug-10	29	1.08	9.94	0.90	0.23	0.08	0.0100	0.0026	0.0518	0.0005	0.000005	0.000006	0.0225	0.000011	3.23	0.00005	0.000014	0.0005	0.0054
12-Aug-10	30	2.12	11.05	0.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-Aug-10	31	2.28	9.98	0.87	0.22	0.08	0.0135	0.0026	0.0496	0.0004	0.000004	0.000014	0.0218	0.000014	3.11	0.00004	0.000015	0.0002	0.0096
26-Aug-10	32	1.31	10.43	2.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Sep-10	33	1.49	9.79	2.70	0.23	0.07	0.0113	0.0023	0.0513	0.0003	0.000005	0.000010	0.0225	0.000012	2.64	0.00009	0.000010	0.0003	0.0050
9-Sep-10	34	2.14	8.16	1.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Sep-10	35	1.43	9.71	2.25	0.23	0.07	0.0100	0.0024	0.0500	0.0002	0.000005	0.000005	0.0225	0.000013	3.01	0.00009	0.000011	0.0002	0.0045
23-Sep-10	36	1.12	8.24	3.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30-Sep-10	37	1.32	9.71	2.35	0.24	0.11	0.0109	0.0025	0.0512	0.0003	0.000005	0.000006	0.0235	0.000012	2.60	0.00005	0.000014	0.0003	0.0042
7-Oct-10	38	1.51	12.01	3.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Oct-10	39	1.82	8.87	3.06	0.31	0.06	0.0088	0.0022	0.0443	0.0002	0.000005	0.000003	0.0255	0.000010	2.89	0.00005	0.000013	0.0002	0.0026
21-Oct-10	40	1.69	8.27	2.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Oct-10	41	1.64	7.92	3.15	0.23	0.04	0.0130	0.0019	0.0392	0.0003	0.000005	0.000009	0.0225	0.000010	2.54	0.00005	0.000012	0.0002	0.0077
4-Nov-10	42	1.08	7.44	2.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Nov-10	43	1.29	11.44	0.97	0.24	0.06	0.0111	0.0024	0.0476	0.0003	0.000005	0.000004	0.0243	0.000012	3.60	0.00005	0.000014	0.0002	0.0073
18-Nov-10	44	1.43	10.11	0.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Nov-10	45	1.54	10.08	1.38	0.23	0.05	0.0087	0.0020	0.0457	0.0005	0.000005	0.000007	0.0230	0.000011	3.06	0.00005	0.000012	0.0007	0.0055
2-Dec-10	46	1.72	10.29	0.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9-Dec-10	47	1.57	10.14	0.92	0.23	0.06	0.0081	0.0024	0.0506	0.0005	0.000005	0.000005	0.0230	0.000008	3.06	0.00005	0.000007	0.0002	0.0041
16-Dec-10	48	2.26	9.93	2.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23-Dec-10	49	2.25	8.88	0.96	0.24	0.04	0.0109	0.0021	0.0455	0.0003	0.000005	0.000003	0.0240	0.000008	2.42	0.00005	0.000013	0.0001	0.0048
30-Dec-10	50	2.69	7.80	1.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Jan-11	51	2.79	10.13	1.41	0.24	0.06	0.0113	0.0020	0.0436	0.0003	0.000005	0.000006	0.0235	0.000008	2.70	0.00005	0.000008	0.0002	0.0056
13-Jan-11	52	1.95	9.42	1.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Jan-11	53	1.43	10.36	1.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-Jan-11	54	2.05	9.58	0.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Feb-11	55	1.56	10.61	3.36	0.24	0.05	0.0104	0.0023	0.0476	0.0002	0.000005	0.000006	0.0240	0.000014	3.25	0.00005	0.000010	0.0003	0.0048
10-Feb-11	56	1.53	10.19	0.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Feb-11	57	1.74	10.58	0.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Feb-11	58	1.98	12.61	3.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Mar-11	59	1.75	9.23	3.19	0.23	0.03	0.0083	0.0019	0.0415	0.0002	0.000005	0.000004	0.0228	0.000009	2.64	0.00005	0.000005	0.0003	0.0050
10-Mar-11	60	1.50	8.16	2.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Mar-11	61	1.46	10.28	2.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Mar-11	62	2.19	9.85	2.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Mar-11	63	2.01	9.54	1.86	0.23	0.03	0.0087	0.0018	0.0379	0.0002	0.000005	0.000003	0.0233	0.000008	2.51	0.00005	0.000006	0.0002	0.0033
7-Apr-11	64	2.19	9.99	1.90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Apr-11	65	2.56	12.25	1.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Apr-11	66	1.36	10.20	1.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

HC 11
Sample = DG05-308C 125.00-128.00
Sample Wt. (kg) 1 **Loadings**

Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
0.000005	0.14	0.064	10	0.000005	0.00001	0.0005	0.000666	0.0002	0.0011	0.0001
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0.000005	0.11	0.0731	10	0.000005	0.00022	0.0005	0.000641	0.0002	0.0004	0.0001
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0.000005	0.1	0.0544	10	0.000005	0.00002	0.0005	0.000523	0.0002	0.0011	0.0001
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0.000005	0.07	0.0587	10	0.000006	0.00004	0.0005	0.000607	0.0002	0.0005	0.0001
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0.000006	0.06	0.0525	10	0.000009	0.00001	0.0005	0.000466	0.0002	0.0011	0.0001
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0.000005	0.13	0.0621	10	0.000005	0.00016	0.0005	0.000571	0.0002	0.0012	0.0001

Date	Cycle	Acidity (pH 8.3) mgCaCO3/kg/wk	Alkalinity mgCaCO3/kg/wk	Sulphate mg/kg/wk	Chloride mg/kg/wk	Fluoride mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk
28-Apr-11	67	1.55	10.16	2.38	0.24	0.05	0.0104	0.0020	0.0418	0.0002	0.000005	0.000004	0.0238	0.000014	2.63	0.00005	0.000018	0.0003	0.0057
5-May-11	68	1.57	9.36	1.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12-May-11	69	1.77	10.46	1.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19-May-11	70	--	6.98	1.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26-May-11	71	2.03	9.14	1.35	0.23	0.03	0.0100	0.0025	0.0445	0.0003	0.000005	0.000003	0.0225	0.000007	2.97	0.00005	0.000005	0.0001	0.0036
2-Jun-11	72	2.41	9.01	1.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9-Jun-11	73	1.55	9.61	1.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-Jun-11	74	1.72	10.07	0.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23-Jun-11	75	0.99	7.34	1.84	0.23	0.03	0.0126	0.0022	0.0396	0.0002	0.000005	0.000005	0.0230	0.000006	2.54	0.00005	0.000005	0.0002	0.0078
30-Jun-11	76	2.01	8.21	1.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Jul-11	77	1.90	11.09	1.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Jul-11	78	2.38	10.70	1.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Jul-11	79	1.92	8.22	0.97	0.24	0.03	0.0101	0.0023	0.0444	0.0002	0.000005	0.000002	0.0243	0.000006	2.65	0.00005	0.000003	0.0001	0.0034
28-Jul-11	80	2.20	9.91	0.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Aug-11	81	1.84	7.32	0.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Aug-11	82	2.07	11.86	0.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Aug-11	83	1.34	7.76	0.92	0.37	0.02	0.0096	0.0020	0.0365	0.0002	0.000005	0.000004	0.0230	0.000002	2.24	0.00005	0.000006	0.0002	0.0046
25-Aug-11	84	2.45	9.72	0.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Sep-11	85	2.02	8.96	1.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Sep-11	86	1.85	6.89	1.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15-Sep-11	87	1.76	10.26	0.88	0.22	0.02	0.0132	0.0021	0.0376	0.0005	0.000004	0.000012	0.0220	0.000010	2.53	0.00009	0.000009	0.0002	0.0097

Cell Terminated

Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.00001	0.0027	2.90	0.0497	0.000042	0.0089	0.00050	0.0060	1.20	0.0219	0.81	0.000004	4.03	0.32	26.25	0.000005	0.000004	0.0002	0.0017	0.0001	0.0341	0.00004
0.00001	0.0032	3.07	0.0447	0.000009	0.0143	0.00029	0.0061	1.61	0.0248	1.10	0.000011	4.18	0.35	28.20	0.000006	0.000005	0.0002	0.0022	0.0001	0.0011	0.00005
0.00004	0.0024	1.76	0.0270	0.000010	0.0142	0.00020	0.0072	1.19	0.0134	1.00	0.000002	2.41	0.22	14.40	0.000004	0.000086	0.0003	0.0016	0.0001	0.0005	0.00005
0.00007	0.0017	1.06	0.0160	0.000005	0.0120	0.00017	0.0072	0.82	0.0076	0.81	0.000002	1.47	0.13	8.16	0.000004	0.000086	0.0002	0.0010	0.0001	0.0005	0.00005
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0.00006	0.0017	0.89	0.0111	0.000004	0.0150	0.00015	0.0092	0.98	0.0049	1.07	0.000002	1.20	0.10	4.40	0.000004	0.000062	0.0002	0.0011	0.0001	0.0009	0.00004
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0.00006	0.0011	0.46	0.0072	0.000005	0.0087	0.00009	0.0059	0.57	0.0030	0.63	0.000002	0.46	0.05	2.73	0.000002	0.000009	0.0002	0.0005	0.0001	0.0003	0.00005
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0.00010	0.0011	0.41	0.0066	0.000005	0.0085	0.00012	0.0053	0.55	0.0027	0.60	0.000002	0.36	0.05	4.80	0.000002	0.000010	0.0002	0.0005	0.0001	0.0005	0.00005
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0.00009	0.0010	0.38	0.0061	0.000005	0.0086	0.00008	0.0051	0.54	0.0024	0.57	0.000002	0.31	0.05	1.40	0.000004	0.000037	0.0002	0.0004	0.0001	0.0012	0.00005
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0.00007	0.0013	0.47	0.0066	0.000005	0.0115	0.00011	0.0074	0.74	0.0031	0.79	0.000002	0.35	0.06	4.90	0.000003	0.000039	0.0002	0.0006	0.0001	0.0004	0.00005
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0.00012	0.0013	0.42	0.0057	0.000005	0.0102	0.00011	0.0058	0.67	0.0029	0.77	0.000002	0.28	0.05	4.85	0.000002	0.000010	0.0002	0.0006	0.0001	0.0005	0.00005
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0.00010	0.0012	0.40	0.0067	0.000005	0.0093	0.00008	0.0070	0.68	0.0025	0.91	0.000002	0.21	0.05	4.65	0.000004	0.000005	0.0002	0.0005	0.0001	0.0005	0.00005
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0.00003	0.0011	0.38	0.0051	0.000005	0.0086	0.00004	0.0059	0.65	0.0024	0.76	0.000002	0.16	0.05	4.55	0.000003	0.000005	0.0002	0.0005	0.0001	0.0002	0.00005
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0.00008	0.0010	0.37	0.0043	0.000005	0.0078	0.00007	0.0059	0.66	0.0023	0.71	0.000003	0.15	0.04	4.55	0.000006	0.000005	0.0002	0.0004	0.0001	0.0004	0.00005
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0.00004	0.0012	0.41	0.0039	0.000005	0.0100	0.00006	0.0074	0.75	0.0027	0.84	0.000002	0.16	0.05	4.60	0.000002	0.000005	0.0002	0.0006	0.0001	0.0002	0.00005
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0.00010	0.0009	0.33	0.0030	0.000004	0.0066	0.00006	0.0062	0.59	0.0019	0.59	0.000002	0.12	0.04	4.45	0.000002	0.000004	0.0002	0.0004	0.0001	0.0003	0.00004
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0.00004	0.0011	0.37	0.0029	0.000005	0.0079	0.00013	0.0062	0.62	0.0023	0.69	0.000002	0.11	0.05	4.80	0.000002	0.000005	0.0002	0.0006	0.0001	0.0004	0.00005
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0.00006	0.0009	0.32	0.0025	0.000005	0.0066	0.00007	0.0050	0.57	0.0019	0.59	0.000002	0.09	0.04	4.50	0.000002	0.000005	0.0002	0.0004	0.0001	0.0003	0.00005
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0.00010	0.0008	0.30	0.0026	0.000004	0.0068	0.00007	0.0044	0.51	0.0019	0.54	0.000003	0.10	0.04	4.35	0.000003	0.000004	0.0002	0.0003	0.0001	0.0004	0.00004
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0.00007	0.0009	0.29	0.0020	0.000005	0.0056	0.00009	0.0045	0.54	0.0017	0.45	0.000002	0.09	0.03	4.50	0.000003	0.000014	0.0002	0.0003	0.0001	0.0003	0.00005
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0.00014	0.0008	0.30	0.0020	0.000005	0.0059	0.00008	0.0050	0.55	0.0016	0.53	0.000002	0.09	0.04	4.50	0.000002	0.000005	0.0002	0.0004	0.0001	0.0002	0.00005
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0.00004	0.0008	0.24	0.0016	0.000005	0.0053	0.00008	0.0047	0.51	0.0018	0.47	0.000002	0.07	0.03	4.70	0.000002	0.000005	0.0002	0.0003	0.0001	0.0004	0.00005
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0.00004	0.0008	0.24	0.0018	0.000005	0.0045	0.00006	0.0041	0.52	0.0015	0.50	0.000003	0.07	0.03	5.10	0.000002	0.000005	0.0003	0.0003	0.0001	0.0002	0.00005
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0.00010	0.0007	0.21	0.0017	0.000005	0.0041	0.00004	0.0041	0.45	0.0014	0.45	0.000002	0.05	0.03	4.50	0.000002	0.000005	0.0002	0.0003	0.0001	0.0005	0.00005
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0.00009	0.0009	0.29	0.0020	0.000005	0.0059	0.00003	0.0053	0.50	0.0018	0.63	0.000002	0.11	0.04	4.85	0.000001	0.000005	0.0002	0.0004	0.0001	0.0003	0.00005
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0.00006	0.0008	0.27	0.0014	0.000005	0.0056	0.00015	0.0046	0.52	0.0015	0.48	0.000002	0.08	0.04	4.60	0.000002	0.000009	0.0002	0.0004	0.0001	0.0005	0.00005
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0.00018	0.0011	0.28	0.0030	0.000009	0.0056	0.00007	0.0037	0.54	0.0016	0.52	0.000002	0.06	0.04	4.60	0.000001	0.000005	0.0002	0.0004	0.0001	0.0003	0.00005
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0.00004	0.0007	0.22	0.0008	0.000005	0.0041	0.00007	0.0034	0.47	0.0014	0.43	0.000002	0.05	0.03	4.80	0.000004	0.000005	0.0002	0.0003	0.0001	0.0003	0.00005
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0.00006	0.0008	0.23	0.0010	0.000005	0.0032	0.00008	0.0033	0.47	0.0014	0.49	0.000002	0.06	0.03	4.70	0.000003	0.000005	0.0002	0.0003	0.0001	0.0003	0.00005
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0.00004	0.0009	0.26	0.0009	0.000005	0.0047	0.00008	0.0043	0.53	0.0015	0.54	0.000004	0.05	0.04	4.80	0.000003	0.000005	0.0002	0.0004	0.0001	0.0003	0.00005
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0.00003	0.0008	0.23	0.0006	0.000005	0.0037	0.00008	0.0027	0.47	0.0012	0.42	0.000011	0.05	0.03	4.55	0.000002	0.000005	0.0002	0.0003	0.0001	0.0004	0.00005
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0.00003	0.0007	0.20	0.0004	0.000005	0.0040	0.00005	0.0042	0.41	0.0011	0.38	0.000002	0.05	0.03	4.65	0.000002	0.000005	0.0002	0.0003	0.0001	0.0001	0.00005
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Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.00004	0.0007	0.22	0.0005	0.000005	0.0046	0.00013	0.0033	0.45	0.0013	0.41	0.000002	0.07	0.03	4.75	0.000002	0.000005	0.0002	0.0003	0.0001	0.0005	0.00005
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0.00002	0.0008	0.23	0.0004	0.000005	0.0045	0.00001	0.0041	0.46	0.0014	0.50	0.000002	0.05	0.03	4.50	0.000002	0.000099	0.0002	0.0003	0.0001	0.0002	0.00005
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0.00007	0.0006	0.17	0.0004	0.000005	0.0036	0.00005	0.0032	0.37	0.0014	0.44	0.000002	0.05	0.03	4.60	0.000002	0.000009	0.0002	0.0002	0.0001	0.0005	0.00005
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0.00002	0.0007	0.20	0.0003	0.000005	0.0036	0.00001	0.0034	0.41	0.0015	0.48	0.000002	0.03	0.03	4.85	0.000003	0.000019	0.0002	0.0003	0.0001	0.0002	0.00005
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0.00004	0.0006	0.15	0.0003	0.000005	0.0028	0.00004	0.0032	0.34	0.0011	0.35	0.000003	0.03	0.02	4.60	0.000004	0.000005	0.0002	0.0002	0.0001	0.0005	0.00005
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0.00007	0.0007	0.18	0.0005	0.000004	0.0033	0.00003	0.0035	0.39	0.0011	0.37	0.000002	0.06	0.03	4.40	0.000002	0.000070	0.0002	0.0003	0.0001	0.0005	0.00004

HC 12
Sample = 48158
Sample Wt. (kg) 1

Concentrations

Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
26-Jul-12	0	500	375	7.18	1	501	7.87	31.97	172	9.5	0.42	143	0.0939	0.0316	0.092	0.0269	0.00001	0.000009	0.05	0.00003	48.2	0.0002	0.000451	0.00602	0.004	0.000227	0.0111	5.39	0.0286	0.00001	0.0094	0.0025	0.0167	4.82	0.0127
2-Aug-12	1	500	450	7.73	349	312	4.02	28.55	107	3.4	0.32	87.2	0.0473	0.0336	0.115	0.0139	0.00001	0.000011	0.05	0.000017	29.9	0.0001	0.0002	0.00262	0.005	0.000311	0.0067	3.02	0.0191	0.00001	0.0088	0.000851	0.0028	3.17	0.00936
9-Aug-12	2	500	430	7.65	152	234	5.37	36.54	78	0.93	0.37	68.9	0.0492	--	0.153	0.0101	0.00001	0.000012	0.05	0.000011	23.9	0.0001	0.000123	0.00129	0.002	0.000127	0.0055	2.27	0.0138	0.00001	--	0.000584	0.0048	2.92	0.00515
16-Aug-12	3	500	440	7.69	316	120	3.65	25.62	34	0.5	0.25	35.2	0.0545	0.0339	0.111	0.00686	0.00001	0.000012	0.05	--	12.1	0.0001	0.000087	0.00484	--	--	0.0034	1.23	0.0091	0.00001	0.0061	0.000376	--	2.27	0.00252
23-Aug-12	4	500	425	7.8	172	97	5.79	24.38	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30-Aug-12	5	500	455	7.5	358	90	4.69	24.14	19	0.5	0.2	27.6	0.0332	0.0385	0.0918	0.00387	0.00001	--	0.05	0.000005	9.37	0.0001	0.000043	0.00059	0.001	0.000062	0.0028	1.03	0.0072	0.00001	0.0056	0.000216	0.002	1.71	0.00185
6-Sep-12	6	500	445	7.61	321	77	3.77	21.63	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-Sep-12	7	500	420	7.59	352	84	3.18	23.56	16	0.5	0.2	27.8	0.064	0.0382	0.0994	0.00374	0.00001	0.00001	0.05	0.000005	9.47	0.0001	0.000047	0.00239	0.006	0.000119	0.0028	1.01	0.007	0.00001	0.0038	0.000442	0.002	1.61	0.0014
20-Sep-12	8	500	420	7.67	329	77	4.64	25.97	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-Sep-12	9	500	420	7.63	351	64	3.11	22.74	10	0.5	0.15	22.1	0.0434	0.0343	0.0764	0.00311	0.00001	0.000009	0.05	--	7.44	0.0001	0.000028	0.00102	0.002	0.000211	0.0027	0.859	0.0054	0.00001	0.0033	0.000129	0.002	1.33	0.00129
4-Oct-12	10	500	450	7.67	343	58	3.84	20.94	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Oct-12	11	500	480	7.61	292	57	5.58	22.97	10	0.5	0.11	21.8	0.0194	0.0336	0.0533	0.00346	0.00001	0.000007	0.05	0.000007	7.22	0.0001	0.000044	0.0007	0.001	0.000039	0.0023	0.904	0.0053	0.00001	0.0020	0.000177	0.0026	1.21	0.00124
18-Oct-12	12	500	465	7.65	347	68	3.58	23.83	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Oct-12	13	500	465	7.63	344	70	3.17	24	13	0.5	0.14	27	0.0313	0.0373	0.0687	0.00349	0.00001	0.000007	0.05	0.000005	9.11	0.0001	0.000029	0.00078	0.003	0.000091	0.0025	1.02	0.0055	0.00001	0.0023	0.00015	0.002	1.4	0.00103
1-Nov-12	14	500	475	7.52	372	70	5.73	26.92	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Nov-12	15	500	460	7.15	432	66	4.62	20.11	13	0.5	0.11	28.2	0.0392	0.0303	0.0606	0.0037	0.00001	0.000009	0.05	0.000007	9.61	0.0001	0.000031	0.00049	0.001	0.000075	0.0021	1.01	0.0061	0.00001	0.0018	0.000205	0.0029	1.31	0.000901
15-Nov-12	16	500	455	7.87	370	77	8.89	26.91	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Nov-12	17	500	490	7.69	355	95	4.15	34.2	13	0.5	0.22	40.4	0.0396	0.0634	0.113	0.0062	0.00001	0.000006	0.05	0.000008	13.6	0.0001	0.000032	0.00062	0.003	0.000082	0.0039	1.59	0.005	0.00001	0.0023	0.000174	0.002	2.21	0.00171
29-Nov-12	18	500	505	7.47	412	95	8.82	37.8	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Dec-12	19	500	455	7	417	56	5.9	17.58	10	0.5	0.087	24.9	0.0473	0.0288	0.0502	0.00287	0.00001	0.000008	0.05	0.000012	8.47	0.0001	0.000025	0.00111	0.019	0.000094	0.0017	0.913	0.0039	0.00001	0.0013	0.000153	0.002	1.08	0.000659
13-Dec-12	20	500	490	7.88	328	82	6.67	31.61	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Dec-12	21	500	485	7.48	386	86	4.65	33.17	16	0.5	0.19	41.7	0.0436	0.06	0.101	0.00539	0.00001	0.000013	0.05	0.000005	13.9	0.0001	0.000029	0.00046	0.001	0.000055	0.0033	1.7	0.0053	0.00001	0.0021	0.000151	0.002	1.98	0.00145
27-Dec-12	22	500	460	7.81	251	62	6.64	26.79	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Jan-13	23	500	465	7.16	361	58	4.68	21.68	8	0.53	0.096	24.7	0.0448	0.0304	0.0538	0.00292	0.00001	0.000005	0.05	0.000029	8.17	0.0001	0.000019	0.00037	0.001	0.000083	0.0016	1.05	0.0038	0.00001	0.0010	0.000066	0.002	1.1	0.000715
10-Jan-13	24	500	480	7.82	309	75	6.14	27.89	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Jan-13	25	500	475	7.65	360	71	3.09	27.61	16	0.5	0.12	31.4	0.046	0.038	0.0562	0.00387	0.00001	0.00001	0.05	0.000022	10.5	0.0001	0.000021	0.00088	0.002	--	0.0018	1.25	0.0031	0.00001	0.0016	0.000249	0.0025	1.29	0.00118
24-Jan-13	26	500	480	7.82	289	71	5.18	25.74	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Jan-13	27	500	420	7.24	424	76	3.85	23.41	17	0.5	0.13	34.7	0.0517	0.038	0.0589	0.00389	0.00001	0.00001	0.05	0.000007	11.8	0.0001	0.000019	0.00029	0.004	0.000055	0.0022	1.26	0.0023	0.00001	0.0017	0.000144	0.002	1.31	0.00109
7-Feb-13	28	500	475	7.85	373	66	6.15	24.71	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Feb-13	29	500	445	6.77	400	61	5.63	16.98	12	0.5	0.12	26.2	0.0419	0.029	0.0466	0.00304	0.00001	0.000007	0.05	0.000007	8.9	0.0001	0.000014	0.00097	0.002	0.00008	0.0017	0.961	0.0017	0.00001	0.0014	0.000623	0.002	1.04	0.000747
21-Feb-13	30	500	455	7.76	388	56	5.23	21.34	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Feb-13	31	500	460	7.02	423	60	6.45	20.81	14	0.5	0.096	24.6	0.0467	0.0239	0.0405	0.0025	0.00001	0.000016	0.05	0.000005	8.38	0.0001	0.000013	0.00023	0.002	0.000055	0.0015	0.882	0.0017	0.00001	0.0016	0.00006	0.0022	0.952	0.000816
7-Mar-13	32	500	475	7.88	360	64	7.26	23.56	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Mar-13	33	500	460	7.43	355	52	5.54	15.31	11	0.5	0.083	22.1	0.0336	0.0216	0.03	0.00253	0.00001	0.000008	0.05	0.000005	7.53	0.0001	0.000011	0.00021	0.002	0.000054	0.0012	0.793	0.0013	0.00001	0.0017	0.00013	0.002	0.808	0.000742
21-Mar-13	34	500	470	7.85	373	60	6.52	18.07	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Mar-13	35	500	490	7.21	447	70	4.35	17.58	13	0.5	0.14	32.5	0.0382	0.0334	0.0439	0.00345	0.00001	0.000009	0.05	0.000007	11.2	0.0001	0.00001	0.00034	0.001	0.000039	0.0019	1.12	0.0017	0.00001	0.0035	0.000097	0.002	1.11	0.0012
4-Apr-13	36	500	465	7.86	380	72	7.1	26.47	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Apr-13	37	500	460	7.74	396	69	4.77	24.15	15	0.5	0.16	28.8	0.0496	0.0375	0.0562	0.00337	0.00001	0.000013	0.05	0.00001	9.67	0.0001	0.000014	0.00112	0.002	0.000084	0.002	1.13	0.001	0.00001	0.0042	0.000129	0.002	1.21	0.00141
18-Apr-13	38	500	475	7.82	379	79	5.89	29.36	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Apr-13	39	500	455	7.21	342	70	4.46	23.21	12	0.5	0.19	29.9	0.0435	0.0425	0.0623	0.00369	0.00001	0.000009	0.05	0.000005	10	0.0001	0.000024	0.00035	0.001	0.00003	0.0022	1.17	0.0005	0.00001	0.0042	0.000174	0.002	1.35	0.00141
2-May-13	40	500	470	7.86	385	71	6.1	28.1	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9-May-13	41	500	460	7.71	408	70	5.53	27.01	11	0.63	0.15	30.8	0.0517	0.0393	0.0591	0.00354	0.00001	0.000016	0.05	0.000007	10.3	0.0001	0.000009	0.00037	0.003	0.000099	0.0021	1.25	0.0005	0.00001	0.0041	0.000112	0.002	1.29	0.00123
16-May-13	42	500	455	7.84	410	74	7.67	27.56	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23-May-13	43	500	465	7.41	441	61	5.14	21.02	14	0.53	0.11	27.3	0.0471	0.0307	0.043	0.00315	0.00001	0.000011	0.05	0.000007	9.12	0.0001	0.000009	0.00053	0.003	0.000068	0.0017	1.11	0.0003	0.00001	0.0035	0.000145	0.002	1.02	0.000912

Cell Terminated

HC 12
Sample = 48158
Sample Wt. (kg) 1

Loadings

Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1.7	0.000091	35.8	1.18	64	0.000022	0.0002	0.0005	0.0122	0.00072	0.0028	0.0001
1.4	0.000005	20.1	0.767	38	0.000013	0.00108	0.0005	0.01	0.0002	0.0027	0.0001
1.93	0.000005	14.4	0.6	24	0.000016	0.0002	0.0005	0.0152	0.00022	0.0004	0.0001
1.09	--	7.64	0.299	12	0.000009	0.0002	0.0005	0.0076	0.00021	0.0039	0.0001
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1.01	0.000005	5.04	0.215	10	0.000007	0.0002	0.0005	0.00753	0.0003	0.0004	0.0001
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1.23	0.000005	3.67	0.216	10	0.000005	0.0002	0.00063	0.00667	0.0002	0.0021	0.0001
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0.885	0.000005	2.16	0.179	10	0.000008	0.0002	0.0005	0.0064	0.00038	0.0015	0.0001
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0.826	0.000005	1.27	0.176	10	0.000003	0.0002	0.0005	0.00848	0.0002	0.0004	0.0001
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0.946	0.000005	1.24	0.215	10	0.000006	0.00036	0.0005	0.00671	0.0002	0.0006	0.0001
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0.864	0.000005	0.768	0.214	4.9	0.000006	0.00073	0.0005	0.00531	0.00023	0.0004	0.0001
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1.73	0.000005	1.06	0.312	5.8	0.000009	0.00031	0.0005	0.0116	0.0002	0.0005	0.0001
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0.735	0.000005	0.297	0.179	3.6	0.000005	0.00198	0.0005	0.00455	0.0002	--	0.0001
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1.49	0.000005	0.518	0.324	6.1	0.000008	0.0002	0.0005	0.00908	0.0002	0.0009	0.0001
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0.694	0.000005	0.256	0.194	4.1	0.000012	0.0002	0.0005	0.00387	0.0002	0.0048	0.0001
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0.894	0.000005	0.3	0.239	5.5	0.000006	0.0002	0.0005	0.00632	0.0002	0.0019	0.0001
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0.94	0.000005	0.316	0.268	6.7	0.000006	0.00021	0.0005	0.00541	0.0002	0.0004	0.0001
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0.719	0.000005	0.218	0.19	4.1	0.000006	0.0002	0.0005	0.00422	0.0002	0.0007	0.0001
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0.618	0.000005	0.188	0.182	3.9	0.000006	0.00037	0.0005	0.00367	0.00027	0.0001	0.0001
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0.475	0.000005	0.156	0.161	3.4	0.000003	0.0002	0.0005	0.00325	0.00044	0.0002	0.0001
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0.909	0.000005	0.225	0.22	5.3	0.000003	0.0002	0.0005	0.00462	0.0002	0.0003	0.0001
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0.856	0.000005	0.217	0.218	4	0.000018	0.0002	0.00117	0.00534	0.00083	--	0.0001
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0.946	0.000006	0.205	0.225	3.6	0.000006	0.0002	0.0005	0.00589	0.0002	0.0002	0.0001
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0.946	0.000012	0.174	0.221	3.9	0.000005	0.0002	0.0005	0.006	0.0002	0.0003	0.0001
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0.708	0.000011	0.138	0.196	3.2	0.000005	0.0002	0.0005	0.00507	0.00055	0.0003	0.0001

Date	Cycle	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co
		mgCaCO3/kg/wk	mgCaCO3/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
26-Jul-12	0	2.95	11.99	64.50	3.56	0.16	0.0352	0.0119	0.0345	0.0101	0.000004	0.000003	0.0188	0.000011	18.08	0.000064	0.000169
2-Aug-12	1	1.81	12.85	48.15	1.53	0.14	0.0213	0.0151	0.0518	0.0063	0.000005	0.000005	0.0225	0.000008	13.46	0.000045	0.000090
9-Aug-12	2	2.31	15.71	33.54	0.40	0.16	0.0212	--	0.0658	0.0043	0.000004	0.000005	0.0215	0.000005	10.28	0.000043	0.000053
16-Aug-12	3	1.61	11.27	14.96	0.22	0.11	0.0240	0.0149	0.0488	0.0030	0.000004	0.000005	0.0220	--	5.32	0.000044	0.000038
23-Aug-12	4	2.46	10.36	9.78	--	--	--	--	--	--	--	--	--	--	--	--	--
30-Aug-12	5	2.13	10.98	8.65	0.23	0.09	0.0151	0.0175	0.0418	0.0018	0.000005	--	0.0228	0.000002	4.26	0.000046	0.000020
6-Sep-12	6	1.68	9.63	5.79	--	--	--	--	--	--	--	--	--	--	--	--	--
13-Sep-12	7	1.34	9.90	6.72	0.21	0.08	0.0269	0.0160	0.0417	0.0016	0.000004	0.000004	0.0210	0.000002	3.98	0.000042	0.000020
20-Sep-12	8	1.95	10.91	7.14	--	--	--	--	--	--	--	--	--	--	--	--	--
27-Sep-12	9	1.31	9.55	4.20	0.21	0.06	0.0182	0.0144	0.0321	0.0013	0.000004	0.000004	0.0210	--	3.12	0.000042	0.000012
4-Oct-12	10	1.73	9.42	4.95	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Oct-12	11	2.68	11.03	4.80	0.24	0.05	0.0093	0.0161	0.0256	0.0017	0.000005	0.000003	0.0240	0.000003	3.47	0.000048	0.000021
18-Oct-12	12	1.66	11.08	4.65	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Oct-12	13	1.47	11.16	6.05	0.23	0.07	0.0146	0.0173	0.0319	0.0016	0.000005	0.000003	0.0233	0.000002	4.24	0.000047	0.000013
1-Nov-12	14	2.72	12.79	6.18	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Nov-12	15	2.13	9.25	5.98	0.23	0.05	0.0180	0.0139	0.0279	0.0017	0.000005	0.000004	0.0230	0.000003	4.42	0.000046	0.000014
15-Nov-12	16	4.04	12.24	8.19	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Nov-12	17	2.03	16.76	6.37	0.25	0.11	0.0194	0.0311	0.0554	0.0030	0.000005	0.000003	0.0245	0.000004	6.66	0.000049	0.000016
29-Nov-12	18	4.45	19.09	6.57	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Dec-12	19	2.68	8.00	4.55	0.23	0.04	0.0215	0.0131	0.0228	0.0013	0.000005	0.000004	0.0228	0.000005	3.85	0.000046	0.000011
13-Dec-12	20	3.27	15.49	6.86	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Dec-12	21	2.26	16.09	7.76	0.24	0.09	0.0211	0.0291	0.0490	0.0026	0.000005	0.000006	0.0243	0.000002	6.74	0.000049	0.000014
27-Dec-12	22	3.05	12.32	3.68	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Jan-13	23	2.18	10.08	3.72	0.25	0.04	0.0208	0.0141	0.0250	0.0014	0.000005	0.000002	0.0233	0.000013	3.80	0.000047	0.000009
10-Jan-13	24	2.95	13.39	7.20	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Jan-13	25	1.47	13.11	7.60	0.24	0.06	0.0219	0.0181	0.0267	0.0018	0.000005	0.000005	0.0238	0.000010	4.99	0.000048	0.000010
24-Jan-13	26	2.49	12.36	6.24	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Jan-13	27	1.62	9.83	7.14	0.21	0.05	0.0217	0.0160	0.0247	0.0016	0.000004	0.000004	0.0210	0.000003	4.96	0.000042	0.000008
7-Feb-13	28	2.92	11.74	5.70	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Feb-13	29	2.51	7.56	5.34	0.22	0.05	0.0186	0.0129	0.0207	0.0014	0.000004	0.000003	0.0223	0.000003	3.96	0.000045	0.000006
21-Feb-13	30	2.38	9.71	5.46	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Feb-13	31	2.97	9.57	6.44	0.23	0.04	0.0215	0.0110	0.0186	0.0012	0.000005	0.000007	0.0230	0.000002	3.85	0.000046	0.000006
7-Mar-13	32	3.45	11.19	6.65	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Mar-13	33	2.55	7.04	5.06	0.23	0.04	0.0155	0.0099	0.0138	0.0012	0.000005	0.000004	0.0230	0.000002	3.46	0.000046	0.000005
21-Mar-13	34	3.06	8.49	6.11	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Mar-13	35	2.13	8.61	6.37	0.25	0.07	0.0187	0.0164	0.0215	0.0017	0.000005	0.000004	0.0245	0.000003	5.49	0.000049	0.000005
4-Apr-13	36	3.30	12.31	6.98	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Apr-13	37	2.19	11.11	6.90	0.23	0.07	0.0228	0.0173	0.0259	0.0016	0.000005	0.000006	0.0230	0.000005	4.45	0.000046	0.000006
18-Apr-13	38	2.80	13.95	5.70	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Apr-13	39	2.03	10.56	5.46	0.23	0.09	0.0198	0.0193	0.0283	0.0017	0.000005	0.000004	0.0228	0.000002	4.55	0.000046	0.000011
2-May-13	40	2.87	13.21	5.17	--	--	--	--	--	--	--	--	--	--	--	--	--
9-May-13	41	2.54	12.42	5.06	0.29	0.07	0.0238	0.0181	0.0272	0.0016	0.000005	0.000007	0.0230	0.000003	4.74	0.000046	0.000004
16-May-13	42	3.49	12.54	4.55	--	--	--	--	--	--	--	--	--	--	--	--	--
23-May-13	43	2.39	9.77	6.51	0.25	0.05	0.0219	0.0143	0.0200	0.0015	0.000005	0.000005	0.0233	0.000003	4.24	0.000047	0.000004

Cell Terminated

Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.0023	0.0013	0.00009	0.0042	2.02	0.0107	0.000004	0.0035	0.00094	0.0063	1.81	0.0048	0.64	0.000034	13.43	0.44	24.00	0.00001	0.00008	0.0002	0.0046	0.0003	0.0010	0.00004
0.0012	0.0020	0.00014	0.0030	1.36	0.0086	0.000005	0.0039	0.00038	0.0013	1.43	0.0042	0.63	0.000002	9.05	0.35	17.10	0.00001	0.00049	0.0002	0.0045	0.0001	0.0012	0.00005
0.0006	0.0009	0.00005	0.0024	0.98	0.0059	0.000004	--	0.00025	0.0021	1.26	0.0022	0.83	0.000002	6.19	0.26	10.32	0.00001	0.00009	0.0002	0.0065	0.0001	0.0002	0.00004
0.0021	--	--	0.0015	0.54	0.0040	0.000004	0.0027	0.00017	--	1.00	0.0011	0.48	--	3.36	0.13	5.28	0.00000	0.00009	0.0002	0.0033	0.0001	0.0017	0.00004
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0.0003	0.0005	0.00003	0.0013	0.47	0.0033	0.000005	0.0025	0.00010	0.0009	0.78	0.0008	0.46	0.000002	2.29	0.10	4.55	0.00000	0.00009	0.0002	0.0034	0.0001	0.0002	0.00005
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0.0010	0.0026	0.00005	0.0012	0.42	0.0030	0.000004	0.0016	0.00019	0.0008	0.68	0.0006	0.52	0.000002	1.54	0.09	4.20	0.00000	0.00008	0.0003	0.0028	0.0001	0.0009	0.00004
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0.0004	0.0008	0.00009	0.0012	0.36	0.0023	0.000004	0.0014	0.00005	0.0008	0.56	0.0005	0.37	0.000002	0.91	0.08	4.20	0.00000	0.00008	0.0002	0.0027	0.0002	0.0006	0.00004
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0.0003	0.0005	0.00002	0.0011	0.43	0.0026	0.000005	0.0010	0.00008	0.0012	0.58	0.0006	0.40	0.000002	0.61	0.08	4.80	0.00000	0.00010	0.0002	0.0041	0.0001	0.0002	0.00005
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0.0004	0.0015	0.00004	0.0011	0.47	0.0026	0.000005	0.0011	0.00007	0.0009	0.65	0.0005	0.44	0.000002	0.58	0.10	4.65	0.00000	0.00017	0.0002	0.0031	0.0001	0.0003	0.00005
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0.0002	0.0006	0.00003	0.0009	0.46	0.0028	0.000005	0.0008	0.00009	0.0013	0.60	0.0004	0.40	0.000002	0.35	0.10	2.25	0.00000	0.00034	0.0002	0.0024	0.0001	0.0002	0.00005
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0.0003	0.0013	0.00004	0.0019	0.78	0.0025	0.000005	0.0011	0.00009	0.0010	1.08	0.0008	0.85	0.000002	0.52	0.15	2.84	0.00000	0.00015	0.0002	0.0057	0.0001	0.0002	0.00005
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0.0005	0.0086	0.00004	0.0008	0.42	0.0018	0.000005	0.0006	0.00007	0.0009	0.49	0.0003	0.33	0.000002	0.14	0.08	1.64	0.00000	0.00090	0.0002	0.0021	0.0001	--	0.00005
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0.0002	0.0005	0.00003	0.0016	0.82	0.0026	0.000005	0.0010	0.00007	0.0010	0.96	0.0007	0.72	0.000002	0.25	0.16	2.96	0.00000	0.00010	0.0002	0.0044	0.0001	0.0004	0.00005
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0.0002	0.0005	0.00004	0.0008	0.49	0.0018	0.000005	0.0004	0.00003	0.0009	0.51	0.0003	0.32	0.000002	0.12	0.09	1.91	0.00001	0.00009	0.0002	0.0018	0.0001	0.0022	0.00005
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0.0004	0.0007	--	0.0009	0.59	0.0015	0.000005	0.0008	0.00012	0.0012	0.61	0.0006	0.42	0.000002	0.14	0.11	2.61	0.00000	0.00010	0.0002	0.0030	0.0001	0.0009	0.00005
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0.0001	0.0016	0.00002	0.0009	0.53	0.0010	0.000004	0.0007	0.00006	0.0008	0.55	0.0005	0.39	0.000002	0.13	0.11	2.81	0.00000	0.00009	0.0002	0.0023	0.0001	0.0001	0.00004
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0.0004	0.0011	0.00004	0.0007	0.43	0.0008	0.000004	0.0006	0.00028	0.0009	0.46	0.0003	0.32	0.000002	0.10	0.08	1.82	0.00000	0.00009	0.0002	0.0019	0.0001	0.0003	0.00004
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0.0001	0.0011	0.00003	0.0007	0.41	0.0008	0.000005	0.0007	0.00003	0.0010	0.44	0.0004	0.28	0.000002	0.09	0.08	1.79	0.00000	0.00017	0.0002	0.0017	0.0001	0.0001	0.00005
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0.0001	0.0008	0.00002	0.0005	0.36	0.0006	0.000005	0.0008	0.00006	0.0009	0.37	0.0003	0.22	0.000002	0.07	0.07	1.56	0.00000	0.00009	0.0002	0.0015	0.0002	0.0001	0.00005
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0.0002	0.0006	0.00002	0.0009	0.55	0.0009	0.000005	0.0017	0.00005	0.0010	0.54	0.0006	0.45	0.000002	0.11	0.11	2.60	0.00000	0.00010	0.0002	0.0023	0.0001	0.0002	0.00005
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0.0005	0.0007	0.00004	0.0009	0.52	0.0004	0.000005	0.0019	0.00006	0.0009	0.56	0.0006	0.39	0.000002	0.10	0.10	1.84	0.00001	0.00009	0.0005	0.0025	0.0004	--	0.00005
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0.0002	0.0005	0.00001	0.0010	0.53	0.0002	0.000005	0.0019	0.00008	0.0009	0.61	0.0006	0.43	0.000003	0.09	0.10	1.64	0.00000	0.00009	0.0002	0.0027	0.0001	0.0001	0.00005
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0.0002	0.0015	0.00005	0.0010	0.58	0.0002	0.000005	0.0019	0.00005	0.0009	0.59	0.0006	0.44	0.000006	0.08	0.10	1.79	0.00000	0.00009	0.0002	0.0028	0.0001	0.0001	0.00005
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0.0002	0.0015	0.00003	0.0008	0.52	0.0001	0.000005	0.0016	0.00007	0.0009	0.47	0.0004	0.33	0.000005	0.06	0.09	1.49	0.00000	0.00009	0.0002	0.0024	0.0003	0.0002	0.00005

HC 13

Sample = 11BGC-GTH-10 Int. 146.1- 156.67

Sample Wt. (kg) 1

Concentrations

Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
10-Aug-12	0	500	290	7.76	311	2344	15.1	155.06	1157	42	0.29	1300	0.0271	0.0198	0.0229	0.108	0.00005	0.000025	0.25	0.000043	406	0.0005	0.011	0.00262	0.009	0.00367	0.117	68.7	0.427	0.00008	0.0041	0.0779	0.01	68.9	0.0216	6.35
17-Aug-12	1	500	465	7.32	290	714	10.99	75.67	267	1.3	0.57	287	0.024	0.0598	0.0577	0.0423	0.00001	0.000005	0.06	0.000016	91	0.0003	0.000965	0.00115	0.008	0.00283	0.0435	14.6	0.111	0.00001	0.0064	0.00661	0.002	28.4	0.00573	5.39
24-Aug-12	2	500	430	7.95	276	646	8.46	86.56	222	0.67	0.55	286	0.0432	0.0405	0.047	0.0396	0.00001	0.000005	0.05	0.000005	91	0.0001	0.000801	0.00065	0.003	0.000009	0.036	14.2	0.115	0.00001	0.0038	0.00375	0.003	23.4	0.00454	5.13
31-Aug-12	3	500	465	7.83	385	364	5.8	89.66	69	0.5	0.52	145	0.0559	0.0333	0.0428	0.021	0.00001	0.000005	0.05	0.000011	45.9	0.0001	0.000399	--	0.004	0.000114	0.0242	7.45	0.0583	0.00001	0.0024	0.0016	0.002	16.7	0.00256	4.64
7-Sep-12	4	500	435	7.95	364	390	6.51	79.39	93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Sep-12	5	500	420	7.83	325	371	5.1	71.29	105	0.5	0.44	158	0.0681	0.0291	0.0375	0.02	0.00001	0.000005	0.05	0.000005	50.2	0.0001	0.000297	0.00091	0.005	0.000016	0.0204	7.83	0.0607	0.00001	0.0016	0.0009	0.002	14.2	0.00202	5.02
21-Sep-12	6	500	390	7.86	362	331	6.22	75.79	89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-Sep-12	7	500	485	7.83	379	301	4.55	98.3	62	0.5	0.48	121	0.0387	0.0304	0.0354	0.017	0.00001	0.000005	0.05	0.000011	37.4	0.0001	0.000296	0.00039	0.002	0.000128	0.0215	6.8	0.0559	0.00001	0.0011	0.00089	0.002	12.8	0.00147	4.58
4-Oct-12	8	500	425	7.7	368	197	5.08	71.31	33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Oct-12	9	500	405	7.86	330	311	7.75	77.29	90	0.5	0.39	122	0.0403	0.0229	0.0317	0.0194	0.00001	0.000005	0.05	0.000005	37.4	0.0001	0.000248	0.00189	0.009	0.000009	0.0178	6.96	0.0565	0.00001	0.0007	0.00092	0.002	11	0.00127	3.58
18-Oct-12	10	500	440	7.69	401	249	7.35	73.59	45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Oct-12	11	500	425	7.77	363	242	4.31	73.66	59	0.5	0.3	101	0.0552	0.0211	0.0315	0.012	0.00001	0.000005	0.05	0.000011	31.2	0.0001	0.000204	0.00031	0.007	0.000329	0.0152	5.61	0.0466	0.00001	0.0005	0.00045	0.002	9.6	0.00086	3.5
1-Nov-12	12	500	475	7.66	385	282	8.08	90.18	54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Nov-12	13	500	480	7.68	397	244	6.16	85.44	53	0.5	0.23	108	0.0419	0.0198	0.0302	0.0132	0.00001	0.000047	0.05	0.000009	33.6	0.0001	0.000193	0.00093	0.003	0.000119	0.0157	5.94	0.0491	0.00001	--	0.00049	0.002	10.2	0.00093	3.96
15-Nov-12	14	500	480	7.72	386	229	12.03	85.86	54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Nov-12	15	500	495	7.79	365	202	5.43	81.43	31	0.5	0.2	87.3	0.0292	0.0184	0.027	0.0108	0.00001	0.000005	0.05	0.000005	26.9	0.0001	0.000188	0.00046	0.007	0.000136	0.0142	4.9	0.0452	0.00001	0.0004	0.00055	0.002	8.26	0.00074	3.73
29-Nov-12	16	500	495	7.7	396	186	11.53	78.9	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Dec-12	17	500	465	7.74	371	67	5.12	21.54	6	0.5	0.02	19.8	0.291	0.00175	0.0141	0.00266	0.00001	0.000005	0.05	0.000005	6.73	0.0002	0.000132	0.00163	0.125	0.000192	0.0039	0.74	0.0083	0.00001	0.0001	0.00066	0.002	1.79	0.00016	0.91
13-Dec-12	18	500	475	7.75	341	258	8.07	59.43	65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Dec-12	19	500	480	7.66	374	71	3.6	25.84	14	0.5	0.022	31.7	0.196	0.00318	0.0137	0.00346	0.00001	0.000005	0.05	0.000015	10.2	0.0002	0.000118	0.00033	0.073	0.0001	0.0057	1.47	0.0165	0.00001	0.0001	0.00027	0.002	2.97	0.00026	1.14
27-Dec-12	20	500	475	7.78	270	137	7.78	35.83	43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Jan-13	21	500	455	7.96	320	264	6.53	59.28	65	4	0.054	120	0.0777	0.0114	0.0185	0.0127	0.00001	0.000005	0.05	0.000009	38.2	0.0001	0.000146	0.00029	0.01	0.00002	0.0117	5.97	0.0497	0.00001	0.0003	0.00024	0.002	7.4	0.00054	2.66
10-Jan-13	22	500	475	7.68	325	145	6.7	41.9	40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Jan-13	23	500	470	7.62	367	149	3.59	38.93	46	0.55	0.028	66.6	0.111	0.00581	0.012	0.00687	0.00001	0.000005	0.05	0.000005	21	0.0001	0.000107	0.00022	0.021	0.000027	0.0071	3.47	0.0319	0.00001	0.0003	0.00037	0.002	4.61	0.00039	1.56
24-Jan-13	24	500	475	7.72	307	93	5.9	25.75	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Jan-13	25	500	460	7.65	400	238	5.05	39.41	86	0.5	0.04	107	0.101	0.00739	0.0138	0.0108	0.00001	0.000005	0.05	0.000005	33.7	0.0001	0.000107	0.0003	0.005	0.000006	0.0101	5.52	0.0454	0.00001	0.0003	0.00025	0.002	6.15	0.00038	1.89
7-Feb-13	26	500	440	7.65	384	205	7.22	37.59	65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Feb-13	27	500	440	7.47	366	213	7.62	40.94	70	0.51	0.052	92.8	0.0984	0.00974	0.0143	0.0096	0.00001	0.000005	0.05	0.000016	29.1	0.0001	0.000111	0.00025	0.011	--	0.011	4.86	0.0396	0.00001	0.0004	0.00019	0.002	6.27	0.00036	1.98
21-Feb-13	28	500	455	7.65	401	113	6.38	29.42	37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Feb-13	29	500	450	7.54	400	183	7.44	34.68	57	0.66	0.024	71.8	0.107	0.00487	0.00932	0.00721	0.00001	0.000005	0.05	0.000005	22.7	0.0001	0.000077	0.00019	0.007	0.000008	0.0082	3.68	0.0323	0.00001	0.0002	0.00011	0.002	4.36	0.00037	1.32
7-Mar-13	30	500	455	7.66	386	246	9.47	45.55	82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Mar-13	31	500	460	7.47	388	157	7.14	30.55	50	0.5	0.03	64.1	0.084	0.0052	0.0079	0.00607	0.00001	0.000005	0.05	0.000005	20	0.0001	0.000077	0.00013	0.003	0.000005	0.0074	3.43	0.0339	0.00001	0.0002	0.00013	0.002	4.21	0.0005	1.16
21-Mar-13	32	500	445	7.66	391	201	9.01	36.45	66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Mar-13	33	500	450	7.51	417	197	5.97	36.27	60	0.5	0.046	89	0.0832	0.00768	0.00951	0.00866	0.00001	0.000005	0.05	0.000005	28.2	0.0001	0.00011	0.00023	0.003	0.000007	0.0104	4.53	0.0435	0.00001	0.0002	0.00016	0.002	5.33	0.0005	1.99
4-Apr-13	34	500	460	7.67	369	70	7.29	13.71	24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Apr-13	35	500	450	7.54	408	215	6.14	25.62	86	0.61	0.037	92.9	0.0784	0.00537	0.00734	0.00918	0.00001	0.000005	0.05	0.000008	29.3	0.0001	0.00013	0.00028	0.002	0.000006	0.009	4.8	0.0474	0.00001	0.0002	0.00018	0.002	4.68	0.00066	1.31
18-Apr-13	36	500	460	7.62	387	174	7.95	25.33	64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Apr-13	37	500	430	7.46	335	221	6.04	29.08	86	0.5	0.042	92.3	0.073	0.006	0.00807	0.00898	0.00001	0.000005	0.05	0.000005	29	0.0001	0.000142	0.00015	0.001	0.000005	0.0091	4.81	0.0436	0.00001	0.0002	0.00018	0.002	4.76	0.00065	1.43
2-May-13	38	500	450	7.6	398	192	7.54	30.64	65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9-May-13	39	500	450	7.53	411	205	6.77	34.94	88	0.67	0.048	91.9	0.0838	0.00736	0.00915	0.00841	0.00001	0.000005	0.05	0.000005	28.7	0.0001	0.000102	0.0002	0.007	0.000067	0.0102	4.91	0.0413	0.00001	0.0002	0.00018	0.002	5.15	0.00055	1.72
16-May-13	40	500	445	7.64	422	138	7.92	25.14	43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23-May-13	41	500	445	7.55	416	110	5.6	15.1	42	0.5	0.017	44.6	0.0818	0.00214	0.00416	0.00402	0.00001	0.000005	0.05	0.000005	14.1	0.0001	0.000062	0.00013	0.005	0.000011	0.0047	2.28	0.0251	0.00001	0.0001	0.00024	0.002	2.39	0.00021	0.64

Cell Terminated

HC 13
Sample = 11BGC-GTH-10 Int. 146.1- 156.67
Sample Wt. (kg) 1 **Loadings**

Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
0.00009	34.6	4.92	460	0.000101	0.001	0.0025	0.00967	0.001	0.0082	0.0005
0.000005	6.52	1.18	96	0.000022	0.00171	0.0005	0.00308	0.0008	0.0037	0.0001
0.000005	3.63	1.14	84	0.000016	0.0012	0.0005	0.00248	0.0008	0.0005	0.0001
0.000005	1.83	0.551	34	0.00001	0.00069	0.0005	0.00139	0.0008	--	0.0001
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0.000005	1.22	0.521	36	0.000007	0.00049	0.0005	0.00116	0.0011	0.0006	0.0001
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0.000005	0.91	0.445	21	0.000007	0.00257	0.0005	0.0011	0.001	0.0008	0.0001
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0.000005	0.71	0.443	29	0.000007	0.00048	0.0005	0.000923	0.0007	0.0007	0.0001
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0.000005	0.57	0.345	19	0.000011	0.00069	0.0005	0.00062	0.0008	0.0007	0.0001
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0.000005	0.65	0.353	18.4	0.000007	0.00088	0.0005	0.000759	0.001	--	0.0001
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0.000005	0.46	0.29	10.4	0.000005	0.00086	0.0005	0.000472	0.0007	0.0009	0.0001
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0.000005	0.12	0.0448	3	0.000004	0.00104	0.0048	0.000039	0.0006	0.0015	0.0001
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0.000005	0.17	0.0793	5.6	0.000004	0.0002	0.0031	0.000095	0.0005	0.0022	0.0001
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0.000005	0.52	0.331	26.8	0.000009	0.00034	0.0006	0.000576	0.0005	0.001	0.0001
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0.000005	0.33	0.185	15.7	0.000006	0.0002	0.0007	0.000424	0.0004	0.0004	0.0001
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0.000005	0.5	0.305	27.7	0.000007	0.0002	0.0005	0.000487	0.0005	0.0004	0.0001
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0.000005	0.44	0.257	23.9	0.00001	0.00024	0.0008	0.000442	0.0004	0.0013	0.0001
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0.000005	0.3	0.195	19	0.000005	0.00052	0.0005	0.000258	0.0005	0.0003	0.0001
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0.000005	0.3	0.171	14.5	0.000005	0.0002	0.0005	0.000257	0.0007	0.0001	0.0001
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0.000005	0.36	0.236	22.3	0.000005	0.0002	0.0005	0.00033	0.0002	0.0003	0.0001
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0.000005	0.33	0.249	27	0.00001	0.00022	0.0013	0.000246	0.0007	0.0007	0.0001
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0.000005	0.35	0.238	24.9	0.000007	0.0002	0.0005	0.000246	0.0002	0.0002	0.0001
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0.000014	0.38	0.229	24	0.000006	0.0002	0.0005	0.000276	0.0004	0.0002	0.0001
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0.000005	0.17	0.112	12.3	0.000005	0.0002	0.0005	0.000069	0.0004	0.0002	0.0001

Date	Cycle	Acidity (pH 8.3) mgCaCO3/kg/wk	Alkalinity mgCaCO3/kg/wk	Sulphate mg/kg/wk	Chloride mg/kg/wk	Fluoride mg/kg/wk	Al mg/kg/wk	Sb mg/kg/wk	As mg/kg/wk	Ba mg/kg/wk	Be mg/kg/wk	Bi mg/kg/wk	B mg/kg/wk	Cd mg/kg/wk	Ca mg/kg/wk	Cr mg/kg/wk	Co mg/kg/wk	Cu mg/kg/wk	Fe mg/kg/wk
10-Aug-12	0	4.38	44.97	335.53	12.18	0.08	0.0079	0.0057	0.0066	0.0313	0.000015	0.000007	0.0725	0.000012	117.74	0.00015	0.00319	0.0008	0.0025
17-Aug-12	1	5.11	35.19	124.16	0.60	0.27	0.0112	0.0278	0.0268	0.0197	0.000005	0.000002	0.0284	0.000007	42.32	0.00014	0.00045	0.0005	0.0038
24-Aug-12	2	3.64	37.22	95.46	0.29	0.24	0.0186	0.0174	0.0202	0.0170	0.000004	0.000002	0.0215	0.000002	39.13	0.00004	0.00034	0.0003	0.0013
31-Aug-12	3	2.70	41.69	32.09	0.23	0.24	0.0260	0.0155	0.0199	0.0098	0.000005	0.000002	0.0233	0.000005	21.34	0.00005	0.00019	--	0.0017
7-Sep-12	4	2.83	34.53	40.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Sep-12	5	2.14	29.94	44.10	0.21	0.18	0.0286	0.0122	0.0158	0.0084	0.000004	0.000002	0.0210	0.000002	21.08	0.00005	0.00012	0.0004	0.0020
21-Sep-12	6	2.43	29.56	34.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-Sep-12	7	2.21	47.68	30.07	0.24	0.23	0.0188	0.0147	0.0172	0.0082	0.000005	0.000002	0.0243	0.000005	18.14	0.00005	0.00014	0.0002	0.0008
4-Oct-12	8	2.16	30.31	14.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Oct-12	9	3.14	31.30	36.45	0.20	0.16	0.0163	0.0093	0.0128	0.0079	0.000004	0.000002	0.0203	0.000002	15.15	0.00004	0.00010	0.0008	0.0038
18-Oct-12	10	3.23	32.38	19.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Oct-12	11	1.83	31.31	25.08	0.21	0.13	0.0235	0.0090	0.0134	0.0051	0.000004	0.000002	0.0213	0.000005	13.26	0.00004	0.00009	0.0001	0.0030
1-Nov-12	12	3.84	42.84	25.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Nov-12	13	2.96	41.01	25.44	0.24	0.11	0.0201	0.0095	0.0145	0.0063	0.000005	0.000023	0.0240	0.000004	16.13	0.00005	0.00009	0.0004	0.0013
15-Nov-12	14	5.77	41.21	25.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Nov-12	15	2.69	40.31	15.35	0.25	0.10	0.0145	0.0091	0.0134	0.0053	0.000005	0.000002	0.0248	0.000002	13.32	0.00005	0.00009	0.0002	0.0036
29-Nov-12	16	5.71	39.06	14.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-Dec-12	17	2.38	10.02	2.79	0.23	0.01	0.1353	0.0008	0.0066	0.0012	0.000005	0.000002	0.0233	0.000002	3.13	0.00011	0.00006	0.0008	0.0581
13-Dec-12	18	3.83	28.23	30.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20-Dec-12	19	1.73	12.40	6.72	0.24	0.01	0.0941	0.0015	0.0066	0.0017	0.000005	0.000002	0.0240	0.000007	4.90	0.00008	0.00006	0.0002	0.0352
27-Dec-12	20	3.70	17.02	20.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Jan-13	21	2.97	26.97	29.58	1.82	0.02	0.0354	0.0052	0.0084	0.0058	0.000005	0.000002	0.0228	0.000004	17.38	0.00005	0.00007	0.0001	0.0044
10-Jan-13	22	3.18	19.90	19.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17-Jan-13	23	1.69	18.30	21.62	0.26	0.01	0.0522	0.0027	0.0056	0.0032	0.000005	0.000002	0.0235	0.000002	9.87	0.00005	0.00005	0.0001	0.0099
24-Jan-13	24	2.80	12.23	11.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31-Jan-13	25	2.32	18.13	39.56	0.23	0.02	0.0465	0.0034	0.0063	0.0050	0.000005	0.000002	0.0230	0.000002	15.50	0.00005	0.00005	0.0001	0.0025
7-Feb-13	26	3.18	16.54	28.60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Feb-13	27	3.35	18.01	30.80	0.22	0.02	0.0433	0.0043	0.0063	0.0042	0.000004	0.000002	0.0220	0.000007	12.80	0.00004	0.00005	0.0001	0.0049
21-Feb-13	28	2.90	13.39	16.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Feb-13	29	3.35	15.61	25.65	0.30	0.01	0.0482	0.0022	0.0042	0.0032	0.000005	0.000002	0.0225	0.000002	10.22	0.00005	0.00003	0.0001	0.0032
7-Mar-13	30	4.31	20.73	37.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14-Mar-13	31	3.28	14.05	23.00	0.23	0.01	0.0386	0.0024	0.0036	0.0028	0.000005	0.000002	0.0230	0.000002	9.20	0.00005	0.00004	0.0001	0.0014
21-Mar-13	32	4.01	16.22	29.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28-Mar-13	33	2.69	16.32	27.00	0.23	0.02	0.0374	0.0035	0.0043	0.0039	0.000005	0.000002	0.0225	0.000002	12.69	0.00005	0.00005	0.0001	0.0015
4-Apr-13	34	3.35	6.31	11.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Apr-13	35	2.76	11.53	38.70	0.27	0.02	0.0353	0.0024	0.0033	0.0041	0.000005	0.000002	0.0225	0.000004	13.19	0.00005	0.00006	0.0001	0.0007
18-Apr-13	36	3.66	11.65	29.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Apr-13	37	2.60	12.50	36.98	0.22	0.02	0.0314	0.0026	0.0035	0.0039	0.000004	0.000002	0.0215	0.000002	12.47	0.00004	0.00006	0.0001	0.0004
2-May-13	38	3.39	13.79	29.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9-May-13	39	3.05	15.72	39.60	0.30	0.02	0.0377	0.0033	0.0041	0.0038	0.000005	0.000002	0.0225	0.000002	12.92	0.00005	0.00005	0.0001	0.0033
16-May-13	40	3.52	11.19	19.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23-May-13	41	2.49	6.72	18.69	0.22	0.01	0.0364	0.0010	0.0019	0.0018	0.000004	0.000002	0.0223	0.000002	6.27	0.00004	0.00003	0.0001	0.0022

Cell Terminated

Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.001064	0.0339	19.92	0.1238	0.000024	0.0012	0.02259	0.0029	19.98	0.0063	1.84	0.000026	10.03	1.43	133.40	0.000029	0.0003	0.0007	0.00280	0.0003	0.0024	0.00015
0.001316	0.0202	6.79	0.0516	0.000005	0.0030	0.00307	0.0009	13.21	0.0027	2.51	0.000002	3.03	0.55	44.64	0.000010	0.0008	0.0002	0.00143	0.0004	0.0017	0.00005
0.000004	0.0155	6.11	0.0495	0.000004	0.0016	0.00161	0.0012	10.06	0.0020	2.21	0.000002	1.56	0.49	36.12	0.000007	0.0005	0.0002	0.00107	0.0004	0.0002	0.00004
0.000053	0.0113	3.46	0.0271	0.000005	0.0011	0.00074	0.0009	7.77	0.0012	2.16	0.000002	0.85	0.26	15.81	0.000005	0.0003	0.0002	0.00065	0.0004	--	0.00005
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0.000007	0.0086	3.29	0.0255	0.000004	0.0007	0.00038	0.0008	5.96	0.0008	2.11	0.000002	0.51	0.22	15.12	0.000003	0.0002	0.0002	0.00049	0.0004	0.0003	0.00004
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0.000062	0.0104	3.30	0.0271	0.000005	0.0005	0.00043	0.0010	6.21	0.0007	2.22	0.000002	0.44	0.22	10.19	0.000003	0.0012	0.0002	0.00053	0.0005	0.0004	0.00005
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0.000004	0.0072	2.82	0.0229	0.000004	0.0003	0.00037	0.0008	4.46	0.0005	1.45	0.000002	0.29	0.18	11.75	0.000003	0.0002	0.0002	0.00037	0.0003	0.0003	0.00004
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0.000140	0.0065	2.38	0.0198	0.000004	0.0002	0.00019	0.0009	4.08	0.0004	1.49	0.000002	0.24	0.15	8.08	0.000005	0.0003	0.0002	0.00026	0.0004	0.0003	0.00004
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0.000057	0.0075	2.85	0.0236	0.000005	--	0.00024	0.0010	4.90	0.0004	1.90	0.000002	0.31	0.17	8.83	0.000003	0.0004	0.0002	0.00036	0.0005	--	0.00005
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0.000067	0.0070	2.43	0.0224	0.000005	0.0002	0.00027	0.0010	4.09	0.0004	1.85	0.000002	0.23	0.14	5.15	0.000002	0.0004	0.0002	0.00023	0.0003	0.0005	0.00005
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0.000089	0.0018	0.34	0.0039	0.000005	0.0000	0.00031	0.0009	0.83	0.0001	0.42	0.000002	0.06	0.02	1.40	0.000002	0.0005	0.0022	0.00002	0.0003	0.0007	0.00005
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0.000048	0.0027	0.71	0.0079	0.000005	0.0000	0.00013	0.0010	1.43	0.0001	0.55	0.000002	0.08	0.04	2.69	0.000002	0.0001	0.0015	0.00005	0.0002	0.0011	0.00005
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0.000009	0.0053	2.72	0.0226	0.000005	0.0001	0.00011	0.0009	3.37	0.0002	1.21	0.000002	0.24	0.15	12.19	0.000004	0.0002	0.0003	0.00026	0.0002	0.0005	0.00005
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0.000013	0.0033	1.63	0.0150	0.000005	0.0001	0.00017	0.0009	2.17	0.0002	0.73	0.000002	0.16	0.09	7.38	0.000003	0.0001	0.0003	0.00020	0.0002	0.0002	0.00005
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0.000003	0.0046	2.54	0.0209	0.000005	0.0001	0.00011	0.0009	2.83	0.0002	0.87	0.000002	0.23	0.14	12.74	0.000003	0.0001	0.0002	0.00022	0.0002	0.0002	0.00005
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--	0.0048	2.14	0.0174	0.000004	0.0002	0.00008	0.0009	2.76	0.0002	0.87	0.000002	0.19	0.11	10.52	0.000004	0.0001	0.0004	0.00019	0.0002	0.0006	0.00004
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0.000004	0.0037	1.66	0.0145	0.000005	0.0001	0.00005	0.0009	1.96	0.0002	0.59	0.000002	0.14	0.09	8.55	0.000002	0.0002	0.0002	0.00012	0.0002	0.0001	0.00005
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0.000002	0.0034	1.58	0.0156	0.000005	0.0001	0.00006	0.0009	1.94	0.0002	0.53	0.000002	0.14	0.08	6.67	0.000002	0.0001	0.0002	0.00012	0.0003	0.0001	0.00005
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0.000003	0.0047	2.04	0.0196	0.000005	0.0001	0.00007	0.0009	2.40	0.0002	0.90	0.000002	0.16	0.11	10.04	0.000002	0.0001	0.0002	0.00015	0.0001	0.0001	0.00005
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0.000003	0.0040	2.16	0.0213	0.000005	0.0001	0.00008	0.0009	2.11	0.0003	0.59	0.000002	0.15	0.11	12.15	0.000005	0.0001	0.0006	0.00011	0.0003	0.0003	0.00005
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0.000002	0.0039	2.07	0.0187	0.000004	0.0001	0.00008	0.0009	2.05	0.0003	0.61	0.000002	0.15	0.10	10.71	0.000003	0.0001	0.0002	0.00011	0.0001	0.0001	0.00004
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0.000030	0.0046	2.21	0.0186	0.000005	0.0001	0.00008	0.0009	2.32	0.0002	0.77	0.000006	0.17	0.10	10.80	0.000003	0.0001	0.0002	0.00012	0.0002	0.0001	0.00005
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0.000005	0.0021	1.01	0.0112	0.000004	0.0000	0.00011	0.0009	1.06	0.0001	0.28	0.000002	0.07	0.05	5.47	0.000002	0.0001	0.0002	0.00003	0.0002	0.0001	0.00004

HC 14
Sample = M404101 to -09
Sample Wt. (kg) 1

							Concentrations																													
Date	Cycle	Volume mL		pH	ORP	Cond.	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K
		Input	Output		mV	umhos/cm	mgCaCO3/L	mgCaCO3/L	(mg/L)	(mg/L)	(mg/L)	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
25-Oct-12	0	500	385	8.2	358.39	165.41	2.15	52.22	19	3.6	0.47	20.5	0.218	0.0644	0.0534	0.00486	0.00001	0.000006	0.05	0.000005	6.3	0.0001	0.000027	0.0011	0.003	0.000021	0.003	1.17	0.0031	0.00001	0.0103	0.00099	0.004	4.06
1-Nov-12	1	500	495	7.96	356.44	173.91	4.79	39.36	47	1.9	0.48	27.4	0.171	0.223	0.0715	0.00751	0.00001	0.000009	0.05	0.000005	8.11	0.0001	0.000048	0.000742	0.004	0.000038	0.0038	1.73	0.006	0.00001	0.0282	0.00103	0.002	2.84
8-Nov-12	2	500	460	8.01	364.25	143.11	3.42	32.87	39	0.5	0.38	28.4	0.149	0.134	0.0524	0.0051	0.00001	0.000016	0.05	0.000005	8.4	0.0001	0.000034	0.000716	0.006	0.000085	0.0031	1.8	0.0077	0.00001	0.0168	0.00061	0.002	2.59
15-Nov-12	3	500	420	8.04	360.83	139.36	8.03	45.5	34	0.71	0.5	31.9	0.179	0.215	0.0653	0.00494	0.00001	0.000007	0.05	0.000005	9.79	0.0001	0.000049	0.00108	0.007	0.00007	0.0038	1.81	0.0055	3.9E-05	0.0129	0.00056	0.002	2.76
22-Nov-12	4	500	500	7.97	350.09	88.52	3.38	38.31	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Nov-12	5	500	505	8.07	368.65	88.62	8.78	37.86	11	0.5	0.27	29.1	0.112	0.148	0.0297	0.00407	0.00001	0.00001	0.05	0.000005	8.09	0.0001	0.000052	0.000321	0.006	0.000133	0.0027	2.16	0.0088	0.00001	0.00413	0.00038	0.002	2.11
6-Dec-12	6	500	435	8	347.16	94.16	5.81	31.27	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-Dec-12	7	500	485	8.01	318.35	83.03	6.37	37.78	12	0.5	0.31	29.2	0.139	0.179	0.031	0.00419	0.00001	0.000014	0.05	0.000005	7.98	0.0001	0.000041	0.000185	0.008	0.000143	0.0027	2.25	0.0073	0.00001	0.00375	0.00029	0.002	2.11
20-Dec-12	8	500	465	7.74	362.79	81.53	3.72	31.83	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-Dec-12	9	500	460	7.94	267.57	80.12	7.03	36.26	11	0.55	0.27	29.8	0.104	0.162	0.0194	0.00384	0.00001	0.000005	0.05	0.000006	8.22	0.0001	0.000038	0.000366	0.004	0.000094	0.0024	2.25	0.0093	0.00001	0.00321	0.00029	0.002	1.68
3-Jan-13	10	500	465	7.94	325.68	74.14	4.06	30.89	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Jan-13	11	500	460	8.09	303.22	73.98	5.32	31.05	11	0.72	0.24	29.1	0.121	0.136	0.0161	0.00399	0.00001	0.000013	0.05	0.000005	7.83	0.0001	0.000046	0.000227	0.007	0.000179	0.0023	2.33	0.0083	0.00001	0.00352	0.0004	0.002	1.56
17-Jan-13	12	500	485	7.75	351.56	76.77	2.95	33.88	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Jan-13	13	500	470	7.92	299.31	71.1	5.14	27.21	11	0.6	0.2	29.5	0.0724	0.114	0.00925	0.00353	0.00001	0.000008	0.05	0.000006	8.07	0.0001	0.000046	0.000146	0.003	0.000138	0.0018	2.27	0.0111	0.00001	0.00294	0.00026	0.002	1.29
31-Jan-13	14	500	455	8.02	369.62	70.37	3.1	24.89	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Feb-13	15	500	445	7.97	357.42	69.58	5.27	25.23	13	0.5	0.22	29.2	0.0677	0.0963	0.00877	0.00361	0.00001	0.000005	0.05	0.00001	7.83	0.0001	0.000047	0.000164	0.003	0.000072	0.0018	2.35	0.0107	0.00001	0.00271	0.00028	0.002	1.3
14-Feb-13	16	500	440	7.75	335.93	71.85	5.25	24.79	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Feb-13	17	500	465	7.77	379.88	67.56	5.73	26.97	12	0.57	0.22	29.6	0.073	0.103	0.00739	0.00357	0.00001	0.000012	0.05	0.000007	7.75	0.0001	0.000048	0.000261	0.005	0.000137	0.0016	2.48	0.0104	0.00001	0.00216	0.0003	0.002	1.35
28-Feb-13	18	500	455	7.87	371.58	66.25	5.52	26.62	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Mar-13	19	500	475	7.99	356.44	72.81	7.14	31.71	12	0.5	0.23	30.1	0.0758	0.113	0.00738	0.00362	0.00001	0.000011	0.05	0.000005	7.98	0.0001	0.000053	0.000053	0.004	0.000099	0.0019	2.48	0.0093	0.00001	0.00226	0.00025	0.002	1.37
14-Mar-13	20	500	475	7.9	356.93	70.24	5.1	27.37	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Mar-13	21	500	460	8.01	348.63	68.78	5.47	28.01	9	0.5	0.22	28.5	0.0809	0.0965	0.00718	0.00347	0.00001	0.000008	0.05	0.000006	7.48	0.0001	0.000046	0.000316	0.002	0.000089	0.0016	2.38	0.0096	0.00001	0.002	0.00021	0.002	1.17
28-Mar-13	22	500	490	7.95	374.51	74.8	3.54	28.94	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Apr-13	23	500	455	7.87	354	67.4	6.84	27.44	8	0.5	0.22	32.6	0.0741	0.0834	0.00568	0.0037	0.00001	0.000005	0.05	0.000005	8.92	0.0001	0.000048	0.000159	0.003	0.000065	0.0014	2.52	0.0109	0.00001	0.00182	0.00022	0.002	1.24
11-Apr-13	24	500	455	7.83	369.62	62.43	4.42	23.31	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Apr-13	25	500	450	7.99	362.3	62.61	5.66	24.07	10	0.63	0.18	26.1	0.0553	0.066	0.00423	0.00266	0.00001	0.000005	0.05	0.000005	6.68	0.0001	0.000034	0.000065	0.002	0.000055	0.0013	2.3	0.0102	0.00001	0.0015	0.00019	0.002	0.97
25-Apr-13	26	500	445	7.86	312.5	64.43	3.72	22.01	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-May-13	27	500	445	7.93	363.28	63.16	5.72	24.34	10	0.57	0.17	27.1	0.0503	0.0623	0.00356	0.0028	0.00001	0.000005	0.05	0.000006	7	0.0001	0.000037	0.000331	0.003	0.00007	0.0013	2.33	0.0113	0.00001	0.00132	0.00023	0.002	0.88
9-May-13	28	500	470	7.76	375.48	61.67	4.67	23.59	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-May-13	29	500	445	7.92	387.69	67.09	5.66	23.49	12	0.5	0.17	27.4	0.0522	0.0627	0.00305	0.00295	0.00001	0.000005	0.05	0.000005	6.79	0.0001	0.00004	0.000284	0.002	0.000049	0.0012	2.54	0.0094	0.00001	0.00151	0.00027	0.002	0.93
23-May-13	30	500	445	7.73	394.04	67.04	5.29	22.2	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30-May-13	31	500	420	8.01	395.5	71.81	9.58	29.37	15	0.5	0.2	32.5	0.0586	0.0657	0.00377	0.00319	0.00001	0.000005	0.05	0.000005	8.09	0.0001	0.000043	0.000267	0.002	0.000081	0.0014	2.99	0.0084	0.00001	0.00161	0.00049	0.002	1.14
6-Jun-13	32	500	475	7.71	417.48	65.26	5.69	24.17	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-Jun-13	33	500	455	7.61	397.94	81.5	9.88	28.83	16	0.5	0.19	33.6	0.0639	0.0651	0.00375	0.00366	0.00001	0.000007	0.05	0.000012	8.17	0.00013	0.000044	0.00019	0.004	0.000293	0.0015	3.21	0.0087	0.00001	0.0018	0.0009	0.002	1.04
20-Jun-13	34	500	460	7.61	373.53	70.17	6.17	23.54	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-Jun-13	35	500	435	7.74	438.47	73.36	4.06	23.77	13	0.63	0.17	33.4	0.0668	0.0581	0.00346	0.00313	0.00001	0.000007	0.05	0.000006	8.39	0.0001	0.000048	0.000326	0.004	0.000136	0.0014	3.03	0.0091	0.00001	0.00163	0.00035	0.002	1
4-Jul-13	36	500	445	7.64	439.94	67.36	3.91	24.14	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Jul-13	37	500	450	7.79	422.36	61.28	6.9	23.15	11	0.5	0.13	26.4	0.0548	0.0437	0.00239	0.00259	0.00001	0.000008	0.05	0.000006	6.45	0.0001	0.000041	0.000397	0.005	0.00013	0.0011	2.5	0.0086	0.00001	0.00126	0.00022	0.002	0.77
18-Jul-13	38	500	470	7.49	412.59	58.61	3.76	17.75	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Jul-13	39	500	430	7.76	436.03	67.42	7.13	25.53	12	0.9	0.17	31	0.0731	0.0535	0.00359	0.00336	0.00001	0.000008	0.05	0.000005	7.38	0.0001	0.00004	0.000369	0.006	0.000165	0.0013	3.06	0.0078	0.00001	0.00145	0.00024	0.002	1.01
1-Aug-13	40	500	440	8.04	314.45	68.62	10.14	33.25	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Aug-13	41	500	445	7.91	415.03	66.51	7.81	26.85	10	0.5	0.14	29.3	0.0703	0.0477	0.00314	0.00268	0.00001	0.000013	0.05	0.000007	7.3	0.00013	0.000042	0.000351	0.008	0.000203	0.0012	2.68	0.0104	0.00001	0.00125	0.00025	0.002	0.91
15-Aug-13	42	500	425	7.61	413.57	58.72	4.97	17.68	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Aug-13	43	500	455	7.85	383.3	62.94	7.43	24.96	9	0.5	0.14	26.4	0.0501	0.0439	0.00254	0.00237	0.00001	0.000005	0.05	0.000005	6.52	0.0001	0.000025	0.000143	0.002	0.000052	0.0012	2.46	0.0078	0.00001	0.00117	0.00016	0.002	0.79
29-Aug-13	44	500	455	7.66	401.36	57.65	2.91	20.02	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-Sep-13	45	500	465	7.81	383.3	58.51	4.28	22.44	11	0.5	0.15	27.4	0.0494	0.0443	0.00246	0.00251	0.00001	0.000005	0.05	0.000005	6.62	0.0001	0.000033	0.000212	0.006	0.000082	0.0012	2.64	0.008	0.00001	0.00122	0.0002	0.002	0.82

Cell Terminated

HC 14
Sample = M404101 to -09
Sample Wt. (kg) 1

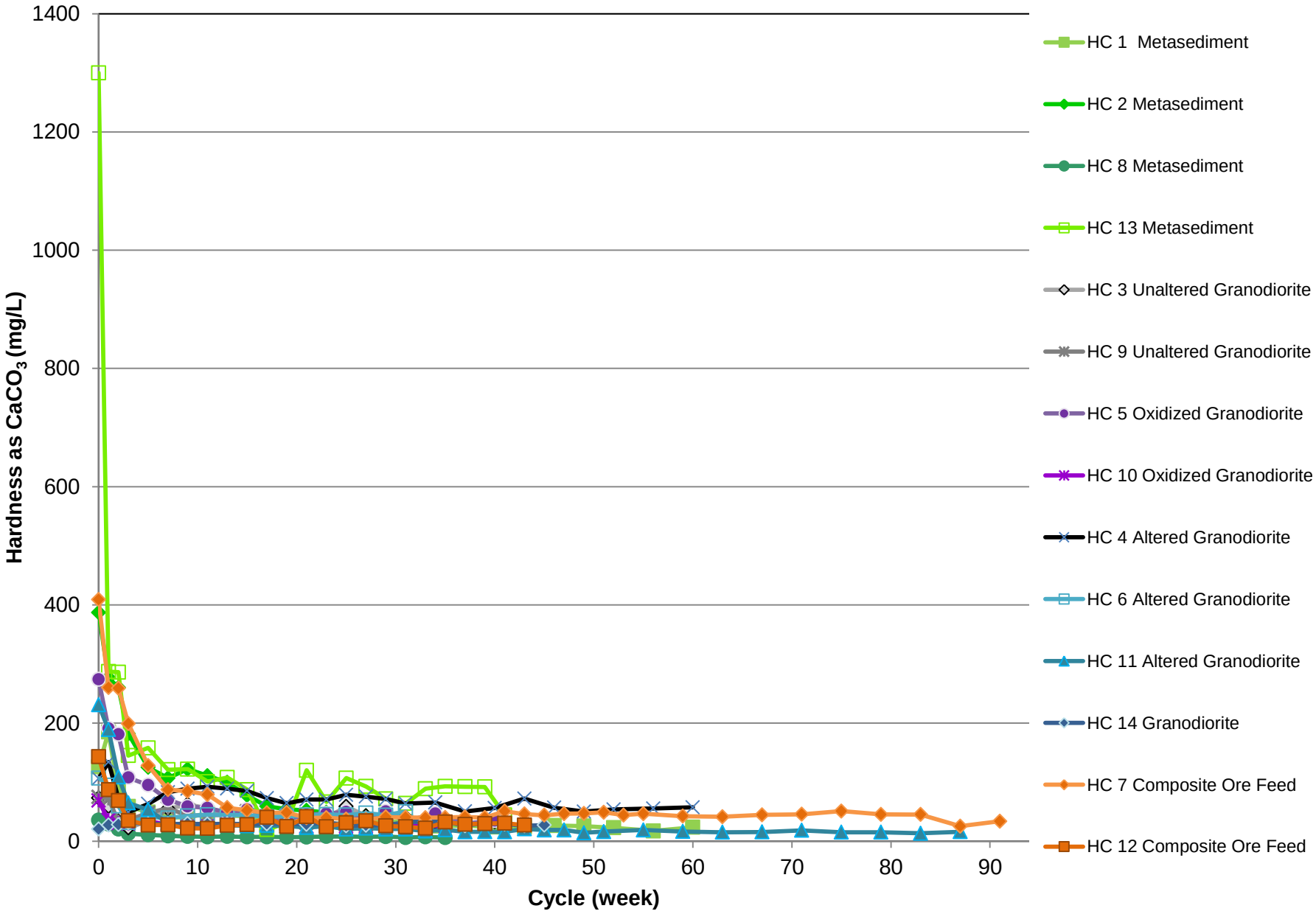
Loadings

Date	Cycle	Acidity (pH 8.3)	Alkalinity	Sulphate	Chloride	Fluoride	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
		mgCaCO3/kg/wk	mgCaCO3/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
25-Oct-12	0	0.83	20.10	7.32	1.39	0.18	0.0839	0.0248	0.0206	0.0019	0.000004	0.000002	0.0193	0.000002	2.43	0.00004	0.00001	0.0004	0.00304	1.17	0.000005	19.4	0.303	11	0.000011	0.0002	0.0005	0.0103	0.0005	0.0001	0.0001
1-Nov-12	1	2.37	19.48	23.27	0.94	0.24	0.0846	0.1104	0.0354	0.0037	0.000005	0.000004	0.0248	0.000002	4.01	0.00005	0.00002	0.0004	0.00489	1.43	0.000005	20.2	0.434	15.8	0.000011	0.0271	0.0005	0.037	0.0005	0.0003	0.0001
8-Nov-12	2	1.57	15.12	17.94	0.23	0.17	0.0685	0.0616	0.0241	0.0023	0.000005	0.000007	0.0230	0.000002	3.86	0.00005	0.00002	0.0003	0.00315	0.9	0.000005	15.8	0.436	13.8	0.000008	0.0209	0.0005	0.0302	0.0005	0.0004	0.0001
15-Nov-12	3	3.37	19.11	14.28	0.30	0.21	0.0752	0.0903	0.0274	0.0021	0.000004	0.000003	0.0210	0.000002	4.11	0.00004	0.00002	0.0005	0.0042	1.5	0.000005	15	0.408	9.6	0.000008	0.00153	0.0005	0.0371	0.0006	0.0021	0.0001
22-Nov-12	4	1.69	19.16	4.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29-Nov-12	5	4.43	19.12	5.56	0.25	0.14	0.0566	0.0747	0.0150	0.0021	0.000005	0.000005	0.0253	0.000003	4.09	0.00005	0.00003	0.0002	0.00219	0.88	0.000005	5.45	0.365	4.1	0.000005	0.00028	0.0007	0.0298	0.0002	0.0003	0.0001
6-Dec-12	6	2.53	13.60	6.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-Dec-12	7	3.09	18.32	5.82	0.24	0.15	0.0674	0.0868	0.0150	0.0020	0.000005	0.000007	0.0243	0.000002	3.87	0.00005	0.00002	0.0001	0.00266	0.94	0.000005	3.69	0.402	4.2	0.000008	0.00066	0.0005	0.0243	0.0003	0.0003	0.0001
20-Dec-12	8	1.73	14.80	3.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-Dec-12	9	3.23	16.68	5.06	0.25	0.12	0.0478	0.0745	0.0089	0.0018	0.000005	0.000002	0.0230	0.000003	3.78	0.00005	0.00002	0.0002	0.00257	0.73	0.000005	2.27	0.4	4.2	0.000006	0.0006	0.0005	0.0196	0.0002	0.0004	0.0001
3-Jan-13	10	1.89	14.36	3.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10-Jan-13	11	2.45	14.28	5.06	0.33	0.11	0.0557	0.0626	0.0074	0.0018	0.000005	0.000006	0.0230	0.000002	3.60	0.00005	0.00002	0.0001	0.00202	0.65	0.000005	1.65	0.406	3.9	0.000007	0.00111	0.0005	0.0181	0.0002	0.0011	0.0001
17-Jan-13	12	1.43	16.43	6.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24-Jan-13	13	2.42	12.79	5.17	0.28	0.09	0.0340	0.0536	0.0043	0.0017	0.000005	0.000004	0.0235	0.000003	3.79	0.00005	0.00002	0.0001	0.00187	0.53	0.000005	1.06	0.37	4.2	0.000004	0.00207	0.0005	0.0164	0.0002	0.0002	0.0001
31-Jan-13	14	1.41	11.32	6.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Feb-13	15	2.35	11.23	5.79	0.22	0.10	0.0301	0.0429	0.0039	0.0016	0.000004	0.000002	0.0223	0.000004	3.48	0.00004	0.00002	0.0001	0.00153	0.51	0.000005	0.91	0.377	5.6	0.000004	0.00243	0.0005	0.0142	0.0002	0.0003	0.0001
14-Feb-13	16	2.31	10.91	6.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Feb-13	17	2.66	12.54	5.58	0.27	0.10	0.0339	0.0479	0.0034	0.0017	0.000005	0.000006	0.0233	0.000003	3.60	0.00005	0.00002	0.0001	0.00158	0.53	0.000005	0.74	0.366	3.6	0.000004	0.0026	0.0005	0.0151	0.0003	0.0005	0.0001
28-Feb-13	18	2.51	12.11	5.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7-Mar-13	19	3.39	15.06	5.70	0.24	0.11	0.0360	0.0537	0.0035	0.0017	0.000005	0.000005	0.0238	0.000002	3.79	0.00005	0.00003	0.0000	0.00156	0.53	0.000005	0.57	0.379	3.8	0.000022	0.00343	0.0005	0.0156	0.0006	0.0003	0.0001
14-Mar-13	20	2.42	13.00	5.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21-Mar-13	21	2.52	12.88	4.14	0.23	0.10	0.0372	0.0444	0.0033	0.0016	0.000005	0.000004	0.0230	0.000003	3.44	0.00005	0.00002	0.0001	0.00141	0.47	0.000005	0.47	0.371	3.6	0.000011	0.00142	0.0005	0.0118	0.0003	0.0002	0.0001
28-Mar-13	22	1.73	14.18	3.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Apr-13	23	3.11	12.49	3.64	0.23	0.10	0.0337	0.0379	0.0026	0.0017	0.000005	0.000002	0.0228	0.000002	4.06	0.00005	0.00002	0.0001	0.00141	0.56	0.000005	0.39	0.37	4.8	0.000003	0.00022	0.0005	0.0118	0.0002	0.0002	0.0001
11-Apr-13	24	2.01	10.61	6.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18-Apr-13	25	2.55	10.83	4.50	0.28	0.08	0.0249	0.0297	0.0019	0.0012	0.000005	0.000002	0.0225	0.000002	3.01	0.00005	0.00002	0.0000	0.00092	0.37	0.000008	0.32	0.297	3.6	0.000017	0.0002	0.0005	0.0088	0.0002	0.0002	0.0001
25-Apr-13	26	1.66	9.79	5.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-May-13	27	2.55	10.83	4.45	0.25	0.08	0.0224	0.0277	0.0016	0.0012	0.000004	0.000002	0.0223	0.000003	3.12	0.00004	0.00002	0.0001	0.00077	0.37	0.000005	0.3	0.305	3.6	0.000002	0.00073	0.0005	0.00908	0.0007	0.0005	0.0001
9-May-13	28	2.19	11.09	4.70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16-May-13	29	2.52	10.45	5.34	0.22	0.08	0.0232	0.0279	0.0014	0.0013	0.000004	0.000002	0.0223	0.000002	3.02	0.00004	0.00002	0.0001	0.00079	0.35	0.000005	0.26	0.329	4.1	0.000005	0.0002	0.0005	0.00966	0.0002	0.0001	0.0001
23-May-13	30	2.35	9.88	6.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30-May-13	31	4.02	12.34	6.30	0.21	0.08	0.0246	0.0276	0.0016	0.0013	0.000004	0.000002	0.0210	0.000002	3.40	0.00004	0.00002	0.0001	0.00108	0.46	0.000008	0.28	0.352	4.8	0.000017	0.0002	0.0005	0.0103	0.0002	0.0001	0.0001
6-Jun-13	32	2.70	11.48	6.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13-Jun-13	33	4.50	13.12	7.28	0.23	0.09	0.0291	0.0296	0.0017	0.0017	0.000005	0.000003	0.0228	0.000005	3.72	0.00006	0.00002	0.0001	0.00116	0.46	0.000005	0.26	0.374	5.5	0.000005	0.00021	0.0005	0.0105	0.0003	0.001	0.0001
20-Jun-13	34	2.84	10.83	5.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27-Jun-13	35	1.77	10.34	5.66	0.27	0.07	0.0291	0.0253	0.0015	0.0014	0.000004	0.000003	0.0218	0.000003	3.65	0.00004	0.00002	0.0001	0.00147	0.47	0.000005	0.23	0.355	5.4	0.000003	0.0002	0.0005	0.00874	0.0002	0.0003	0.0001
4-Jul-13	36	1.74	10.74	5.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11-Jul-13	37	3.11	10.42	4.95	0.23	0.06	0.0247	0.0197	0.0011	0.0012	0.000005	0.000004	0.0225	0.000003	2.90	0.00005	0.00002	0.0002	0.00107	0.34	0.000005	0.19	0.268	4.5	0.000002	0.00024	0.0005	0.00663	0.0002	0.0002	0.0001
18-Jul-13	38	1.77	8.34	4.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25-Jul-13	39	3.07	10.98	5.16	0.39	0.07	0.0314	0.0230	0.0015	0.0014	0.000004	0.000003	0.0215	0.000002	3.17	0.00004	0.00002	0.0002	0.00131	0.44	0.000005	0.22	0.314	4.3	0.000005	0.00029	0.0005	0.00777	0.0003	0.0005	0.0001
1-Aug-13	40	4.46	14.63	5.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8-Aug-13	41	3.48	11.95	4.45	0.22	0.06	0.0313	0.0212	0.0014	0.0012	0.000004	0.000006	0.0223	0.000003	3.25	0.00006	0.00002	0.0002	0.00113	0.38	0.000005	0.18	0.29	4.4	0.000004	0.00022	0.0005	0.00639	0.0002	0.0004	0.0001
15-Aug-13	42	2.11	7.51	4.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22-Aug-13	43	3.38	11.36	4.10	0.23	0.06	0.0228	0.0200	0.0012	0.0011	0.000005	0.000002	0.0228	0.000002	2.97	0.00005	0.00001	0.0001	0.00117	0.33	0.000005	0.15	0.263	3.4	0.000004	0.0002	0.0005	0.00657	0.0002	0.0001	0.0001
29-Aug-13	44	1.32	9.11	4.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-Sep-13	45	1.99	10.43	5.12	0.23	0.07	0.0230	0.0206	0.0011	0.0012	0.000005	0.000002	0.0233	0.000002	3.08	0.00005	0.00002	0.0001	0.00121	0.35	0.000005	0.16	0.271	3.4	0.000004	0.0002	0.0005	0.00644	0.0002	0.0002	0.0001

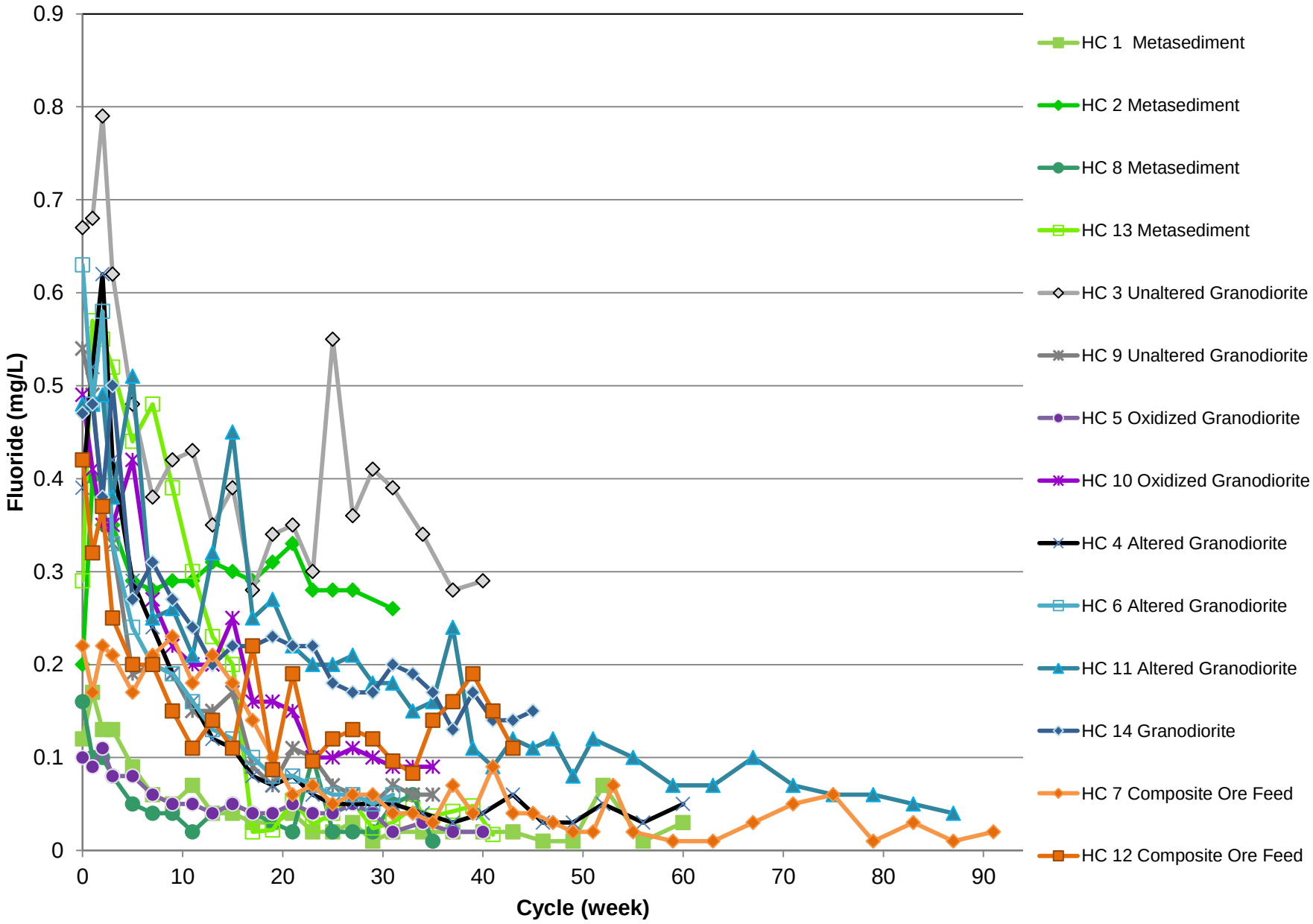
Cell Terminated

Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
0.0012	0.00001	0.0012	0.45	0.0012	0.000004	0.0040	0.00038	0.0015	1.56	0.0012	0.45	0.000002	7.47	0.12	4.24	0.000004	0.0001	0.0002	0.0040	0.0002	0.00004	0.00004
0.0020	0.00002	0.0019	0.86	0.0030	0.000005	0.0140	0.00051	0.0010	1.41	0.0024	0.71	0.000002	10.00	0.21	7.82	0.000005	0.0134	0.0002	0.0183	0.0002	0.00013	0.00005
0.0028	0.00004	0.0014	0.83	0.0036	0.000005	0.0077	0.00028	0.0009	1.19	0.0014	0.41	0.000002	7.27	0.20	6.35	0.000004	0.0096	0.0002	0.0139	0.0002	0.00020	0.00005
0.0028	0.00003	0.0016	0.76	0.0023	0.000016	0.0054	0.00023	0.0008	1.16	0.0018	0.63	0.000002	6.30	0.17	4.03	0.000003	0.0006	0.0002	0.0156	0.0003	0.00088	0.00004
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0.0032	0.00007	0.0013	1.09	0.0044	0.000005	0.0021	0.00019	0.0010	1.07	0.0011	0.44	0.000003	2.75	0.18	2.07	0.000003	0.0001	0.0004	0.0150	0.0001	0.00015	0.00005
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0.0037	0.00007	0.0013	1.09	0.0035	0.000005	0.0018	0.00014	0.0010	1.02	0.0013	0.45	0.000002	1.79	0.19	2.04	0.000004	0.0003	0.0002	0.0118	0.0002	0.00013	0.00005
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0.0019	0.00004	0.0011	1.04	0.0043	0.000005	0.0015	0.00013	0.0009	0.77	0.0012	0.34	0.000002	1.04	0.18	1.93	0.000003	0.0003	0.0002	0.0090	0.0001	0.00017	0.00005
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0.0033	0.00008	0.0010	1.07	0.0038	0.000005	0.0016	0.00018	0.0009	0.72	0.0009	0.30	0.000002	0.76	0.19	1.79	0.000003	0.0005	0.0002	0.0083	0.0001	0.00052	0.00005
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0.0015	0.00006	0.0008	1.07	0.0052	0.000005	0.0014	0.00012	0.0009	0.61	0.0009	0.25	0.000002	0.50	0.17	1.97	0.000002	0.0010	0.0002	0.0077	0.0001	0.00008	0.00005
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0.0012	0.00003	0.0008	1.05	0.0048	0.000004	0.0012	0.00012	0.0009	0.58	0.0007	0.23	0.000002	0.41	0.17	2.49	0.000002	0.0011	0.0002	0.0063	0.0001	0.00012	0.00004
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0.0022	0.00006	0.0008	1.15	0.0048	0.000005	0.0010	0.00014	0.0009	0.63	0.0007	0.25	0.000002	0.34	0.17	1.67	0.000002	0.0012	0.0002	0.0070	0.0001	0.00022	0.00005
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0.0020	0.00005	0.0009	1.18	0.0044	0.000005	0.0011	0.00012	0.0010	0.65	0.0007	0.25	0.000002	0.27	0.18	1.81	0.000010	0.0016	0.0002	0.0074	0.0003	0.00012	0.00005
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0.0011	0.00004	0.0007	1.09	0.0044	0.000005	0.0009	0.00009	0.0009	0.54	0.0006	0.21	0.000002	0.22	0.17	1.66	0.000005	0.0007	0.0002	0.0054	0.0001	0.00010	0.00005
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0.0012	0.00003	0.0007	1.15	0.0050	0.000005	0.0008	0.00010	0.0009	0.56	0.0006	0.26	0.000002	0.18	0.17	2.18	0.000001	0.0001	0.0002	0.0054	0.0001	0.00007	0.00005
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0.0009	0.00002	0.0006	1.04	0.0046	0.000005	0.0007	0.00009	0.0009	0.44	0.0004	0.17	0.000004	0.14	0.13	1.62	0.000008	0.0001	0.0002	0.0040	0.0001	0.00010	0.00005
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0.0011	0.00003	0.0006	1.04	0.0050	0.000004	0.0006	0.00010	0.0009	0.39	0.0003	0.16	0.000002	0.13	0.14	1.60	0.000001	0.0003	0.0002	0.0040	0.0003	0.00021	0.00004
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0.0008	0.00002	0.0005	1.13	0.0042	0.000004	0.0007	0.00012	0.0009	0.41	0.0004	0.15	0.000002	0.12	0.15	1.82	0.000002	0.0001	0.0002	0.0043	0.0001	0.00004	0.00004
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0.0010	0.00003	0.0006	1.26	0.0035	0.000004	0.0007	0.00021	0.0008	0.48	0.0005	0.19	0.000003	0.12	0.15	2.02	0.000007	0.0001	0.0002	0.0043	0.0001	0.00006	0.00004
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0.0017	0.00013	0.0007	1.46	0.0039	0.000005	0.0008	0.00041	0.0009	0.47	0.0005	0.21	0.000002	0.12	0.17	2.50	0.000002	0.0001	0.0002	0.0048	0.0001	0.00044	0.00005
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0.0017	0.00006	0.0006	1.32	0.0040	0.000004	0.0007	0.00015	0.0009	0.43	0.0006	0.20	0.000002	0.10	0.15	2.35	0.000001	0.0001	0.0002	0.0038	0.0001	0.00013	0.00004
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0.0020	0.00006	0.0005	1.13	0.0039	0.000005	0.0006	0.00010	0.0009	0.34	0.0005	0.15	0.000002	0.08	0.12	2.03	0.000001	0.0001	0.0002	0.0030	0.0001	0.00010	0.00005
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0.0025	0.00007	0.0006	1.32	0.0034	0.000004	0.0006	0.00010	0.0009	0.43	0.0006	0.19	0.000002	0.09	0.14	1.85	0.000002	0.0001	0.0002	0.0033	0.0001	0.00020	0.00004
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0.0037	0.00009	0.0005	1.19	0.0046	0.000004	0.0006	0.00011	0.0009	0.40	0.0005	0.17	0.000002	0.08	0.13	1.96	0.000002	0.0001	0.0002	0.0028	0.0001	0.00019	0.00004
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0.0009	0.00002	0.0005	1.12	0.0035	0.000005	0.0005	0.00007	0.0009	0.36	0.0005	0.15	0.000002	0.07	0.12	1.55	0.000002	0.0001	0.0002	0.0030	0.0001	0.00005	0.00005
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0.0027	0.00004	0.0006	1.23	0.0037	0.000005	0.0006	0.00009	0.0009	0.38	0.0006	0.16	0.000002	0.07	0.13	1.58	0.000002	0.0001	0.0002	0.0030	0.0001	0.00010	0.00005

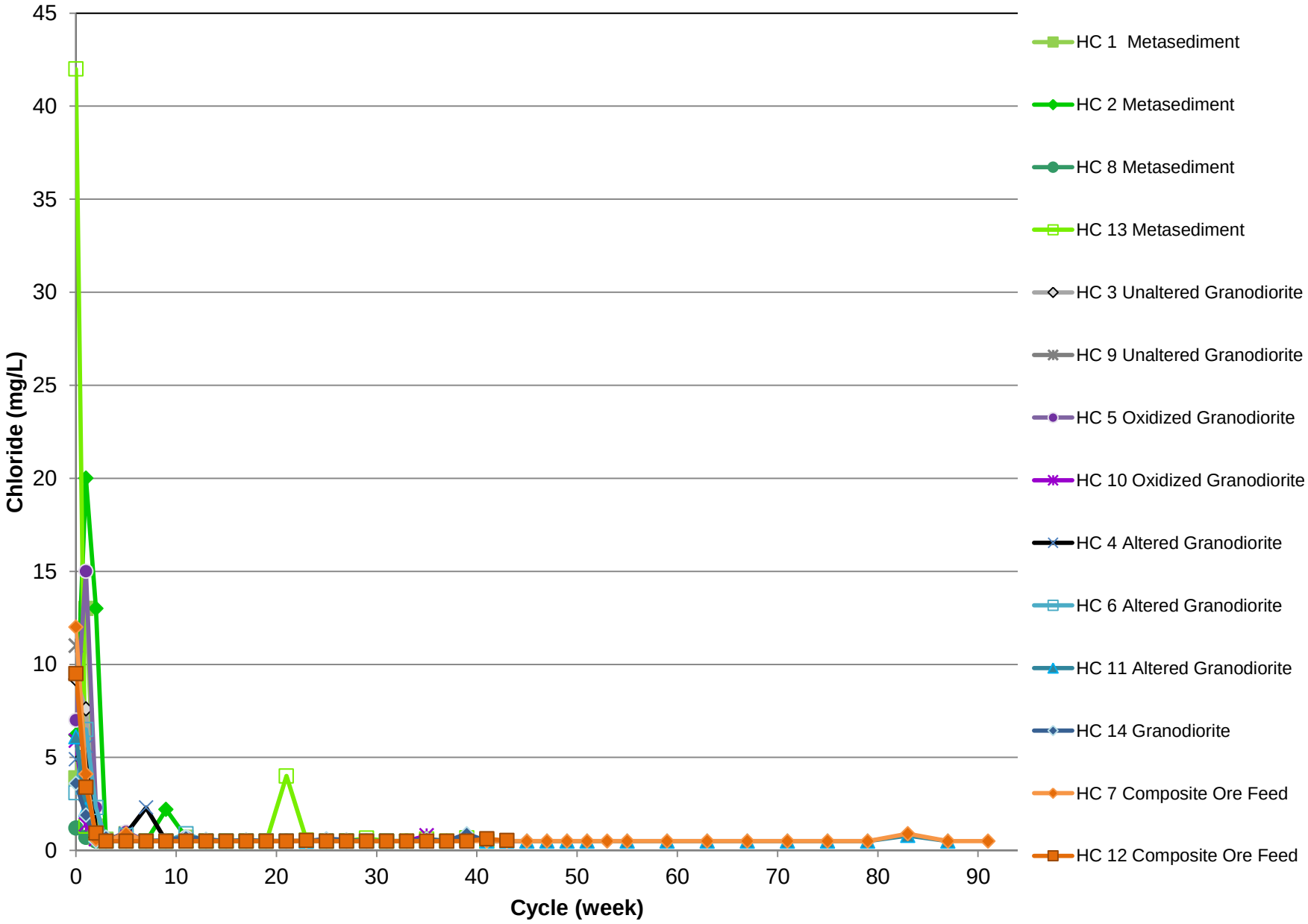
Appendix H3: Humidity Cell Test Concentration Charts



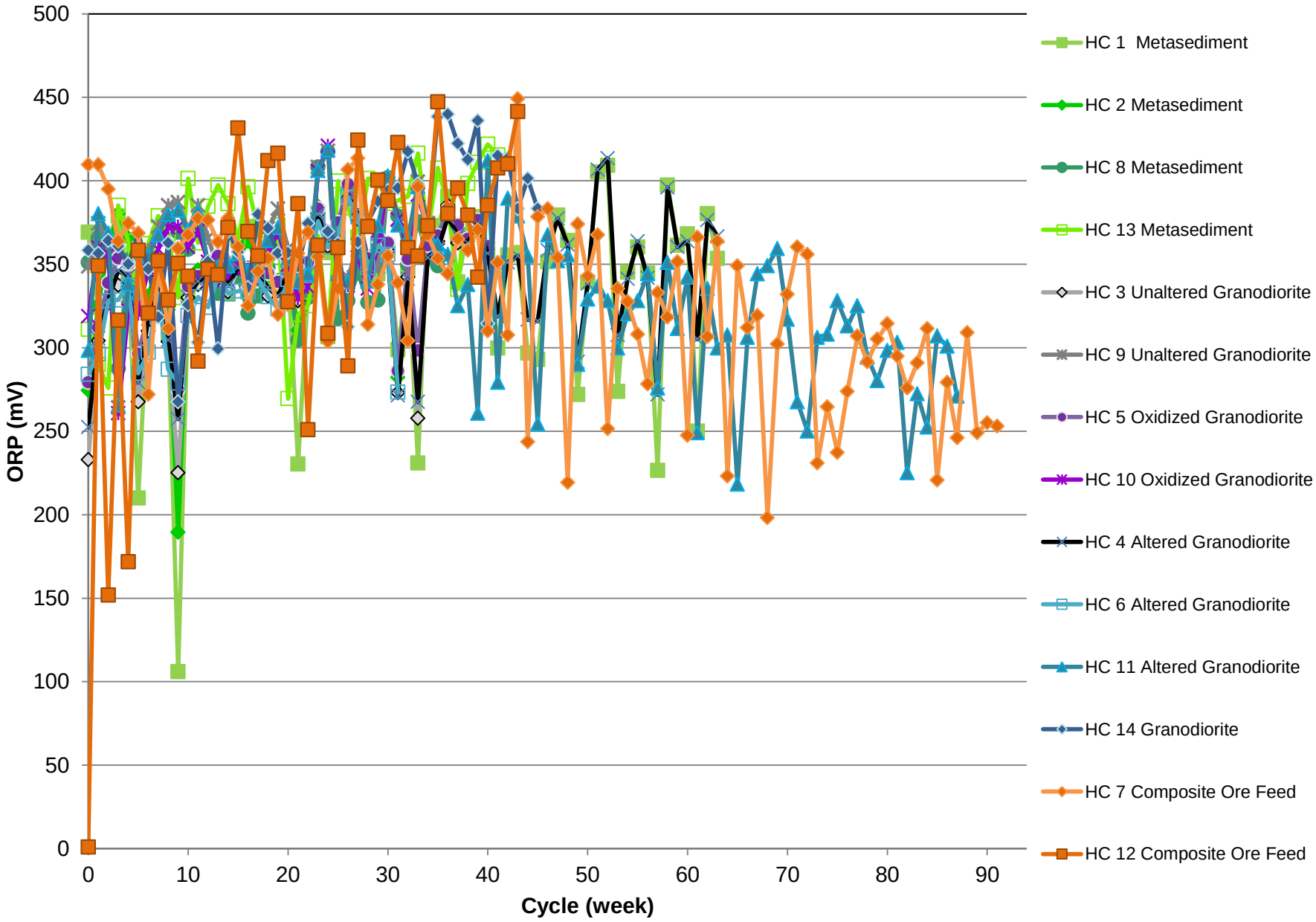
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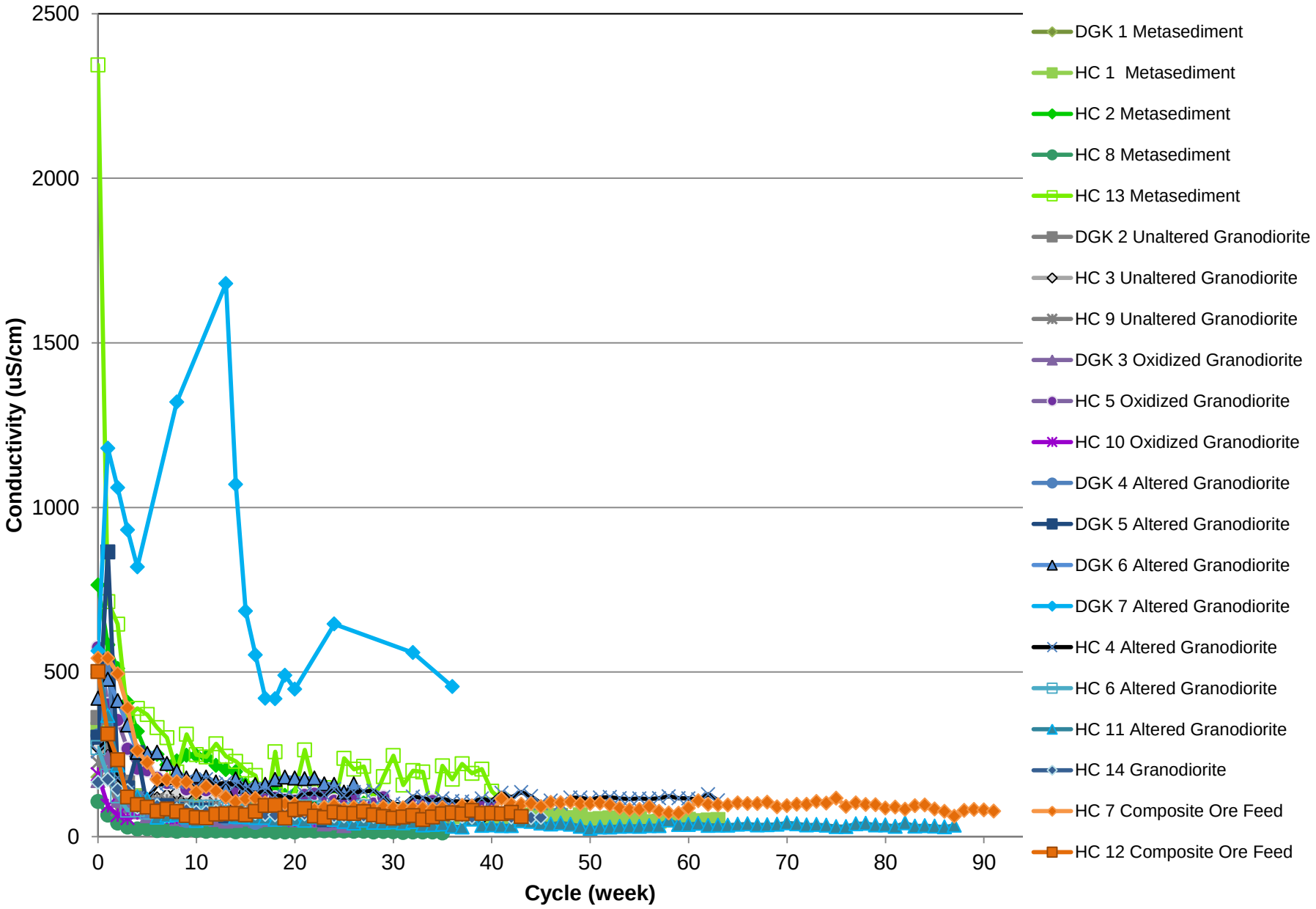
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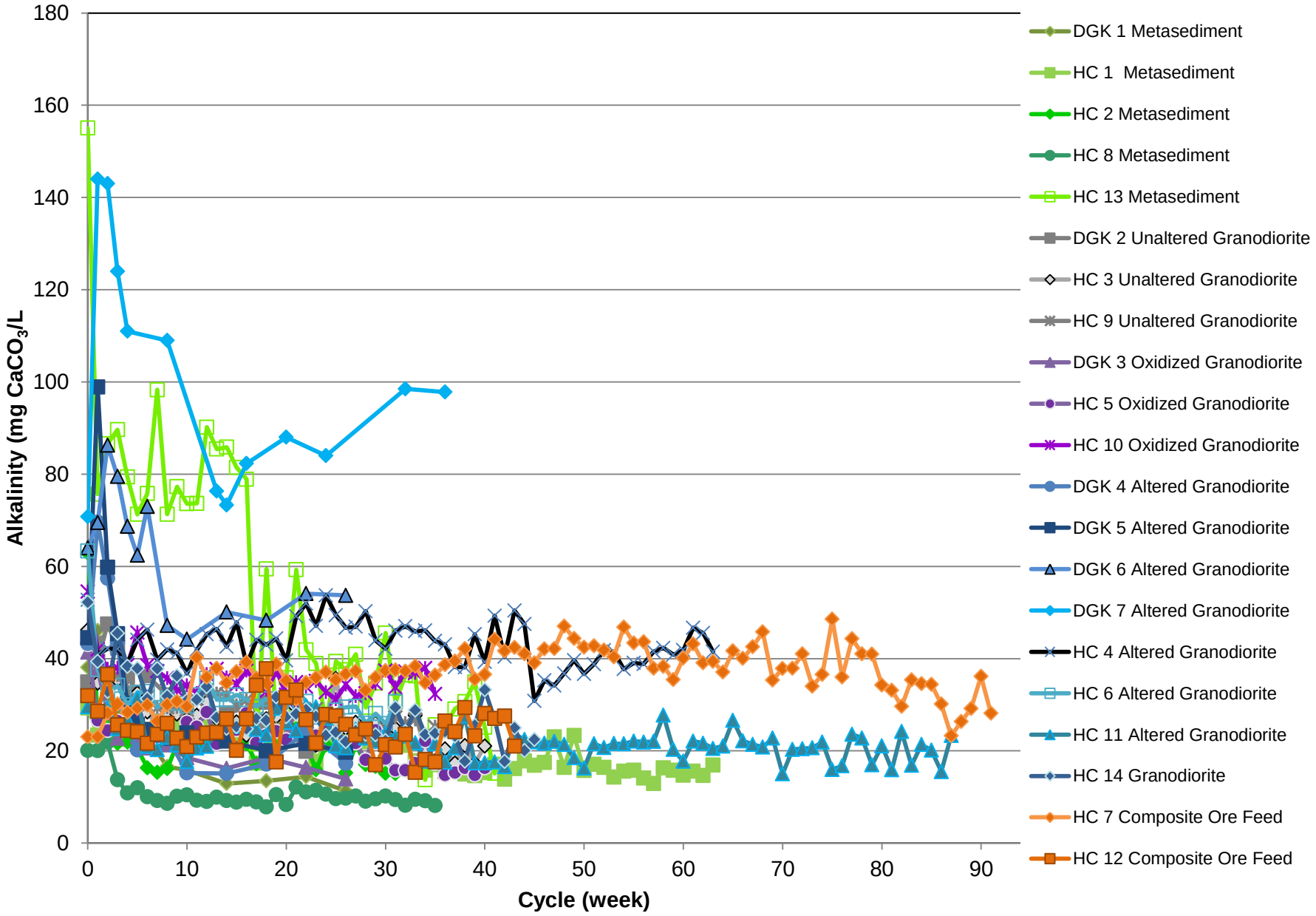
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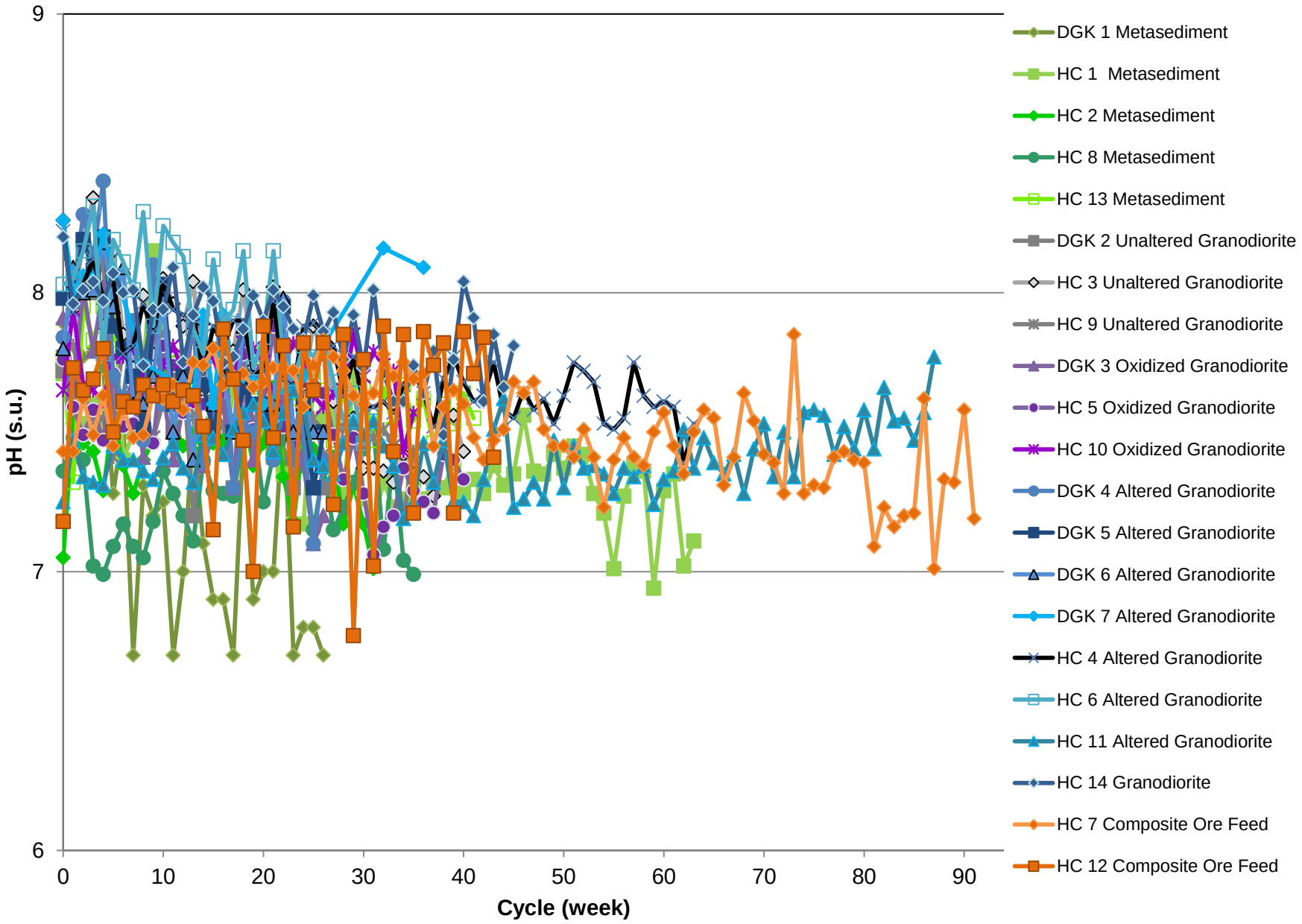
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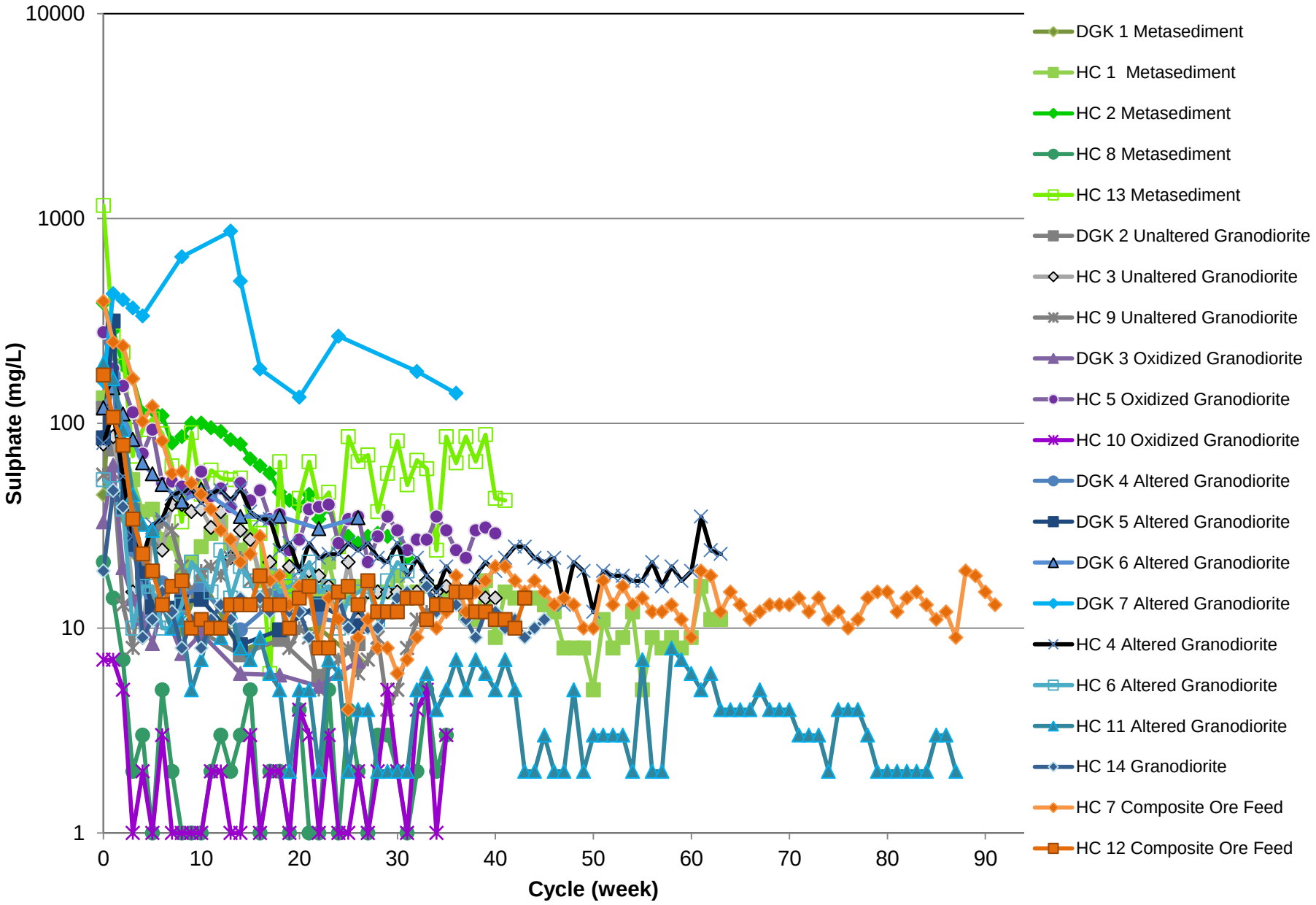
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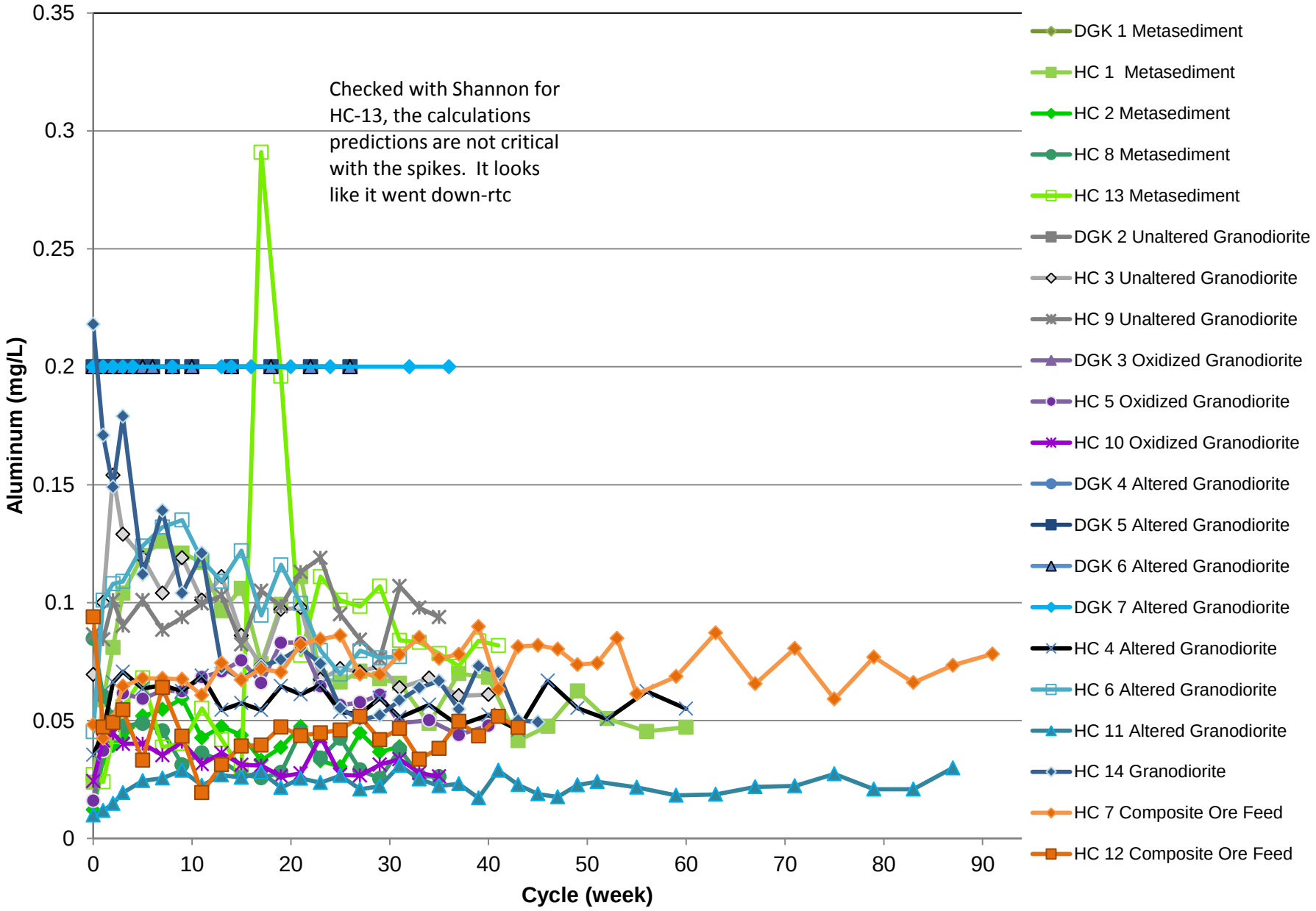
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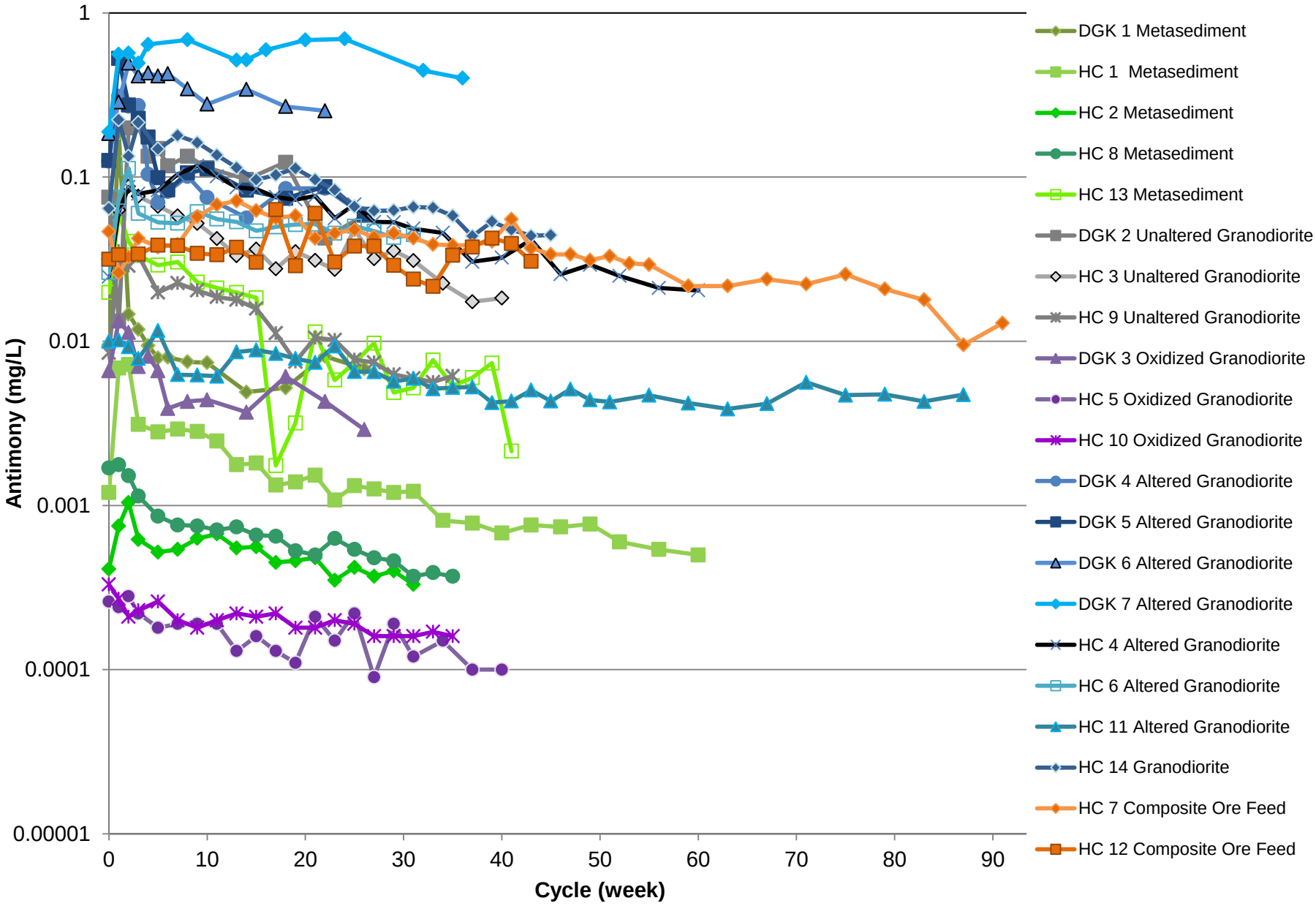
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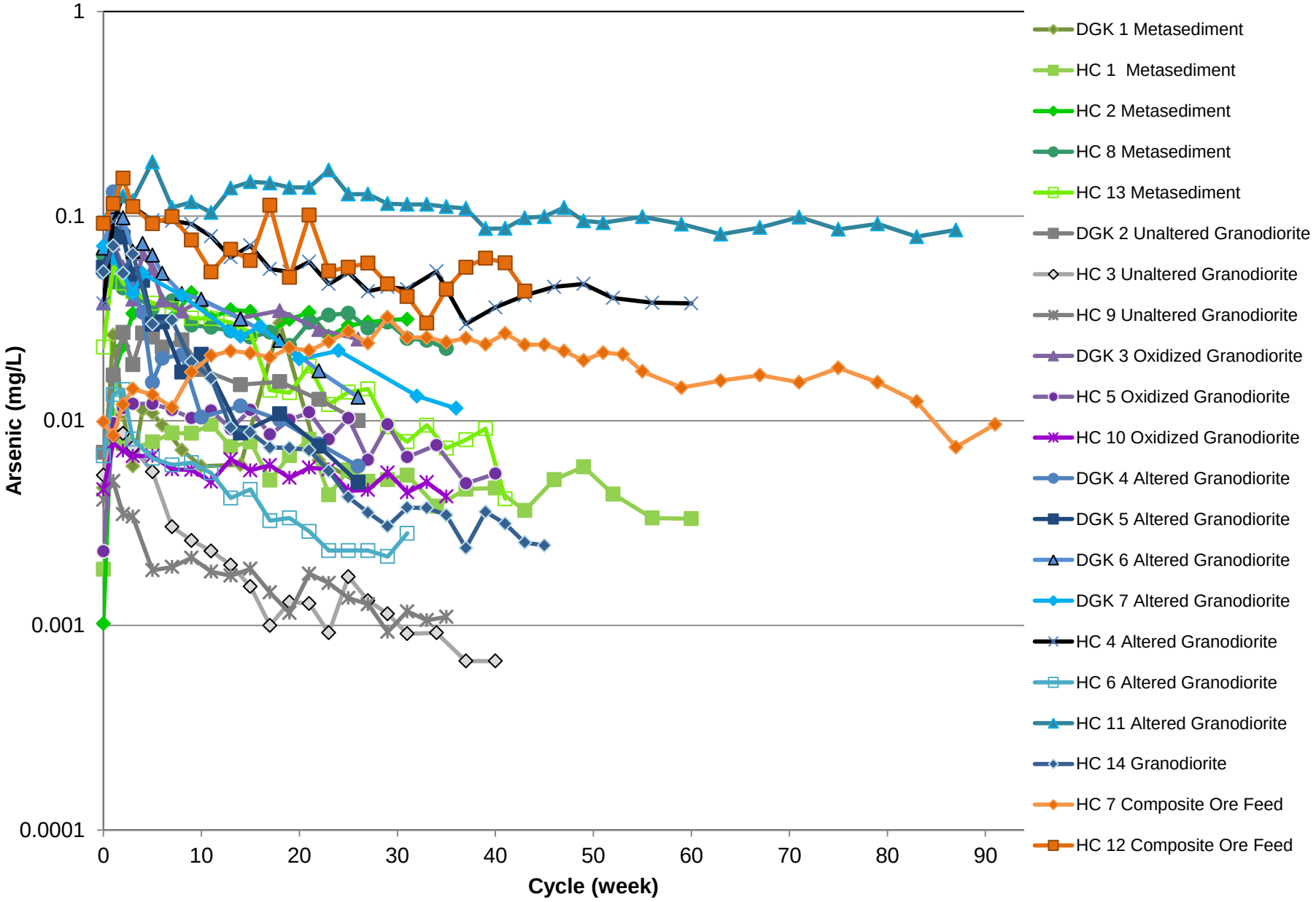
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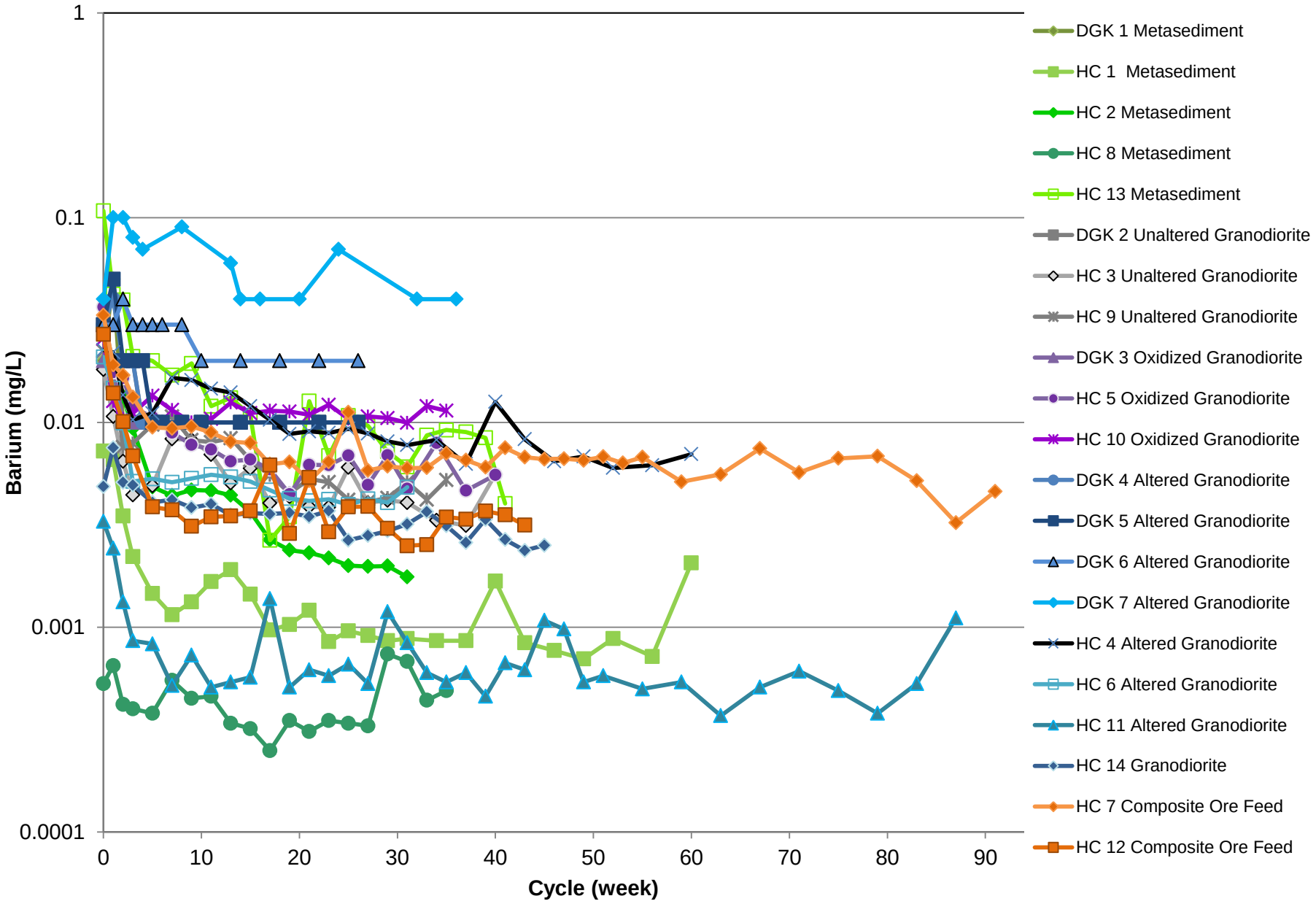
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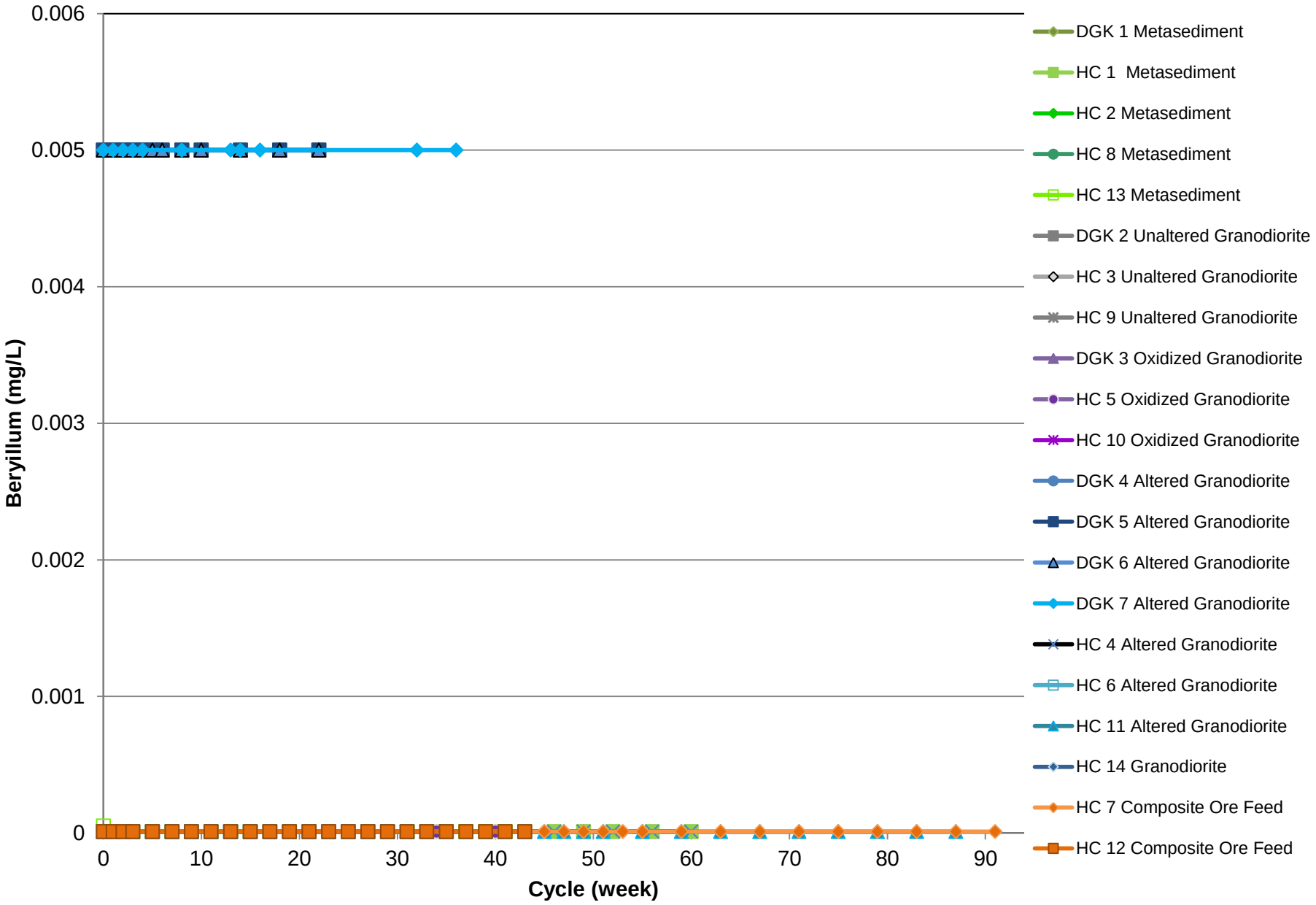
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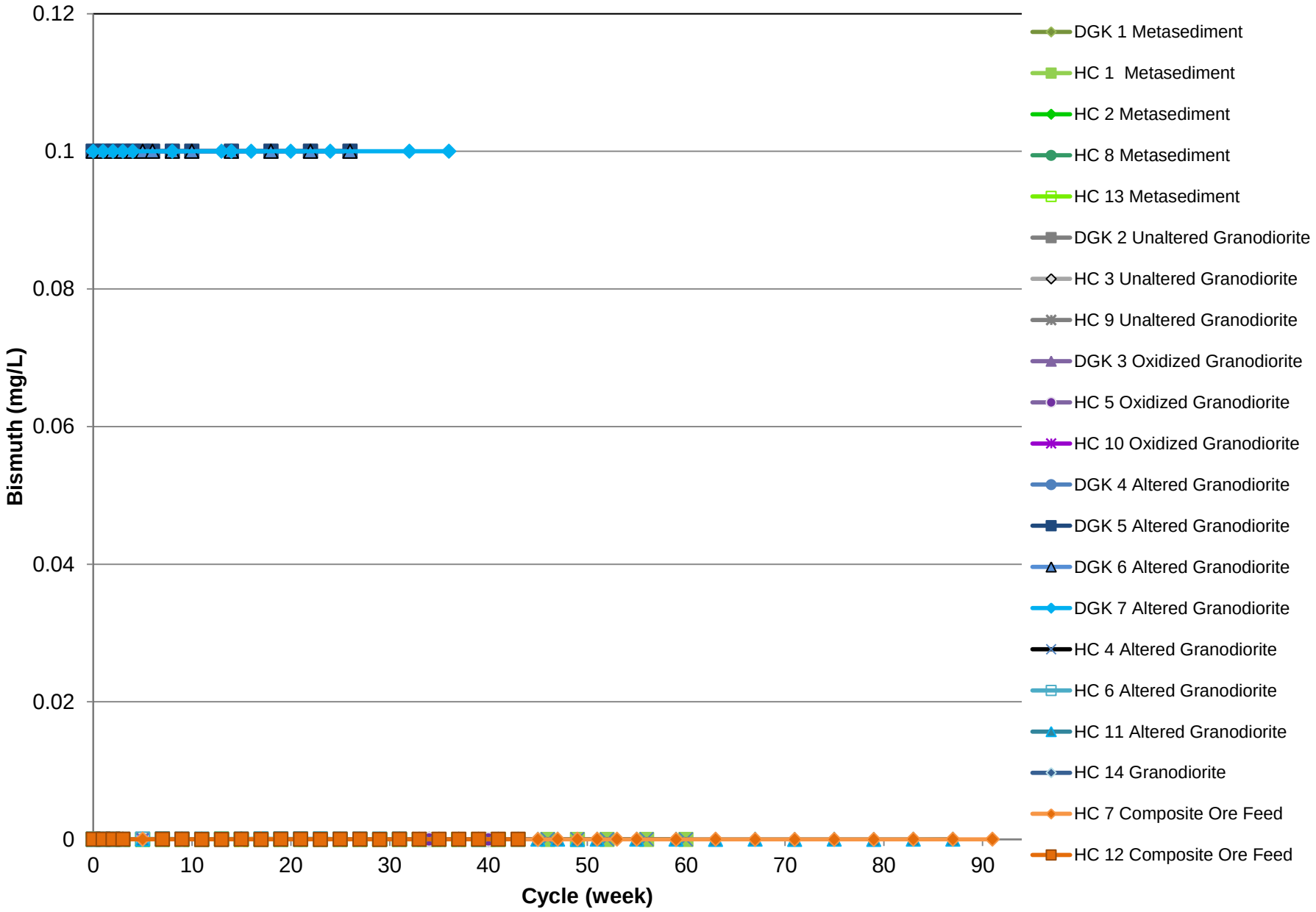
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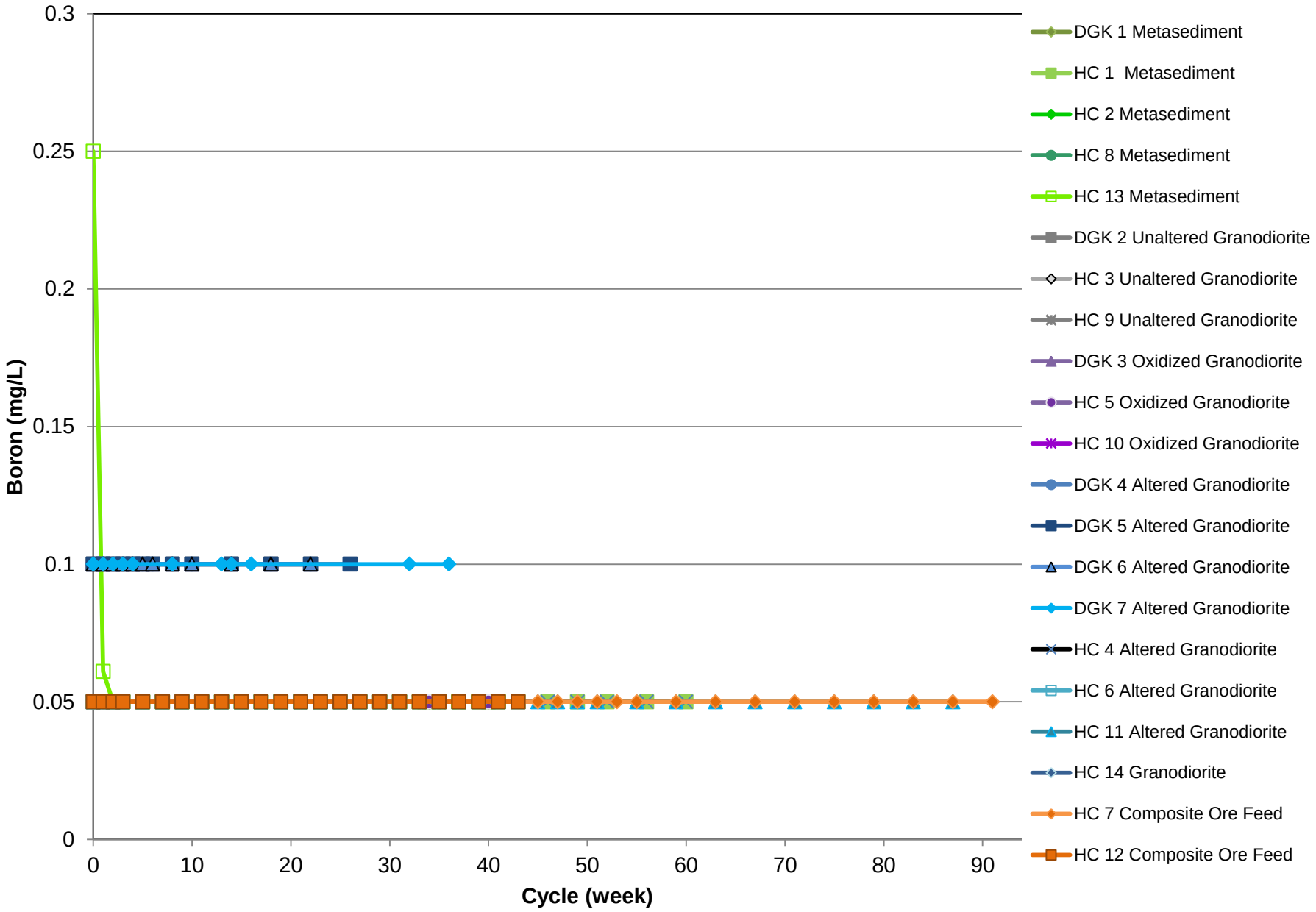
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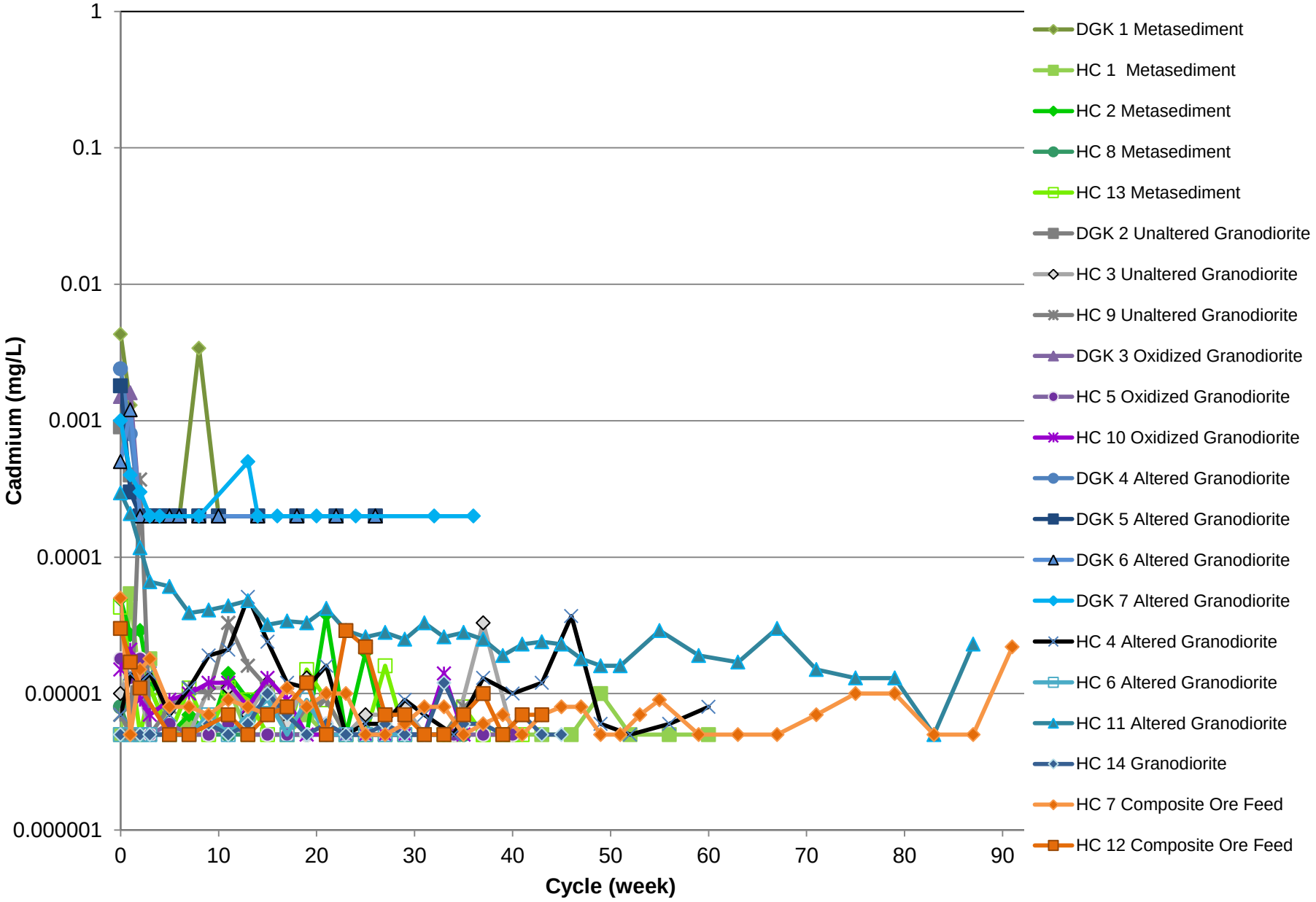
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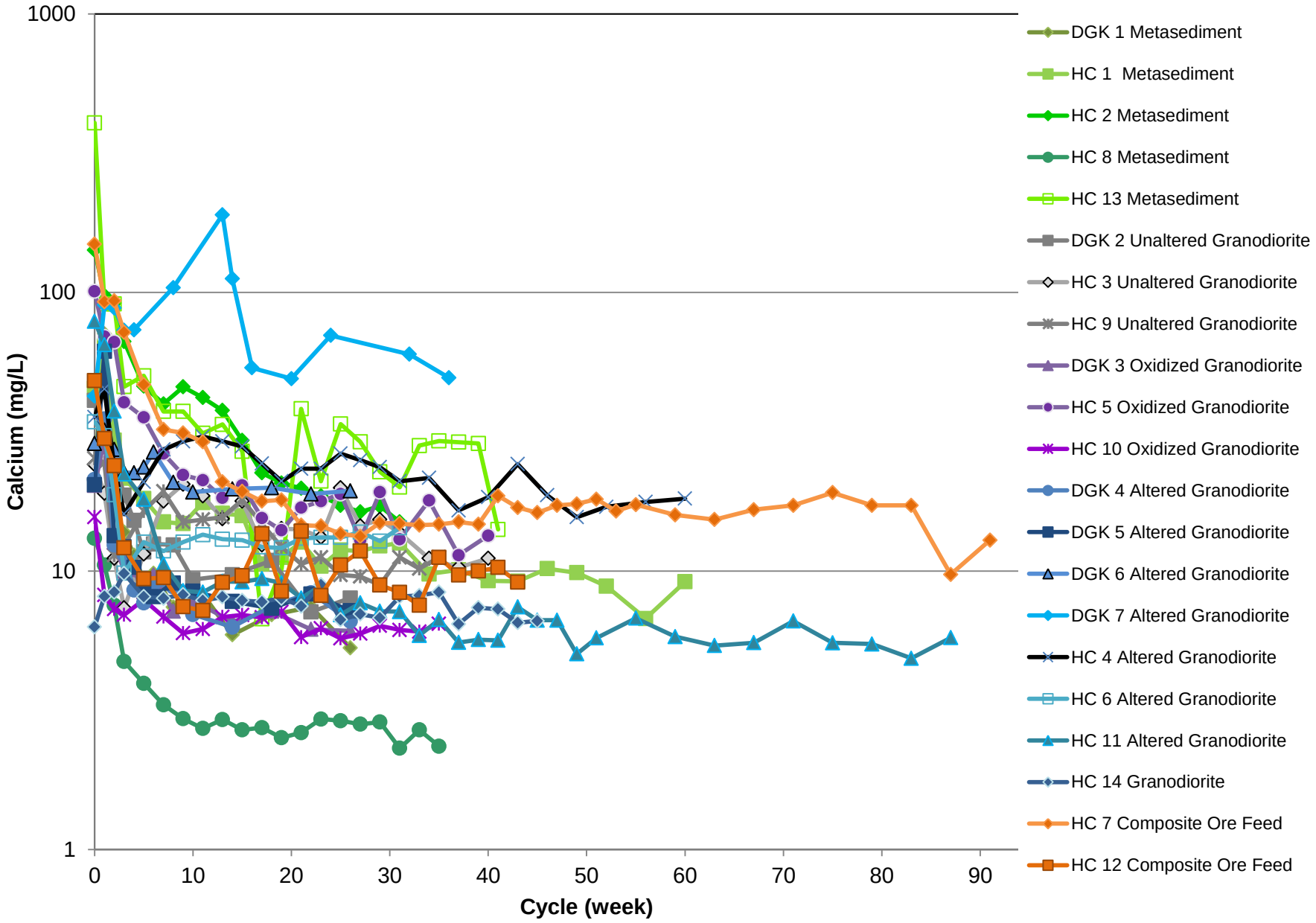
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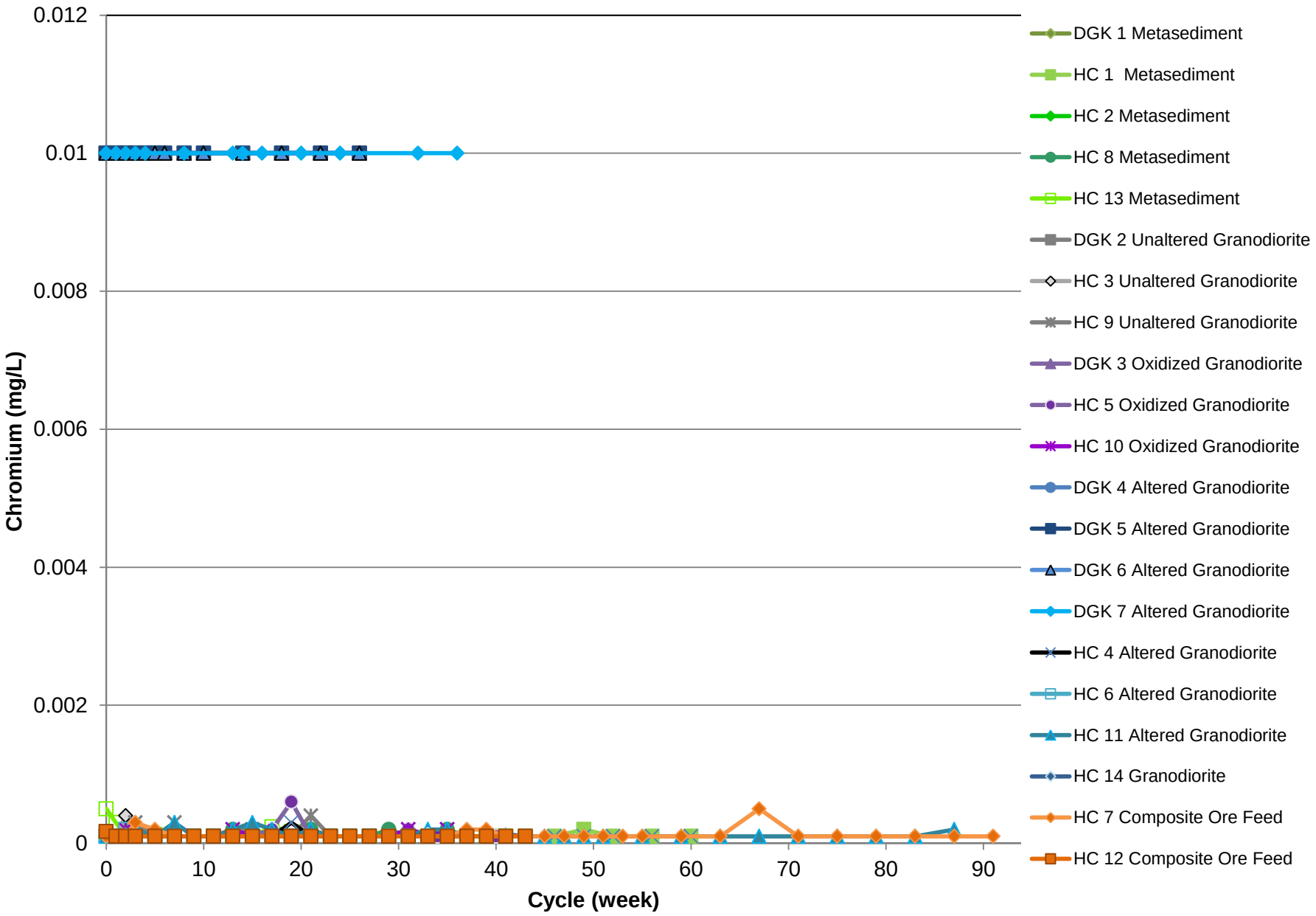
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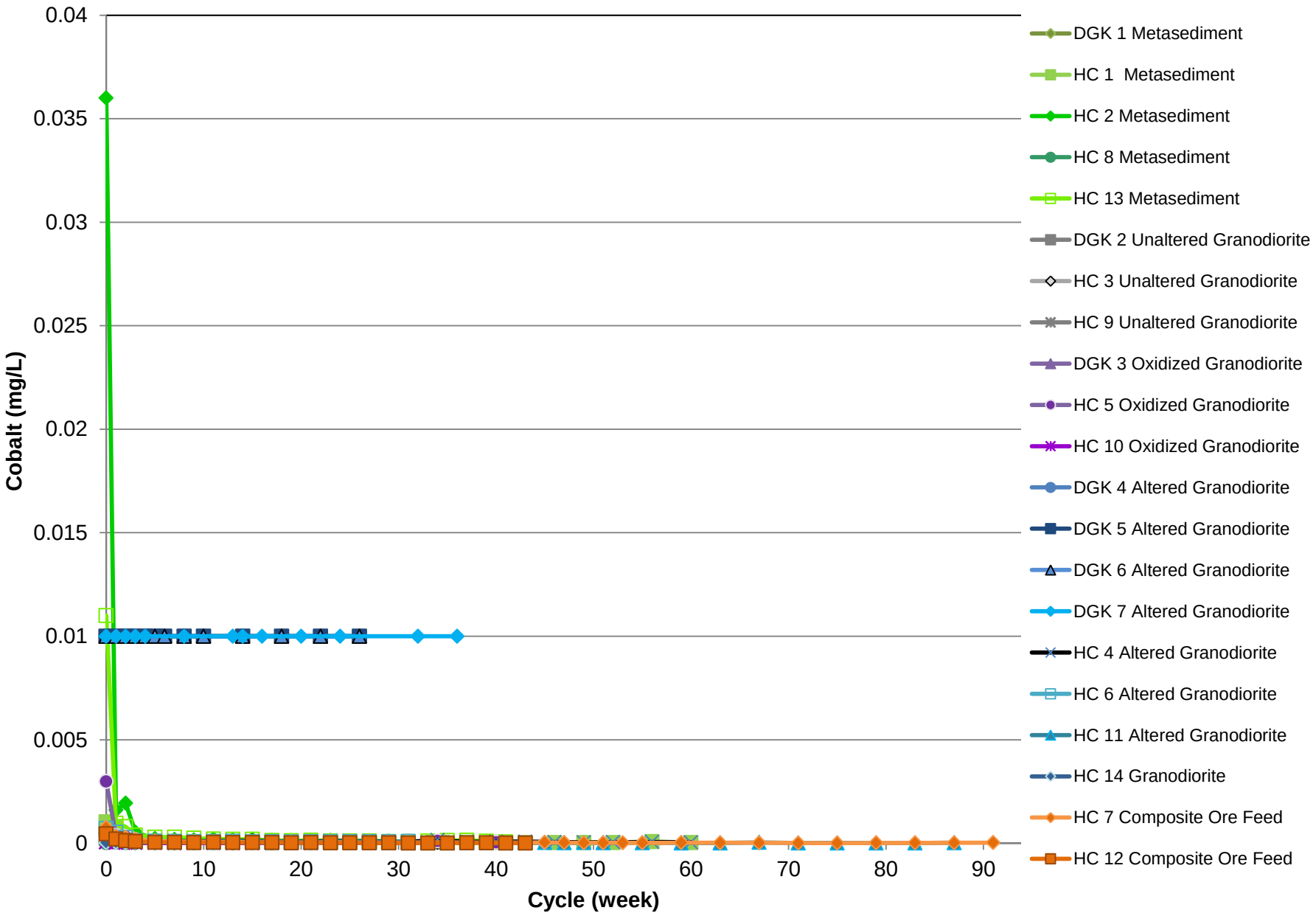
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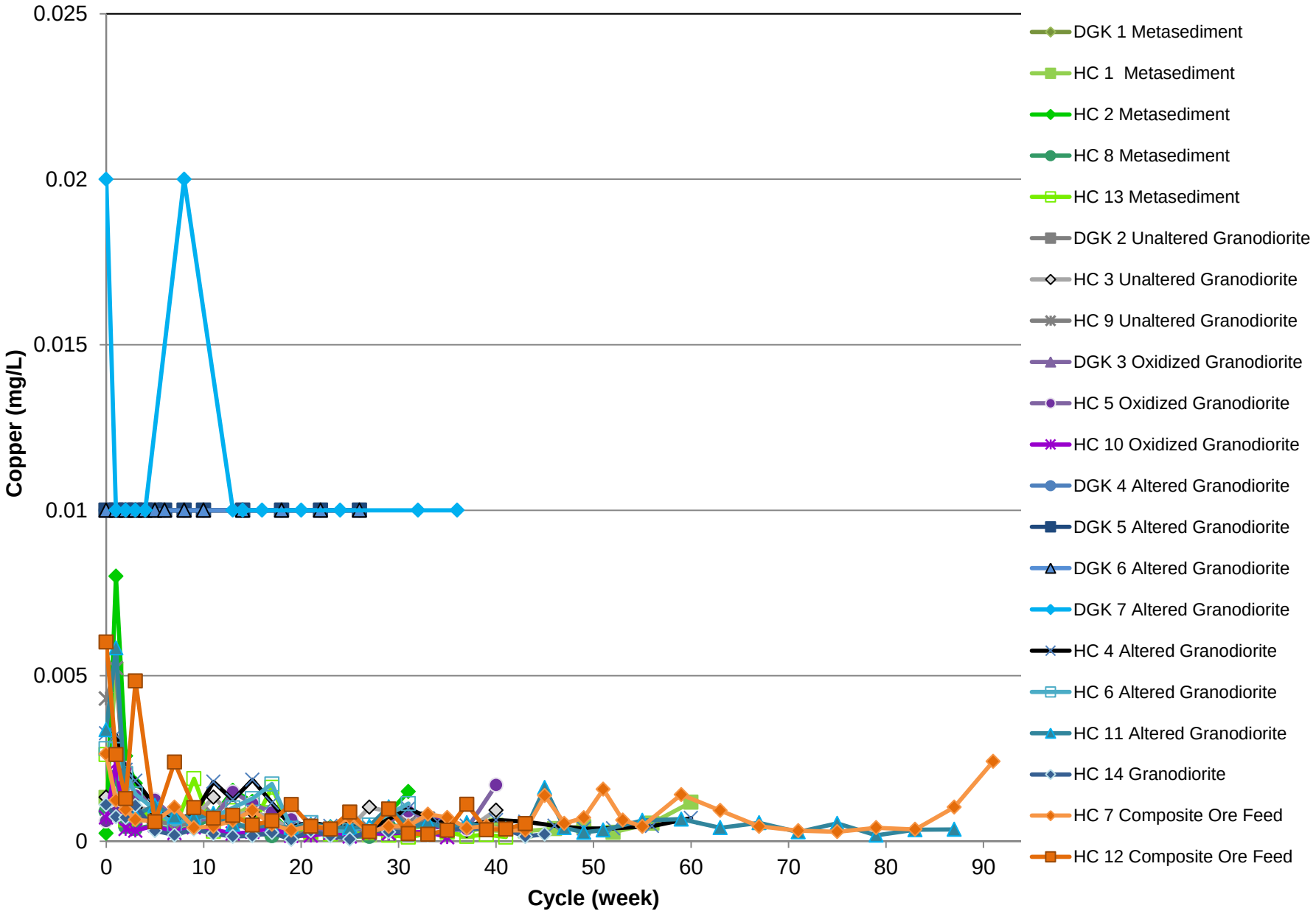
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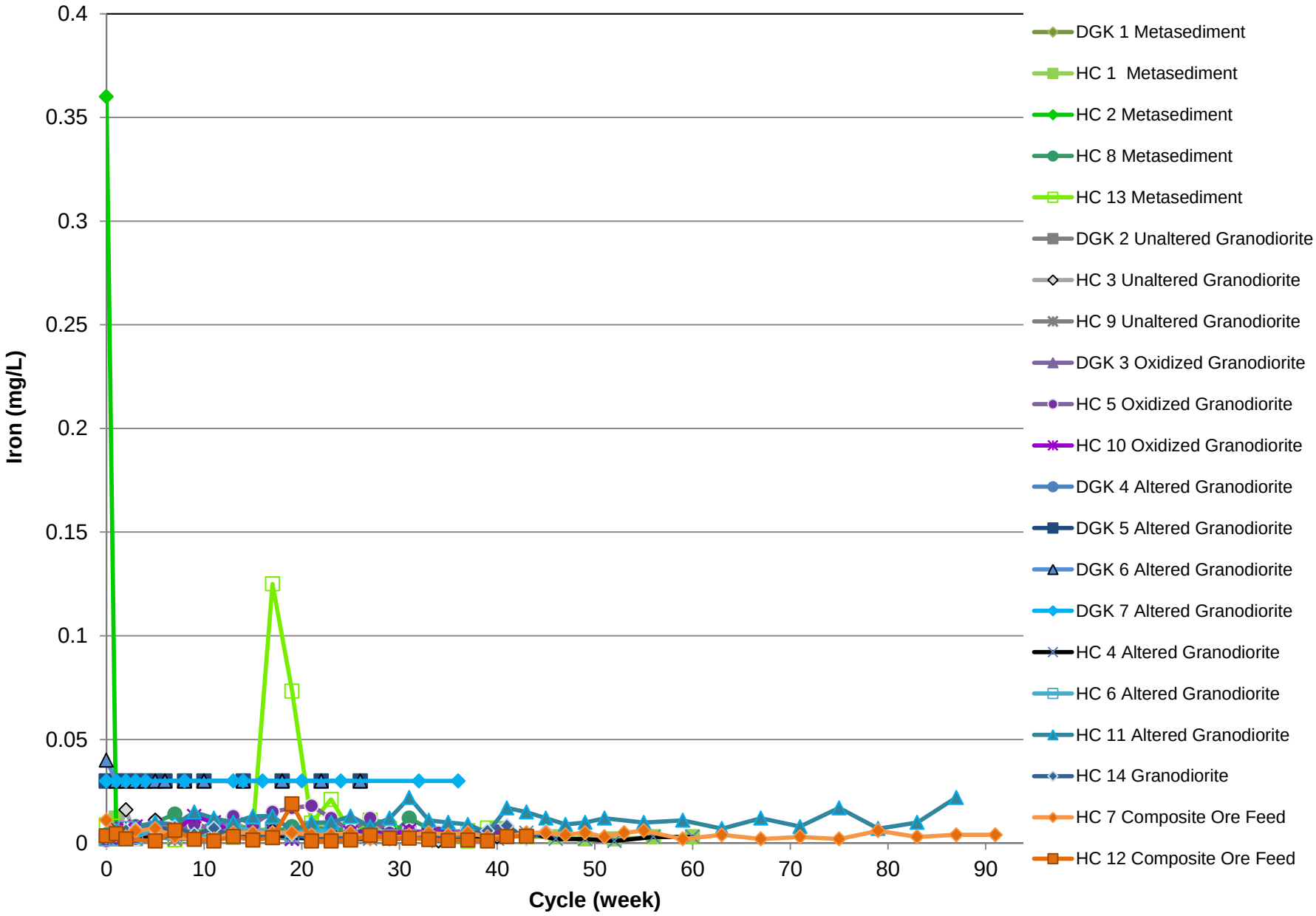
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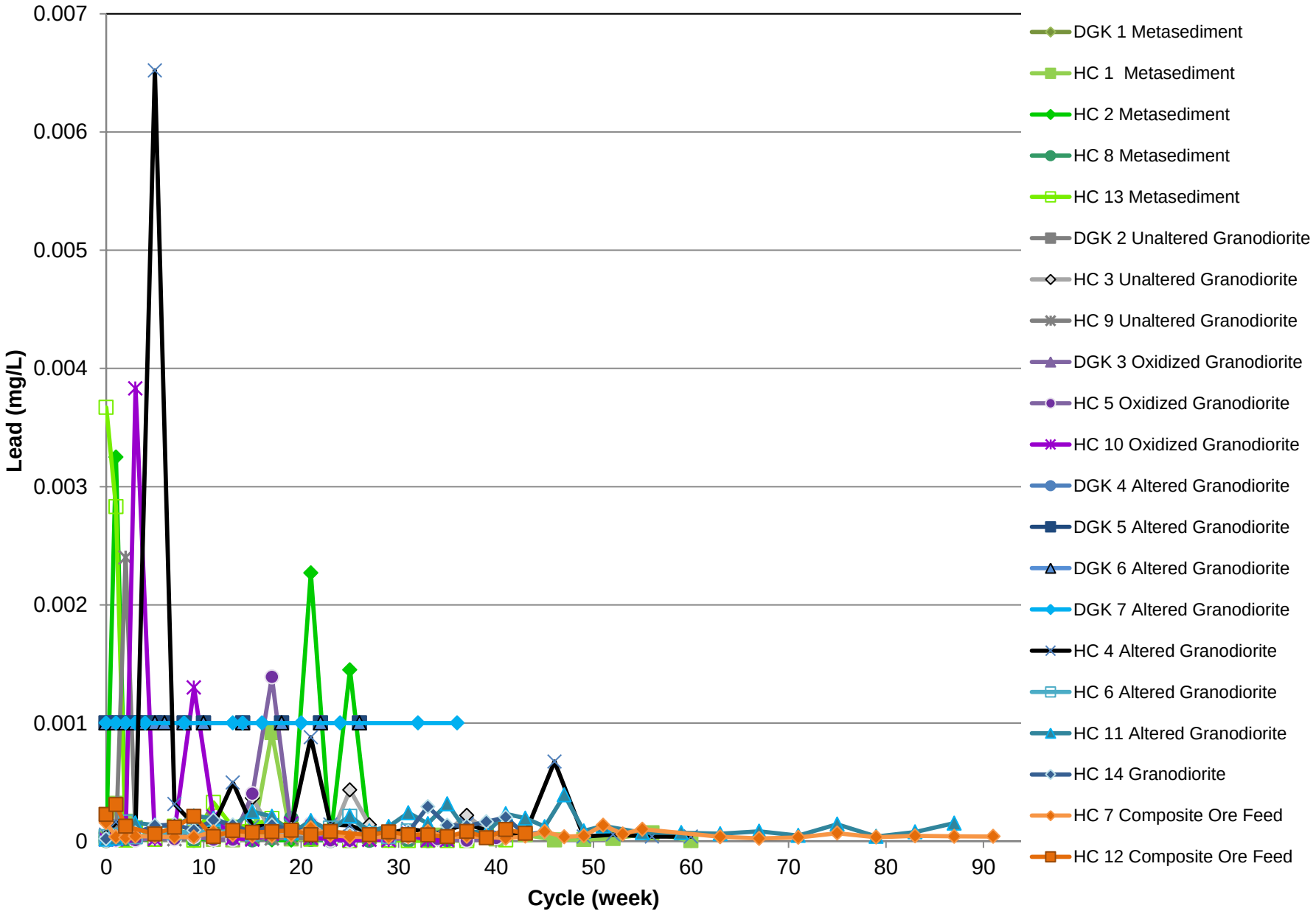
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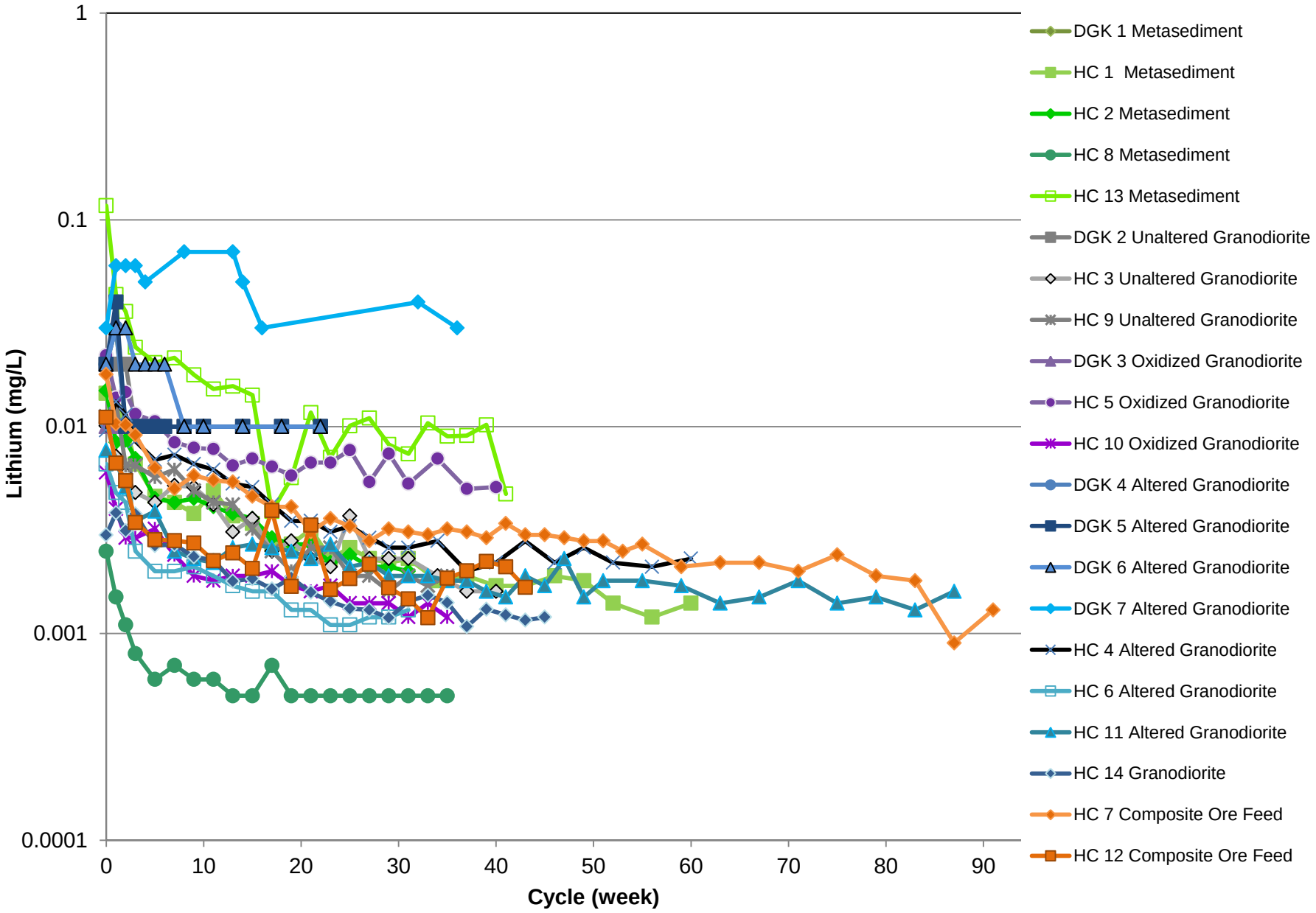
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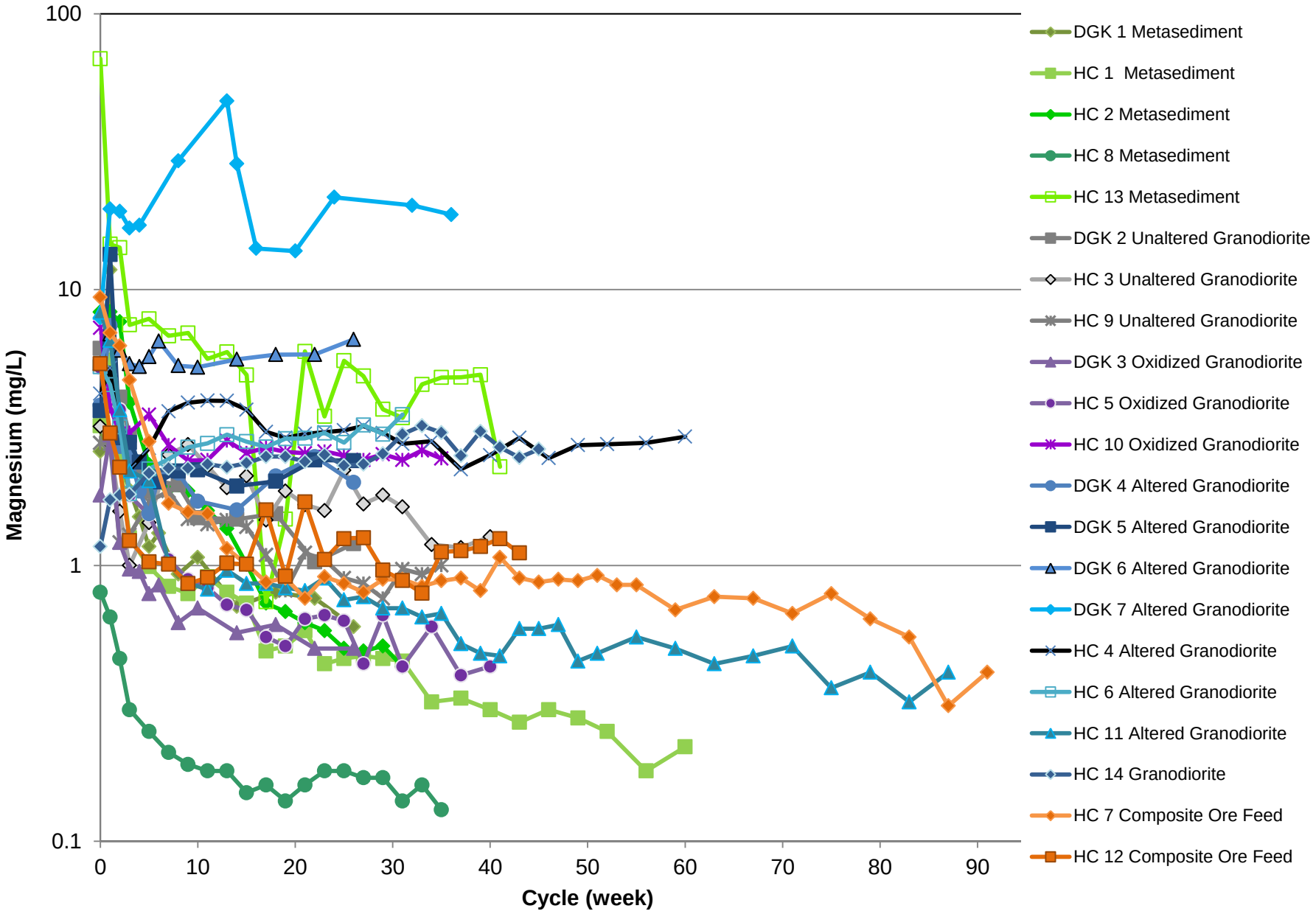
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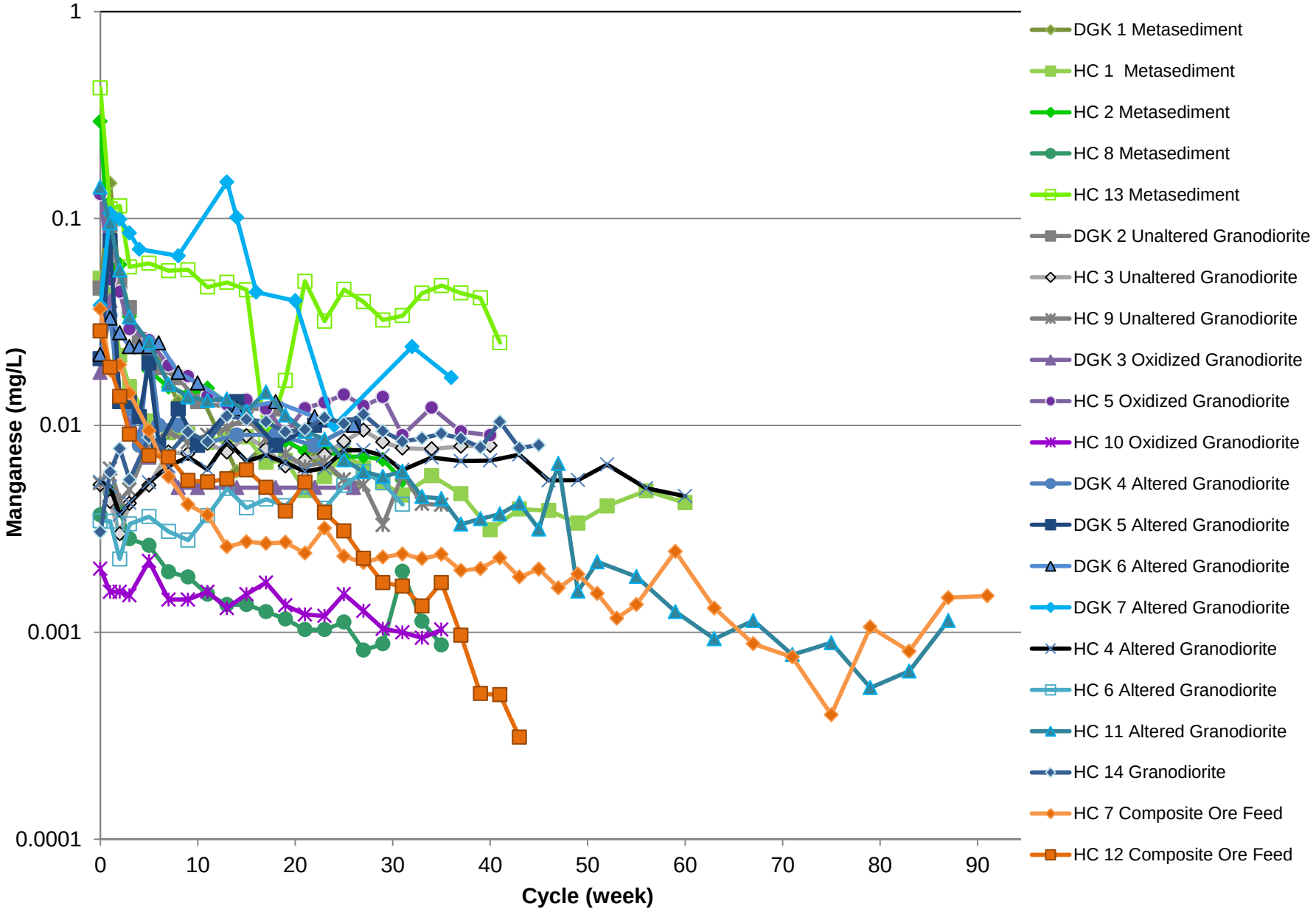
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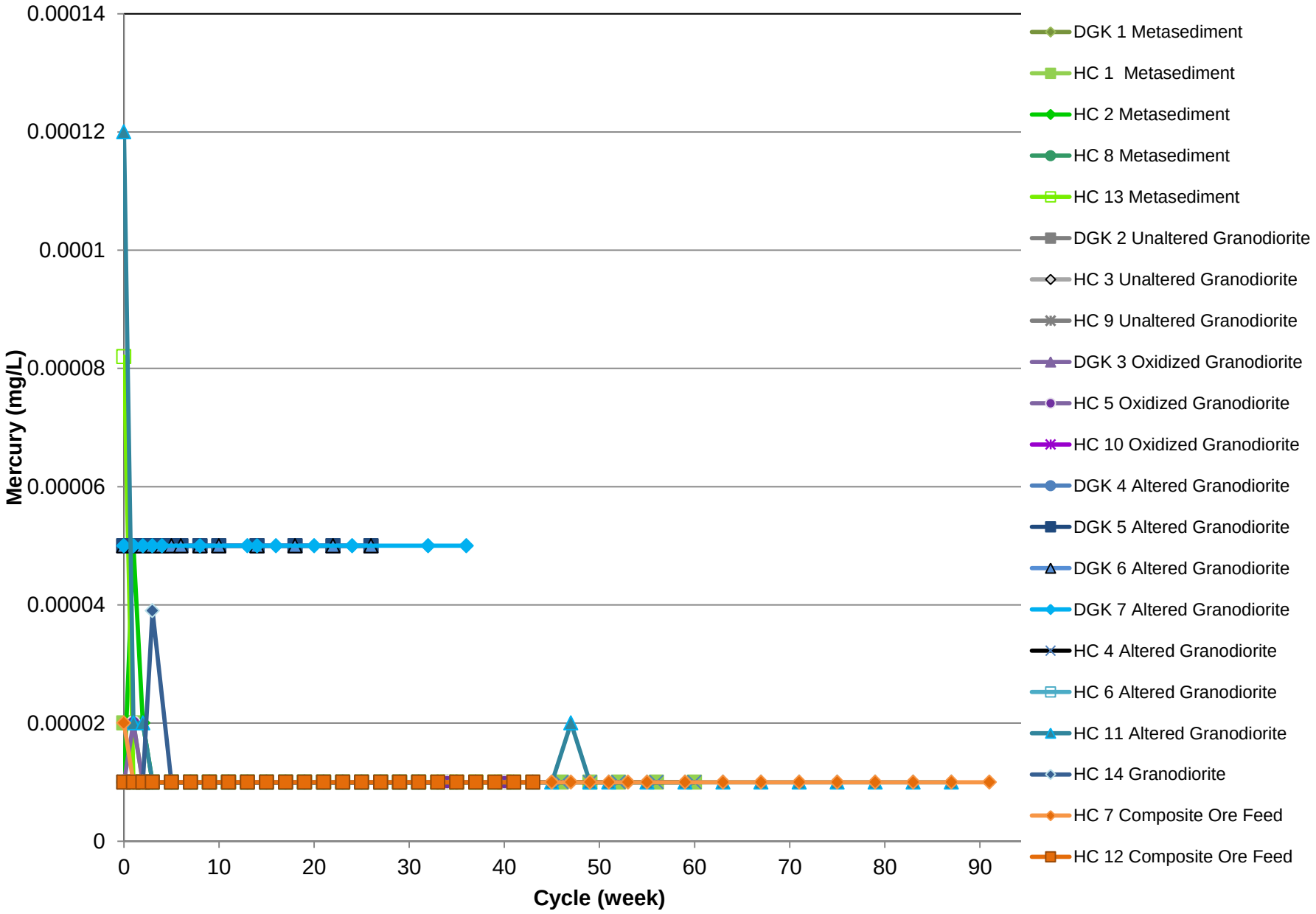
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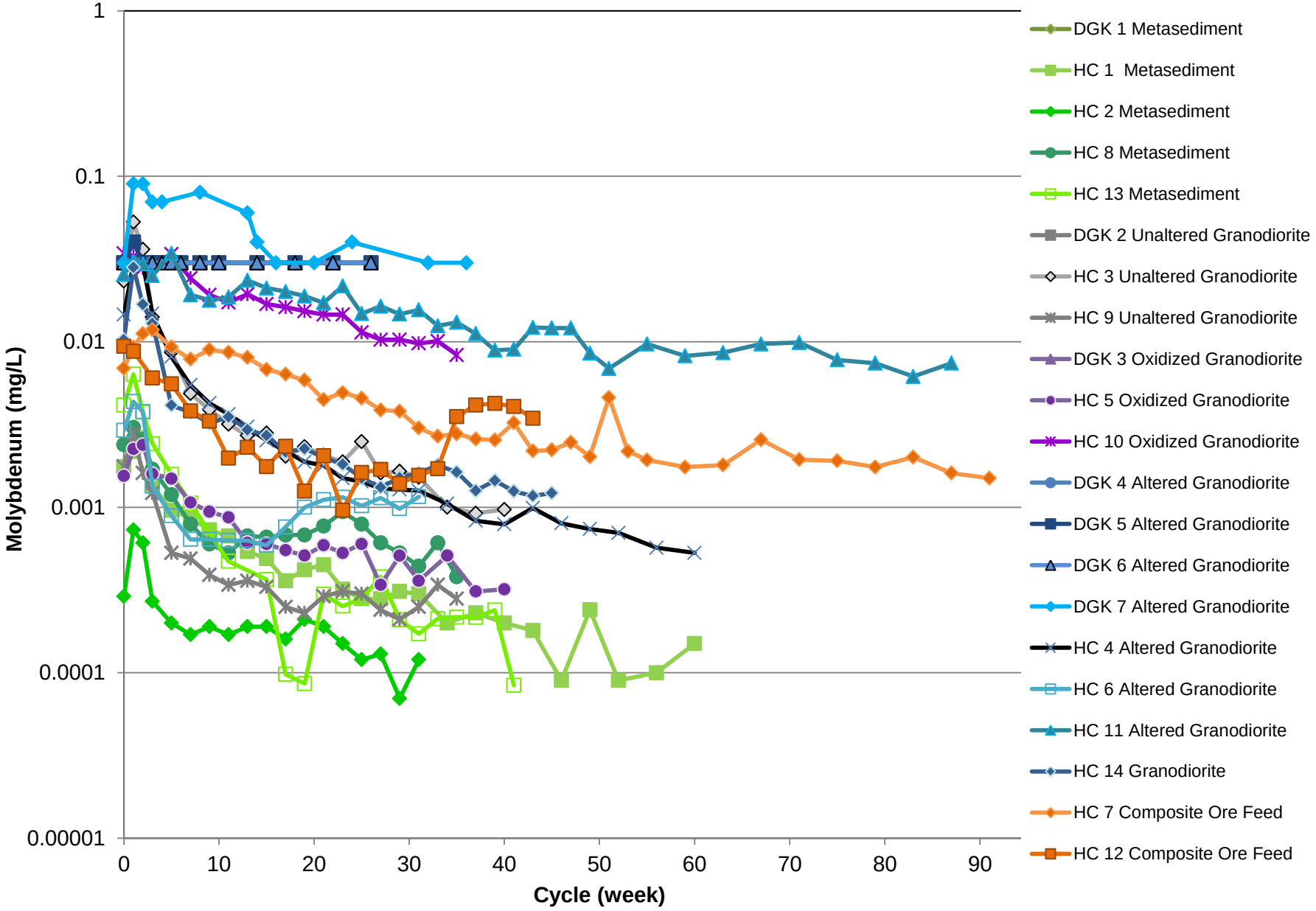
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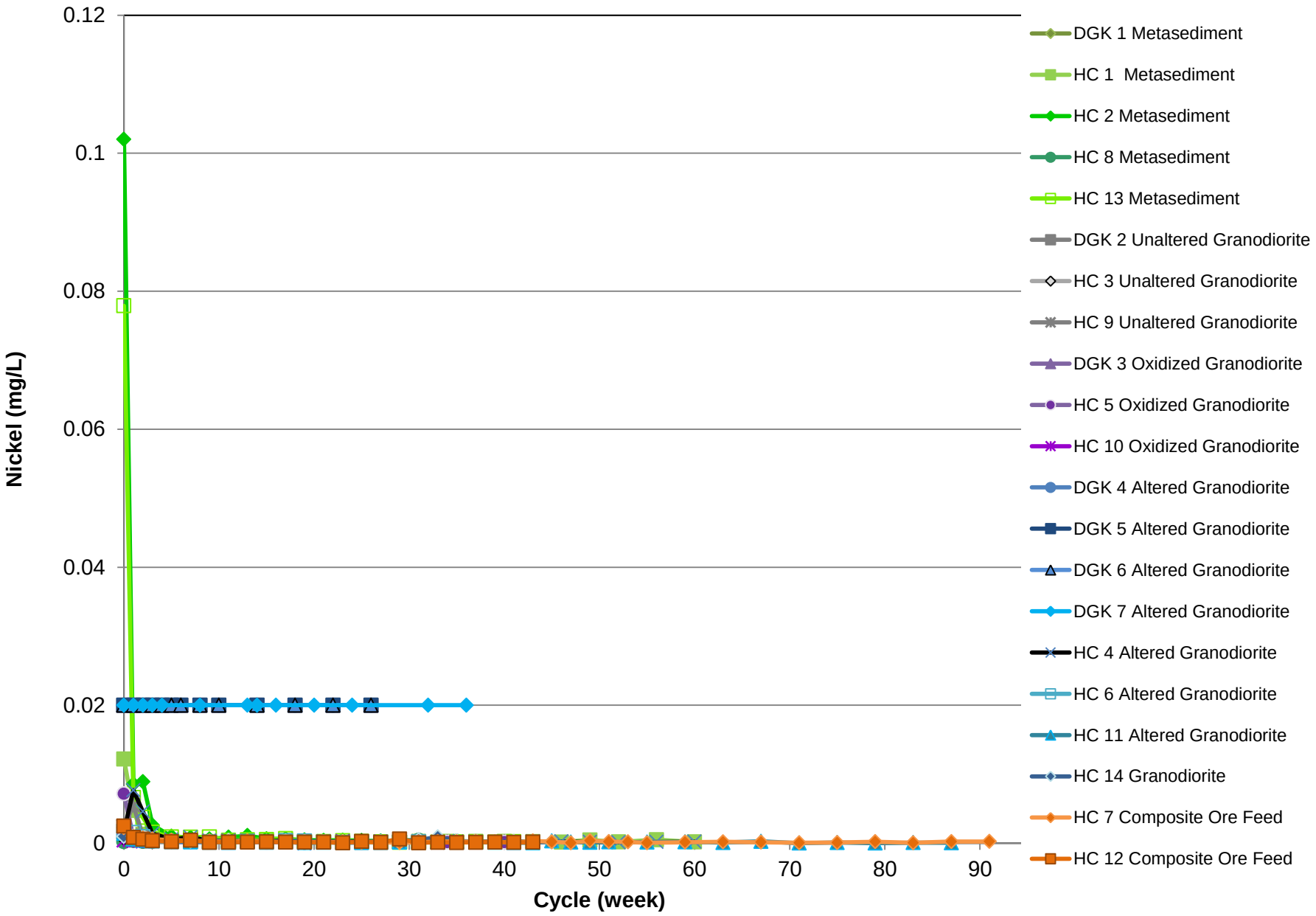
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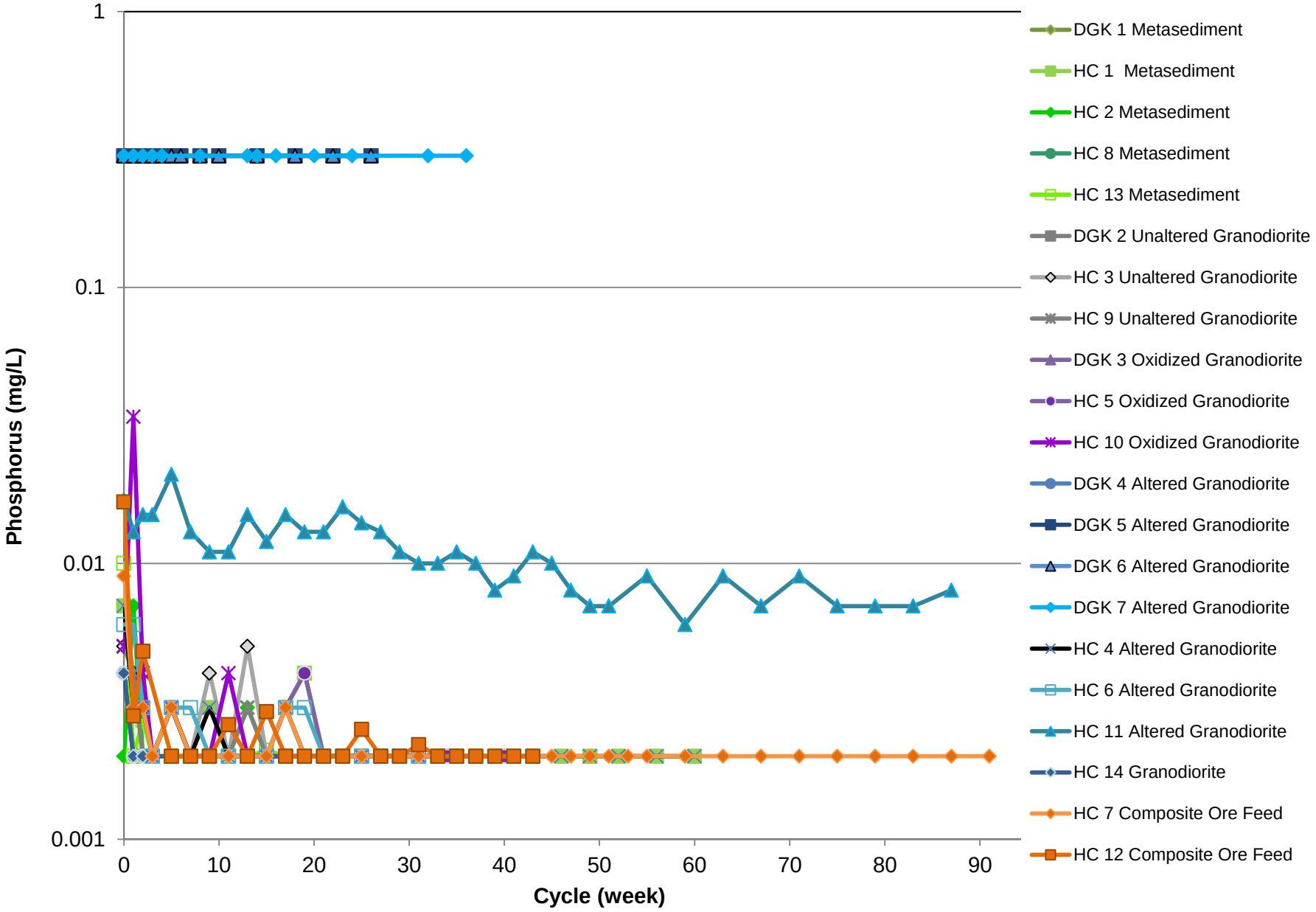
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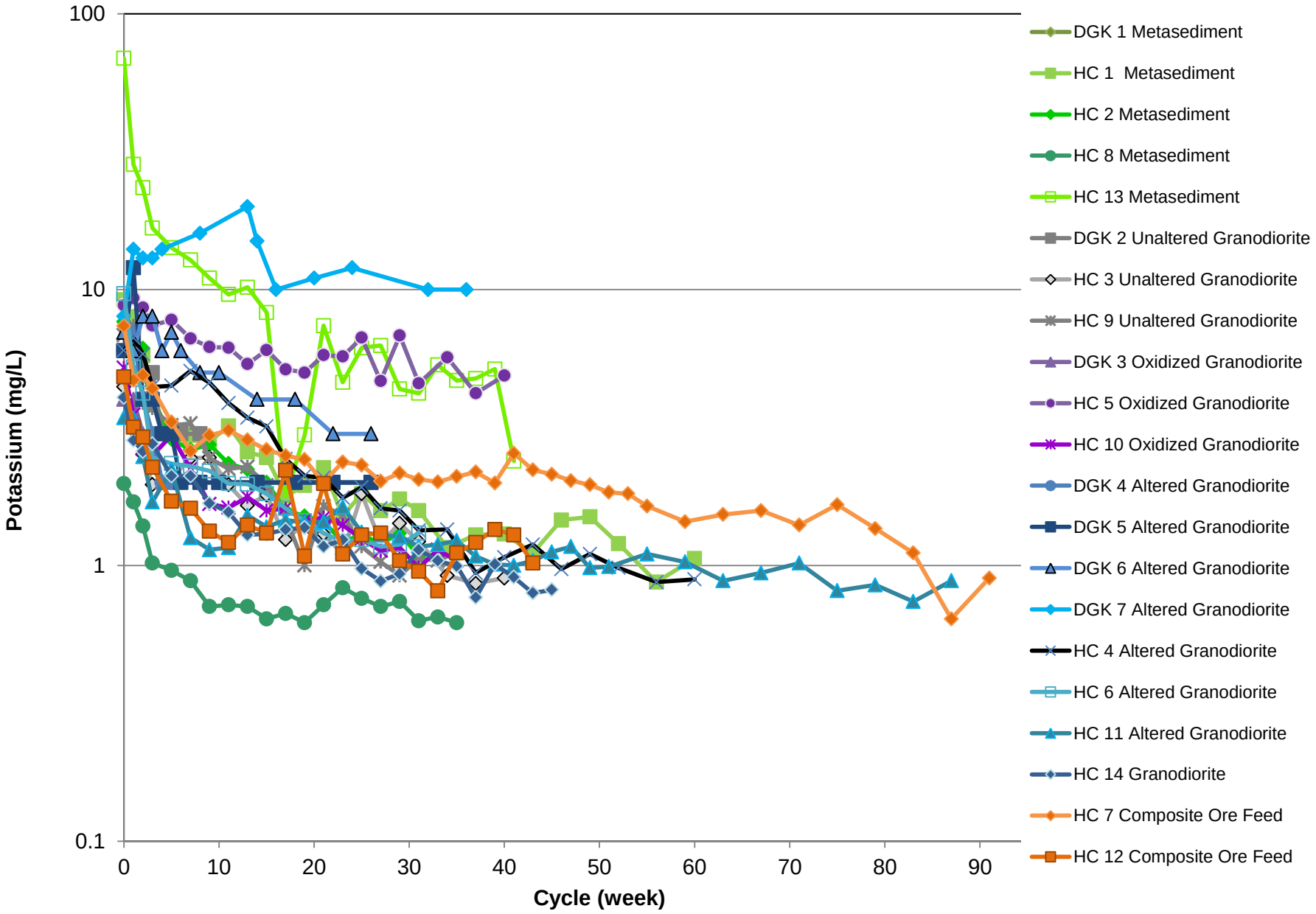
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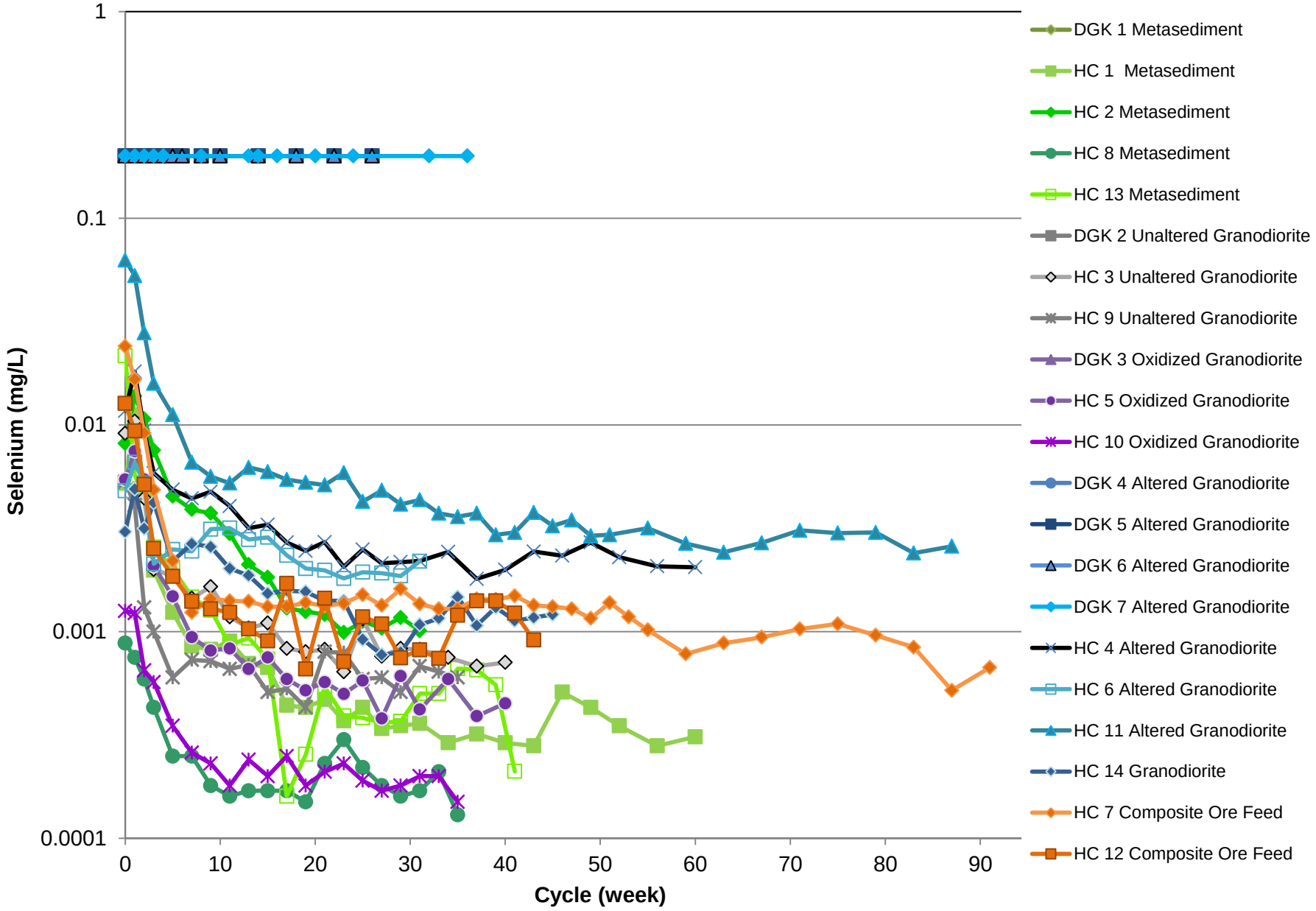
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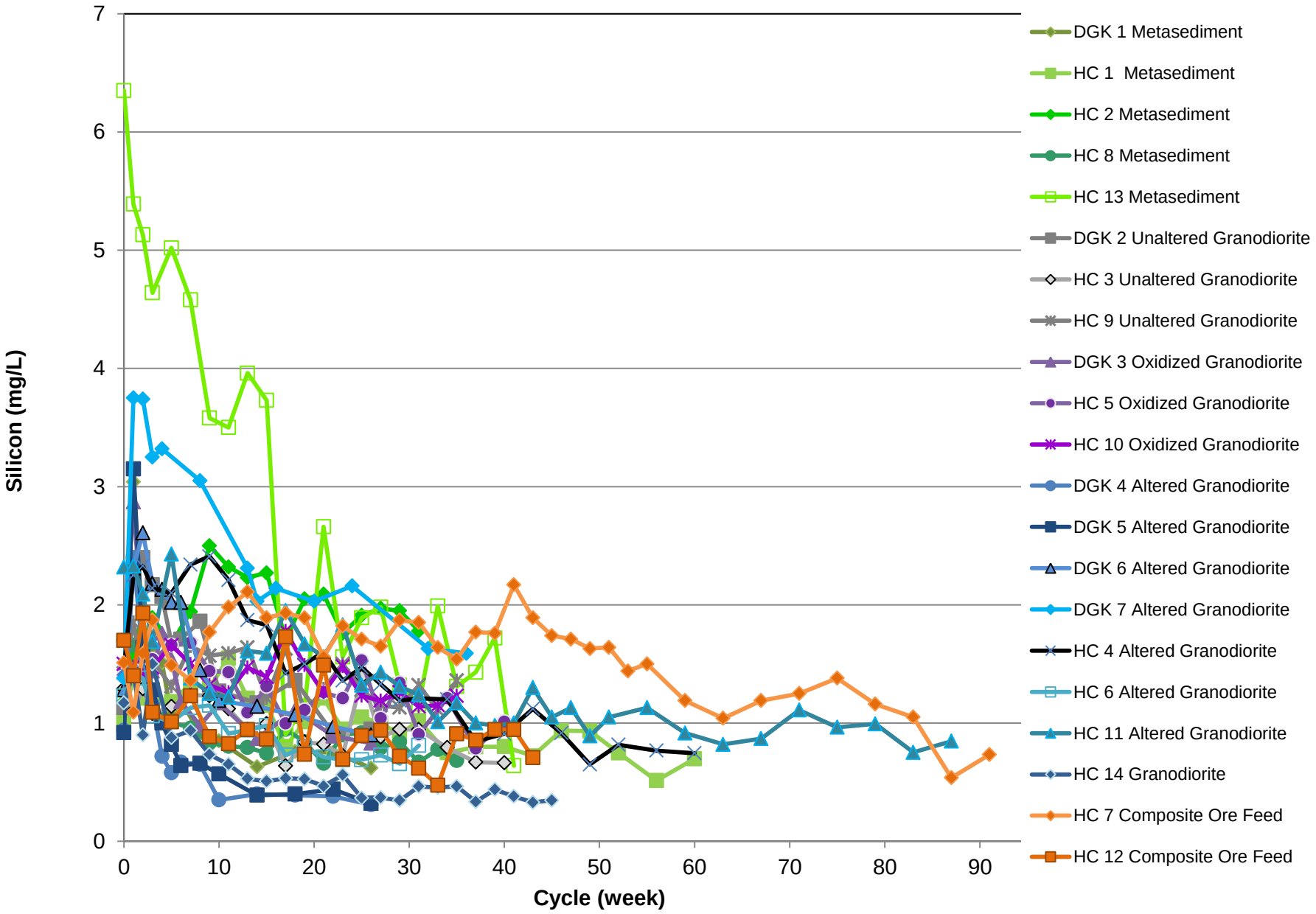
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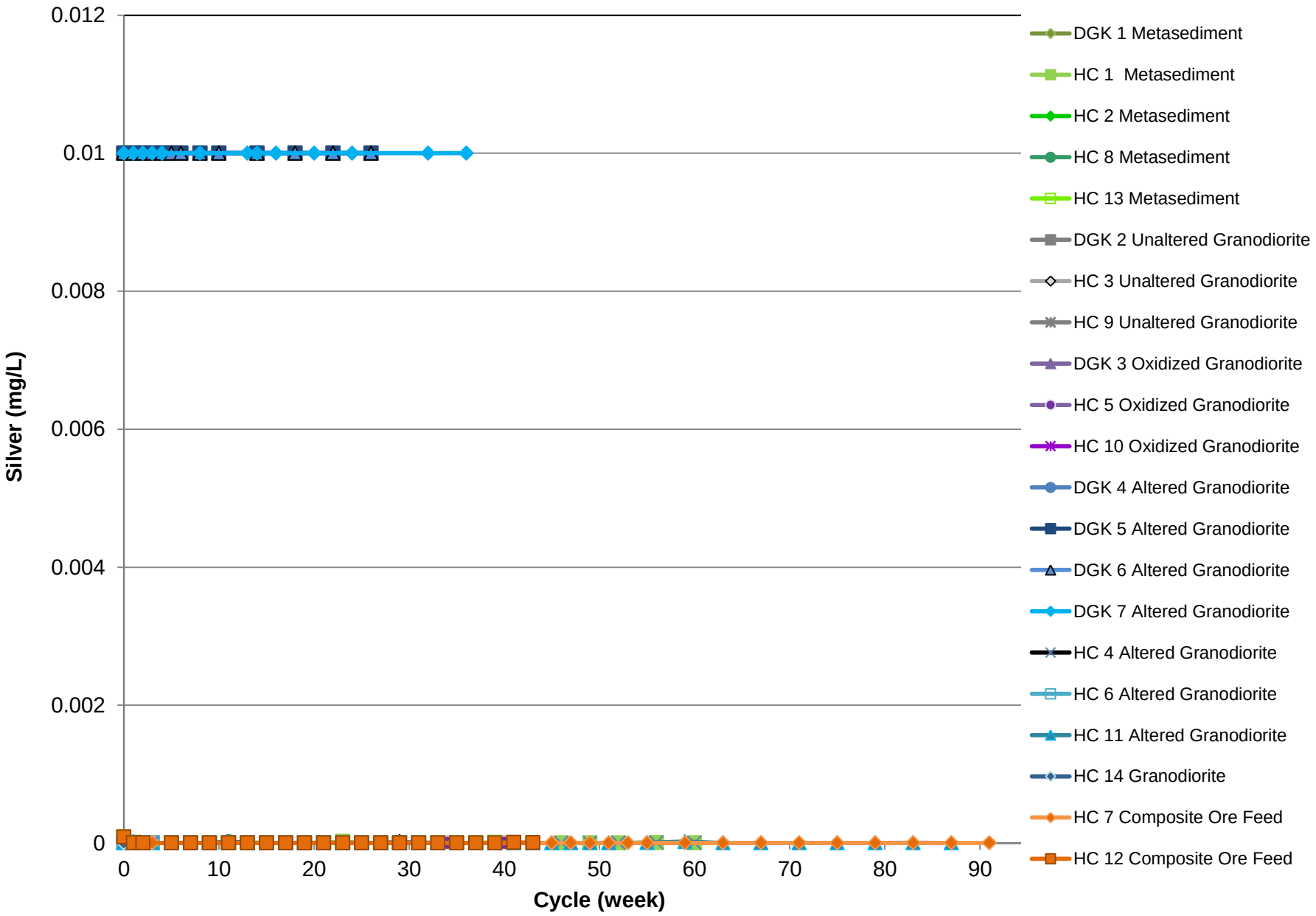
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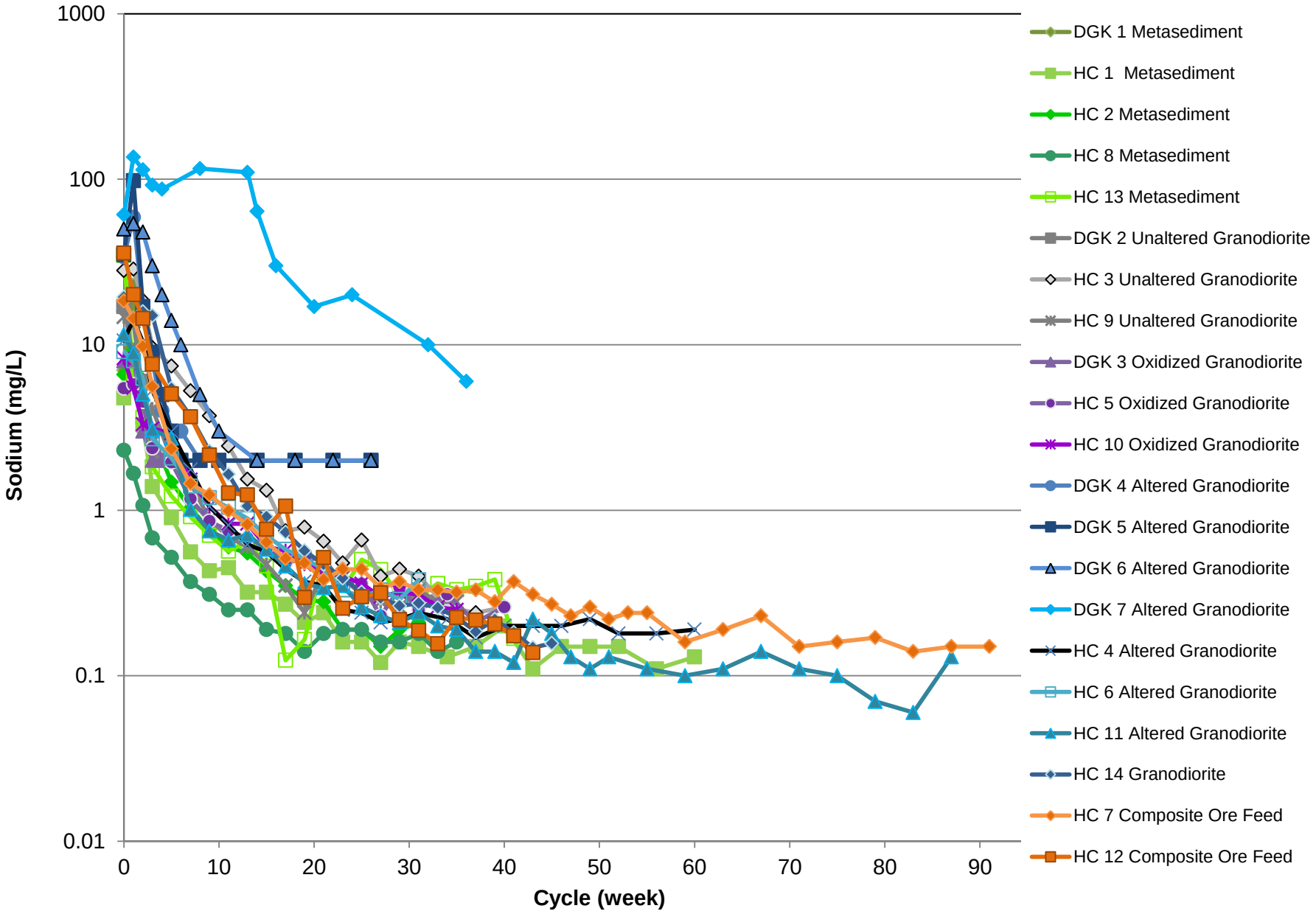
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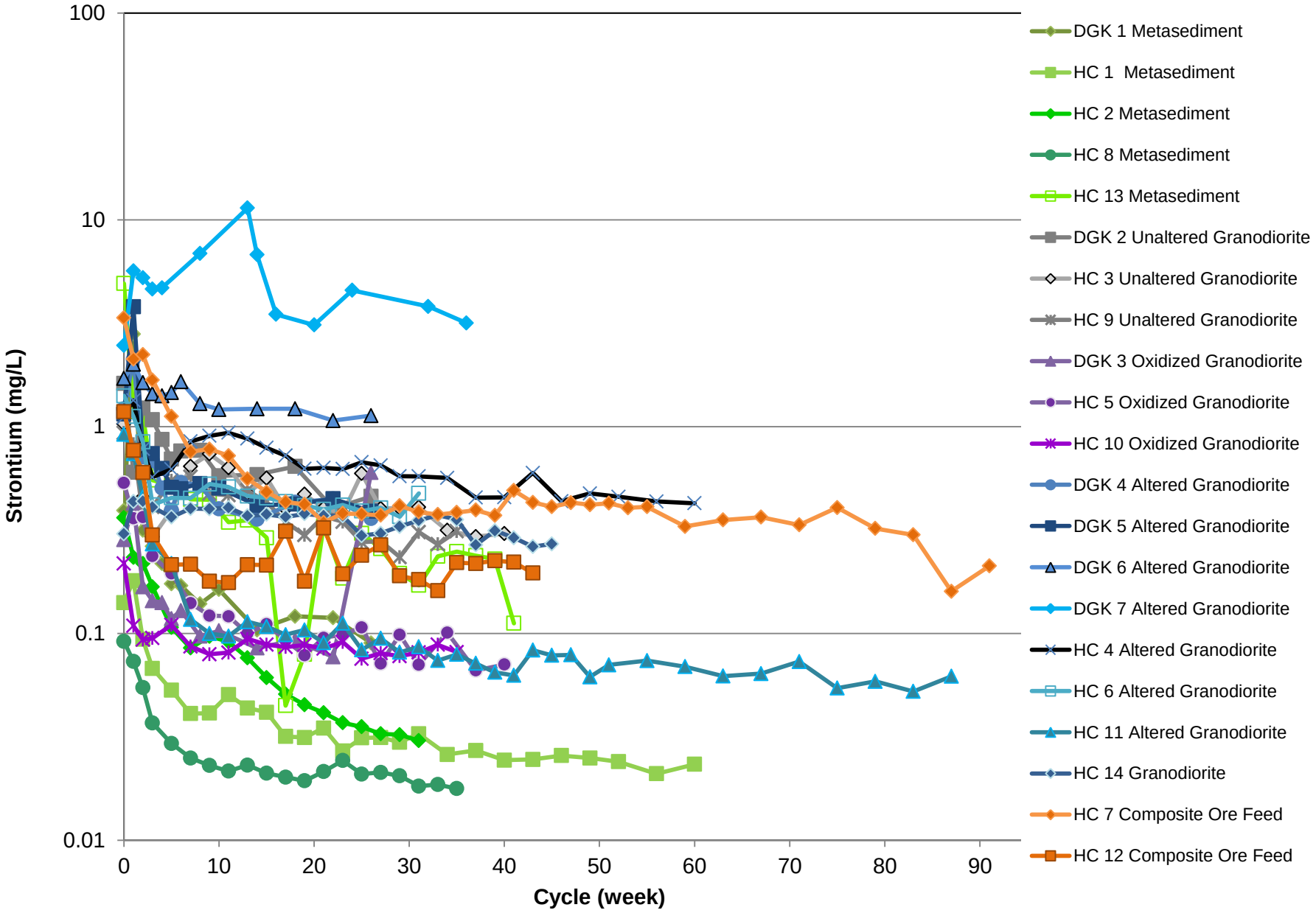
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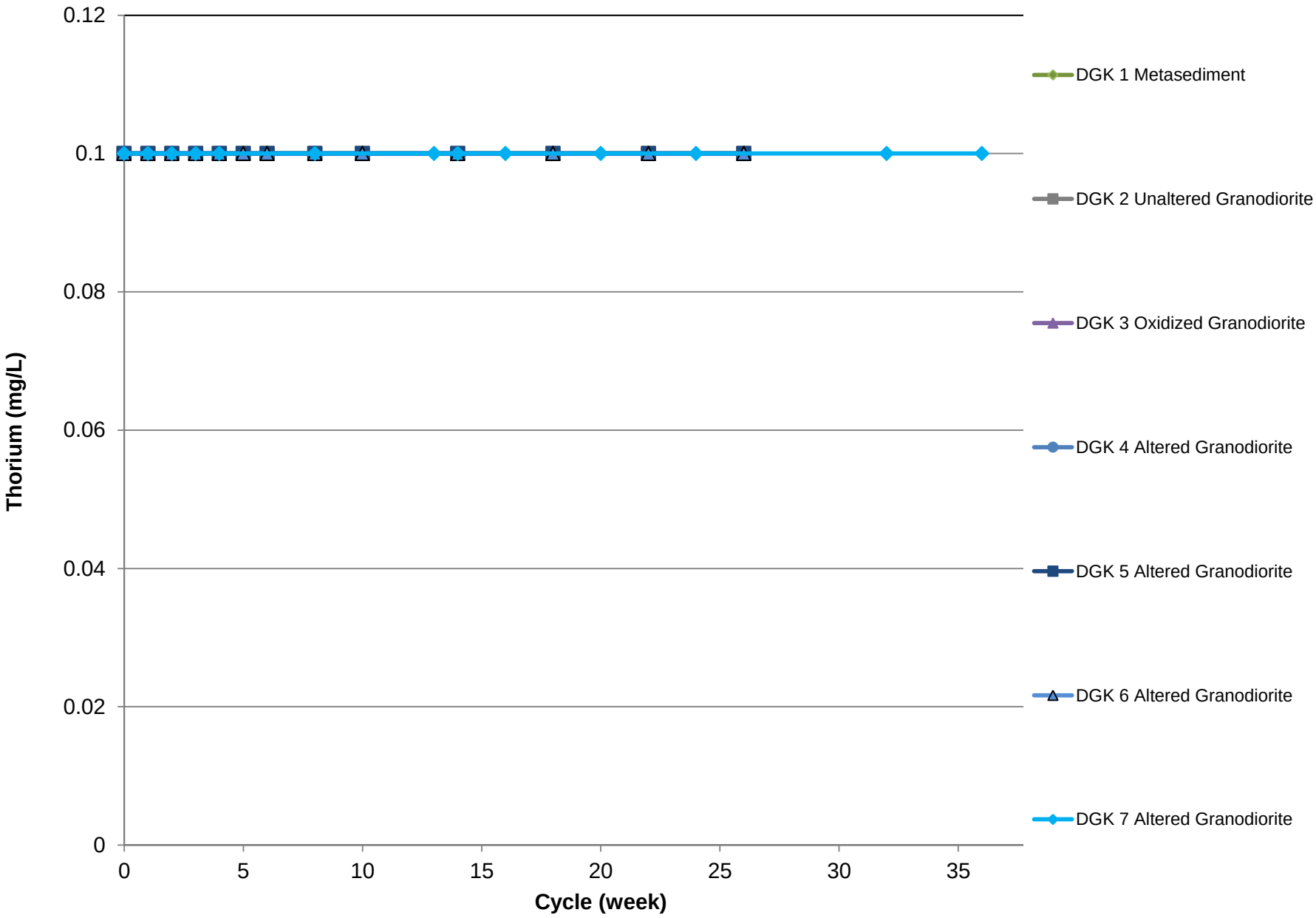
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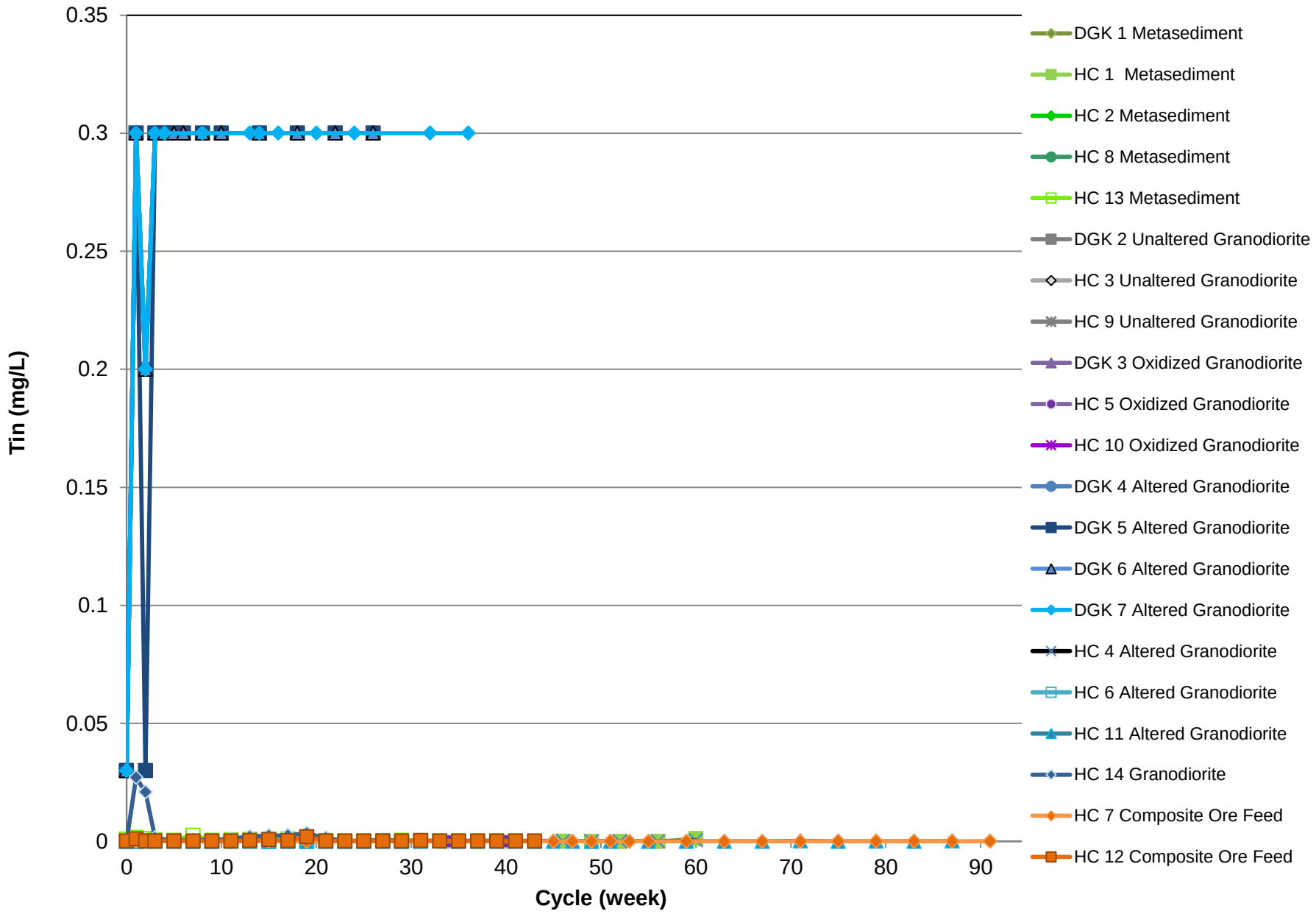
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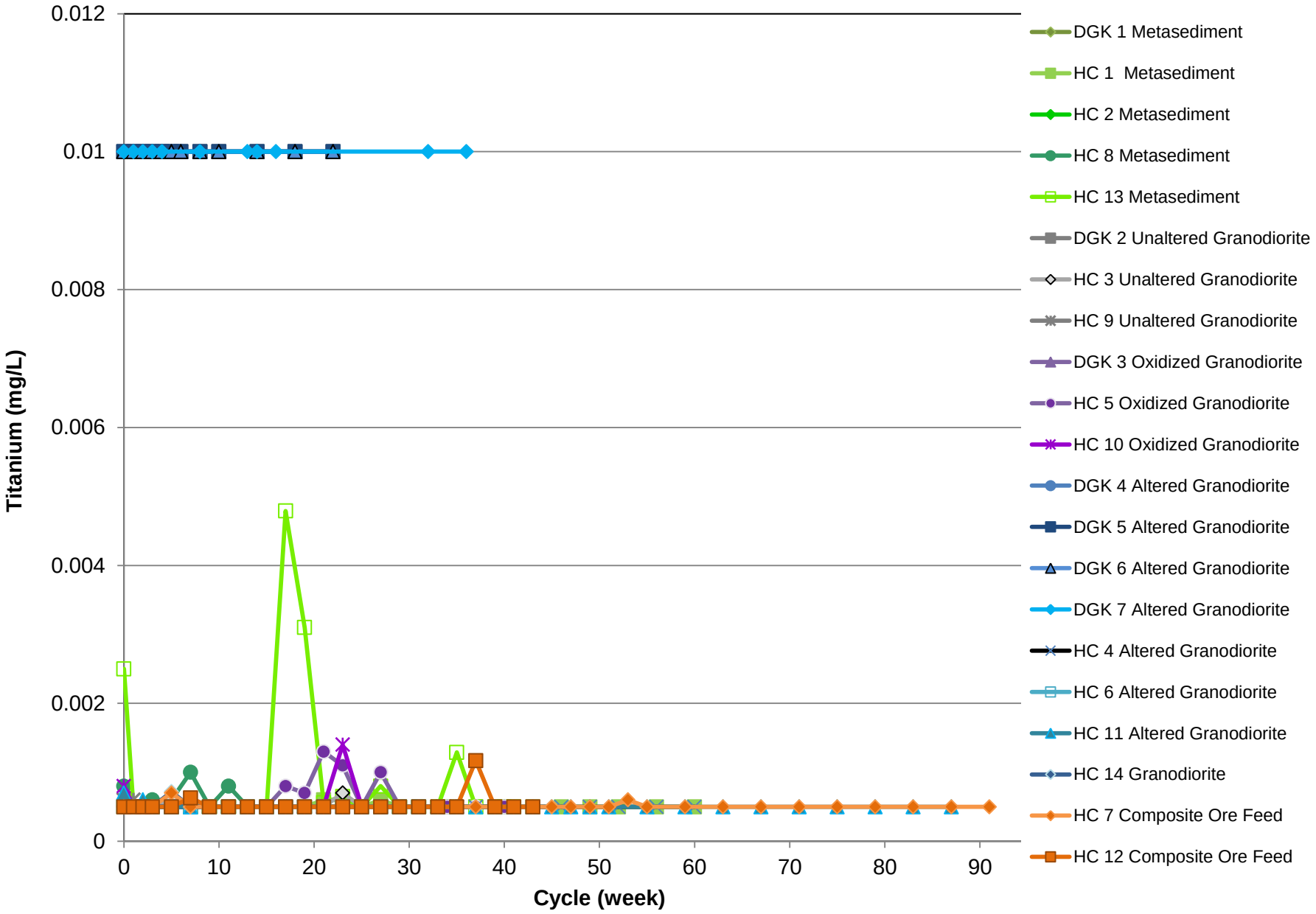
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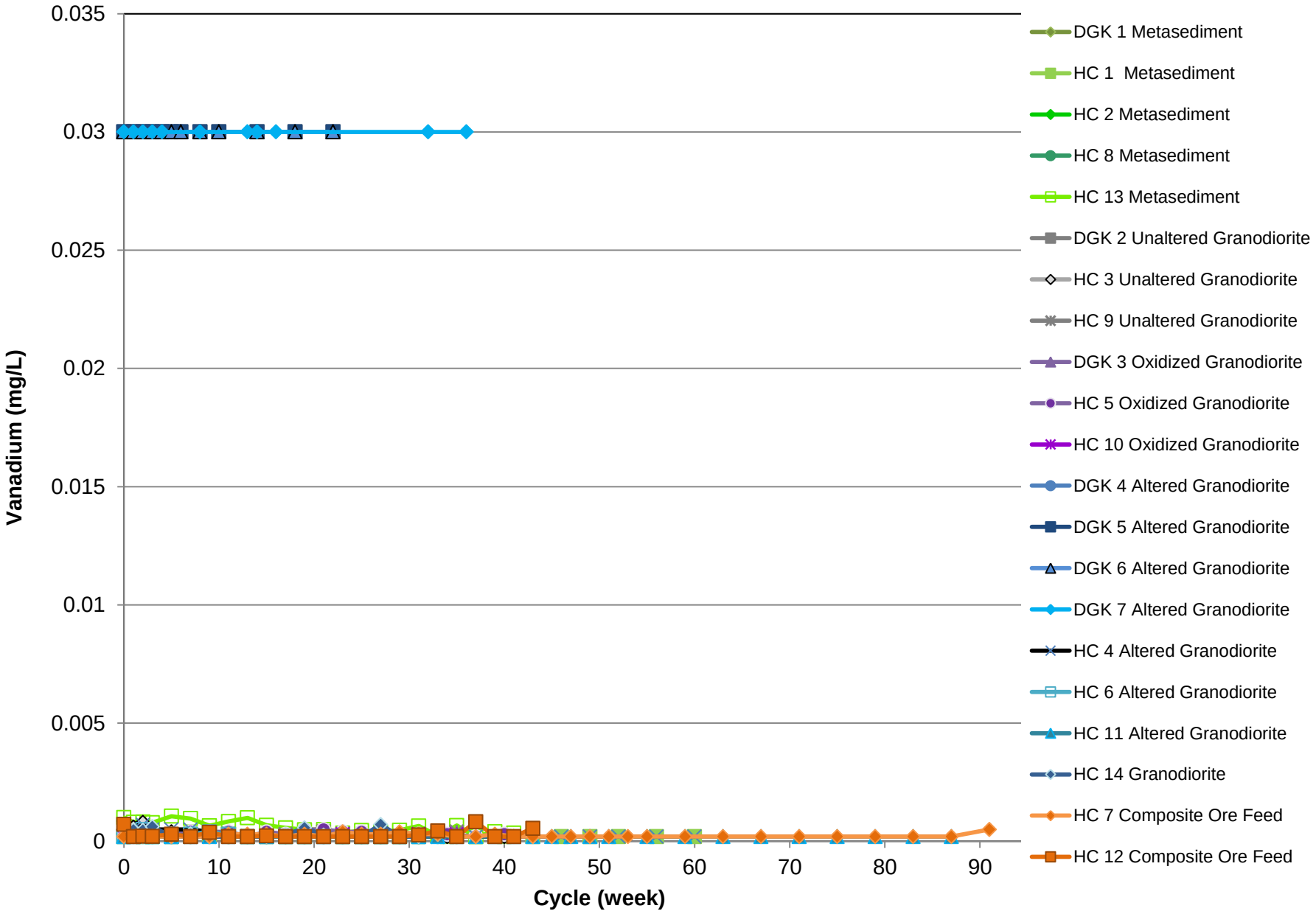


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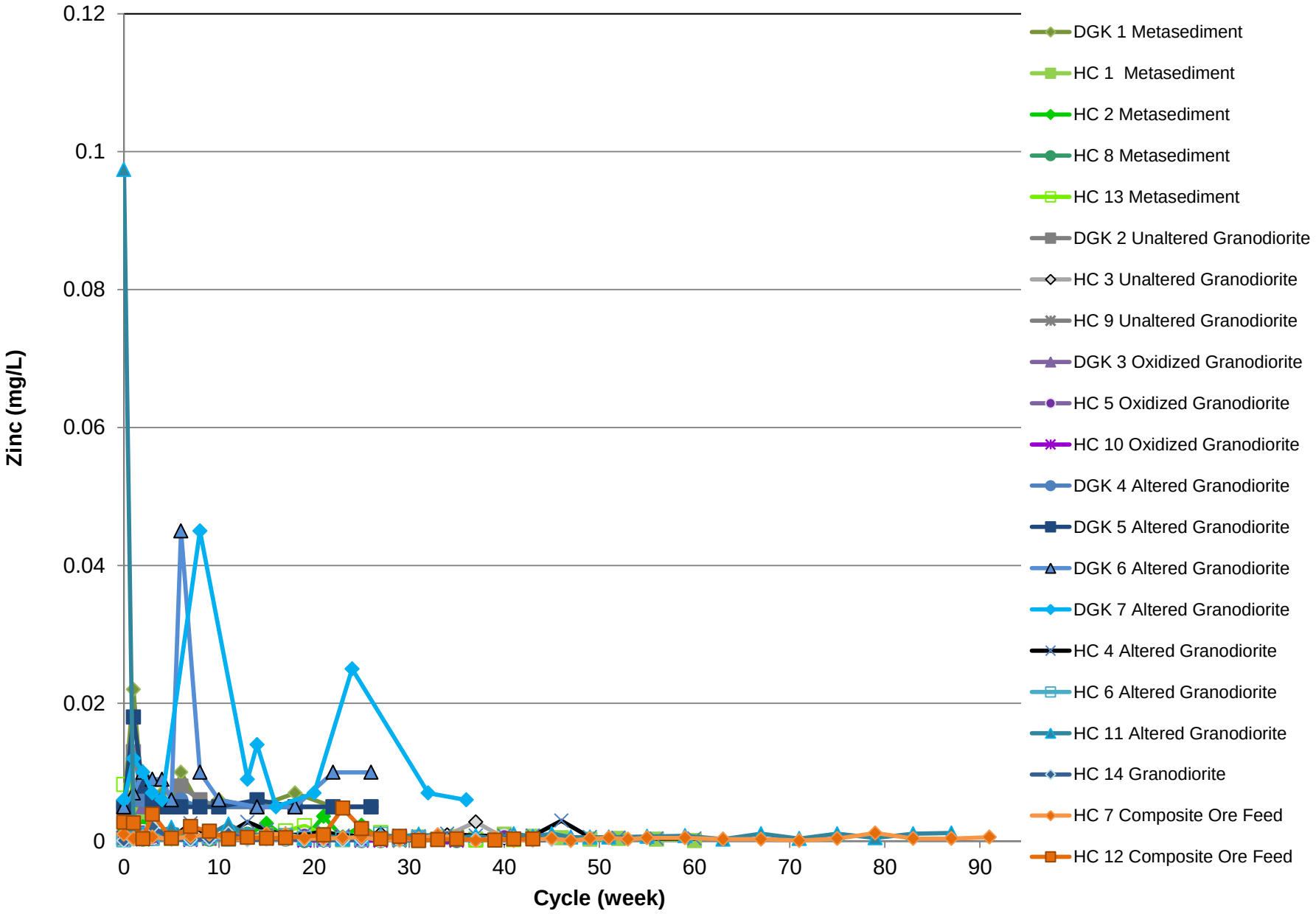


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0.012
0.01
0.008
0.006
0.004
0.002
0
Titanium (mg/L)
0
10
20
30
40
50
60
70
80
90
Cycle (week)
DGK 1 Metasediment
HC 1 Metasediment
HC 2 Metasediment
HC 8 Metasediment
HC 13 Metasediment
DGK 2 Unaltered Granodiorite
HC 3 Unaltered Granodiorite
HC 9 Unaltered Granodiorite
DGK 3 Oxidized Granodiorite
HC 5 Oxidized Granodiorite
HC 10 Oxidized Granodiorite
DGK 4 Altered Granodiorite
DGK 5 Altered Granodiorite
DGK 6 Altered Granodiorite
DGK 7 Altered Granodiorite
HC 4 Altered Granodiorite
HC 6 Altered Granodiorite
HC 11 Altered Granodiorite
HC 14 Granodiorite
HC 7 Composite Ore Feed
HC 12 Composite Ore Feed

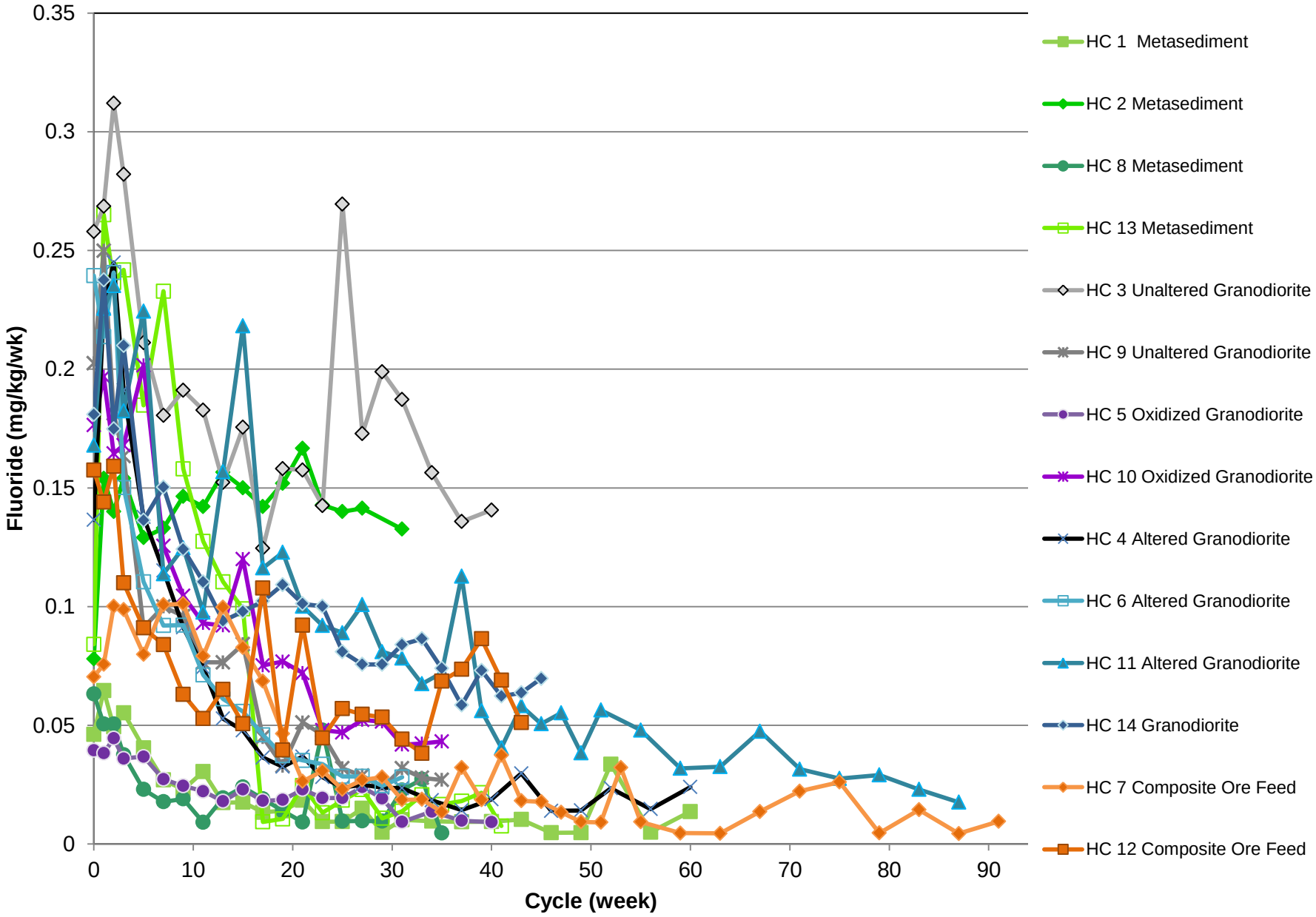


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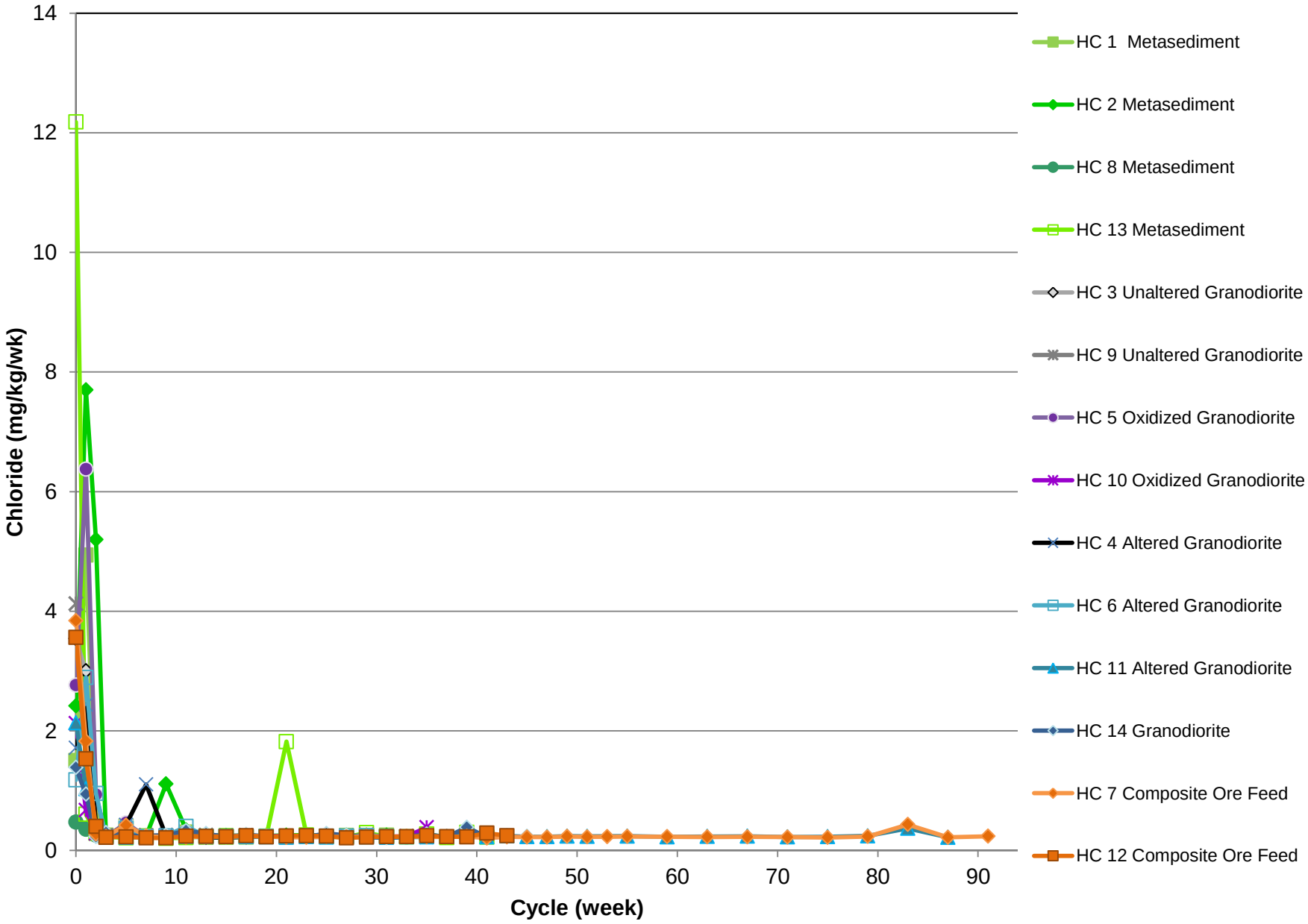


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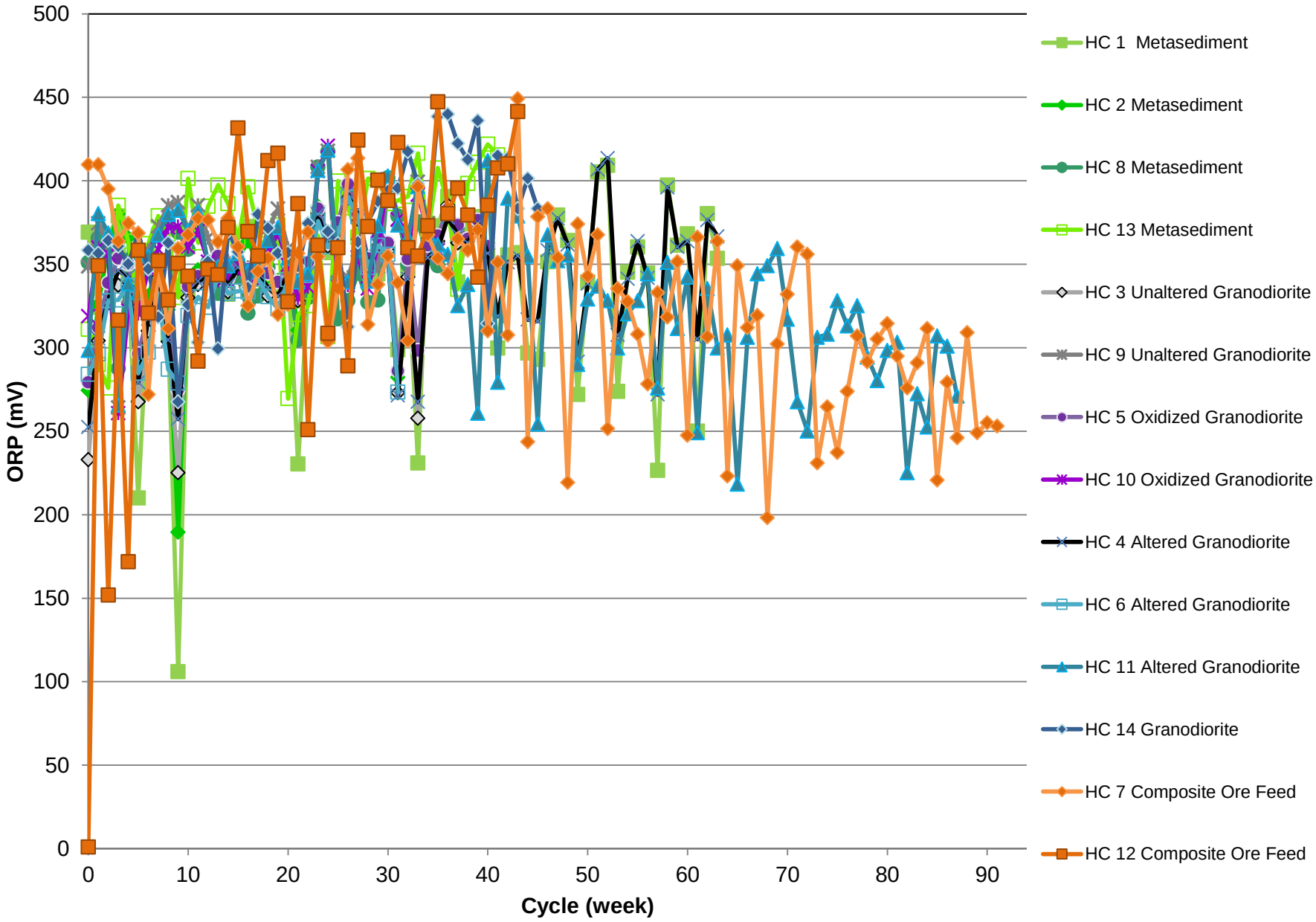
Appendix H4: Humidity Cell Test Loading Charts



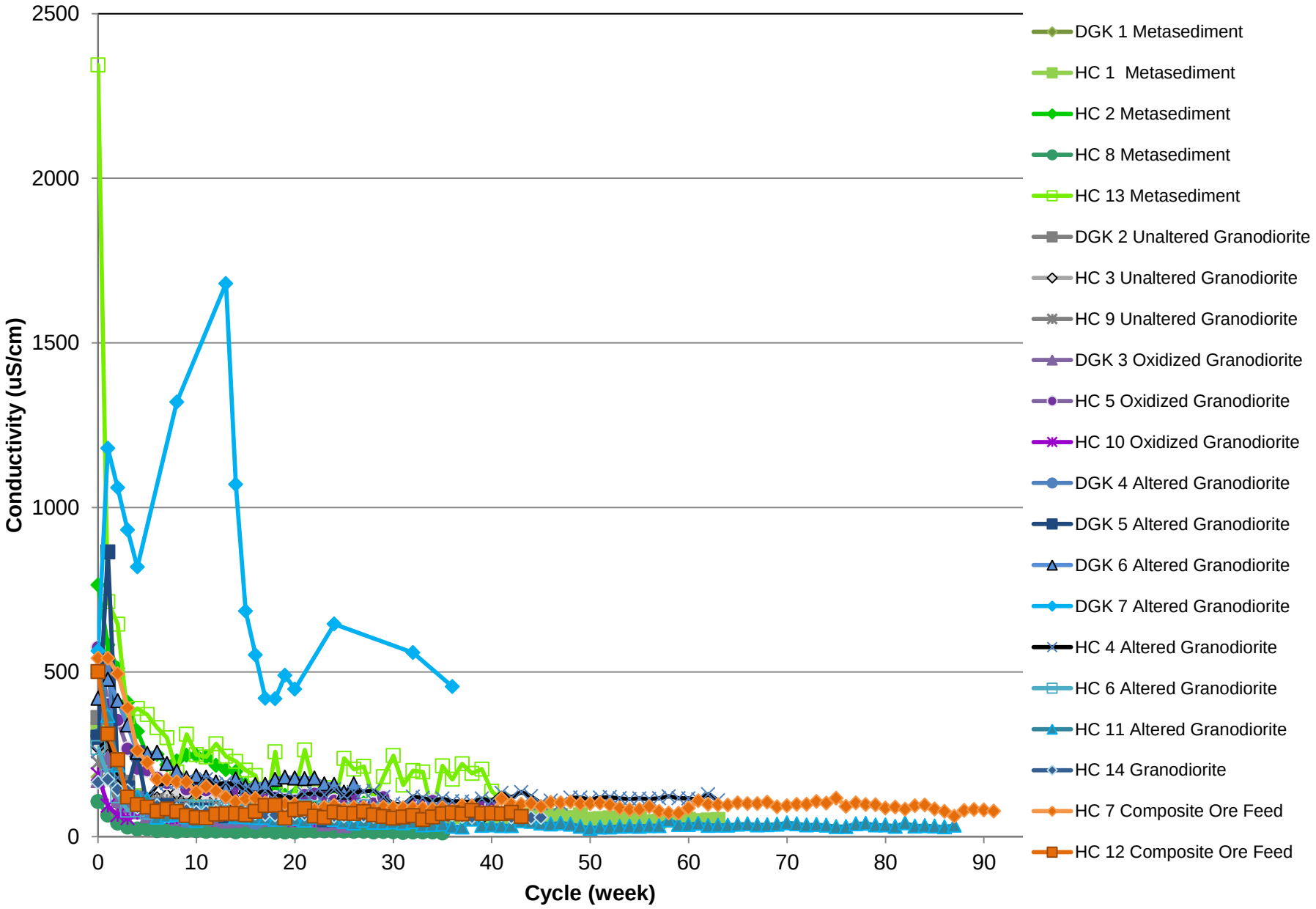
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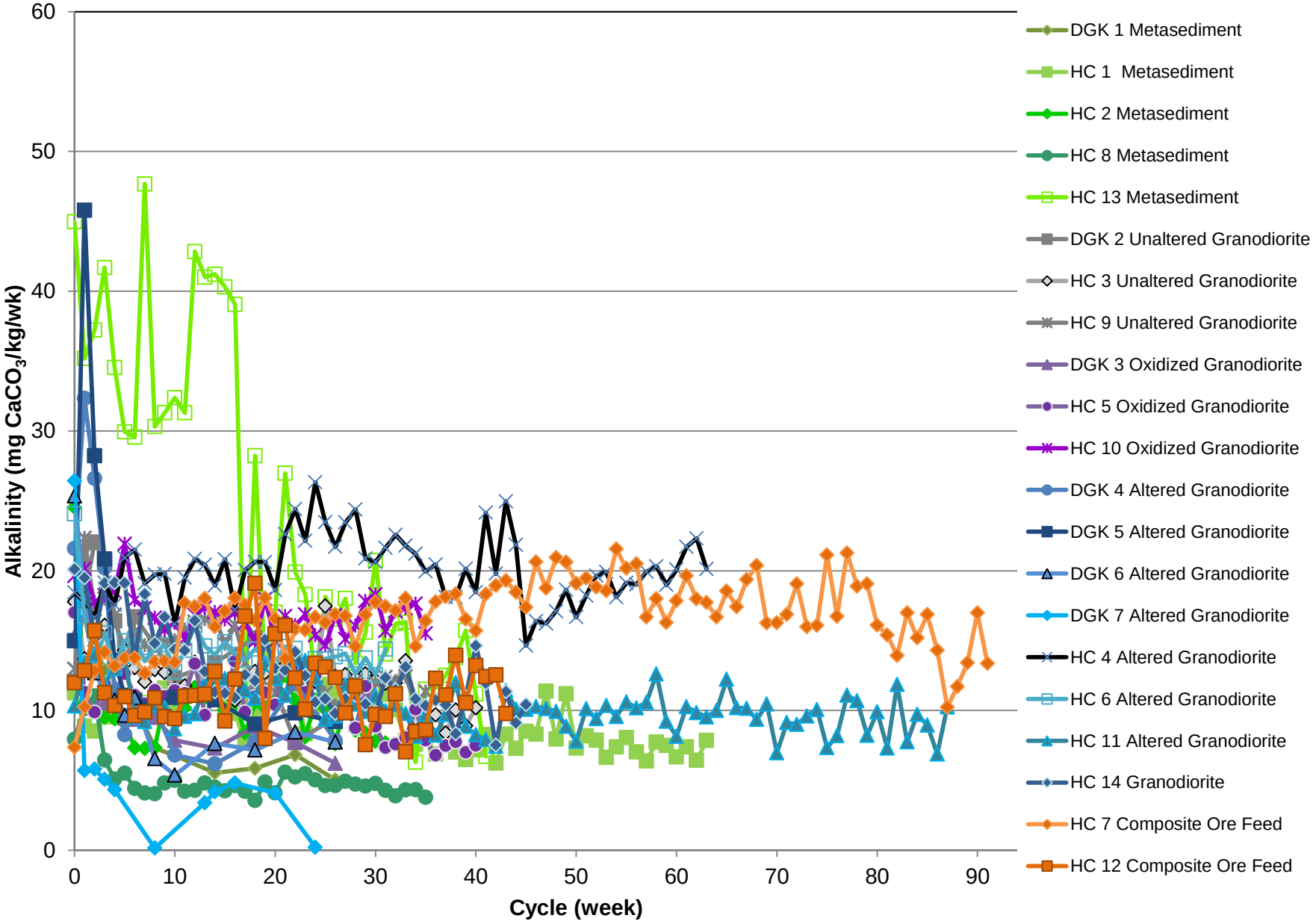
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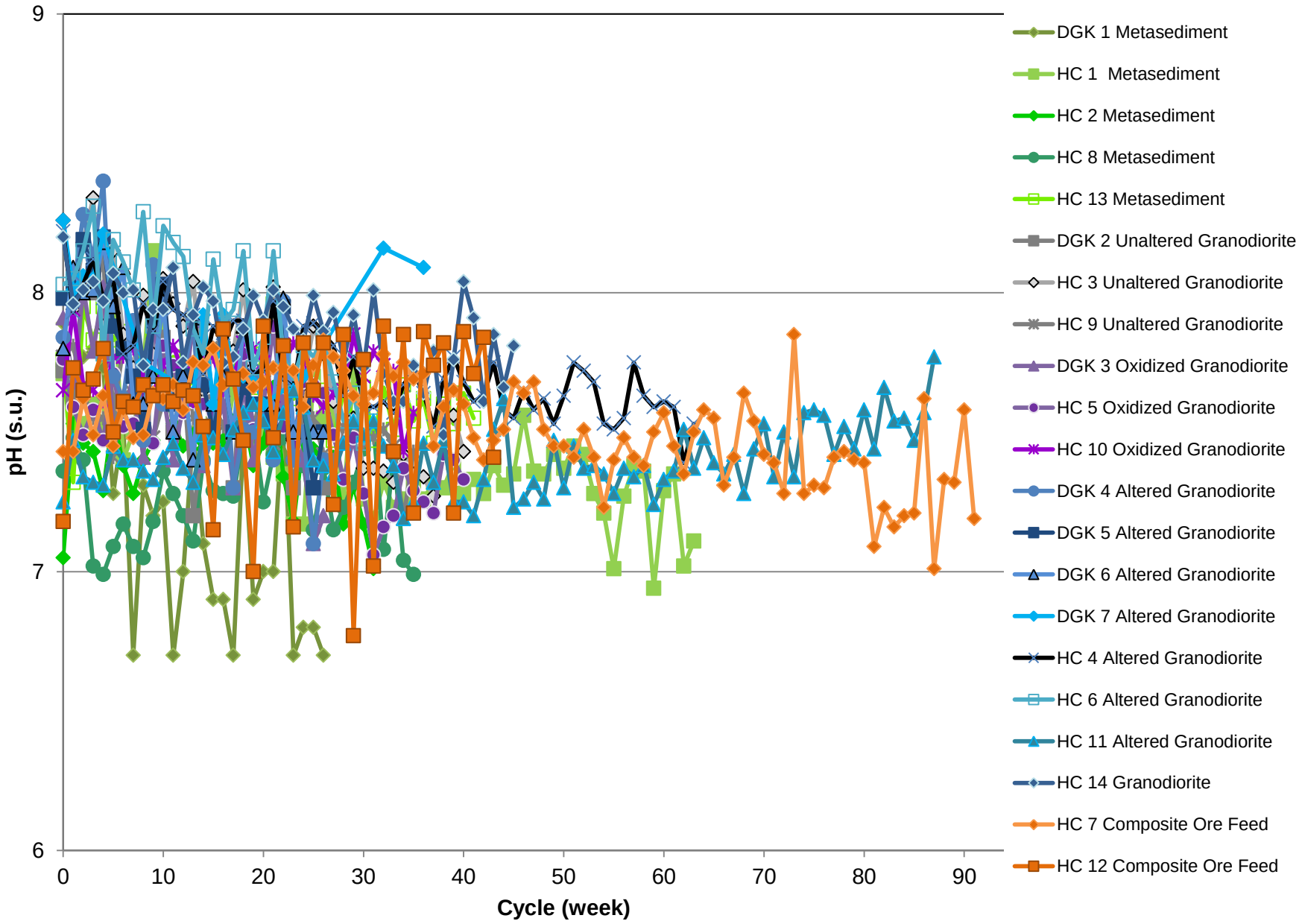
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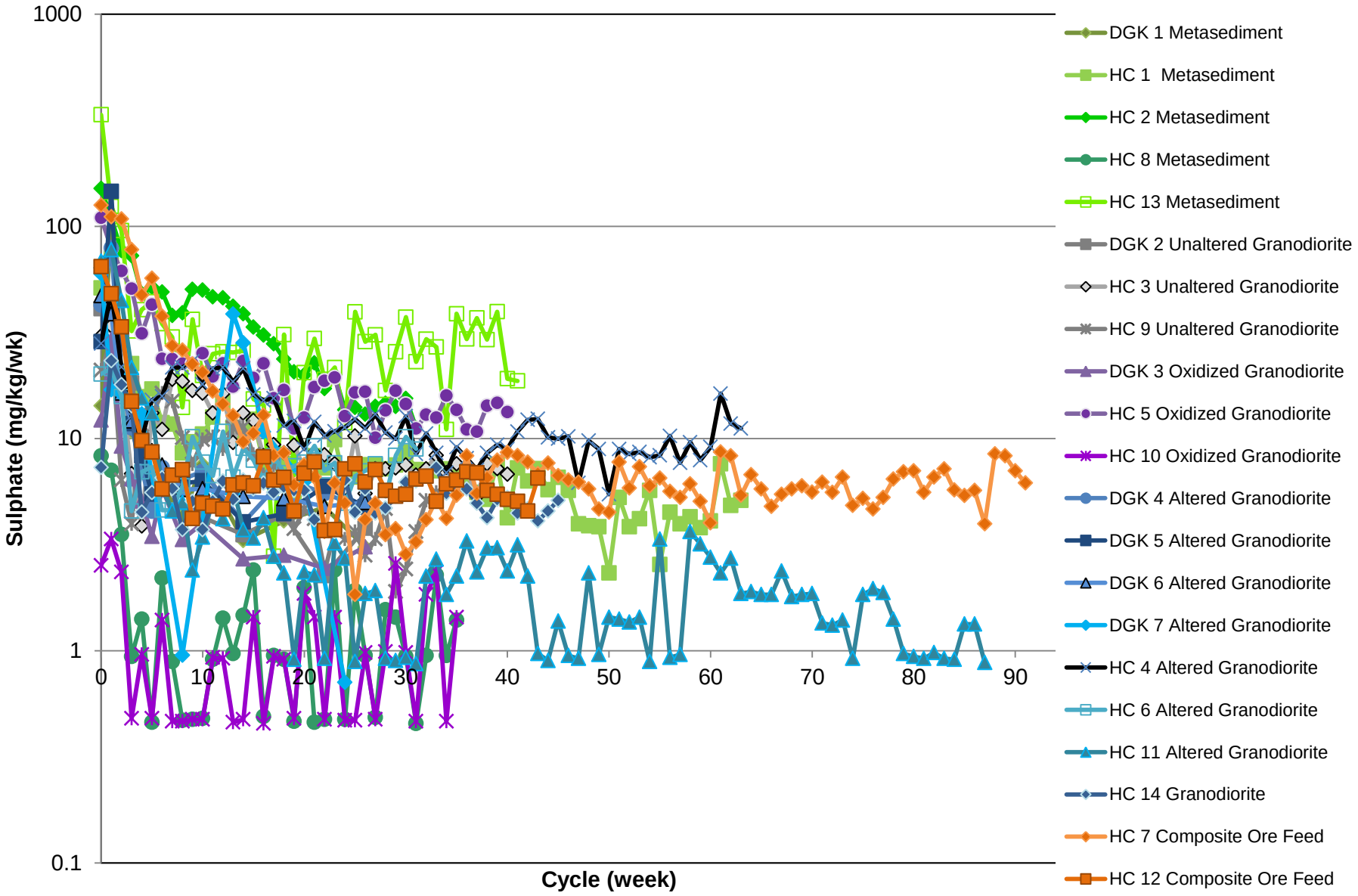
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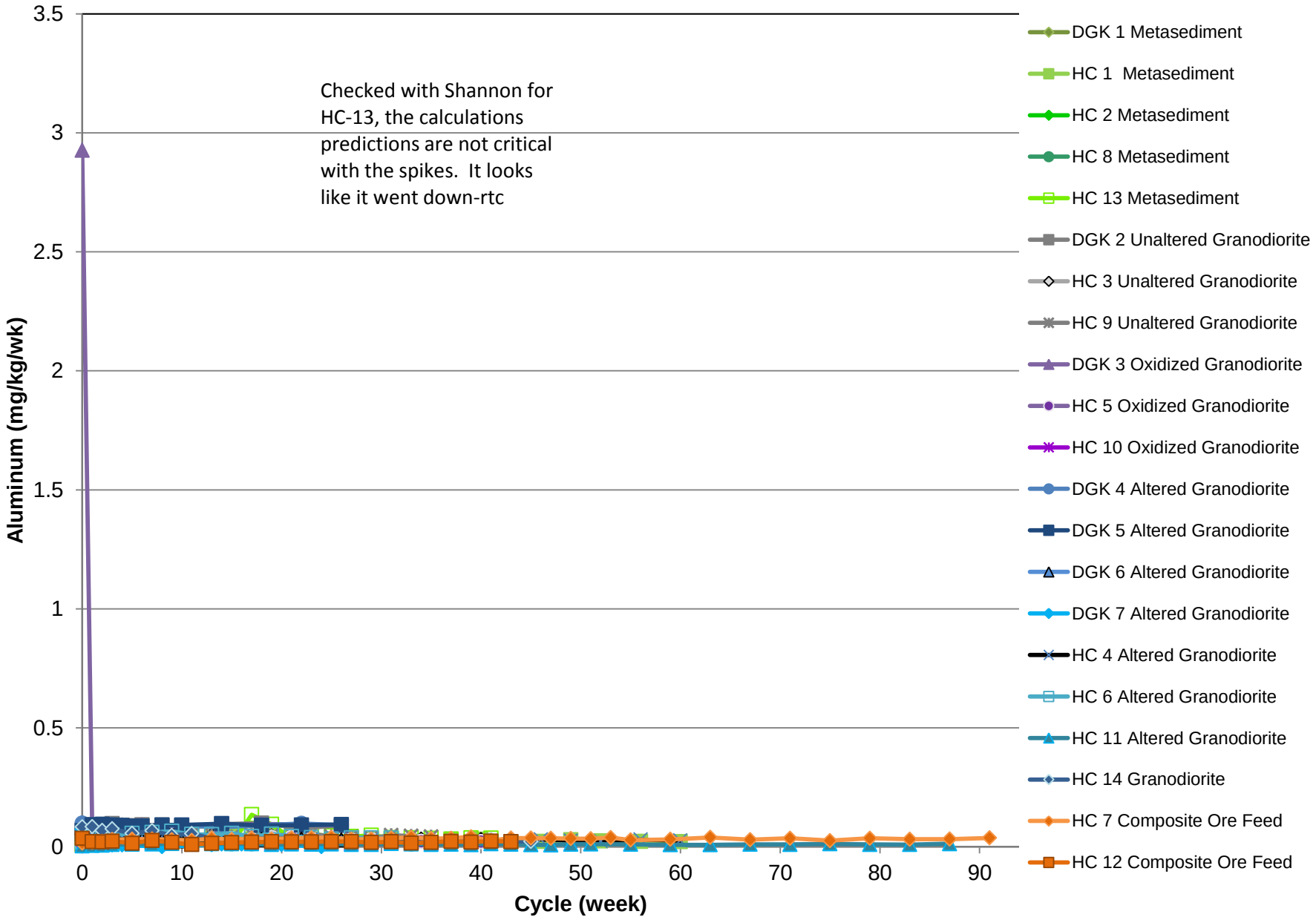


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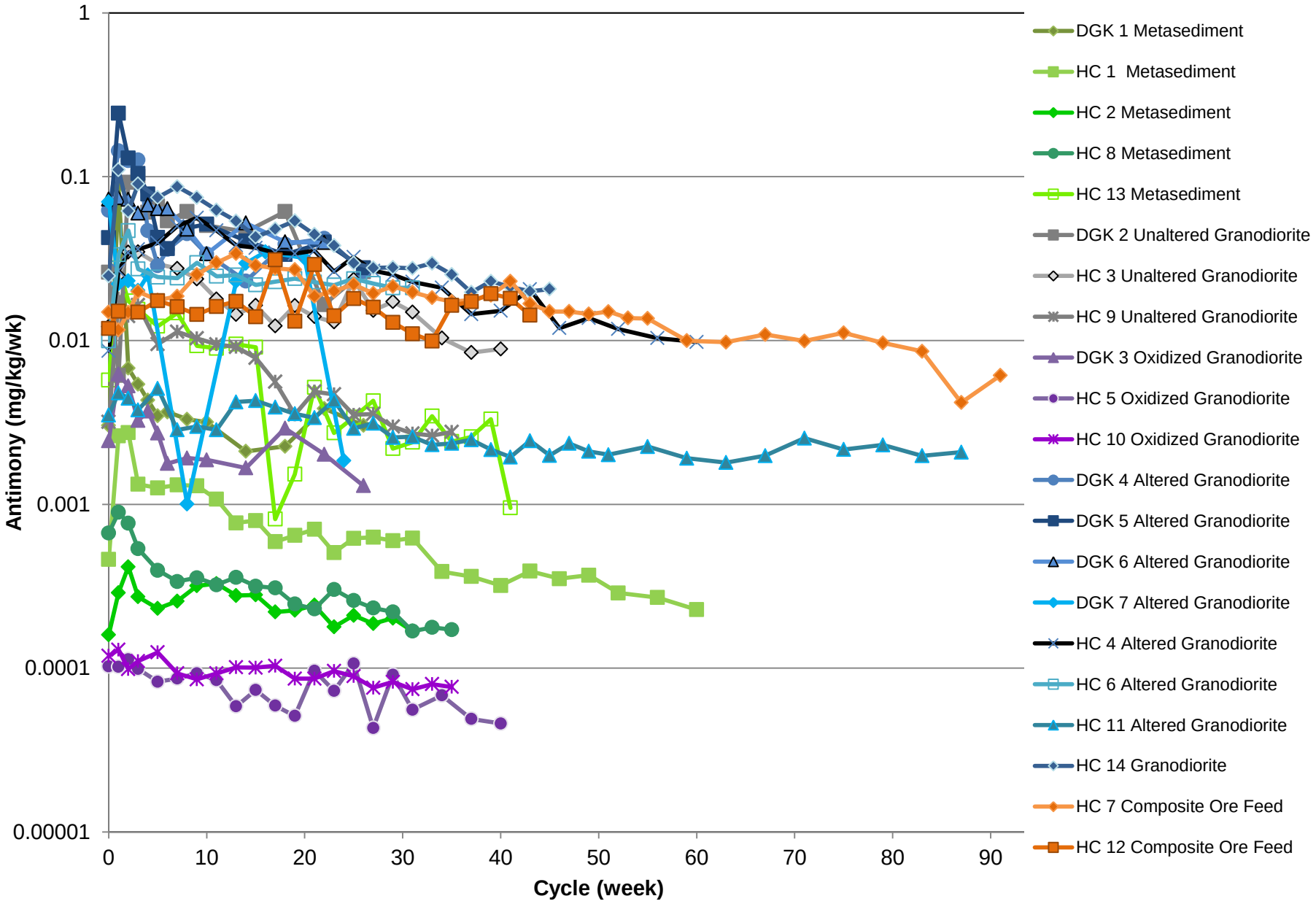


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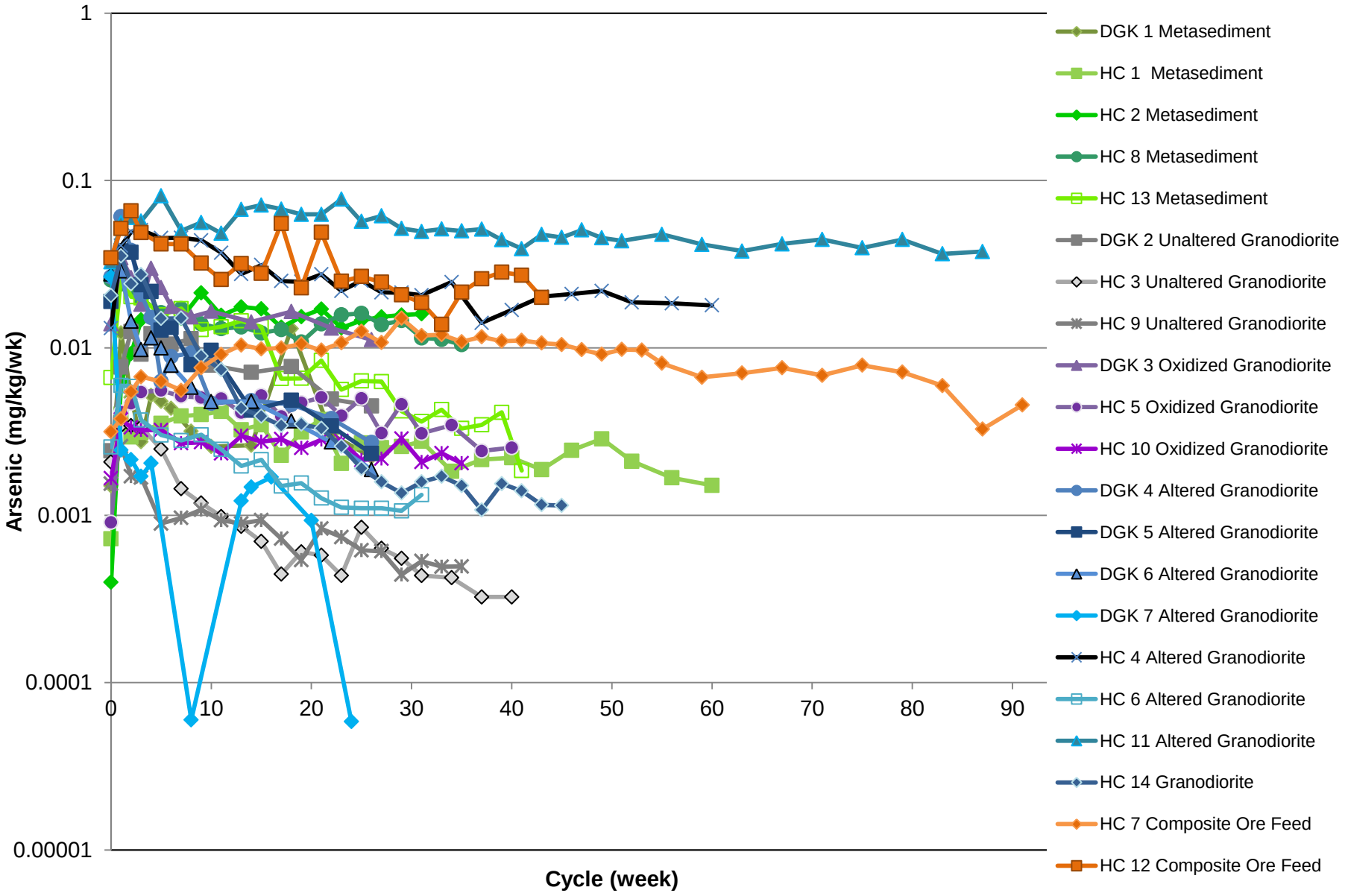

1000
100
10
1
0.1
Sulphate (mg/kg/wk)
0
10
20
30
40
50
60
70
80
90
Cycle (week)
DGK 1 Metasediment
HC 1 Metasediment
HC 2 Metasediment
HC 8 Metasediment
HC 13 Metasediment
DGK 2 Unaltered Granodiorite
HC 3 Unaltered Granodiorite
HC 9 Unaltered Granodiorite
DGK 3 Oxidized Granodiorite
HC 5 Oxidized Granodiorite
HC 10 Oxidized Granodiorite
DGK 4 Altered Granodiorite
DGK 5 Altered Granodiorite
DGK 6 Altered Granodiorite
DGK 7 Altered Granodiorite
HC 4 Altered Granodiorite
HC 6 Altered Granodiorite
HC 11 Altered Granodiorite
HC 14 Granodiorite
HC 7 Composite Ore Feed
HC 12 Composite Ore Feed

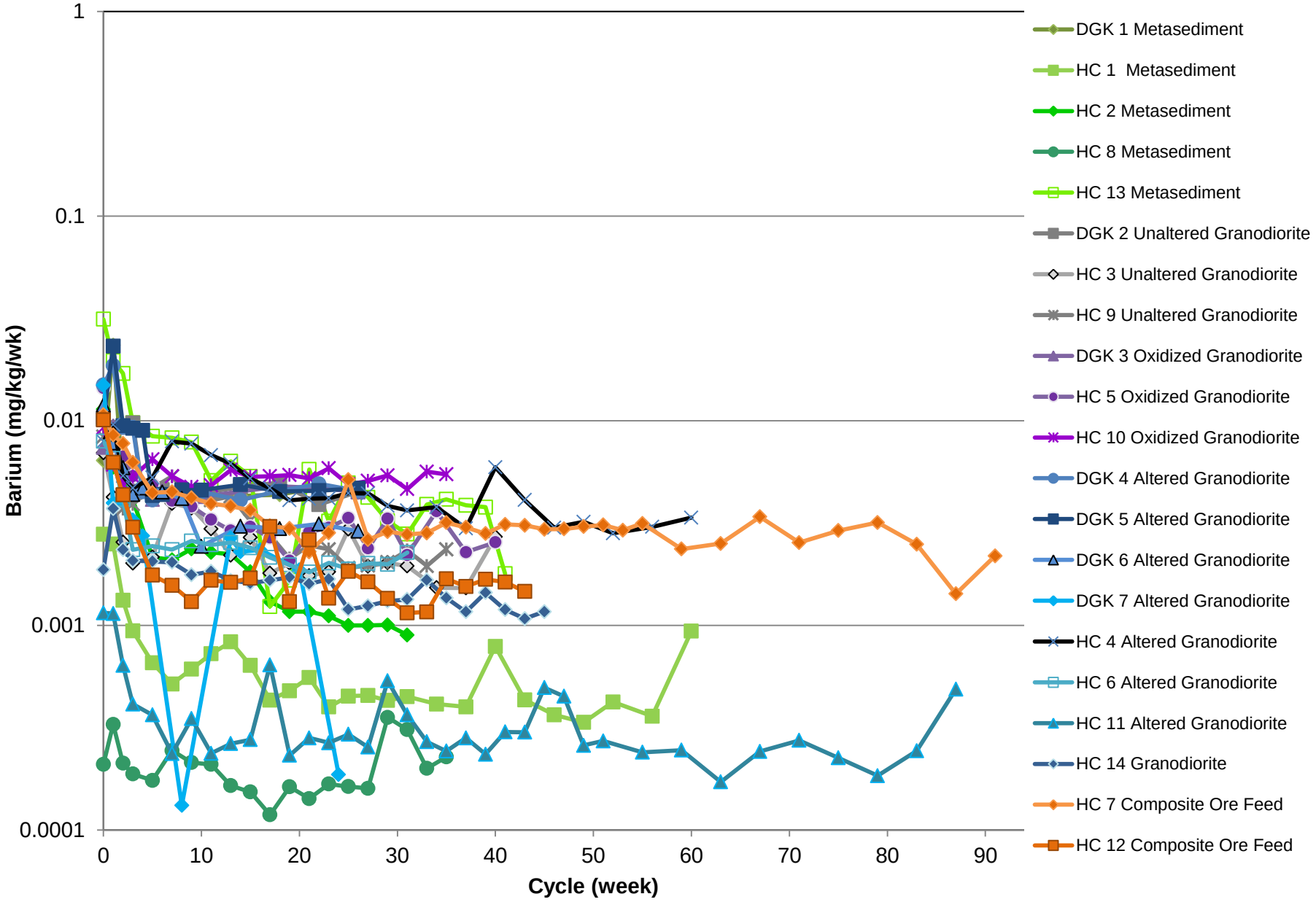


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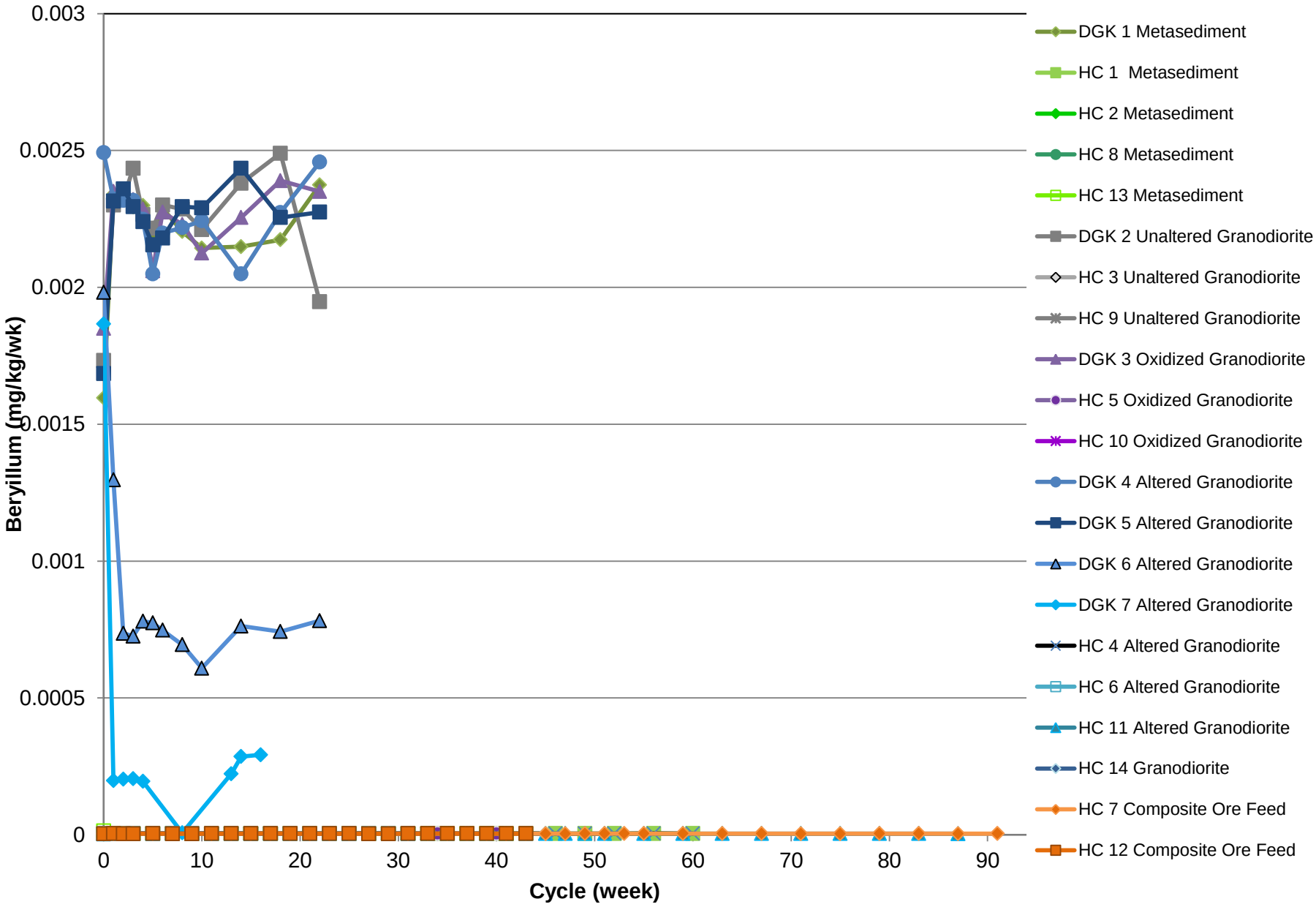


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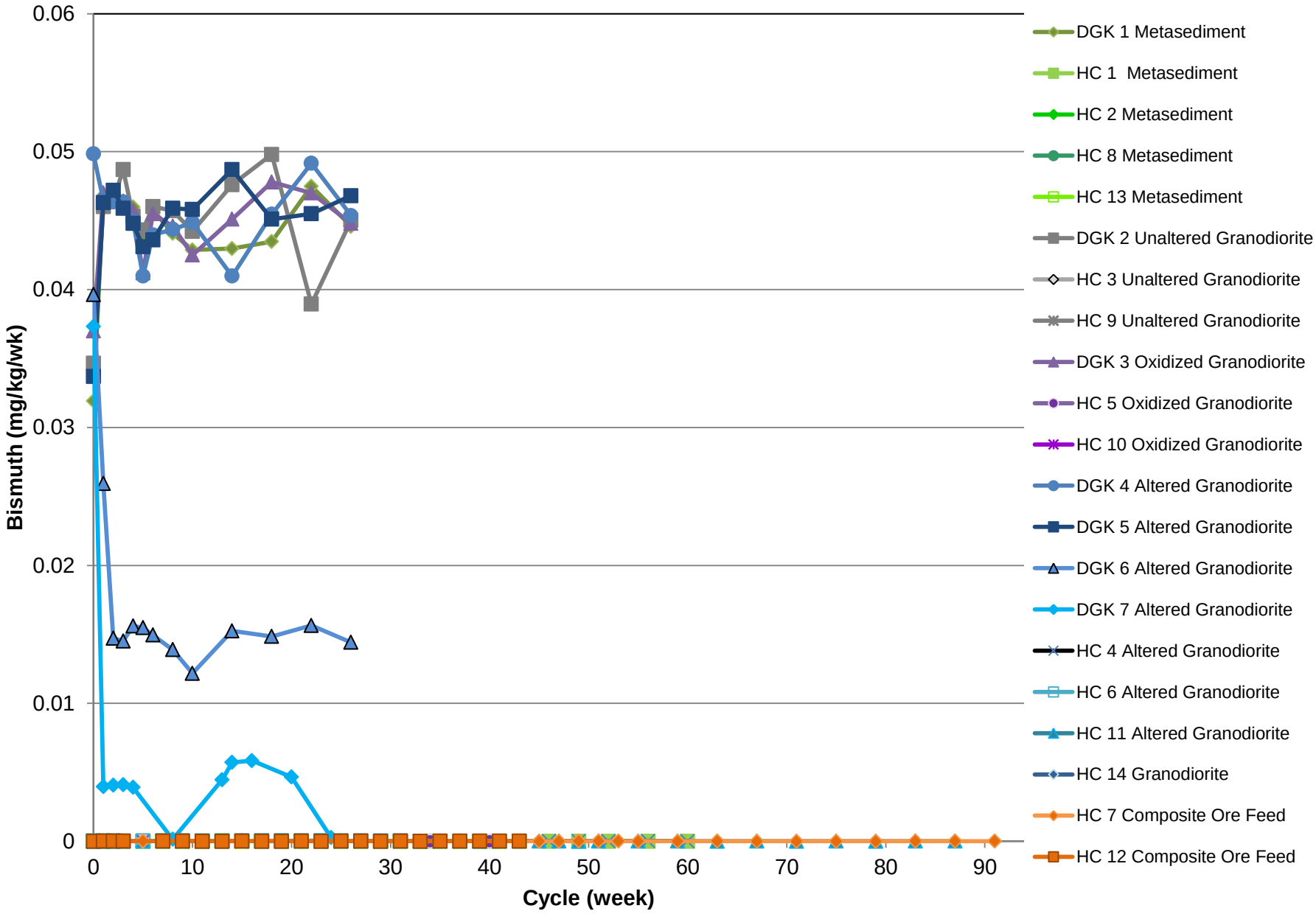

1
0.1
0.01
0.001
0.0001
0.00001
Arsenic (mg/kg/wk)
0
10
20
30
40
50
60
70
80
90
Cycle (week)
DGK 1 Metasediment
HC 1 Metasediment
HC 2 Metasediment
HC 8 Metasediment
HC 13 Metasediment
DGK 2 Unaltered Granodiorite
HC 3 Unaltered Granodiorite
HC 9 Unaltered Granodiorite
DGK 3 Oxidized Granodiorite
HC 5 Oxidized Granodiorite
HC 10 Oxidized Granodiorite
DGK 4 Altered Granodiorite
DGK 5 Altered Granodiorite
DGK 6 Altered Granodiorite
DGK 7 Altered Granodiorite
HC 4 Altered Granodiorite
HC 6 Altered Granodiorite
HC 11 Altered Granodiorite
HC 14 Granodiorite
HC 7 Composite Ore Feed
HC 12 Composite Ore Feed



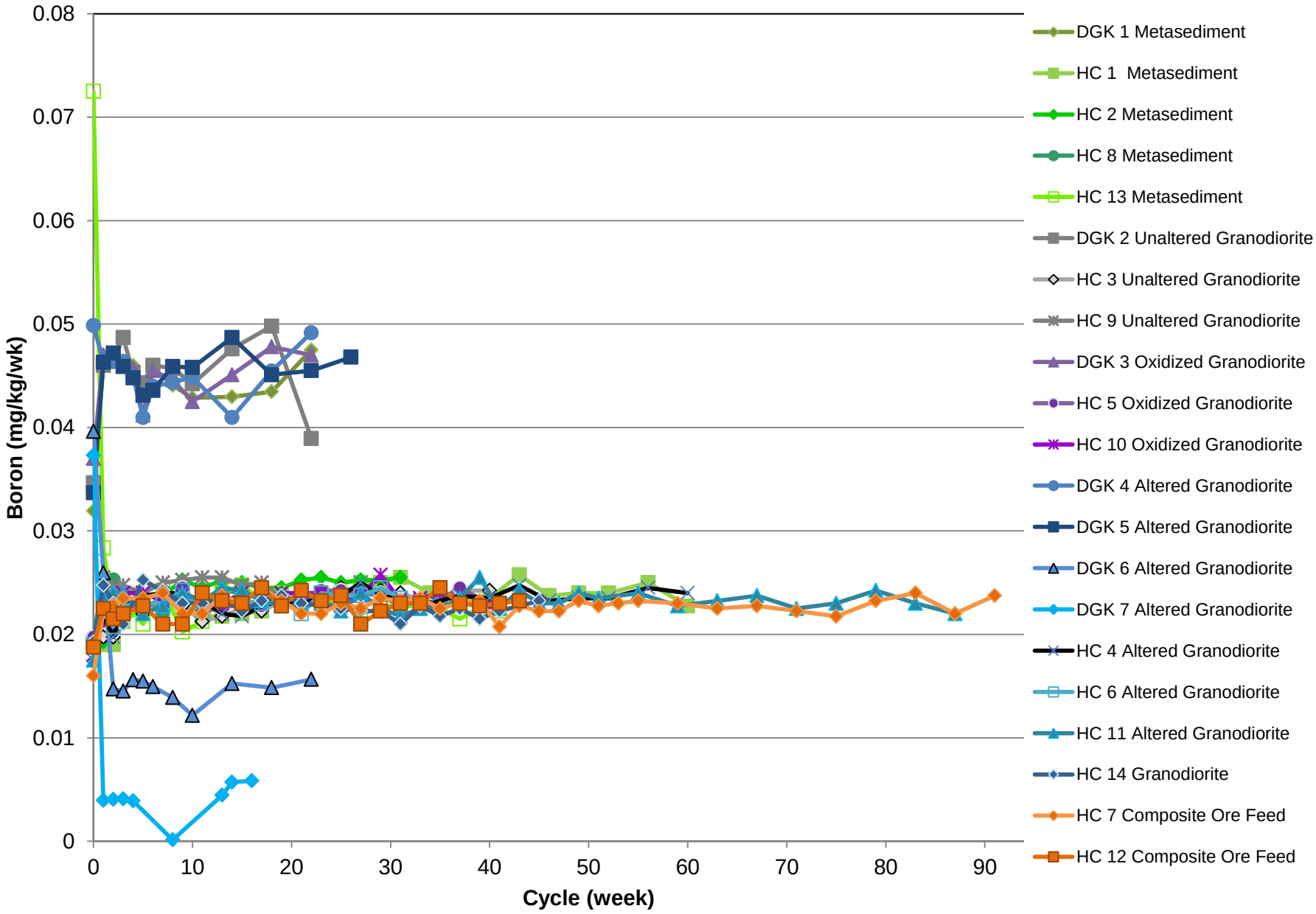
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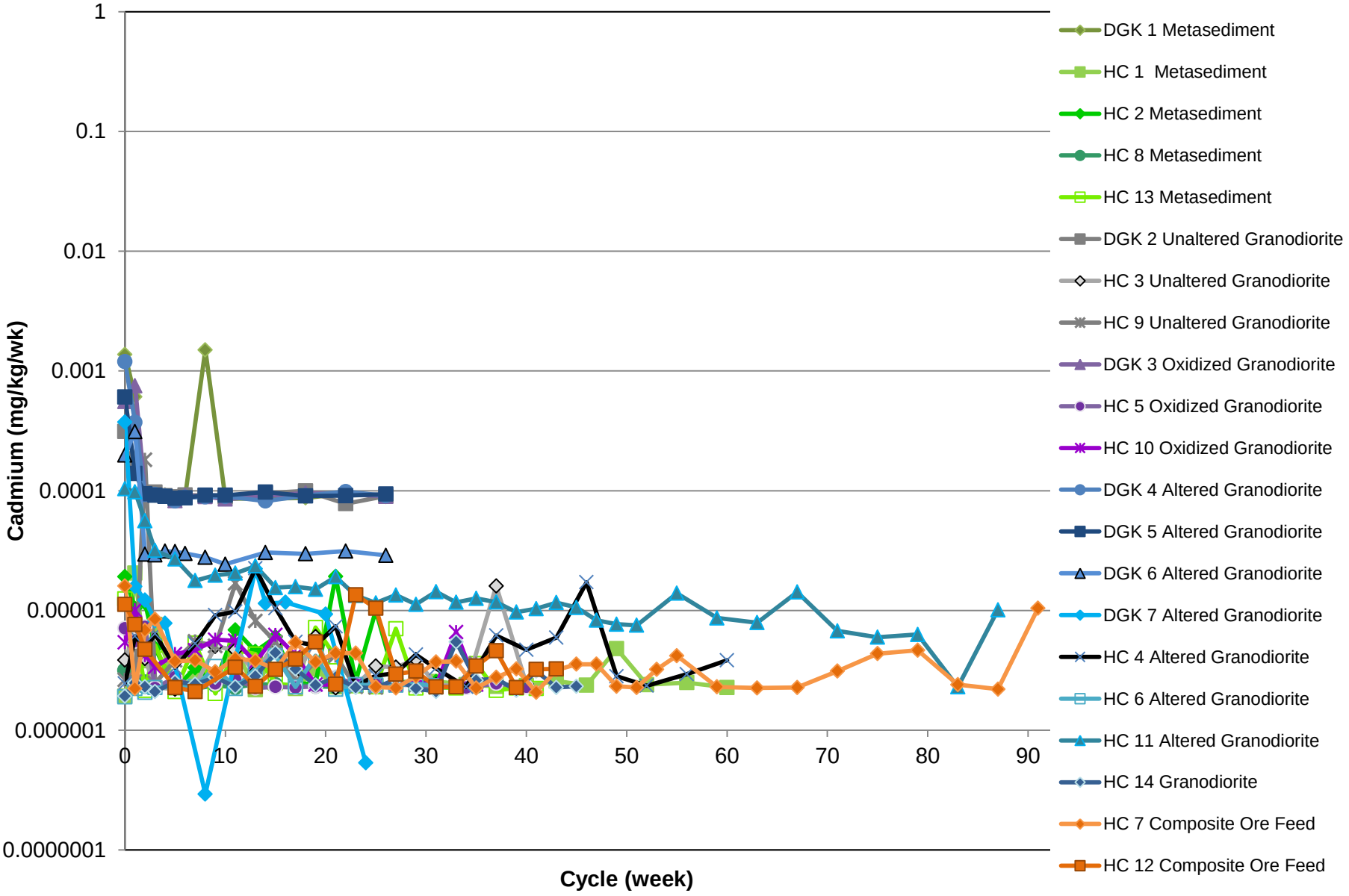
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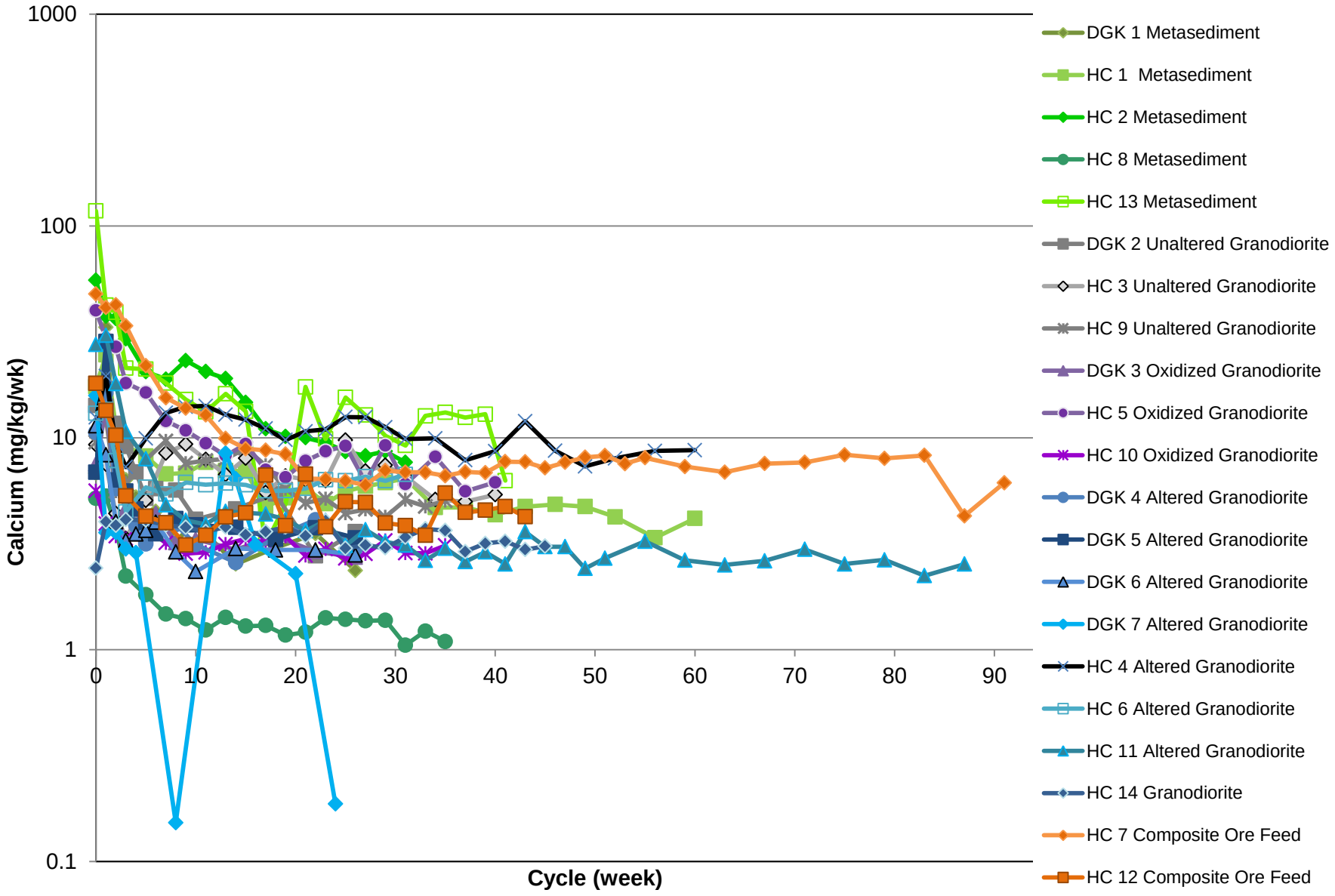


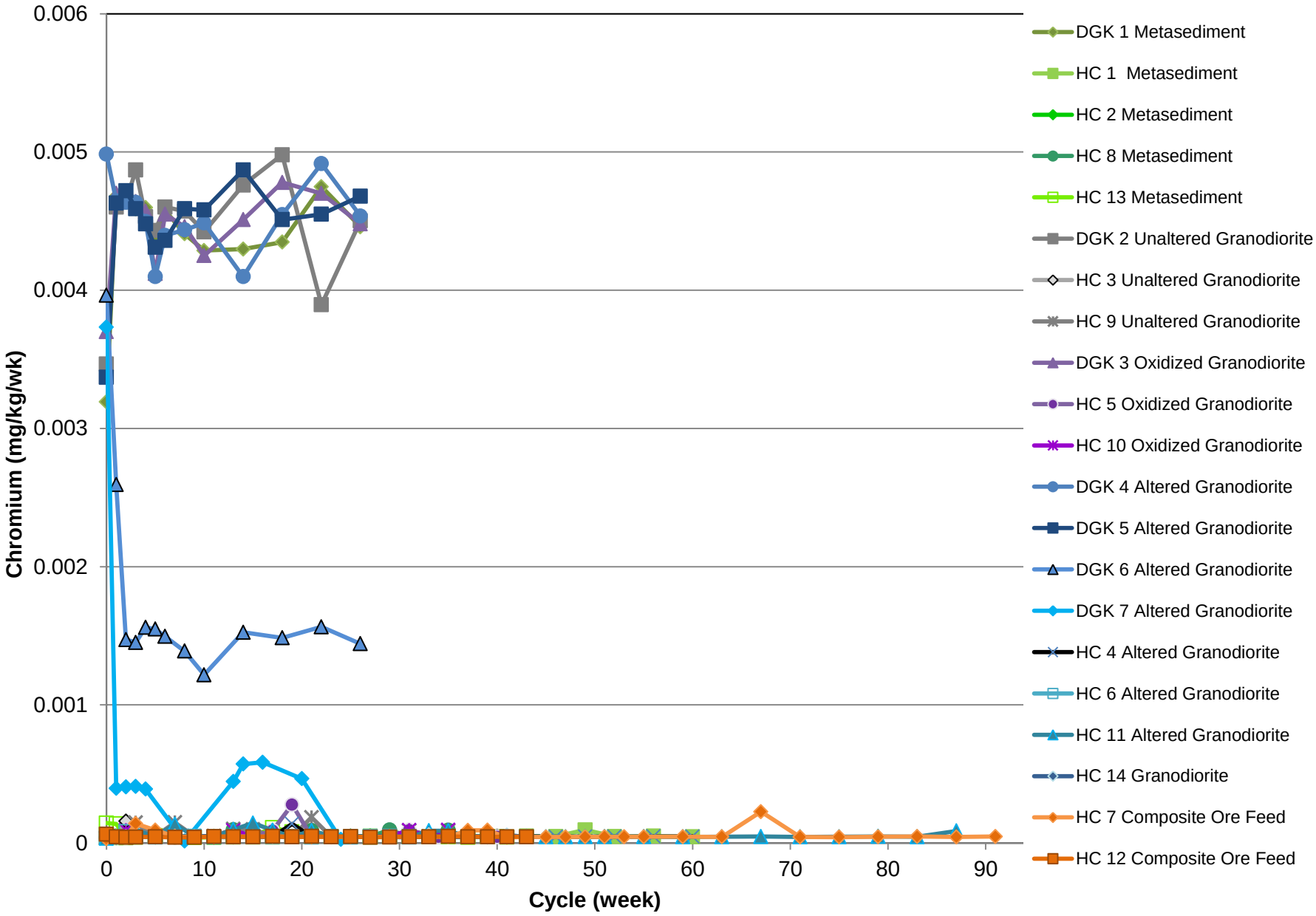
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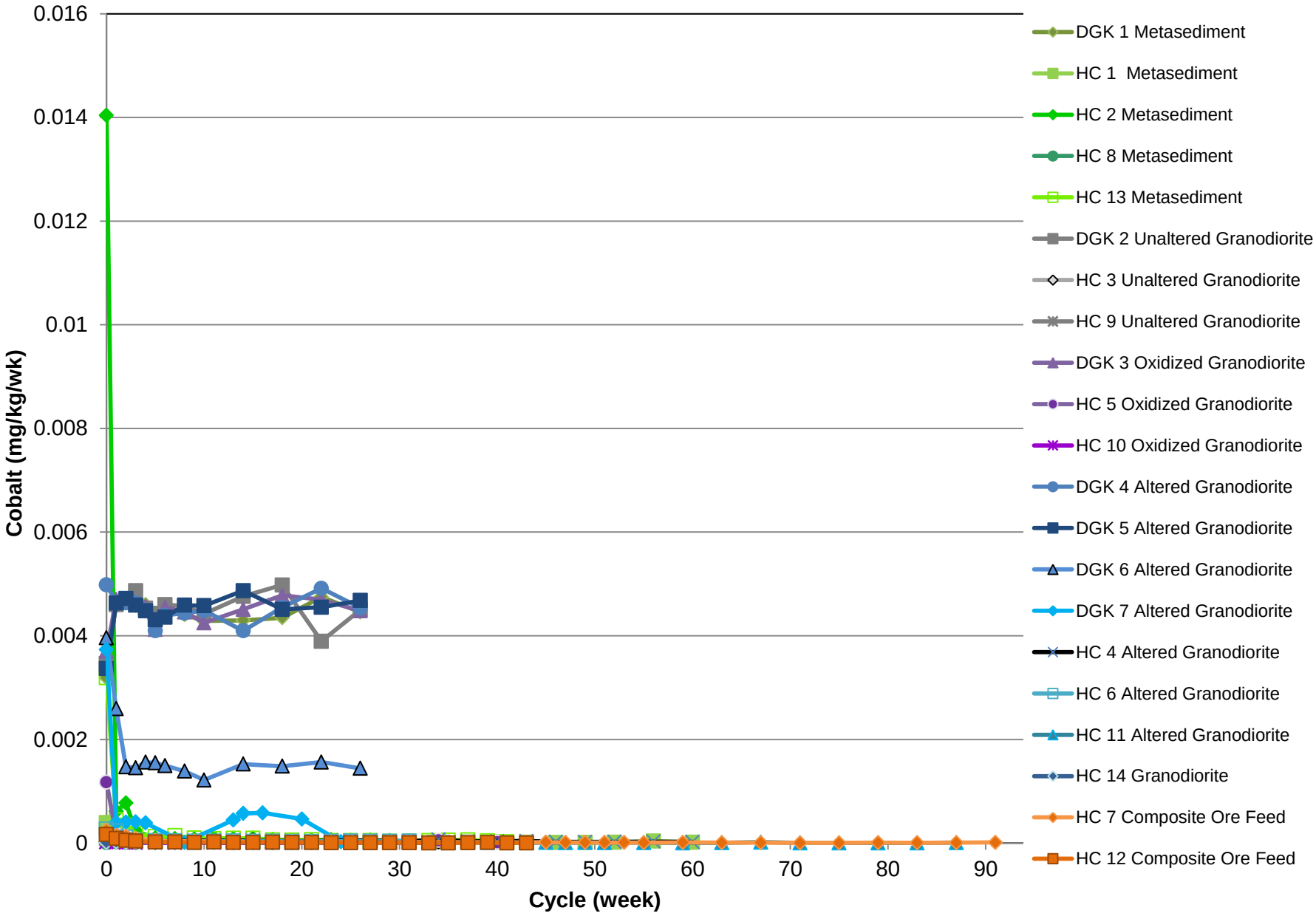
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1
0.1
0.01
0.001
0.0001
0.00001
0.000001
0.0000001
Cadmium (mg/kg/wk)
0
10
20
30
40
50
60
70
80
90
Cycle (week)
DGK 1 Metasediment
HC 1 Metasediment
HC 2 Metasediment
HC 8 Metasediment
HC 13 Metasediment
DGK 2 Unaltered Granodiorite
HC 3 Unaltered Granodiorite
HC 9 Unaltered Granodiorite
DGK 3 Oxidized Granodiorite
HC 5 Oxidized Granodiorite
HC 10 Oxidized Granodiorite
DGK 4 Altered Granodiorite
DGK 5 Altered Granodiorite
DGK 6 Altered Granodiorite
DGK 7 Altered Granodiorite
HC 4 Altered Granodiorite
HC 6 Altered Granodiorite
HC 11 Altered Granodiorite
HC 14 Granodiorite
HC 7 Composite Ore Feed
HC 12 Composite Ore Feed

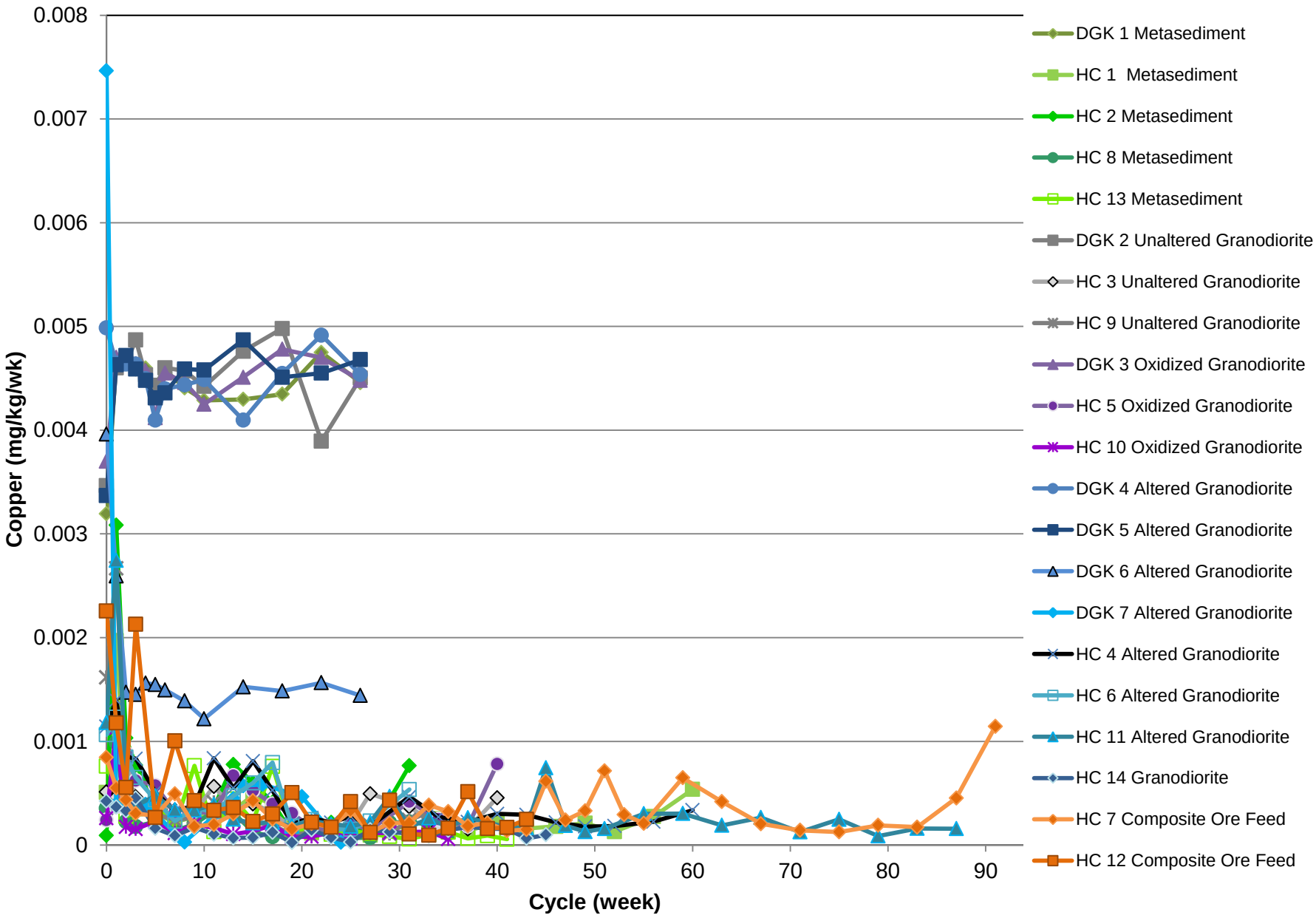

1000
100
10
1
0.1
Calcium (mg/kg/wk)
0
10
20
30
40
50
60
70
80
90
Cycle (week)
DGK 1 Metasediment
HC 1 Metasediment
HC 2 Metasediment
HC 8 Metasediment
HC 13 Metasediment
DGK 2 Unaltered Granodiorite
HC 3 Unaltered Granodiorite
HC 9 Unaltered Granodiorite
DGK 3 Oxidized Granodiorite
HC 5 Oxidized Granodiorite
HC 10 Oxidized Granodiorite
DGK 4 Altered Granodiorite
DGK 5 Altered Granodiorite
DGK 6 Altered Granodiorite
DGK 7 Altered Granodiorite
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HC 14 Granodiorite
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HC 12 Composite Ore Feed



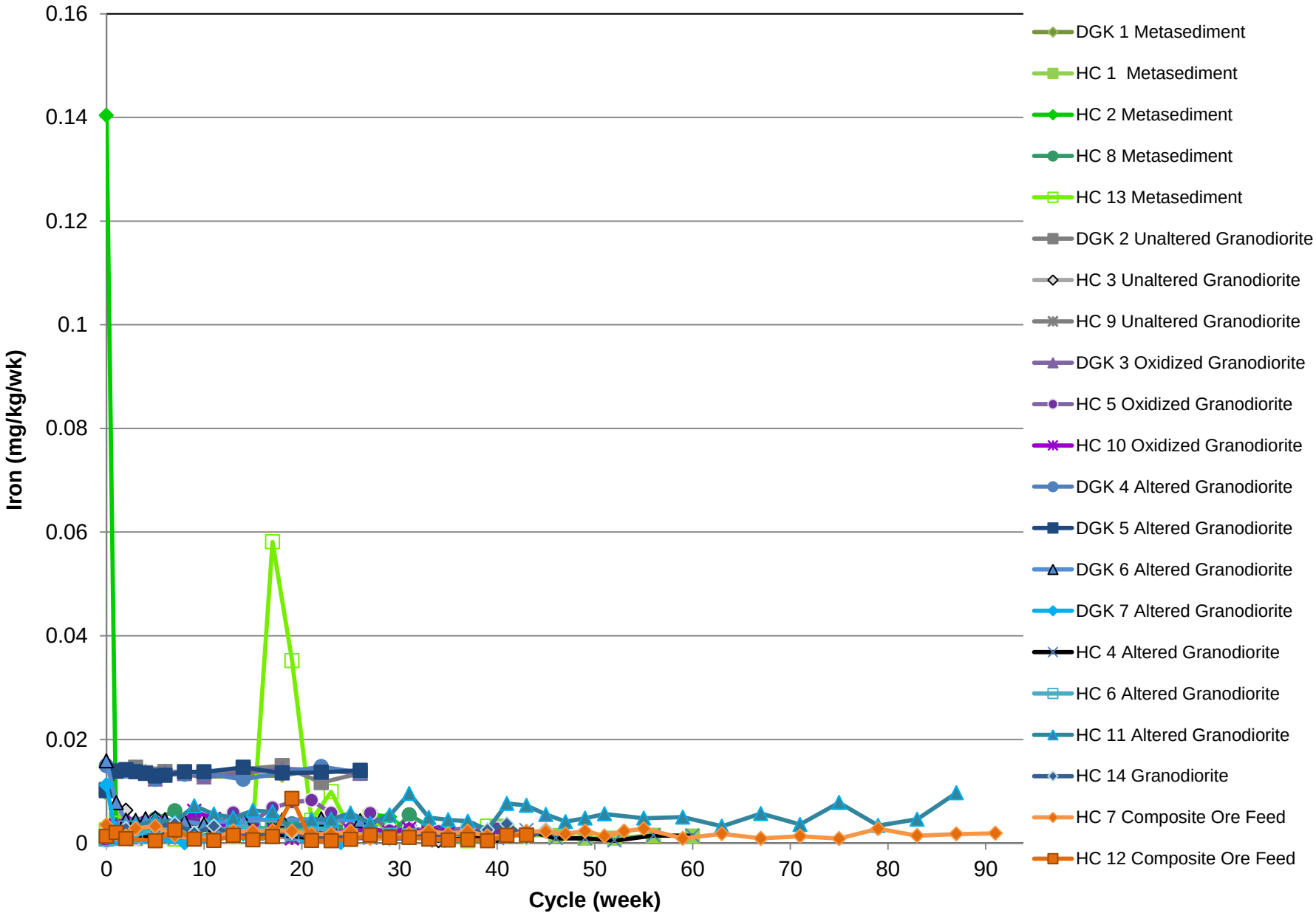
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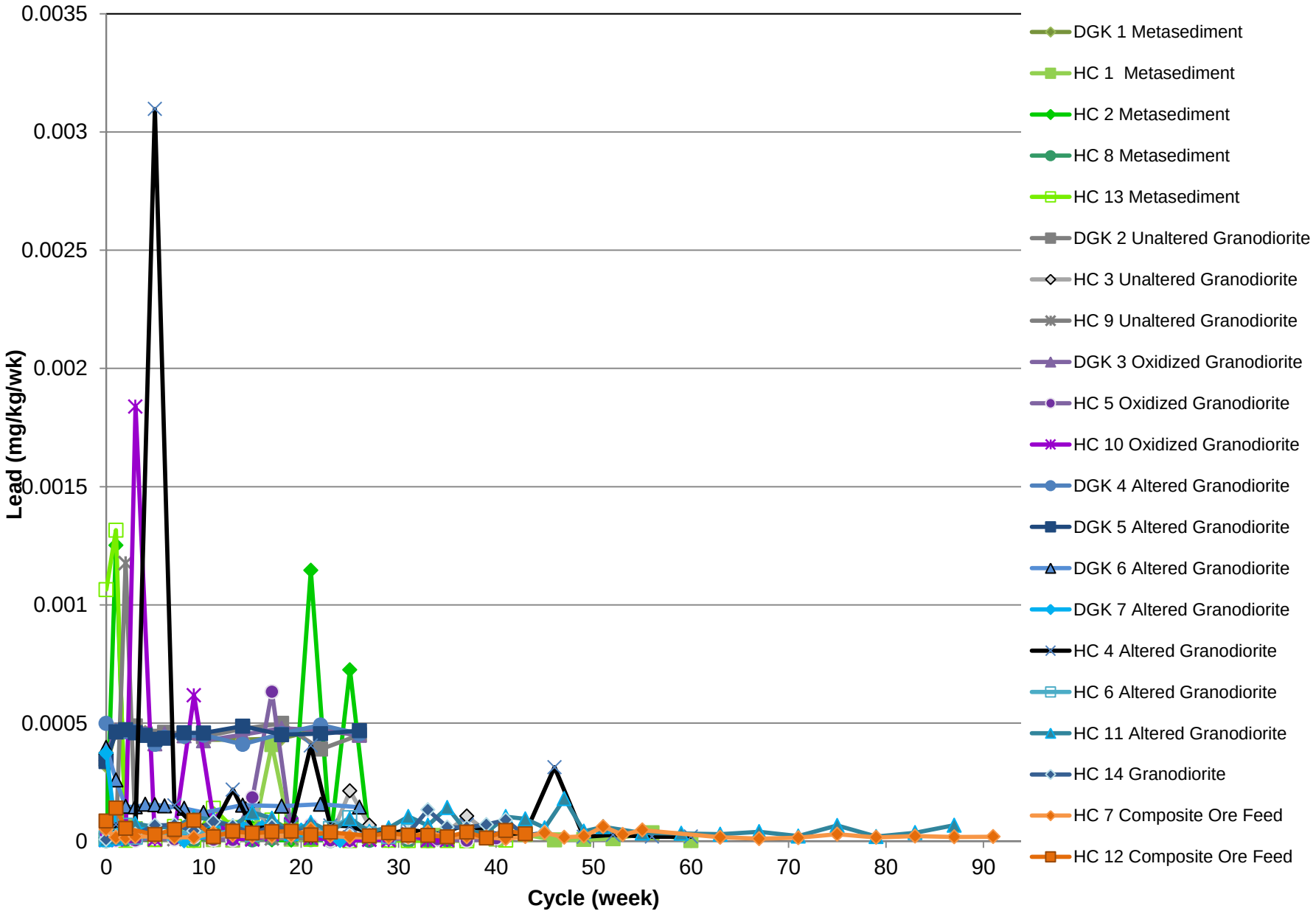
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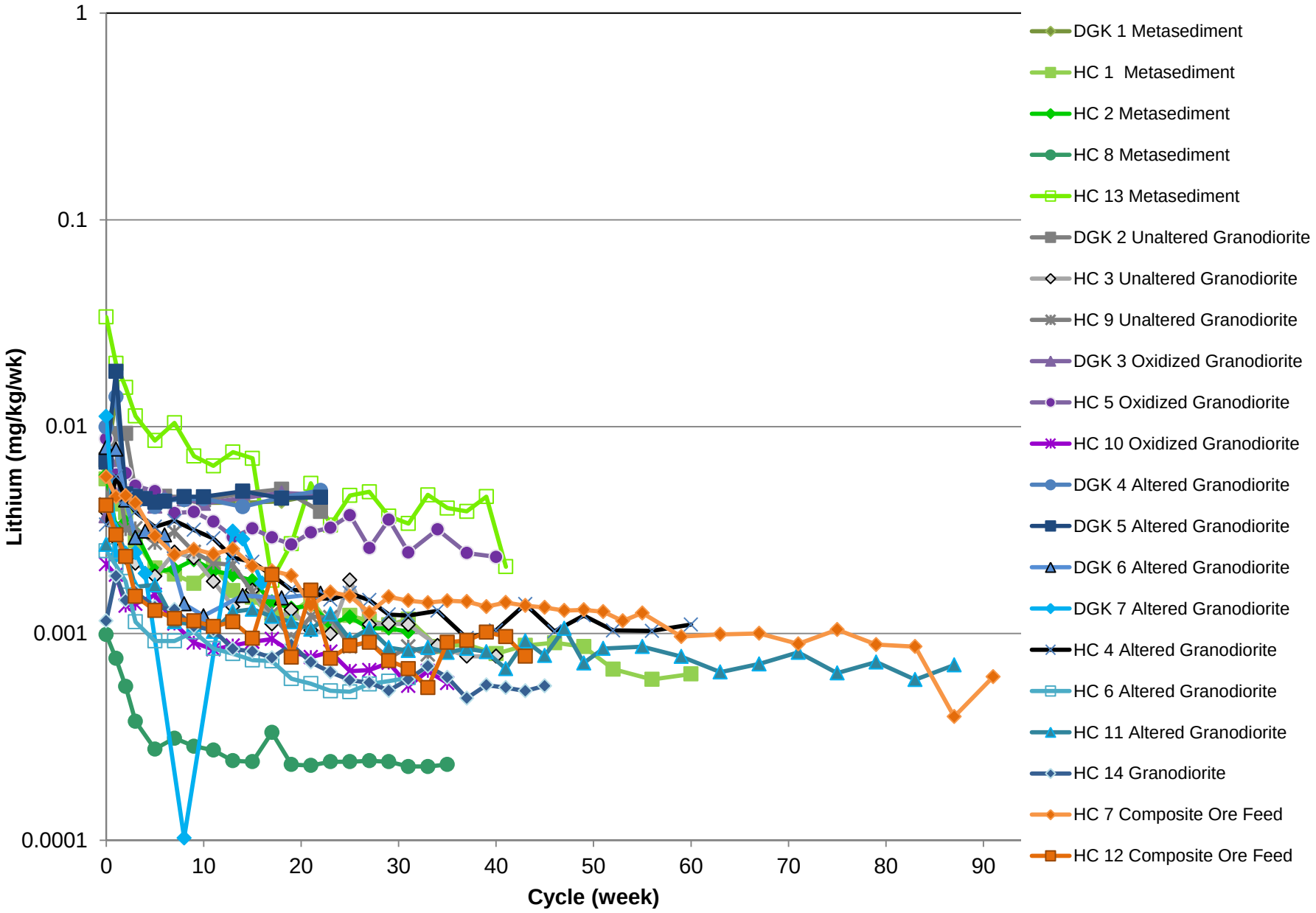
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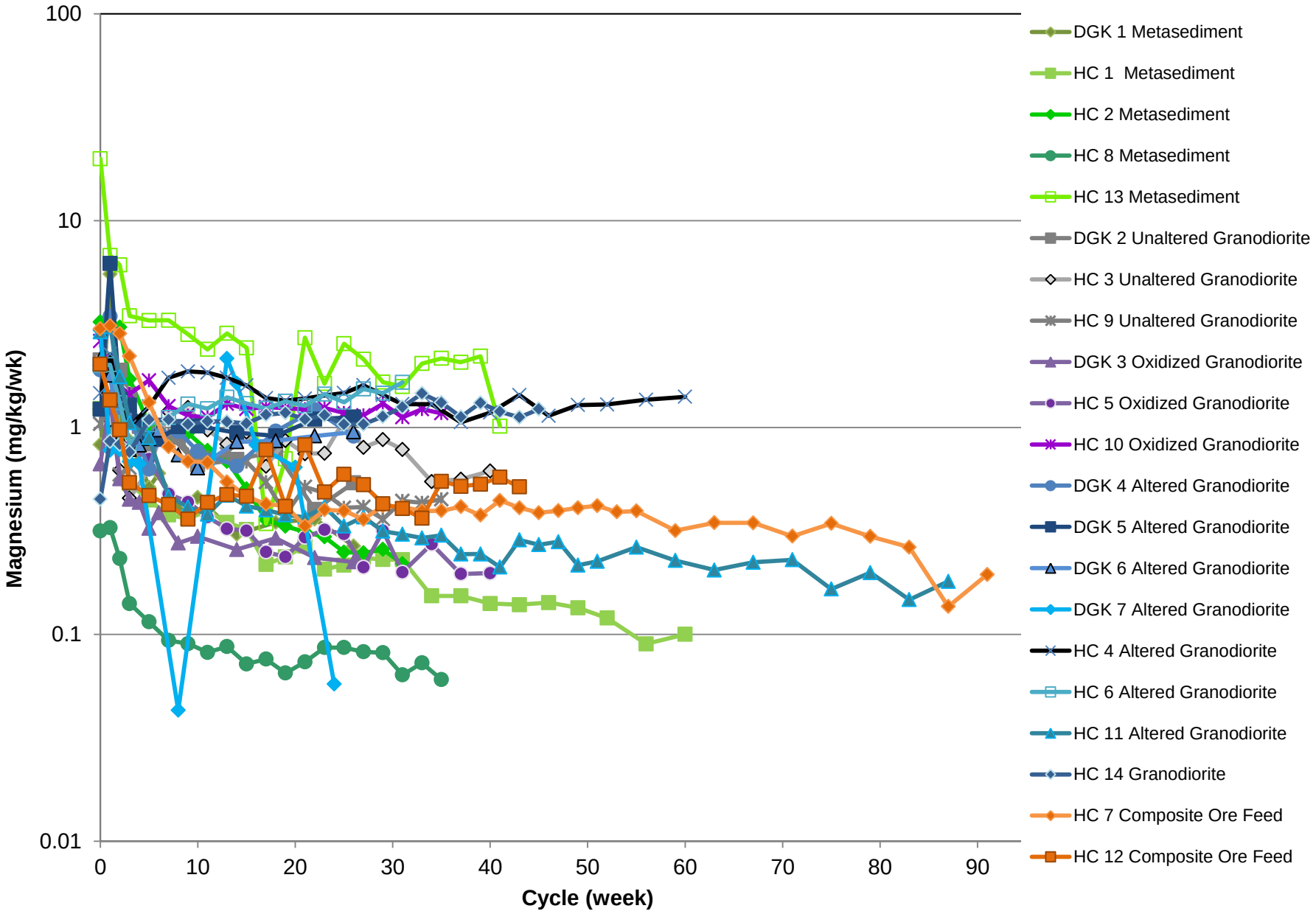
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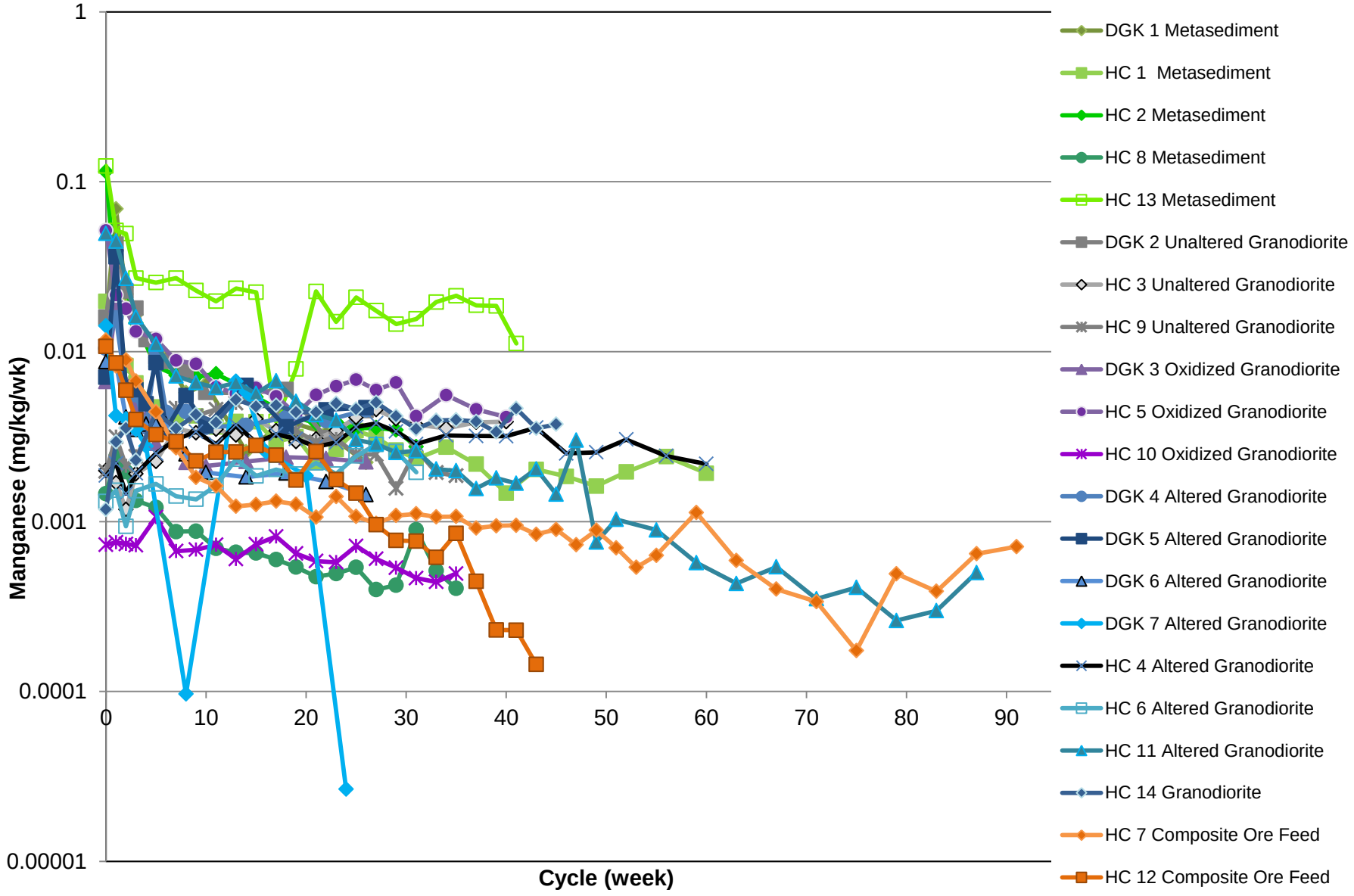


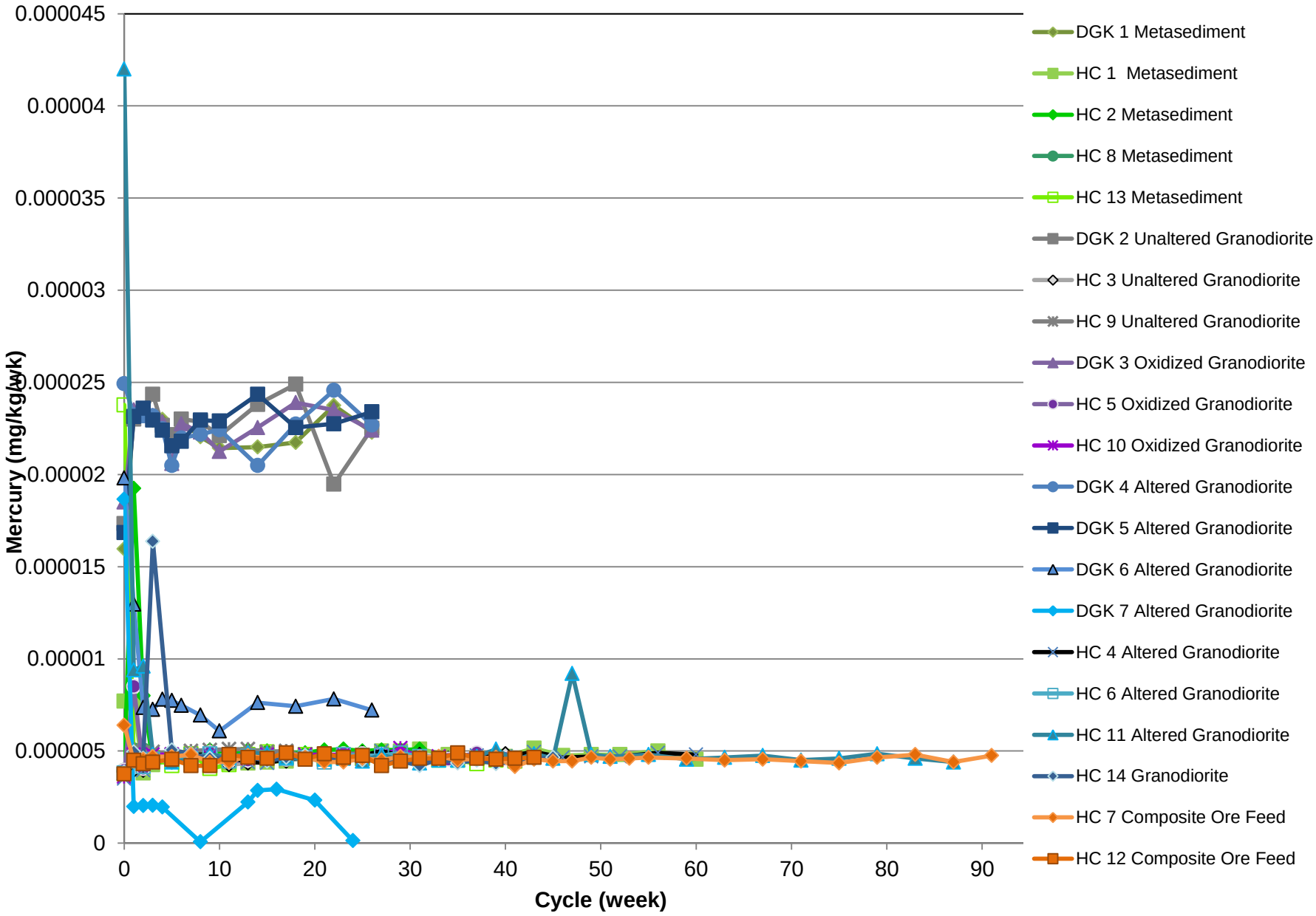
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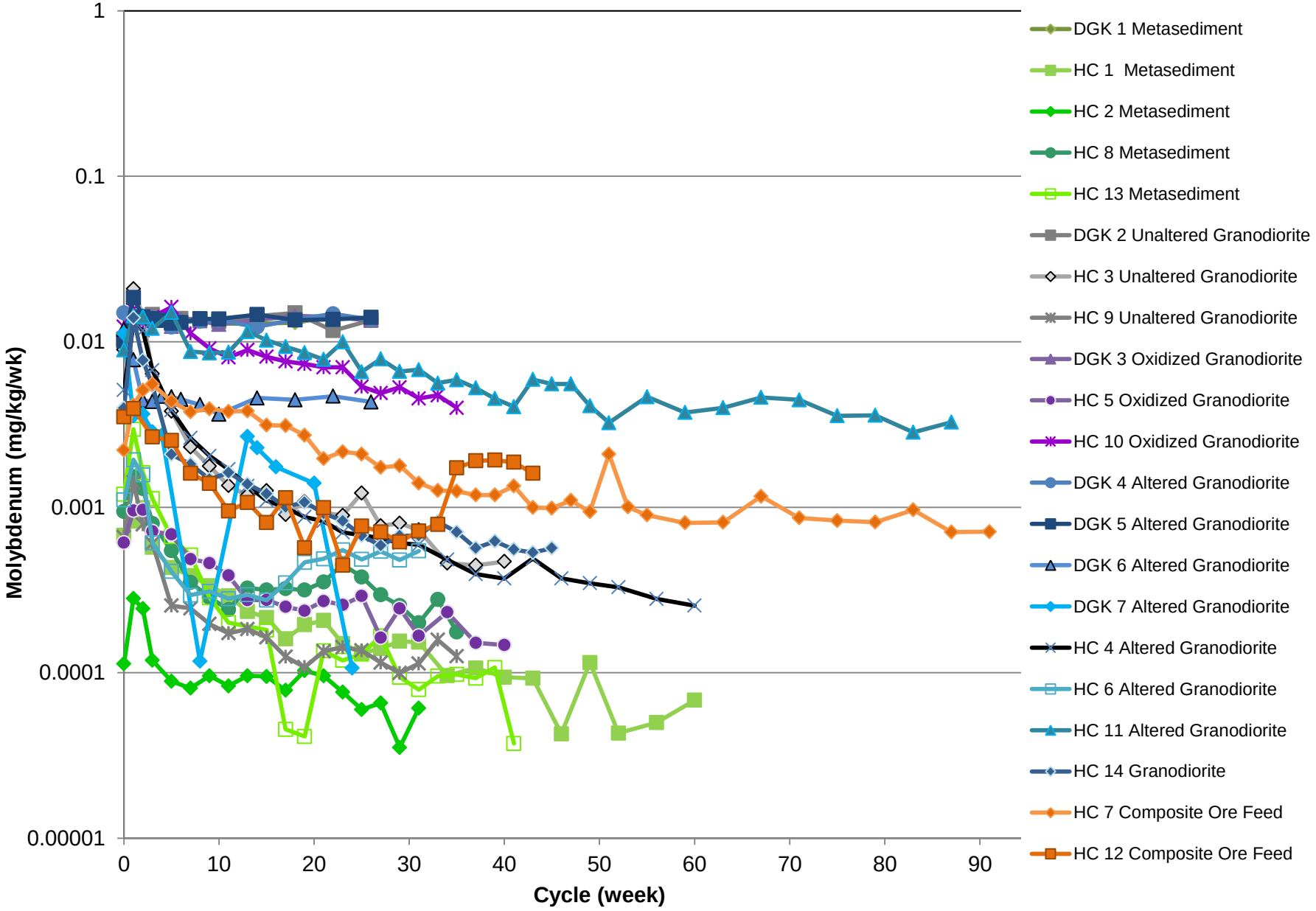
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100
10
1
0.1
0.01
Magnesium (mg/kg/wk)
0
10
20
30
40
50
60
70
80
90
Cycle (week)
DGK 1 Metasediment
HC 1 Metasediment
HC 2 Metasediment
HC 8 Metasediment
HC 13 Metasediment
DGK 2 Unaltered Granodiorite
HC 3 Unaltered Granodiorite
HC 9 Unaltered Granodiorite
DGK 3 Oxidized Granodiorite
HC 5 Oxidized Granodiorite
HC 10 Oxidized Granodiorite
DGK 4 Altered Granodiorite
DGK 5 Altered Granodiorite
DGK 6 Altered Granodiorite
DGK 7 Altered Granodiorite
HC 4 Altered Granodiorite
HC 6 Altered Granodiorite
HC 11 Altered Granodiorite
HC 14 Granodiorite
HC 7 Composite Ore Feed
HC 12 Composite Ore Feed

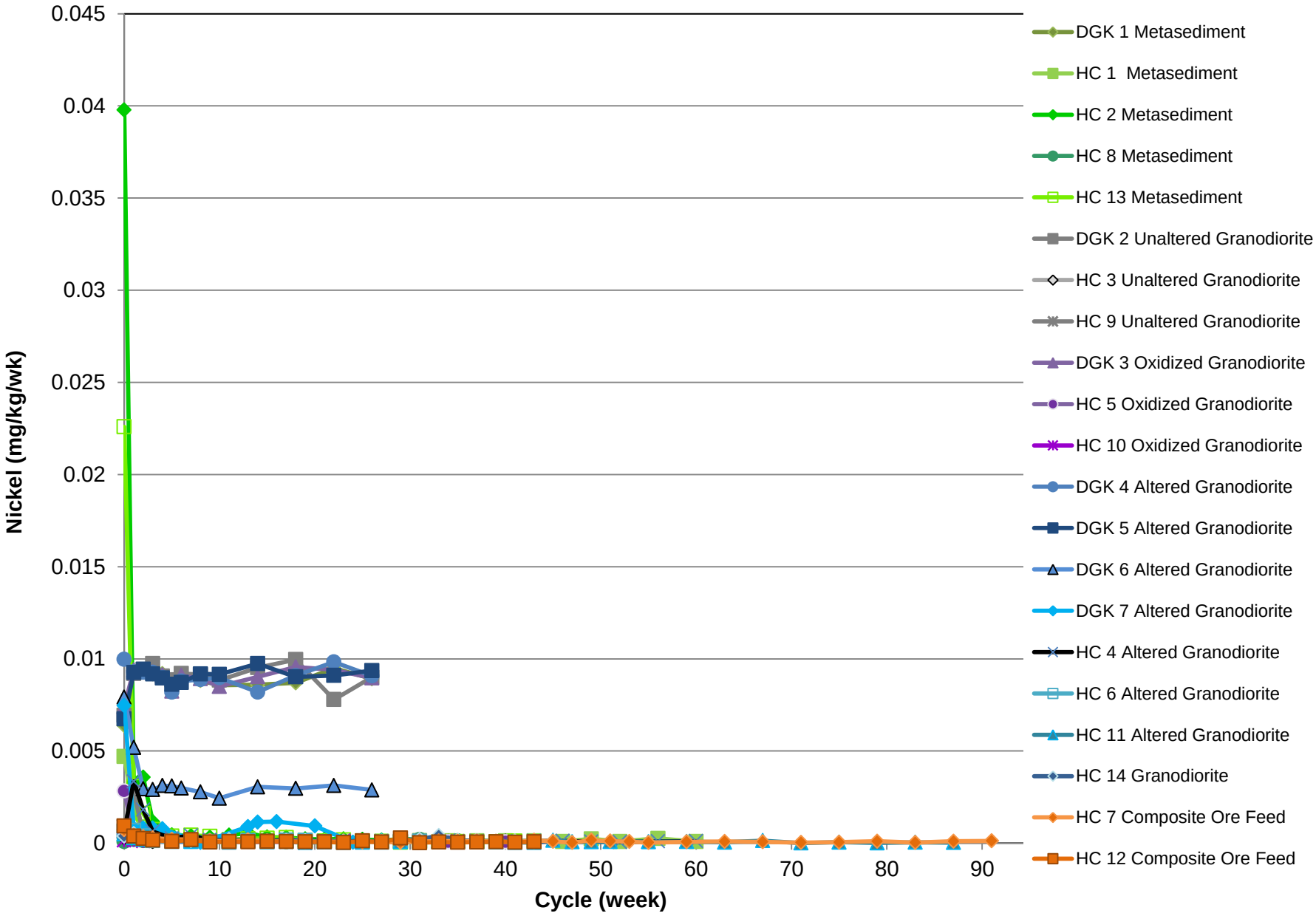

1
0.1
0.01
0.001
0.0001
0.00001
Manganese (mg/kg/wk)
0
10
20
30
40
50
60
70
80
90
Cycle (week)
DGK 1 Metasediment
HC 1 Metasediment
HC 2 Metasediment
HC 8 Metasediment
HC 13 Metasediment
DGK 2 Unaltered Granodiorite
HC 3 Unaltered Granodiorite
HC 9 Unaltered Granodiorite
DGK 3 Oxidized Granodiorite
HC 5 Oxidized Granodiorite
HC 10 Oxidized Granodiorite
DGK 4 Altered Granodiorite
DGK 5 Altered Granodiorite
DGK 6 Altered Granodiorite
DGK 7 Altered Granodiorite
HC 4 Altered Granodiorite
HC 6 Altered Granodiorite
HC 11 Altered Granodiorite
HC 14 Granodiorite
HC 7 Composite Ore Feed
HC 12 Composite Ore Feed



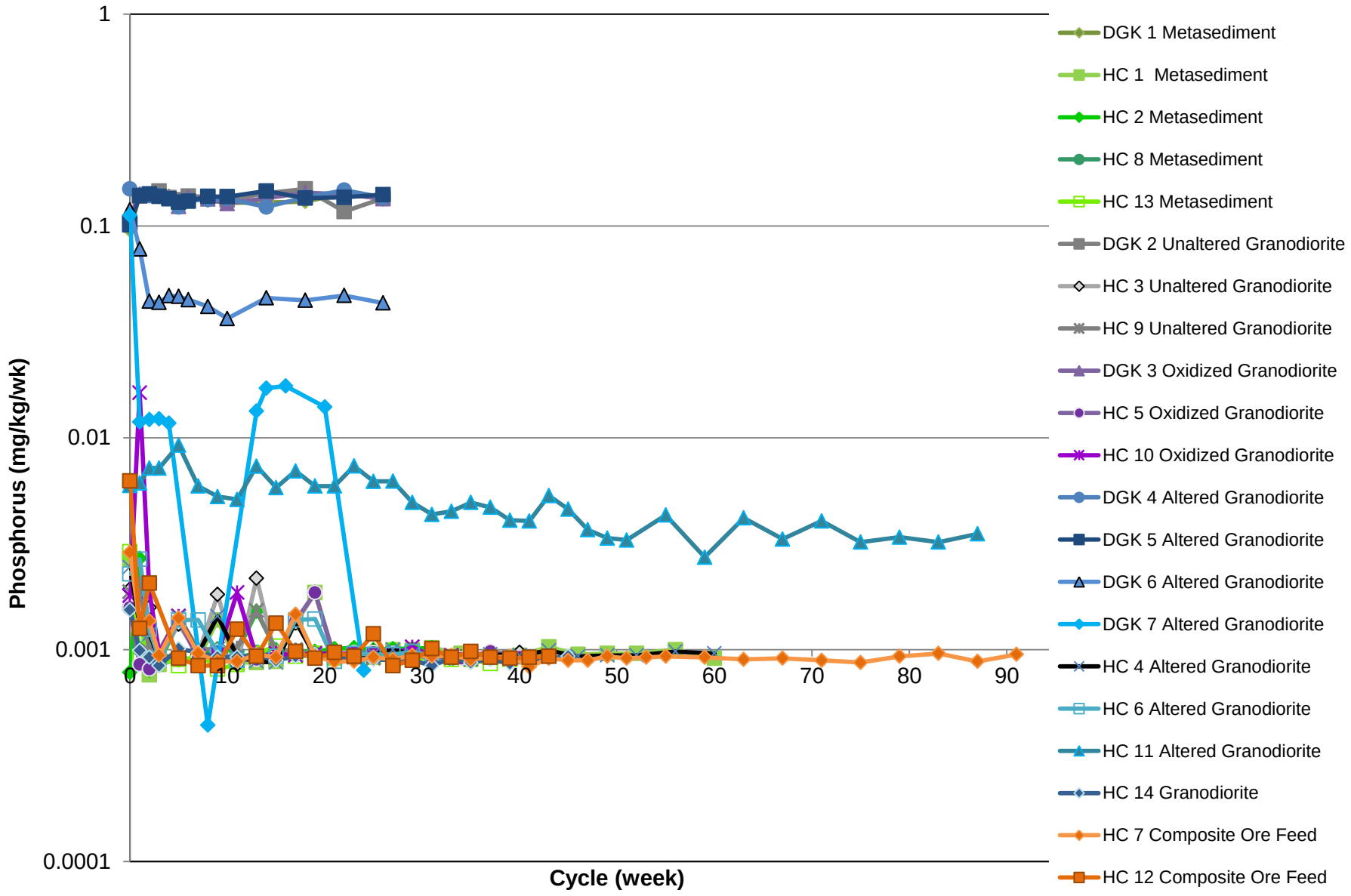
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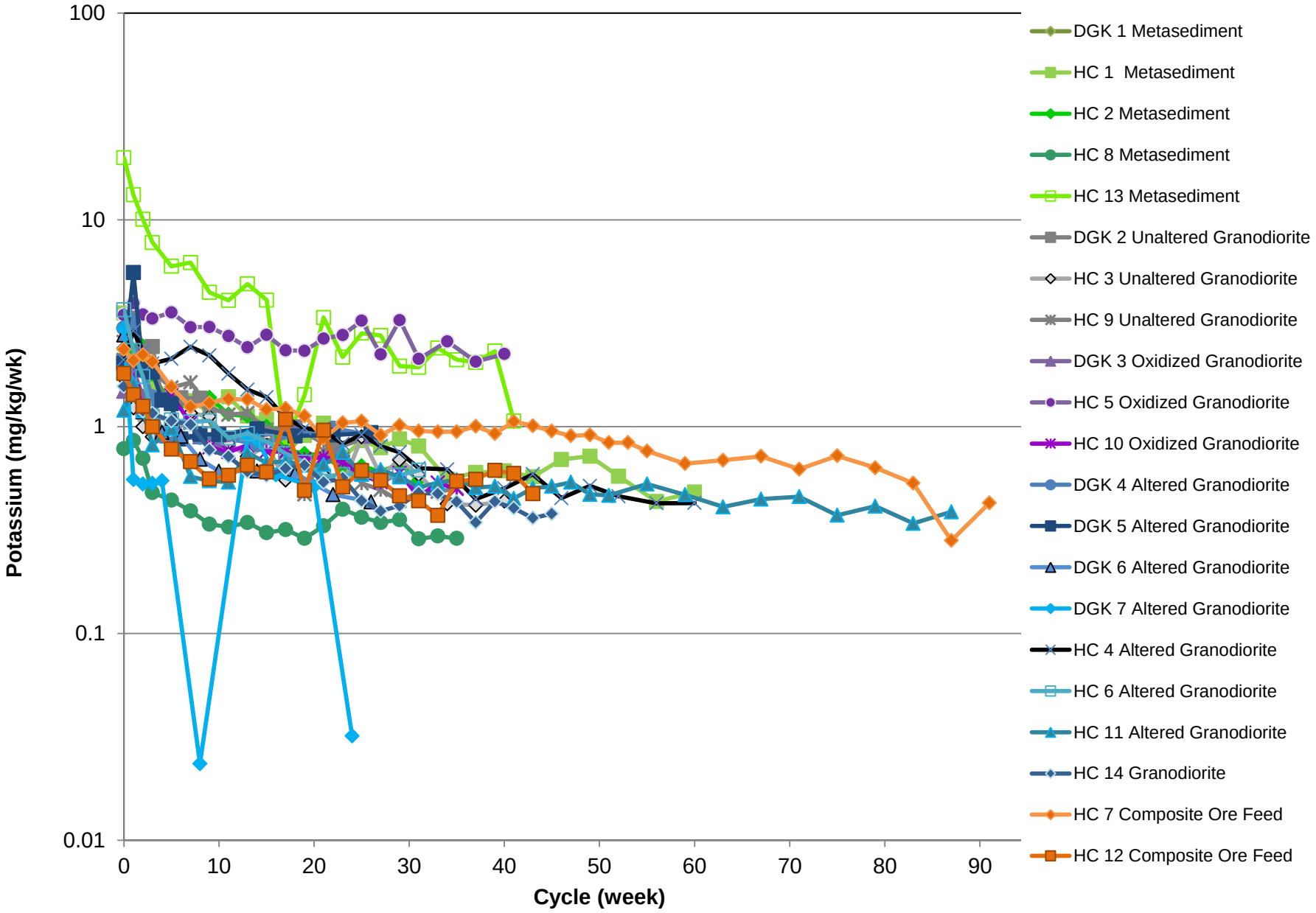


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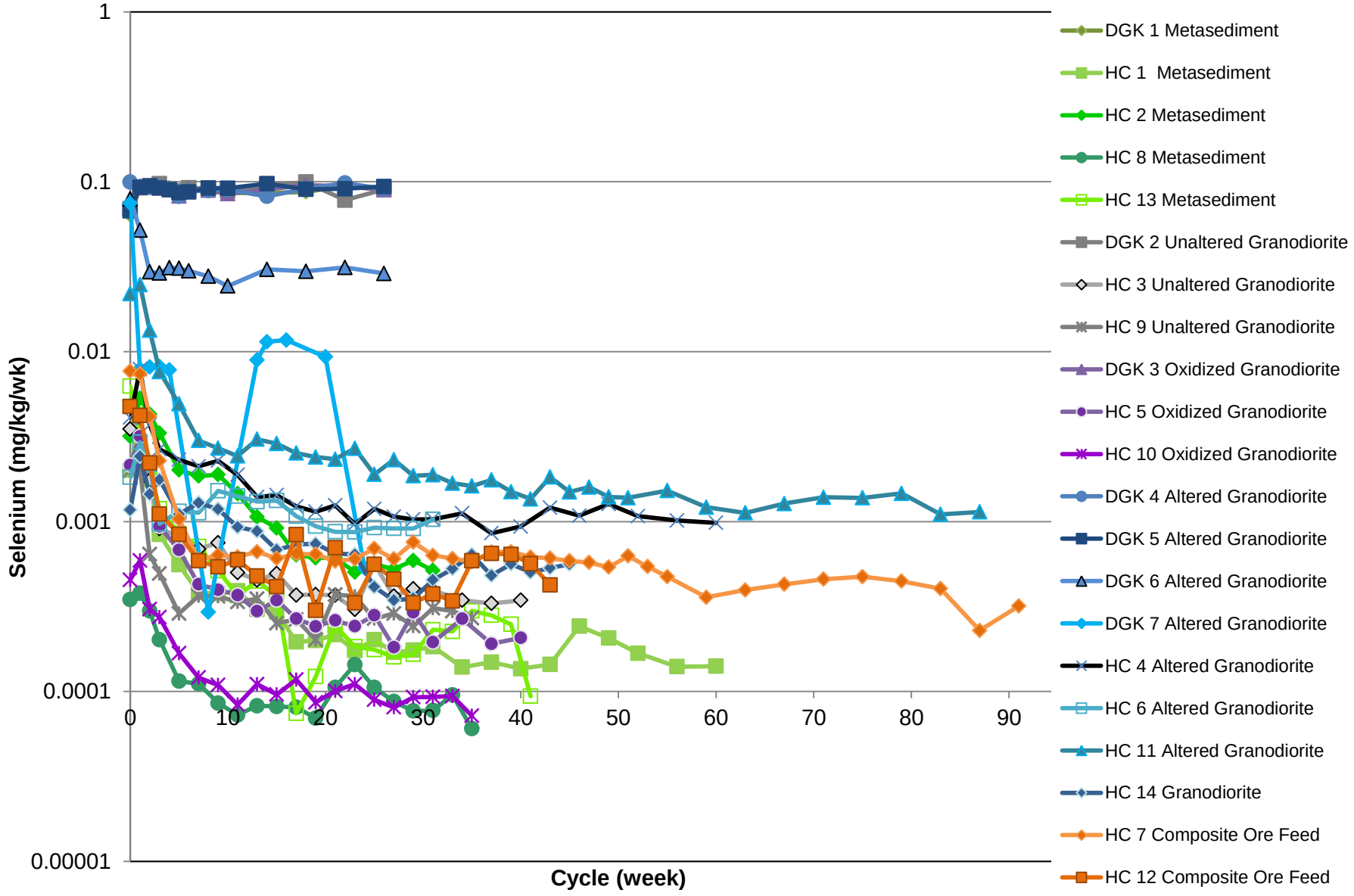


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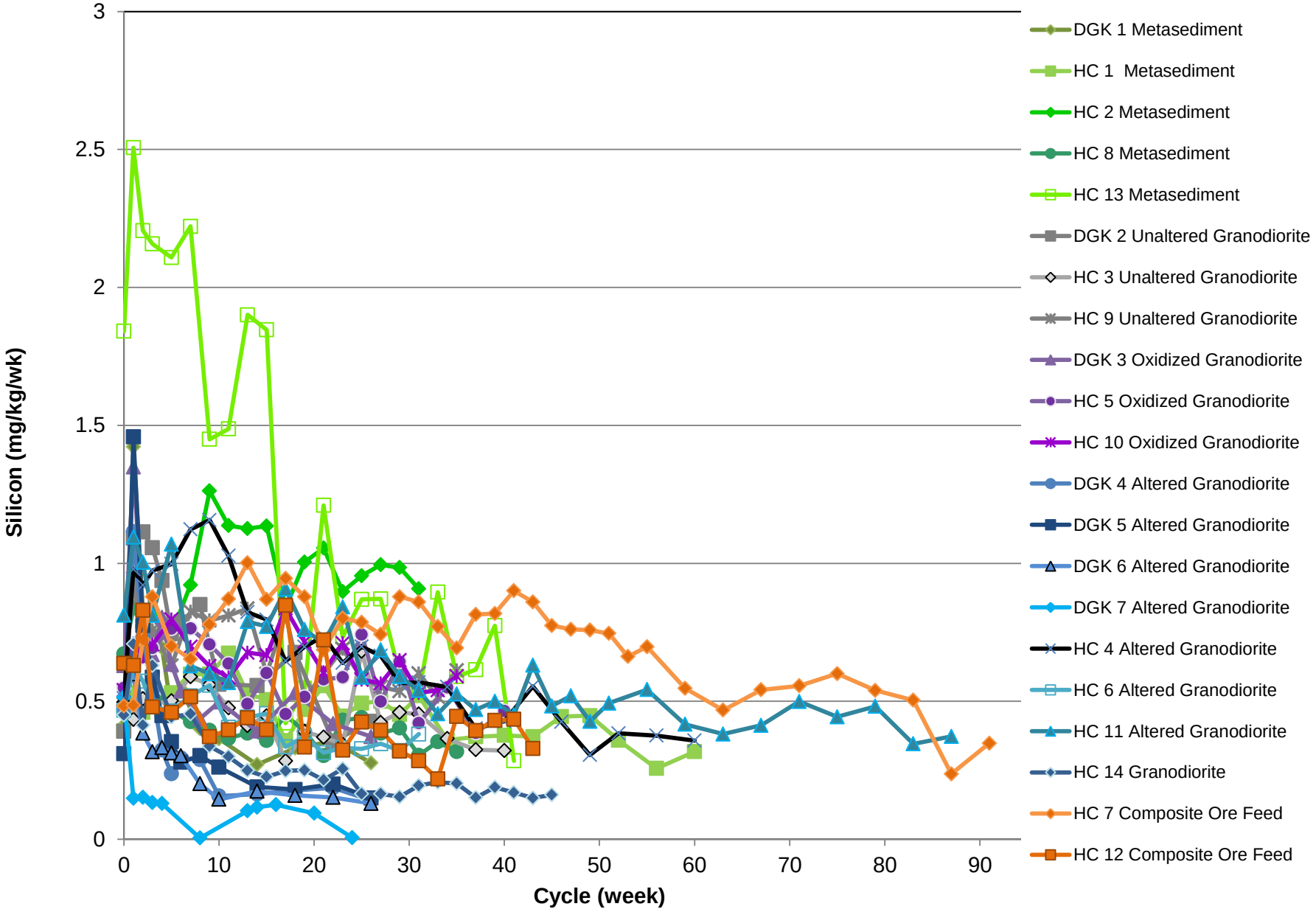

1
0.1
0.01
0.001
0.0001
Phosphorus (mg/kg/wk)
0
10
20
30
40
50
60
70
80
90
Cycle (week)
DGK 1 Metasediment
HC 1 Metasediment
HC 2 Metasediment
HC 8 Metasediment
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DGK 4 Altered Granodiorite
DGK 5 Altered Granodiorite
DGK 6 Altered Granodiorite
DGK 7 Altered Granodiorite
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HC 14 Granodiorite
HC 7 Composite Ore Feed
HC 12 Composite Ore Feed



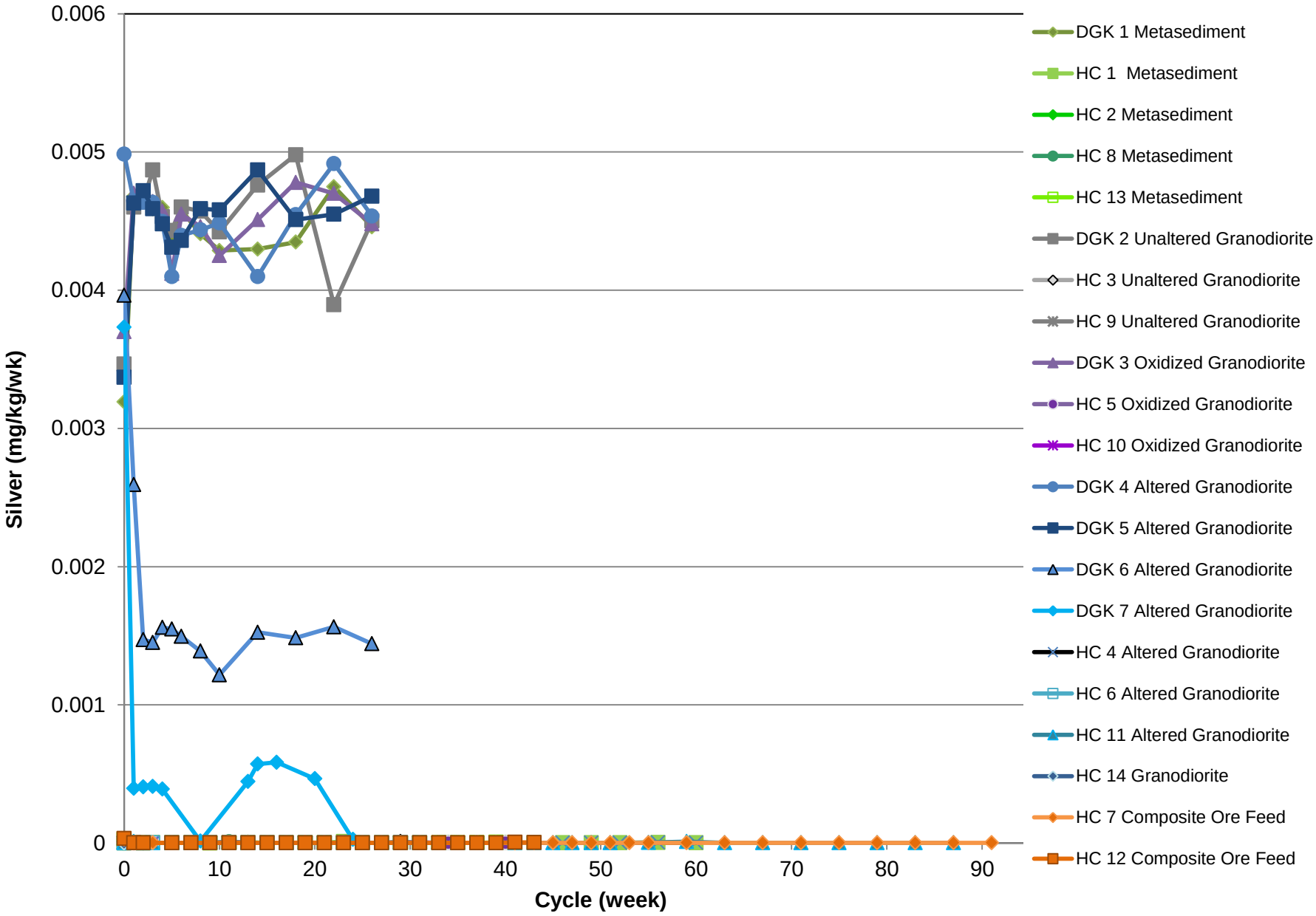
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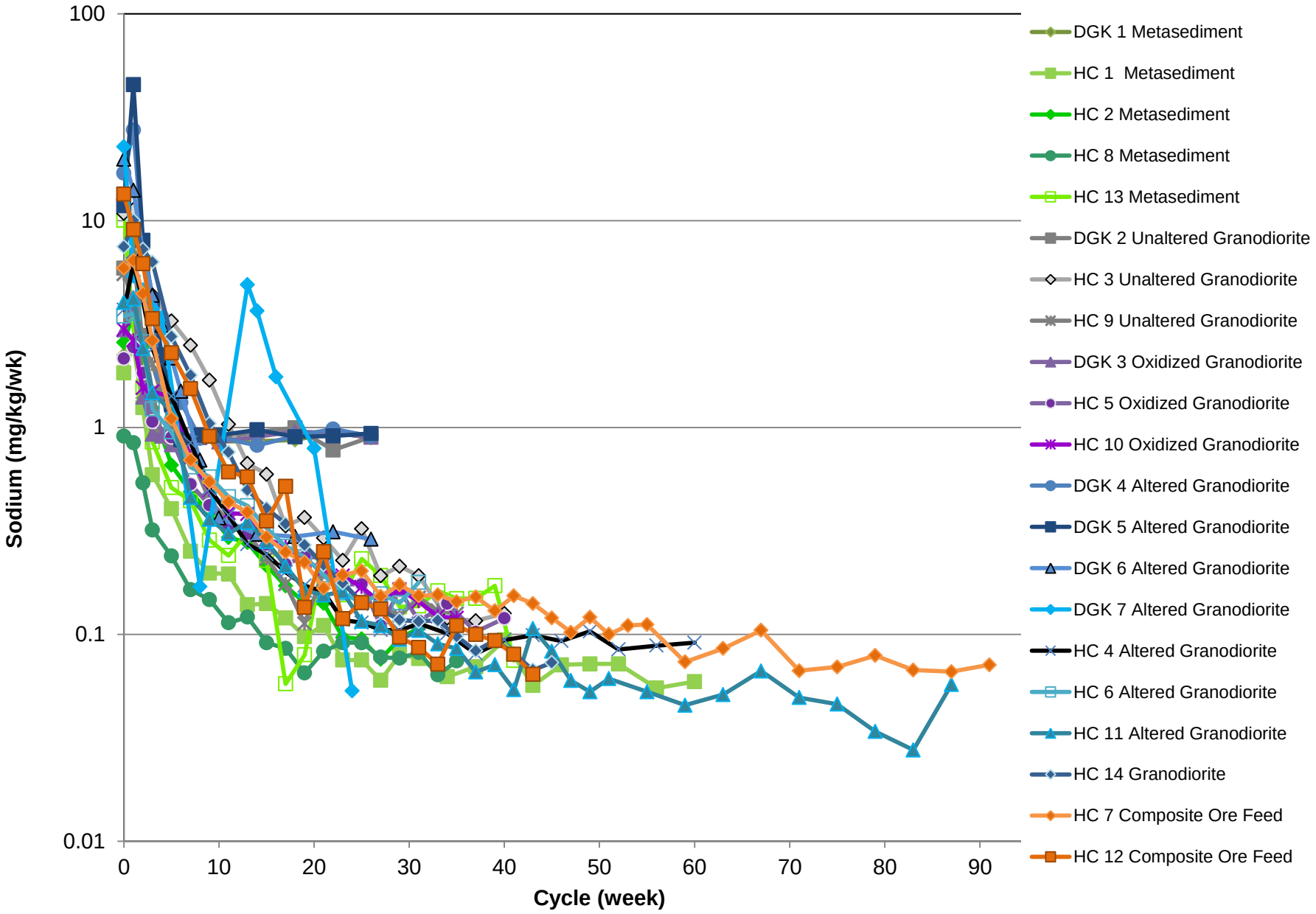
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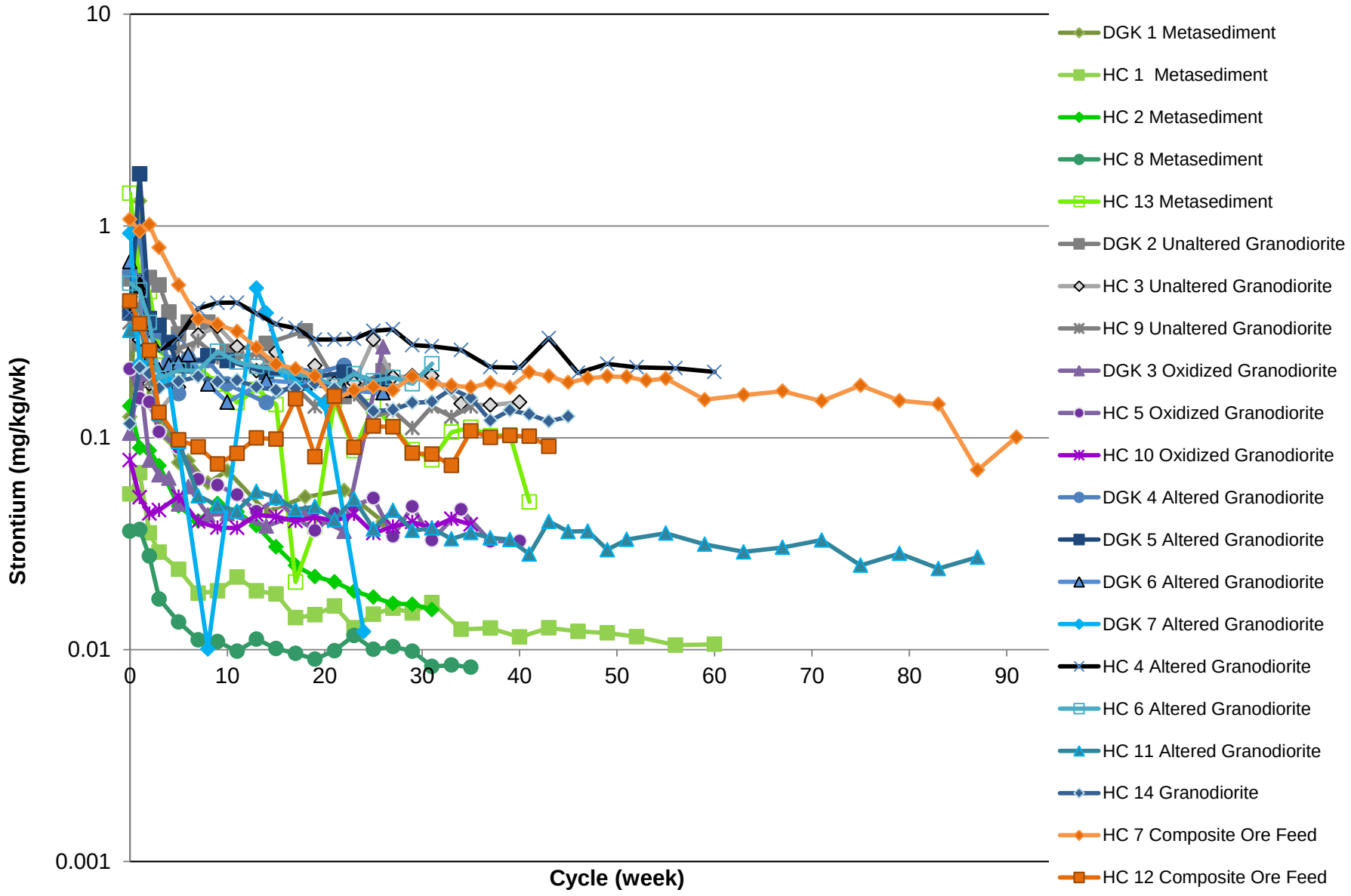
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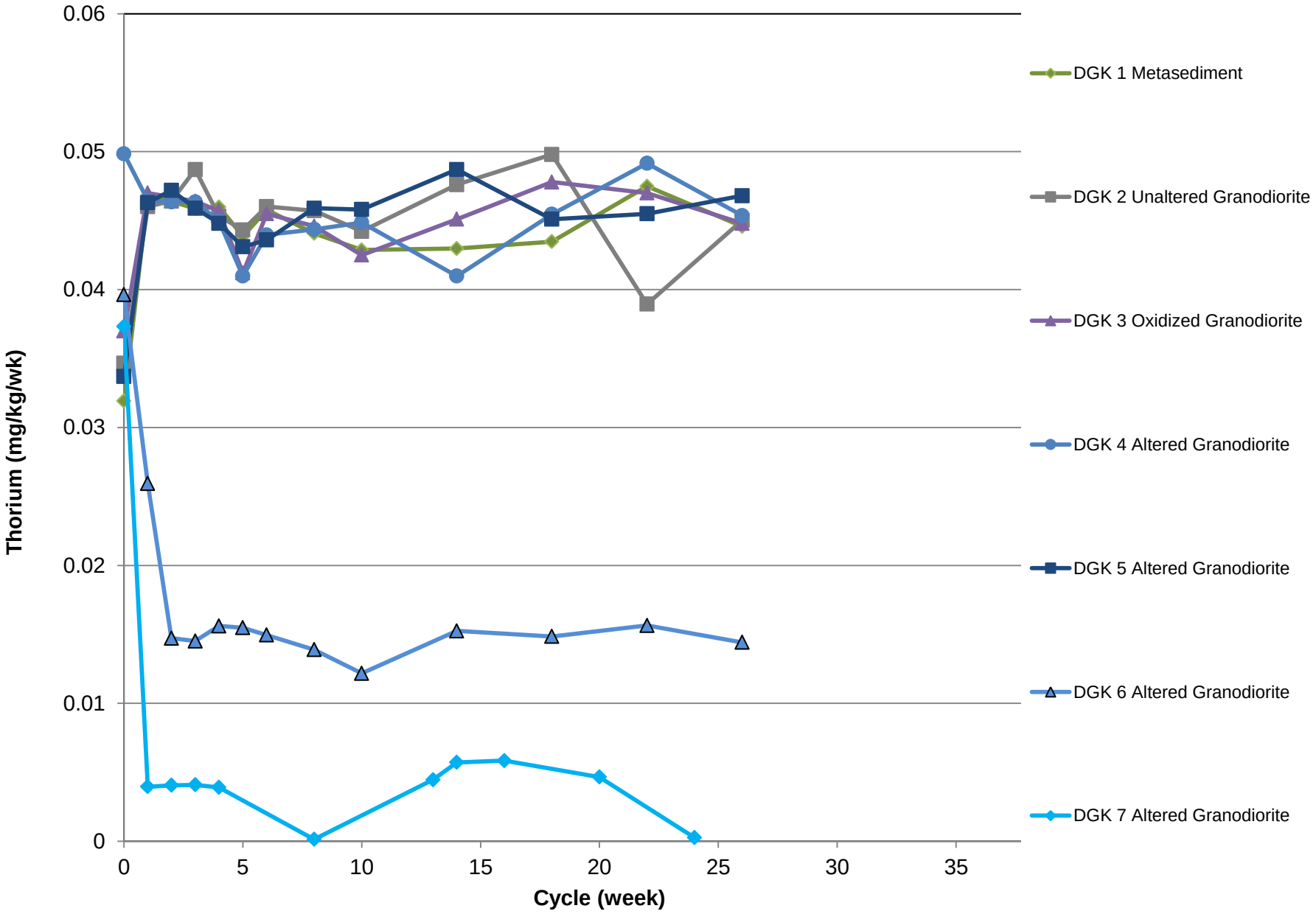
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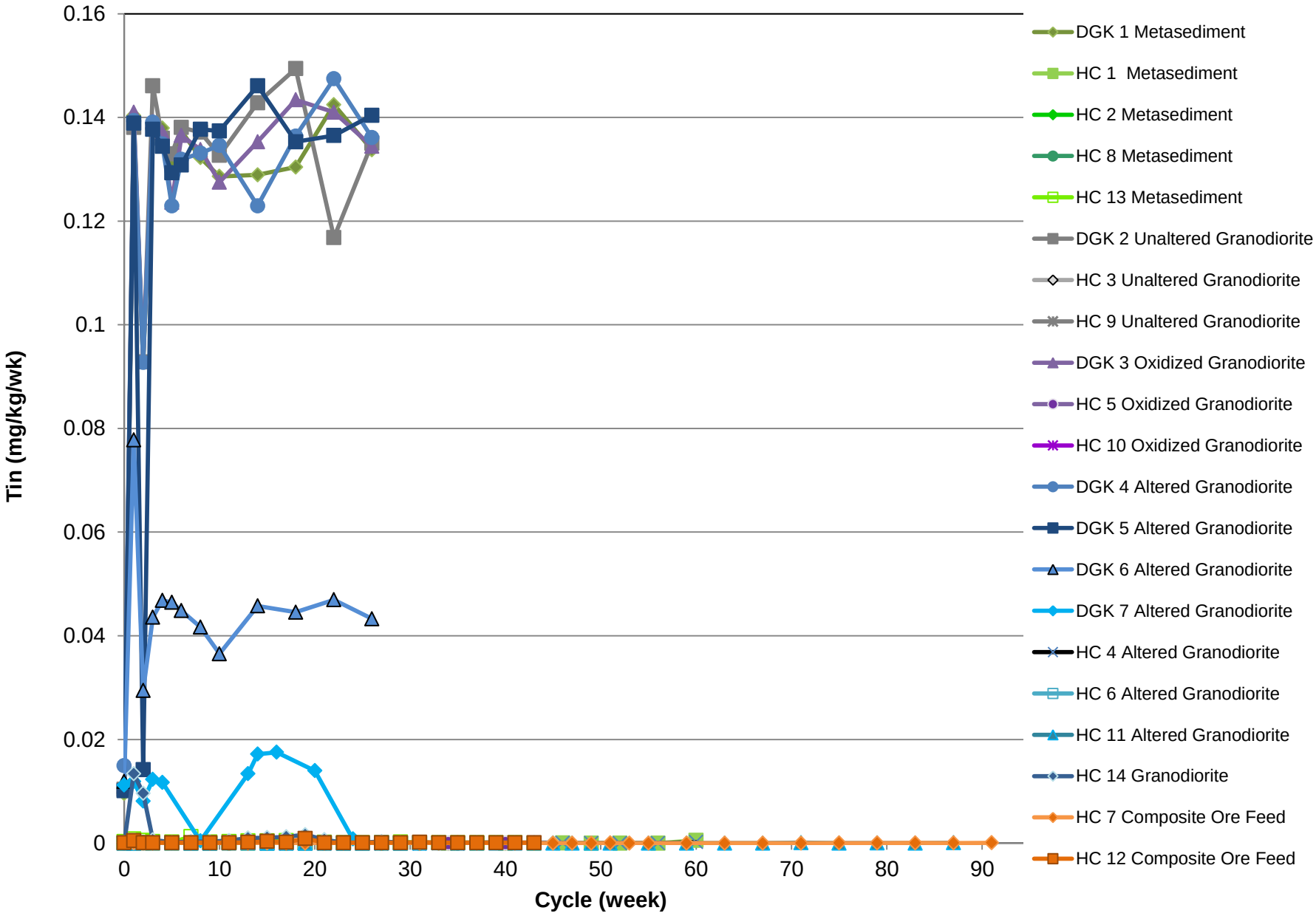
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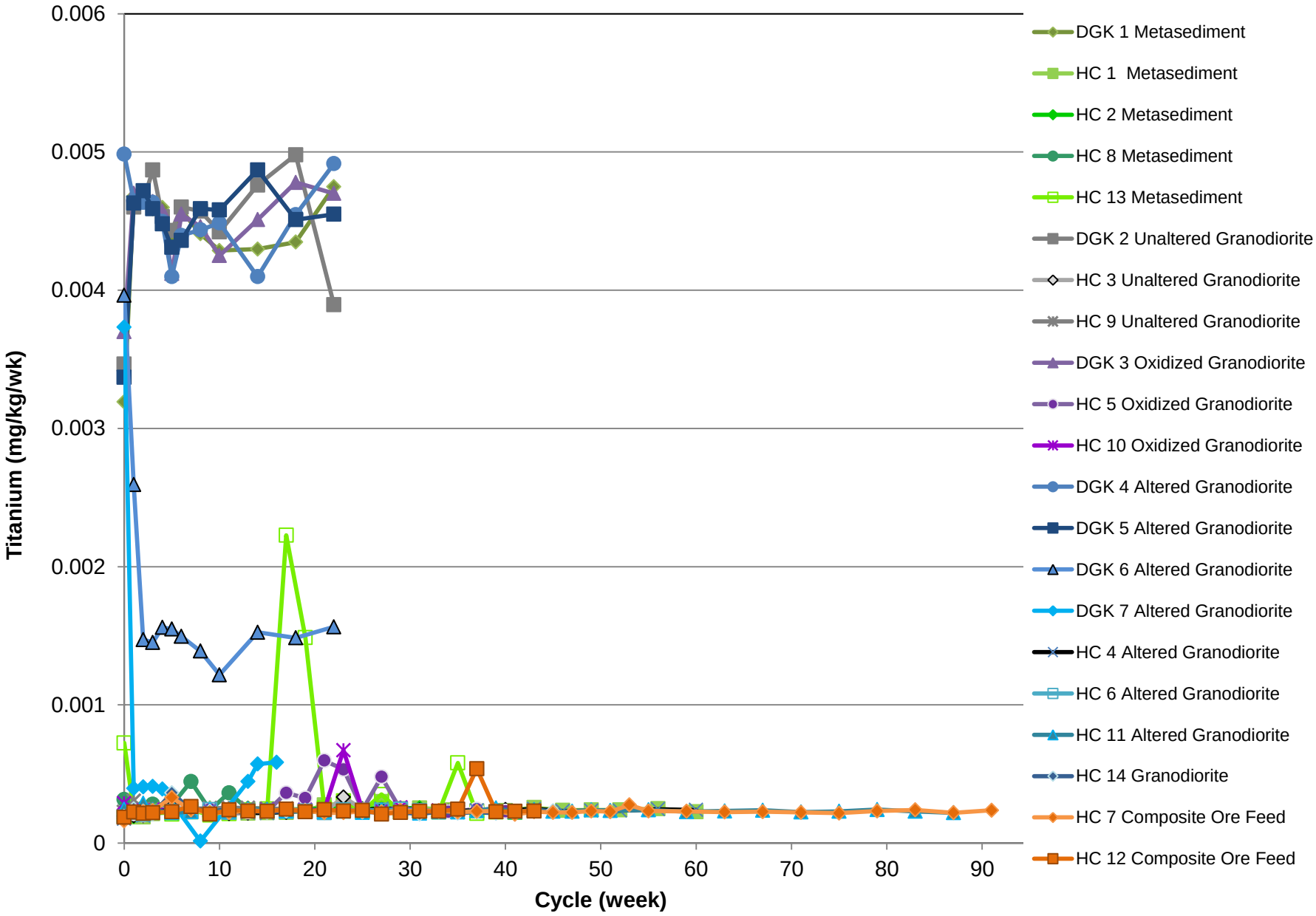
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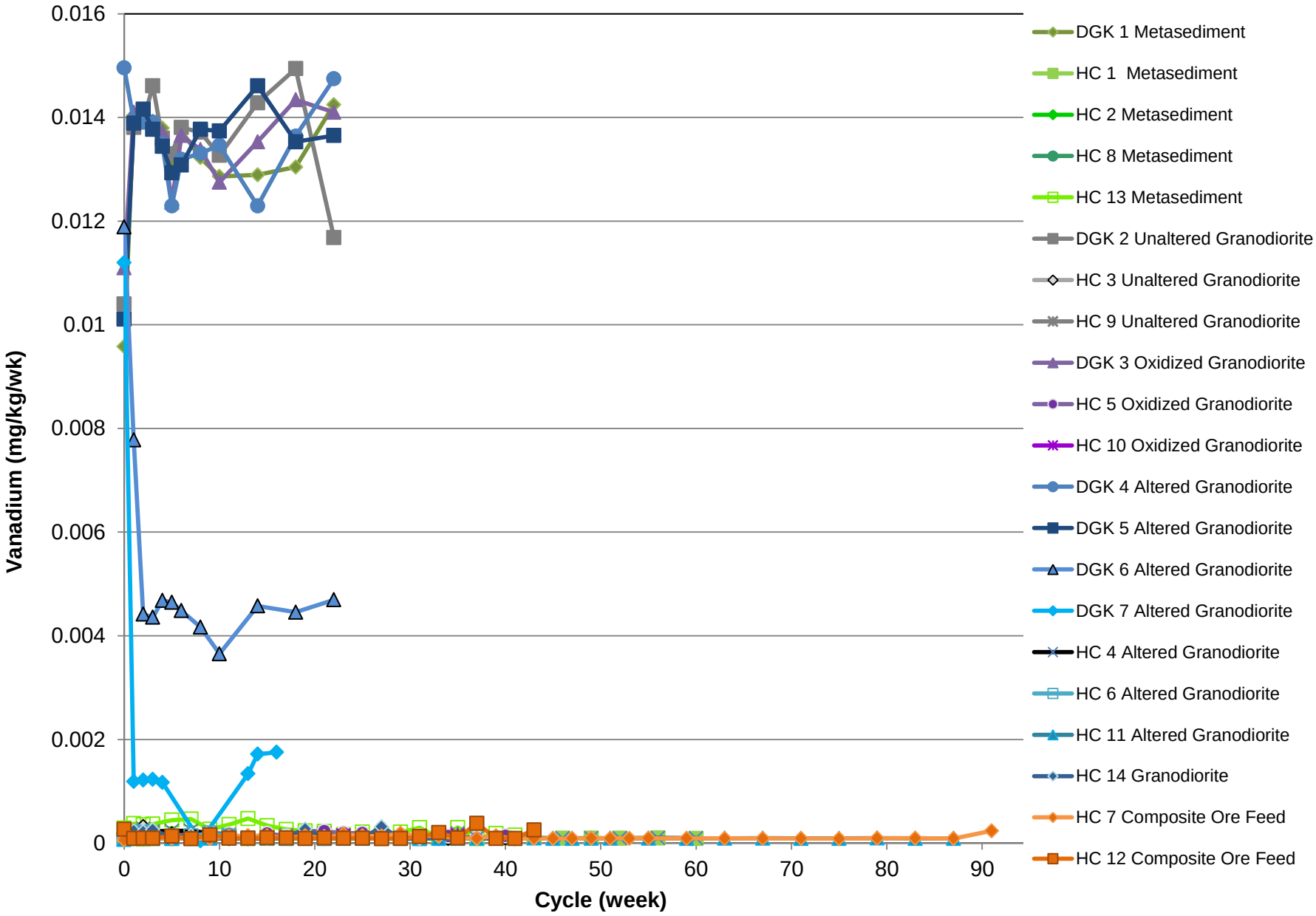
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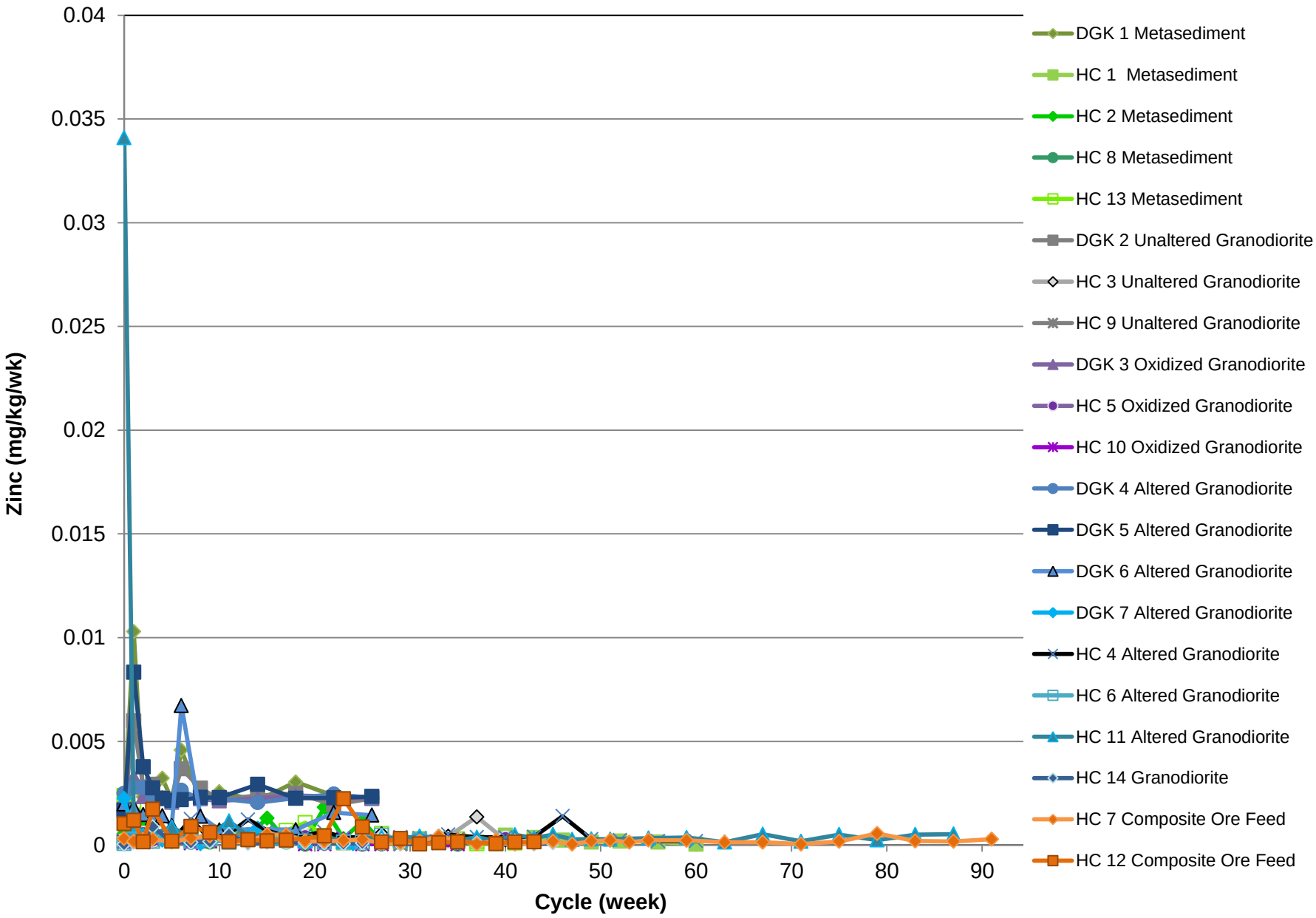
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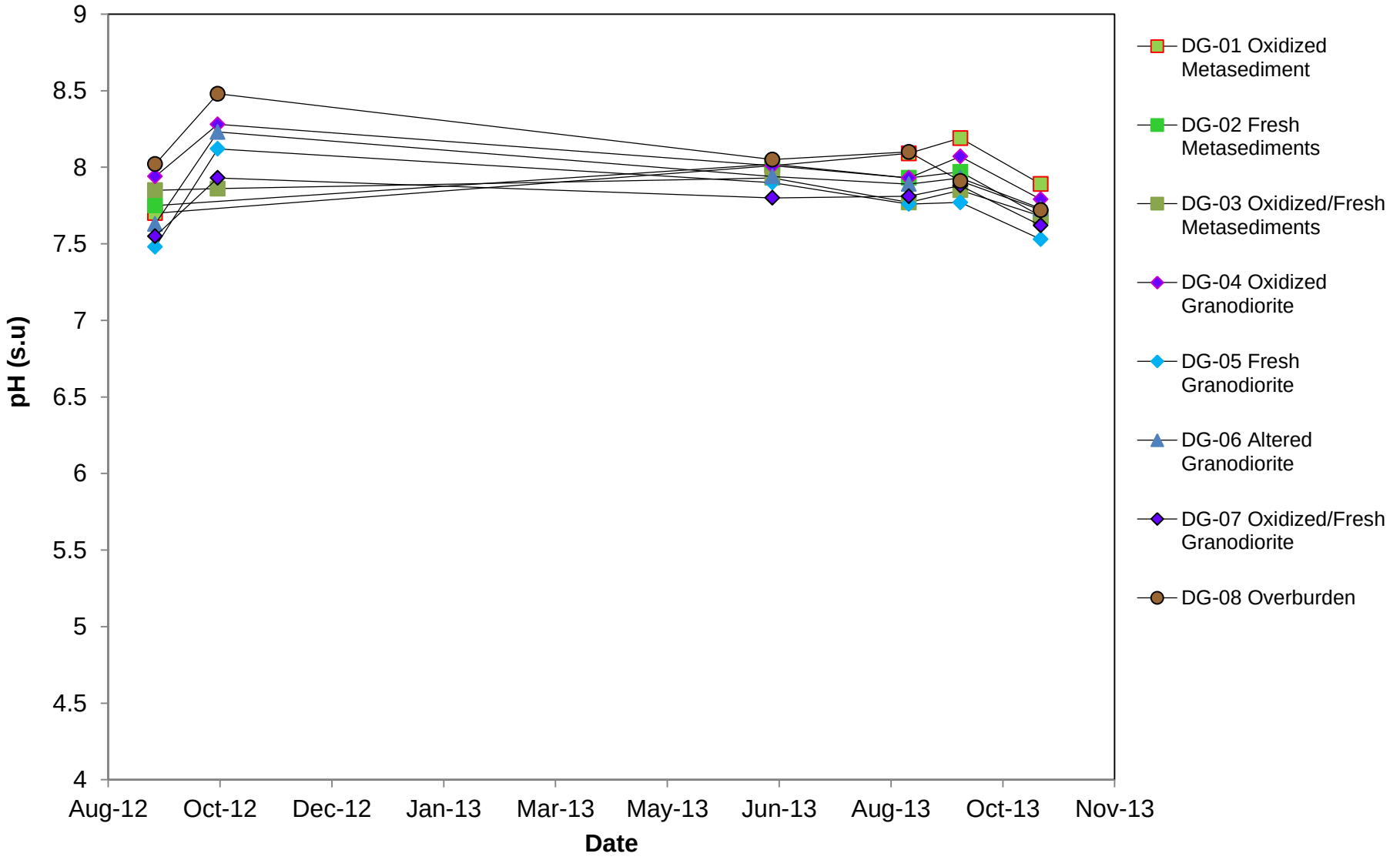
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Appendix H5: Field Barrel Test Concentration Tables

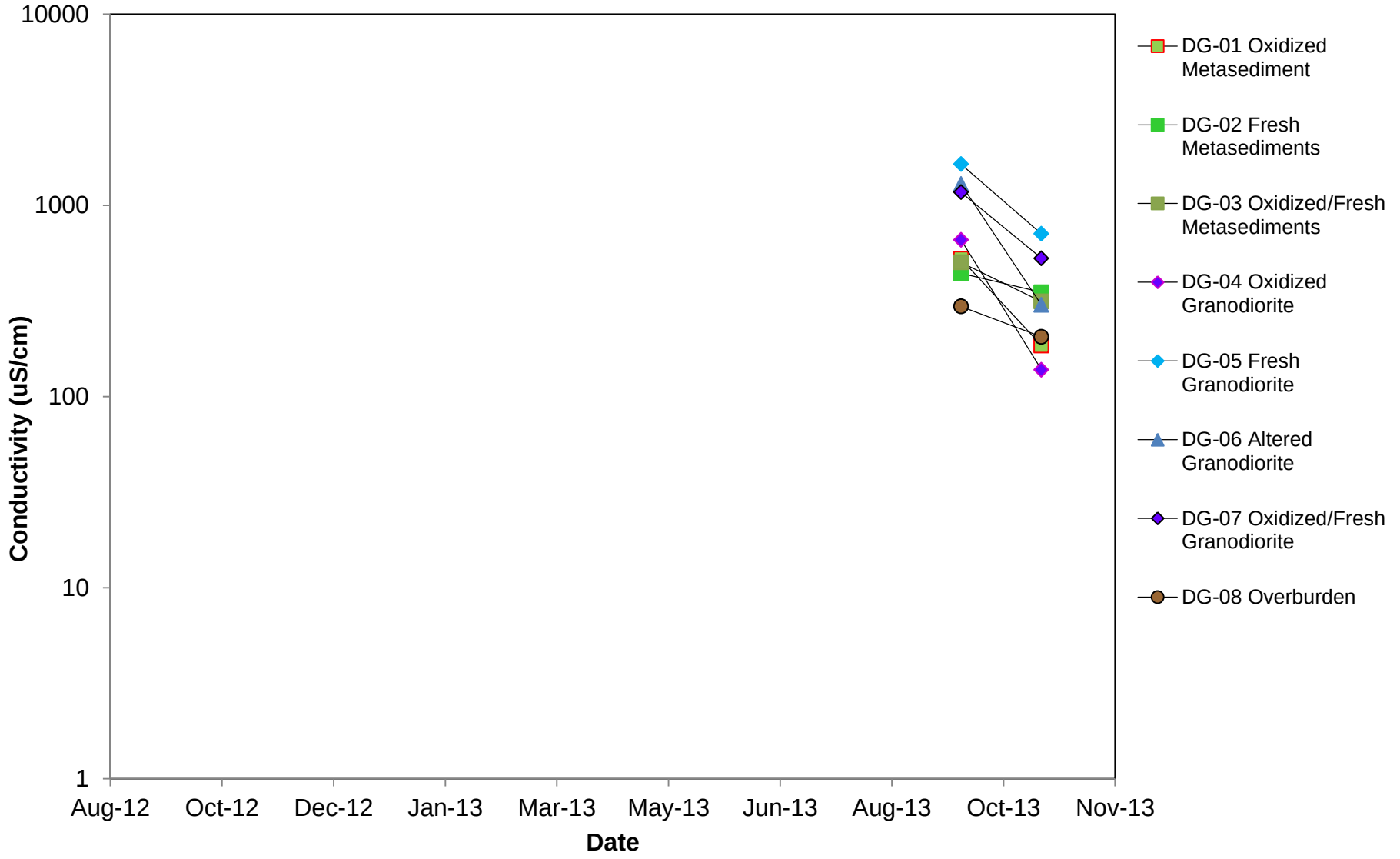
Appendix H5 - Field Barrel Test Concentrations

| | | | Physical Tests | | | Anions and Nutrients | | | | | | Dissolved Metals | | | | | |

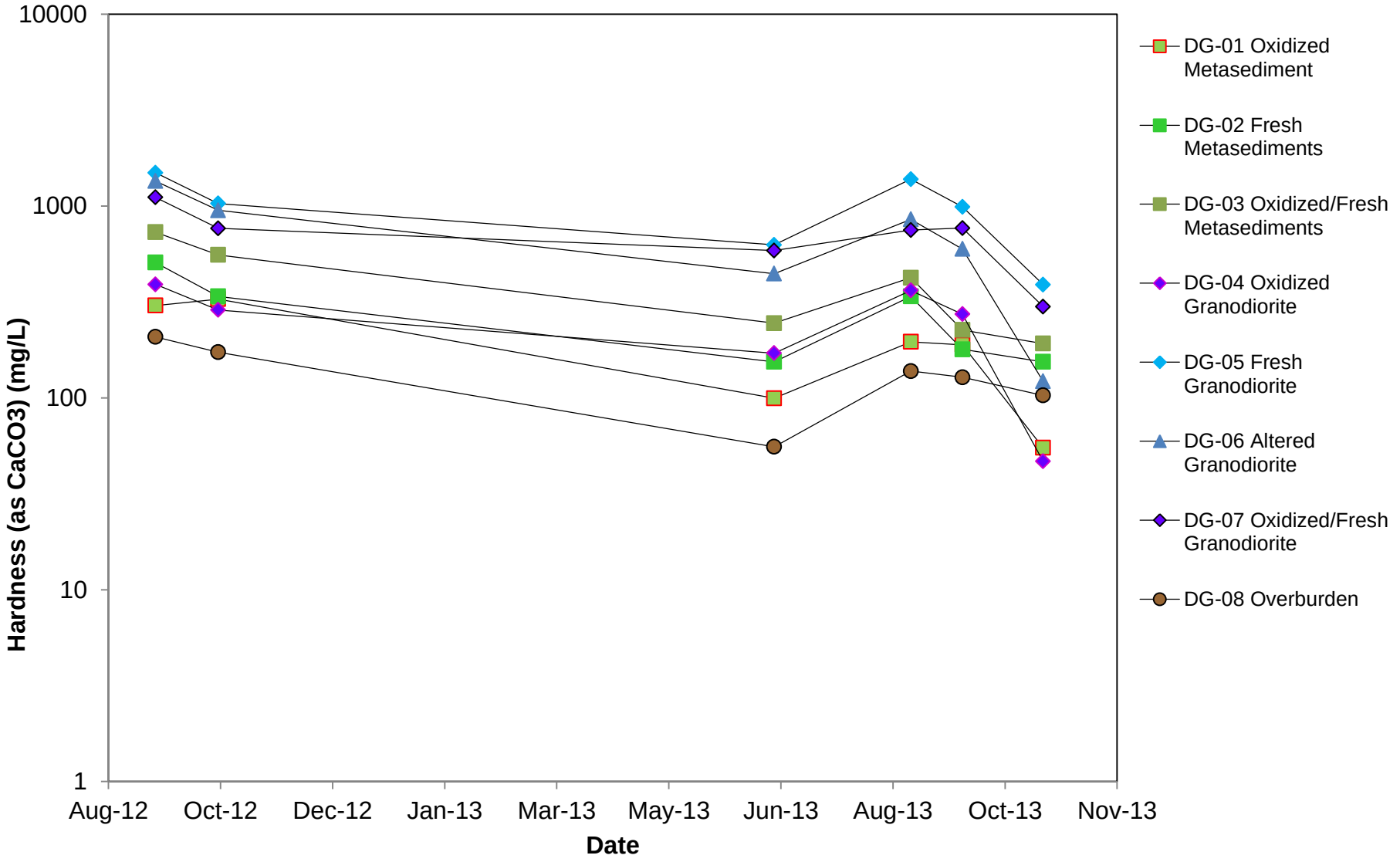
Appendix H6: Field Barrel Test Concentration Charts



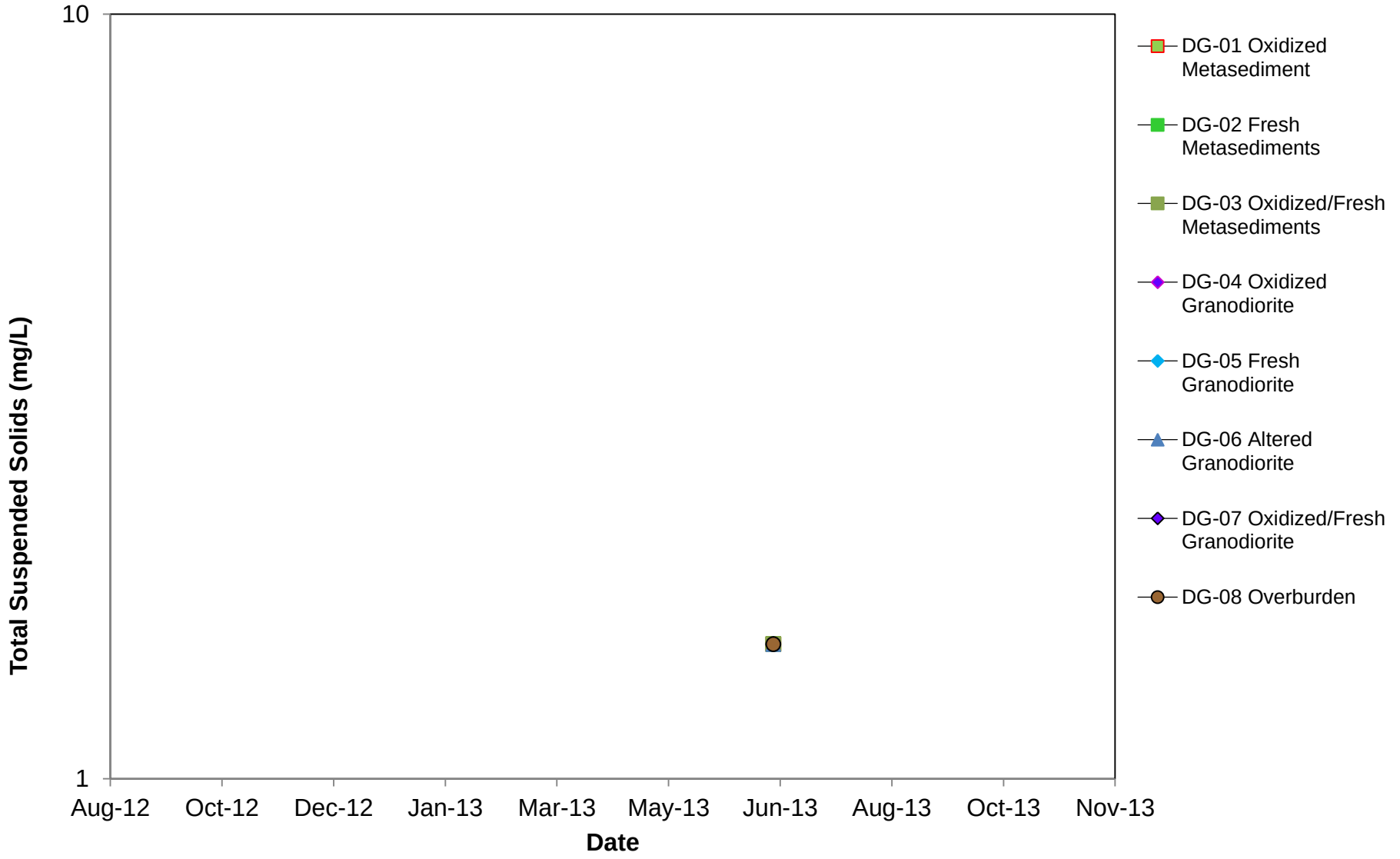
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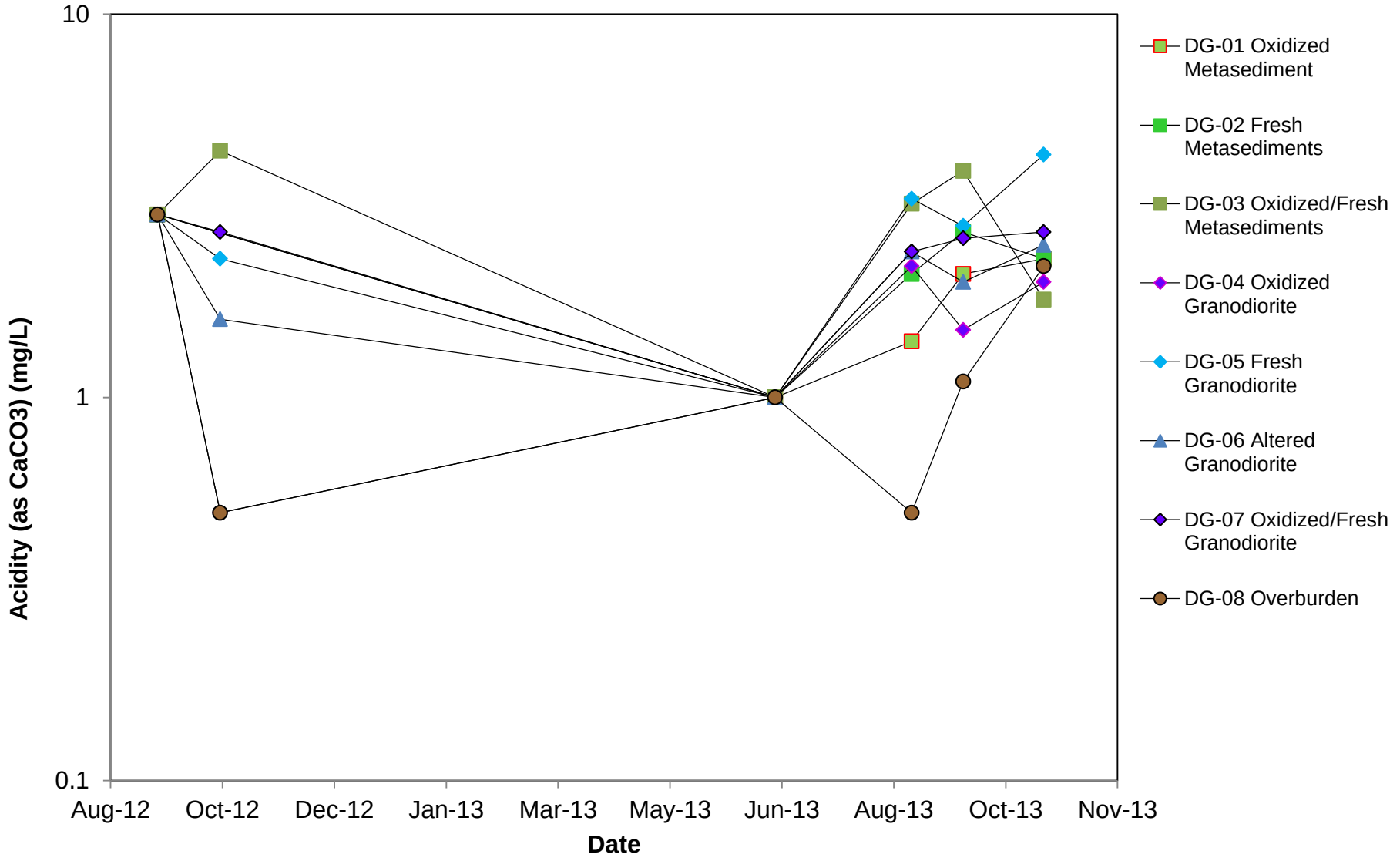
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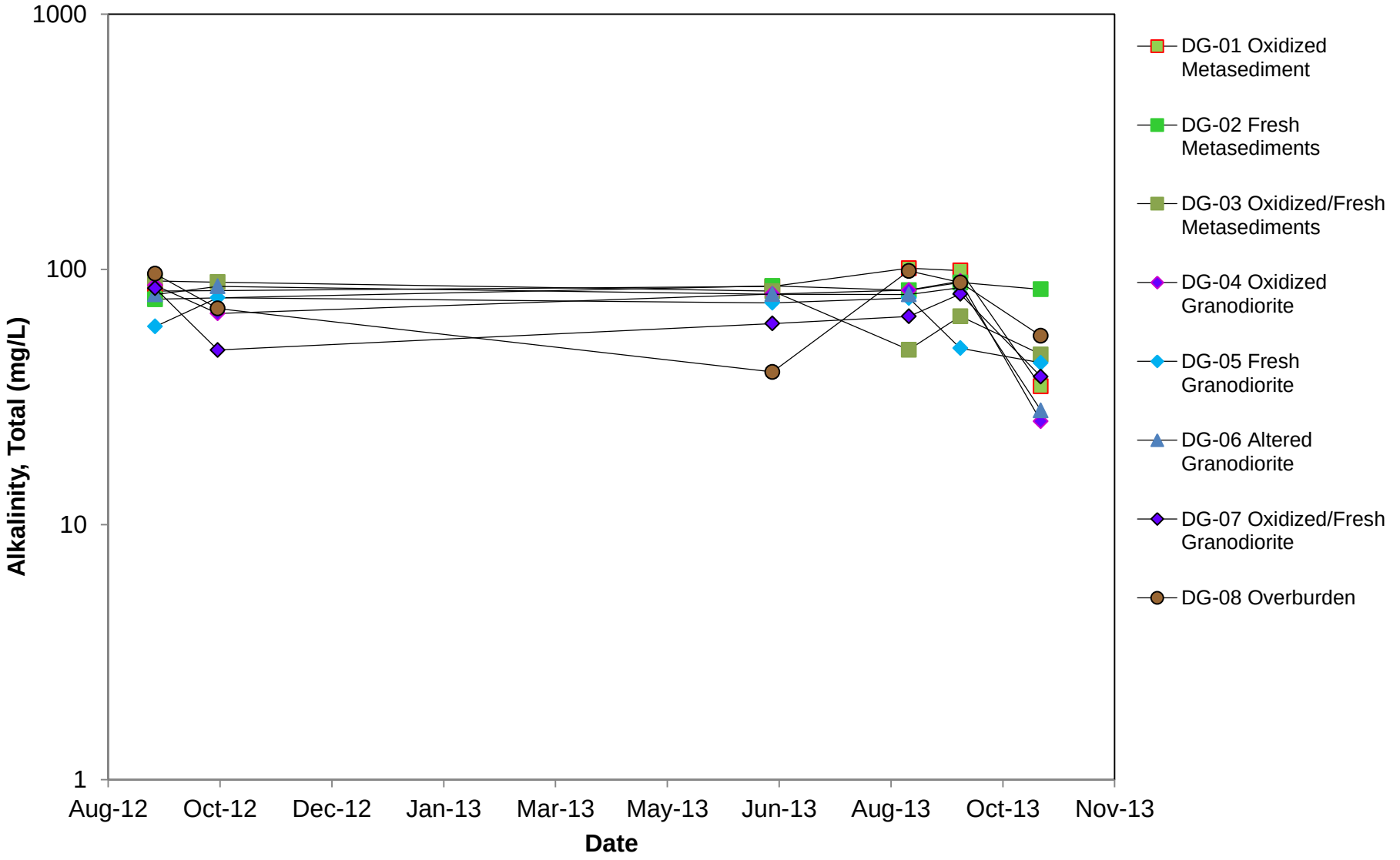
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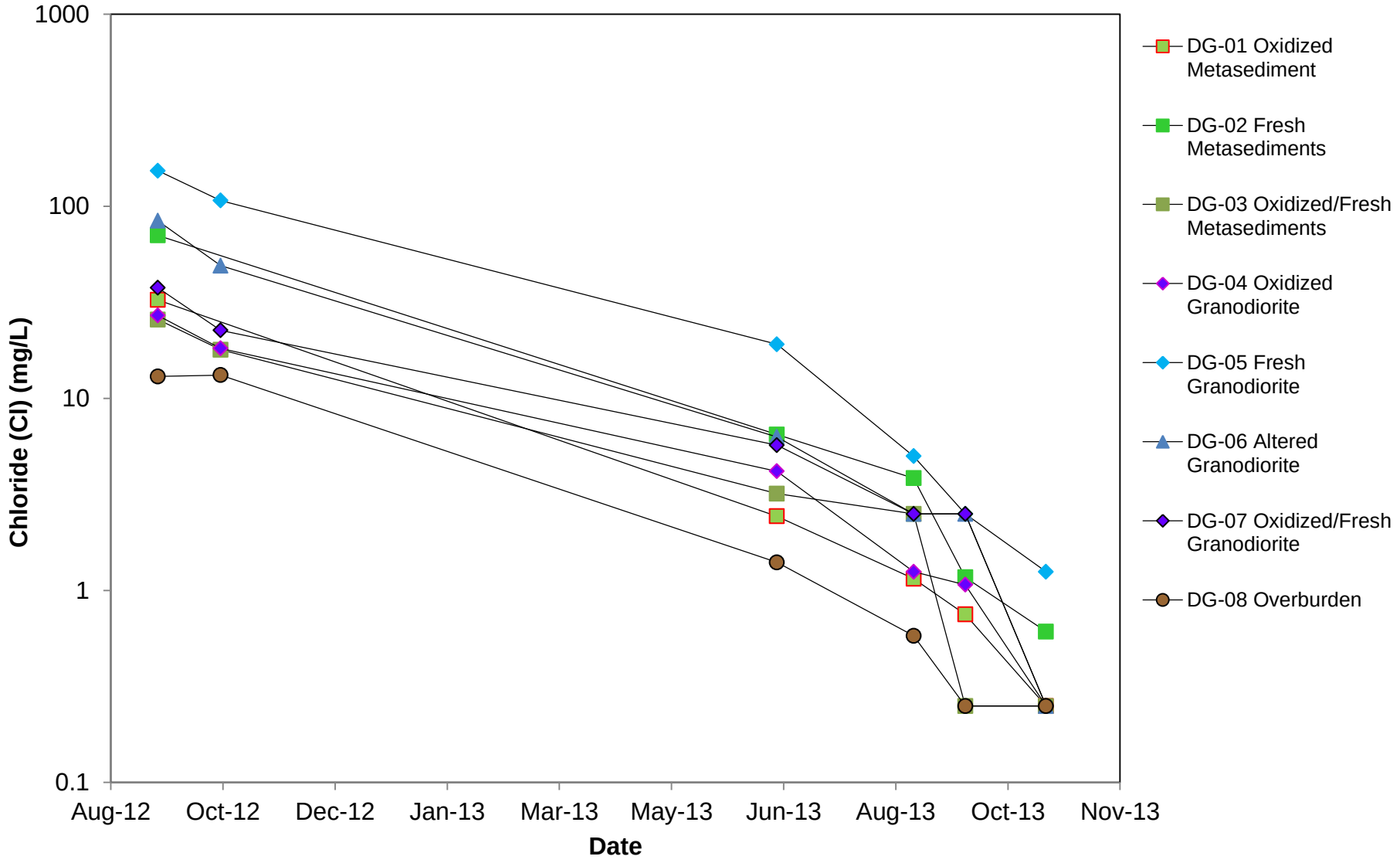
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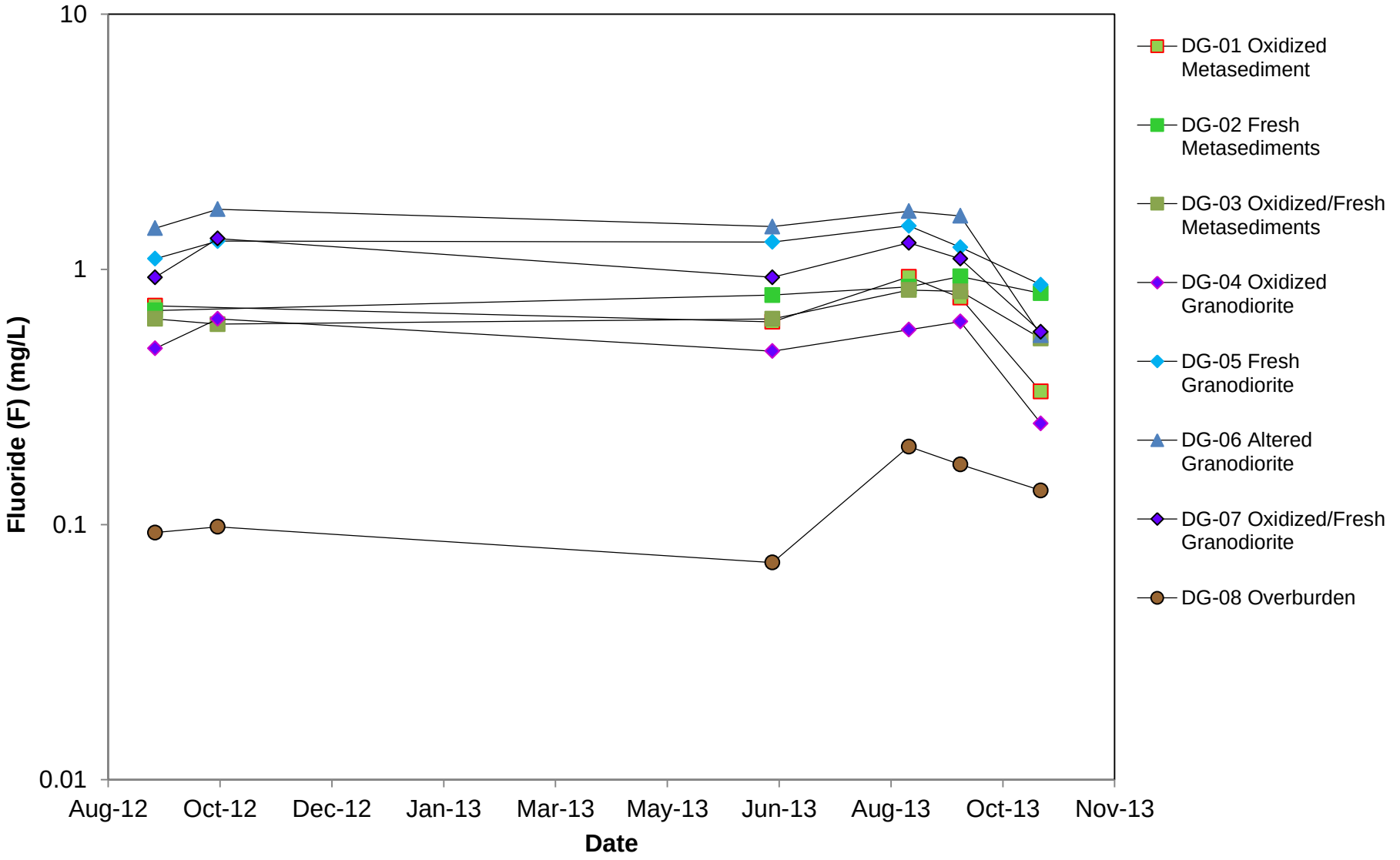
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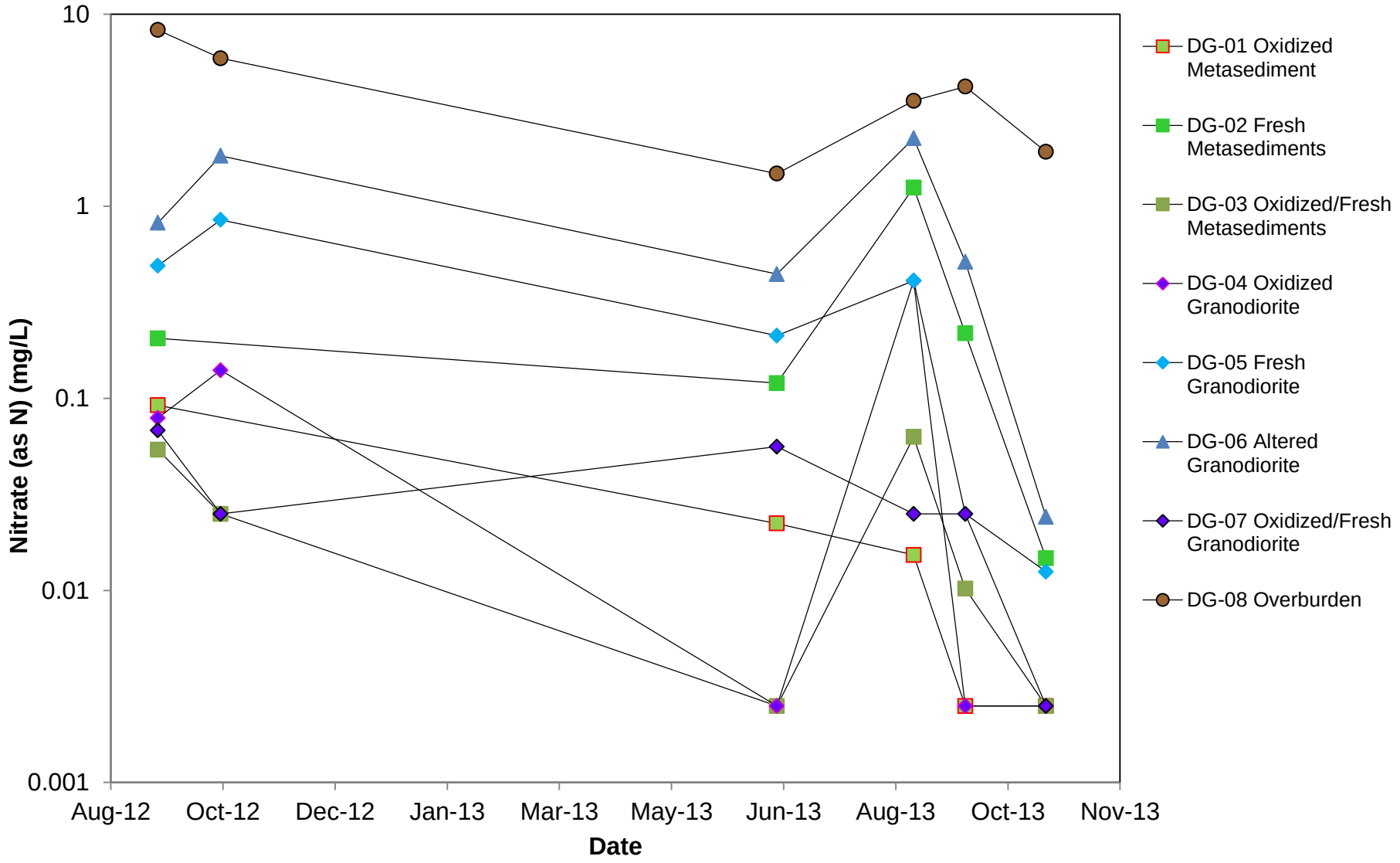
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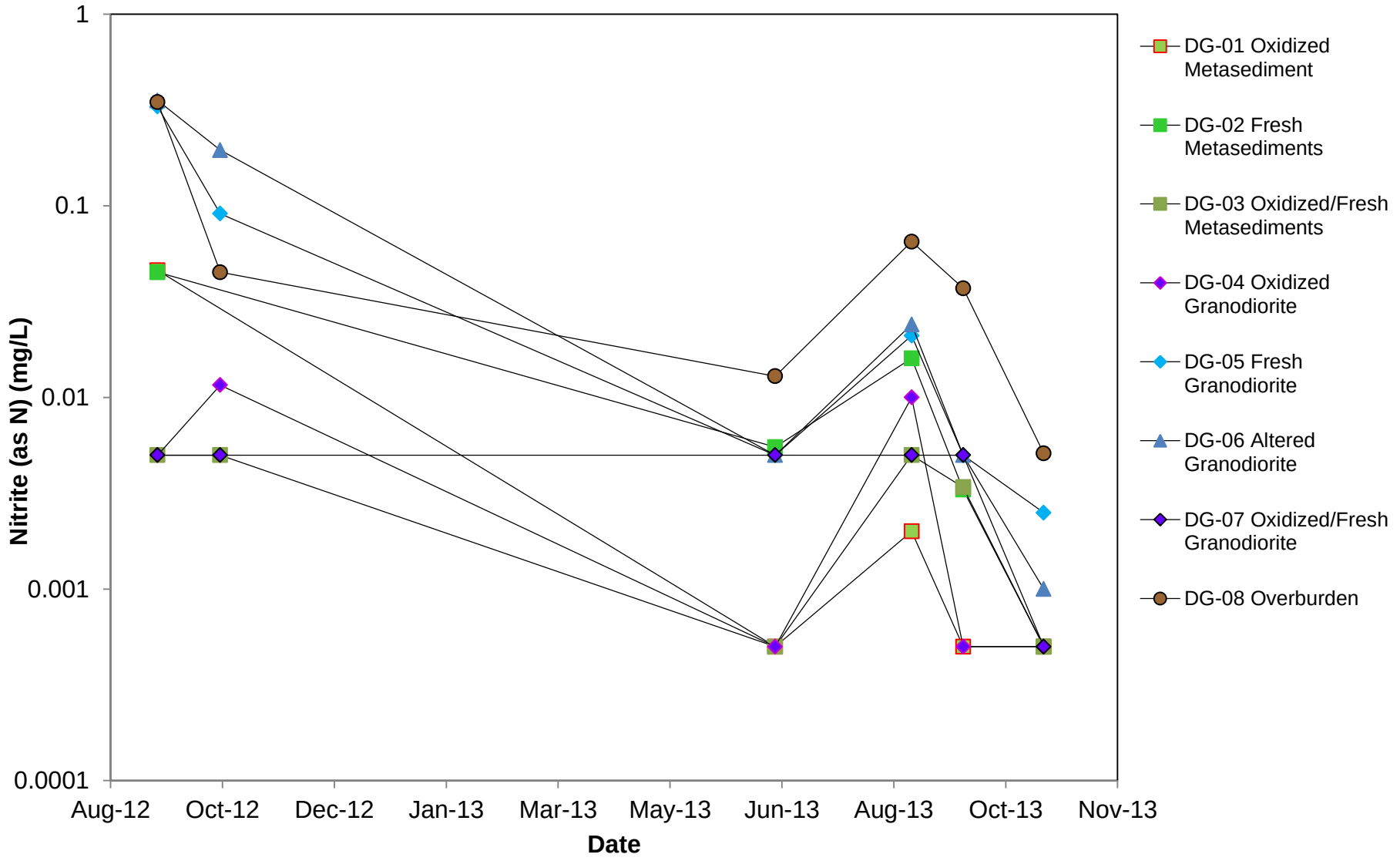
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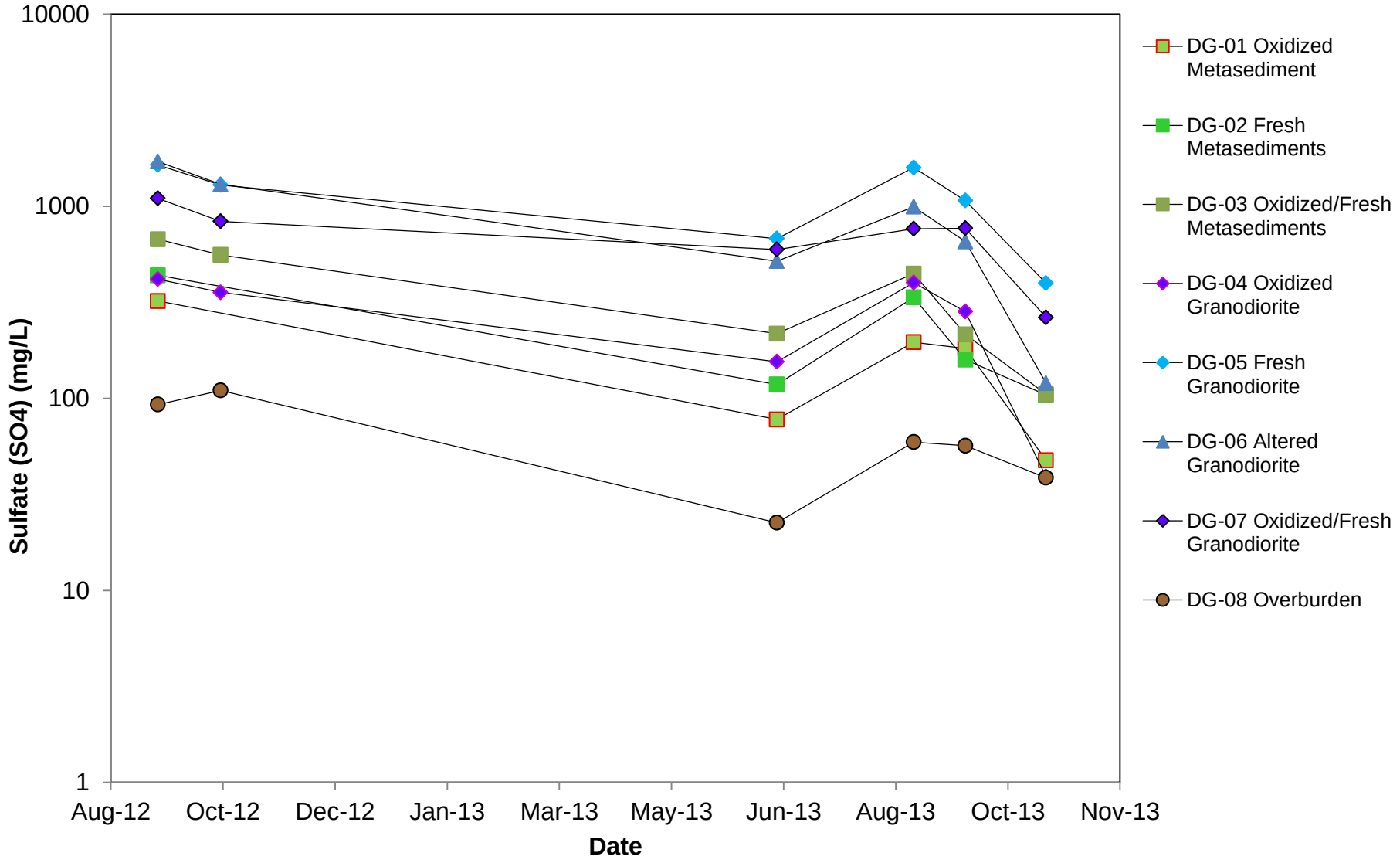
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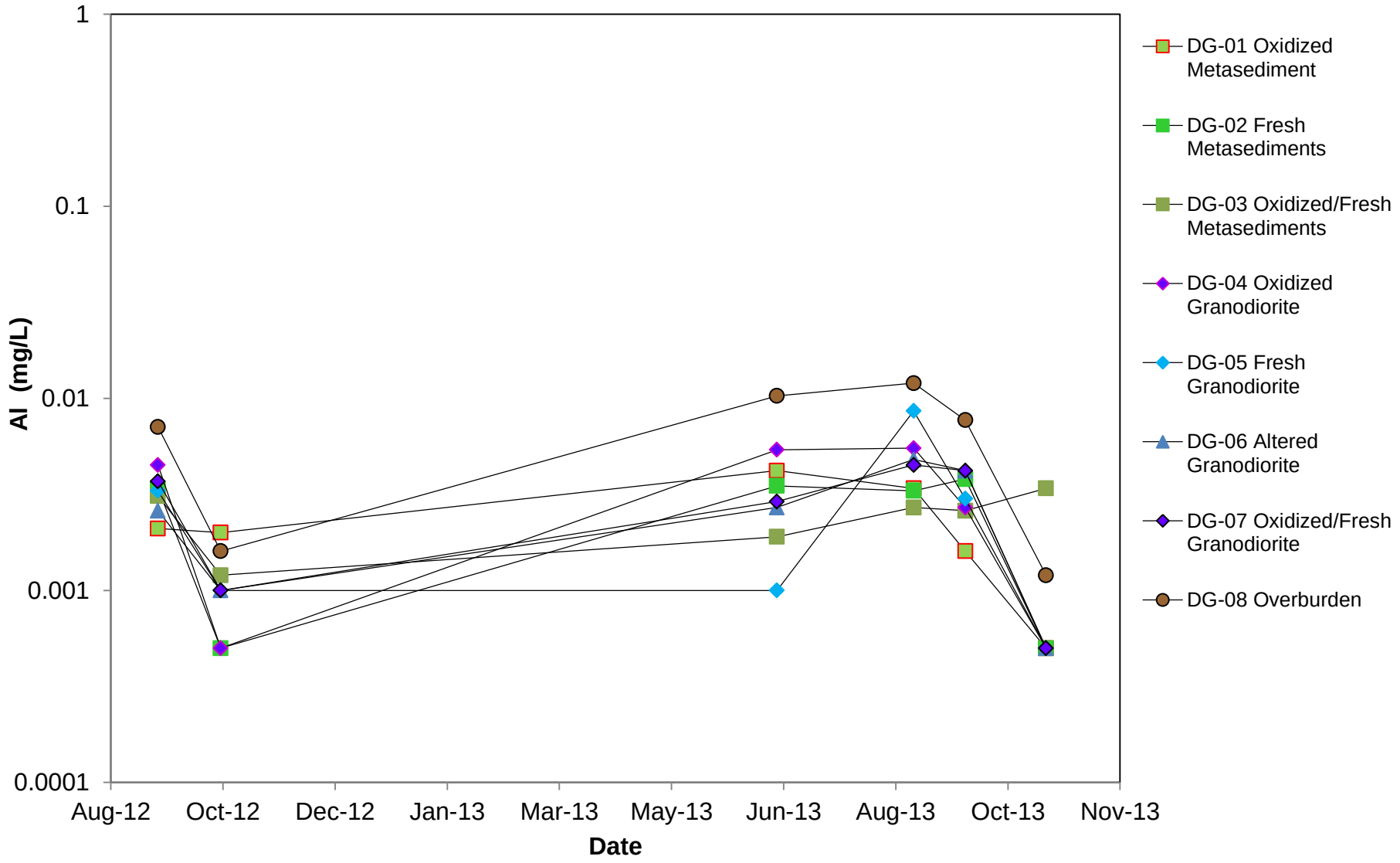
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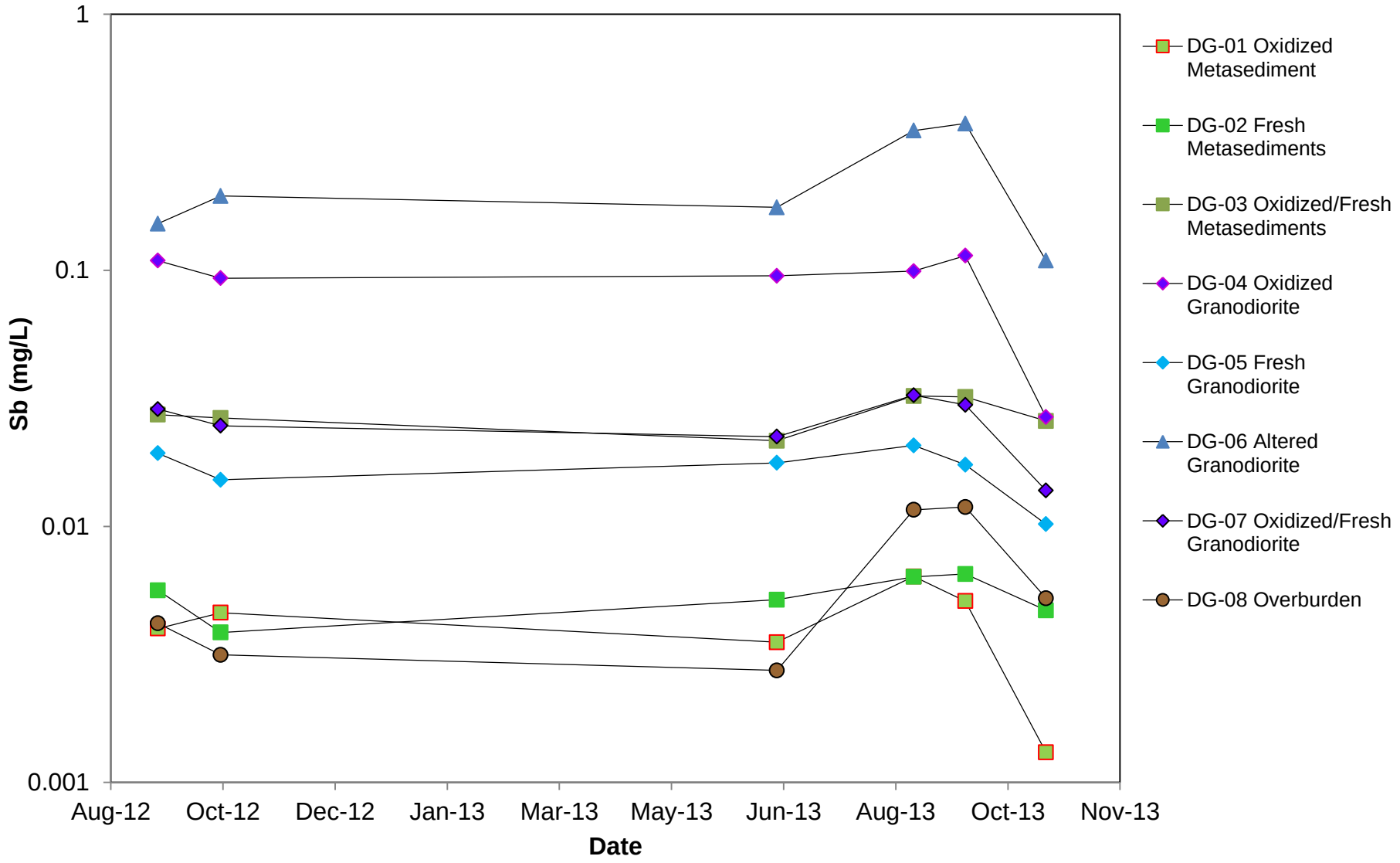
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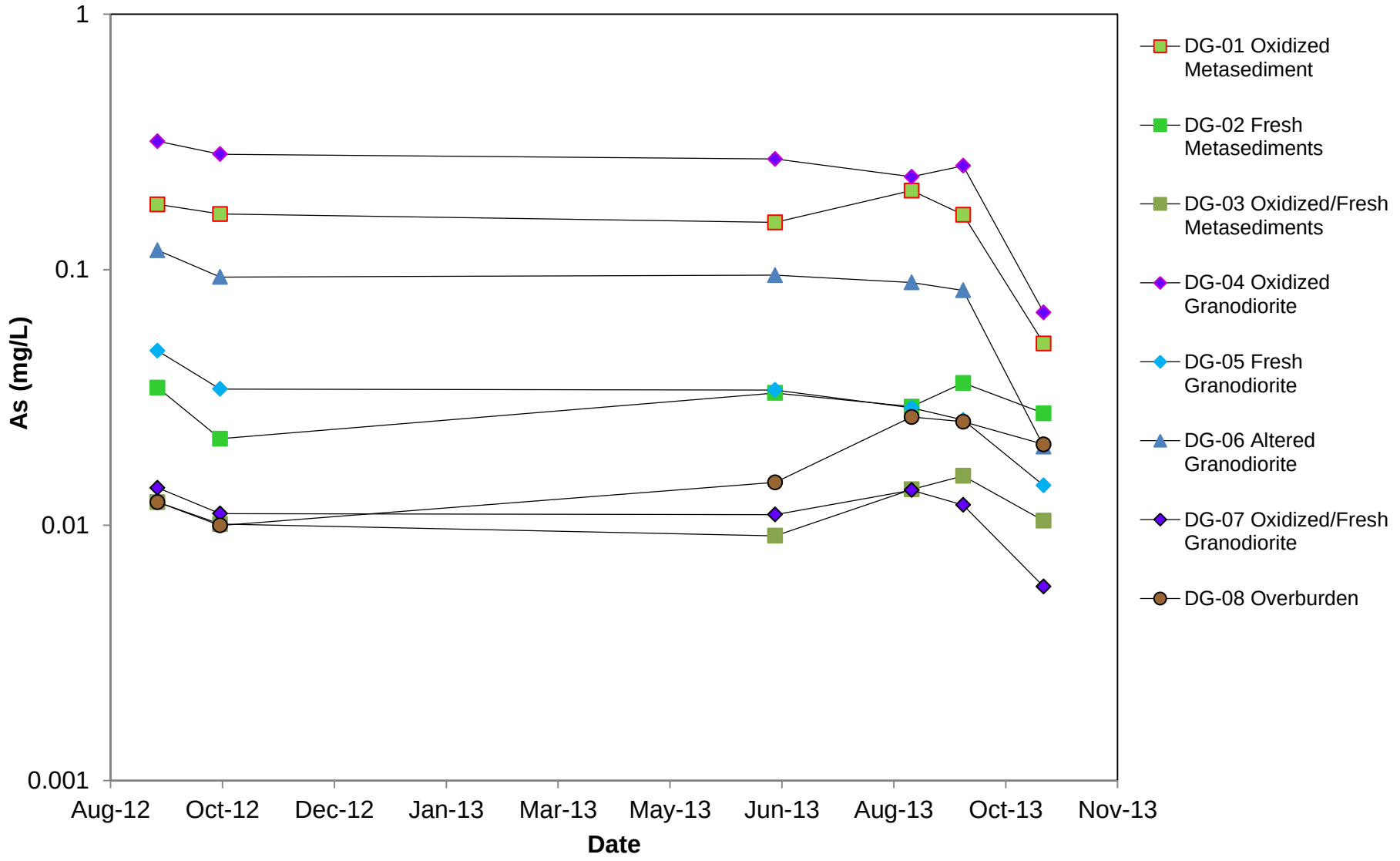
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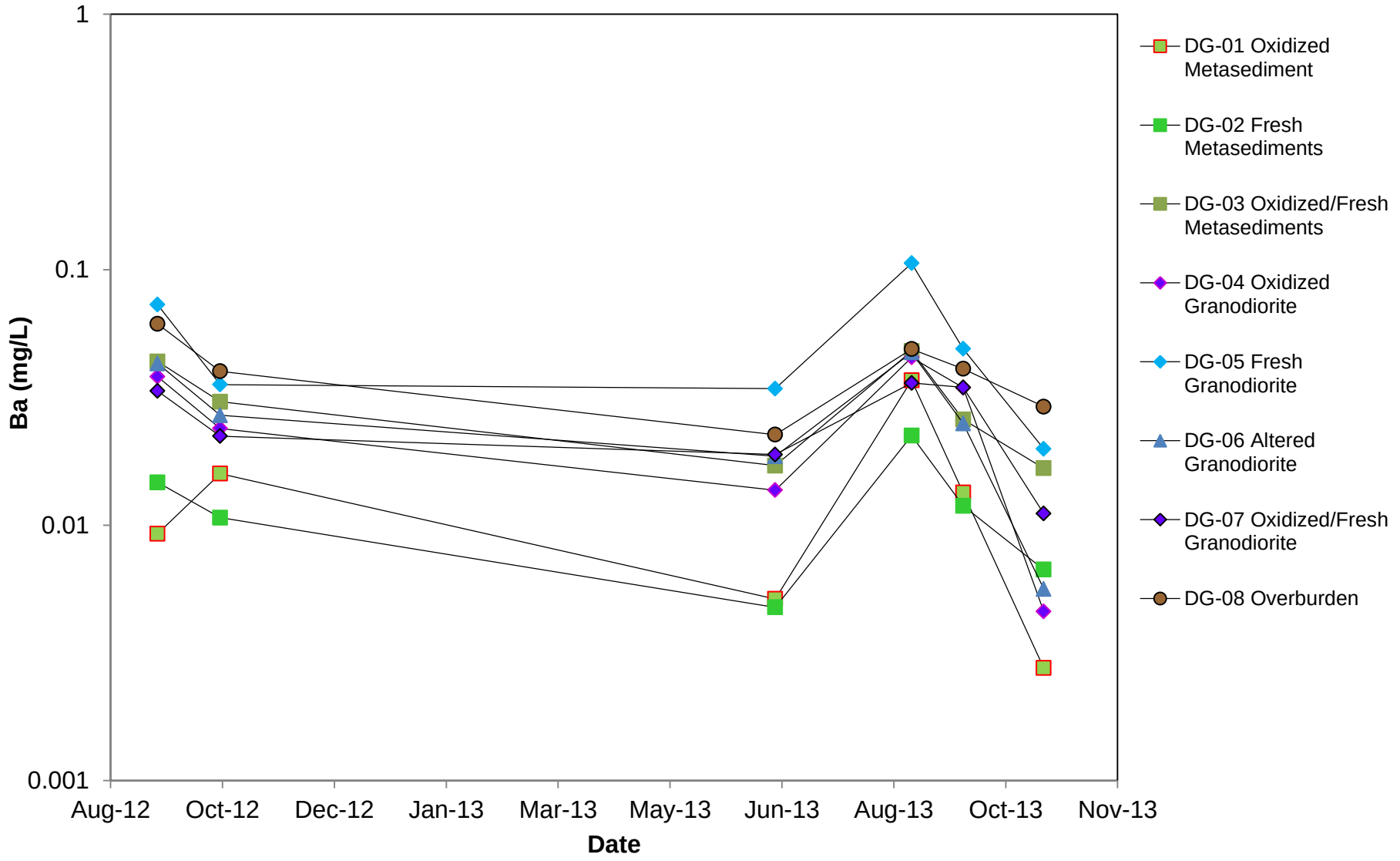
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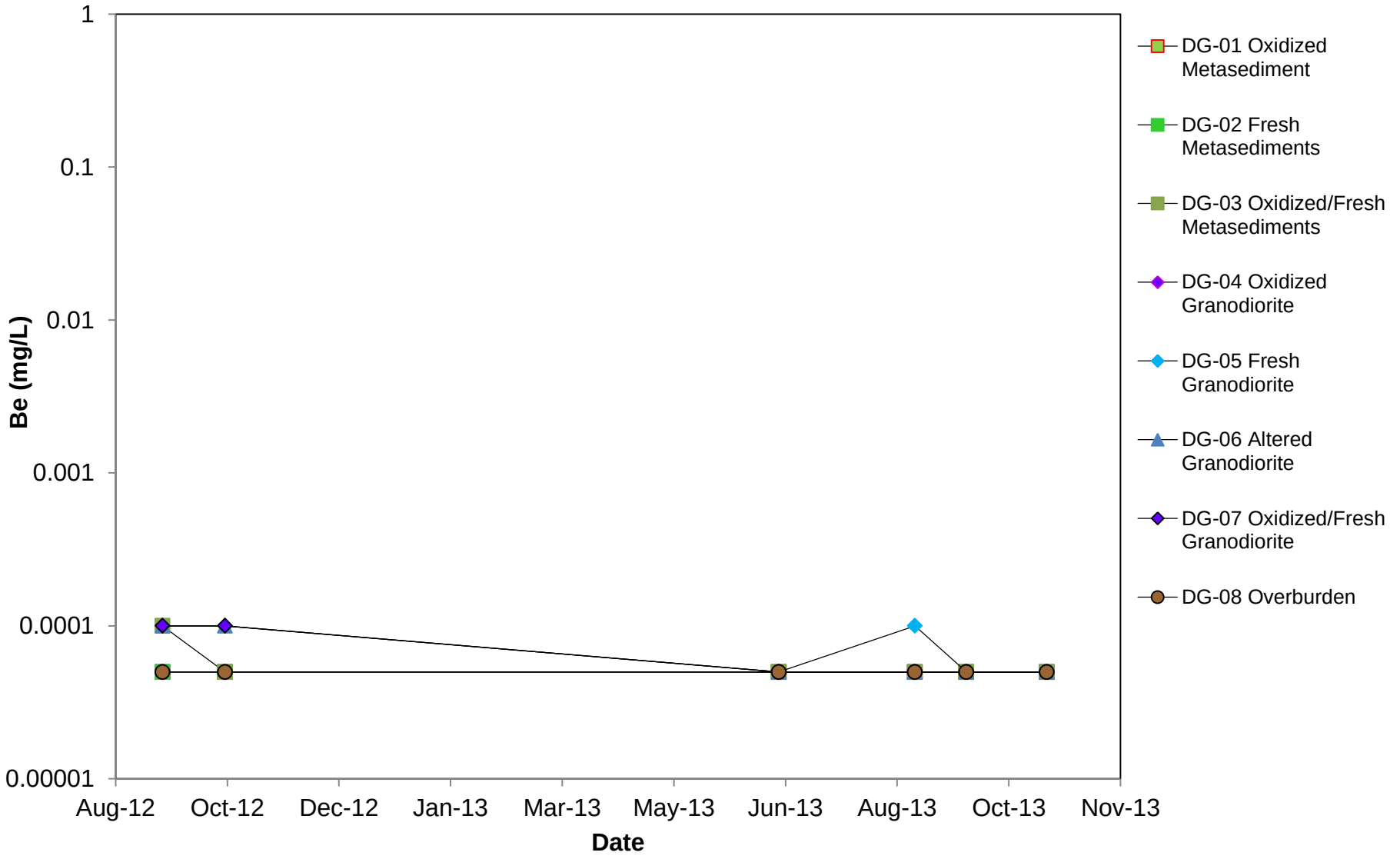
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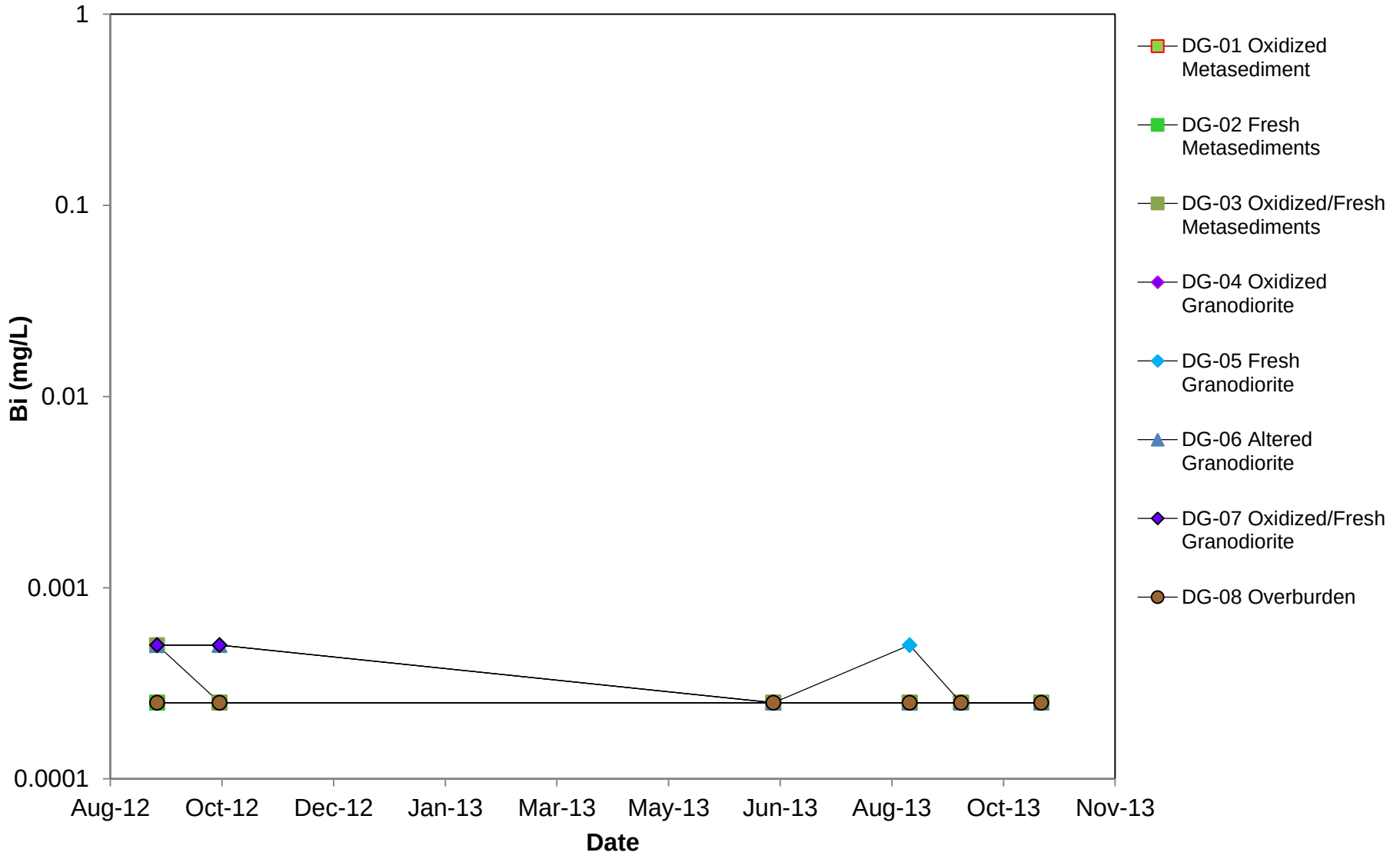
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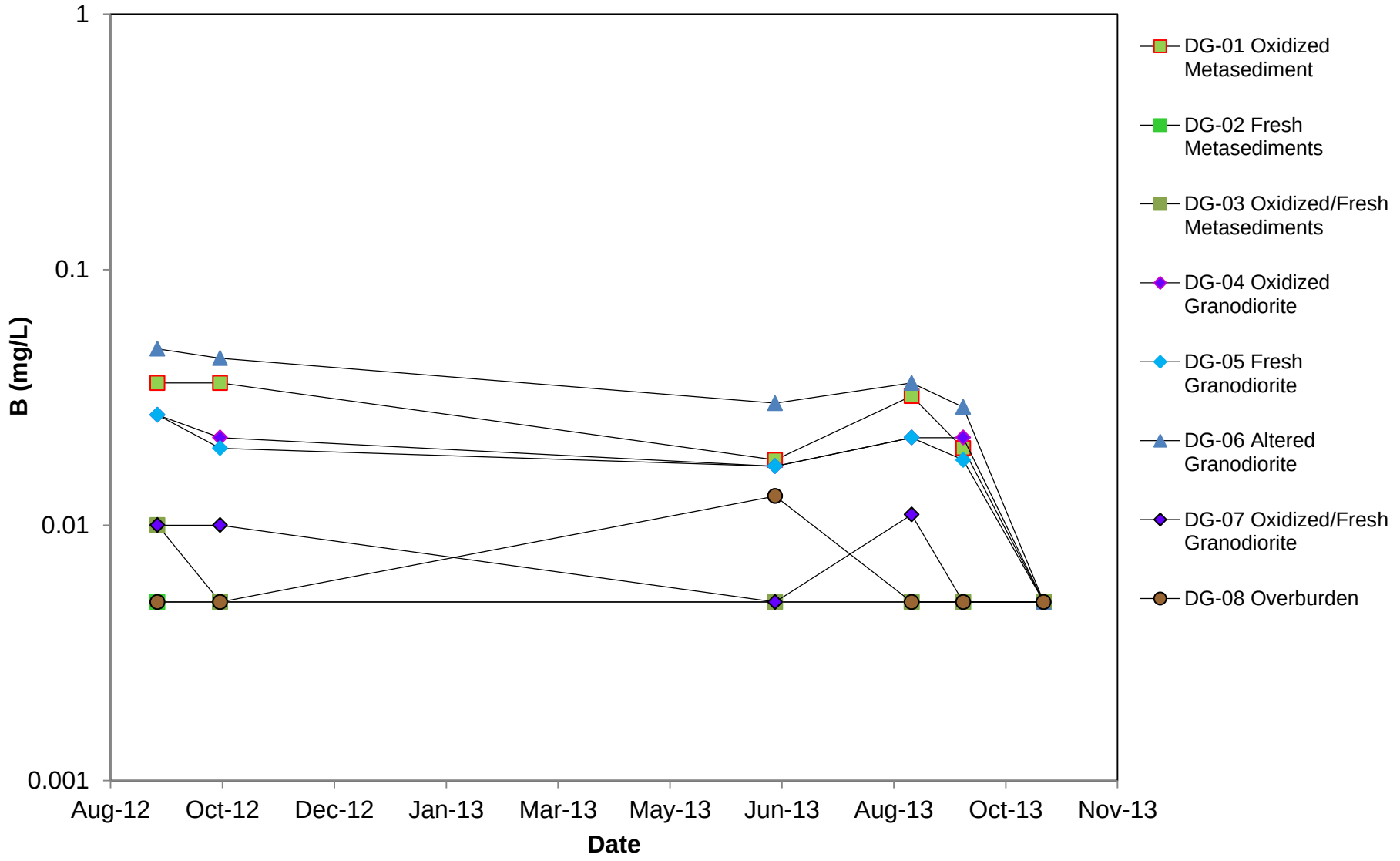
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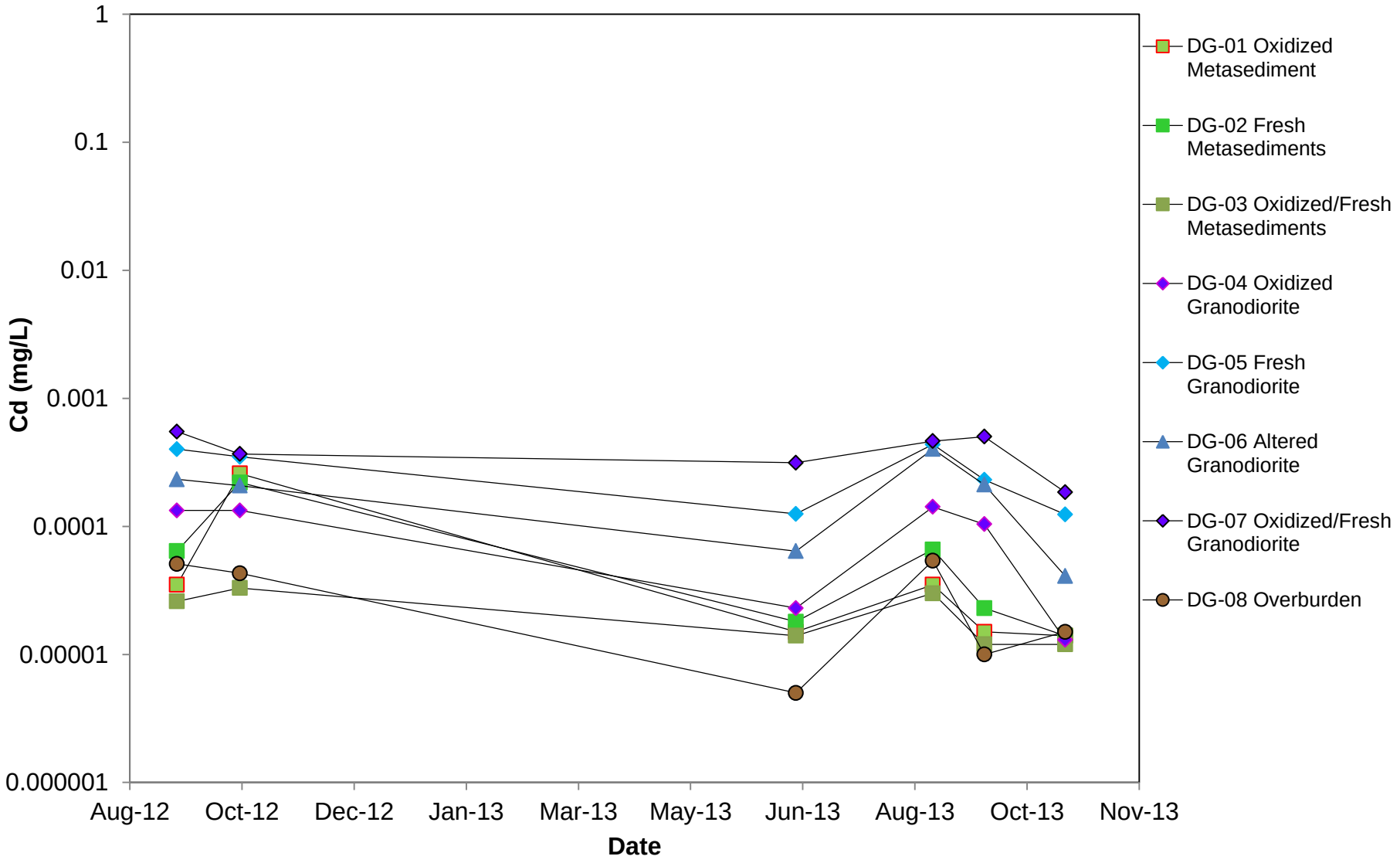
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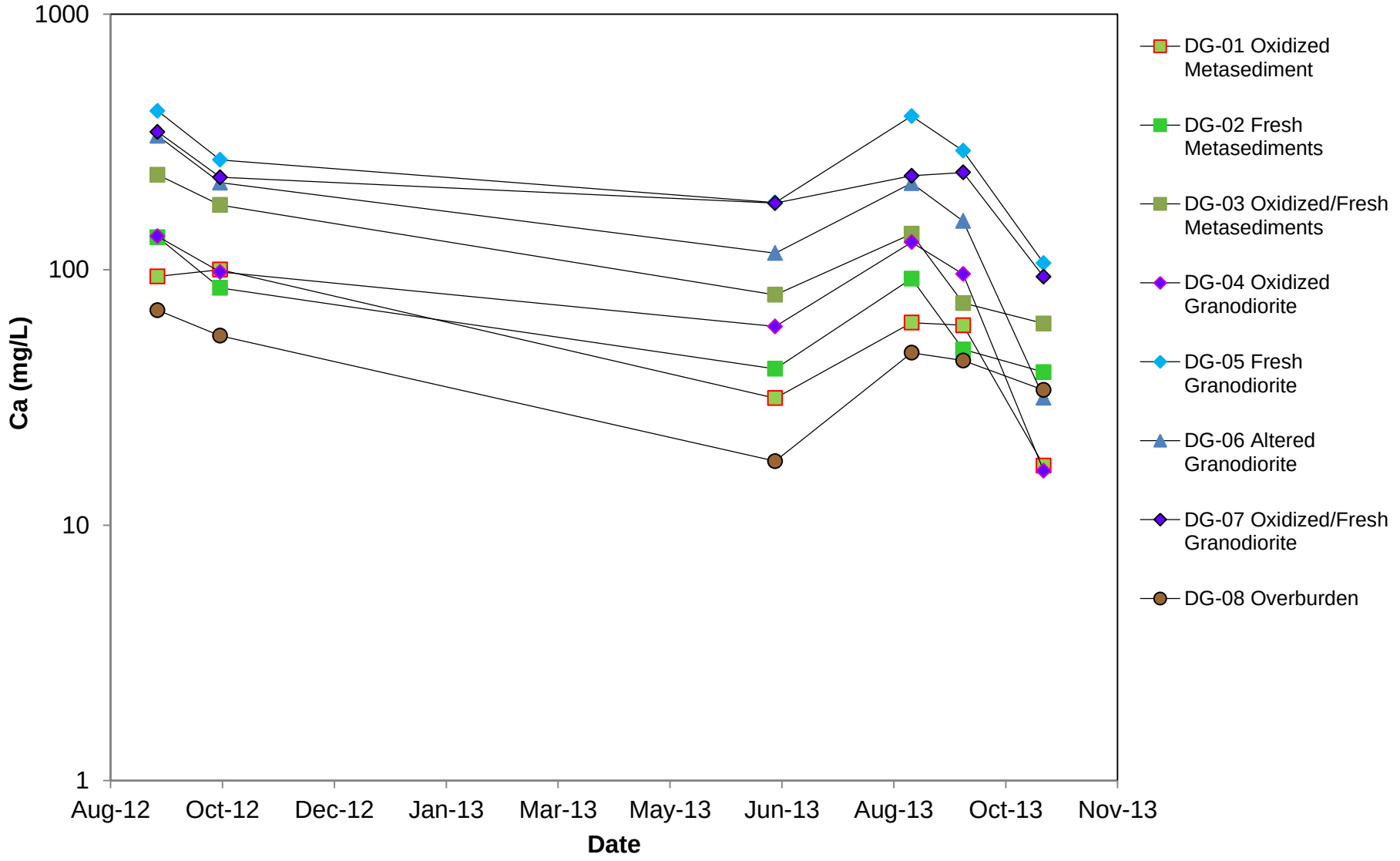
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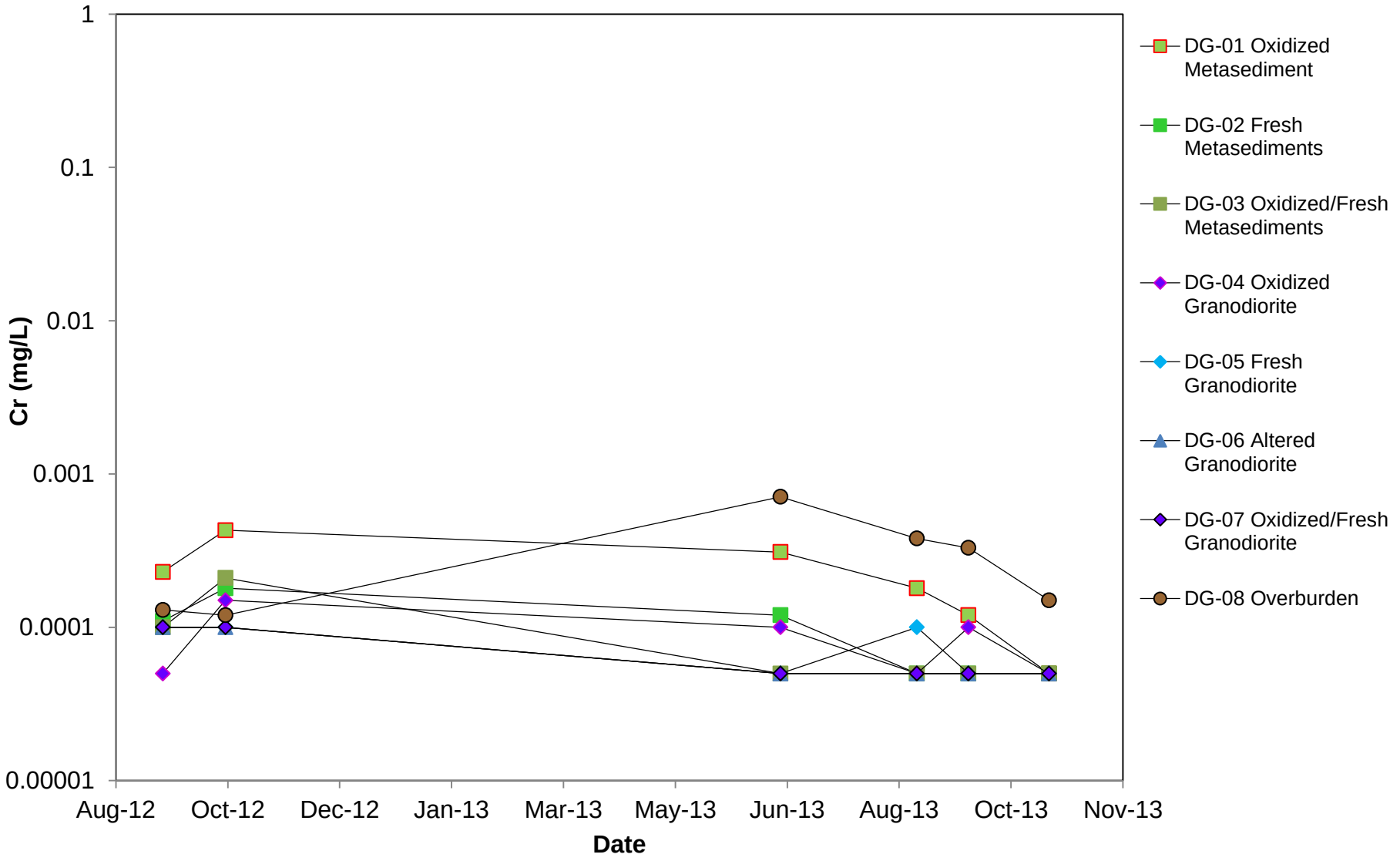
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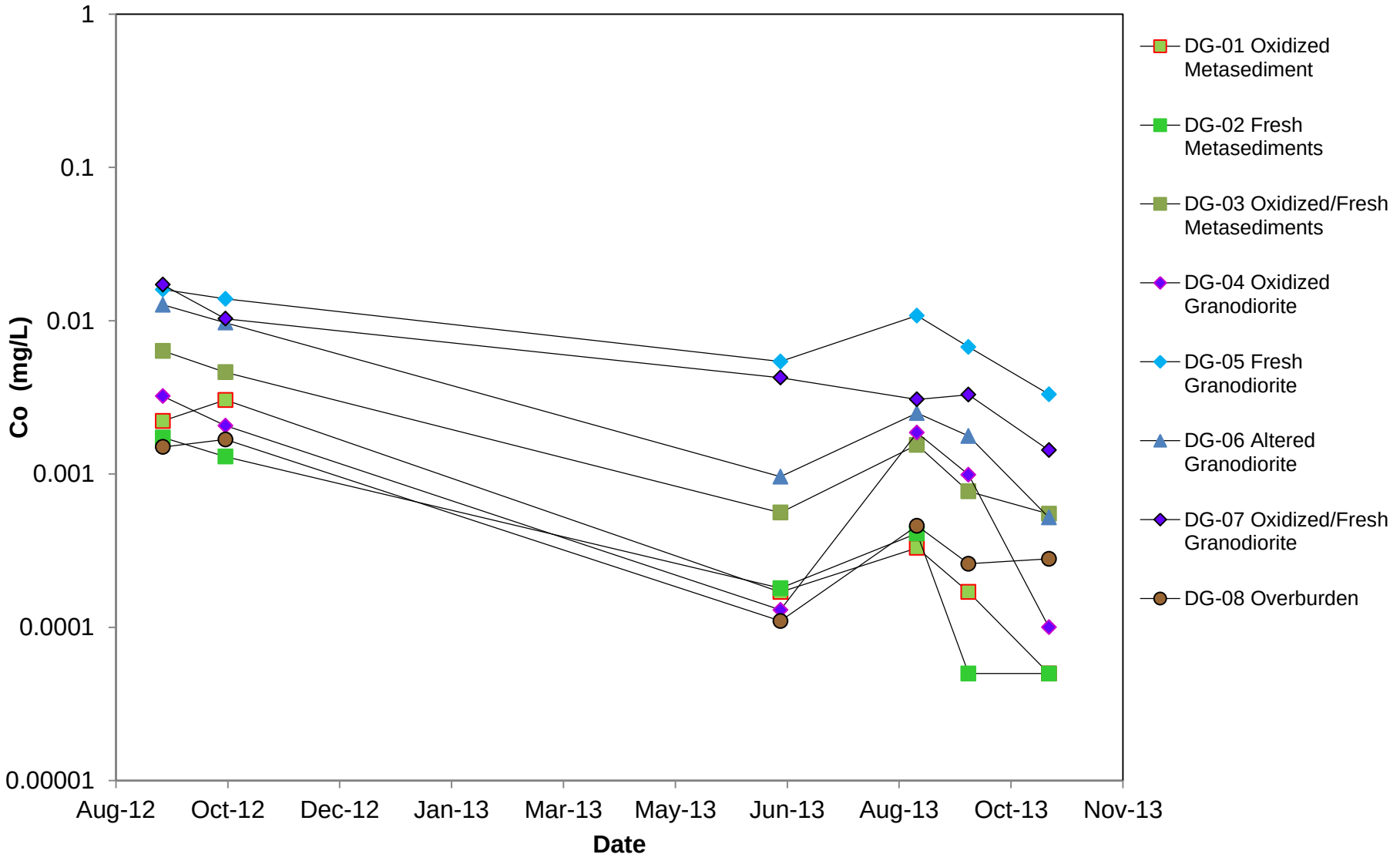
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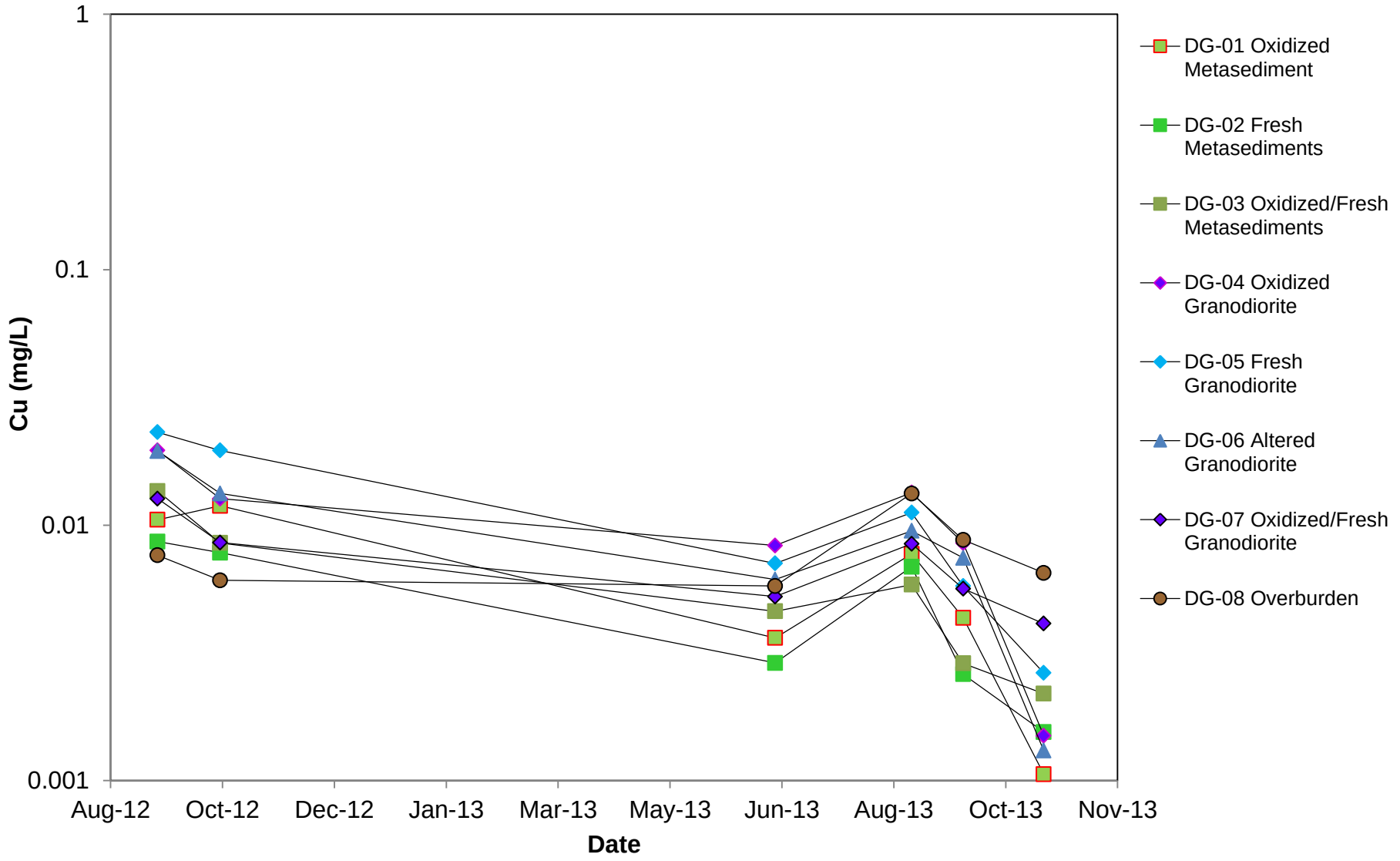
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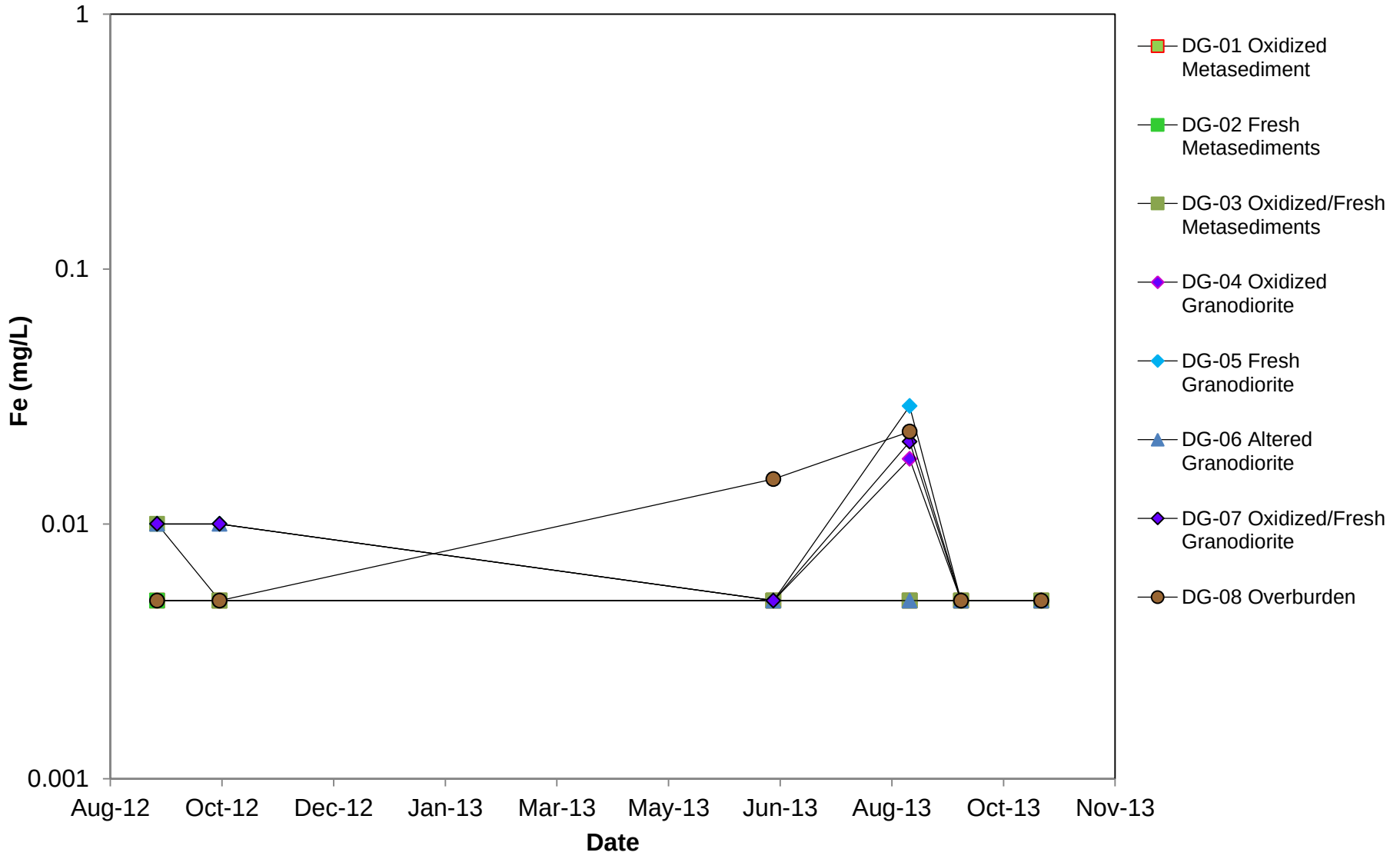
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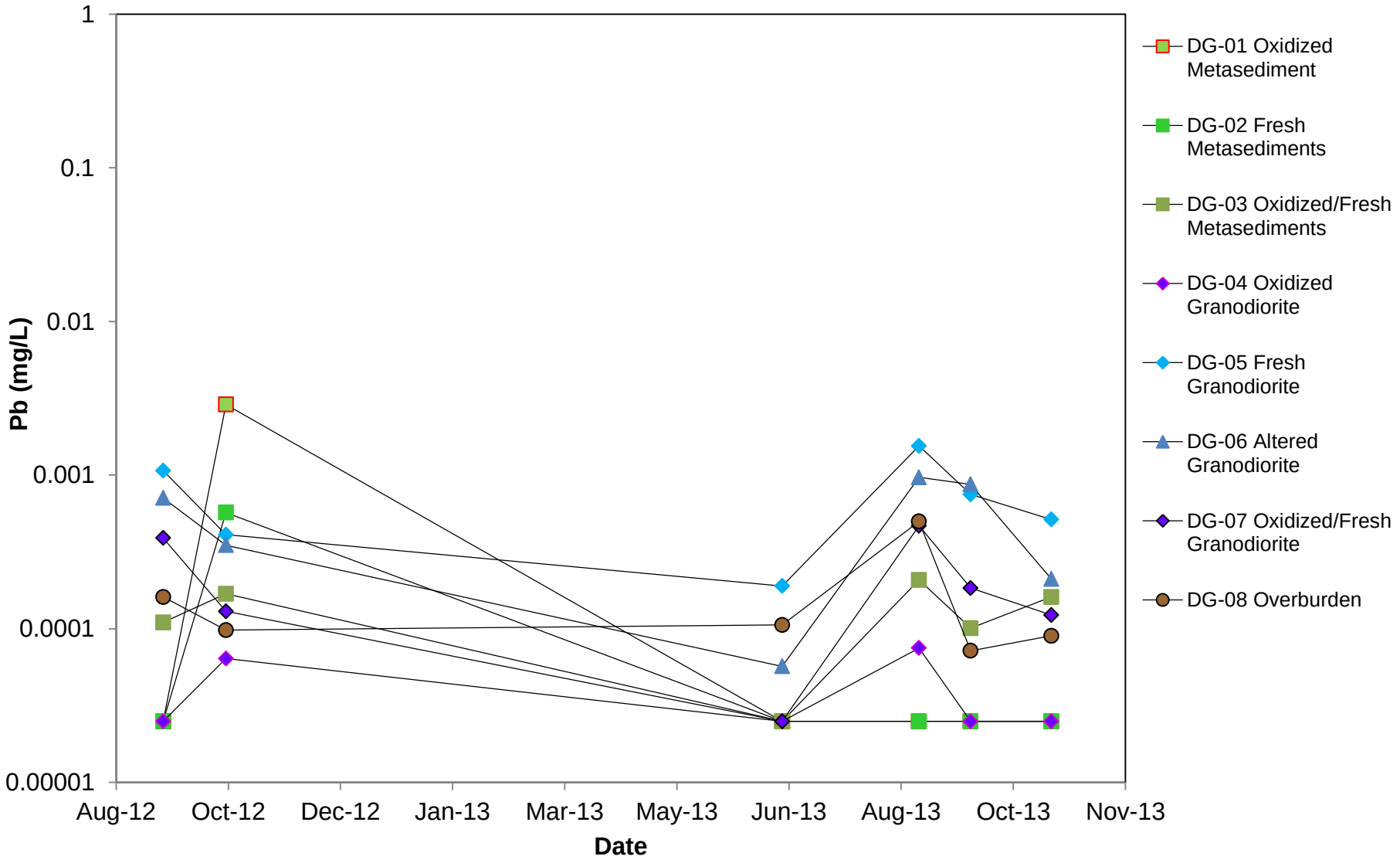
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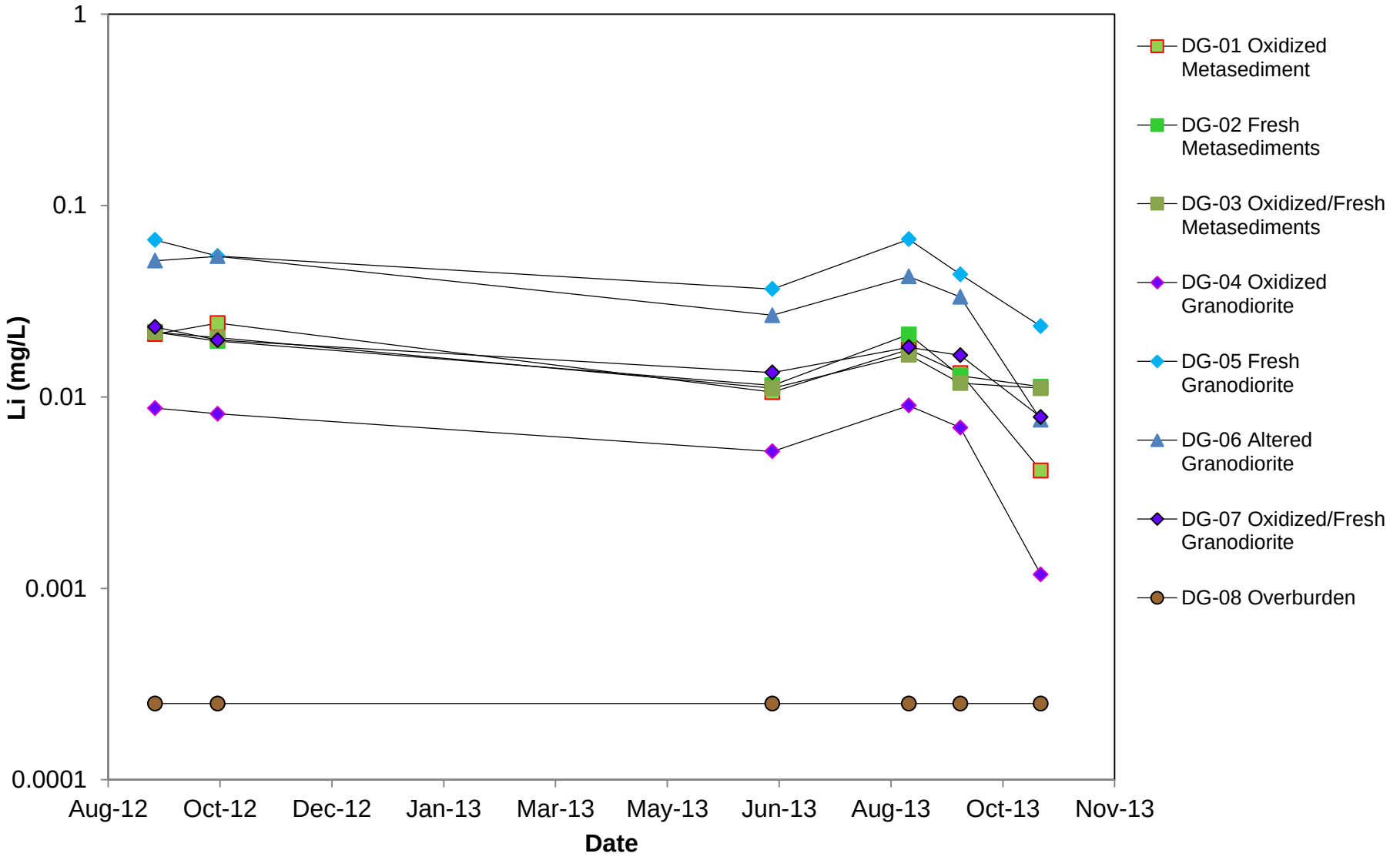
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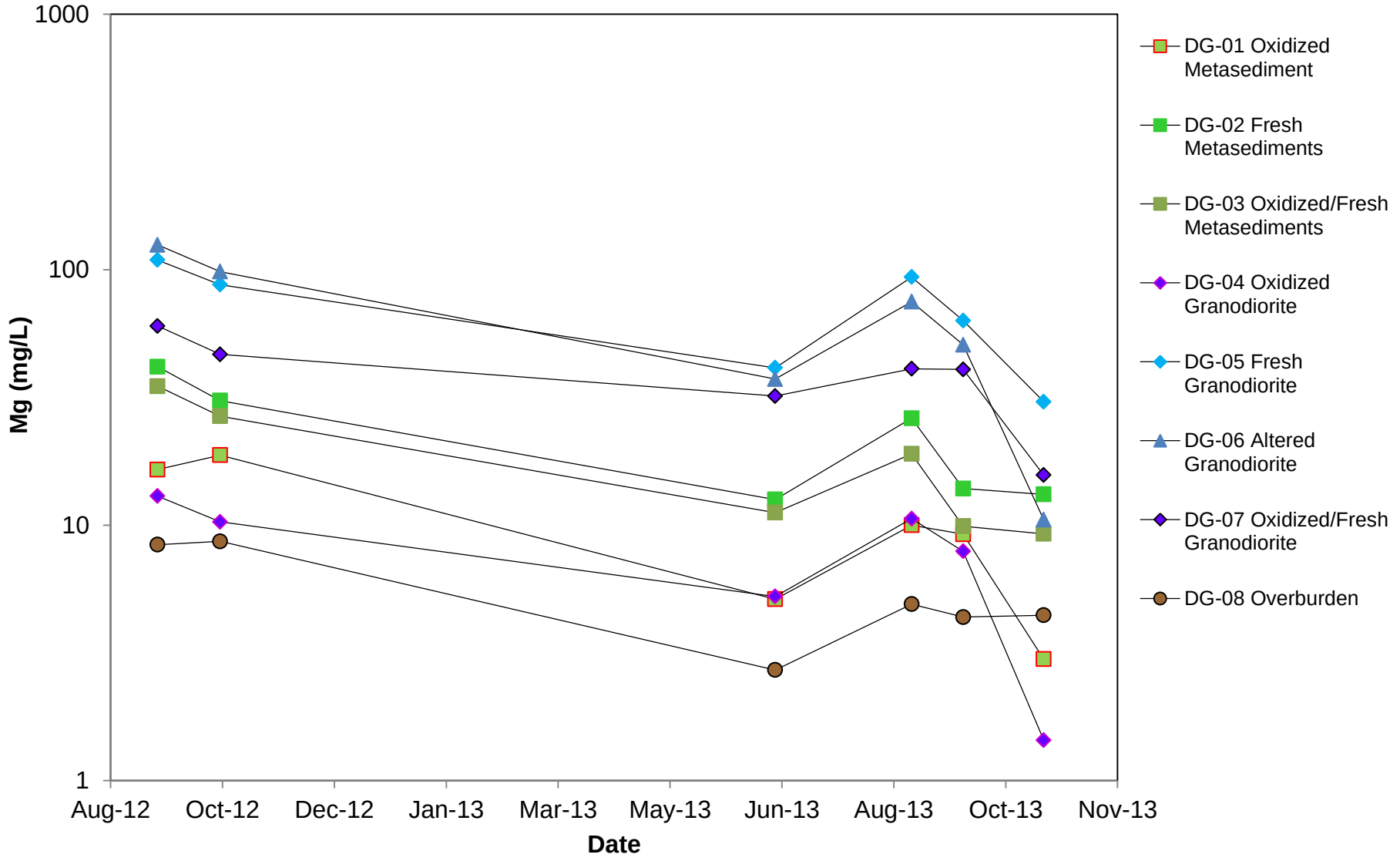
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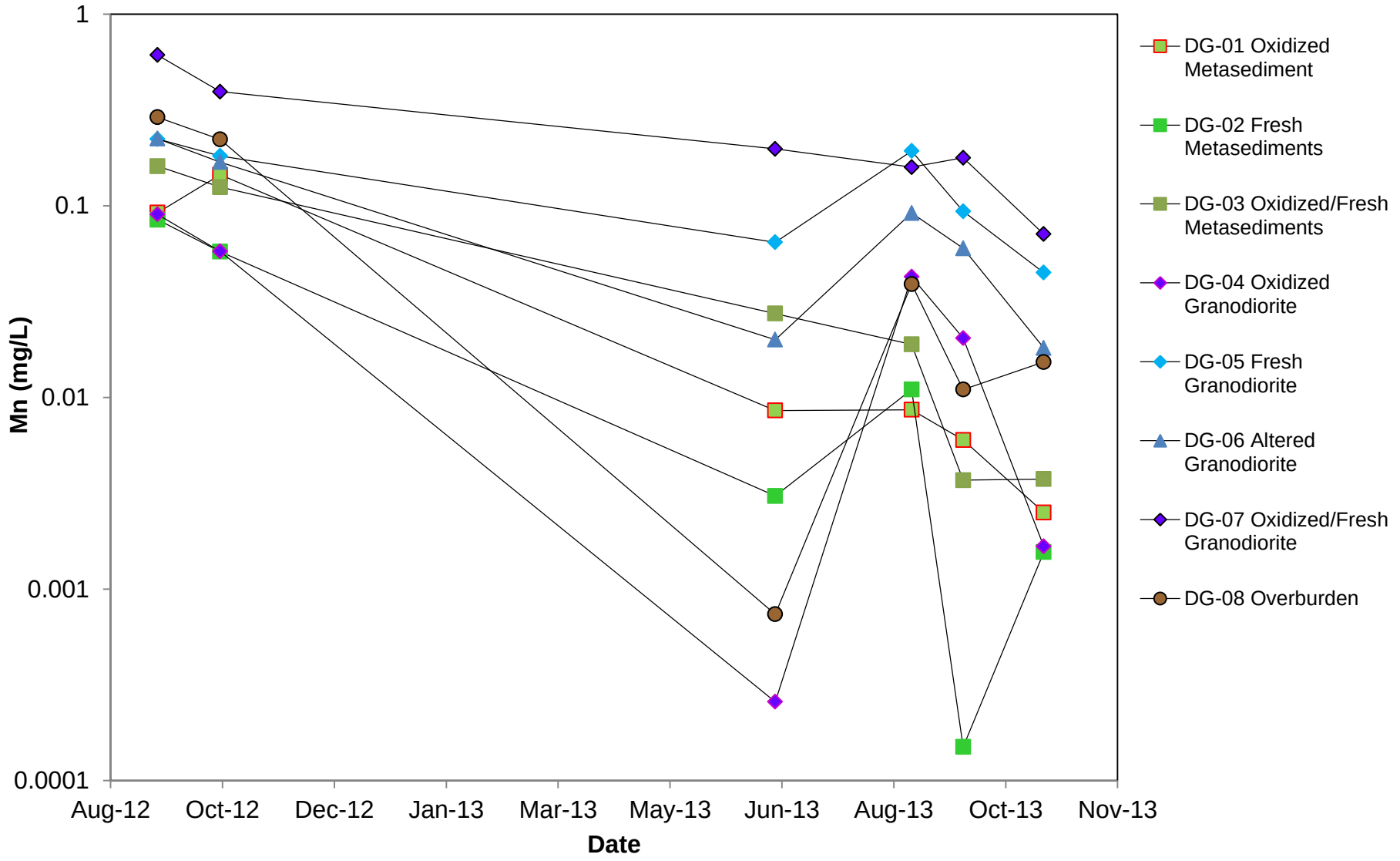
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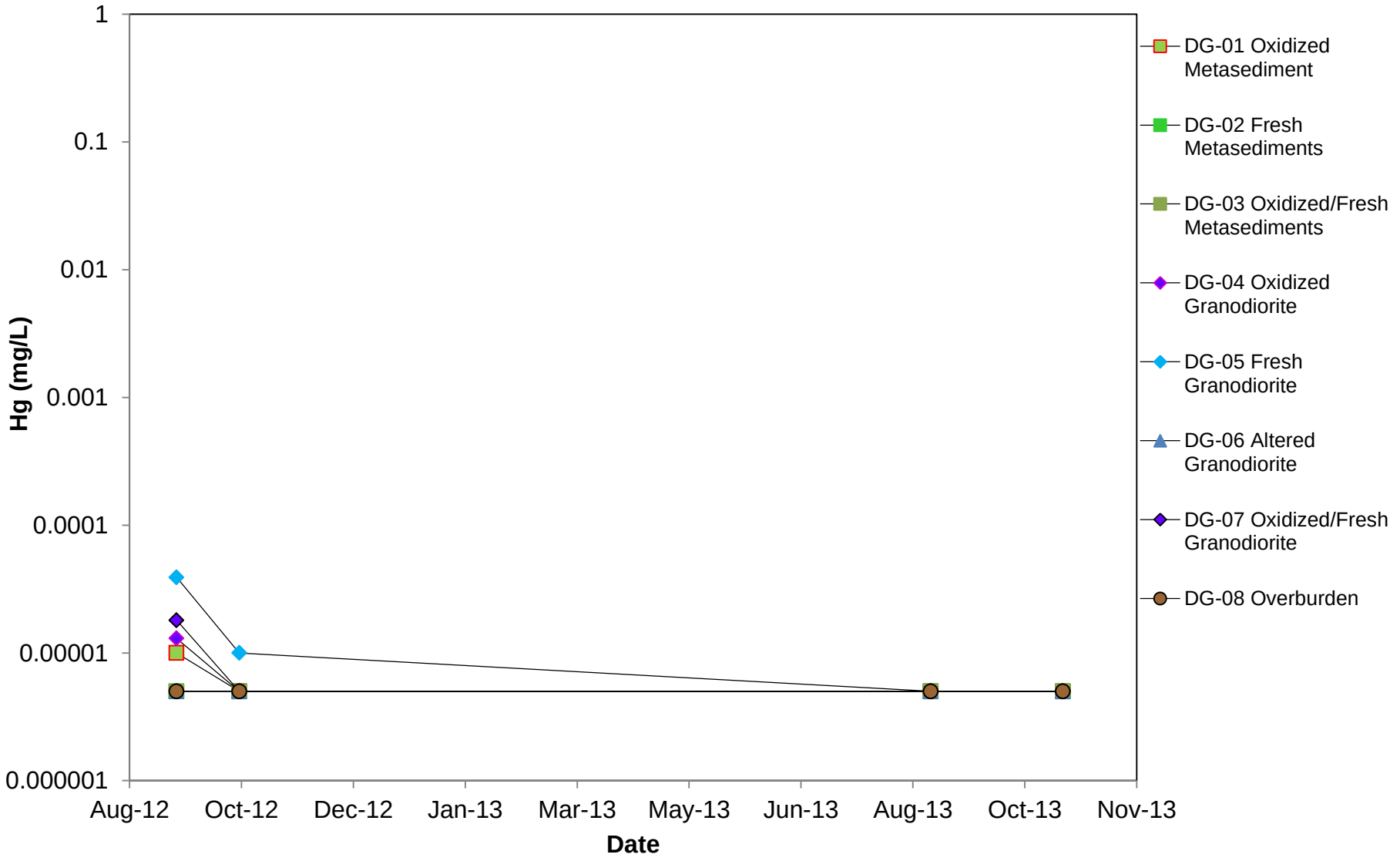
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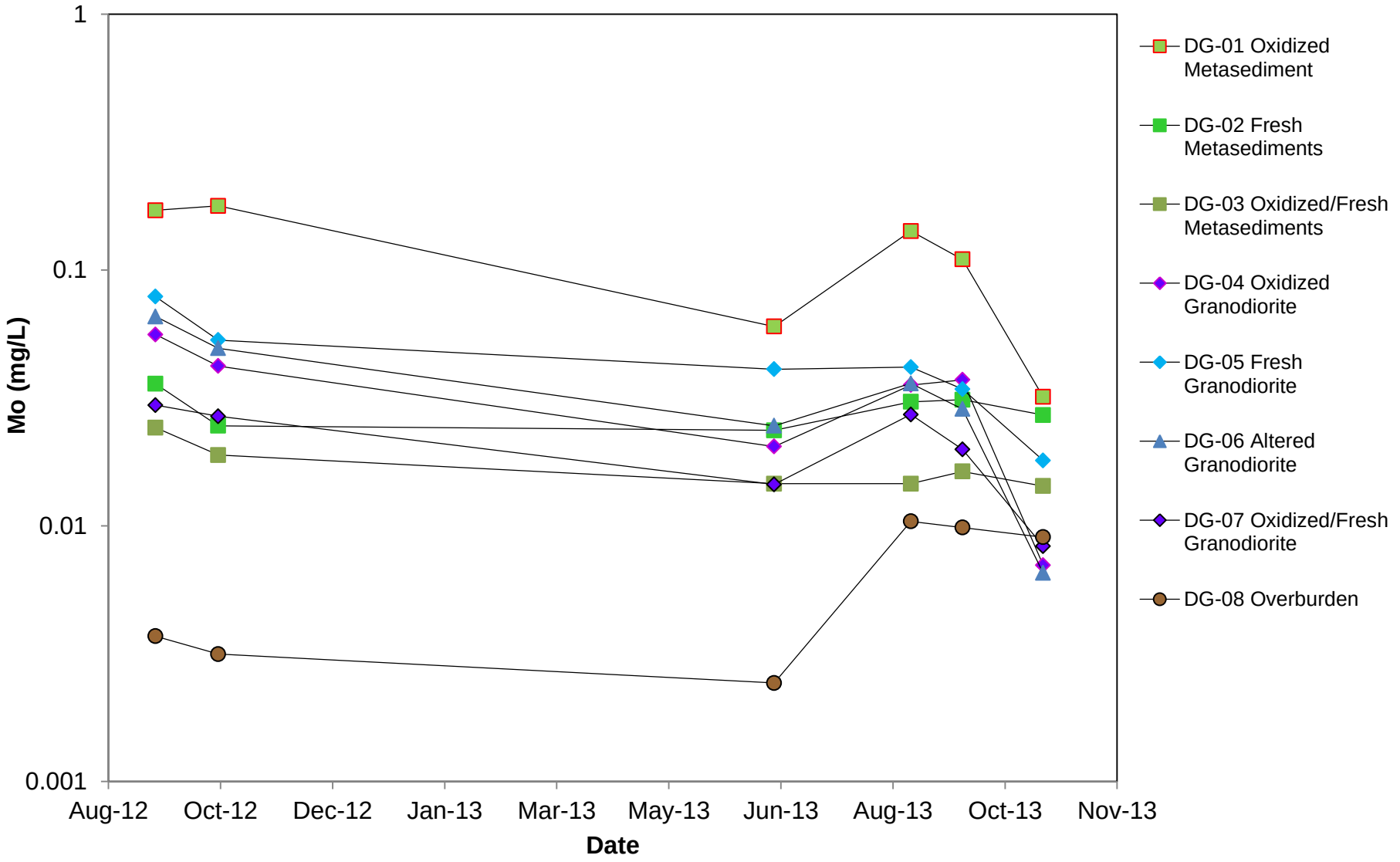
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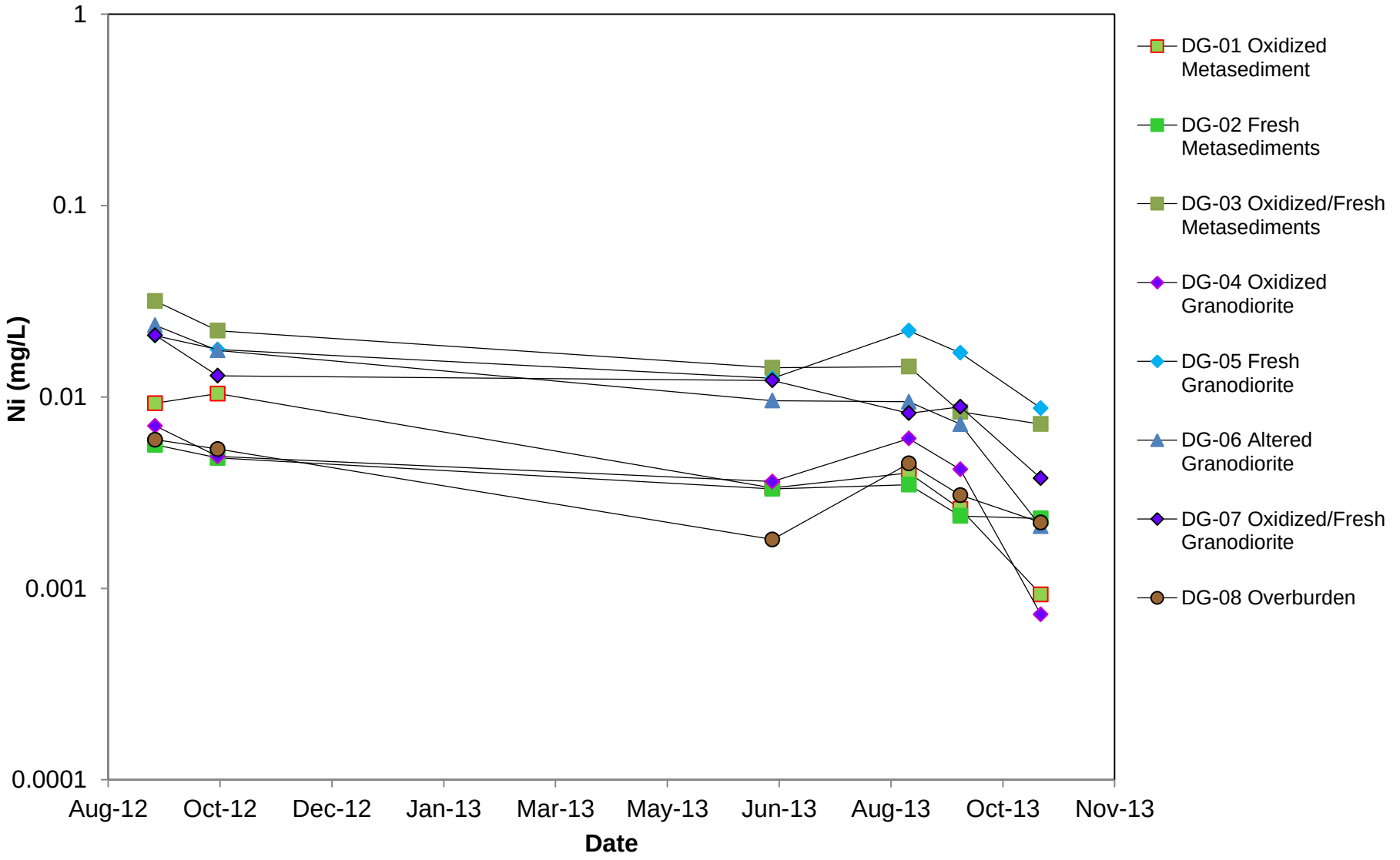
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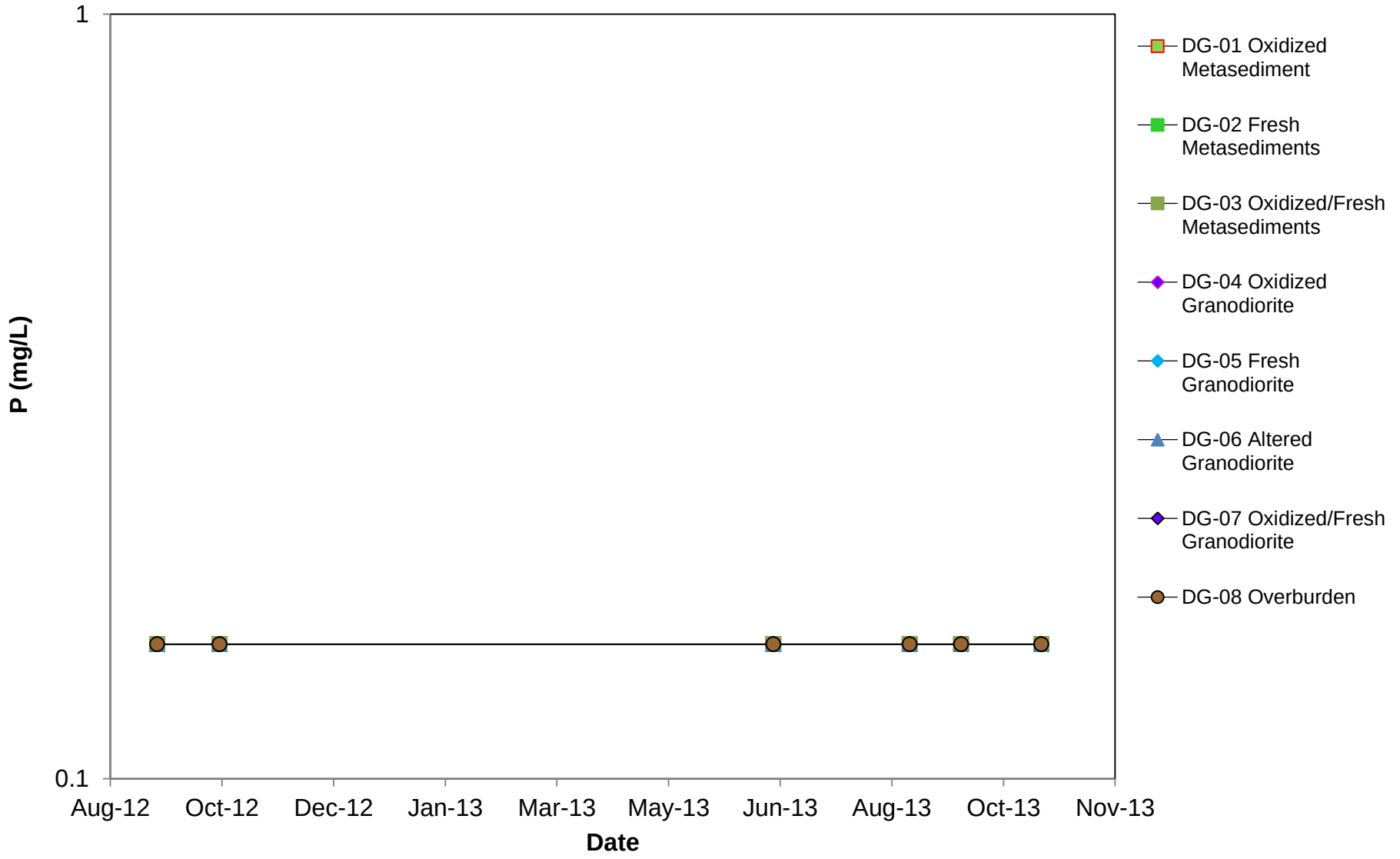
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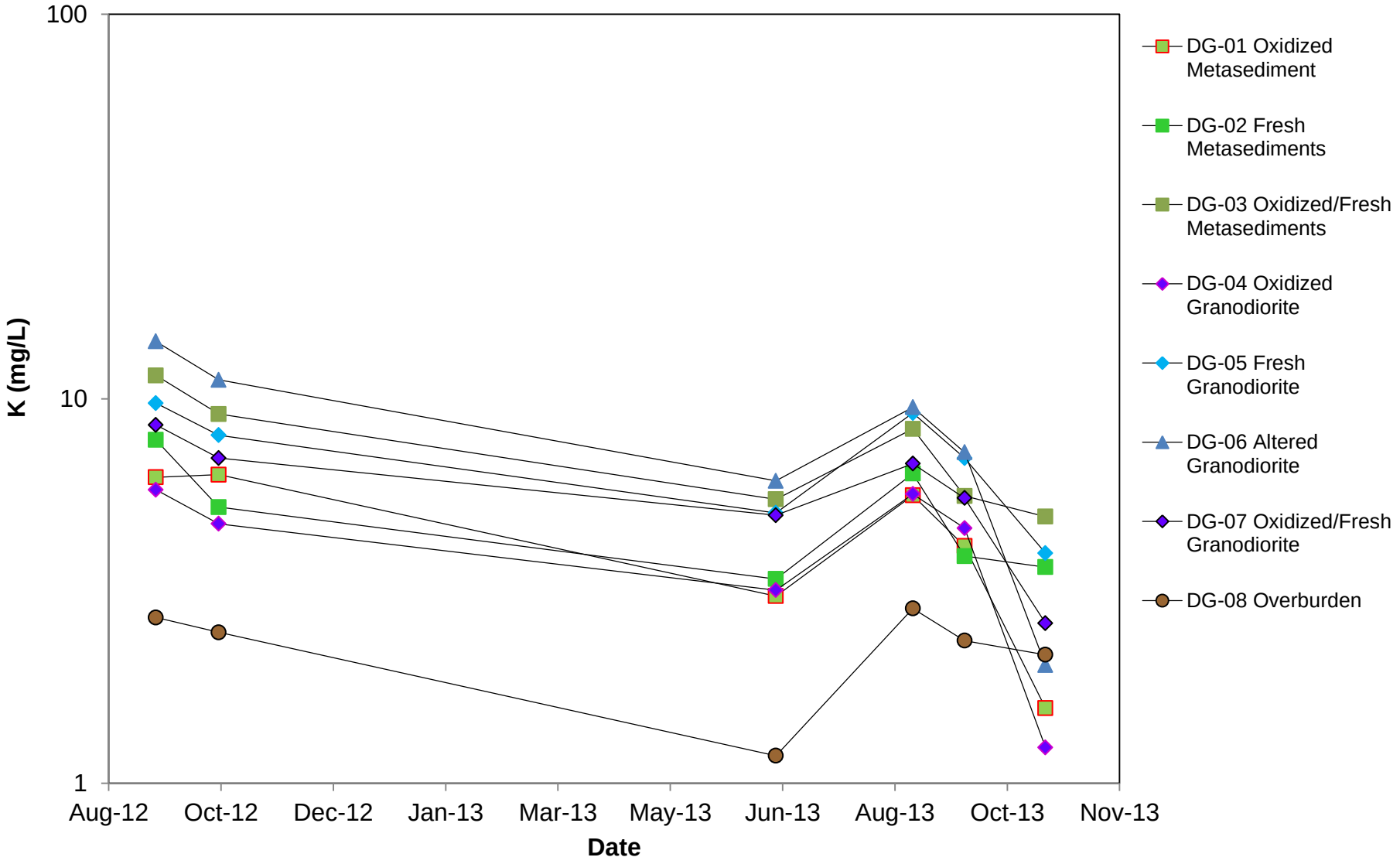
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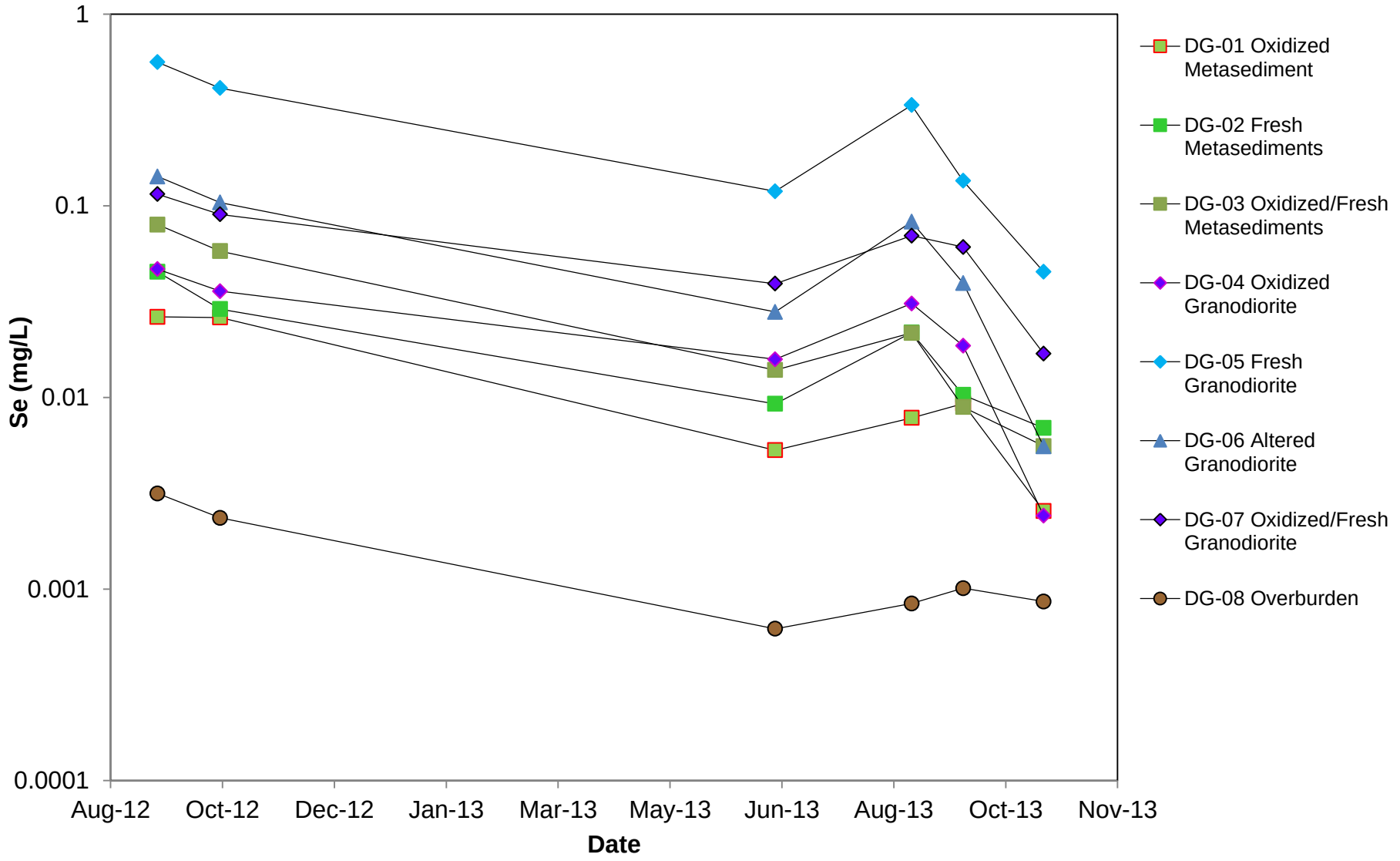
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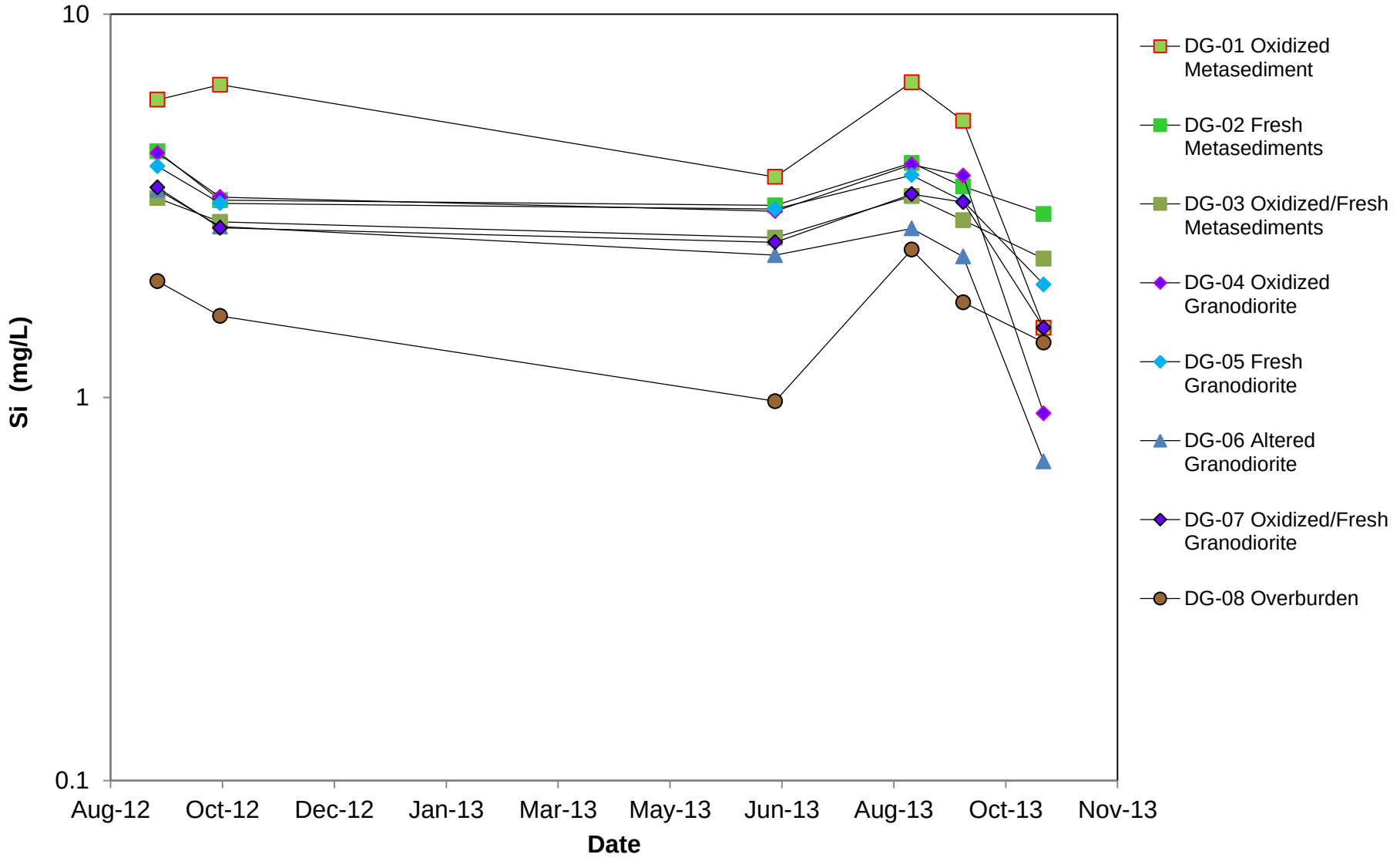
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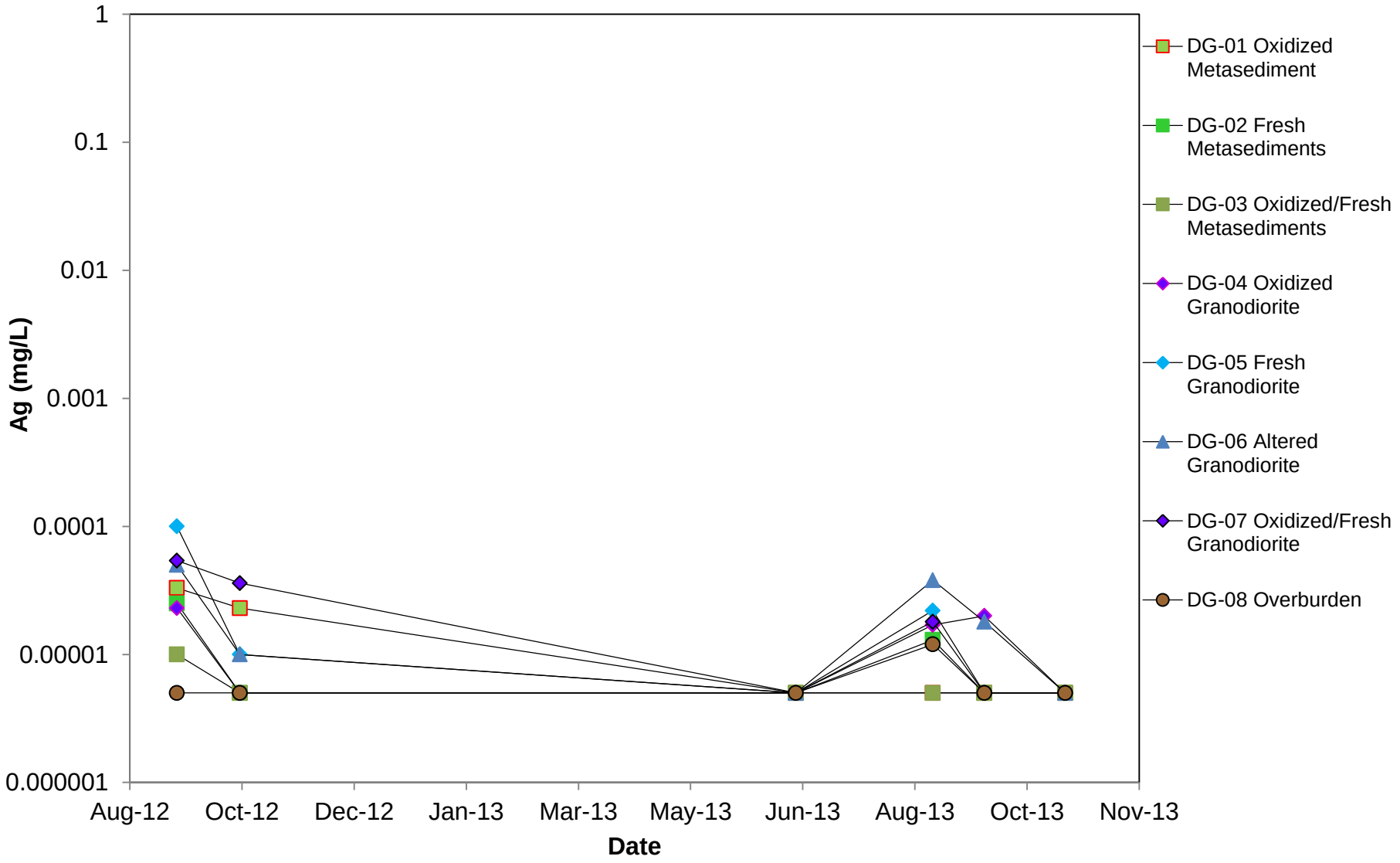
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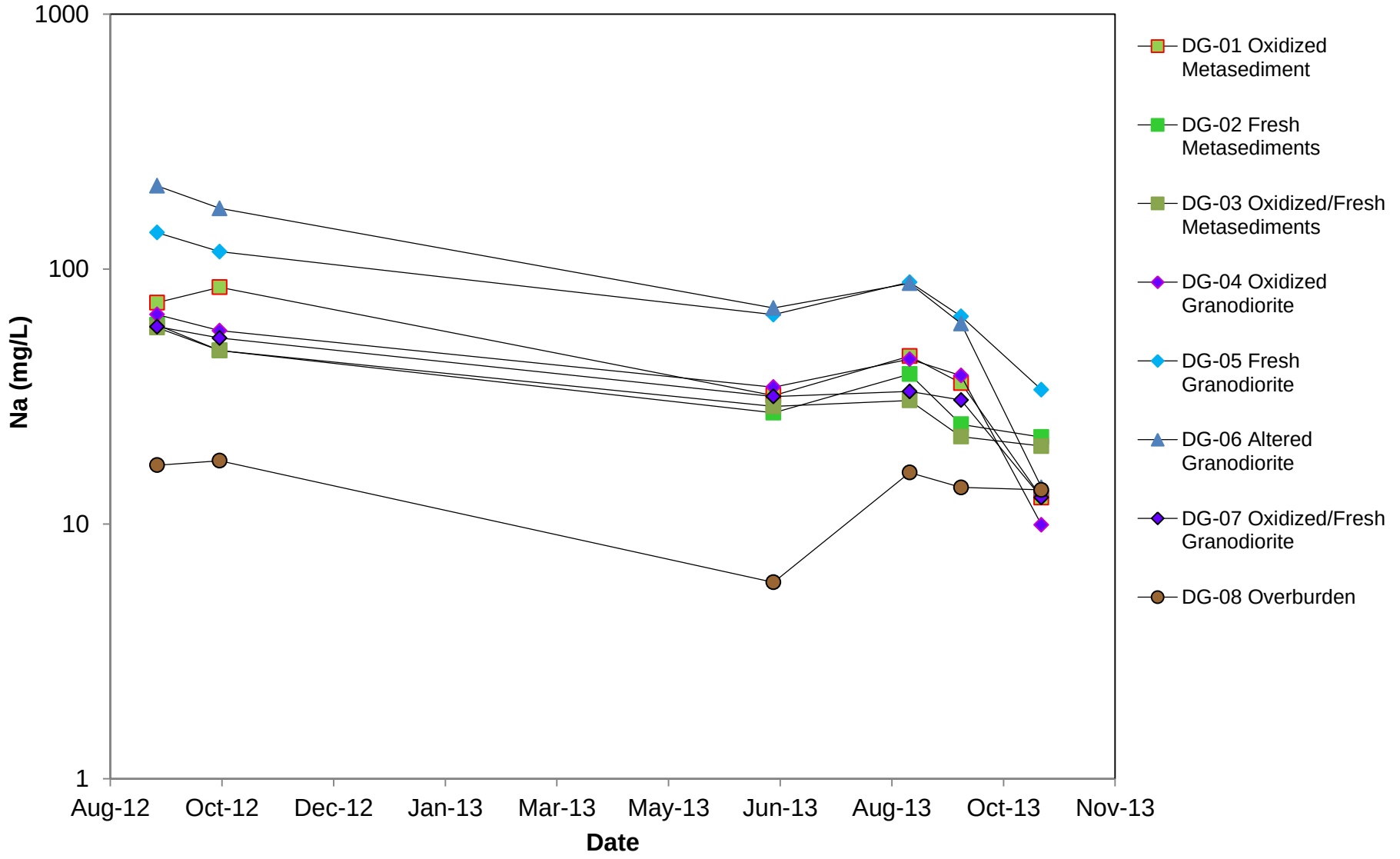
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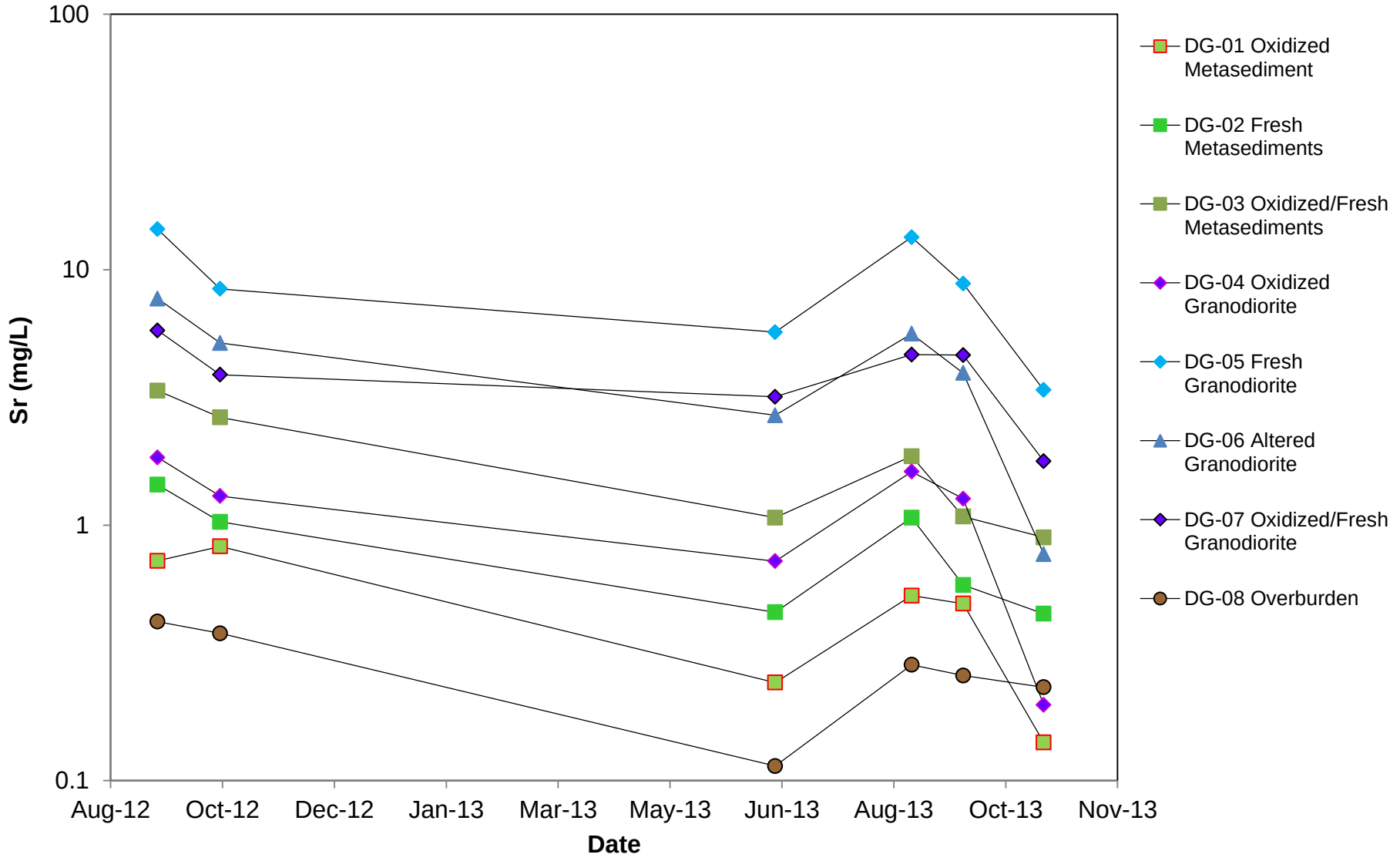
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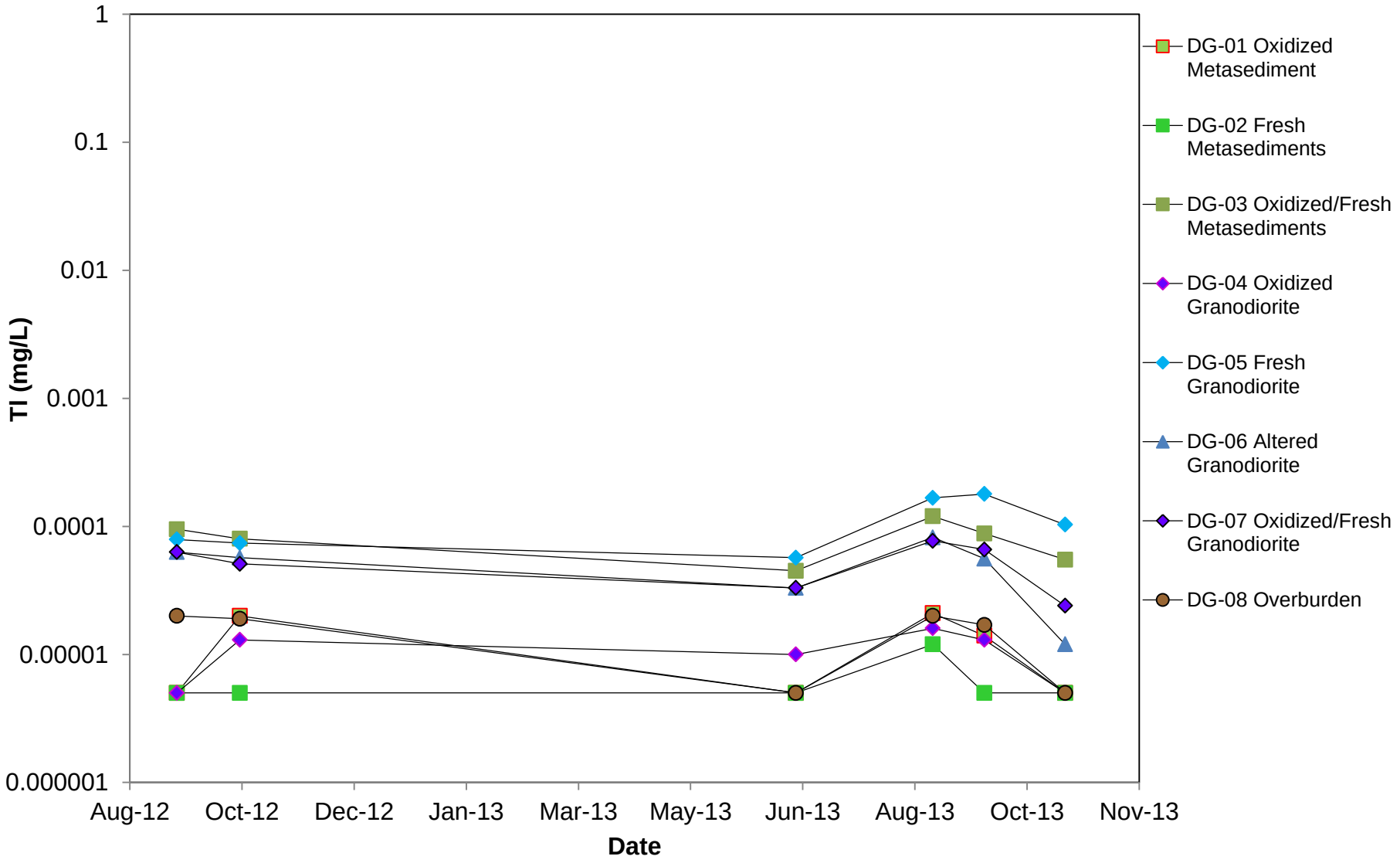
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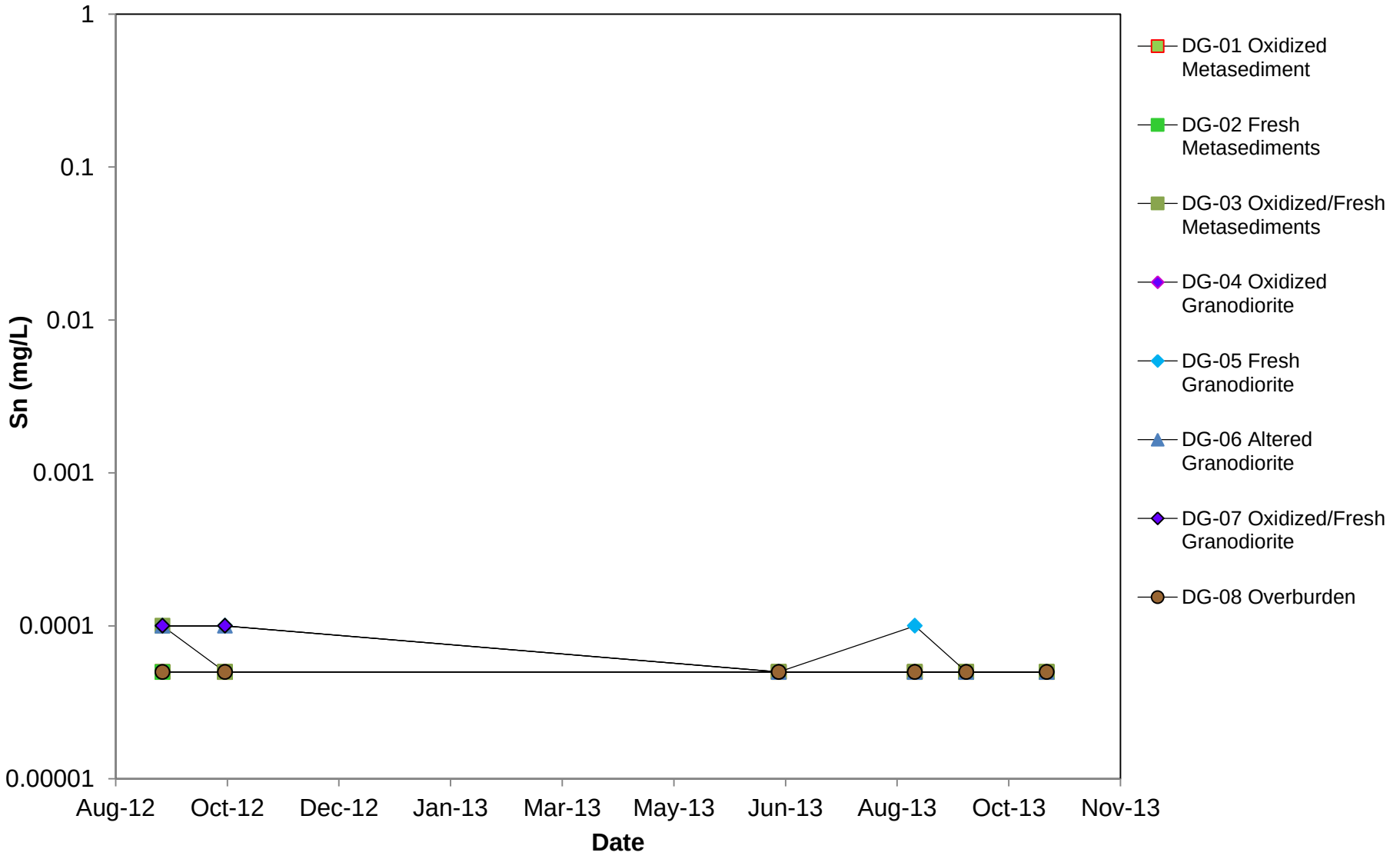
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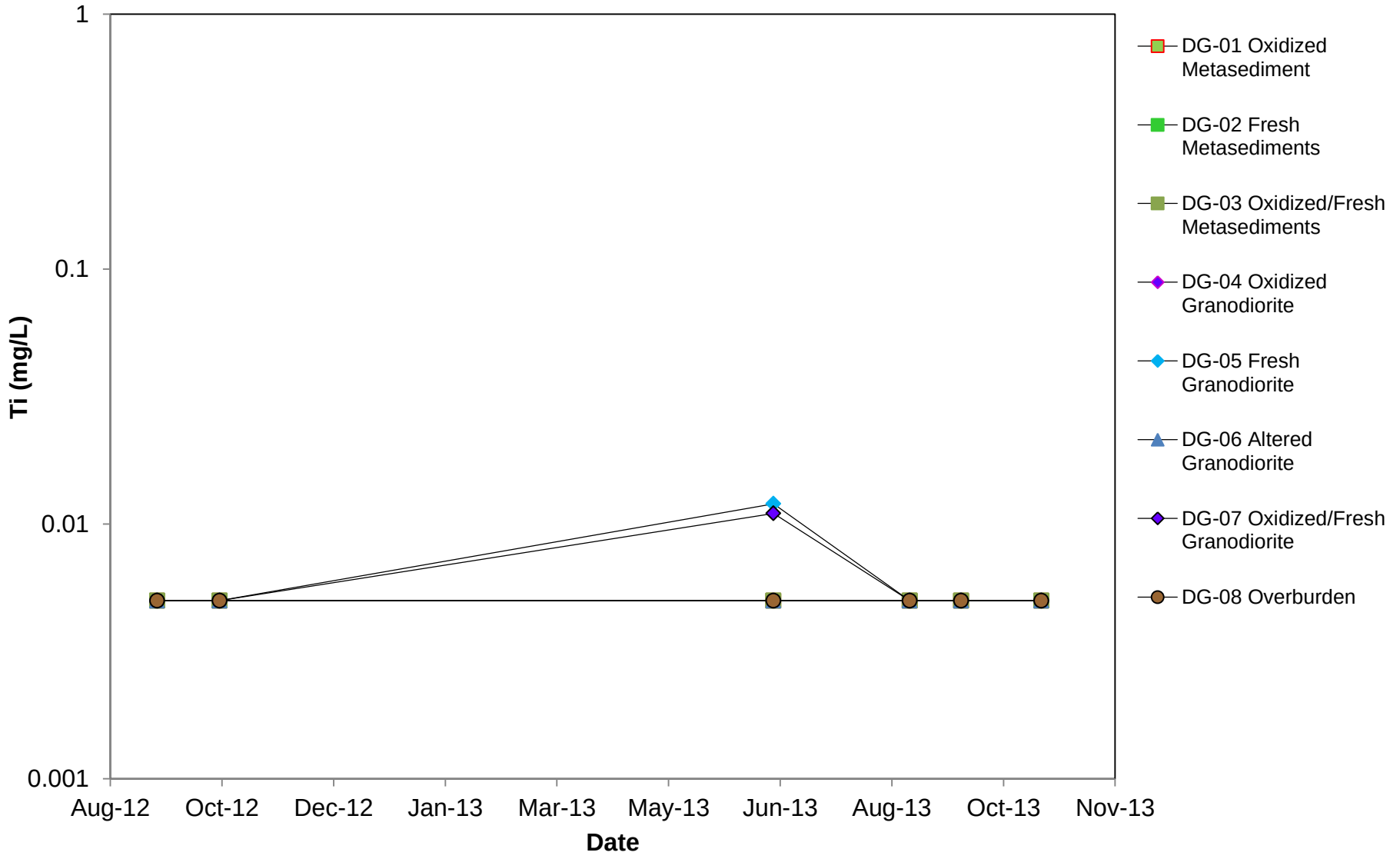
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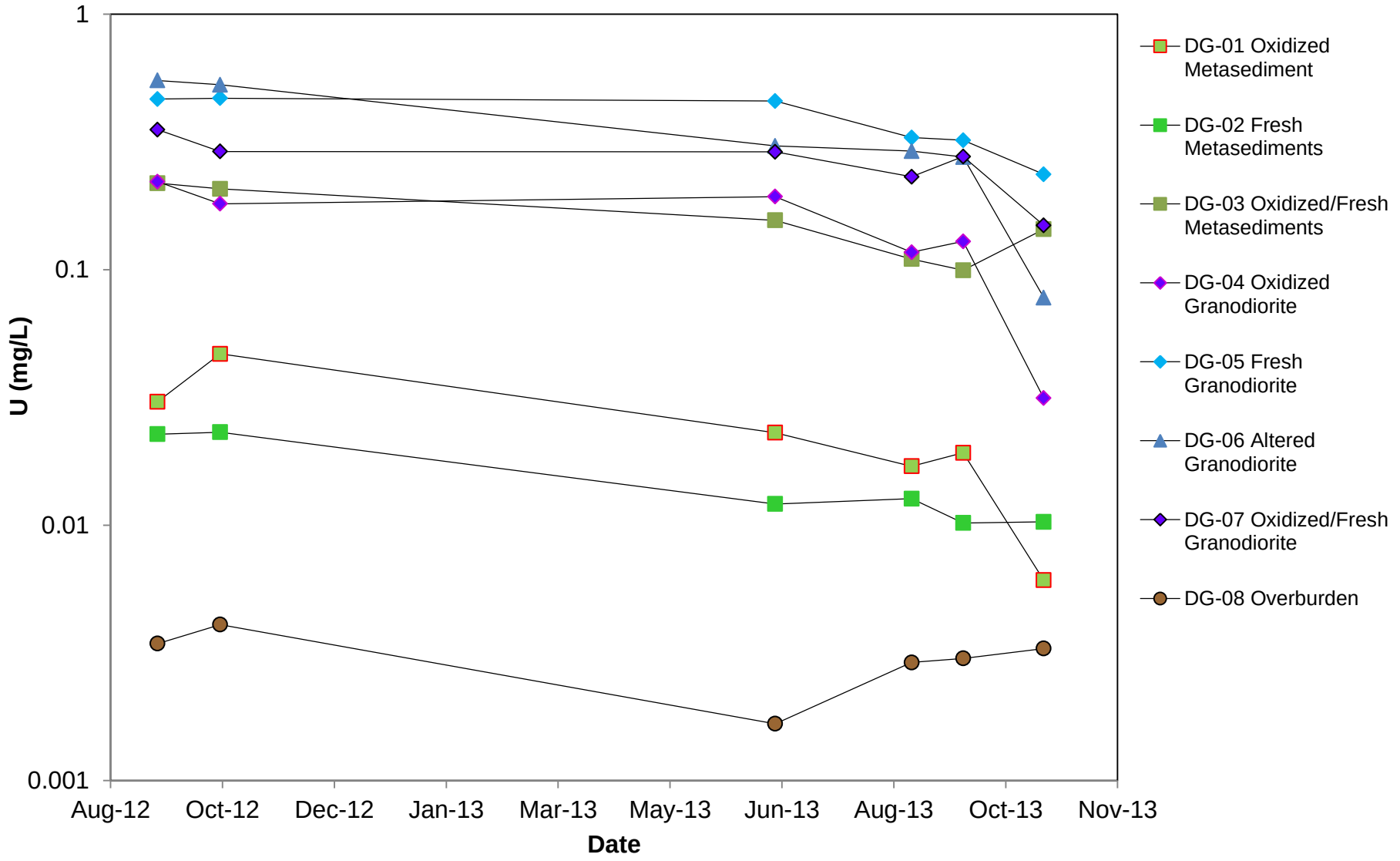
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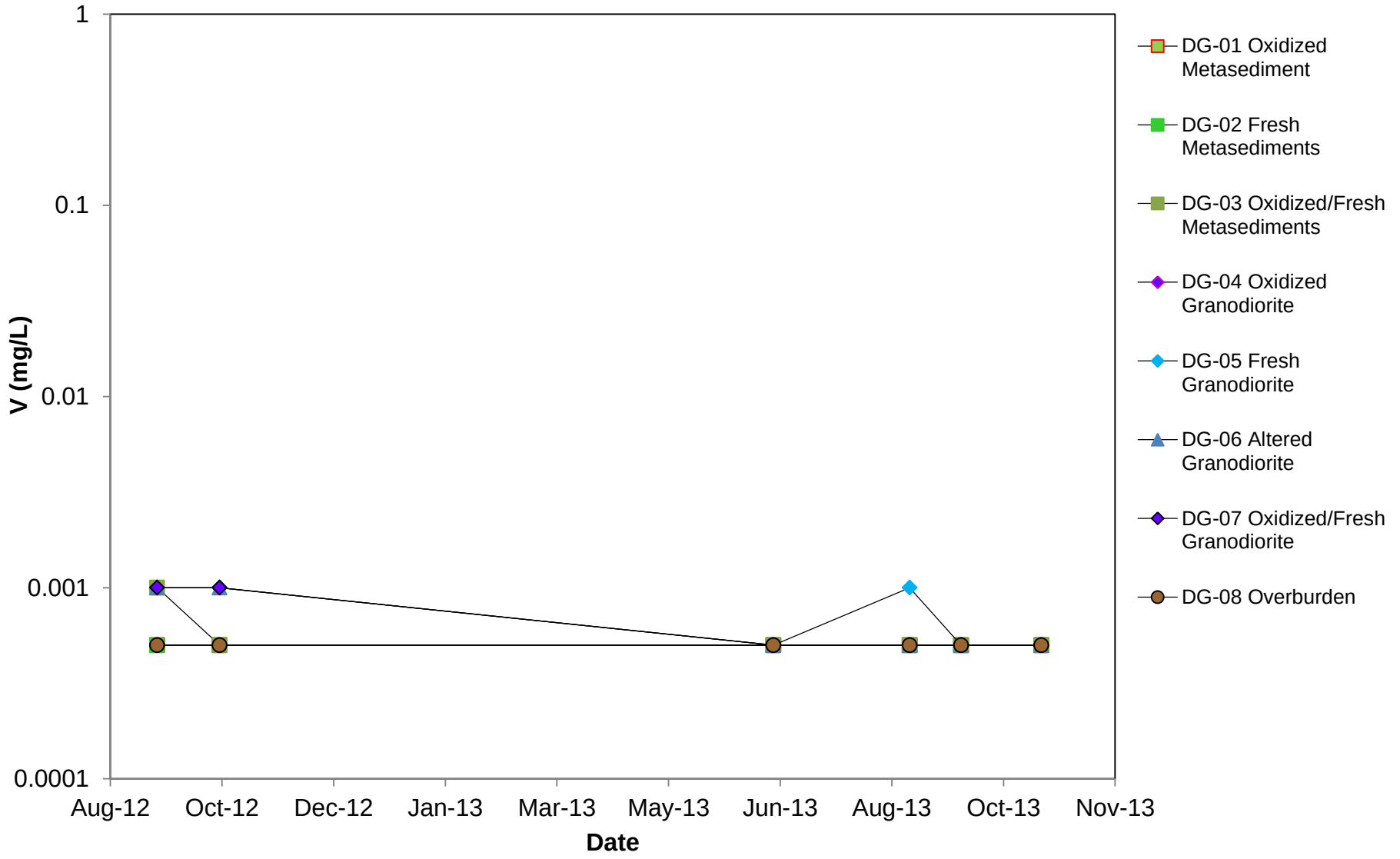
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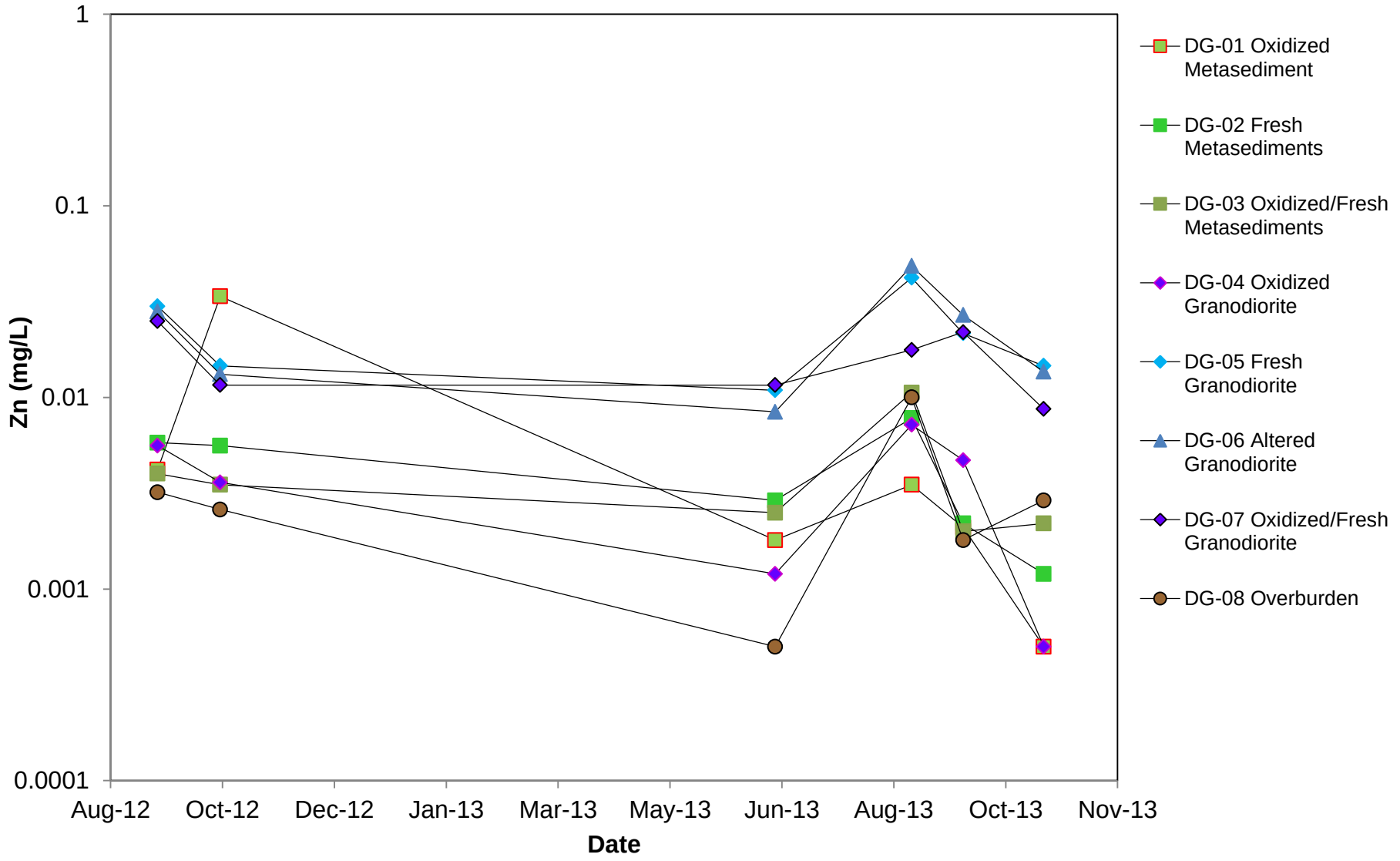
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Appendix I: Kinetic Program Laboratory Results for Spent Ore

Appendix I1: Metallurgical Column Concentrations Tables

Column: 63301

Test Phase	Sampling Date	Cycle Code	pH	Total Dissolved Solids mg/L	Electrical Conductivity µmhos/cm	Redox Potential mV	Acidity (Titrimetric) mg/L as CaCO2	Bicarbonate mg/L as CaCO3	Carbonate mg/L	Hydroxide mg/L	Total Alkalinity mg/L	Sulfate mg/L	Chloride mg/L	Fluoride mg/L	Ammonia mg/L	Nitrate mg/L	Nitrite mg/L	Total Kjeldahl Nitrogen mg/L	Total Nitrogen mg/L	Total Organic Carbon (TOC) --	Cyanate mg/L	Thiocyanate mg/L	Total Cyanide mg/L	WAD Cyanide --	#REF! Aluminum mg/L	#REF! Antimony mg/L	#REF! Arsenic mg/L	#REF! Barium mg/L	#REF! Beryllium mg/L	#REF! Bismuth mg/L	#REF! Boron mg/L
Leach Phase	6-Feb-12	-40	--	--	--	--	--	--	--	--	--	55	24	1.2	--	0.44	0.25	--	--	--	--	--	--	--	1.1	0.019	0.023	0.018	0.001	0.1	0.1
	16-Mar-12	-35	--	--	--	--	--	--	--	--	--	240	22	2.3	--	0.52	0.64	--	--	--	--	--	--	--	0.4	0.19	1.3	0.01	0.001	0.1	0.1
	15-Mar-12	-35	--	--	--	--	--	--	--	--	--	220	22	2.1	--	0.47	0.54	--	--	--	--	--	--	--	0.31	0.17	0.89	0.01	0.001	0.1	0.1
	22-Mar-12	-34	--	--	--	--	--	--	--	--	--	270	23	2.4	--	0.5	0.63	--	--	--	--	--	--	--	0.36	0.24	1.8	0.016	0.001	0.1	0.1
	23-Mar-12	-34	--	--	--	--	--	--	--	--	--	250	22	2.4	--	0.49	0.61	--	--	--	--	--	--	--	0.37	0.24	1.9	0.012	0.001	0.1	0.1
	30-Mar-12	-33	--	--	--	--	--	--	--	--	--	260	21	2.6	--	0.49	0.6	--	--	--	--	--	--	--	0.32	0.27	2.5	0.014	0.001	0.1	0.1
	29-Mar-12	-33	--	--	--	--	--	--	--	--	--	260	21	2.5	--	0.52	0.56	--	--	--	--	--	--	--	0.38	0.29	2.6	0.02	0.001	0.1	0.1
	6-Apr-12	-32	10.3	1500	2400	92	--	1	260	42	550	310	22	2.8	--	0.24	0.72	74	75	--	--	--	--	--	0.32	0.33	3.6	0.025	0.001	0.1	0.1
	20-Apr-12	-30	10.4	--	2800	70	--	1	260	63	620	180	15	2.6	--	1	0.52	--	--	--	--	--	--	--	0.33	0.45	5.8	0.01	0.001	0.1	0.11
	19-Apr-12	-30	10.4	--	--	--	--	1	230	86	630	180	15	2.5	--	1	0.52	--	--	--	--	--	--	--	0.39	0.48	6	0.02	0.001	0.1	0.11
	26-Apr-12	-29	10.3	--	2700	50	--	1	290	41	600	200	15	2.9	--	1	0.58	--	--	--	--	--	--	--	0.27	0.65	8.1	0.01	0.001	0.1	0.13
	25-Apr-12	-29	10.4	--	2700	47	--	1	310	41	640	180	15	2.7	--	1	0.52	--	--	--	--	--	--	--	0.32	0.59	7.3	0.012	0.001	0.1	0.12
	3-May-12	-28	10.3	--	2500	42	--	1	320	2.7	540	230	21	3.5	--	1	0.7	--	--	--	--	--	--	--	0.17	0.63	8.4	0.01	0.001	0.1	0.12
	4-May-12	-28	10.4	--	2800	45	--	1	320	44	660	230	20	3.4	--	1	0.66	--	--	--	--	--	--	--	0.25	0.62	7.9	0.022	0.001	0.1	0.12
	11-May-12	-27	10.3	--	--	--	--	1	320	48	680	230	23	3.5	--	1	0.71	--	--	--	--	--	--	--	0.16	0.63	8.8	0.027	0.001	0.1	0.13
	10-May-12	-27	10.3	--	--	--	--	1	310	56	680	230	23	3.5	--	1	0.62	--	--	--	--	--	--	--	0.09	0.58	7.7	0.014	0.001	0.1	0.13
	17-May-12	-26	10.3	--	3000	69	--	1	340	24	640	250	25	3.8	--	1	0.79	--	--	--	--	--	--	--	0.092	0.85	11	0.01	0.001	0.1	0.15
	18-May-12	-26	10.3	--	2800	62	--	1	330	14	590	250	25	4.1	--	1	0.8	--	--	--	--	--	--	--	0.12	0.93	12	0.01	0.001	0.1	0.16
	25-May-12	-25	10.3	--	--	--	--	1	430	9.5	740	250	25	3.6	--	--	--	--	--	--	--	--	--	--	0.09	0.85	11	0.012	0.001	0.1	0.14
	24-May-12	-25	10.3	--	--	--	--	1	380	57	800	260	25	3.3	--	--	--	--	--	--	--	--	--	--	0.095	0.82	10	0.018	0.001	0.1	0.14
	1-Jun-12	-24	--	--	--	--	--	--	--	--	--	240	28	3.7	--	1	0.85	--	--	--	--	--	--	--	0.095	0.84	11	0.01	0.001	0.1	0.16
	31-May-12	-24	--	--	--	--	--	--	--	--	--	230	26	3.7	--	1	0.7	--	--	--	--	--	--	--	0.061	0.78	10	0.01	0.001	0.1	0.16
	7-Jun-12	-23	10.2	--	--	--	--	1	450	16	800	220	29	3.8	--	1	0.85	--	--	--	--	--	--	--	0.25	1	12	0.016	0.001	0.1	0.18
	8-Jun-12	-23	10.4	--	--	--	--	1	440	35	840	230	28	3.9	--	1	0.76	--	--	--	--	--	--	--	0.25	1	12	0.015	0.001	0.1	0.18
	15-Jun-12	-22	10.1	--	--	--	--	150	360	1	730	220	31	4	--	1	0.92	--	--	--	--	--	--	--	0.48	1	13	0.015	0.001	0.1	0.2
	14-Jun-12	-22	10.2	--	--	--	--	1	440	4.8	750	210	34	4.1	--	1	0.82	--	--	--	--	--	--	--	0.45	0.96	12	0.024	0.001	0.1	0.19
	21-Jun-12	-21	9.72	--	--	--	--	210	200	1	590	210	32	4.1	--	--	--	--	--	--	--	--	--	--	1.4	1.1	17	0.022	0.001	0.1	0.17
	22-Jun-12	-21	9.75	--	--	--	--	320	180	1	560	210	32	4.1	--	--	--	--	--	--	--	--	--	--	1.6	1.2	17	0.022	0.001	0.1	0.17
Detox/ Rinse Phase	27-Jun-12	-20	9.51	1700	--	--	--	460	150	1	620	210	32	4.1	71	--	--	89	89	--	120	41	--	--	1.8	1.2	15	0.037	0.001	0.1	0.16
	13-Jul-12	-18	--	--	--	--	--	--	--	--	--	--	--	--	31	--	--	85	86	--	100	45	--	--	--	--	--	--	--	--	--
	31-Jul-12	-15	--	--	--	--	--	--	--	--	--	--	--	--	3.1	0.2	0.82	44	45	--	2.5	53	--	--	6.9	1.9	22	0.11	0.01	1	1
	20-Aug-12	-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	27-Aug-12	-11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6-Sep-12	-10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12-Sep-12	-9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	17-Sep-12	-8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	24-Sep-12	-7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1-Oct-12	-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8-Oct-12	-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Humidity Cell Phase	3-Dec-12	1	8.8	2600	4100	230	--	1200	65	1	1100	950	27	1.6	--	1	0.25	0.15	0.15	26	5.3	2.2	11	0.24	0.7	1.3	2.2	0.031	0.001	0.1	0.12
	10-Dec-12	2	8.71	1600	2400	220	--	380	19	1	340	670	16	3.9	0.32	0.6	3	7.5	11	18	3.9	3.5	18	0.17	5.4	1.3	6.6	0.046	0.0005	0.075	0.12
	24-Dec-12	4	8.86	790	1200	180	--	540	40	1	510	110	1	2.7	0.099	0.84	0.22	2.9	2.9	--	2.9	2.2	1	0.067	4.4	1.1	6.4	0.046	0.0007	0.075	0.09
	31-Dec-12	5	8.7	780	1100	220	--	550	28	1	490	110	1	2.1	1.2	0.45	0.18	1.2	1.2	--	1.9	1.8	0.69	0.017	4.1	0.98	6.1	0.045	0.0004	0.075	0.078
	7-Jan-13	6	8.71	660	1000	240	--	490	28	1	450	79	0.1	1.6	0.068	0.41	0.058	1.2	1.7	--	2.5	1.8	0.46	0.021	3.1	0.71	4.8	0.033	0.0007	0.075	0.1
	14-Jan-13	7	8.76	690	1100	270	--	490	35	1	460	97	0.1	1.4	0.05	0.67	0.053	1.2	1.9	--	2.8	1.4	0.56	0.034	3.5	0.74	4.7	0.038	0.0006	0.075	0.071
	21-Jan-13	8	8.76	660	980	280	--	490	20	1	440	71	0.13	1.3	0.05	0.35	0.034	1	1.4	--	3.2	1.3	0.36	0.015	2.7	0.59	4.2	0.03	0.0002	0.075	0.059
	28-Jan-13	9	8.69	720	1100	310	--	510	19	1	450	90	0.1	1.4	0.05	0.61	0.04	0.99	0.99	--	3.7	1.3	0.41	0.023	3.7	0.67	4.6	0.039	0.00046	0.075	0.07
	4-Feb-13	10	8.66	660	1000	250	--	500	17	1	440	99	0.1	1.3	0.05	0.84	0.04	0.94	1.8	--	3	1.5	0.38	0.048	3.7	0.64	4.2	0.046	0.0002	0.075	0.061
	11-Feb-13	11	9.04	660	970	300	--	380	47	1	390	92	0.1	1.3	0.05	0.61	0.061	0.88	1.5	--	3.2	0.89	0.45	0.02	3.9	0.64	4.6	0.044	0.0002	0.075	0.057
	18-Feb-13	12	8.68	630	840	270	--	410	16	1	360	74	2.1	1.2	0.05	0.48	0.035	0.93	1.4	--	4.2	1.1	0.31	0.019	3.2	0.51	4.2	0.037	0.00035	0.075	0.044
	25-Feb-13	13	8.61	580	890	3.5	--	460	14	1	400	76	0.1	1	0.05	0.35	0.01	0.73	1.1	--	4	0.84	0.33	0.05	2.9	0.55	3.8	0.035	0.00035	0.075	0.042
	4-Mar-13	14	8.56	560	830	36	--	410	11	1	360	77	0.1	1.1	0.05	0.28	0.01	0.72	1	--	3	1.1	0.31	0.025	3.1	0.57	4.2	0.034	0.00035	0.075	0.054
	11-Mar-13	15	8.58	540	790	-23	--	400	13	1	350	74	0.1	1	0.05	0.2	0.01	0.66	0.85	--	0.15	1	0.32	0.053	3.4	0.52	3.8	0.038	0.00035	0.075	0.042
	18-Mar-13	16	8.66	560	840	-28	--	400	16	1	350	79	0.1	1	0.05	0.1	0.024	0.75	0.88	--	0.61	0.39	0.31	0.021	3.2	0.56	3.7	0.042	0.00035	0.075	0.049
	25-Mar-13	17	8.68	540	730	-145	--	370	17	1	330	72	0.1	0.93	0.05	0.099	0.01	0.72	0.82	--	0.37	0.37	0.29	0.05	3.1	0.43	3.4	0.038	0.00035	0.075	0.03
	1-Apr-13	18	8.7	510	740	-98	--	370	17	1	330	67	0.1	0.98	0.05	0.082	0.028	0.64	0.75	--	0.1	0.3	0.254	0.025	3	0.51	3.5	0.037	0.00035	0.075	0.035
	8-Apr-13	19	8.69	550	820	-123	--	410	17	1	360	60	0.1	0.79	0.05	0.22	0.029	0.7	0.95	--	0.2	0.35	0.22	0.015	2.5	0.49	2.7	0.035	0.00035	0.075	0.038
	15-Apr-13	20	8.61	490	770	-148	--	390	14	1	340	56	0.1	0.72	0.05	0.3	0.01	0.67	0.67	--	0.16	0.34	0.15	0.027	2	0.43	2.3	0.028	0.00035	0.075	0.034
	22-Apr-13	21	8.63	510	770	160	--	380	15	1	340	63	0.1	0.73	0.05	0.41	0.023	0.58	0.58	--	0.06	0.31	0.15	0.019	1.9	0.41	2.2	0.026	0.00046	0.075	0.027
	6-May-13	23	8.65	520	740	35	--	360	16	1	330	84	0.1	0.79	0.05	0.51	0.015	0.65	1.2	--	0.05	0.22	0.16	0.011	2.6	0.45	2.2	0.033	0.00035	0.075	0.026
	20-May-13	25	8.63	530	760	-86	--	360	14	1	320	84	0.1	0.81	0.053	0.67	0.01	0.74	1.4	--	0.05	0.34	0.18	0.029	2.8	0.51	2.6	0.038	0.001	0.075	0.032
	3-Jun-13	27	8.58	490	700	-55	--	360	11	1	310	75	0.1	0.89	0.17	0.82	0.16	1.1	2.1	--	0.05	0.37	0.13	0.01	2.1	0.47	2.6	0.029	0.00042	0.075	0.028
	17-Jun-13	29	8.62	540	760	-141	--	370	13	1	320	88	0.12	0.77	0.056	1.7	0.22	0.76	2.7	--	0.1	0.13	0.18	0.026	3	0.43	2.3	0.04	0.0035	0.075	0.028
	1-Jul-13	31	8.6	480	640	-85	--	310	13	1	280	60	0.32	1	0.05	0.69	0.19	0.9	1.8	--	0.06	0.21	0.17	0.021	2.9	0.59	2.6	0.036	0.0004	0.075	0.027
	15-Jul-13	33	8.66	520	700	-143	--	330	15	1	290	79	0.1	0.74	0.05	0.83	0.25	0.85	1.9	--	0.09	0.26	0.18	0.02	4.1	0.42	2.2	0.052	0.00062	0.075	0.034
	29-Jul-13	35	8.56	460	670	-54	--	310	13	1	270	70	0.11	0.67	0.05	0.98	0.17	0.74	1.9	--	0.2	0.1	0.15	0.023	2.8	0.38	1.9	0.04	0.00035	0.075	0.034
	12-Aug-13	37	8.54	420	590	-115	--	280	8.9	1	240	53	0.12	0.58	0.05	1.1	0.17	0.54	1.8	#N/A	0.1	0.1	0.11	0.01	2.1	0.36	1.7	0.029	0.00042	0.075	0.029
	26-Aug-13	39	8.49	390	560	-119	--	260	9.2	1	230	51	0.15	0.53	0.05	1.1	0.11	0.5	1.7	#N/A	0.1	0.1	0.13	0.018	2.1	0.3	1.5	0.029	0.00042	0.075	0.037
	9-Sep-13	41	8.43	350	530	-151	--	250	4.3	1	210	43	0.11	0.45	0.05	0.78	0.098	0.5	1.4	#N/A	0.1	0.1	0.11	0.019	1.6	0.26	1.4	0.019	0.00035	0.075	0.027

Cell Terminated

Column: 63301

		#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	####	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	####	#REF!	#REF!	#REF!	#REF!	#REF!
Test Phase	**Sampling Date**	**Cadmium**	**Calcium**	**Chromium**	**Cobalt**	**Copper**	**Gallium**	**Iron**	**Lithium**	**Lead**	**Magnesium**	**Manganese**	**Molybdenum**	**Nickel**	**Phosphorus**	**Potassium**	**Scandium**	**Silicon**	**Silver**	**Sodium**	**Strontium**	**Tin**	**Titanium**	**Vanadium**	**Zinc**	**Mercury**	**Selenium**	**Thallium**	**Uranium**
		mg/L	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Leach Phase	6-Feb-12	0.06	6.9	0.019	0.16	9.3	0.1	0.14	0.1	0.003	0.5	0.005	0.19	0.53	0.5	16	0.1	--	0.12	330	1.6	0.1	0.1	0.01	11	0.0047	0.091	0.001	--
	16-Mar-12	0.022	15	0.0087	0.26	8.3	0.1	2	0.1	0.006	0.5	0.005	0.19	0.01	0.5	18	0.1	--	0.005	420	0.8	0.1	0.1	0.14	8.5	0.004	0.037	0.001	--
	15-Mar-12	0.012	14	0.0083	0.25	5.8	0.1	1.8	0.1	0.014	1.2	0.005	0.18	0.01	0.52	31	0.1	--	0.005	410	0.73	0.1	0.1	0.12	5.7	0.0039	0.032	0.001	--
	22-Mar-12	0.02	14	0.0064	0.25	7.2	0.1	2.3	0.1	0.008	0.5	0.005	0.18	0.01	0.5	16	0.1	--	0.005	460	0.83	0.1	0.1	0.13	7.5	0.0038	0.038	0.001	--
	23-Mar-12	0.018	12	0.0056	0.24	6.7	0.1	2.3	0.1	0.004	0.5	0.005	0.18	0.01	0.5	17	0.1	--	0.005	480	0.86	0.1	0.1	0.14	7	0.0036	0.035	0.001	--
	30-Mar-12	0.021	15	0.005	0.22	6	0.1	2.6	0.1	0.004	0.5	0.005	0.16	0.01	0.5	15	0.1	--	0.005	490	0.78	0.1	0.1	0.15	7	0.0036	0.036	0.001	--
	29-Mar-12	0.02	15	0.005	0.23	6.6	0.1	2.8	0.1	0.011	0.5	0.005	0.17	0.01	0.5	16	0.1	--	0.005	530	0.87	0.1	0.1	0.15	7.2	0.0038	0.039	0.001	--
	6-Apr-12	0.025	6	0.005	0.23	4.7	0.1	2.9	0.1	0.038	0.5	0.023	0.15	0.016	0.5	15	0.1	--	0.005	530	0.51	0.1	0.1	0.15	7.5	0.0055	0.1	0.02	0.02
	20-Apr-12	0.026	4.9	0.005	0.17	5.2	0.1	4.7	0.1	0.01	0.5	0.02	0.098	0.029	0.5	13	0.1	--	0.005	500	0.35	0.1	0.1	0.16	6.5	0.0033	0.024	0.001	--
	19-Apr-12	0.024	4.4	0.005	0.17	4.9	0.1	4.6	0.1	0.021	0.5	0.024	0.093	0.023	0.5	12	0.1	--	0.005	500	0.36	0.1	0.1	0.16	5.9	0.0028	0.023	0.001	--
	26-Apr-12	0.027	4.3	0.005	0.18	5.9	0.1	5.2	0.1	0.011	0.5	0.015	0.096	0.037	0.5	12	0.1	--	0.005	530	0.3	0.1	0.1	0.18	6.8	0.0031	0.025	0.001	--
	25-Apr-12	0.026	3.4	0.005	0.18	5.4	0.1	5.2	0.1	0.02	0.5	0.033	0.094	0.03	0.5	13	0.1	--	0.005	540	0.31	0.1	0.1	0.16	6.4	0.0026	0.024	0.001	--
	3-May-12	0.026	3.8	0.005	0.18	4.7	0.1	5.2	0.1	0.014	0.5	0.012	0.093	0.029	0.5	11	0.1	--	0.005	500	0.24	0.1	0.1	0.17	6.5	0.0029	0.028	0.05	--
	4-May-12	0.024	5.5	0.005	0.18	4.8	0.1	5.4	0.1	0.023	0.5	0.088	0.094	0.026	0.5	12	0.1	--	0.005	550	0.31	0.1	0.1	0.16	6.2	0.0028	0.026	0.05	--
	11-May-12	0.03	4.4	0.005	0.13	2.8	0.1	4.6	0.1	0.028	0.5	0.041	0.093	0.018	0.5	12	0.1	--	0.005	590	0.27	0.1	0.1	0.16	6.4	0.0022	0.05	0.01	--
	10-May-12	0.031	4.3	0.005	0.13	2.6	0.1	4.2	0.1	0.02	0.5	0.041	0.094	0.02	0.5	12	0.1	--	0.005	580	0.26	0.1	0.1	0.16	6.6	0.0059	0.05	0.01	--
	17-May-12	0.039	4.2	0.005	0.21	5.5	0.1	6.3	0.1	0.015	0.5	0.023	0.11	0.04	0.5	11	0.1	--	0.005	580	0.24	0.1	0.1	0.18	8.1	0.0052	0.031	0.001	--
	18-May-12	0.036	3.5	0.005	0.21	5.3	0.1	6.4	0.1	0.015	0.5	0.013	0.11	0.038	0.5	11	0.1	--	0.005	580	0.22	0.1	0.1	0.21	7.6	0.0048	0.037	0.001	--
	25-May-12	0.033	3.8	0.005	0.13	2.6	0.1	6.6	0.1	0.026	0.5	0.076	0.09	0.024	0.5	11	0.1	--	0.005	690	0.23	0.1	0.1	0.16	6.7	0.0079	0.1	0.02	--
	24-May-12	0.039	4.4	0.005	0.12	2.4	0.1	6.1	0.1	0.025	0.5	0.076	0.091	0.026	0.5	12	0.1	--	0.005	710	0.24	0.1	0.1	0.14	7.4	0.0086	0.1	0.02	--
	1-Jun-12	0.05	4.2	0.005	0.22	7	0.1	9.9	0.1	0.02	0.5	0.057	0.1	0.069	0.5	11	0.1	--	0.005	730	0.23	0.1	0.1	0.19	9	0.0052	0.1	0.02	--
	31-May-12	0.043	2.8	0.005	0.22	6.9	0.1	10	0.1	0.02	0.5	0.12	0.11	0.049	0.5	11	0.1	--	0.005	720	0.22	0.1	0.1	0.2	8.7	0.0059	0.1	0.02	--
	7-Jun-12	0.044	4.8	0.005	0.16	6.2	0.1	9.7	0.1	0.046	0.5	0.06	0.1	0.066	0.5	10	0.1	--	0.005	800	0.22	0.1	0.1	0.21	8.3	0.0081	0.1	0.02	--
	8-Jun-12	0.045	5.4	0.005	0.19	6.2	0.1	9.7	0.1	0.041	0.5	0.075	0.1	0.07	0.5	11	0.1	--	0.005	820	0.25	0.1	0.1	0.22	8.6	0.0071	0.1	0.02	--
	15-Jun-12	0.045	5.1	0.005	0.24	6.8	0.1	12	0.1	0.063	0.5	0.029	0.11	0.068	0.5	9.4	0.1	--	0.005	780	0.2	0.1	0.1	0.24	9	0.0025	0.1	0.02	--
	14-Jun-12	0.043	6.1	0.005	0.22	5.8	0.1	11	0.1	0.057	0.5	0.099	0.1	0.056	0.5	9.3	0.1	--	0.005	780	0.21	0.1	0.1	0.23	8.8	0.002	0.1	0.02	--
	21-Jun-12	0.017	8	0.005	0.17	2.1	0.1	7.2	0.1	0.16	0.5	0.028	0.089	0.036	--	7.8	0.1	--	0.005	690	0.17	0.1	0.1	0.15	3.9	0.0031	0.09	0.02	--
	22-Jun-12	0.018	7.1	0.005	0.24	5.9	0.1	12	0.1	0.15	0.5	0.037	0.098	0.052	--	7.9	0.1	--	0.005	670	0.16	0.1	0.1	0.23	3.8	0.0039	0.09	0.02	--
Detox/ Rinse Phase	27-Jun-12	0.0064	29	0.0053	0.17	3.2	0.1	11	0.1	0.23	0.5	0.039	0.091	0.03	0.5	7.3	0.1	--	0.005	610	0.45	0.1	0.1	0.2	1.3	0.0034	0.04	0.001	--
	13-Jul-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	31-Jul-12	0.01	20	0.05	0.34	0.5	1	15	1	0.7	5	0.13	0.18	0.1	5	25	1	--	0.05	720	1	1	1	0.1	0.14	0.0057	0.064	0.01	--
	20-Aug-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	27-Aug-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6-Sep-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12-Sep-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	17-Sep-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	24-Sep-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1-Oct-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8-Oct-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Humidity Cell Phase	3-Dec-12	0.001	17	0.005	0.17	0.05	0.1	3.6	0.1	0.057	3.3	0.036	0.11	0.01	0.5	13	0.1	--	0.005	960	0.44	0.1	0.1	0.019	0.01	0.001	0.016	0.001	--
	10-Dec-12	0.0011	9.9	0.0045	0.12	0.2	0.02	5.7	0.02	0.18	2	0.07	0.093	0.009	1.2	8.6	0.0011	28	5E-04	510	0.23	0.01	0.1	0.042	0.05	0.0009	0.027	0.0002	0.48
	24-Dec-12	0.0003	8	0.0038	0.008	0.034	0.02	2.8	0.02	0.29	0.91	0.08	0.024	0.007	1.2	4.6	0.001	25	0.001	270	0.14	0.01	0.06	0.034	0.04	0.00077	0.018	0.0002	0.17
	31-Dec-12	0.0005	8.1	0.0031	0.005	0.025	0.02	2.5	0.02	0.33	0.9	0.077	0.021	0.007	1	4.3	0.001	24	0.001	250	0.13	0.01	0.06	0.026	0.08	0.00035	0.016	0.0002	0.16
	7-Jan-13	0.0002	5.8	0.0026	0.004	0.021	0.02	2.2	0.02	0.23	0.68	0.058	0.014	0.006	0.93	3.9	0.001	20	5E-04	230	0.1	0.01	0.05	0.028	0.04	0.0007	0.015	0.0002	0.12
	14-Jan-13	0.0004	6.8	0.0025	0.004	0.023	0.02	2.2	0.02	0.24	0.7	0.06	0.017	0.005	1.1	4.1	0.001	23	5E-04	240	0.11	0.01	0.06	0.032	0.04	0.0004	0.018	0.0002	0.12
	21-Jan-13	0.0002	6.2	0.0016	0.003	0.027	0.02	1.7	0.02	0.21	0.61	0.048	0.012	0.004	0.91	3.7	0.001	19	5E-04	210	0.1	0.01	0.05	0.026	0.03	0.0007	0.012	0.0002	0.1
	28-Jan-13	0.00046	7.1	0.0025	0.0029	0.021	0.02	1.9	0.02	0.27	0.69	0.058	0.014	0.004	0.98	4.2	0.001	24	5E-04	230	0.12	0.01	0.061	0.029	0.04	0.0007	0.014	0.0002	0.12
	4-Feb-13	0.0002	8.7	0.0027	0.003	0.043	0.02	2.1	0.02	0.34	0.72	0.071	0.014	0.005	0.9	4.1	0.0011	26	5E-04	220	0.12	0.01	0.06	0.028	0.04	0.0007	0.02	0.0002	0.12
	11-Feb-13	0.0002	7.8	0.0028	0.003	0.016	0.02	2	0.02	0.33	0.66	0.064	0.013	0.005	1	3.7	0.0011	24	5E-04	200	0.11	0.01	0.06	0.029	0.04	0.0007	0.016	0.0002	0.12
	18-Feb-13	0.0009	7.5	0.0036	0.003	0.014	0.02	1.9	0.02	0.26	0.66	0.057	0.009	0.005	1	3.4	0.001	22	0.002	180	0.1	0.01	0.04	0.033	0.06	0.001	0.016	0.0004	0.084
	25-Feb-13	0.0009	7.5	0.002	0.002	0.0095	0.02	1.5	0.02	0.27	0.57	0.051	0.01	0.003	0.92	3.5	0.001	21	0.002	190	0.1	0.01	0.044	0.03	0.04	0.001	0.015	0.0004	0.082
	4-Mar-13	0.0009	6.8	0.0014	0.002	0.019	0.02	1.7	0.02	0.27	0.54	0.053	0.011	0.004	1	3.2	0.001	24	0.002	170	0.09	0.01	0.05	0.03	0.03	0.001	0.014	0.0004	0.073
	11-Mar-13	0.0009	7.3	0.0019	0.002	0.0093	0.02	1.8	0.02	0.28	0.57	0.052	0.01	0.004	0.88	3.8	0.001	24	0.002	180	0.1	0.01	0.06	0.034	0.03	0.001	0.013	0.0004	0.068
	18-Mar-13	0.0009	6.6	0.0028	0.0023	0.01	0.02	1.5	0.02	0.31	0.49	0.058	0.0068	0.004	0.95	3.2	0.001	22	0.002	160	0.09	0.01	0.039	0.038	0.04	0.001	0.013	0.0004	0.065
	25-Mar-13	0.0009	7.7	0.001	0.002	0.0066	0.02	1.7	0.02	0.3	0.52	0.053	0.005	0.003	0.93	3.2	0.001	25	0.002	160	0.09	0.01	0.05	0.033	0.04	0.0001	0.014	0.0004	0.063
	1-Apr-13	0.0009	7.6	0.0015	0.002	0.0084	0.02	1.6	0.02	0.25	0.5	0.052	0.0051	0.004	0.87	3	0.001	24	0.002	160	0.091	0.01	0.051	0.035	0.03	0.0001	0.014	0.0004	0.05
	8-Apr-13	0.0009	8.3	0.0025	0.002	0.0095	0.02	1.4	0.02	0.26	0.49	0.046	0.005	0.003	0.78	3.5	0.001	22	0.002	180	0.11	0.01	0.035	0.032	0.03	0.0001	0.01	0.0004	0.05
	15-Apr-13	0.0009	7.1	0.0015	0.002	0.0075	0.02	1.1	0.02	0.19	0.53	0.034	0.005	0.003	0.7	3.7	0.001	21	0.002	200	0.094	0.01	0.03	0.028	0.03	0.0001	0.0096	0.0004	0.044
	22-Apr-13	0.0009	6.2	0.0018	0.002	0.013	0.02	0.91	0.02	0.18	0.46	0.032	0.0053	0.002	0.63	3.3	0.001	19	0.002	170	0.082	0.01	0.026	0.025	0.02	0.001	0.0082	0.0004	0.041
	6-May-13	0.0013	6.6	0.002	0.002	0.011	0.02	1.1	0.02	0.26	0.44	0.04	0.008	0.003	0.6	3.4	0.001	23	0.002	190	0.094	0.01	0.031	0.024	0.03	0.0001	0.0081	0.0004	0.04
	20-May-13	0.0009	8.2	0.0022	0.002	0.012	0.02	1.3	0.02	0.32	0.48	0.05	0.006	0.003	0.63	3.4	0.001	25	0.002	170	0.1	0.01	0.039	0.025	0.04	0.0001	0.0095	0.0004	0.04
	3-Jun-13	0.0009	6.2	0.0017	0.002	0.0093	0.02	1	0.02	0.23	0.42	0.036	0.005	0.003	0.83	3.5	0.001	22	0.002	160	0.082	0.01	0.027	0.026	0.03	0.0001	0.011	0.0004	0.032
	17-Jun-13	0.009	8.5	0.01	0.0022	0.025	0.02	1.3	0.02	0.33	0.49	0.051	0.005	0.01	0.68	3.9	0.001	26	0.015	160	0.11	0.01	0.036	0.018	0.03	0.0001	0.02	0.004	0.034
	1-Jul-13	0.0009	7.2	0.0016	0.002	0.01	0.02	1.4	0.02	0.28	0.48	0.044	0.005	0.003	0.68	4.1	0.001	28	0.002	150	0.089	0.01	0.042	0.03	0.03	0.0001	0.01	0.0004	0.027
	15-Jul-13	0.0009	11	0.0023	0.0024	0.0088	0.02	1.8	0.02	0.34	0.65	0.061	0.0083	0.003	0.78	5.6	0.001	--	0.002	200	0.13	0.01	0.041	0.024	0.04	0.0001	0.0082	0.0004	0.028
	29-Jul-13	0.0009	8.8	0.002	0.0023	0.0092	0.02	1.4	0.02	0.29	0.5	0.048	0.005	0.003	0.93	4.1	0.001	28	0.002	140	0.11	0.01	0.032	0.019	0.03	0.0001	0.0081	0.0004	0.025
	12-Aug-13	0.0009	7	0.0013	0.002	0.012	0.02	1	0.02	0.23	0.45	0.036	0.0053	0.002	0.74	3.3	0.001	22	0.002	120	0.082	0.01	0.023	0.019	0.03	0.0001	0.0062	0.001	0.022
	26-Aug-13	0.0009	7.6	0.0012	0.002	0.0098	0.02	1	0.02	0.18	0.51	0.033	0.005	0.002	0.53	4.8	0.001	21	0.002	150	0.086	0.01	0.025	0.015	0.02	0.00036	0.0078	0.0004	0.019
	9-Sep-13	0.0009	5.8	0.0011	0.002	0.0058	0.02	0.74	0.02	0.14	0.43	0.021	0.0096	0.002	0.36	4.4	0.001	18	0.002	120	0.078	0.01	0.014	0.013	0.01	0.0001	0.0052	0.0004	0.016

Cell Terminated

Column: 63316

Test Phase	Sampling Date	Cycle Code	pH	Total Dissolved Solids	Electrical Conductivity	Redox Potential	Acidity (Titrimetric)	Bicarbonate	Carbonate	Hydroxide	Total Alkalinity	Sulfate	Chloride	Fluoride	Ammonia	Nitrate	Nitrite	Total Kjeldahl Nitrogen	Total Nitrogen	Total Organic Carbon (TOC)	Cyanate	Thiocyanate	Total Cyanide	WAD Cyanide	Aluminum	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium
				mg/L	µmhos/cm	mV	mg/L as CaCO2	mg/L as CaCO3	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	--	mg/L	mg/L	mg/L	--	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Leach Phase	6-Feb-12	-40	--	--	--	--	--	--	--	--	--	51	22	1.2	--	0.41	0.25	--	--	--	--	--	--	--	1.2	0.023	0.022	0.032	0.001	0.1	0.1	0.057
	16-Mar-12	-35	--	--	--	--	--	--	--	--	--	230	25	2.2	--	0.48	0.36	--	--	--	--	--	--	--	0.48	0.22	1.4	0.01	0.001	0.1	0.1	0.02
	15-Mar-12	-35	--	--	--	--	--	--	--	--	--	220	26	2.1	--	0.49	0.4	--	--	--	--	--	--	--	0.41	0.21	1.3	0.01	0.001	0.1	0.1	0.014
	22-Mar-12	-34	--	--	--	--	--	--	--	--	--	260	26	2.6	--	0.51	0.42	--	--	--	--	--	--	--	0.45	0.29	2.5	0.01	0.001	0.1	0.1	0.019
	23-Mar-12	-34	--	--	--	--	--	--	--	--	--	260	25	2.5	--	0.5	0.43	--	--	--	--	--	--	--	0.44	0.27	2.1	0.01	0.001	0.1	0.1	0.017
	30-Mar-12	-33	--	--	--	--	--	--	--	--	--	290	26	2.7	--	0.54	0.46	--	--	--	--	--	--	--	0.36	0.31	2.7	0.01	0.001	0.1	0.1	0.018
	29-Mar-12	-33	--	--	--	--	--	--	--	--	--	290	29	2.7	--	0.51	0.45	--	--	--	--	--	--	--	0.38	0.31	2.8	0.01	0.001	0.1	0.1	0.017
	6-Apr-12	-32	10.3	1400	2700	83	--	1	280	33	550	300	26	2.9	--	0.24	0.51	85	86	--	--	--	--	--	0.33	0.36	3.8	0.026	0.001	0.1	0.1	0.026
	20-Apr-12	-30	10.4	--	3000	70	--	1	270	39	560	350	29	3.6	--	1	0.59	--	--	--	--	--	--	--	0.3	0.48	6.2	0.012	0.001	0.1	0.12	0.025
	19-Apr-12	-30	10.5	--	3300	67	--	1	270	69	640	350	29	3.5	--	1	0.63	--	--	--	--	--	--	--	0.39	0.49	6	0.04	0.001	0.1	0.12	0.025
	26-Apr-12	-29	10.5	--	3300	62	--	1	280	63	660	350	29	3.8	--	1	0.75	--	--	--	--	--	--	--	0.21	0.59	7.4	0.013	0.001	0.1	0.13	0.03
	25-Apr-12	-29	10.5	--	3100	60	--	1	280	20	530	340	29	3.8	--	1	0.68	--	--	--	--	--	--	--	0.28	0.56	7.5	0.029	0.001	0.1	0.13	0.028
	3-May-12	-28	10.5	--	3200	56	--	1	310	41	630	330	29	3.9	--	1	0.69	--	--	--	--	--	--	--	0.12	0.71	10	0.015	0.001	0.1	0.14	0.027
	4-May-12	-28	10.4	--	3400	65	--	1	250	37	560	340	30	3.7	--	1	0.75	--	--	--	--	--	--	--	0.09	0.59	8.1	0.011	0.001	0.1	0.13	0.025
	11-May-12	-27	10.2	--	--	--	--	1	360	30	690	290	27	3.5	--	1	0.65	--	--	--	--	--	--	--	0.059	0.67	7.7	0.01	0.001	0.1	0.12	0.029
	10-May-12	-27	10.2	--	--	--	--	1	190	39	750	300	27	3.5	--	1	0.74	--	--	--	--	--	--	--	0.25	0.71	8.2	0.054	0.001	0.1	0.13	0.034
	17-May-12	-26	10.3	--	3800	65	--	1	400	26	750	340	32	4.1	--	1	0.73	--	--	--	--	--	--	--	0.15	0.86	9.9	0.014	0.001	0.1	0.13	0.034
	18-May-12	-26	10.3	--	4000	58	--	1	400	22	720	310	29	3.8	--	1	0.61	--	--	--	--	--	--	--	0.11	0.82	9.3	0.011	0.001	0.1	0.14	0.042
	25-May-12	-25	10.3	--	--	--	--	1	460	9.5	800	350	29	3.5	--	--	--	--	--	--	--	--	--	--	0.12	0.93	11	0.011	0.001	0.1	0.13	0.039
	24-May-12	-25	10.4	--	--	--	--	1	450	44	880	340	29	3.5	--	--	--	--	--	--	--	--	--	--	0.17	0.89	11	0.021	0.001	0.1	0.12	0.034
	1-Jun-12	-24	--	--	--	--	--	--	--	--	--	290	30	3.9	--	1	0.71	--	--	--	--	--	--	--	0.25	0.83	11	0.018	0.001	0.1	0.15	0.041
	31-May-12	-24	--	--	--	--	--	--	--	--	--	290	30	3.9	--	1	0.75	--	--	--	--	--	--	--	0.21	0.89	11	0.015	0.001	0.1	0.14	0.042
	7-Jun-12	-23	10.4	--	--	--	--	1	540	14	940	290	30	4	--	1	0.78	--	--	--	--	--	--	--	0.48	1.1	13	0.021	0.001	0.1	0.16	0.041
	8-Jun-12	-23	10.3	--	--	--	--	1	530	4.1	880	290	30	3.9	--	1	0.74	--	--	--	--	--	--	--	0.43	1	12	0.021	0.001	0.1	0.14	0.033
	15-Jun-12	-22	10.1	--	--	--	--	180	470	1	930	290	31	4.2	--	1	0.82	--	--	--	--	--	--	--	0.62	1.1	14	0.02	0.001	0.1	0.17	0.04
	14-Jun-12	-22	10.1	--	--	--	--	170	490	1	950	280	30	4.1	--	1	0.74	--	--	--	--	--	--	--	0.67	1.1	14	0.021	0.001	0.1	0.18	0.044
	21-Jun-12	-21	9.85	--	--	--	--	440	230	1	740	250	28	4	--	--	--	--	--	--	--	--	--	--	1.5	1.2	14	0.025	0.001	0.1	0.15	0.012
	22-Jun-12	-21	9.78	--	--	--	--	530	230	1	810	250	28	4.1	--	--	--	--	--	--	--	--	--	--	1.8	1.2	16	0.03	0.001	0.1	0.14	0.0082
Detox/ Rinse Phase	27-Jun-12	-20	9.51	2300	--	--	--	690	190	1	890	270	30	4.4	28	--	--	140	140	--	220	60	--	--	2	1.4	17	0.058	0.001	0.1	0.12	0.0055
	2-Oct-12	-6	--	--	--	--	--	--	--	--	--	--	--	--	91	41	2	100	150	--	170	66	--	--	5.5	2	19	0.079	0.001	0.1	0.15	0.0015
	8-Oct-12	-5	8.96	3900	5800	180	--	640	69	1	640	1200	58	4.3	29	300	5.1	36	130	--	31	59	--	0.083	0.75	1.7	5.1	0.027	0.001	0.1	0.16	0.001
	2-Nov-12	-2	--	--	--	--	--	--	--	--	--	--	--	--	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6-Nov-12	-1	--	--	--	--	--	--	--	--	--	--	--	--	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6-Nov-12	-1	--	--	--	--	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9-Nov-12	-1	--	--	--	--	--	--	--	--	--	--	--	--	5.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9-Nov-12	-1	--	--	--	--	--	--	--	--	--	--	--	--	5.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9-Nov-12	-1	--	--	--	--	--	--	--	--	--	--	--	--	5.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	14-Nov-12	0	8.68	2800	4200	300	--	680	36	1	620	1000	79	2.2	13	58	1.8	30	31	--	2.5	18	0.6	0.04	1.7	0.99	7.3	0.04	0.0004	0.075	0.11	0.0002
Humidity Cell Phase	26-Nov-12	1	8.59	3100	4700	180	--	470	16	1	410	1300	95	1.4	0.46	2.3	93	1.2	96	--	4.6	4.8	0.2	0.032	0.37	0.52	2.4	0.022	0.0004	0.075	0.07	0.0002
	3-Dec-12	2	8.61	2300	3600	210	--	390	13	1	340	1200	72	1.9	0.19	0.62	28	1.8	30	--	3.5	0.98	0.13	0.027	1.1	0.77	3.1	0.022	0.0004	0.075	0.08	0.0002
	10-Dec-12	3	8.79	1400	2100	250	--	460	29	1	430	540	18	2.3	0.18	0.41	8	1.6	9.5	5.4	2.3	1.1	0.087	0.015	2.4	0.99	5.1	0.028	0.001	0.075	0.08	0.0014
	24-Dec-12	5	8.9	960	1500	210	--	500	46	1	490	280	1.2	1.9	0.11	0.33	0.68	1.7	2.4	--	2.1	1.2	0.1	0.012	2.8	0.84	4.5	0.029	0.0005	0.075	0.06	0.0002
	31-Dec-12	6	8.84	800	1200	290	--	480	38	1	460	170	1	1.6	0.73	0.1	0.22	1.2	1.2	--	1.8	3.2	0.11	0.01	4.4	0.58	4.5	0.04	0.0004	0.075	0.044	0.0002
	7-Jan-13	7	8.82	820	1300	250	--	490	38	1	460	180	0.19	1.4	0.05	0.1	0.042	0.48	0.52	--	2.2	1	0.14	0.01	2.2	0.68	3.9	0.025	0.0006	0.075	0.073	0.0002
	14-Jan-13	8	8.81	800	1300	270	--	480	39	1	460	190	0.12	1.4	0.05	0.1	0.016	0.62	0.62	--	1.6	1.1	0.14	0.019	2.5	0.8	4.2	0.027	0.0005	0.075	0.046	0.0004
	21-Jan-13	9	8.81	720	1100	310	--	490	25	1	440	130	0.1	1.3	0.05	0.022	0.01	0.46	0.46	--	2.7	0.67	0.087	0.01	1.9	0.54	3.5	0.021	0.0002	0.075	0.037	0.0002
	28-Jan-13	10	8.79	770	1200	350	--	480	25	1	440	160	0.1	1.5	0.05	0.1	0.01	0.51	0.51	--	2.6	1.1	0.12	0.012	2.6	0.7	4	0.028	0.0002	0.075	0.051	0.0002
	4-Feb-13	11	8.76	710	1100	300	--	480	22	1	430	140	0.1	1.4	0.05	0.01	0.01	0.68	0.68	--	3.1	1.2	0.097	0.011	2.7	0.63	3.6	0.029	0.0002	0.075	0.039	0.0002
	11-Feb-13	12	9.17	780	1200	280	--	430	66	1	460	150	0.1	1.4	0.05	0.01	0.01	0.53	0.53	--	5.8	0.6	0.076	0.01	3	0.68	3.6	0.031	0.0002	0.075	0.042	0.0002
	18-Feb-13	13	8.73	730	1100	280	--	470	22	1	420	130	1.3	1.2	0.05	0.077	0.055	0.54	0.59	--	4.9	0.63	0.084	0.01	2.5	0.6	3.3	0.026	0.00035	0.075	0.033	0.0009
	25-Feb-13	14	8.75	690	1100	50	--	480	23	1	430	130	0.1	1.2	0.05	0.01	0.01	0.49	0.49	--	2.9	0.84	0.074	0.05	2.4	0.58	3.1	0.026	0.00035	0.075	0.033	0.0009
	4-Mar-13	15	8.67	650	1000	34	--	460	18	1	410	120	0.1	1.1	0.05	0.01	0.01	0.62	0.62	--	3.5	1.1	0.067	0.012	2.4	0.59	3.2	0.024	0.00035	0.075	0.034	0.0009
	11-Mar-13	16	8.73	620	950	-69	--	430	22	1	390	110	0.1	1.1	0.05	0.01	0.01	0.4	0.4	--	0.15	0.78	0.064	0.016	1.9	0.51	2.9	0.024	0.00035	0.075	0.028	0.0009
	18-Mar-13	17	8.79	680	1000	-41	--	440	26	1	410	120	0.1	1.2	0.05	0.01	0.01	0.53	0.53	--	0.62	0.1	0.07	0.01	2.4	0.55	3	0.028	0.00035	0.075	0.038	0.0009
	25-Mar-13	18	8.81	630	880	-116	--	410	25	1	380	110	0.1	1.1	0.05	0.01	0.01	0.4	0.4	--	0.43	0.14	0.054	0.01	2	0.43	2.7	0.024	0.00035	0.075	0.02	0.0009
	1-Apr-13	19	8.79	570	850	-88	--	390	26	1	370	89	0.1	1	0.05	0.01	0.01	0.51	0.51	--	0.13	0.34	0.049	0.01	2	0.5	2.9	0.022	0.00035	0.075	0.1	0.0009
	8-Apr-13	20	8.8	580	880	-119	--	400	23	1	370	89	0.1	1	0.05	0.01	0.01	0.34	0.34	--	0.2	0.1	0.042	0.01	1.8	0.48	2.7	0.029	0.00035	0.075	0.032	0.0009
	15-Apr-13	21	8.75	570	870	-155	--	400	22	1	370	92	0.1	1	0.05	0.01	0.01	0.43	0.43	--	0.08	0.31	0.049	0.018	2.1	0.45	2.4	0.027	0.00035	0.075	0.031	0.0009
	22-Apr-13	22	8.71	570	830	-5	--	410	20	1	370	77	0.1	0.9	0.05	0.01	0.01	0.38	0.38	--	0.05	0.23	0.038	0.013	1.6	0.38	2.1	0.021	0.0005	0.075	0.027	0.0009
	6-May-13	24	8.75	510	780	-75	--	330	20	1	300	120	0.1	1	0.05	0.01	0.01	0.43	0.43	--	0.05	0.1	0.049	0.01	2.6	0.47	2.6	0.029	0.00035	0.075	0.027	0.0012
	20-May-13	26	8.78	520	740	-106	--	310	19	1	290	130	0.1	1	0.05	0.01	0.01	0.4	0.4	--	0.05	0.24	0.054	0.016	2.8	0.5	3.2	0.034	0.0011	0.075	0.03	0.0009
	3-Jun-13	28	8.71	450	650	-57	--	280	15	1	260	110	0.16	1	0.05	0.085	0.096	0.38	0.56	--	0.13	0.1	0.038	0.01	2.1	0.46	2.8	0.026	0.00042	0.075	0.024	0.0009
	17-Jun-13	30	8.72	490	700	-141	--	290	14	1	260	120	0.1	0.95	0.05	0.098	0.08	0.45	0.63	--	0.1	0.1	0.045	0.011	2.9	0.5	2.3	0.034	0.0035	0.075	0.024	0.009
	1-Jul-13	32	8.67	480	650	-81	--	280	15	1	260	79	0.35	1	0.05	0.089	0.16	0.54	0.78	--	0.06	0.27	0.053	0.018	2.6	0.54	2.5	0.032	0.0004	0.075	0.025	0.0009
	15-Jul-13	34	8.68	470	660	-134	--	290	14	1	260	100	0.14	0.95	0.05	0.12	0.081	0.68	0.88	--	0.07	0.35	0.01	0.01	3.6	0.55	2.1	0.048	0.00058	0.075	0.026	0.0009
	29-Jul-13	36	8.61	450	680	-53	--	290	14	1	260	95	0.79	0.89	0.05	0.34	0.083	0.81	1.2	--	0.05	0.21	0.01	0.01	2.3	0.52	1.7	0.031	0.00035	0.075	0.033	0.0009
	12-Aug-13	38	7.54	49	75	-64	--	39	1	1	32	5.2	0.1	0.1	0.05	0.01	0.069	0.1	0.17	#N/A	0.1	0.1	0.01	0.01	0.27	0.073	0.15	0.0078	0.00035	0.075	0.02	0.0009
	26-Aug-13	40	8.01	520	590	-155	--	260	1	1	220	84	0.51	0.72	0.27	0.23	0.07	1.8	2.1	#N/A	0.16	0.62	0.097	0.01	6.4	0.43	2.5	0.068	0.0009	0.075	0.038	0.0009
	9-Sep-13	42	8.49	440	680	-166	--	190	5.1	1	160	150	0.17	0.46	0.069	0.17	0.071	0.7	0.94	#N/A	0.1	0.1	0.033	0.01	1.1	0.26	1.1	0.012	0.00035	0.075	0.02	0.0009

Cell Terminated

Column: 63316

Test Phase	Sampling Date	Calcium mg/L	Chromium mg/L	Cobalt mg/L	Copper mg/L	Gallium mg/L	Iron mg/L	Lithium mg/L	Lead mg/L	Magnesium mg/L	Manganese mg/L	Molybdenum mg/L	Nickel mg/L	Phosphorus mg/L	Potassium mg/L	Scandium mg/L	Silicon mg/L	Silver mg/L	Sodium mg/L	Strontium mg/L	Tin mg/L	Titanium mg/L	Vanadium mg/L	Zinc mg/L	Mercury mg/L	Selenium mg/L	Thallium mg/L	Uranium mg/L
Leach Phase	6-Feb-12	12	0.019	0.15	8.2	0.1	0.12	0.1	0.003	0.5	0.005	0.18	0.56	0.5	16	0.1	--	0.098	340	2.3	0.1	0.1	0.01	10	0.0047	0.08	0.001	--
	16-Mar-12	12	0.0072	0.26	7.3	0.1	1.4	0.1	0.003	0.5	0.005	0.18	0.01	0.5	15	0.1	--	0.005	440	0.78	0.1	0.1	0.13	7.3	0.0034	0.024	0.001	--
	15-Mar-12	19	0.0074	0.26	6.9	0.1	1.3	0.1	0.006	0.82	0.005	0.18	0.01	1.2	74	0.1	--	0.005	430	0.76	0.1	0.1	0.12	6.5	0.0032	0.022	0.001	--
	22-Mar-12	8.8	0.0063	0.28	7.6	0.1	1.8	0.1	0.019	0.5	0.005	0.19	0.01	0.5	14	0.1	--	0.005	500	0.65	0.1	0.1	0.16	7.7	0.004	0.024	0.001	--
	23-Mar-12	7.2	0.006	0.26	7.2	0.1	1.7	0.1	0.006	0.5	0.005	0.18	0.01	0.5	14	0.1	--	0.005	500	0.7	0.1	0.1	0.14	6.9	0.0037	0.025	0.001	--
	30-Mar-12	8.8	0.0051	0.26	7.4	0.1	2	0.1	0.003	0.5	0.01	0.17	0.01	0.5	14	0.1	--	0.005	530	0.66	0.1	0.1	0.14	7.2	0.0042	0.025	0.001	--
	29-Mar-12	8.1	0.0052	0.27	6.6	0.1	2	0.1	0.006	0.5	0.005	0.18	0.01	0.5	14	0.1	--	0.005	530	0.62	0.1	0.1	0.14	6.6	0.0038	0.03	0.001	--
	6-Apr-12	6.3	0.005	0.29	6.7	0.1	2.4	0.1	0.038	0.5	0.03	0.18	0.01	0.5	17	0.1	--	0.005	580	0.47	0.1	0.1	0.15	8.4	0.0088	0.1	0.02	0.002
	20-Apr-12	6.2	0.005	0.23	7.9	0.1	2.8	0.1	0.05	0.5	0.026	0.17	0.023	0.5	14	0.1	--	0.005	660	0.5	0.1	0.1	0.15	8.4	0.005	0.25	0.001	--
	19-Apr-12	7.7	0.005	0.18	8.2	0.1	3	0.1	0.05	0.5	0.084	0.16	0.019	0.5	15	0.1	--	0.005	750	0.56	0.1	0.1	0.14	8.3	0.005	0.25	0.001	--
	26-Apr-12	7	0.005	0.19	7.9	0.1	3.1	0.1	0.05	0.5	0.0082	0.16	0.027	0.5	15	0.1	--	0.005	760	0.45	0.1	0.1	0.14	8.5	0.009	0.25	0.001	--
	25-Apr-12	5.8	0.005	0.2	7.3	0.1	3.2	0.1	0.05	0.5	0.023	0.15	0.032	0.5	14	0.1	--	0.005	720	0.4	0.1	0.1	0.15	8.4	0.005	0.25	0.001	--
	3-May-12	6.1	0.005	0.19	7.8	0.1	3.2	0.1	0.05	0.5	0.018	0.15	0.025	0.5	14	0.1	--	0.005	760	0.35	0.1	0.1	0.16	8.3	0.0067	0.25	0.001	--
	4-May-12	5.4	0.005	0.22	6.8	0.1	3.5	0.1	0.05	0.5	0.013	0.16	0.018	0.5	13	0.1	--	0.005	740	0.33	0.1	0.1	0.15	8.3	0.0055	0.25	0.001	--
	11-May-12	3.6	0.005	0.18	4.9	0.1	2.7	0.1	0.021	0.5	0.023	0.14	0.022	0.5	13	0.1	--	0.005	740	0.24	0.1	0.1	0.17	7.6	0.0061	0.05	0.001	--
	10-May-12	4.4	0.0061	0.17	5.6	0.1	3.2	0.1	0.048	0.5	0.041	0.15	0.028	0.5	14	0.1	--	0.005	810	0.25	0.1	0.1	0.18	8.9	0.0074	0.05	0.001	--
	17-May-12	3.7	0.005	0.25	7.5	0.1	3.8	0.1	0.016	0.5	0.016	0.14	0.035	0.5	14	0.1	--	0.005	860	0.25	0.1	0.1	0.19	8.3	0.0057	0.054	0.001	--
	18-May-12	3.9	0.005	0.26	8	0.1	3.7	0.1	0.02	0.5	0.014	0.15	0.047	0.5	13	0.1	--	0.005	810	0.24	0.1	0.1	0.18	9.6	0.0078	0.051	0.001	--
	25-May-12	3.4	0.005	0.15	5.6	0.1	3.3	0.1	0.025	0.5	0.011	0.14	0.035	0.5	14	0.1	--	0.005	900	0.22	0.1	0.1	0.19	8.8	0.0079	0.1	0.02	--
	24-May-12	3.3	0.005	0.14	5.1	0.1	3.2	0.1	0.034	0.5	0.047	0.13	0.026	0.5	14	0.1	--	0.005	920	0.23	0.1	0.1	0.18	8	0.0087	0.1	0.02	--
	1-Jun-12	3	0.005	0.27	8.2	0.1	4.7	0.1	0.035	0.5	0.041	0.14	0.039	0.5	13	0.1	--	0.005	860	0.18	0.1	0.1	0.21	9.6	0.012	0.1	0.02	--
	31-May-12	3.4	0.005	0.19	6.4	0.1	4.2	0.1	0.032	0.5	0.02	0.14	0.038	0.5	13	0.1	--	0.005	900	0.18	0.1	0.1	0.2	9.2	0.0075	0.1	0.02	--
	7-Jun-12	4.2	0.005	0.22	7.5	0.1	5.2	0.1	0.062	0.5	0.071	0.14	0.046	0.5	14	0.1	--	0.005	1000	0.19	0.1	0.1	0.23	9.1	0.0078	0.1	0.02	--
	8-Jun-12	4.1	0.005	0.16	5.3	0.1	4.5	0.1	0.066	0.5	0.027	0.14	0.029	0.5	13	0.1	--	0.005	960	0.18	0.1	0.1	0.22	8.1	0.0069	0.1	0.02	--
	15-Jun-12	4.9	0.0053	0.26	6.6	0.1	5.9	0.1	0.08	0.5	0.026	0.15	0.043	0.5	14	0.1	--	0.005	1000	0.17	0.1	0.1	0.25	9.8	0.0036	0.1	0.02	--
	14-Jun-12	4.7	0.005	0.26	7.3	0.1	6.1	0.1	0.084	0.5	0.043	0.15	0.053	0.5	14	0.1	--	0.005	1000	0.17	0.1	0.1	0.26	10	0.0034	0.1	0.02	--
	21-Jun-12	6.4	0.0051	0.28	5.1	0.1	5.8	0.1	0.15	0.5	0.027	0.13	0.04	--	11	0.1	--	0.005	780	0.14	0.1	0.1	0.22	3.5	0.0084	0.097	0.02	--
	22-Jun-12	7.2	0.0051	0.28	4.5	0.1	6	0.1	0.17	0.5	0.032	0.13	0.036	--	11	0.1	--	0.05	810	0.16	0.1	0.1	0.21	2.6	0.0064	0.093	0.02	--
Detox/ Rinse Phase	27-Jun-12	58	0.0067	0.27	3.9	0.1	7	0.1	0.26	0.5	0.032	0.14	0.035	0.7	12	0.1	--	0.005	840	0.92	0.1	0.1	0.23	1.2	0.0041	0.041	0.001	--
	2-Oct-12	16	0.01	0.4	0.23	0.1	3.9	0.1	0.57	2.5	0.068	0.18	0.01	0.7	12	0.1	--	0.005	880	0.26	0.1	0.27	0.096	0.13	0.009	0.062	0.01	--
	8-Oct-12	7.2	0.005	0.48	0.071	0.1	0.43	0.1	0.054	1.6	0.011	0.24	0.01	0.5	17	0.1	--	0.005	1300	0.34	0.1	0.1	0.029	0.02	0.0041	0.038	0.001	--
	2-Nov-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6-Nov-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6-Nov-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9-Nov-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9-Nov-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9-Nov-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	14-Nov-12	24	0.0026	0.095	2.9	0.02	0.92	0.023	0.18	1.2	0.028	0.068	0.004	0.57	12	0.001	17	8E-04	1000	0.43	0.01	0.039	0.034	0.09	0.0007	0.019	0.0002	0.24
Humidity Cell Phase	26-Nov-12	10	0.0011	0.012	0.19	0.02	0.23	0.04	0.033	1.7	0.0077	0.009	0.002	0.14	14	0.001	12	5E-04	1200	0.36	0.01	0.01	0.014	0.01	0.0007	0.0034	0.0002	0.23
	3-Dec-12	8.2	0.001	0.007	0.06	0.02	0.55	0.02	0.088	1.1	0.016	0.007	0.002	0.22	10	0.001	14	8E-04	820	0.22	0.01	0.02	0.021	0.02	0.0007	0.0096	0.0002	0.16
	10-Dec-12	6	0.002	0.01	0.26	0.02	1.2	0.02	0.22	0.51	0.032	0.025	0.003	0.3	6.1	0.001	19	0.001	450	0.12	0.01	0.04	0.029	0.04	0.00058	0.016	0.0002	0.12
	24-Dec-12	6.2	0.0023	0.004	0.083	0.02	1.5	0.02	0.23	0.47	0.034	0.009	0.004	0.57	5.1	0.001	21	0.002	360	0.1	0.01	0.05	0.027	0.04	0.00077	0.017	0.0002	0.17
	31-Dec-12	6.8	0.003	0.004	0.09	0.02	3.8	0.02	0.28	1.1	0.07	0.008	0.008	0.64	4.6	0.001	21	0.002	270	0.09	0.01	0.05	0.023	0.11	0.00026	0.015	0.0002	0.12
	7-Jan-13	5.4	0.0021	0.003	0.067	0.02	1.4	0.02	0.22	0.39	0.033	0.007	0.003	0.5	4	0.001	17	8E-04	290	0.08	0.01	0.04	0.024	0.03	0.0007	0.015	0.0002	0.13
	14-Jan-13	6.2	0.0014	0.003	0.07	0.02	1.4	0.02	0.25	0.38	0.035	0.006	0.003	0.51	4.2	0.001	19	5E-04	280	0.09	0.01	0.05	0.024	0.04	0.0004	0.017	0.0002	0.14
	21-Jan-13	5.1	0.001	0.002	0.07	0.02	1.2	0.02	0.17	0.36	0.028	0.005	0.003	0.54	3.6	0.001	15	5E-04	240	0.07	0.01	0.04	0.023	0.03	0.0007	0.011	0.0002	0.096
	28-Jan-13	6.6	0.002	0.0022	0.057	0.02	1.4	0.02	0.25	0.39	0.035	0.005	0.003	0.51	4.2	0.001	20	5E-04	260	0.088	0.01	0.05	0.028	0.04	0.00079	0.014	0.0002	0.12
	4-Feb-13	6.4	0.0021	0.002	0.079	0.02	1.7	0.02	0.27	0.44	0.042	0.005	0.004	0.49	4.2	0.001	21	5E-04	250	0.08	0.01	0.05	0.025	0.05	0.0002	0.02	0.0002	0.1
	11-Feb-13	6.9	0.0022	0.002	0.046	0.02	1.7	0.02	0.28	0.43	0.041	0.005	0.004	0.54	4.1	0.001	22	5E-04	240	0.09	0.01	0.06	0.026	0.05	0.0007	0.014	0.0002	0.11
	18-Feb-13	6	0.0028	0.002	0.034	0.02	1.4	0.02	0.24	0.4	0.036	0.005	0.004	0.53	3.9	0.001	19	0.002	240	0.08	0.01	0.04	0.023	0.04	0.001	0.013	0.0004	0.085
	25-Feb-13	6	0.0018	0.002	0.027	0.02	1.4	0.02	0.23	0.38	0.033	0.005	0.003	0.53	3.8	0.001	19	0.002	230	0.08	0.01	0.042	0.023	0.04	0.001	0.013	0.0004	0.08
	4-Mar-13	6	0.0018	0.002	0.044	0.02	1.5	0.02	0.23	0.45	0.038	0.005	0.004	0.53	3.8	0.001	20	0.002	220	0.07	0.01	0.04	0.02	0.04	0.00021	0.0098	0.0004	0.074
	11-Mar-13	5.2	0.0016	0.002	0.024	0.02	1.3	0.02	0.21	0.36	0.031	0.005	0.003	0.53	3.4	0.001	18	0.002	200	0.06	0.01	0.04	0.023	0.03	0.001	0.011	0.0004	0.067
	18-Mar-13	6	0.0033	0.002	0.039	0.02	1.4	0.02	0.22	0.37	0.034	0.005	0.003	0.51	3.9	0.001	21	0.002	220	0.074	0.01	0.041	0.026	0.04	0.001	0.011	0.0004	0.073
	25-Mar-13	5.4	0.001	0.002	0.014	0.02	1.2	0.02	0.23	0.31	0.03	0.005	0.003	0.49	3.5	0.001	19	0.002	190	0.06	0.01	0.04	0.022	0.04	0.0001	0.011	0.0004	0.069
	1-Apr-13	5.3	0.0011	0.002	0.02	0.02	1.3	0.02	0.2	0.39	0.032	0.006	0.003	0.46	3.5	0.001	18	0.002	200	0.1	0.1	0.1	0.022	0.03	0.0001	0.01	0.0004	0.054
	8-Apr-13	5.9	0.0022	0.002	0.02	0.02	1.2	0.02	0.24	0.43	0.032	0.005	0.003	0.54	3.6	0.001	19	0.002	200	0.07	0.01	0.033	0.026	0.04	0.0001	0.0098	0.0004	0.054
	15-Apr-13	6.3	0.0016	0.002	0.021	0.02	1.4	0.02	0.21	0.4	0.031	0.005	0.003	0.49	3.7	0.001	21	0.002	220	0.073	0.01	0.035	0.025	0.04	0.0001	0.0097	0.0004	0.052
	22-Apr-13	5.4	0.0023	0.002	0.016	0.02	0.99	0.02	0.16	0.37	0.023	0.005	0.002	0.45	3.7	0.001	17	0.002	200	0.065	0.01	0.026	0.023	0.03	0.001	0.0083	0.0004	0.046
	6-May-13	6	0.0021	0.002	0.025	0.02	1.4	0.02	0.28	0.4	0.036	0.005	0.003	0.54	3.2	0.001	24	0.002	180	0.07	0.01	0.037	0.031	0.04	0.0001	0.011	0.0004	0.043
	20-May-13	7.4	0.0023	0.002	0.024	0.02	1.6	0.02	0.32	0.37	0.044	0.005	0.004	0.52	3.2	0.001	25	0.002	160	0.077	0.01	0.045	0.032	0.05	0.0001	0.011	0.0004	0.04
	3-Jun-13	5.4	0.0026	0.002	0.0025	0.02	1.3	0.02	0.24	0.31	0.032	0.005	0.003	0.51	2.9	0.001	22	0.002	140	0.055	0.01	0.032	0.032	0.04	0.0001	0.01	0.0004	0.028
	17-Jun-13	7.4	0.01	0.0025	0.025	0.02	1.6	0.02	0.31	0.36	0.043	0.005	0.01	0.53	3.4	0.0012	26	0.015	150	0.075	0.01	0.042	0.031	0.05	0.00011	0.02	0.004	0.03
	1-Jul-13	7.1	0.0019	0.002	0.031	0.02	1.5	0.02	0.28	0.38	0.043	0.005	0.004	0.5	3.5	0.001	26	0.002	140	0.068	0.01	0.037	0.034	0.05	0.00014	0.0098	0.0004	0.028
	15-Jul-13	8.8	0.0022	0.0023	0.023	0.02	2	0.02	0.33	0.54	0.048	0.005	0.004	0.8	4.8	0.001	--	0.002	190	0.084	0.01	0.044	0.034	0.06	0.0001	0.0089	0.0004	0.029
	29-Jul-13	6.9	0.0017	0.002	0.02	0.02	1.4	0.02	0.24	0.34	0.041	0.005	0.003	0.52	3.9	0.001	25	0.002	150	0.069	0.01	0.031	0.026	0.06	0.0001	0.0094	0.0004	0.031
	12-Aug-13	3.1	0.001	0.002	0.0037	0.02	0.16	0.02	0.11	0.25	0.0061	0.005	0.001	0.23	0.46	0.001	1.9	0.002	14	0.025	0.01	0.005	0.01	0.01	0.0001	0.002	0.001	0.0026
	26-Aug-13	13	0.004	0.01	0.087	0.02	4.6	0.02	0.53	0.91	0.086	0.0062	0.012	0.95	5	0.0019	38	0.002	160	0.12	0.01	0.068	0.032	0.08	0.00028	0.049	0.0004	0.053
	9-Sep-13	4.5	0.001	0.002	0.015	0.02	0.62	0.02	0.085	0.25	0.0089	0.005	0.002	0.34	4	0.001	17	0.002	140	0.061	0.01	0.013	0.013	0.01	0.0001	0.009	0.0004	0.031

Cell Terminated

Column: 63322

Test Phase	Sampling Date	Cycle Code	pH	Total Dissolved Solids	Electrical Conductivity	Redox Potential	Acidity (Titrimetric)	Bicarbonate	Carbonate	Hydroxide	Total Alkalinity	Sulfate	Chloride	Fluoride	Ammonia	Nitrate	Nitrite	Total Kjeldahl Nitrogen	Total Nitrogen	Total Organic Carbon (TOC)	Cyanate	Thiocyanate	Total Cyanide	WAD Cyanide	Aluminum	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium
				mg/L	µmhos/cm	mV	mg/L as CaCO3	mg/L as CaCO3	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	--	mg/L	mg/L	mg/L	--	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Leach Phase	6-Feb-12	-40	--	--	--	--	--	--	--	--	--	32	25	1.1	--	0.48	0.26	--	--	--	--	--	--	--	0.6	0.007	0.0086	0.018	0.001	0.1	0.1	0.034
	16-Mar-12	-35	--	--	--	--	--	--	--	--	--	160	38	2.1	--	0.52	1.7	--	--	--	--	--	--	--	0.27	0.093	1.5	0.01	0.001	0.1	0.1	0.0062
	15-Mar-12	-35	--	--	--	--	--	--	--	--	--	150	36	1.6	--	0.5	0.96	--	--	--	--	--	--	--	0.2	0.08	1.1	0.01	0.001	0.1	0.1	0.0017
	22-Mar-12	-34	--	--	--	--	--	--	--	--	--	180	37	2.3	--	0.52	1.5	--	--	--	--	--	--	--	0.21	0.13	2.2	0.01	0.001	0.1	0.1	0.0041
	23-Mar-12	-34	--	--	--	--	--	--	--	--	--	140	31	2	--	0.49	1.3	--	--	--	--	--	--	--	0.2	0.12	1.7	0.01	0.001	0.1	0.1	0.0035
	30-Mar-12	-33	--	--	--	--	--	--	--	--	--	140	25	2	--	0.45	0.96	--	--	--	--	--	--	--	0.19	0.14	2	0.01	0.001	0.1	0.1	0.0048
	29-Mar-12	-33	--	--	--	--	--	--	--	--	--	160	28	2.1	--	0.48	1.1	--	--	--	--	--	--	--	0.24	0.15	2.6	0.012	0.001	0.1	0.1	0.0058
	13-Apr-12	-31	--	1700	4000	--	--	--	--	--	--	--	--	--	--	--	--	--	43	--	--	--	--	--	0.44	0.19	3.6	0.05	0.001	0.1	0.84	0.0061
	20-Apr-12	-30	10.2	--	3800	75	--	1	190	23	390	220	590	1.8	--	1	1.9	--	--	--	--	--	--	--	0.045	0.21	2.7	0.014	0.001	0.1	0.21	0.007
	19-Apr-12	-30	10.3	--	3800	64	--	1	160	44	390	220	600	1.8	--	1	1.4	--	--	--	--	--	--	--	0.083	0.21	2.6	0.021	0.001	0.1	0.21	0.0077
	26-Apr-12	-29	10.4	--	3900	76	--	1	200	48	470	240	550	2	--	1	2.4	--	--	--	--	--	--	--	0.08	0.26	3.3	0.024	0.001	0.1	0.22	0.0096
	25-Apr-12	-29	10.4	--	3900	79	--	1	220	34	470	240	560	2	--	1	2.7	--	--	--	--	--	--	--	0.045	0.23	3.1	0.01	0.001	0.1	0.22	0.0098
	3-May-12	-28	10.6	--	4100	84	--	1	240	61	570	250	530	2.2	--	1	2.6	--	--	--	--	--	--	--	0.14	0.27	4.2	0.026	0.001	0.1	0.21	0.011
	4-May-12	-28	10.5	--	4200	99	--	1	250	31	500	260	550	2.2	--	1	2.6	--	--	--	--	--	--	--	0.36	0.27	3.8	0.09	0.001	0.1	0.22	0.011
	11-May-12	-27	10.4	--	--	--	--	1	130	54	590	270	270	2.7	--	2	2	--	--	--	--	--	--	--	0.045	0.38	6	0.01	0.001	0.1	0.17	0.015
	10-May-12	-27	10.4	--	--	--	--	1	250	64	600	240	480	2.4	--	1	2.3	--	--	--	--	--	--	--	0.045	0.33	4.4	0.013	0.001	0.1	0.25	0.015
	17-May-12	-26	10.4	--	3900	76	--	1	310	27	590	240	450	2.5	--	1	2.2	--	--	--	--	--	--	--	0.18	0.39	5.9	0.035	0.001	0.1	0.25	0.016
	18-May-12	-26	10.5	--	4100	87	--	1	320	33	630	230	450	2.4	--	1	2.3	--	--	--	--	--	--	--	0.2	0.38	5.4	0.01	0.001	0.1	0.25	0.016
	25-May-12	-25	10.5	--	--	--	--	1	260	60	610	270	490	2.4	--	--	--	--	--	--	--	--	--	--	0.045	0.41	6.4	0.013	0.001	0.1	0.26	0.016
	24-May-12	-25	10.5	--	--	--	--	1	330	46	680	270	490	2.3	--	--	--	--	--	--	--	--	--	--	0.045	0.43	6.4	0.01	0.001	0.1	0.26	0.016
	1-Jun-12	-24	--	--	--	--	--	--	--	--	--	250	450	2.8	--	1	2.6	--	--	--	--	--	--	--	0.045	0.42	6.7	0.01	0.001	0.1	0.31	0.02
	31-May-12	-24	--	--	--	--	--	--	--	--	--	250	440	2.7	--	1	2.5	--	--	--	--	--	--	--	0.45	0.44	7.3	0.011	0.001	0.1	0.28	0.019
	7-Jun-12	-23	10.5	--	--	--	--	1	410	36	790	230	400	2.6	--	1	2.3	--	--	--	--	--	--	--	0.18	0.5	7.9	0.023	0.001	0.1	0.3	0.019
	8-Jun-12	-23	10.4	--	--	--	--	1	400	26	740	220	380	2.6	--	1	2.2	--	--	--	--	--	--	--	0.072	0.48	7.6	0.013	0.001	0.1	0.33	0.019
	15-Jun-12	-22	10.3	--	--	--	--	170	390	1	780	240	400	2.7	--	1	2.9	--	--	--	--	--	--	--	0.065	0.51	9.5	0.01	0.001	0.1	0.36	0.021
	14-Jun-12	-22	10.2	--	--	--	--	210	350	1	750	250	430	2.9	--	1	3.4	--	--	--	--	--	--	--	0.086	0.55	9.8	0.01	0.001	0.1	0.36	0.021
	21-Jun-12	-21	9.95	--	--	--	--	290	180	1	530	240	390	2.7	--	--	--	--	--	--	--	--	--	--	0.33	0.57	10	0.011	0.001	0.1	0.32	0.0064
	22-Jun-12	-21	9.88	--	--	--	--	330	190	1	590	230	390	2.6	--	--	--	--	--	--	--	--	--	--	0.24	0.58	10	0.01	0.001	0.1	0.31	0.0048
Detox/ Rinse Phase	27-Jun-12	-20	9.81	2000	--	--	--	330	180	1	560	260	390	2.8	74	--	--	78	81	--	160	42	--	--	0.71	0.63	11	0.047	0.001	0.1	0.24	0.0082
	26-Sep-12	-7	--	--	--	--	--	--	--	--	--	--	--	--	81	36	4.1	85	130	--	170	82	--	--	1.4	0.74	11	0.025	0.001	0.1	0.22	0.001
	2-Oct-12	-6	8.8	3500	--	--	--	590	32	1	540	470	560	1.8	97	--	--	100	310	--	170	45	0.38	0.19	0.15	0.63	2.7	0.022	0.001	0.1	0.25	0.001
	8-Oct-12	-5	--	--	--	--	--	--	--	--	--	--	--	--	49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	14-Nov-12	0	8.77	2900	4500	250	--	740	50	1	690	1000	160	1.5	13	33	1.8	29	31	--	28	9	0.34	0.09	0.94	0.47	3.3	0.035	0.0004	0.075	0.2	0.0002
Humidity Cell Phase	26-Nov-12	1	8.75	2600	4000	44	--	630	39	1	580	1200	100	1.2	0.55	2	0.42	1.8	4.2	--	8.5	2.5	0.17	0.065	0.46	0.35	2.5	0.024	0.0002	0.075	0.16	0.002
	10-Dec-12	3	8.88	2400	3600	240	--	580	49	1	560	1100	85	1.2	0.33	0.74	0.26	0.89	1.2	7.6	5.3	1.2	0.33	0.16	0.95	0.41	2.7	0.021	0.001	0.075	0.16	0.0011
	24-Dec-12	5	8.99	1400	2100	270	--	880	89	1	870	150	44	2	0.6	1.3	6.3	4.3	11	--	3.5	9.9	1.2	1.2	8.2	0.34	6.2	0.072	0.0011	0.075	0.22	0.0004
	31-Dec-12	6	8.82	780	1200	300	--	690	49	1	650	28	1.3	1.4	0.45	0.39	0.36	0.9	1.3	--	3.2	1.9	0.12	0.082	3.1	0.35	4.3	0.029	0.0002	0.075	0.13	0.0002
	7-Jan-13	7	8.92	790	1200	250	--	670	62	1	660	21	0.38	1.1	0.072	0.1	0.078	0.62	0.7	--	2.3	1.9	0.09	0.066	2.3	0.34	4	0.026	0.0006	0.075	0.14	0.0002
	14-Jan-13	8	8.9	730	1200	290	--	630	61	1	620	20	0.21	1.1	0.05	0.1	0.061	0.65	0.71	--	2	1.2	0.056	0.029	2.2	0.35	3.8	0.026	0.0004	0.075	0.12	0.0006
	21-Jan-13	9	8.85	720	1100	330	--	650	35	1	590	23	0.25	1.1	0.05	0.034	0.046	0.64	0.68	--	2.8	1	0.041	0.015	2.1	0.29	3.2	0.025	0.0005	0.075	0.11	0.0004
	28-Jan-13	10	8.76	700	1100	370	--	640	29	1	570	26	0.27	1.1	0.05	0.1	0.01	0.64	0.64	--	2.9	1.3	0.046	0.017	2	0.31	3.2	0.025	0.0002	0.075	0.11	0.0002
	4-Feb-13	11	8.68	670	1100	320	--	650	23	1	570	25	0.2	1	0.05	0.01	0.01	0.88	0.88	--	3.1	1.3	0.033	0.01	1.8	0.29	2.9	0.025	0.0002	0.075	0.094	0.0002
	11-Feb-13	12	8.84	680	1100	290	--	620	40	1	580	25	0.2	0.93	0.05	0.01	0.01	1.1	1.1	--	3.2	1.1	0.046	0.024	2.1	0.3	2.8	0.027	0.0002	0.075	0.095	0.0002
	18-Feb-13	13	8.6	710	1000	180	--	630	17	1	540	24	1.1	0.84	0.05	0.061	0.01	0.96	0.96	--	4.9	0.96	0.033	0.01	2.2	0.28	2.7	0.029	0.00035	0.075	0.084	0.0009
	25-Feb-13	14	8.77	620	1000	440	--	600	29	1	540	23	0.1	0.75	0.05	0.023	0.033	0.58	0.64	--	3.2	1.1	0.05	0.05	2	0.25	2.4	0.027	0.00035	0.075	0.078	0.0009
	4-Mar-13	15	8.63	620	960	24	--	580	19	1	500	24	0.1	0.72	0.05	0.017	0.01	0.47	0.49	--	2.7	0.81	0.038	0.03	1.8	0.26	2.3	0.023	0.00035	0.075	0.076	0.0009
	11-Mar-13	16	9.11	1100	1700	91	--	750	94	1	770	73	17	1.5	0.18	0.28	8	2.3	11	--	0.15	1.7	0.6	0.48	1.6	0.37	4.2	0.03	0.00035	0.075	0.17	0.0009
	18-Mar-13	17	8.71	660	1000	60	--	570	25	1	510	38	0.1	0.65	0.05	0.01	0.084	0.43	0.52	--	0.62	0.13	0.048	0.019	2.2	0.24	2.2	0.036	0.00035	0.075	0.078	0.0009
	25-Mar-13	18	8.76	570	860	182	--	480	26	1	430	44	0.1	0.66	0.05	0.01	0.012	0.46	0.47	--	0.41	0.41	0.041	0.014	2.2	0.18	1.7	0.03	0.00035	0.075	0.05	0.0009
	1-Apr-13	19	8.75	560	860	128	--	460	25	1	420	48	0.1	0.6	0.05	0.011	0.042	0.4	0.45	--	0.15	0.48	0.041	0.024	2.1	0.22	1.8	0.029	0.00035	0.075	0.06	0.0009
	8-Apr-13	20	8.78	570	920	150	--	470	24	1	420	58	0.1	0.63	0.05	0.01	0.015	0.34	0.35	--	0.2	0.16	0.068	0.049	1.4	0.21	1.7	0.022	0.0004	0.075	0.067	0.0009
	15-Apr-13	21	8.68	540	870	178	--	440	19	1	390	62	0.1	0.56	0.05	0.01	0.028	0.28	0.28	--	0.09	0.14	0.041	0.024	1.5	0.2	1.6	0.023	0.00035	0.075	0.06	0.0009
	22-Apr-13	22	8.61	560	930	48	--	450	15	1	390	76	0.1	0.56	0.051	0.01	0.04	0.32	0.32	--	0.09	0.22	0.067	0.036	1.4	0.21	1.5	0.022	0.0004	0.075	0.052	0.0009
	6-May-13	24	8.68	520	840	128	--	420	19	1	380	80	0.11	0.57	0.13	0.01	0.062	1.5	1.6	--	0.09	0.36	2.3	1.9	1.4	0.2	1.4	0.021	0.00035	0.075	0.048	0.0009
	20-May-13	26	8.65	490	760	186	--	420	16	1	370	38	0.12	0.54	0.31	0.084	0.14	1.9	2.2	--	0.05	0.65	2.3	2.2	1.2	0.19	1.4	0.019	0.00093	0.075	0.044	0.0009
	3-Jun-13	28	8.57	460	720	206	--	410	12	1	360	33	0.1	0.59	0.33	0.089	0.14	2.6	2.8	--	0.05	0.98	3.9	3.7	1.1	0.21	1.5	0.018	0.00035	0.075	0.039	0.0009
	17-Jun-13	30	9.04	770	1200	218	--	550	60	1	550	53	7.3	0.88	1.1	0.28	6.5	5.9	13	--	2.4	2.1	5.2	6.4	2.4	0.29	2.5	0.055	0.0035	0.075	0.12	0.009
	1-Jul-13	32	8.49	420	630	260	--	380	8.4	1	320	17	0.3	1	0.16	0.086	0.01	3.4	3.5	--	0.22	1.7	2.2	1.3	0.94	0.18	1.1	0.016	0.00035	0.075	0.029	0.0009
	15-Jul-13	34	8.48	370	630	238	--	370	7.3	1	320	16	0.1	0.43	0.35	0.086	0.13	3	3.3	--	0.39	1.4	3.6	3.2	1.2	0.19	1.1	0.024	0.00044	0.075	0.042	0.0009
	29-Jul-13	36	8.4	380	620	67	--	350	5.5	1	300	28	0.1	0.4	0.05	0.08	0.099	0.57	0.75	--	0.05	0.1	0.01	0.01	0.77	0.2	0.92	0.015	0.00035	0.075	0.038	0.0009
	12-Aug-13	38	8.42	420	630	-96	--	310	5	1	260	65	0.2	0.38	0.05	0.01	0.01	0.51	0.51	#N/A	0.1	0.1	0.014	0.01	0.75	0.18	0.71	0.014	0.00035	0.075	0.032	0.0009
	26-Aug-13	40	8.32	400	630	-138	--	300	2.1	1	250	79	0.12	0.37	0.05	0.01	0.01	0.32	0.32	#N/A	0.1	0.1	0.01	0.01	0.77	0.19	0.68	0.012	0.00035	0.075	0.033	0.0009
	9-Sep-13	42	8.3	360	600	-150	--	280	1	1	230	63	0.1	0.32	0.05	0.081	0.1	0.34	0.53	#N/A	0.1	0.1	0.011	0.01	0.66	0.19	0.62	0.0097	0.00035	0.075	0.024	0.0009

Cell Terminated

Column: 63322

Test Phase	Sampling Date	Calcium mg/L	Chromium mg/L	Cobalt mg/L	Copper mg/L	Gallium mg/L	Iron mg/L	Lithium mg/L	Lead mg/L	Magnesium mg/L	Manganese mg/L	Molybdenum mg/L	Nickel mg/L	Phosphorus mg/L	Potassium mg/L	Scandium mg/L	Silicon mg/L	Silver mg/L	Sodium mg/L	Strontium mg/L	Tin mg/L	Titanium mg/L	Vanadium mg/L	Zinc mg/L	Mercury mg/L	Selenium mg/L	Thallium mg/L	Uranium mg/L
Leach Phase	6-Feb-12	7.1	0.02	0.18	6.6	0.1	0.02	0.1	0.003	0.5	0.005	0.16	0.44	0.5	11	0.1	--	0.18	290	1.8	0.1	0.1	0.01	7.2	0.0033	0.063	0.001	--
	16-Mar-12	1.6	0.022	0.24	5.4	0.1	0.77	0.1	0.003	0.5	0.0085	0.17	0.011	0.5	9.6	0.1	--	0.005	420	0.3	0.1	0.1	0.13	5	0.0032	0.025	0.001	--
	15-Mar-12	5.1	0.02	0.21	3.9	0.1	0.7	0.1	0.006	0.63	0.045	0.16	0.01	0.66	34	0.1	--	0.005	390	0.47	0.1	0.1	0.12	2.5	0.0032	0.025	0.001	--
	22-Mar-12	2.2	0.018	0.22	4.1	0.1	1.1	0.1	0.006	0.5	0.0072	0.16	0.01	0.5	7.5	0.1	--	0.005	410	0.35	0.1	0.1	0.15	3.8	0.0033	0.025	0.001	--
	23-Mar-12	1.7	0.014	0.17	4.5	0.1	0.95	0.1	0.01	0.5	0.15	0.12	0.01	0.5	8.3	0.1	--	0.005	480	0.41	0.1	0.1	0.12	3.2	0.0026	0.025	0.001	--
	30-Mar-12	2.1	0.01	0.13	3.5	0.1	1.2	0.1	0.005	0.5	0.21	0.09	0.01	0.5	8.6	0.1	--	0.005	460	0.39	0.1	0.1	0.12	3.2	0.0026	0.01	0.001	--
	29-Mar-12	4.1	0.012	0.15	3.5	0.1	1.4	0.1	0.013	0.5	0.047	0.1	0.01	0.5	7.9	0.1	--	0.005	420	0.31	0.1	0.1	0.13	3.9	0.0027	0.015	0.001	--
	13-Apr-12	36	0.012	0.093	2.8	0.1	1.7	1.6	0.088	170	0.11	0.092	0.015	0.5	9.8	0.1	--	0.005	440	0.8	0.1	0.1	0.19	3.3	0.0061	0.1	0.02	0.002
	20-Apr-12	5.4	0.0078	0.12	3.5	0.1	2	0.29	0.05	0.83	0.047	0.081	0.18	0.5	14	0.1	--	0.005	750	0.52	0.1	0.1	0.069	5	0.005	0.25	0.05	--
	19-Apr-12	5.8	0.0065	0.12	3.6	0.1	2	0.29	0.05	0.74	0.054	0.081	0.016	0.5	15	0.1	--	0.005	790	0.66	0.1	0.1	0.066	4	0.005	0.25	0.05	--
	26-Apr-12	7.6	0.0068	0.12	4.3	0.1	2.4	0.24	0.05	0.69	0.2	0.084	0.049	0.5	16	0.1	--	0.005	870	0.6	0.1	0.1	0.072	7.6	0.005	0.25	0.05	--
	25-Apr-12	5.8	0.0075	0.11	3.5	0.1	2	0.24	0.05	0.81	0.11	0.088	0.094	0.5	16	0.1	--	0.005	810	0.5	0.1	0.1	0.077	8.1	0.005	0.25	0.05	--
	3-May-12	50	0.007	0.1	3.8	0.1	2.7	0.19	0.05	1	0.27	0.08	0.041	0.5	16	0.1	--	0.005	890	1.3	0.1	0.1	0.086	7.4	0.005	0.25	0.05	--
	4-May-12	10	0.0085	0.12	4.4	0.1	3.7	0.19	0.091	0.72	0.22	0.085	0.04	0.5	16	0.1	--	0.005	840	0.52	0.1	0.1	0.082	7.5	0.005	0.25	0.05	--
	11-May-12	5	0.0088	0.13	4.1	0.1	2.9	0.1	0.011	0.5	0.16	0.092	0.22	0.5	11	0.1	--	0.005	700	0.27	0.1	0.1	0.13	7.4	0.0051	0.05	0.001	--
	10-May-12	5.6	0.0067	0.12	3.8	0.1	3	0.14	0.006	0.5	0.14	0.084	0.047	0.5	13	0.1	--	0.005	780	0.33	0.1	0.1	0.1	8.3	0.0052	0.05	0.001	--
	17-May-12	38	0.0072	0.12	3.6	0.1	3.4	0.13	0.032	0.84	0.22	0.079	0.048	0.5	12	0.1	--	0.005	830	0.83	0.1	0.1	0.12	8.4	0.0047	0.05	0.001	--
	18-May-12	4.8	0.0057	0.12	3.8	0.1	3.2	0.13	0.019	0.5	0.17	0.078	0.046	0.5	12	0.1	--	0.005	840	0.26	0.1	0.1	0.1	8.4	0.0042	0.05	0.001	--
	25-May-12	4.1	0.0056	0.12	3.7	0.1	3.4	0.1	0.013	0.5	0.091	0.077	0.045	0.5	11	0.1	--	0.005	820	0.23	0.1	0.1	0.12	8.3	0.0052	0.05	0.01	--
	24-May-12	4.6	0.0061	0.13	4.3	0.1	3.7	0.11	0.011	0.5	0.18	0.08	0.042	0.5	12	0.1	--	0.005	890	0.27	0.1	0.1	0.12	8.4	0.0059	0.05	0.01	--
	1-Jun-12	3.1	0.0072	0.15	4.6	0.1	3.8	0.1	0.02	0.5	0.16	0.088	0.049	0.5	11	0.1	--	0.005	840	0.21	0.1	0.1	0.14	10	0.0046	0.1	0.02	--
	31-May-12	4.6	0.0051	0.13	4.3	0.1	4.1	0.11	0.016	0.5	0.12	0.077	0.051	0.5	11	0.1	--	0.005	880	0.21	0.1	0.1	0.13	9.1	0.0038	0.05	0.01	--
	7-Jun-12	38	0.0071	0.11	3.8	0.1	3.8	0.1	0.037	0.82	0.22	0.074	0.063	0.5	10	0.1	--	0.005	920	0.76	0.1	0.1	0.15	8.8	0.0045	0.1	0.02	--
	8-Jun-12	4.3	0.0062	0.12	4.2	0.1	4	0.1	0.023	0.5	0.12	0.078	0.062	0.5	9.9	0.1	--	0.005	850	0.2	0.1	0.1	0.16	8.8	0.0033	0.05	0.01	--
	15-Jun-12	4.1	0.0079	0.14	4.4	0.1	4.3	0.1	0.03	0.5	0.054	0.092	0.1	0.5	10	0.1	--	0.005	940	0.15	0.1	0.1	0.18	12	0.002	0.05	0.01	--
	14-Jun-12	5.5	0.0097	0.15	3.7	0.1	4.6	0.1	0.03	0.5	0.05	0.099	0.12	0.5	11	0.1	--	0.005	1000	0.2	0.1	0.1	0.2	13	0.0022	0.05	0.01	--
	21-Jun-12	5.3	0.0087	0.16	3.5	0.1	4.3	0.1	0.049	0.5	0.02	0.083	0.076	--	8.3	0.1	--	0.005	770	0.15	0.1	0.1	0.17	7.5	0.0081	0.061	0.01	--
	22-Jun-12	4.4	0.0086	0.16	3.3	0.1	4.3	0.1	0.05	0.5	0.018	0.086	0.074	--	8.2	0.1	--	0.005	760	0.14	0.1	0.1	0.17	7	0.0032	0.059	0.01	--
Detox/ Rinse Phase	27-Jun-12	100	0.0095	0.13	2.2	0.1	4.7	0.1	0.082	1.7	0.23	0.08	0.056	0.57	8.6	0.1	--	0.005	750	1.8	0.1	0.1	0.16	4.5	0.0032	0.023	0.001	--
	26-Sep-12	11	0.0055	0.18	7	0.1	1.2	0.12	0.19	0.58	0.016	0.1	0.18	0.56	9.3	0.1	--	0.0053	860	0.2	0.1	0.1	0.058	0.07	0.0073	0.045	0.01	--
	2-Oct-12	11	0.005	0.19	0.078	0.1	0.16	0.22	0.018	3.7	0.005	0.12	0.01	0.5	16	0.1	--	0.005	1500	0.4	0.1	0.1	0.016	0.01	0.0023	0.005	0.001	--
	8-Oct-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	14-Nov-12	31	0.003	0.043	1.3	0.02	0.78	0.19	0.09	3.6	0.03	0.024	0.009	0.32	12	0.001	16	0.0027	1000	0.57	0.01	0.021	0.021	0.08	0.0007	0.01	0.0002	0.17
Humidity Cell Phase	26-Nov-12	8.9	0.0015	0.01	0.076	0.02	0.24	0.17	0.053	3	0.0051	0.005	0.002	0.19	12	0.001	13	0.0011	1100	0.33	0.01	0.01	0.017	0.01	0.0007	0.02	0.0002	0.14
	10-Dec-12	11	0.0015	0.01	0.27	0.02	0.5	0.15	0.11	2.6	0.013	0.007	0.004	0.25	9.5	0.001	16	0.0015	810	0.29	0.01	0.02	0.017	0.03	0.00034	0.014	0.0002	0.12
	24-Dec-12	19	0.021	0.024	1.3	0.02	7.5	0.1	0.38	2.7	0.13	0.015	0.27	0.7	7.2	0.0015	33	0.0071	500	0.32	0.01	0.08	0.045	0.41	0.00077	0.018	0.0002	0.066
	31-Dec-12	6.6	0.0034	0.006	0.29	0.02	2	0.06	0.26	0.82	0.046	0.005	0.01	0.58	4.1	0.001	20	0.0026	280	0.1	0.01	0.07	0.021	0.08	0.0007	0.014	0.0002	0.063
	7-Jan-13	5.2	0.0027	0.005	0.23	0.02	1.2	0.06	0.25	0.66	0.036	0.005	0.004	0.53	3.8	0.001	19	0.0006	290	0.09	0.01	0.07	0.023	0.05	0.0007	0.014	0.0002	0.069
	14-Jan-13	5.3	0.0026	0.005	0.23	0.02	1.2	0.06	0.24	0.65	0.033	0.005	0.003	0.54	3.7	0.001	19	0.0005	270	0.08	0.01	0.07	0.026	0.05	0.0004	0.014	0.0002	0.071
	21-Jan-13	5.1	0.0025	0.004	0.14	0.02	1.1	0.05	0.21	0.6	0.033	0.005	0.003	0.48	3.4	0.001	18	0.0005	240	0.08	0.01	0.07	0.024	0.04	0.0007	0.012	0.0002	0.053
	28-Jan-13	5.1	0.0028	0.0039	0.11	0.02	1.1	0.056	0.22	0.65	0.032	0.005	0.003	0.39	3.6	0.001	18	0.0005	250	0.078	0.01	0.077	0.021	0.04	0.00087	0.0089	0.0002	0.053
	4-Feb-13	5.3	0.0025	0.004	0.13	0.02	1.1	0.05	0.22	0.65	0.033	0.005	0.003	0.35	3.6	0.001	18	0.0005	250	0.08	0.01	0.07	0.02	0.05	0.0007	0.002	0.0002	0.046
	11-Feb-13	5.1	0.0028	0.004	0.093	0.02	1.3	0.05	0.23	0.69	0.036	0.005	0.003	0.4	3.7	0.001	19	0.0005	240	0.08	0.01	0.08	0.02	0.04	0.0007	0.008	0.0002	0.047
	18-Feb-13	5.5	0.0042	0.003	0.077	0.02	1.5	0.06	0.23	0.71	0.04	0.005	0.004	0.43	3.7	0.001	18	0.0015	240	0.08	0.01	0.08	0.018	0.04	0.001	0.0071	0.0004	0.044
	25-Feb-13	5.8	0.0026	0.003	0.068	0.02	1.2	0.05	0.23	0.68	0.035	0.005	0.004	0.42	3.6	0.001	18	0.0015	230	0.08	0.01	0.076	0.02	0.05	0.001	0.0089	0.0004	0.043
	4-Mar-13	5	0.0025	0.003	0.075	0.02	1.1	0.05	0.21	0.6	0.032	0.005	0.003	0.42	3.1	0.001	18	0.0015	210	0.07	0.01	0.07	0.015	0.04	0.0001	0.002	0.0004	0.042
	11-Mar-13	5.8	0.012	0.013	0.37	0.02	1.3	0.09	0.22	2.6	0.035	0.008	0.15	0.7	5.7	0.001	19	0.0023	370	0.08	0.01	0.07	0.034	0.1	0.001	0.014	0.0004	0.082
	18-Mar-13	6.5	0.0054	0.0029	0.11	0.02	1.3	0.054	0.22	0.76	0.037	0.005	0.008	0.43	3.6	0.001	19	0.0015	230	0.09	0.01	0.072	0.018	0.1	0.001	0.0053	0.0004	0.047
	25-Mar-13	5.2	0.0014	0.002	0.051	0.02	1.4	0.04	0.22	0.6	0.036	0.005	0.005	0.43	3.3	0.001	18	0.0015	200	0.07	0.01	0.07	0.016	0.05	0.0001	0.0065	0.0004	0.048
	1-Apr-13	5.8	0.002	0.0023	0.049	0.02	1.4	0.044	0.2	0.61	0.035	0.005	0.004	0.39	3.1	0.001	18	0.0015	200	0.071	0.01	0.074	0.016	0.04	0.0001	0.0067	0.0004	0.045
	8-Apr-13	4.9	0.0029	0.0026	0.043	0.02	0.87	0.043	0.18	0.56	0.026	0.005	0.002	0.42	3	0.001	16	0.0015	210	0.069	0.01	0.047	0.018	0.04	0.00015	0.0061	0.0004	0.046
	15-Apr-13	5	0.0019	0.002	0.032	0.02	0.99	0.044	0.17	0.59	0.025	0.005	0.003	0.5	3.2	0.001	17	0.0015	230	0.07	0.01	0.051	0.019	0.03	0.0001	0.0062	0.0004	0.048
	22-Apr-13	4.2	0.003	0.0021	0.026	0.02	0.94	0.041	0.17	0.54	0.023	0.005	0.002	0.39	3	0.001	16	0.0015	200	0.059	0.01	0.046	0.018	0.03	0.001	0.0062	0.0004	0.049
	6-May-13	4.7	0.0021	0.005	1.1	0.02	0.86	0.044	0.18	0.56	0.024	0.005	0.13	0.36	3	0.001	16	0.032	210	0.07	0.01	0.042	0.016	0.03	0.00037	0.01	0.0004	0.05
	20-May-13	4.7	0.002	0.011	1.7	0.02	0.84	0.038	0.16	0.5	0.025	0.005	0.14	0.35	2.9	0.001	15	0.042	170	0.063	0.01	0.039	0.014	0.03	0.00027	0.0086	0.0004	0.045
	3-Jun-13	4.5	0.003	0.036	3.1	0.02	0.7	0.037	0.17	0.47	0.022	0.005	0.18	0.33	2.8	0.001	15	0.036	160	0.058	0.01	0.035	0.012	0.02	0.00029	0.0079	0.0004	0.043
	17-Jun-13	15	0.024	0.03	3.4	0.02	4	0.077	0.23	2.8	0.071	0.005	0.69	0.56	4.8	0.001	19	0.024	270	0.21	0.01	0.046	0.024	0.53	0.00035	0.02	0.004	0.071
	1-Jul-13	5.1	0.0014	0.028	3.4	0.02	0.52	0.034	0.12	0.46	0.018	0.005	0.12	0.33	2.9	0.001	14	0.012	140	0.063	0.01	0.027	0.011	0.03	0.00014	0.0075	0.0004	0.039
	15-Jul-13	5.9	0.0015	0.021	2.4	0.02	0.72	0.044	0.12	0.56	0.022	0.005	0.077	0.61	3.6	0.001	--	0.009	180	0.07	0.01	0.028	0.013	0.03	0.0001	0.0053	0.0004	0.036
	29-Jul-13	4.7	0.0012	0.0038	0.032	0.02	0.53	0.039	0.1	0.44	0.017	0.005	0.005	0.45	2.7	0.001	14	0.0015	140	0.058	0.01	0.021	0.011	0.02	0.0001	0.0043	0.0004	0.04
	12-Aug-13	4.6	0.0011	0.002	0.024	0.02	0.44	0.042	0.1	0.43	0.013	0.005	0.001	0.42	2.6	0.001	12	0.0015	140	0.056	0.01	0.019	0.01	0.02	0.0001	0.0031	0.001	0.042
	26-Aug-13	5	0.001	0.002	0.023	0.02	0.44	0.045	0.089	0.44	0.013	0.005	0.001	0.35	3.4	0.001	12	0.0015	170	0.058	0.01	0.018	0.01	0.02	0.0001	0.0069	0.0004	0.039
	9-Sep-13	4.3	0.001	0.002	0.012	0.02	0.35	0.041	0.061	0.37	0.022	0.005	0.002	0.27	3	0.001	11	0.0015	130	0.051	0.01	0.012	0.01	0.04	0.0001	0.0025	0.0004	0.031

Cell Terminated

Column: Hcol 7B

Test Phase	Sampling Date	Cycle Code	pH	Total Dissolved Solids mg/L	Redox Potential mV	Electrical Conductivity µmhos/cm	Acidity (pH 8.3) mg/L as CaCO3	Bicarbonate mg/L	Carbonate mg/L	Hydroxide mg/L	Total Alkalinity mg/L as CaCO3	Sulphate mg/L	Chloride mg/L	Fluoride mg/L	Ammonia mg/L	Nitrate mg/L	Nitrite mg/L	Total Nitrogen mg/L	Cyanate mg/L	Thiocyanate mg/L	Total Cyanide mg/L	WAD Cyanide mg/L	Free NaCN g/L	Aluminum mg/L	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Bismuth mg/L	Boron mg/L	Cadmium mg/L
Leach Phase	12/1/2009	-25	11.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	228.48	--	0.58	0.30	0.01	0.02	0.71	--	--	--	0.01900
	12/4/2009	-25	10.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	173.33	--	0.44	--	0.02	0.03	0.06	--	--	--	0.00900
	12/8/2009	-24	10.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	149.70	--	0.38	--	0.01	0.03	0.06	--	--	--	0.01200
	12/15/2009	-23	10.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	208.79	--	0.53	--	0.03	0.15	0.08	--	--	--	0.00700
	12/18/2009	-23	10.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	216.67	--	0.55	--	0.04	0.17	0.06	--	--	--	0.00700
	12/22/2009	-22	10.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	189.09	--	0.48	--	0.06	0.11	0.07	--	--	--	0.00700
	12/24/2009	-22	10.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	177.27	--	0.45	0.10	0.05	0.14	0.06	--	--	--	0.00700
	12/28/2009	-21	10.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	146.85	--	0.37	0.10	0.06	0.12	0.05	--	--	--	0.00800
	12/29/2009	-21	10.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	169.39	--	0.43	--	0.07	0.28	0.06	--	--	--	0.00900
	12/30/2009	-21	10.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	177.27	--	0.45	--	0.08	0.31	0.07	--	--	--	0.00900
	12/31/2009	-21	10.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	122.12	--	0.31	--	0.08	0.24	0.06	--	--	--	0.00900
	1/1/2010	-21	10.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	141.82	--	0.36	--	0.08	0.30	0.06	--	--	--	0.00900
	1/2/2010	-20	10.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	130.00	--	0.33	--	0.09	0.31	0.06	--	--	--	0.00900
	1/3/2010	-20	10.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	181.21	--	0.46	--	0.09	0.35	0.07	--	--	--	0.01000
	1/4/2010	-20	10.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	232.42	--	0.59	--	0.09	0.33	0.08	--	--	--	0.01000
	1/5/2010	-20	10.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	161.52	--	0.41	--	0.10	0.30	0.07	--	--	--	0.01000
	1/5/2010	-20	#N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.10	0.27	0.07	--	--	--	0.01000
Detox/ Rinse Phase	1/5/2010	-20	10.4	--	--	--	--	--	190	84	570	990	35.00	1.00	46.00	--	--	--	27.00	120.00	--	--	--	0.09	0.10	0.15	0.06	--	--	--	0.00550
	1/13/2010	-19	10.0	--	--	--	--	6	100	--	170	1000	30.00	1.00	44.00	--	--	--	69.00	310.00	--	--	--	0.07	0.13	0.56	0.05	--	--	--	--
	1/22/2010	-18	9.2	--	--	--	--	70	34	--	110	1400	39.00	0.50	71.00	--	--	--	390.00	--	--	--	--	*0.05*	*0.17*	*0.45*	0.06	--	--	--	--
	2/1/2010	-16	9.9	--	--	--	--	--	49	6	99	1400	44.00	0.50	60.00	--	--	--	210.00	--	--	--	--	0.05	0.27	0.67	0.06	--	--	--	--
Humidity Cell Phase	2/16/2010	1	7.6	3900	250	4300	--	74	--	--	61	2800	36.00	0.74	15.00	3.90	12.00	65.00	120.00	58.00	0.71	0.24	--	0.03	0.64	0.41	0.14	0.0001	0.0001	0.19	0.00051
	2/23/2010	2	7.9	1900	280	2700	--	90	--	--	74	1300	13.00	1.40	12.00	--	1.90	14.00	14.00	22.00	0.32	0.11	--	--	1.10	0.88	0.05	--	--	0.37	0.00046
	3/2/2010	3	8.1	660	260	990	--	150	--	--	120	330	1.60	2.20	3.30	0.16	0.07	3.00	3.10	1.90	0.12	0.03	--	0.12	1.70	2.00	0.10	--	--	0.48	--
	3/9/2010	4	8.3	510	270	590	--	190	--	--	150	200	0.80	2.40	0.75	--	0.16	3.00	0.72	2.60	0.16	0.04	--	0.76	1.40	2.10	0.07	--	--	0.50	0.00038
	3/16/2010	5	8.2	510	280	720	--	200	--	--	170	180	0.63	2.00	0.60	--	0.14	1.80	--	1.10	0.24	0.02	--	1.10	1.20	1.90	0.07	0.0001	0.0019	0.43	0.00045
	3/23/2010	6	8.2	470	310	740	--	210	--	--	170	160	0.61	1.70	0.49	--	0.17	1.70	0.18	1.00	0.24	0.07	--	2.10	1.20	2.10	0.13	--	--	0.32	0.00033
	3/30/2010	7	8.1	480	270	530	--	200	--	--	160	140	0.75	1.50	0.72	--	0.12	2.20	0.32	1.40	0.18	0.04	--	2.60	1.20	1.90	0.10	--	--	0.26	0.00035
	4/6/2010	8	8.0	510	290	610	--	190	--	--	150	170	1.20	1.40	0.69	--	0.11	2.10	0.36	2.40	0.15	0.07	--	1.80	1.10	1.70	0.07	--	--	0.23	--
	4/13/2010	9	8.2	560	270	690	--	200	--	--	160	230	1.50	1.30	0.41	--	0.14	2.00	0.06	1.30	0.13	0.04	--	1.60	0.94	1.50	0.07	0.0001	0.0070	0.25	0.00008
	4/20/2010	10	8.1	550	250	620	--	190	--	--	150	220	1.20	1.20	0.27	--	0.10	1.30	0.08	1.30	0.02	0.10	--	1.60	0.89	1.40	0.06	--	--	0.16	--
	4/27/2010	11	8.1	540	300	710	--	180	--	--	140	230	0.79	1.20	0.30	--	0.06	1.20	0.21	0.29	0.06	0.02	--	1.70	0.81	1.50	0.06	--	--	0.15	--
	5/4/2010	12	8.1	620	300	780	--	150	--	--	130	280	0.78	0.97	0.22	--	0.36	1.00	0.12	--	0.07	0.03	--	1.20	0.74	1.10	0.06	--	--	0.12	--
	5/11/2010	13	8.0	660	280	740	--	130	--	--	110	370	0.62	0.81	0.09	--	2.90	3.60	0.12	--	0.05	0.02	--	0.36	0.74	0.81	0.06	0.0001	0.0017	0.11	0.00007
	5/18/2010	14	#N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/25/2010	15	8.0	990	260	1300	--	98	--	--	81	580	0.28	0.58	0.34	0.11	6.30	7.50	0.07	--	0.05	--	--	--	0.74	0.51	0.08	--	--	--	--
	6/1/2010	16	#N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/8/2010	17	7.8	1300	280	1700	--	77	--	--	63	750	0.18	0.05	0.19	0.13	11.00	12.00	0.27	--	0.06	0.03	--	0.03	0.74	0.43	0.10	0.0001	0.0003	0.30	0.00004
	6/15/2010	18	7.7	1100	280	1700	--	74	--	--	61	720	0.13	0.10	0.12	0.19	29.00	29.00	0.33	--	0.06	0.04	--	--	0.61	0.38	0.10	--	--	--	--
	6/22/2010	19	#N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/29/2010	20	7.6	1300	320	2000	--	78	--	--	64	670	0.29	1.00	0.26	1.20	96.00	69.00	0.09	--	0.06	0.03	--	--	0.65	0.29	0.13	--	--	--	--
	7/9/2010	21	7.8	1700	270	2200	--	150	--	--	120	780	0.50	0.64	0.25	2.00	130.00	130.00	0.48	--	0.06	0.03	--	--	0.58	0.25	0.17	--	--	--	--
	7/20/2010	22	#N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/27/2010	23	7.6	1500	270	2000	--	64	--	--	53	870	0.21	1.60	0.33	13.00	53.00	68.00	0.39	--	0.05	0.03	--	--	0.57	0.25	0.15	--	--	--	--
	8/3/2010	24	#N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/10/2010	25	8.0	980	300	1400	--	53	--	--	43	600	0.13	0.37	0.25	15.00	0.32	17.00	0.19	--	0.02	--	--	--	0.46	0.28	0.09	--	--	--	--
	8/17/2010	26	#N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/24/2010	27	7.9	910	340	1200	--	--	--	--	48	600	0.12	0.38	0.18	4.70	0.34	5.80	0.10	--	0.02	0.02	--	--	0.52	0.32	0.09	--	--	--	--
	8/31/2010	28	#N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/7/2010	29	#N/A	--	--	--	--	--	--	--	--	460	0.11	0.44	--	--	--	--	--	--	--	--	--	--	0.46	0.36	--	--	--	--	--
	9/14/2010	30	#N/A	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

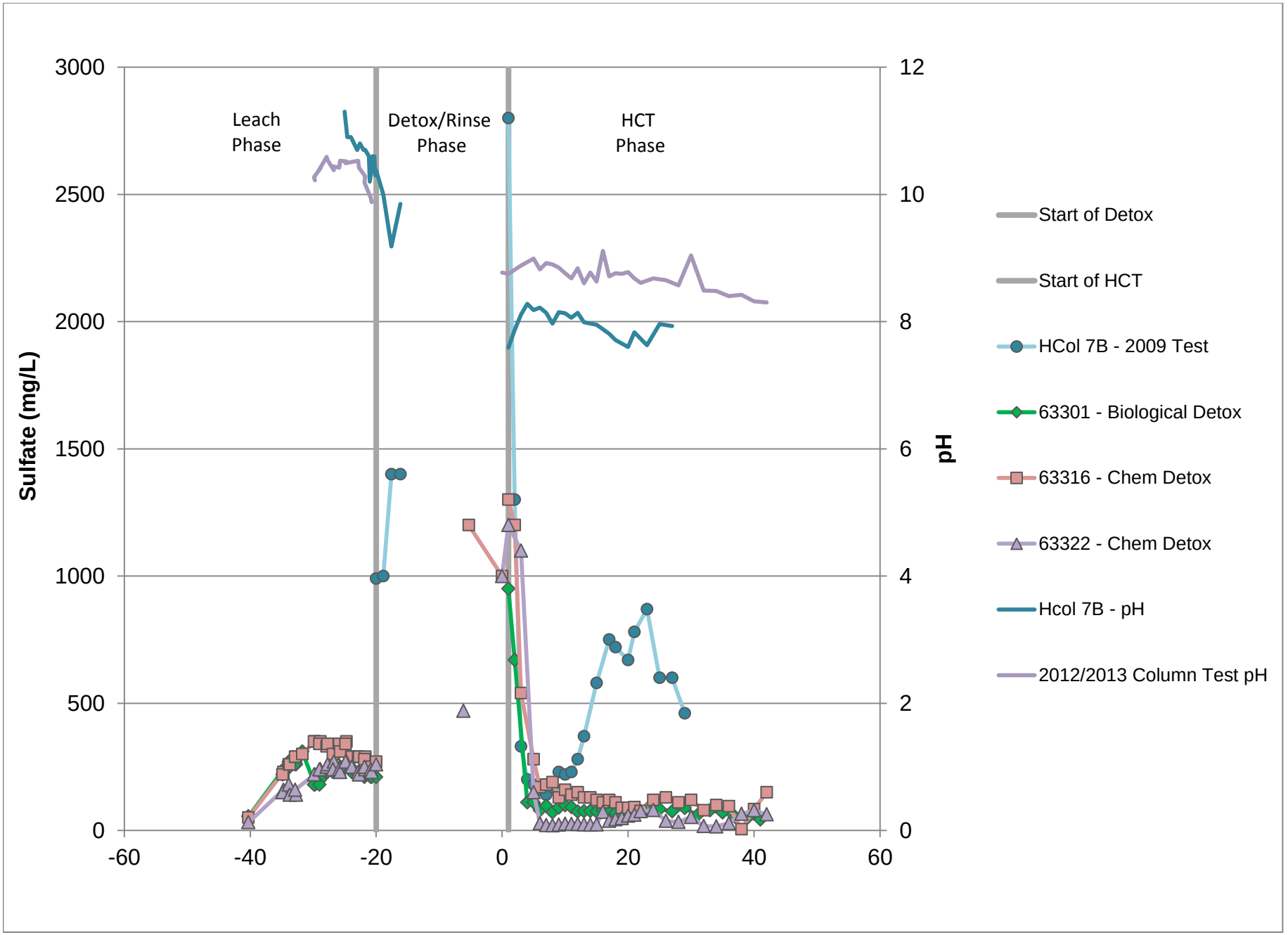
Column Terminated

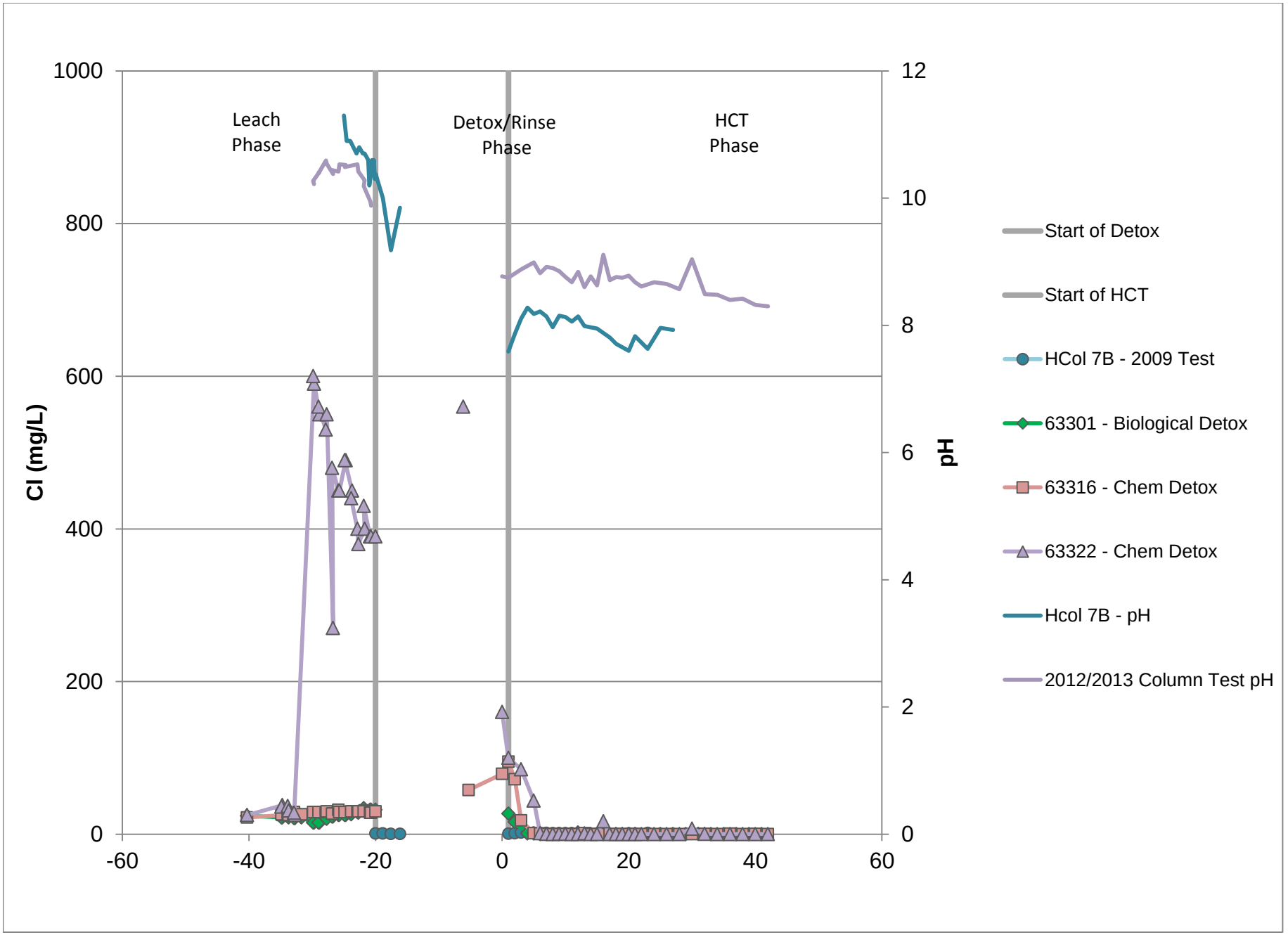
Column: Hcol 7B

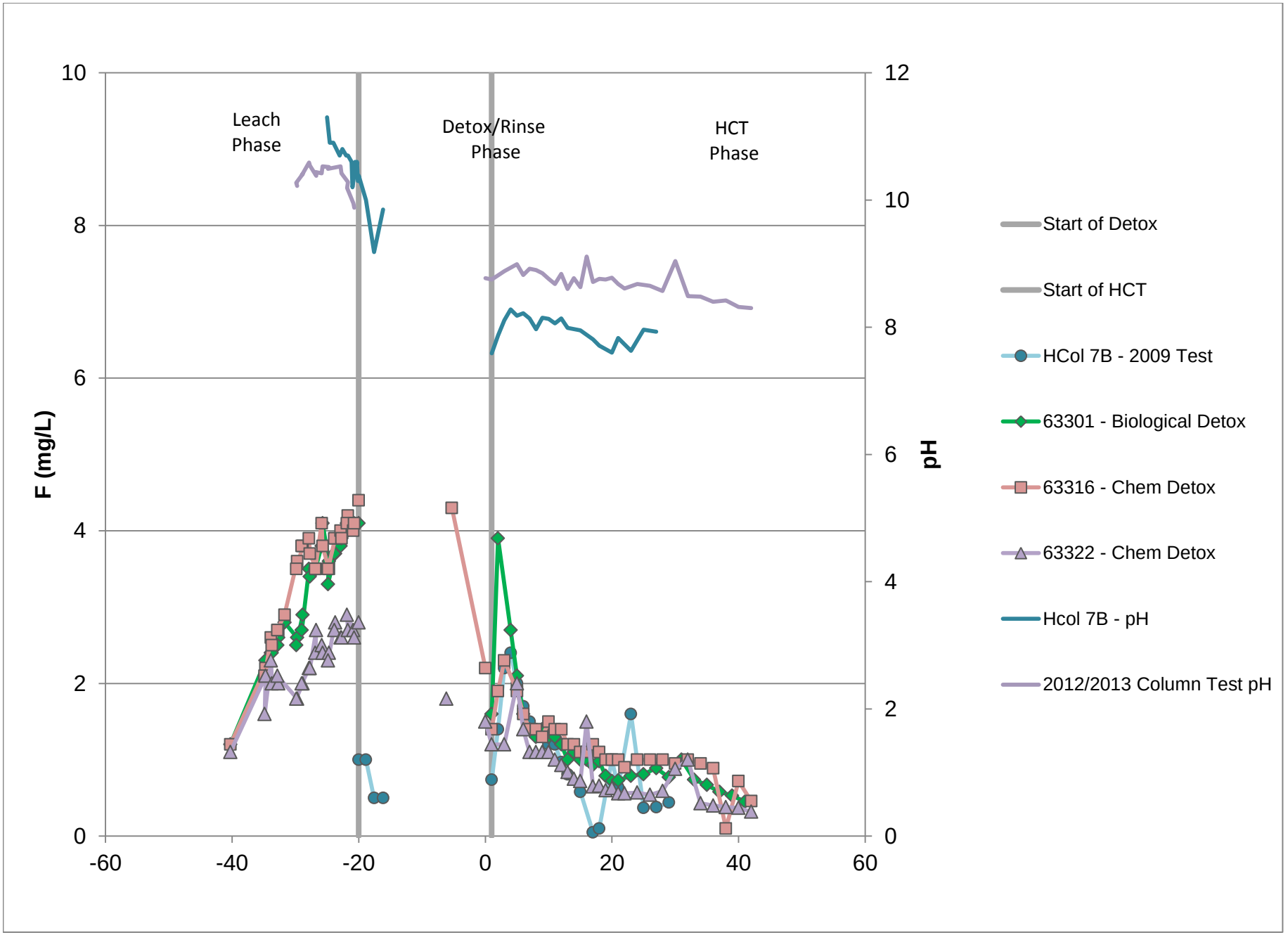
Test Phase	Sampling Date	Calcium mg/L	Chromium mg/L	Cobalt mg/L	Copper mg/L	Gallium mg/L	Iron mg/L	Lanthanum mg/L	Lead mg/L	Lithium mg/L	Magnesium mg/L	Manganese mg/L	Mercury mg/L	Molybdenum mg/L	Nickel mg/L	Phosphorous mg/L	Potassium mg/L	Scandium mg/L	Selenium mg/L	Silicon mg/L	Silver mg/L	Sodium mg/L	Strontium mg/L	Thallium mg/L	Tin mg/L	Titanium mg/L	Uranium mg/L	Vanadium mg/L	Zinc mg/L
Leach Phase	12/1/2009	260	0.0350	0.90	8.800	--	1.70	--	0.017	--	--	0.010	0.0023	0.22	0.100	--	26	--	0.090	--	0.01700	400	8.4	--	--	--	--	0.05	8.80
	12/4/2009	220	0.0300	0.86	7.900	--	1.70	--	0.009	--	--	--	0.0012	0.21	0.062	--	25	--	0.080	--	0.01000	390	6.7	--	--	--	--	0.06	6.70
	12/8/2009	200	0.0270	0.90	9.000	--	1.80	--	0.007	--	--	0.010	0.0010	0.23	0.056	--	23	--	0.080	--	0.00900	380	6.1	--	--	--	--	0.08	7.80
	12/15/2009	240	0.0200	0.83	6.600	--	1.90	--	0.006	--	--	--	0.0014	0.22	0.053	--	27	--	0.060	--	0.00600	520	3.2	--	--	--	--	0.11	5.70
	12/18/2009	220	0.0130	0.30	5.300	--	1.60	--	0.008	--	--	--	0.0012	0.21	0.048	--	27	--	0.060	--	--	570	6.1	--	--	--	--	0.12	6.00
	12/22/2009	180	0.0120	0.69	7.500	--	2.10	--	0.005	--	--	--	--	0.22	0.033	--	26	--	0.060	--	--	640	5.5	--	--	--	--	0.10	6.20
	12/24/2009	180	0.0140	0.65	7.700	--	1.90	--	0.004	--	--	--	0.0008	0.22	0.040	--	25	--	0.060	--	--	700	5.6	--	--	--	--	0.11	6.20
	12/28/2009	140	0.0140	0.85	8.600	--	2.20	--	--	--	--	0.008	0.0003	0.25	0.037	--	25	--	0.070	--	--	730	5.2	--	--	--	--	0.12	6.70
	12/29/2009	190	0.0130	0.73	9.000	--	2.30	--	--	--	--	--	0.0006	0.24	0.068	--	24	--	0.074	--	0.00400	650	5.2	--	--	--	--	0.11	7.50
	12/30/2009	200	0.0130	0.77	9.100	--	2.40	--	0.010	--	--	--	0.0008	0.24	0.058	--	25	--	0.076	--	--	660	5.4	--	--	--	--	0.10	7.70
	12/31/2009	170	0.0100	0.74	9.200	--	2.20	--	--	--	--	0.019	0.0003	0.23	0.064	--	25	--	0.070	--	--	610	4.9	--	--	--	--	0.11	7.40
	1/1/2010	170	0.0100	0.82	9.300	--	2.20	--	0.008	--	--	--	0.0005	0.24	0.079	--	25	--	0.073	--	0.00600	630	5.1	--	--	--	--	0.11	7.80
	1/2/2010	170	0.0090	0.72	9.300	--	2.20	--	0.004	--	--	--	0.0006	0.24	0.080	--	26	--	0.076	--	0.00500	650	5.1	--	--	--	--	0.11	7.70
	1/3/2010	190	0.0090	0.76	9.300	--	2.20	--	--	--	--	0.017	0.0010	0.25	0.091	--	28	--	0.078	--	0.00600	690	5.5	--	--	--	--	0.11	7.80
	1/4/2010	210	0.0080	0.81	9.800	--	2.40	--	--	--	--	--	0.0013	0.25	0.100	--	31	--	0.079	--	0.00700	770	6.2	--	--	--	--	0.10	8.00
	1/5/2010	200	0.0080	0.74	8.300	--	2.60	--	--	--	--	--	0.0009	0.25	0.100	--	32	--	0.070	--	0.00700	760	6.0	--	--	--	--	0.10	7.80
	1/5/2010	200	0.0080	0.73	8.300	--	2.50	--	0.006	--	--	--	0.0011	0.25	0.100	--	32	--	0.080	--	0.00700	780	6.1	--	--	--	--	0.10	7.80
Detox/ Rinse Phase	1/5/2010	180	0.0140	0.86	9.100	--	2.60	--	--	--	--	--	0.0860	0.22	0.095	--	34	--	0.068	--	0.00850	780	6.1	--	--	--	--	0.09	8.20
	1/13/2010	150	0.0130	0.81	0.550	--	0.12	--	--	--	--	--	0.0760	0.19	0.019	--	25	--	0.055	--	--	640	4.3	--	--	--	--	0.10	--
	1/22/2010	200	0.0057	1.00	0.110	--	0.06	--	--	--	--	--	0.0590	0.25	--	--	30	--	0.070	--	--	780	6.1	--	--	--	--	0.07	--
	2/1/2010	170	0.0050	0.96	0.080	--	0.03	--	--	--	--	--	0.0790	0.22	--	--	27	--	0.069	--	--	710	5.1	--	--	--	--	0.06	0.02
Humidity Cell Phase	2/16/2010	530	0.0030	0.89	0.035	--	0.19	--	0.011	0.02	9.40	0.024	-0.1000	0.20	0.011	0.06	36	--	0.091	8	0.00247	720	12.0	0.0002	0.0001	0.005	0.09	0.01	0.20
	2/23/2010	170	--	0.31	0.010	--	0.06	--	0.006	--	3.70	0.009	--	0.10	--	--	22	--	0.041	10	--	430	3.9	--	--	--	0.11	--	0.14
	3/2/2010	34	--	0.08	0.008	--	0.08	--	0.011	--	0.78	0.005	--	0.09	--	--	10	--	0.025	11	--	190	0.8	--	--	--	0.09	0.02	0.04
	3/9/2010	20	--	0.05	0.007	--	0.24	--	0.028	--	--	0.008	--	0.11	--	--	7	--	0.022	13	0.03200	150	0.4	--	--	--	--	0.03	0.03
	3/16/2010	18	0.0006	0.04	0.008	--	0.33	--	0.044	0.01	0.50	0.010	-0.0500	0.09	0.002	0.02	7	--	0.016	16	0.01600	140	0.4	0.0001	0.0003	0.013	0.22	0.02	0.03
	3/23/2010	20	--	0.04	0.013	--	0.60	--	0.095	--	0.55	0.019	--	0.07	--	--	7	--	0.017	19	--	130	0.4	--	--	--	0.31	0.03	0.04
	3/30/2010	23	--	0.04	0.008	--	0.74	--	0.120	--	0.63	0.026	--	0.07	--	--	8	--	0.014	21	0.00750	130	0.5	--	--	--	0.30	0.03	0.03
	4/6/2010	21	--	0.04	0.009	--	0.54	--	0.076	--	0.63	0.018	--	0.05	--	--	8	--	0.013	20	0.01400	130	0.5	--	--	--	0.32	0.03	0.04
	4/13/2010	25	0.0005	0.05	0.006	--	0.44	--	0.066	0.01	0.86	0.015	-0.0500	0.06	0.002	0.04	9	--	0.012	19	0.00289	150	0.5	0.0001	0.0004	0.014	0.37	0.03	0.02
	4/20/2010	24	--	0.04	0.007	--	0.46	--	0.061	--	0.81	0.015	--	0.04	--	--	8	--	0.010	17	--	140	0.5	--	--	--	--	0.02	0.02
	4/27/2010	27	--	0.03	0.007	--	0.52	--	0.071	--	0.86	0.015	--	0.04	--	--	8	--	0.009	18	--	140	0.5	--	--	--	0.25	0.02	0.04
	5/4/2010	33	--	0.03	0.006	--	0.32	--	0.051	--	1.20	0.011	--	0.04	--	--	9	--	0.010	16	--	160	0.8	--	--	--	--	0.02	0.02
	5/11/2010	44	0.0005	0.02	0.006	--	0.14	--	0.029	0.01	1.70	0.012	-0.0500	0.04	0.001	0.03	10	--	0.006	12	0.00067	180	1.0	0.0002	0.0004	0.005	0.24	0.01	0.01
	5/18/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/25/2010	76	--	0.01	0.008	--	0.03	--	0.009	--	3.10	--	--	0.03	--	--	14	--	0.006	12	--	210	1.8	--	--	--	0.15	0.01	-0.01
	6/1/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/8/2010	120	0.0005	0.01	0.006	--	0.03	--	0.010	0.02	4.50	0.011	-0.0500	0.04	0.002	0.02	17	--	0.005	12	0.00004	250	2.8	0.0001	0.0002	0.003	0.10	0.02	0.01
	6/15/2010	120	--	0.01	0.007	--	--	--	0.008	--	4.40	--	--	0.03	--	--	16	--	0.004	10	--	220	2.8	--	--	--	0.09	0.01	0.02
	6/22/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/29/2010	180	--	0.01	0.005	--	0.03	--	0.010	--	6.70	--	--	0.04	--	--	21	--	0.004	12	--	230	4.1	--	--	--	0.06	0.01	0.03
	7/9/2010	260	--	0.02	0.006	--	0.04	--	0.013	--	11.00	--	--	0.02	--	--	26	--	0.005	14	--	220	6.3	--	--	--	0.32	0.02	0.02
	7/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/27/2010	300	--	0.02	0.005	--	0.02	--	0.007	--	13.00	--	--	0.03	--	--	28	--	0.005	15	--	120	6.9	--	--	--	0.07	--	0.04
	8/3/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/10/2010	200	--	0.01	0.004	--	--	--	0.015	--	7.80	--	--	0.02	--	--	19	--	0.004	12	--	50	4.0	--	--	--	0.04	0.02	0.02
	8/17/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/24/2010	200	--	0.01	0.003	--	--	--	0.013	--	7.90	--	--	0.04	--	--	20	--	0.004	13	--	47	3.9	--	--	--	0.04	0.02	0.04
	8/31/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/7/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.05	--	--
	9/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

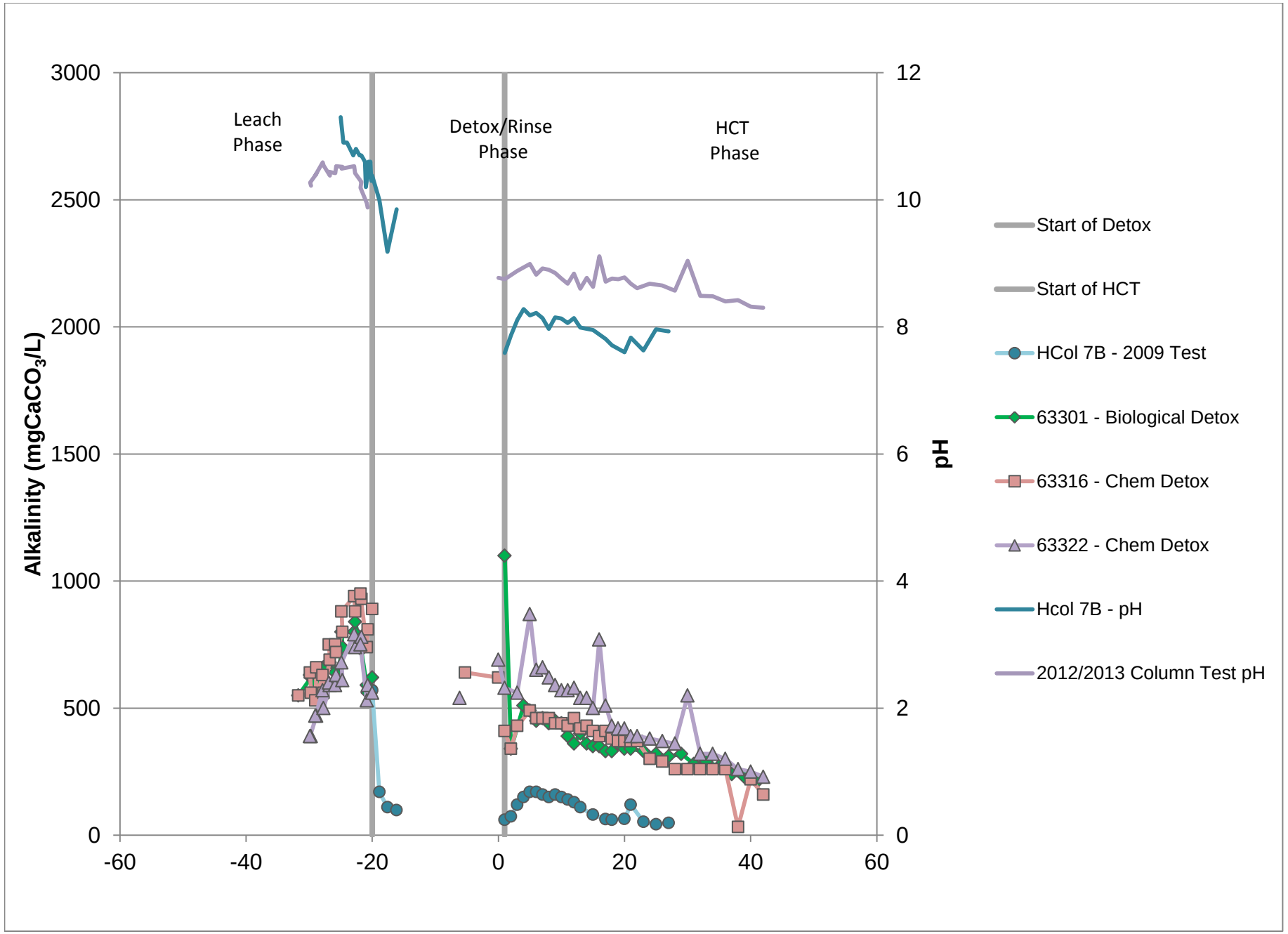
Column Terminated

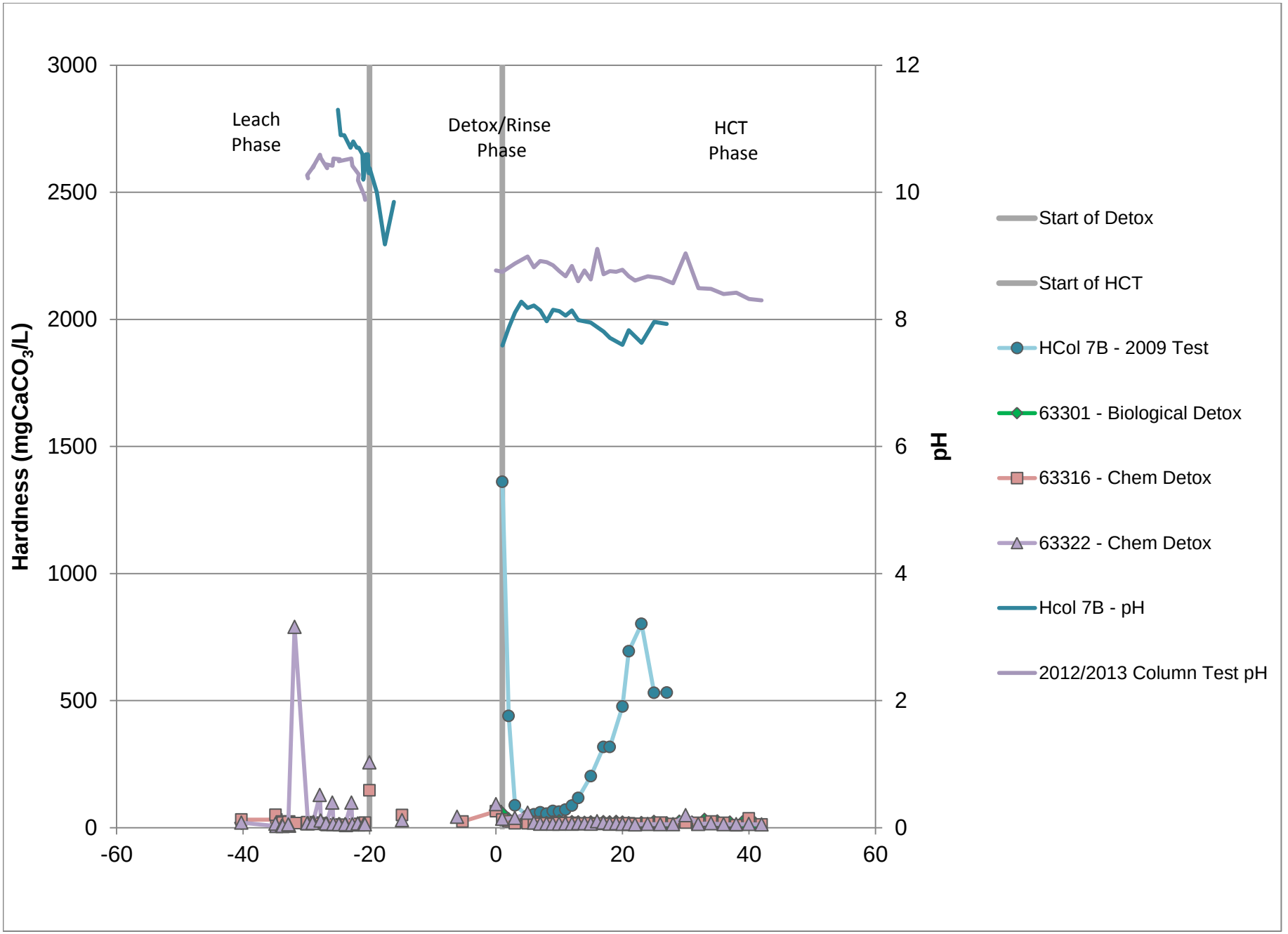
Appendix I2: Metallurgical Column Concentrations Charts

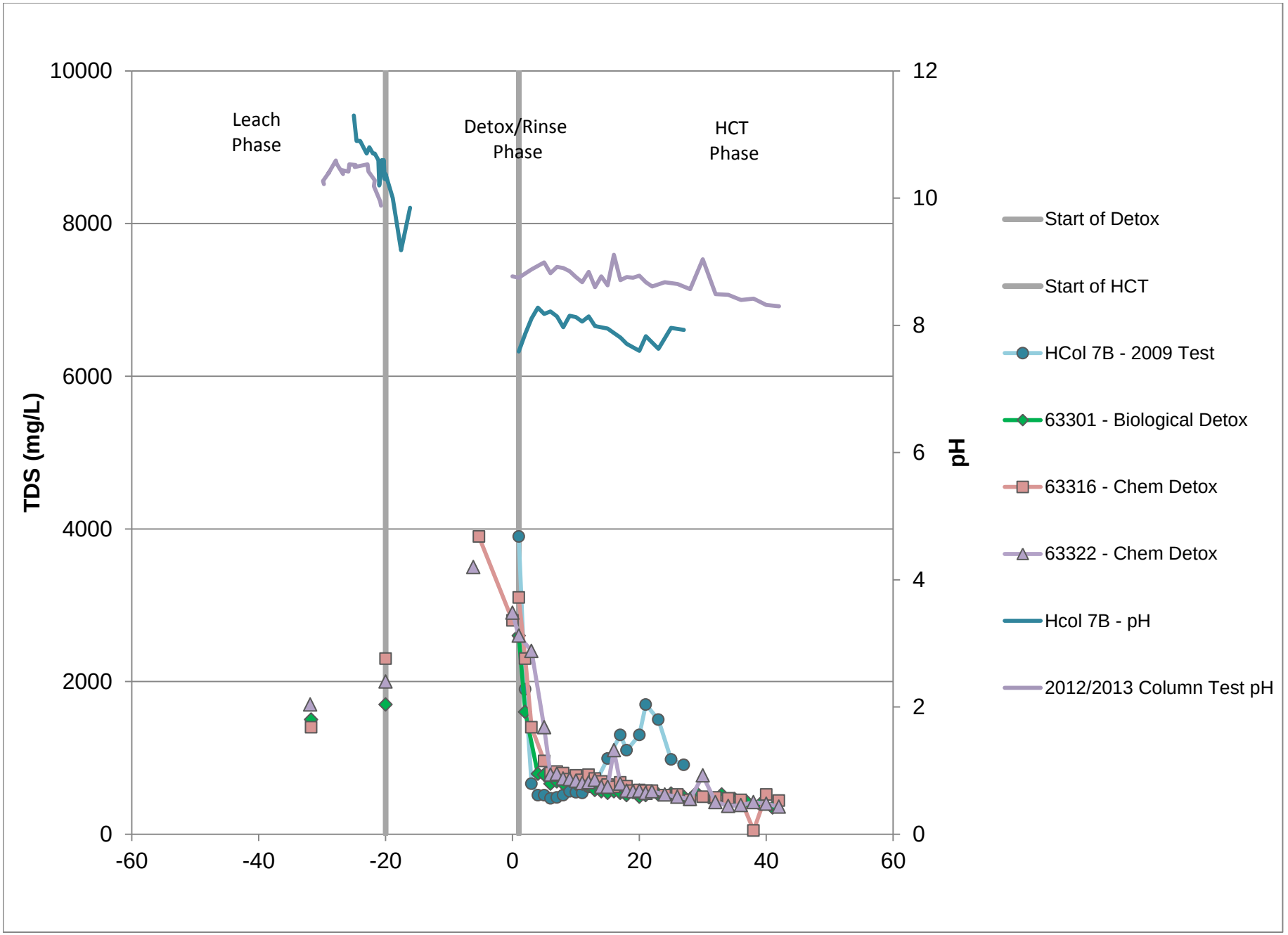

Leach Phase
Detox/Rinse Phase
HCT Phase
Sulfate (mg/L)
pH
3000
2500
2000
1500
1000
500
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

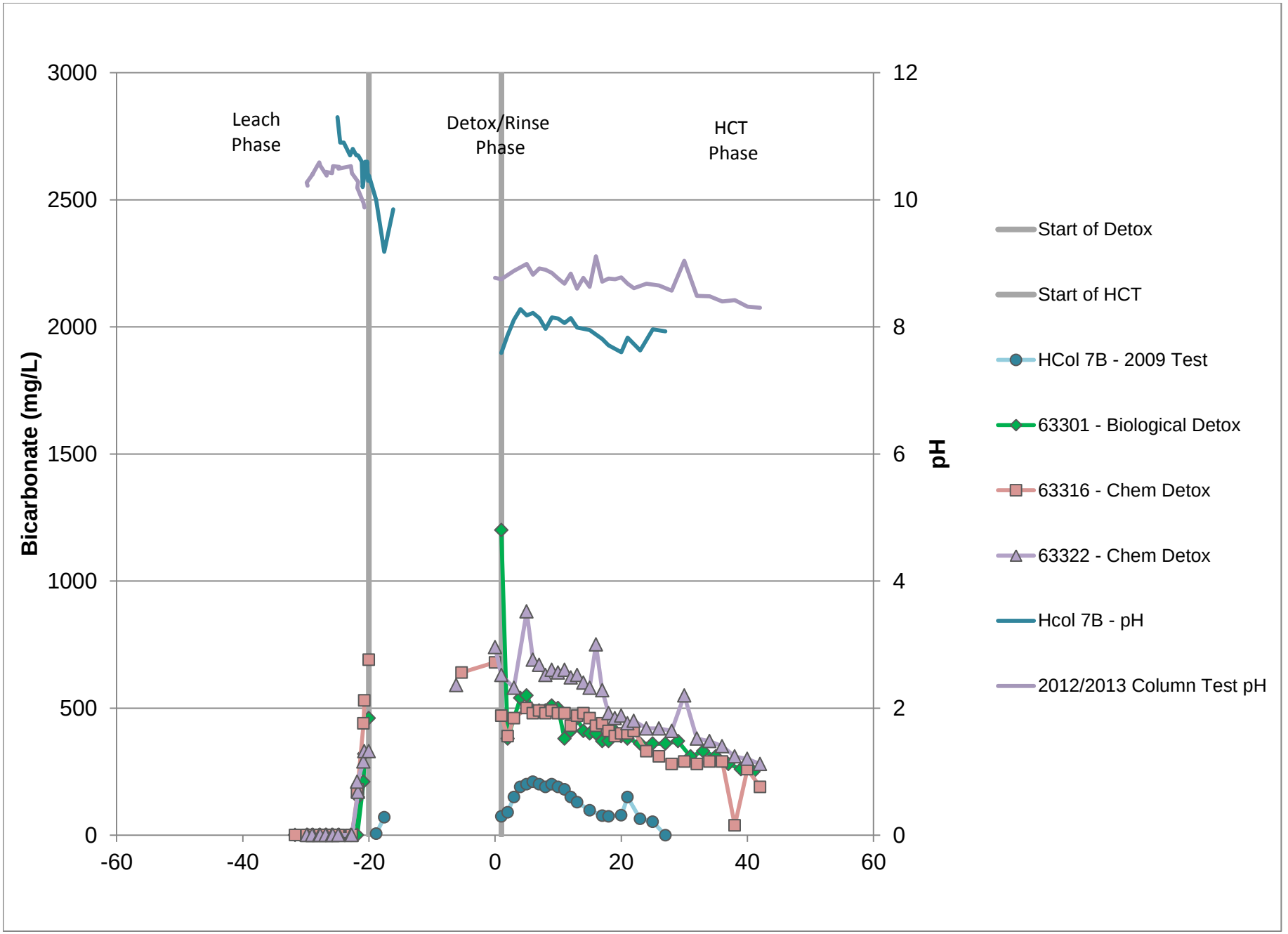

Leach Phase
Detox/Rinse Phase
HCT Phase
Cl (mg/L)
pH
1000
800
600
400
200
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

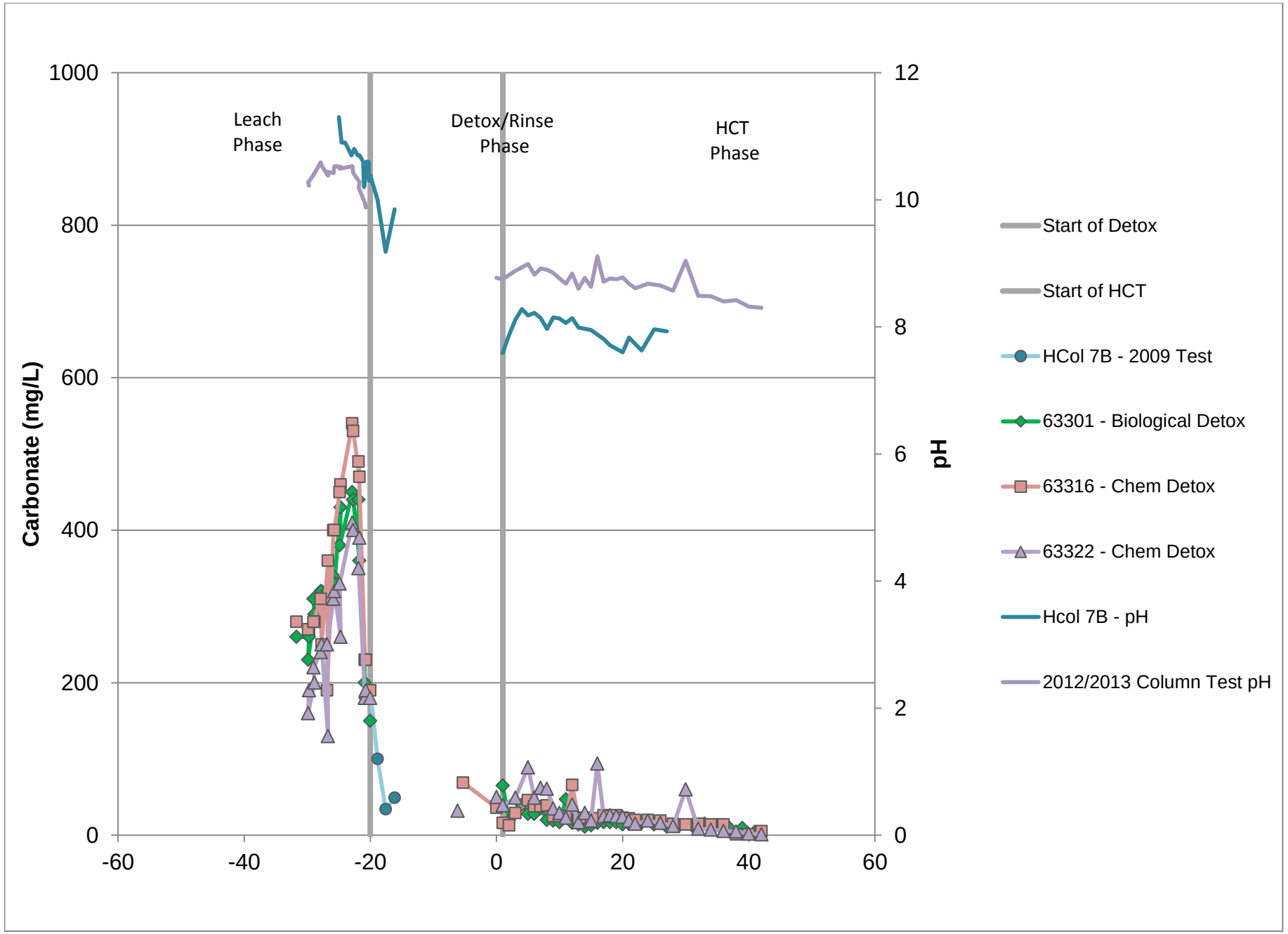

Leach Phase
Detox/Rinse Phase
HCT Phase
F (mg/L)
pH
10
8
6
4
2
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

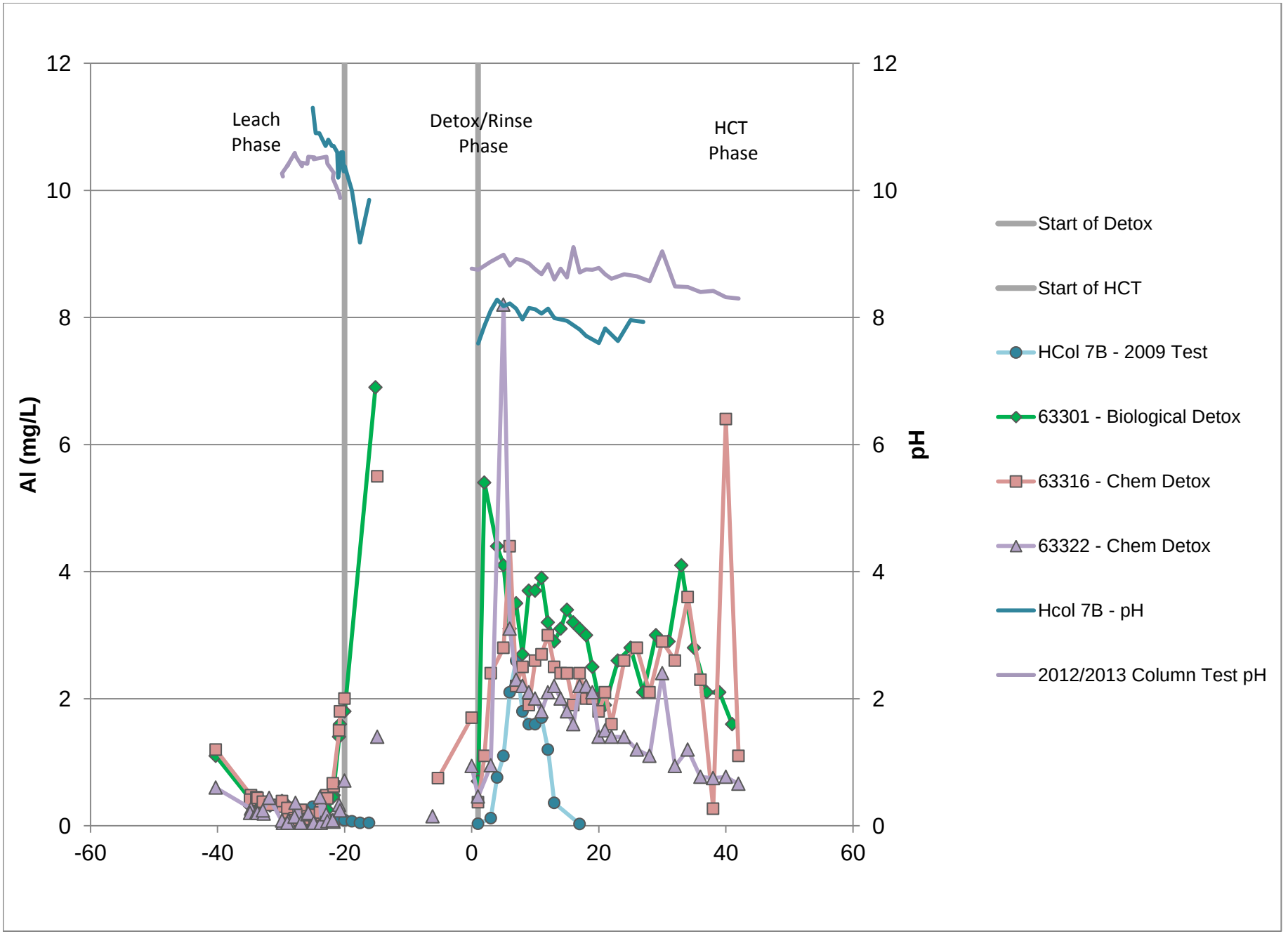

Leach Phase
Detox/Rinse Phase
HCT Phase
Alkalinity (mgCaCO3/L)
pH
3000
2500
2000
1500
1000
500
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

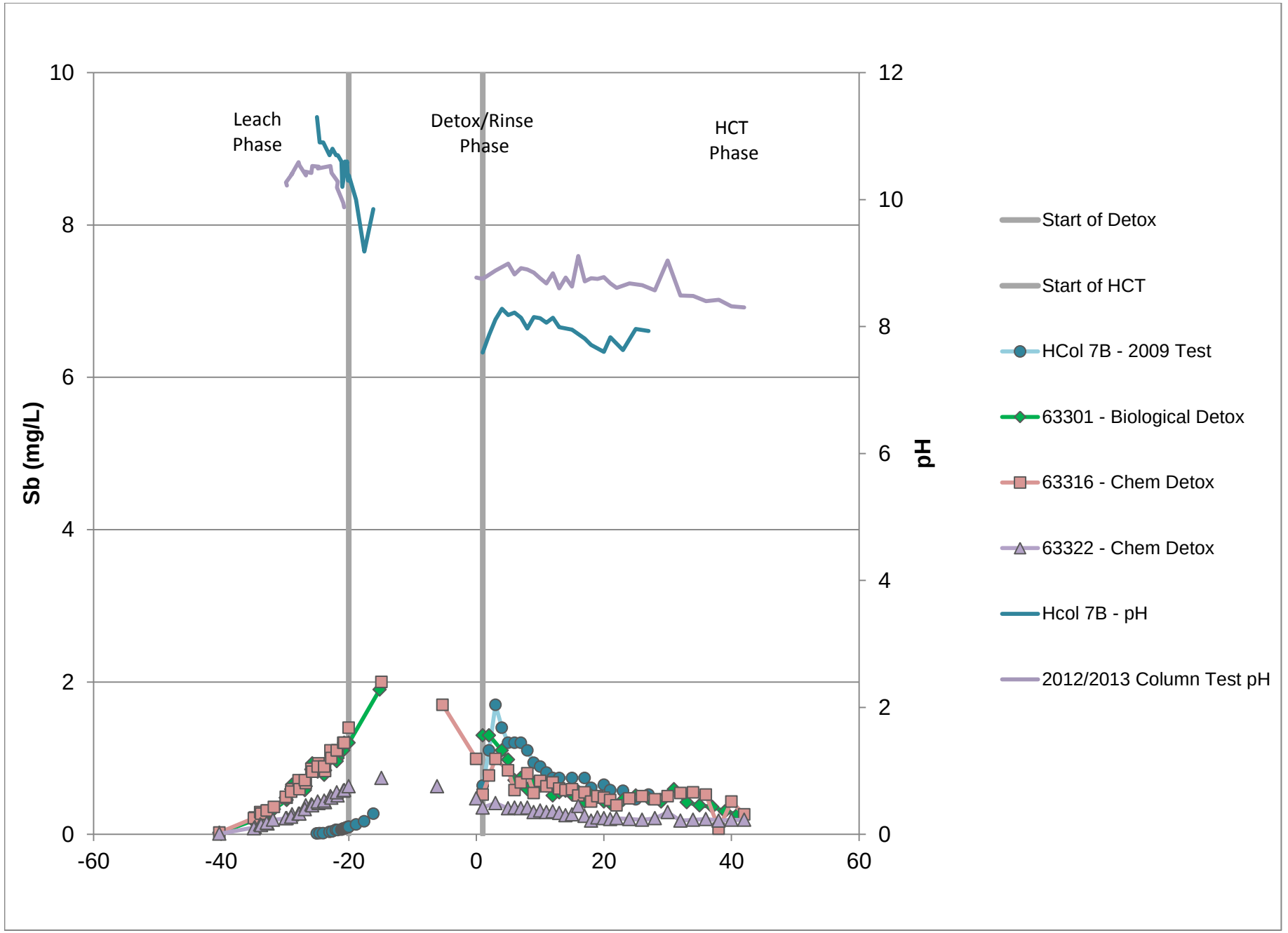

Leach Phase
Detox/Rinse Phase
HCT Phase
Hardness (mgCaCO3/L)
pH
3000
2500
2000
1500
1000
500
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

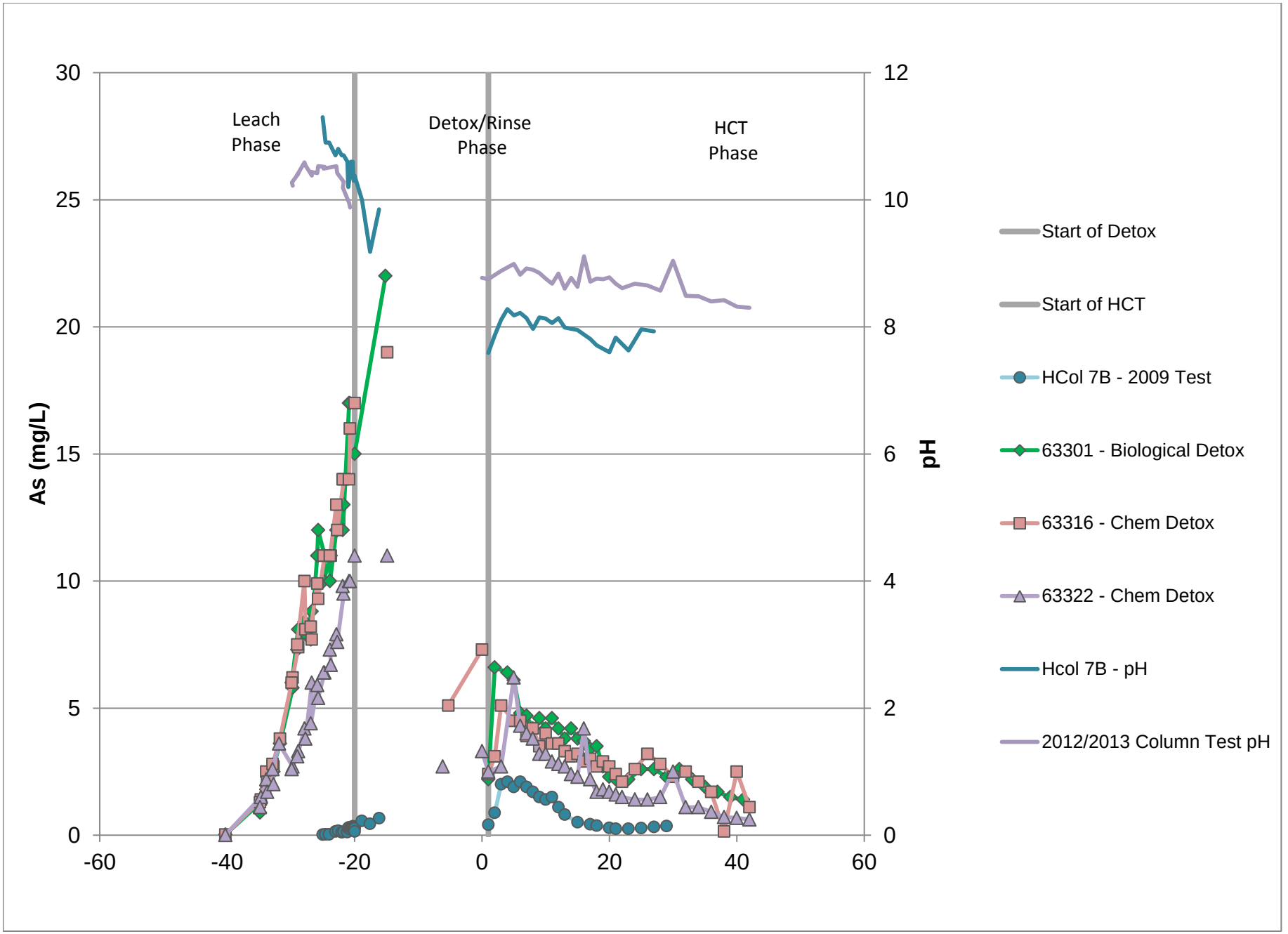

Leach Phase
Detox/Rinse Phase
HCT Phase
TDS (mg/L)
pH
10000
8000
6000
4000
2000
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

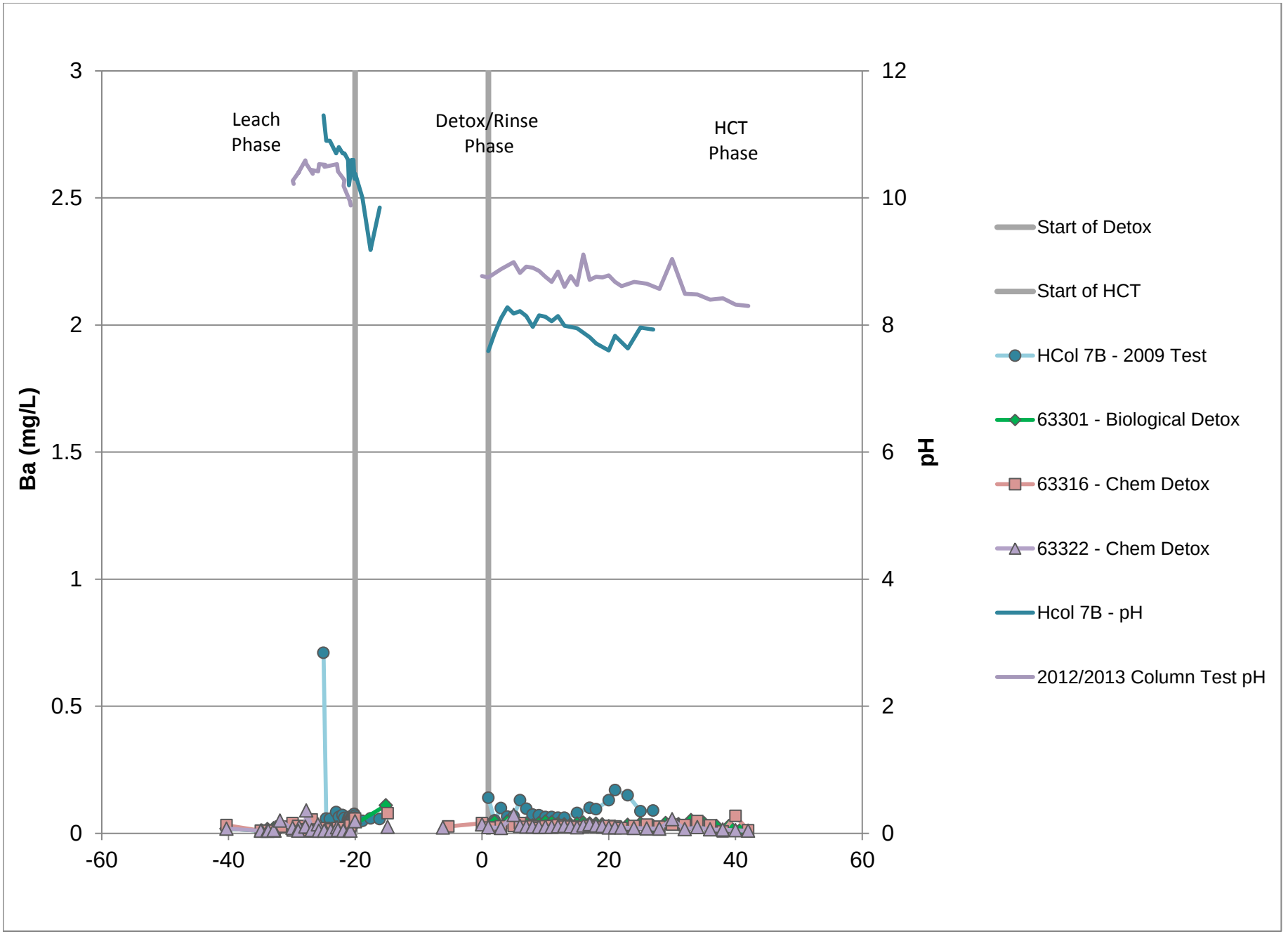

Leach Phase
Detox/Rinse Phase
HCT Phase
Bicarbonate (mg/L)
pH
3000
2500
2000
1500
1000
500
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

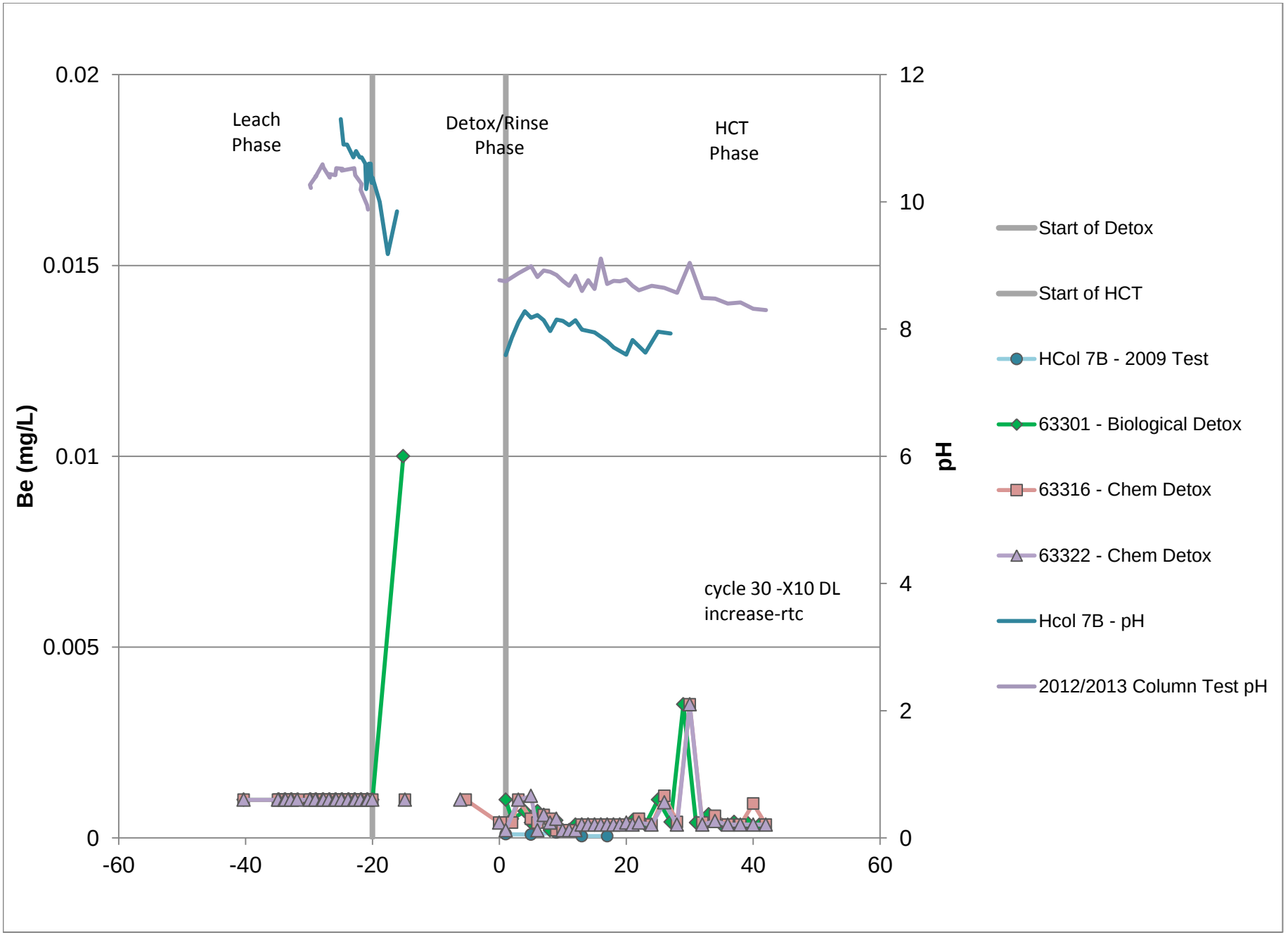

Leach Phase
Detox/Rinse Phase
HCT Phase
Carbonate (mg/L)
pH
1000
800
600
400
200
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

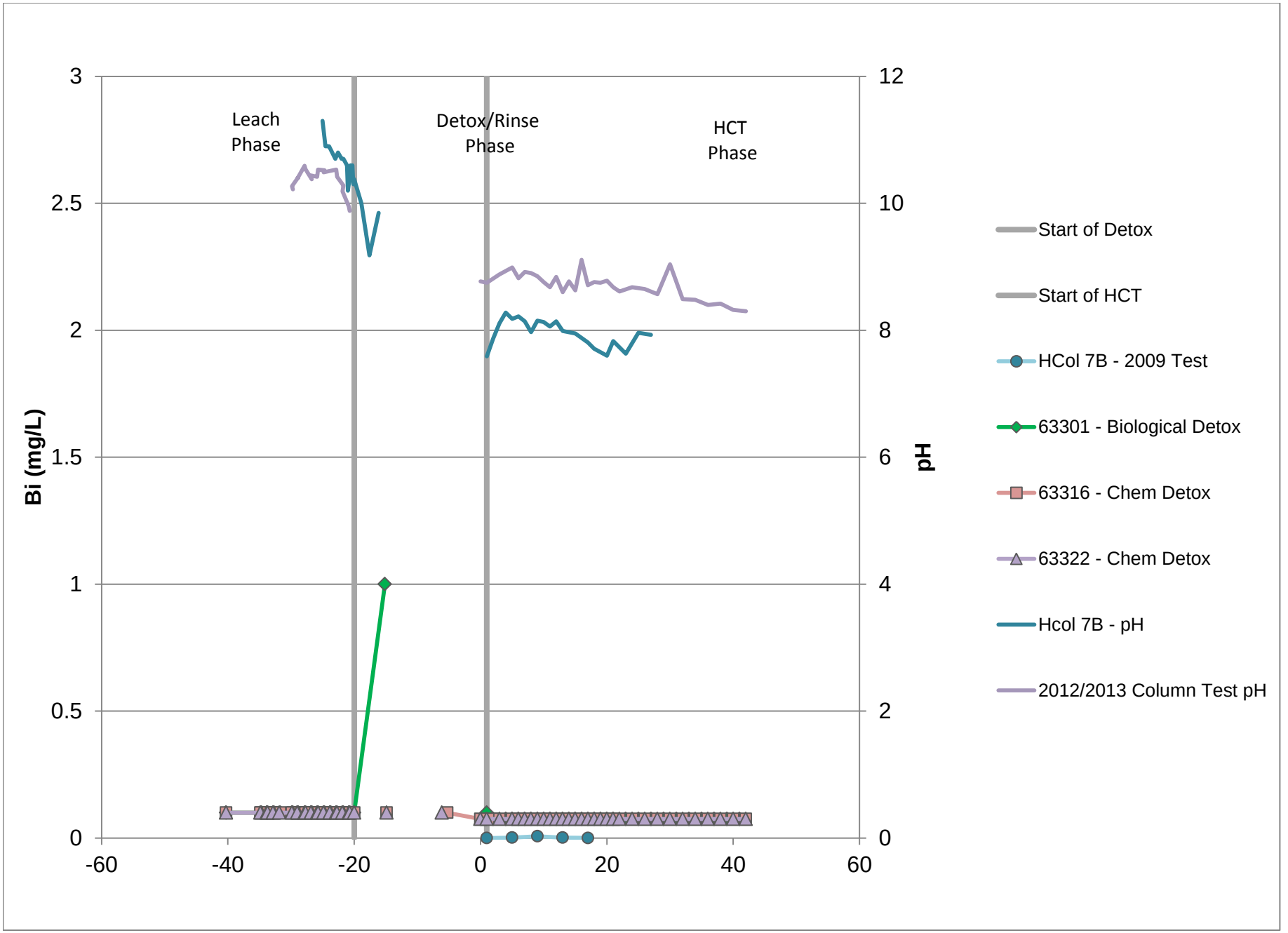

Leach Phase
Detox/Rinse Phase
HCT Phase
Al (mg/L)
pH
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

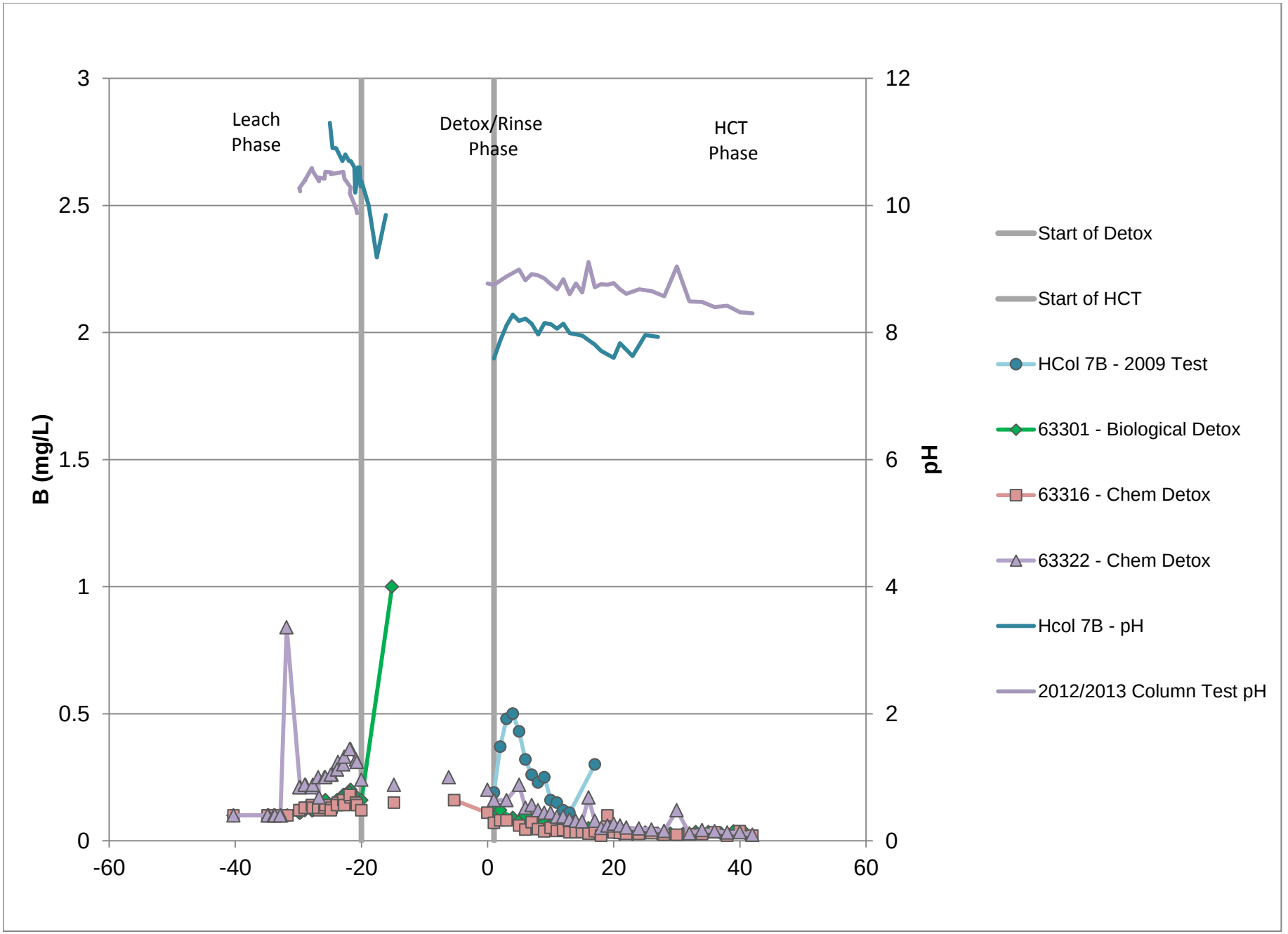

Leach Phase
Detox/Rinse Phase
HCT Phase
Sb (mg/L)
pH
10
8
6
4
2
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

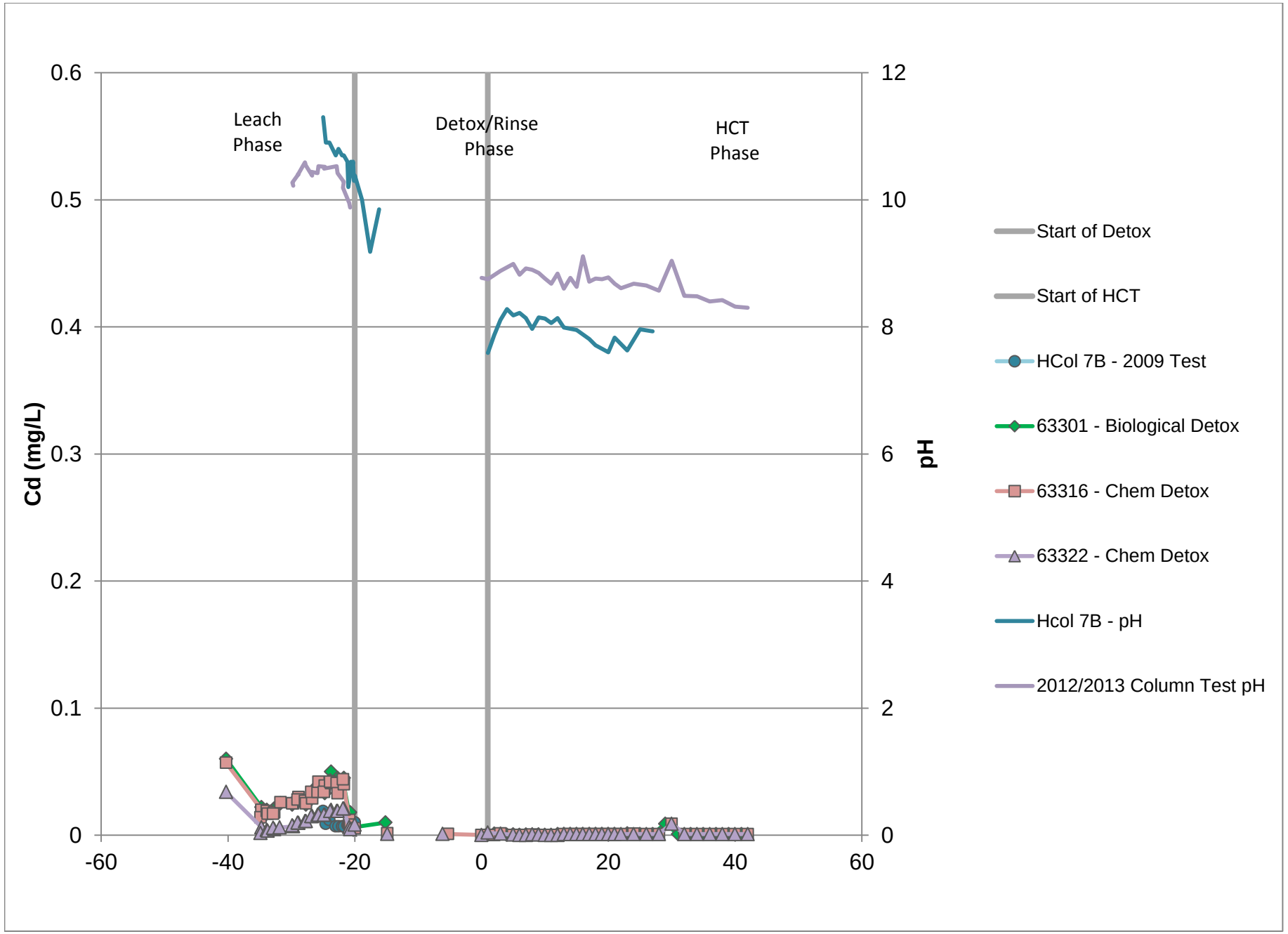

Leach Phase
Detox/Rinse Phase
HCT Phase
As (mg/L)
pH
30
25
20
15
10
5
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

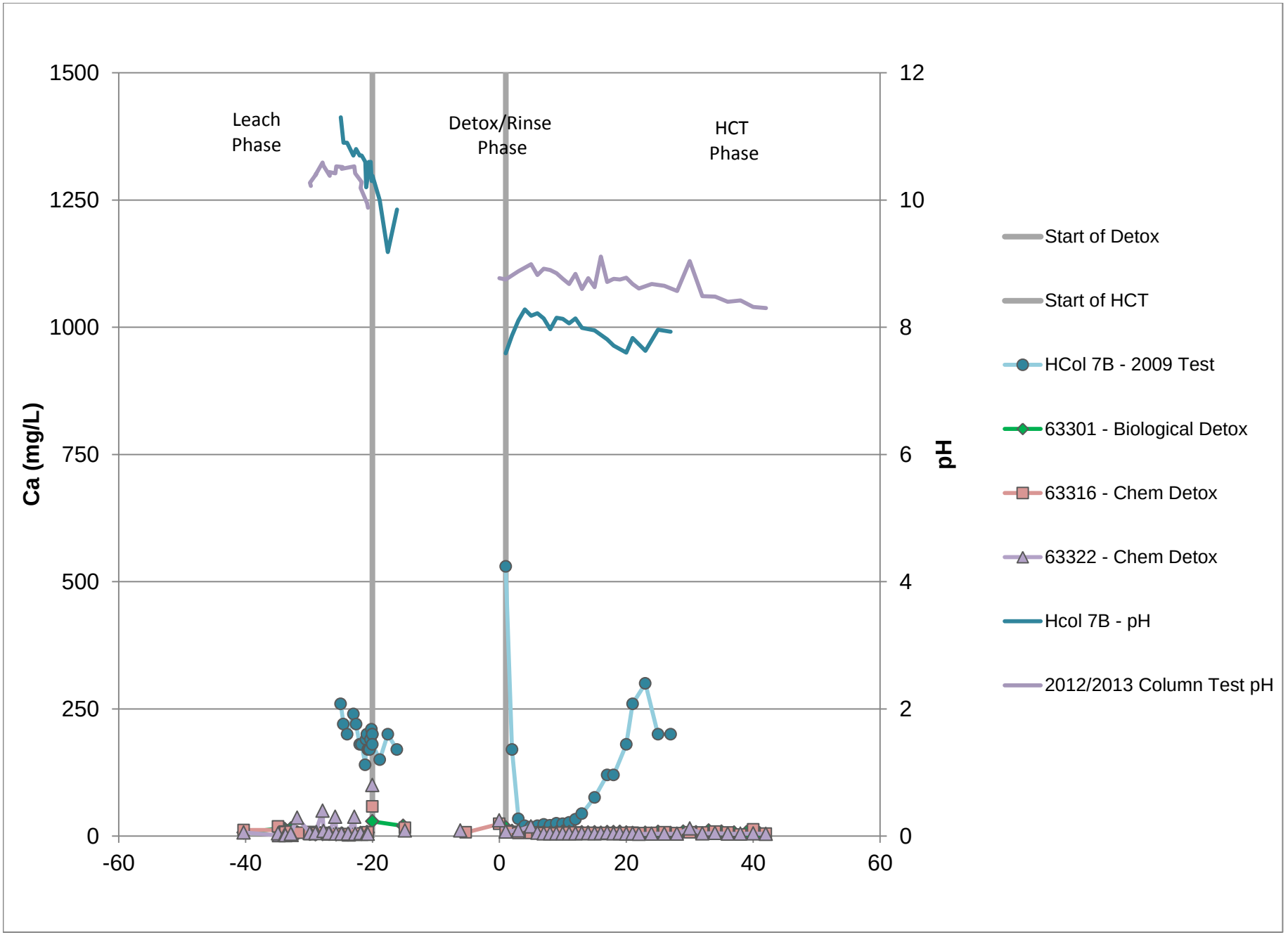

Leach Phase
Detox/Rinse Phase
HCT Phase
Ba (mg/L)
pH
3
2.5
2
1.5
1
0.5
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

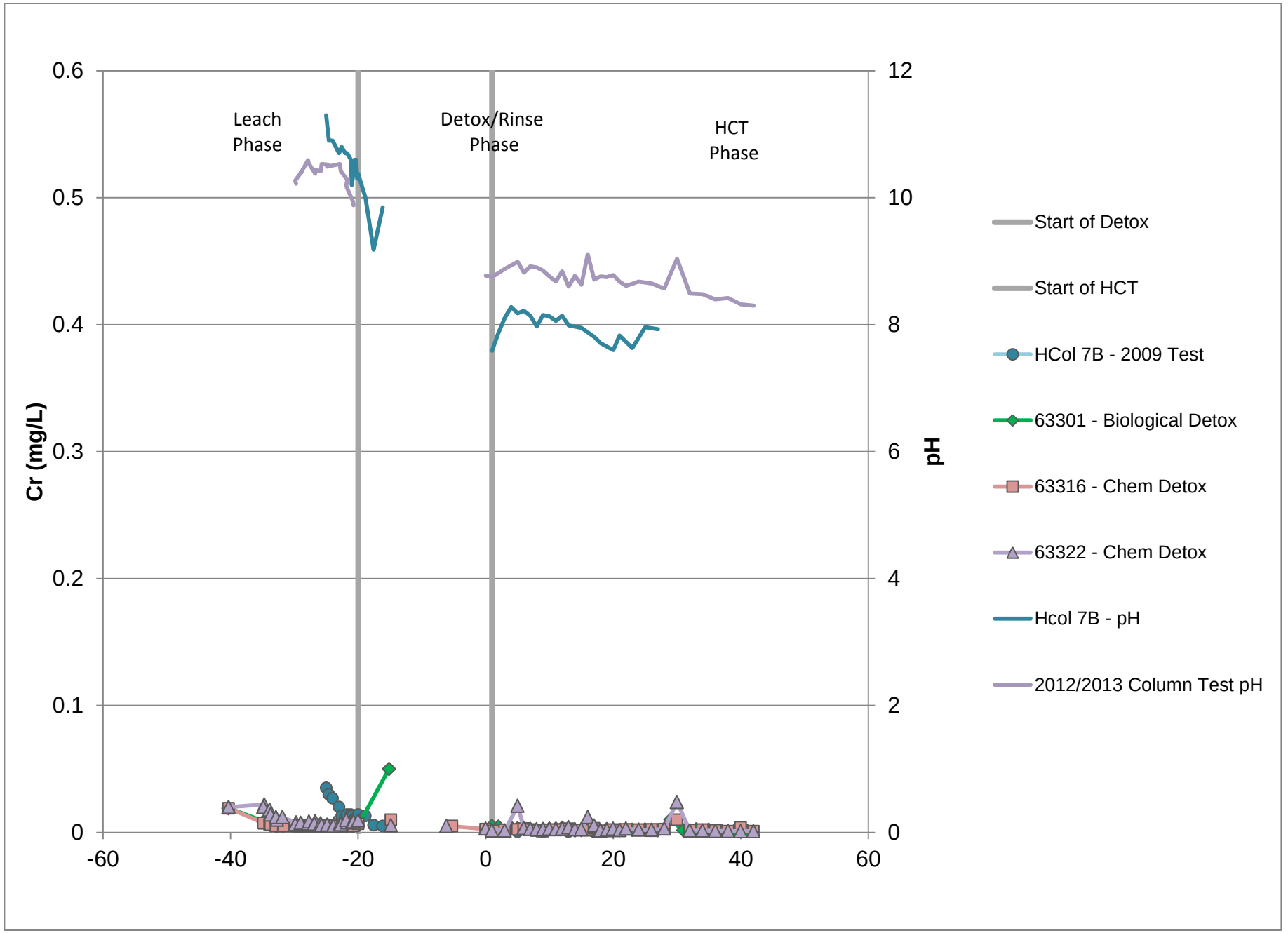

Leach Phase
Detox/Rinse Phase
HCT Phase
cycle 30 -X10 DL increase-rtc
Be (mg/L)
pH
0.02
0.015
0.01
0.005
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

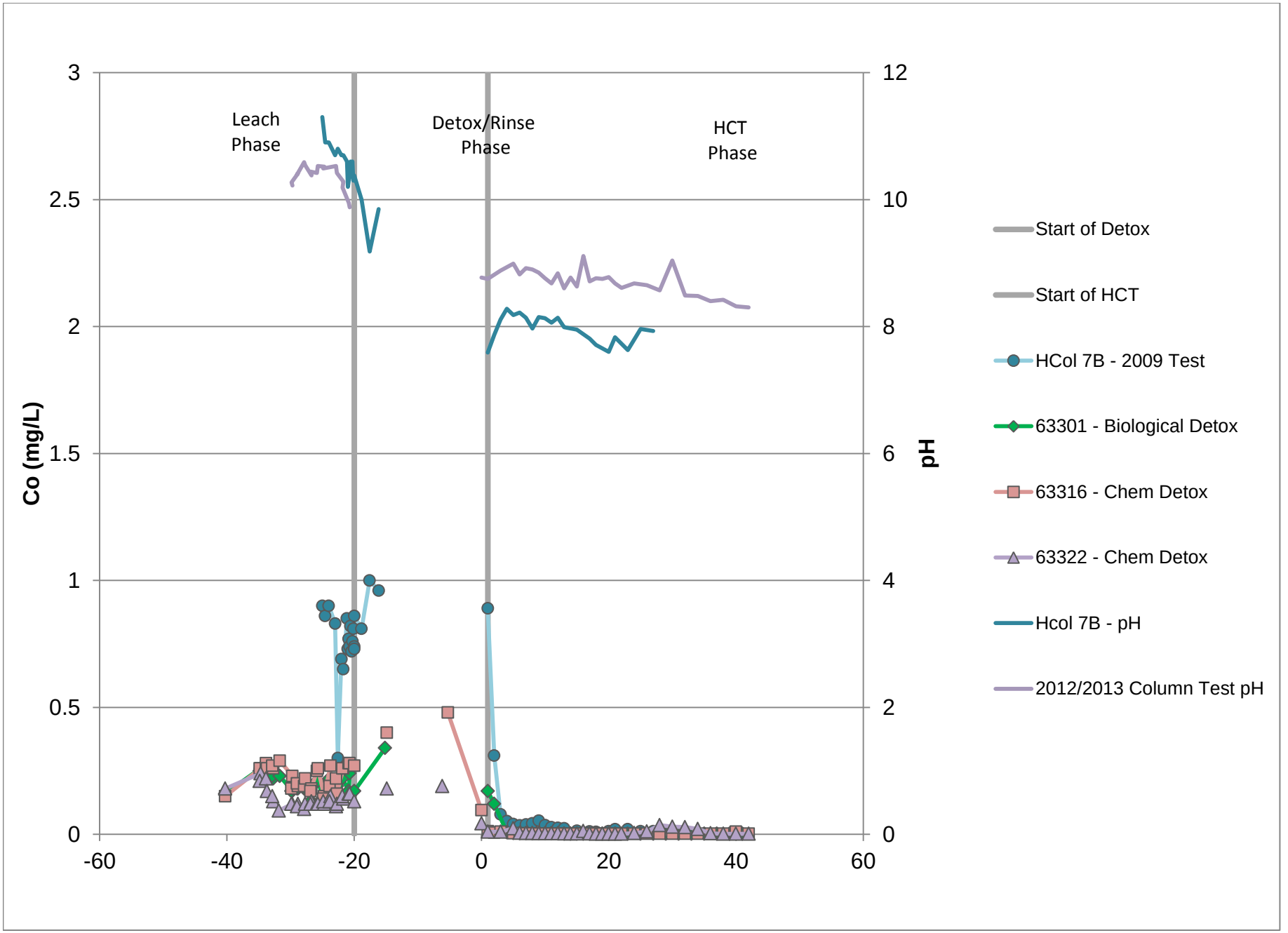

Leach Phase
Detox/Rinse Phase
HCT Phase
Bi (mg/L)
pH
3
2.5
2
1.5
1
0.5
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

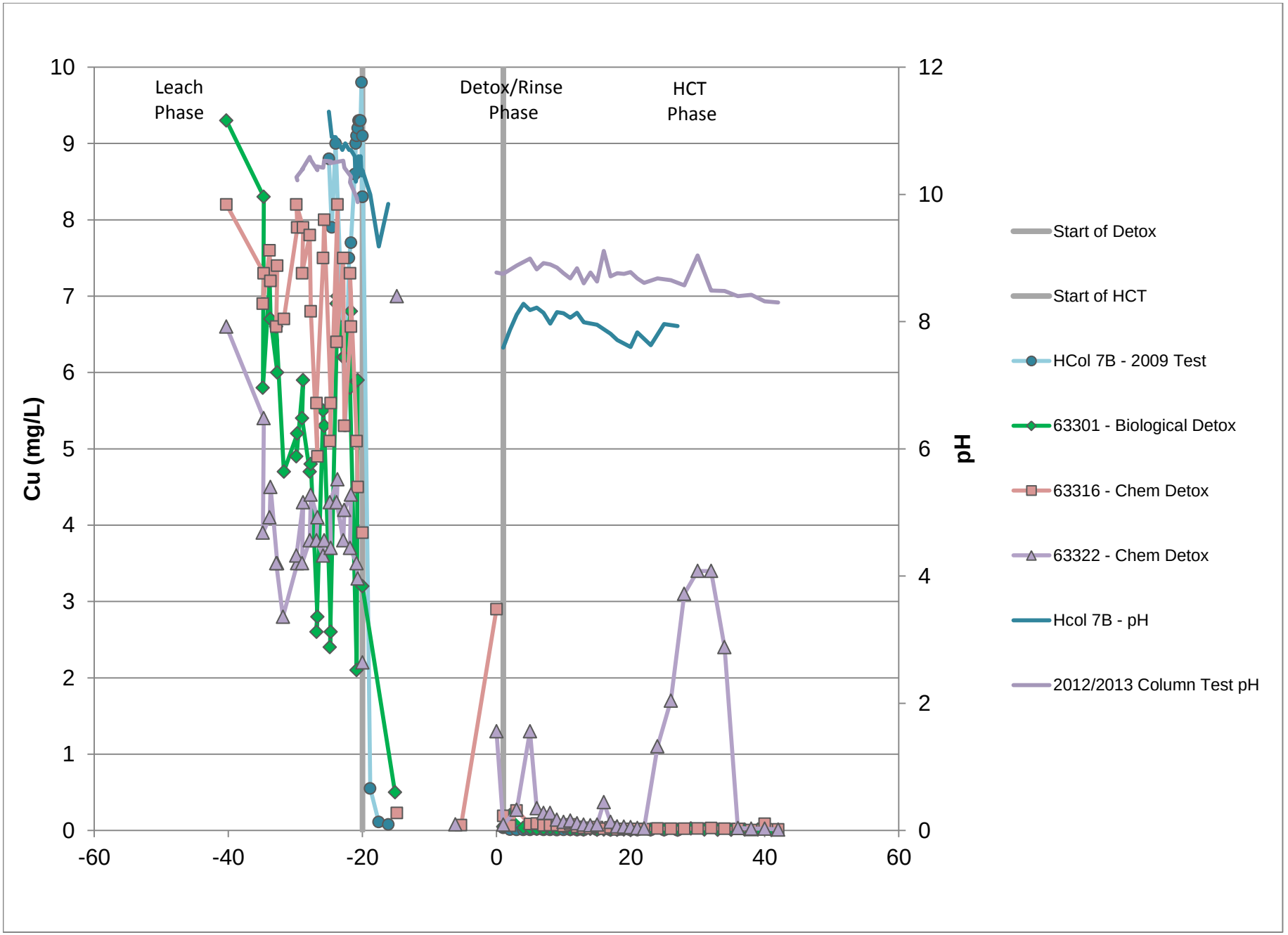

Leach Phase
Detox/Rinse Phase
HCT Phase
B (mg/L)
pH
3
2.5
2
1.5
1
0.5
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

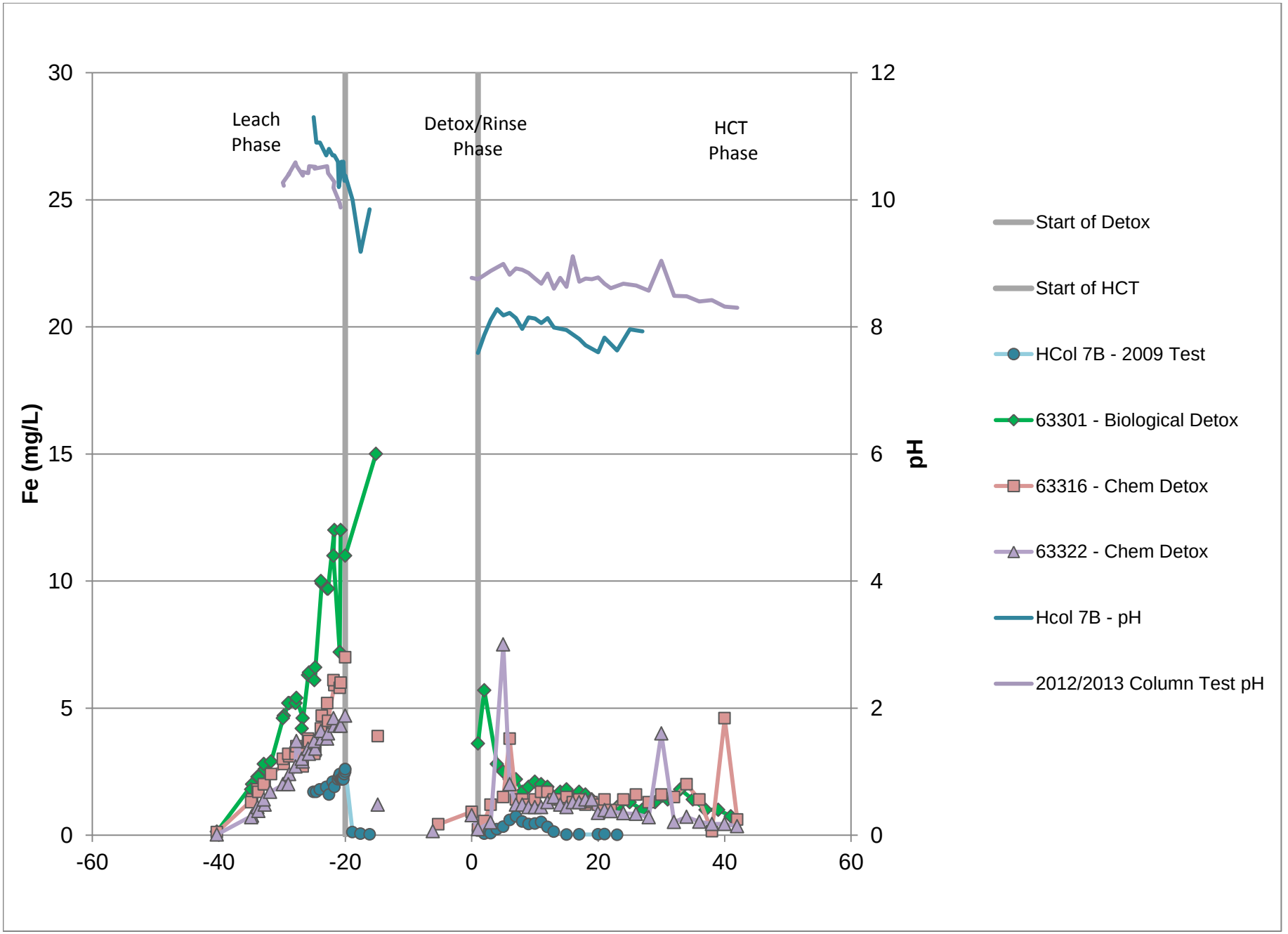

Leach Phase
Detox/Rinse Phase
HCT Phase
Cd (mg/L)
pH
0.6
0.5
0.4
0.3
0.2
0.1
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

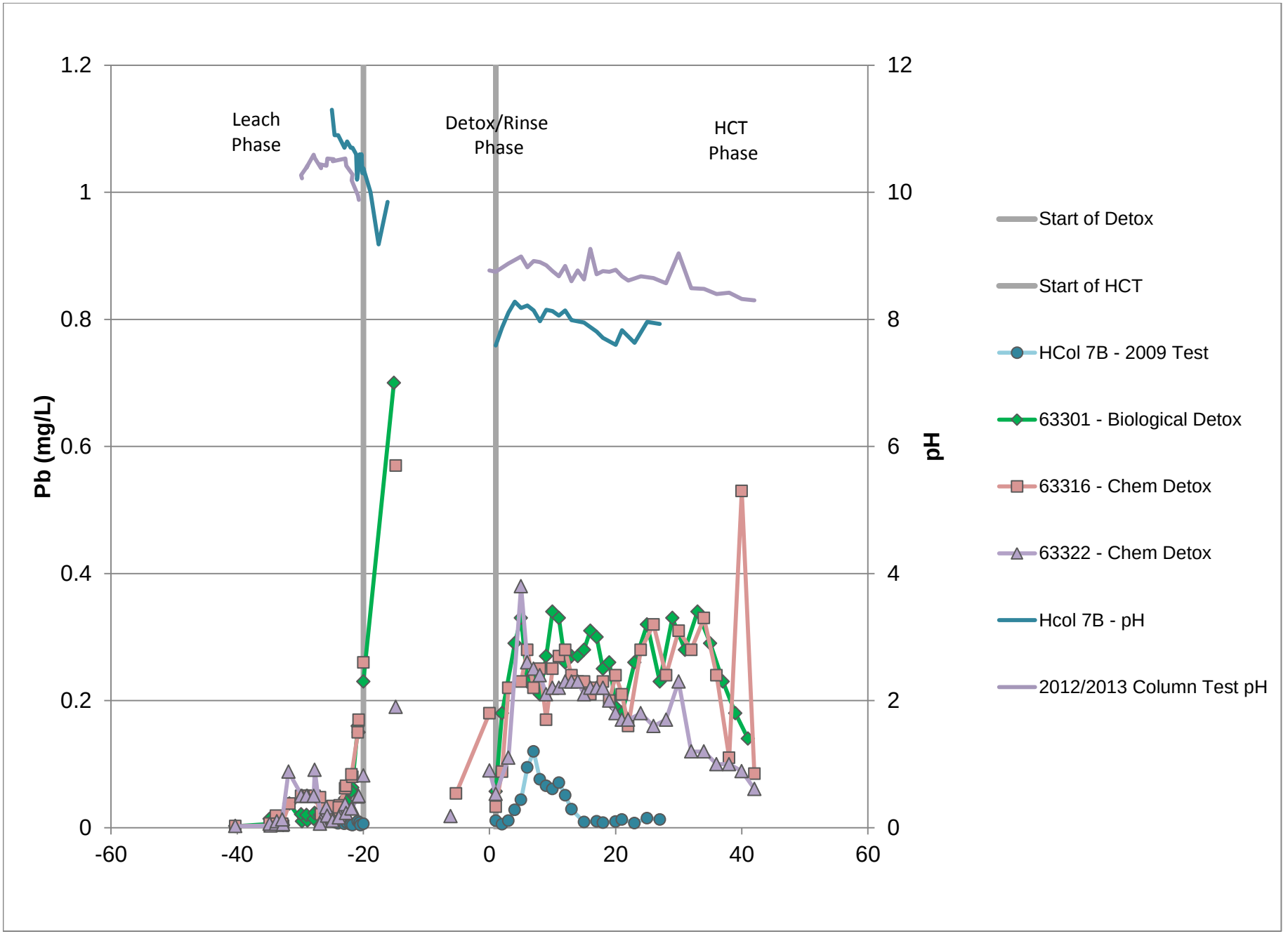

Leach Phase
Detox/Rinse Phase
HCT Phase
Ca (mg/L)
pH
1500
1250
1000
750
500
250
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

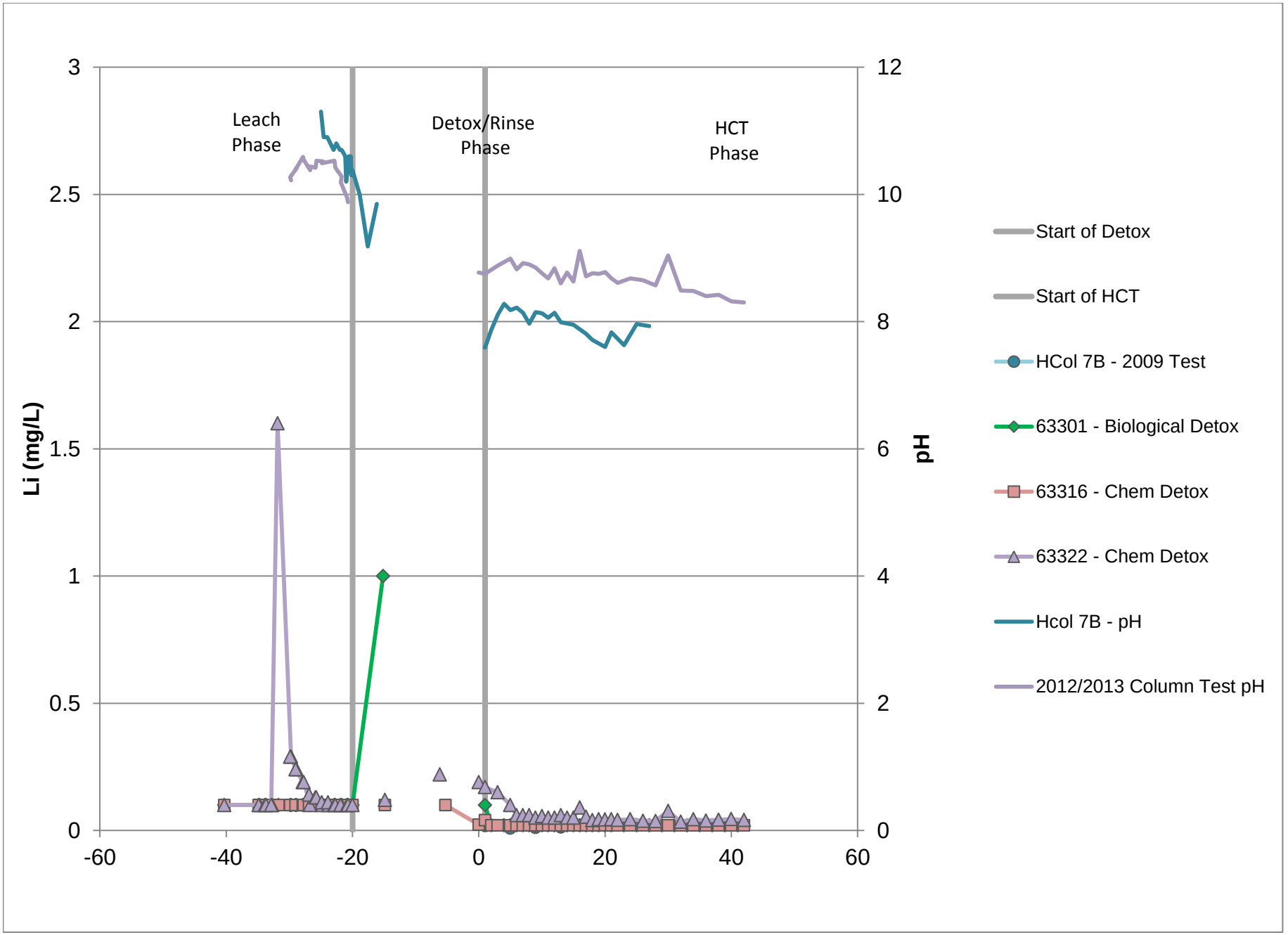

Leach Phase
Detox/Rinse Phase
HCT Phase
Cr (mg/L)
pH
0.6
0.5
0.4
0.3
0.2
0.1
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

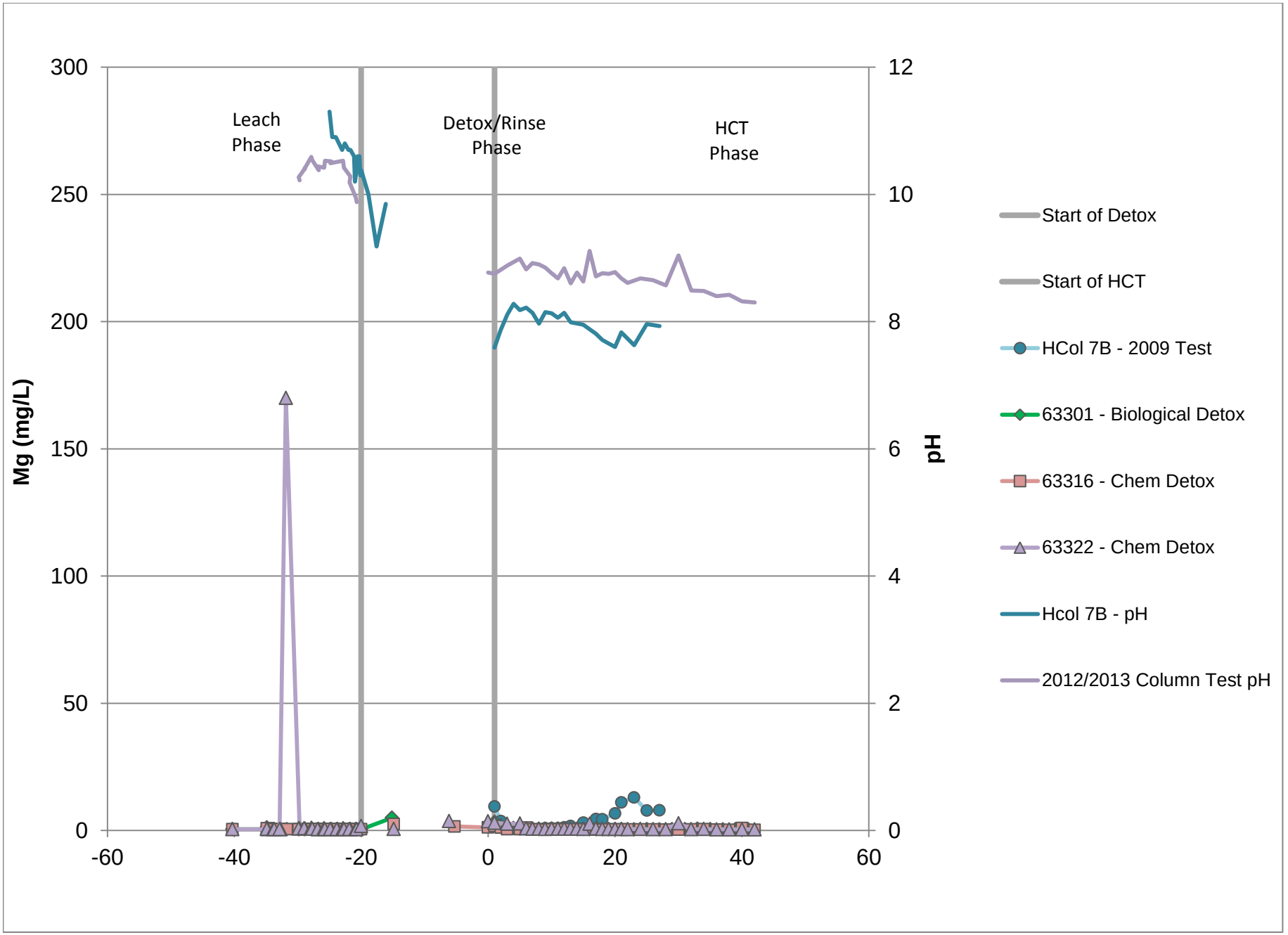

Leach Phase
Detox/Rinse Phase
HCT Phase
Co (mg/L)
pH
3
2.5
2
1.5
1
0.5
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

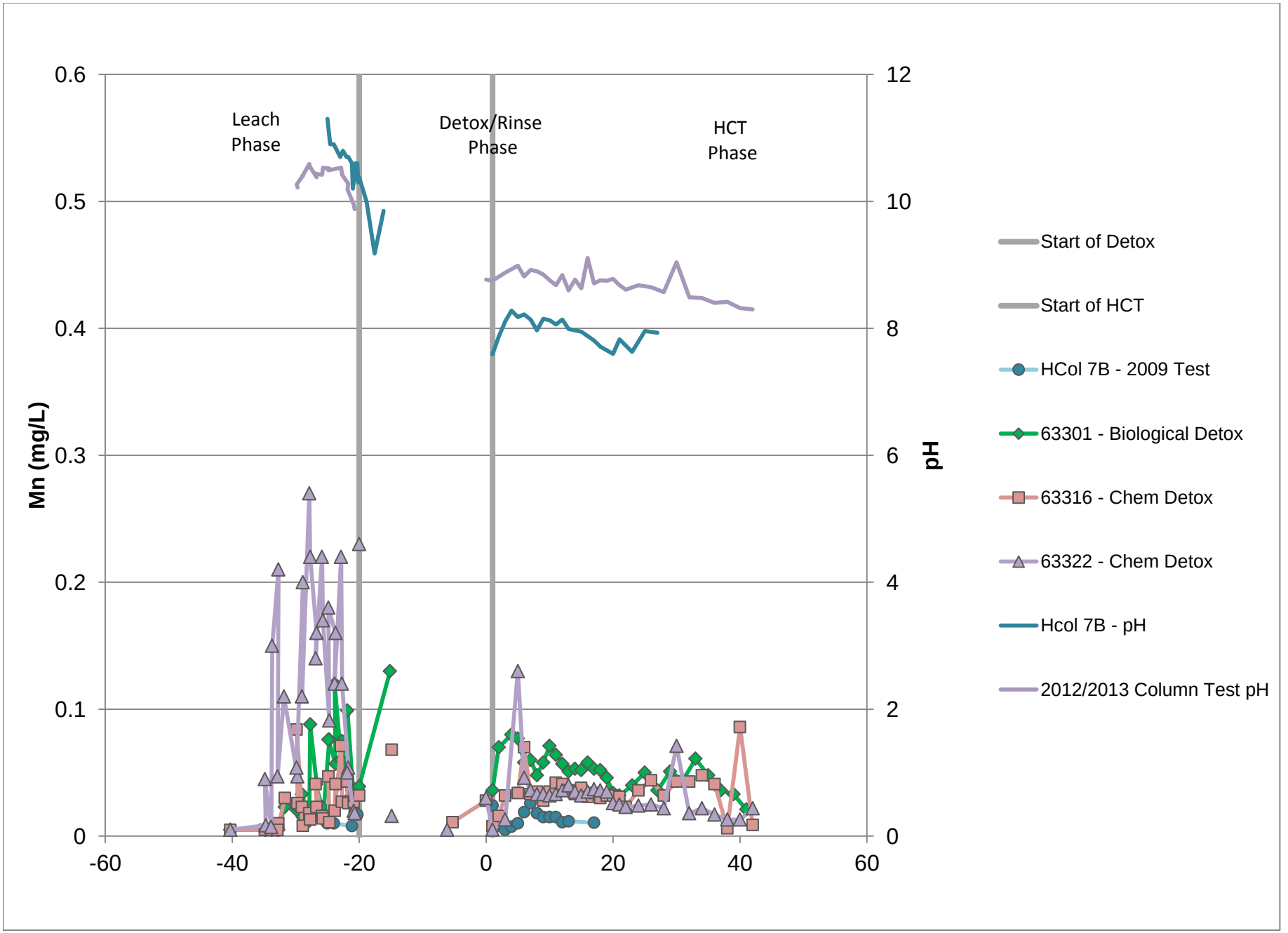

Leach Phase
Detox/Rinse Phase
HCT Phase
Cu (mg/L)
pH
10
9
8
7
6
5
4
3
2
1
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

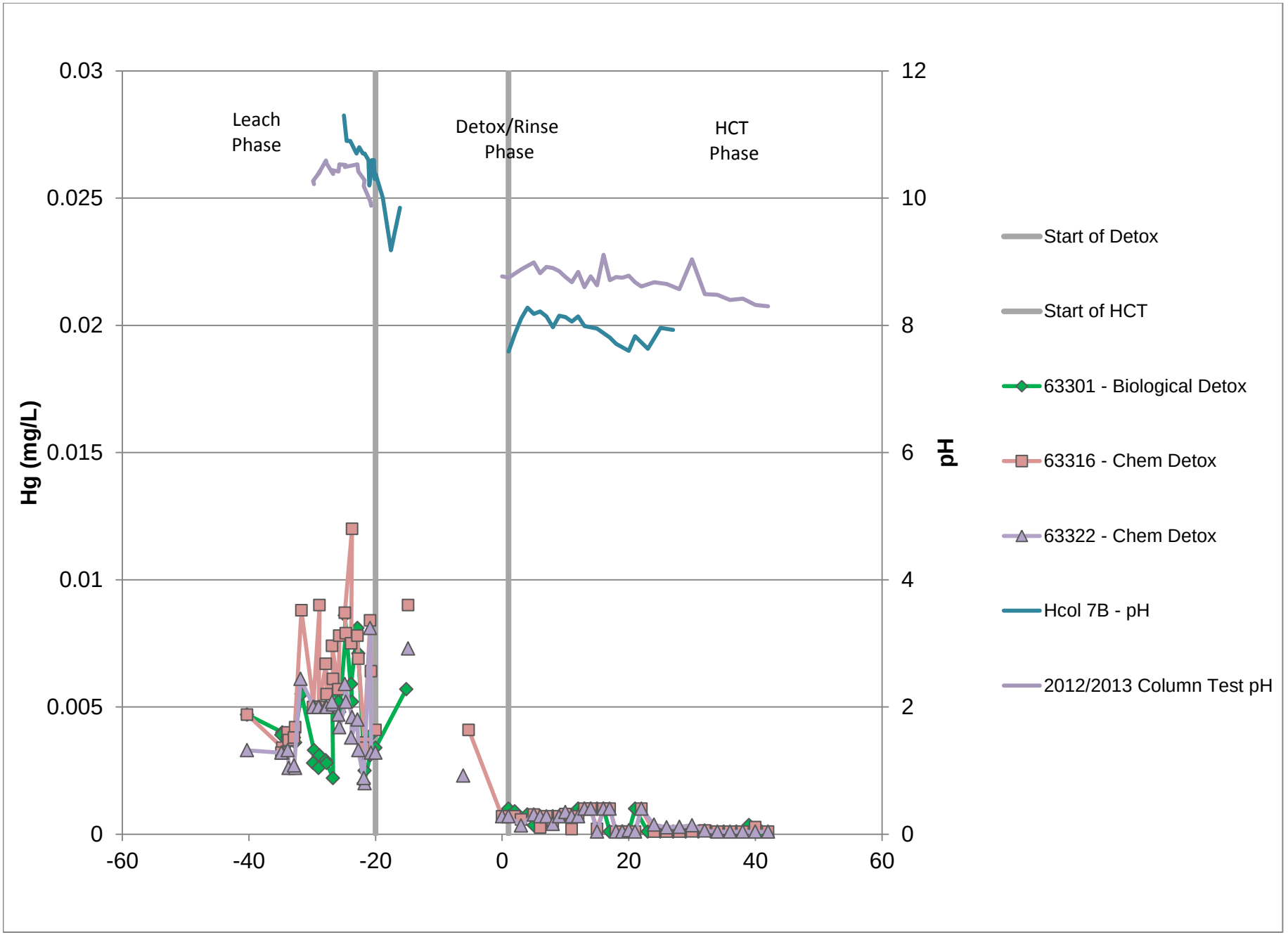

Leach Phase
Detox/Rinse Phase
HCT Phase
Fe (mg/L)
pH
30
25
20
15
10
5
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

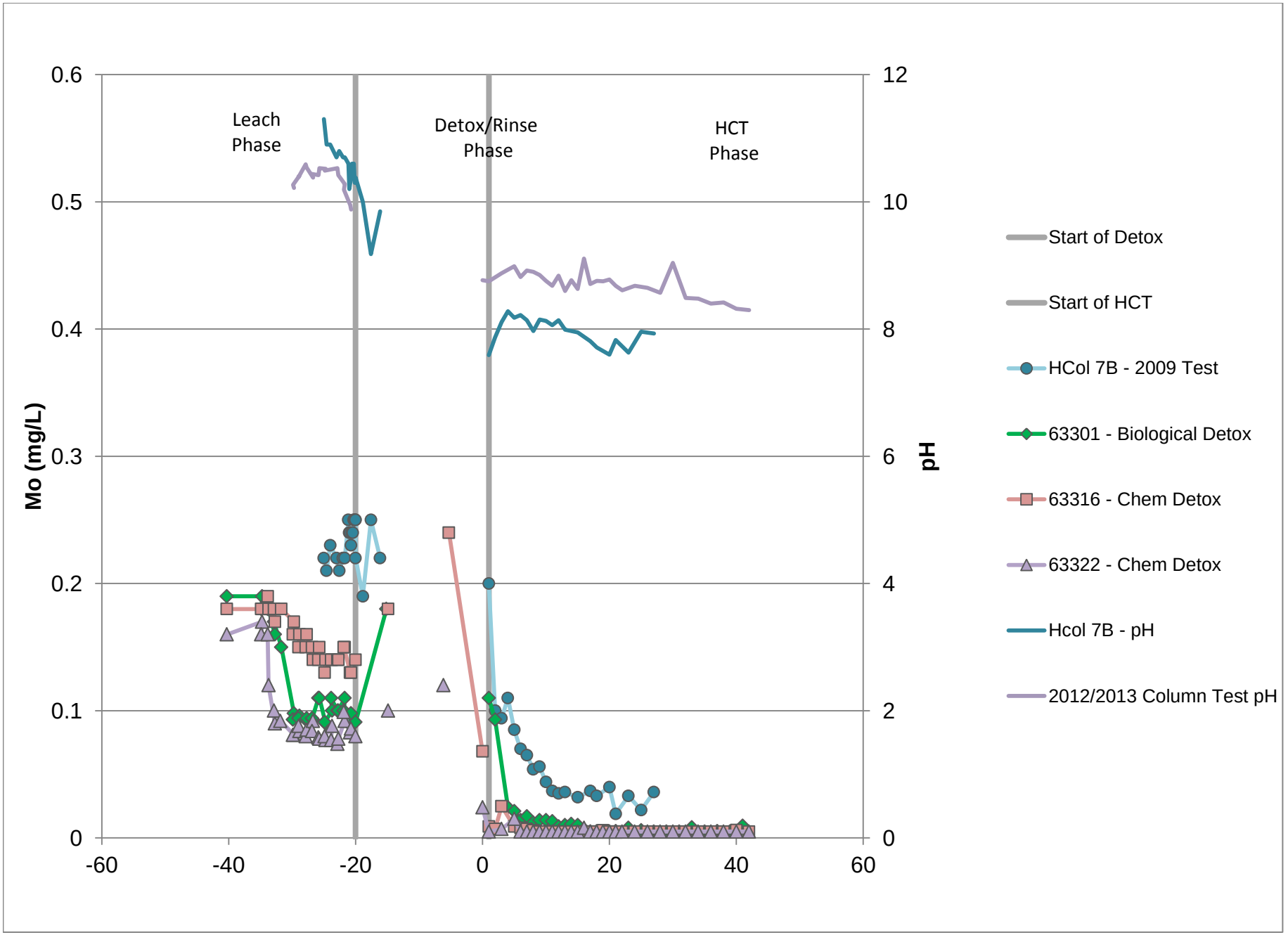

Leach Phase
Detox/Rinse Phase
HCT Phase
Pb (mg/L)
pH
1.2
1
0.8
0.6
0.4
0.2
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

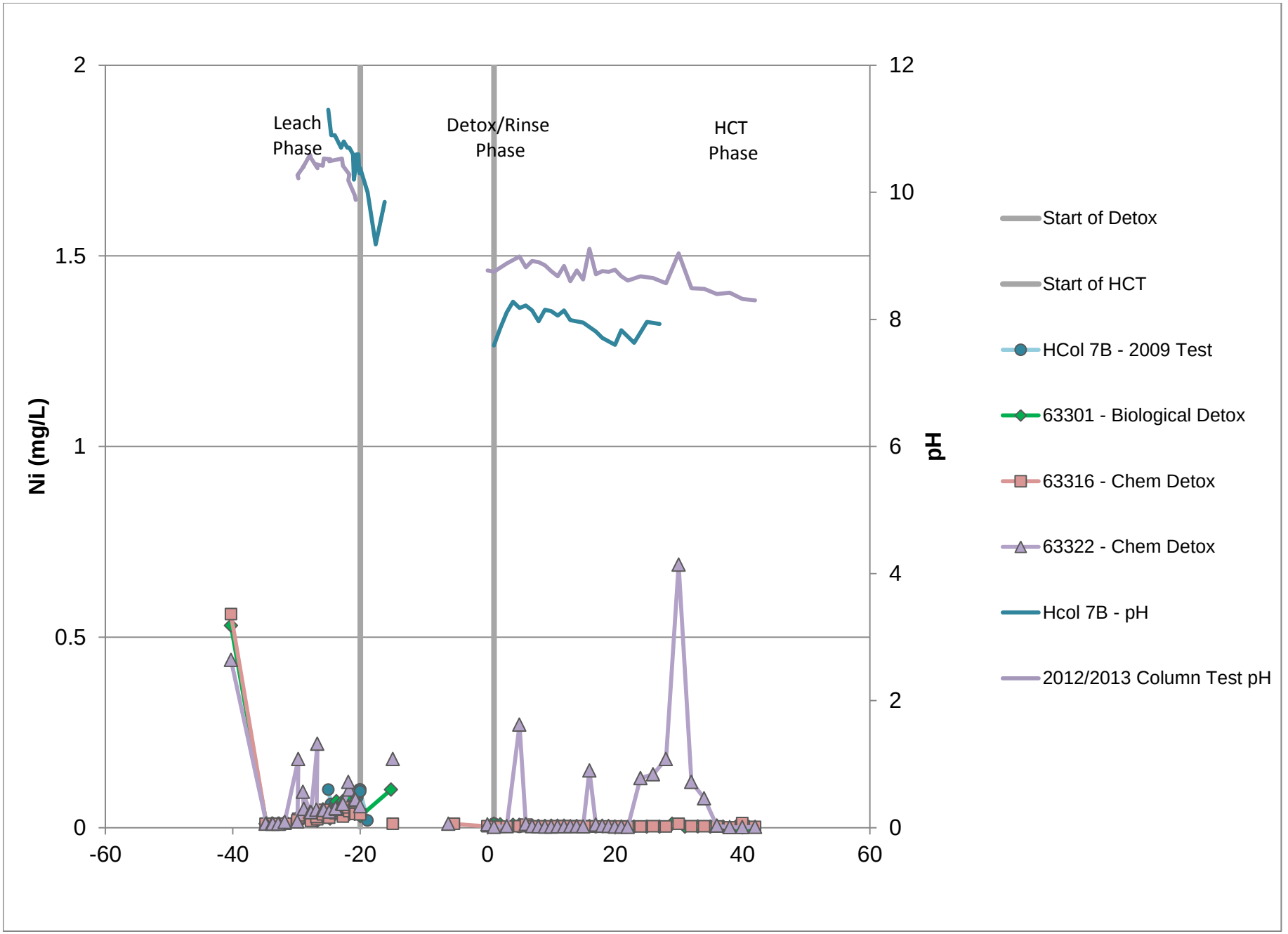

Leach Phase
Detox/Rinse Phase
HCT Phase
Li (mg/L)
pH
3
2.5
2
1.5
1
0.5
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

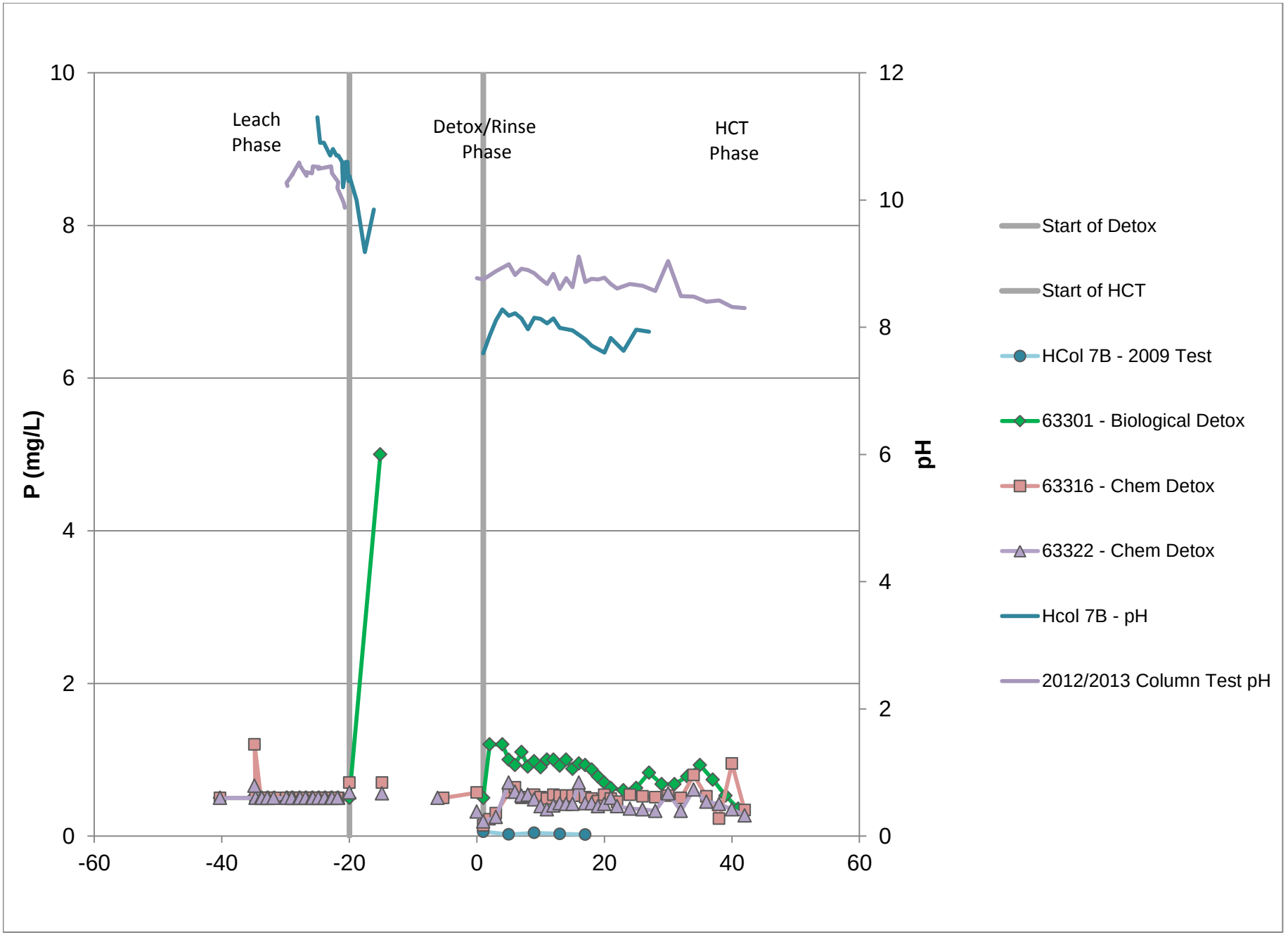

Leach Phase
Detox/Rinse Phase
HCT Phase
Mg (mg/L)
pH
300
250
200
150
100
50
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

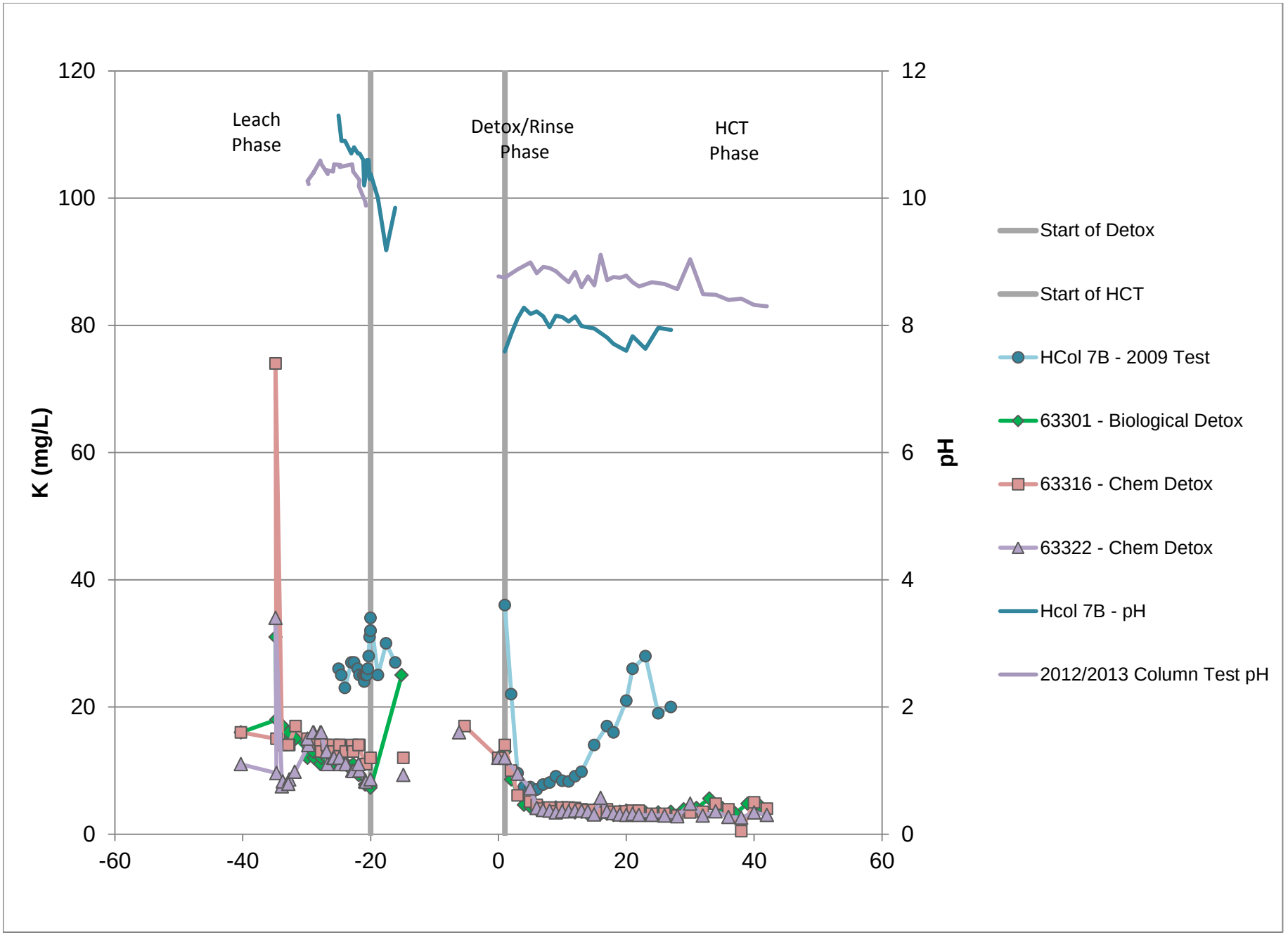

Leach Phase
Detox/Rinse Phase
HCT Phase
Mn (mg/L)
pH
0.6
0.5
0.4
0.3
0.2
0.1
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

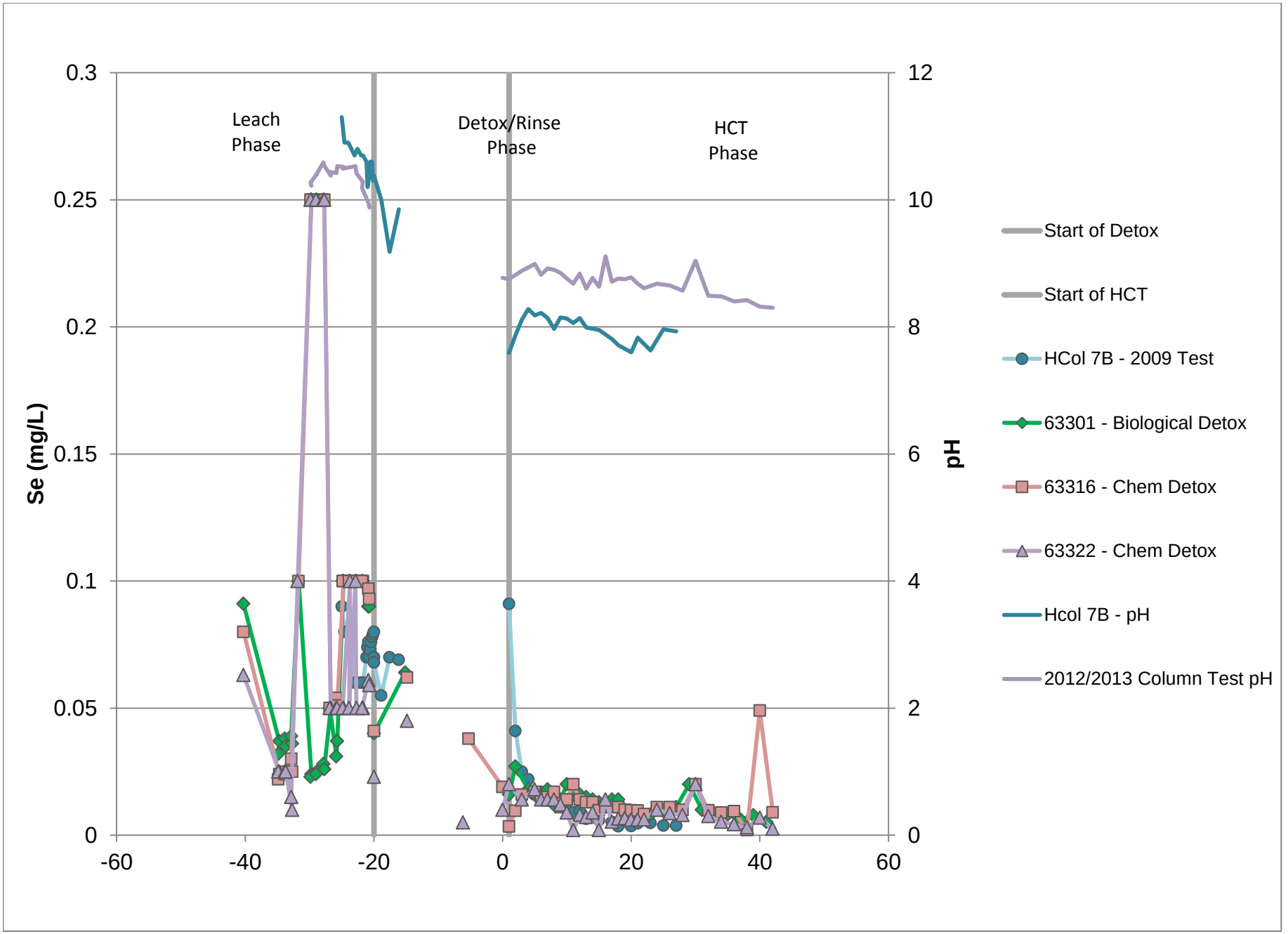

Leach Phase
Detox/Rinse Phase
HCT Phase
Hg (mg/L)
pH
0.03
0.025
0.02
0.015
0.01
0.005
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

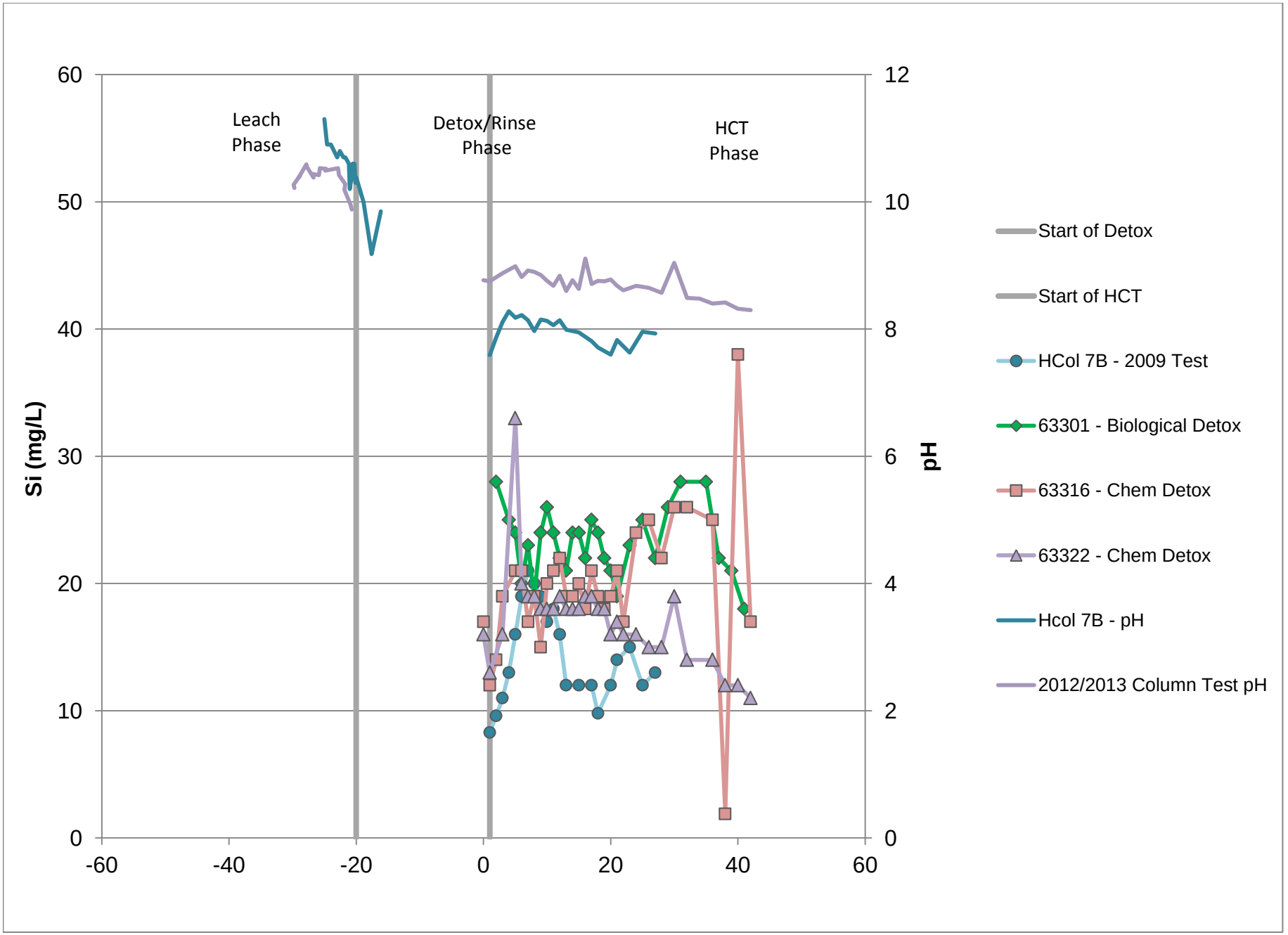

Leach Phase
Detox/Rinse Phase
HCT Phase
Mo (mg/L)
pH
0.6
0.5
0.4
0.3
0.2
0.1
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

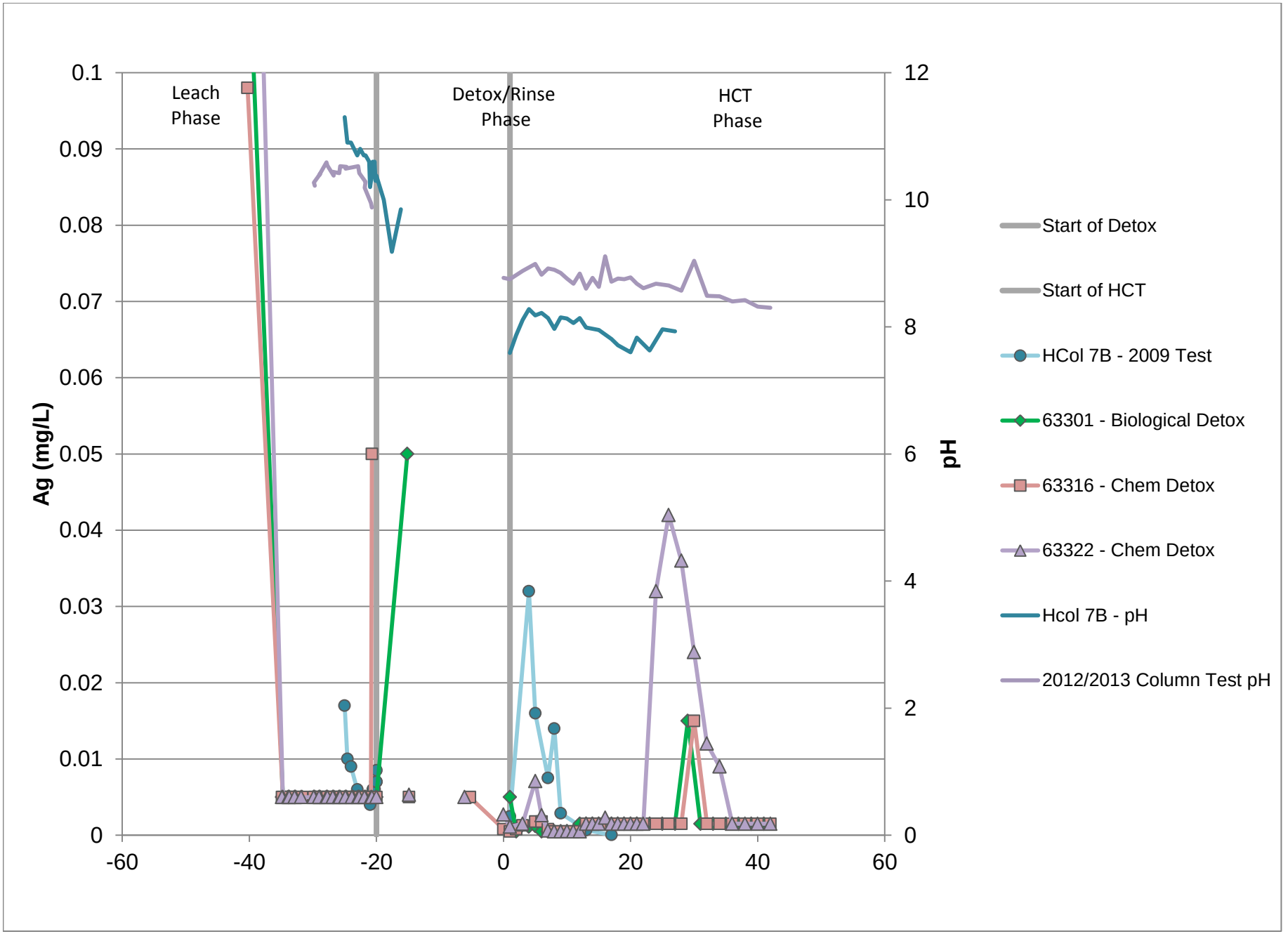

Leach Phase
Detox/Rinse Phase
HCT Phase
Ni (mg/L)
pH
2
1.5
1
0.5
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

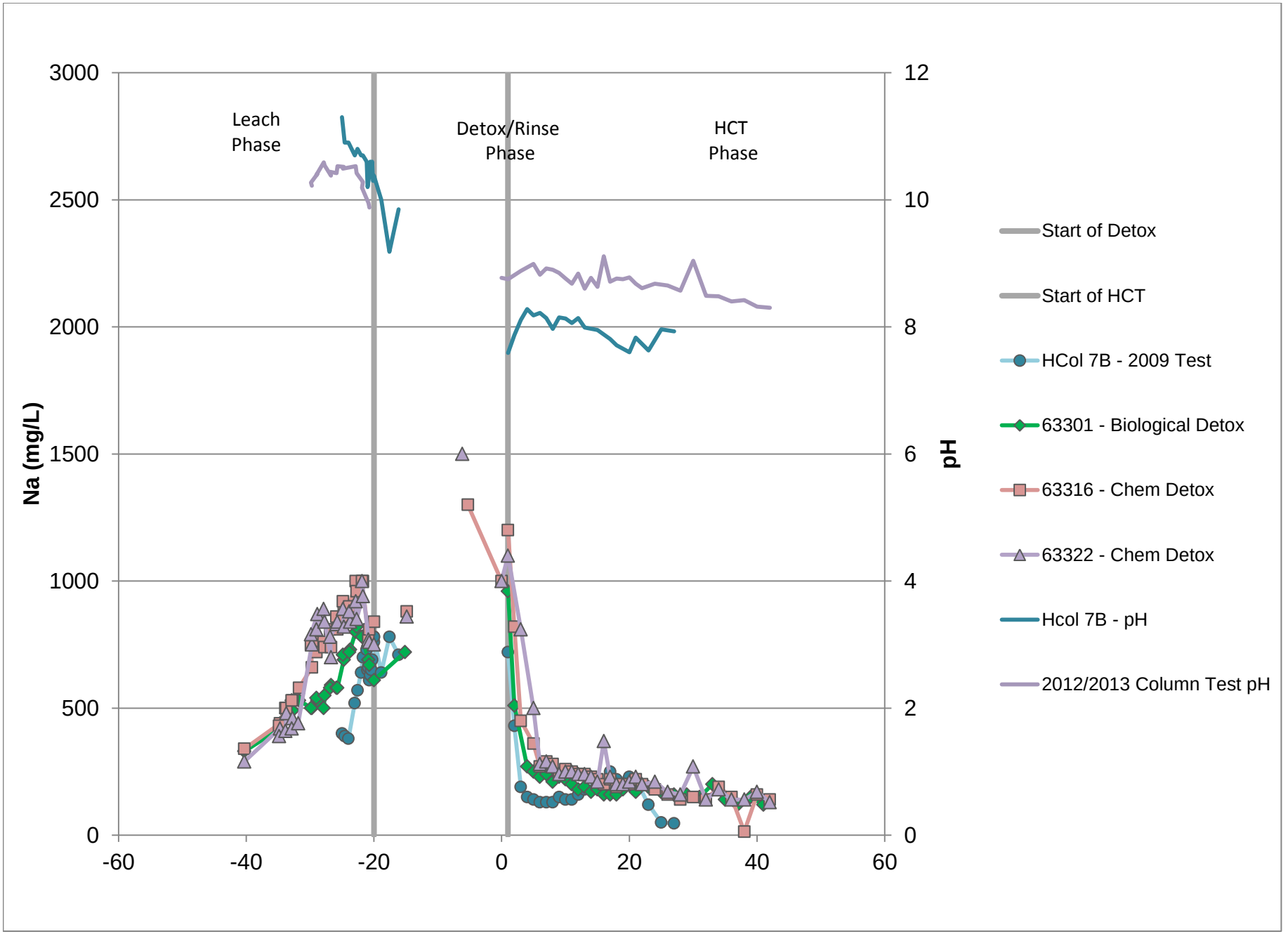

Leach Phase
Detox/Rinse Phase
HCT Phase
P (mg/L)
pH
10
8
6
4
2
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

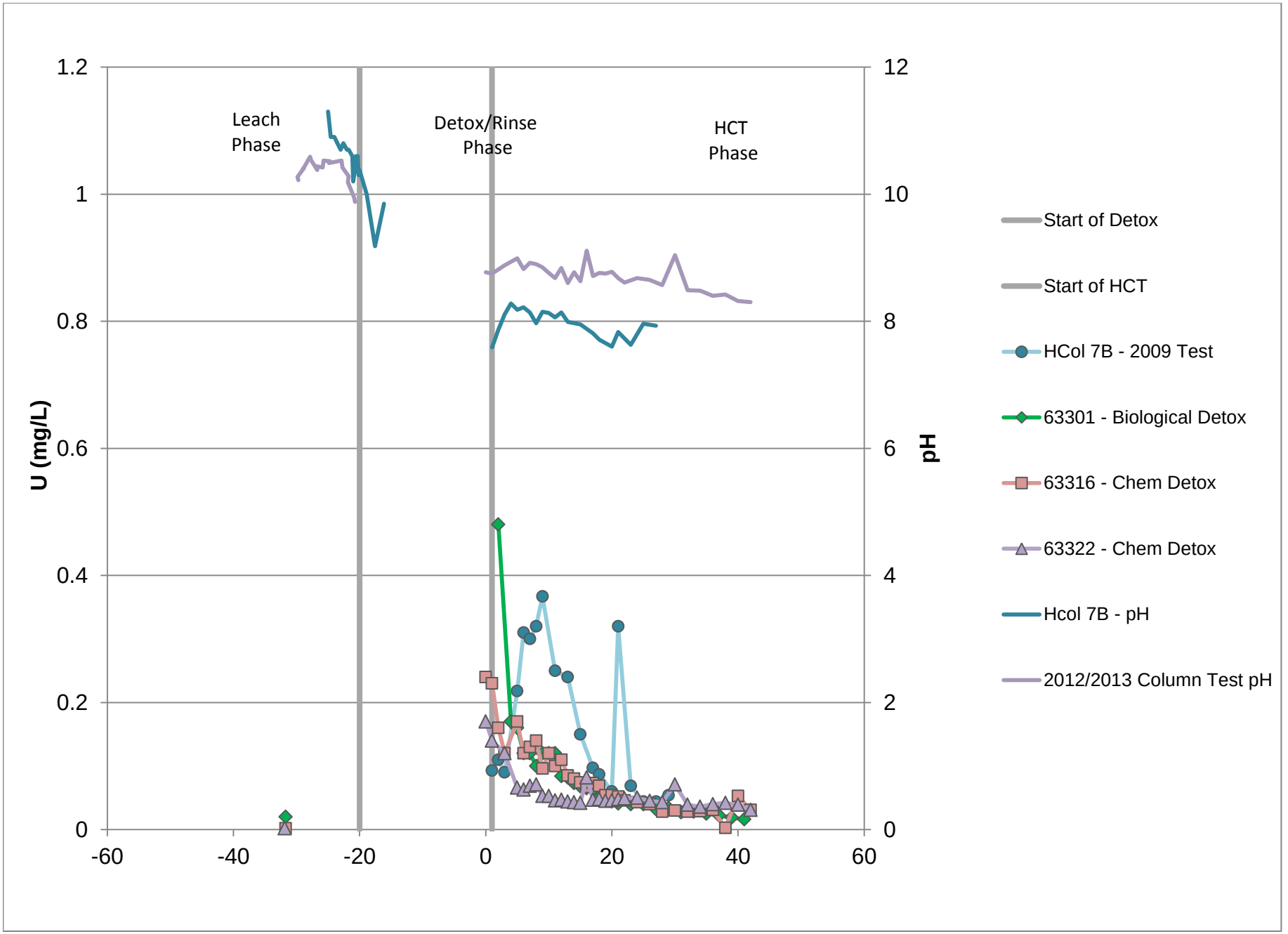

Leach Phase
Detox/Rinse Phase
HCT Phase
K (mg/L)
pH
120
100
80
60
40
20
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

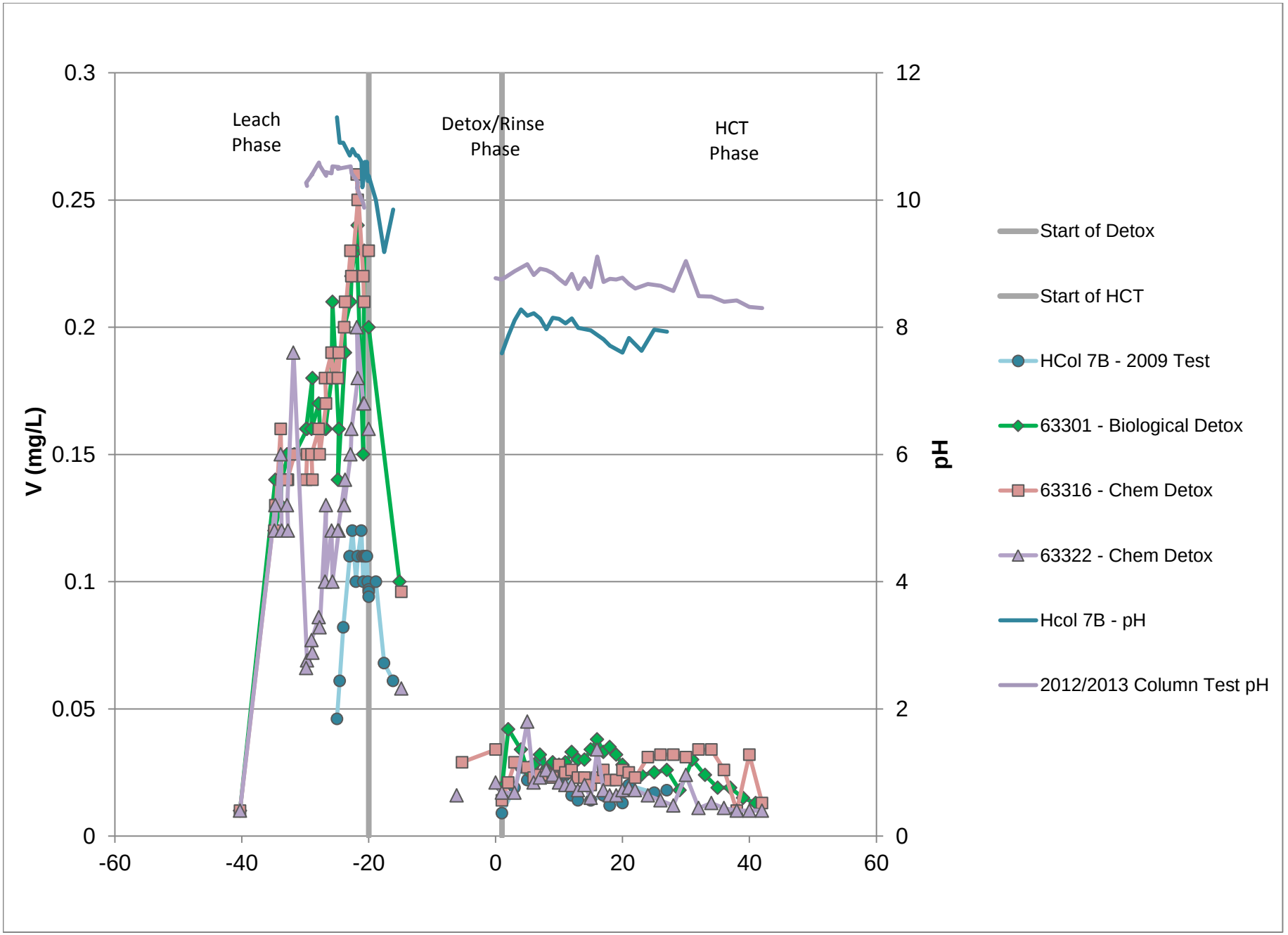

Leach Phase
Detox/Rinse Phase
HCT Phase
Se (mg/L)
pH
0.3
0.25
0.2
0.15
0.1
0.05
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

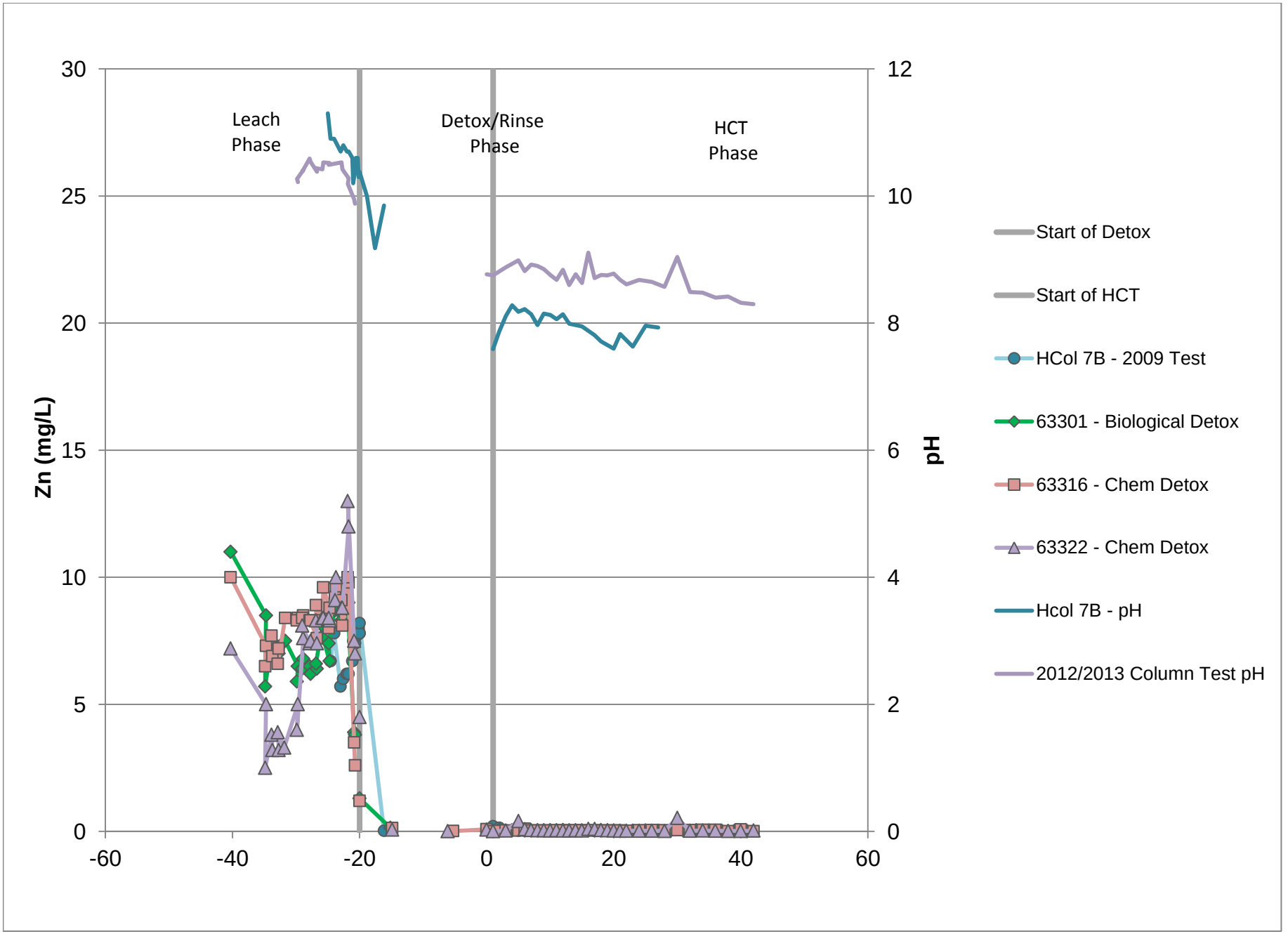

Leach Phase
Detox/Rinse Phase
HCT Phase
Si (mg/L)
pH
60
50
40
30
20
10
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

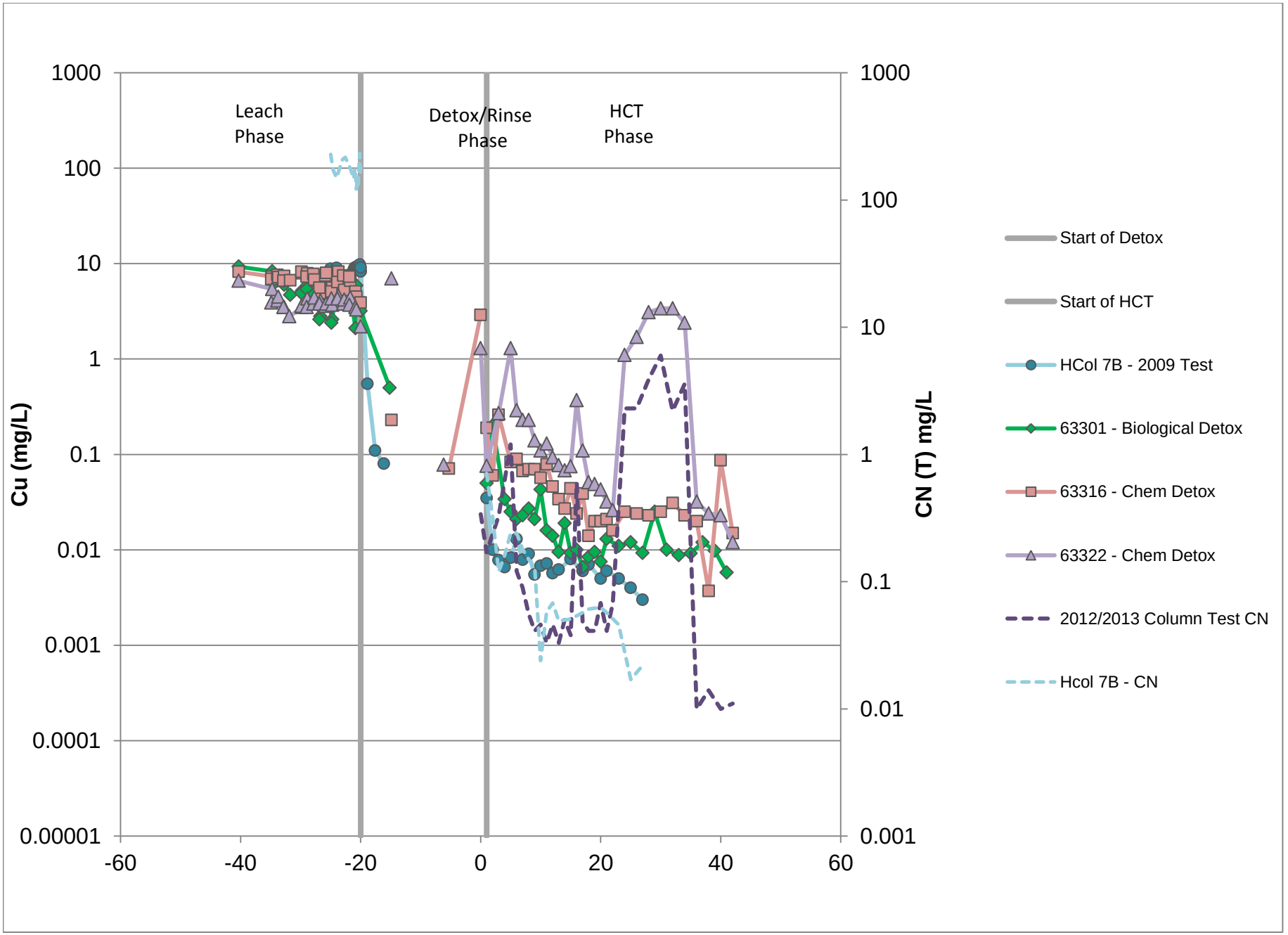

Leach Phase
Detox/Rinse Phase
HCT Phase
Ag (mg/L)
pH
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

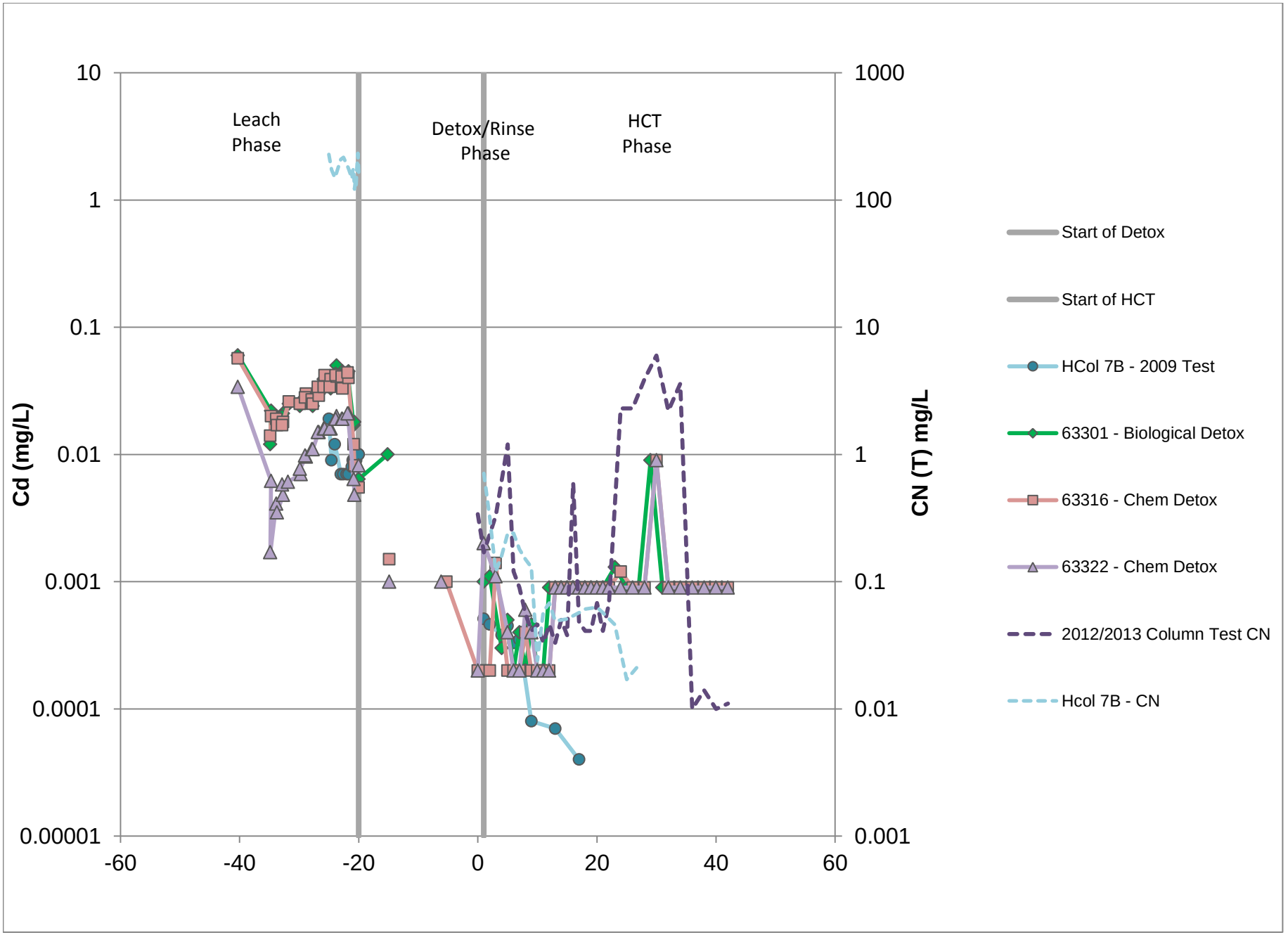

Leach Phase
Detox/Rinse Phase
HCT Phase
Na (mg/L)
pH
3000
2500
2000
1500
1000
500
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

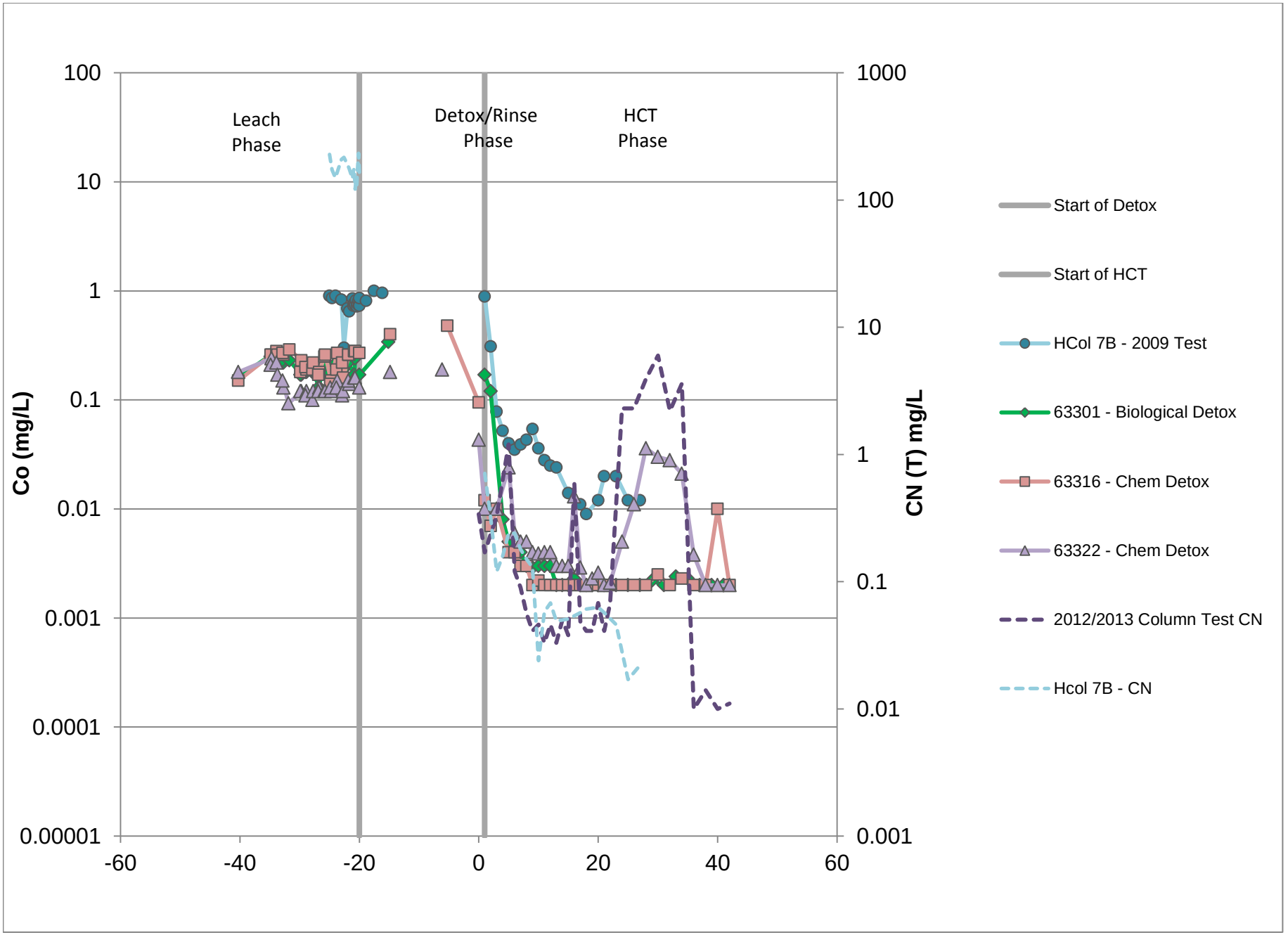

Leach Phase
Detox/Rinse Phase
HCT Phase
U (mg/L)
pH
1.2
1
0.8
0.6
0.4
0.2
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

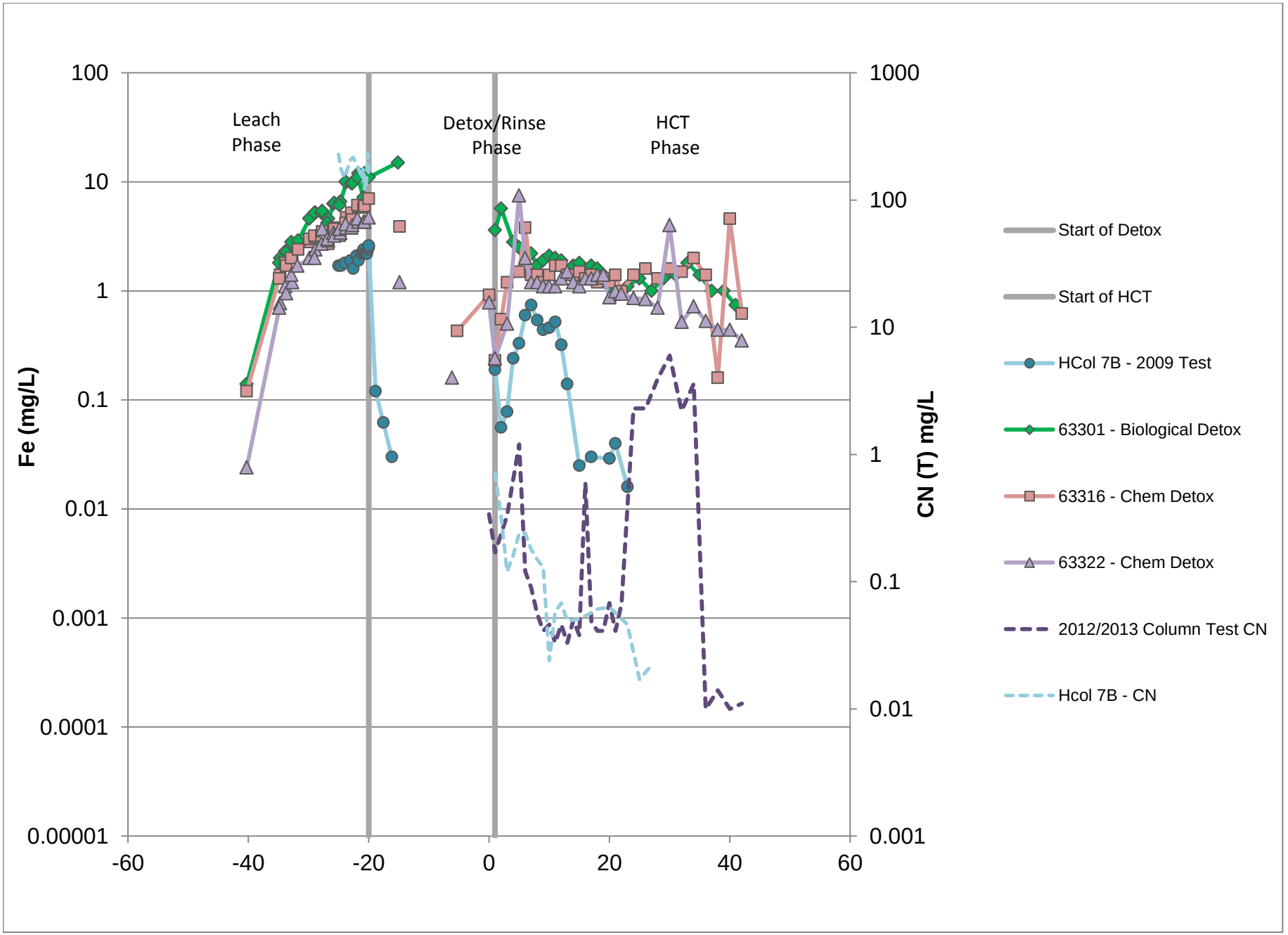

Leach Phase
Detox/Rinse Phase
HCT Phase
V (mg/L)
pH
0.3
0.25
0.2
0.15
0.1
0.05
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

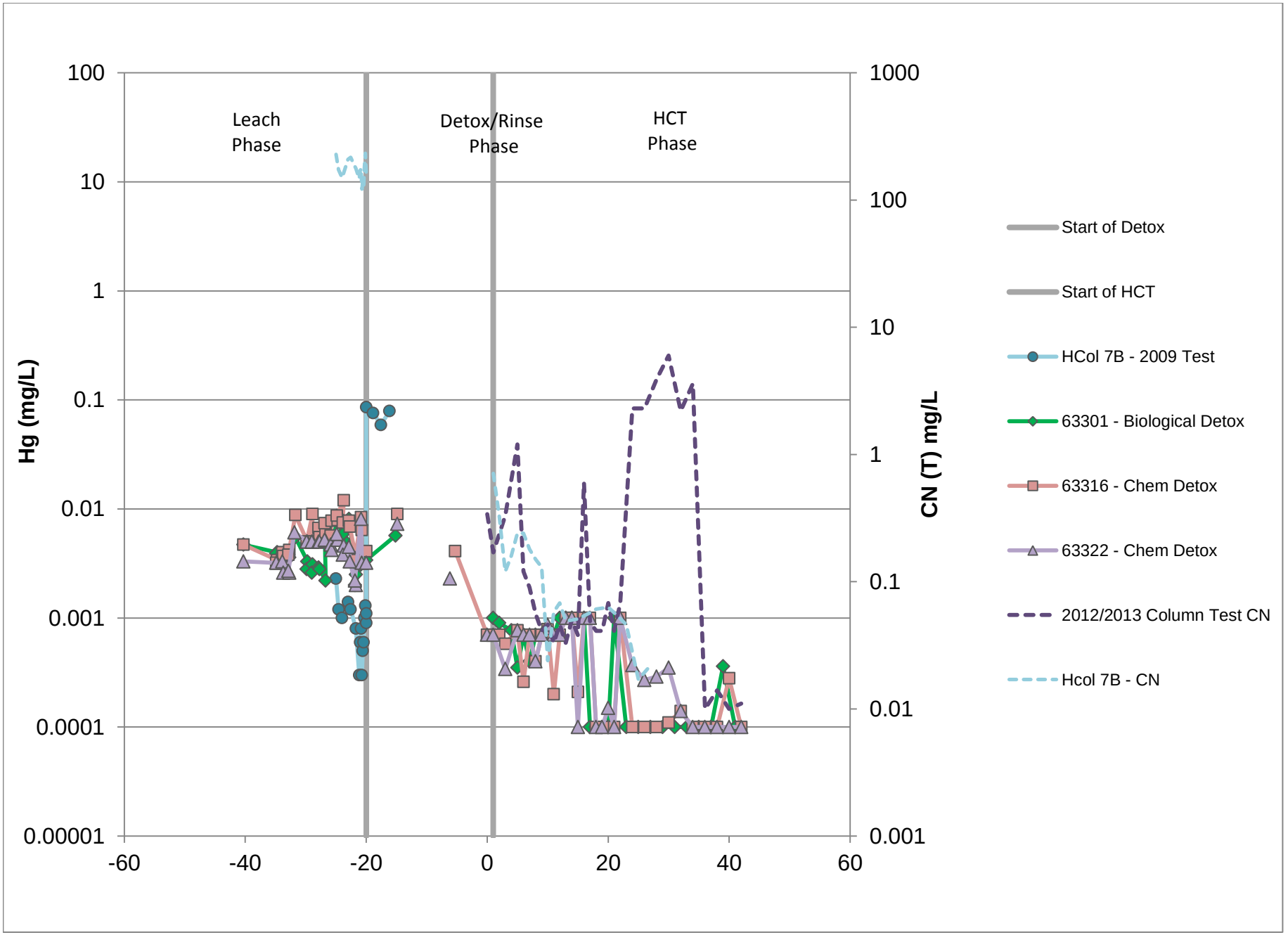

Leach Phase
Detox/Rinse Phase
HCT Phase
Zn (mg/L)
pH
30
25
20
15
10
5
0
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
Hcol 7B - pH
2012/2013 Column Test pH

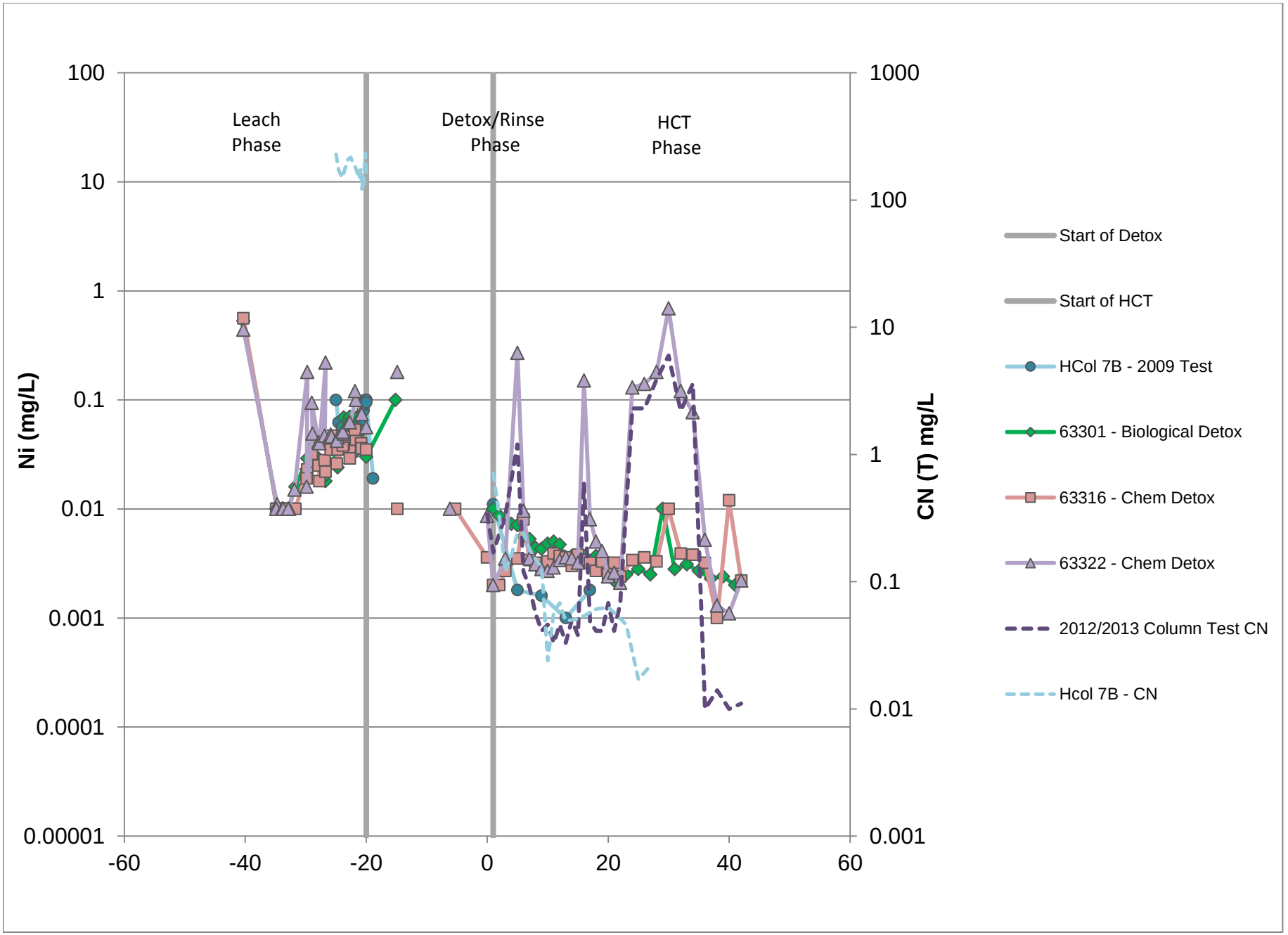

Leach Phase
Detox/Rinse Phase
HCT Phase
Cu (mg/L)
CN (T) mg/L
1000
100
10
1
0.1
0.01
0.001
0.0001
0.00001
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
2012/2013 Column Test CN
Hcol 7B - CN

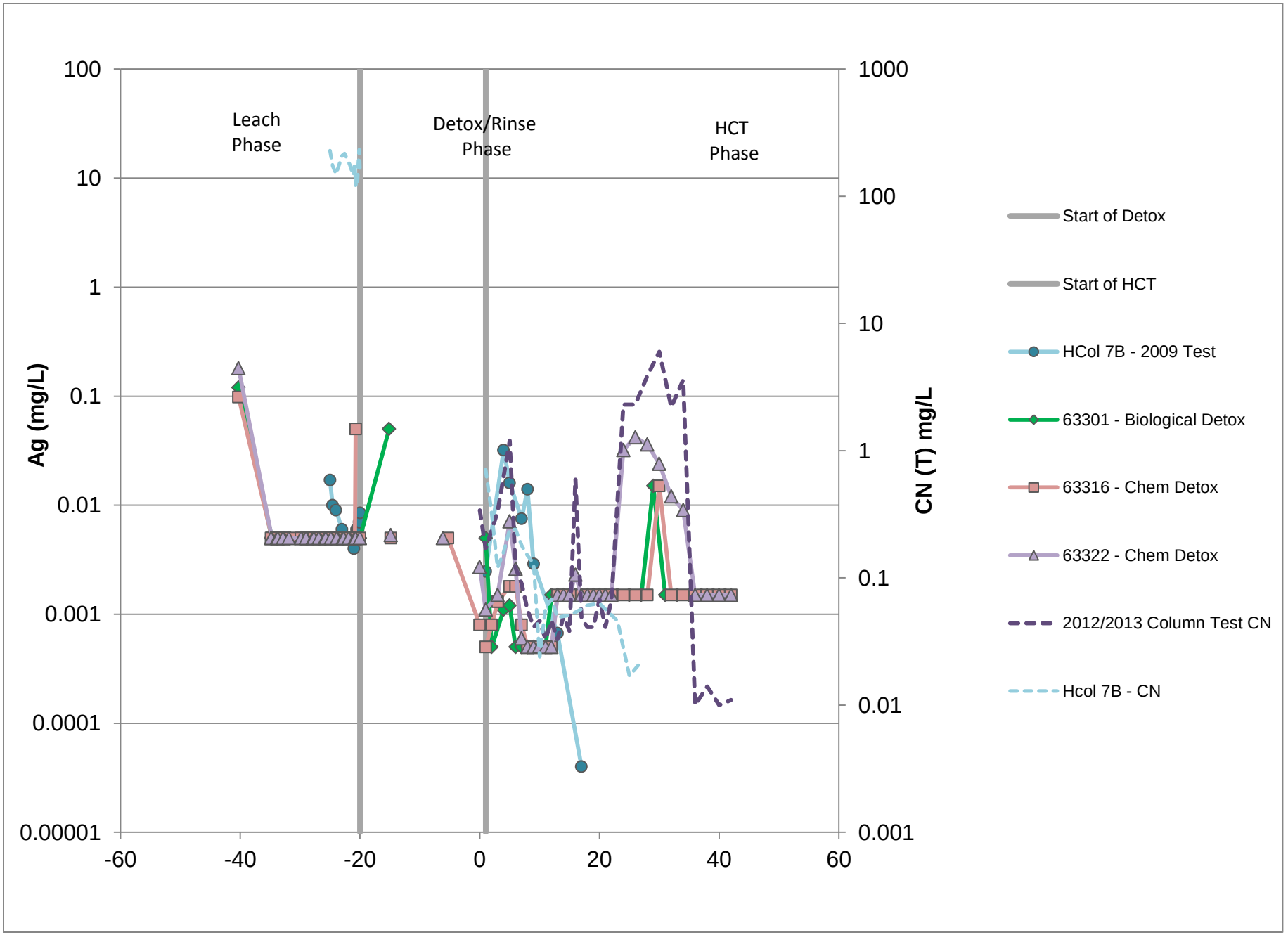

Leach Phase
Detox/Rinse Phase
HCT Phase
Cd (mg/L)
CN (T) mg/L
10
1
0.1
0.01
0.001
0.0001
0.00001
1000
100
10
1
0.1
0.01
0.001
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
2012/2013 Column Test CN
Hcol 7B - CN

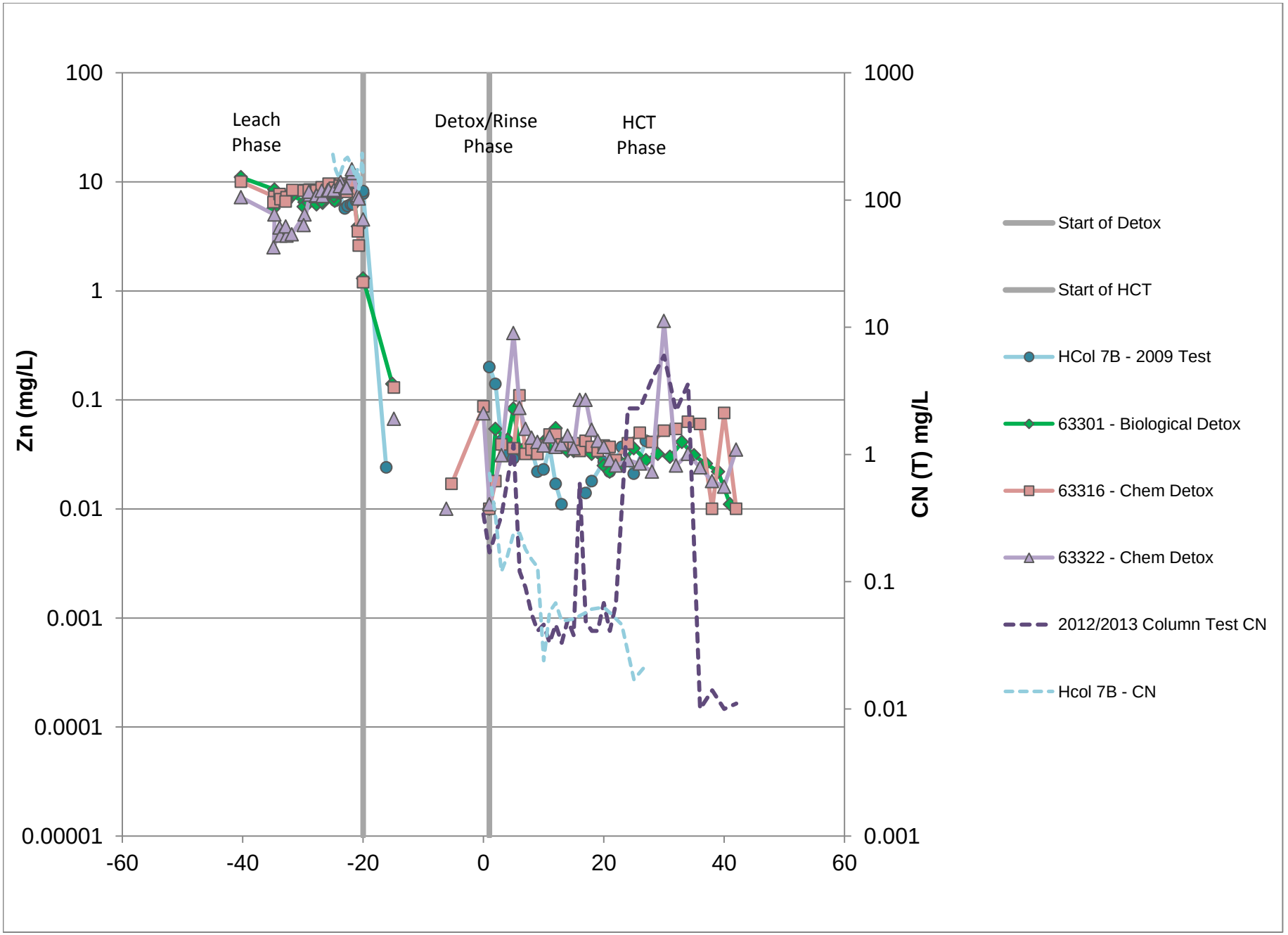

Leach Phase
Detox/Rinse Phase
HCT Phase
Co (mg/L)
CN (T) mg/L
100
10
1
0.1
0.01
0.001
0.0001
0.00001
1000
100
10
1
0.1
0.01
0.001
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
2012/2013 Column Test CN
Hcol 7B - CN

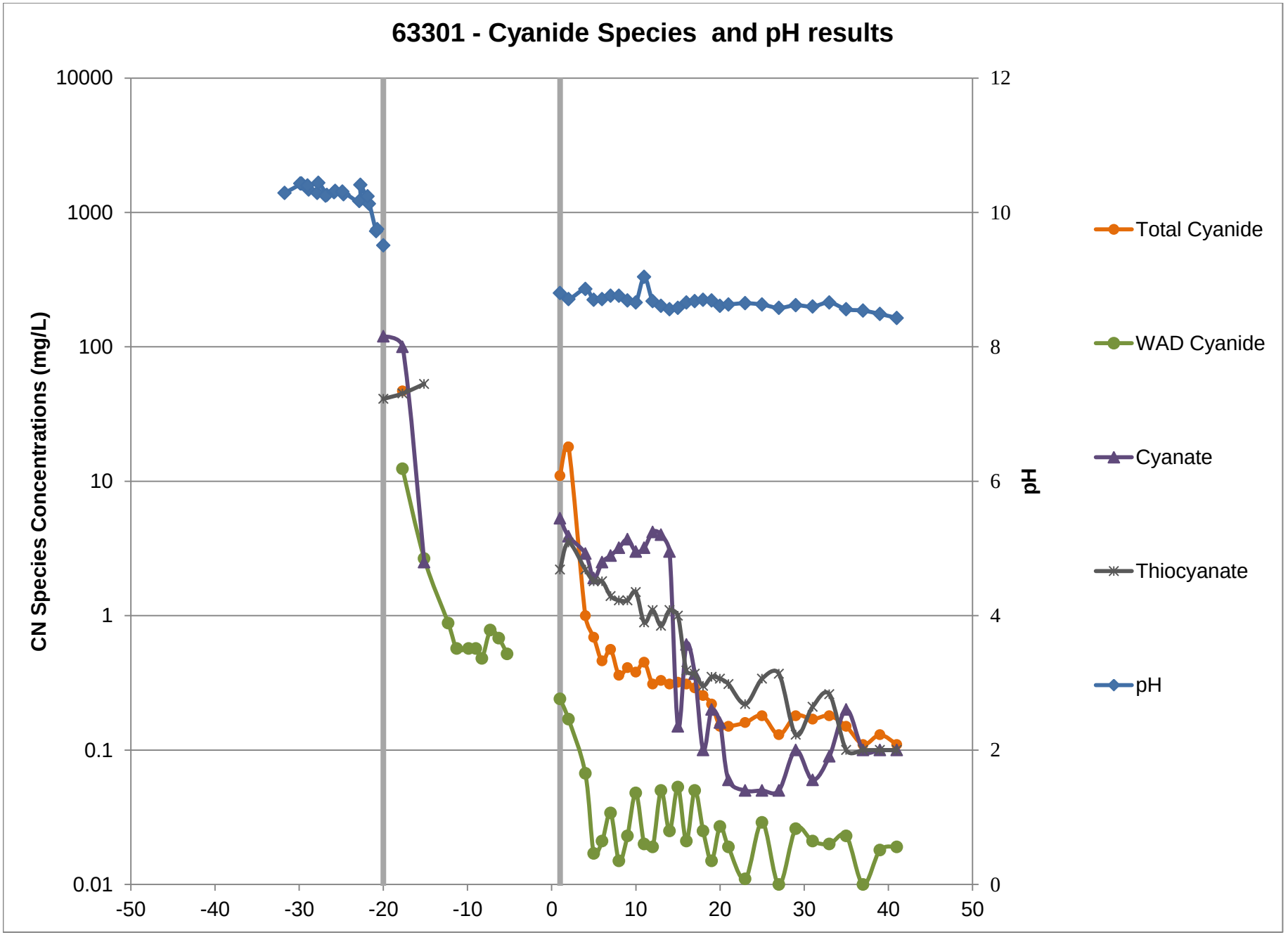

Leach Phase
Detox/Rinse Phase
HCT Phase
Fe (mg/L)
CN (T) mg/L
100
10
1
0.1
0.01
0.001
0.0001
0.00001
1000
100
10
1
0.1
0.01
0.001
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
2012/2013 Column Test CN
Hcol 7B - CN

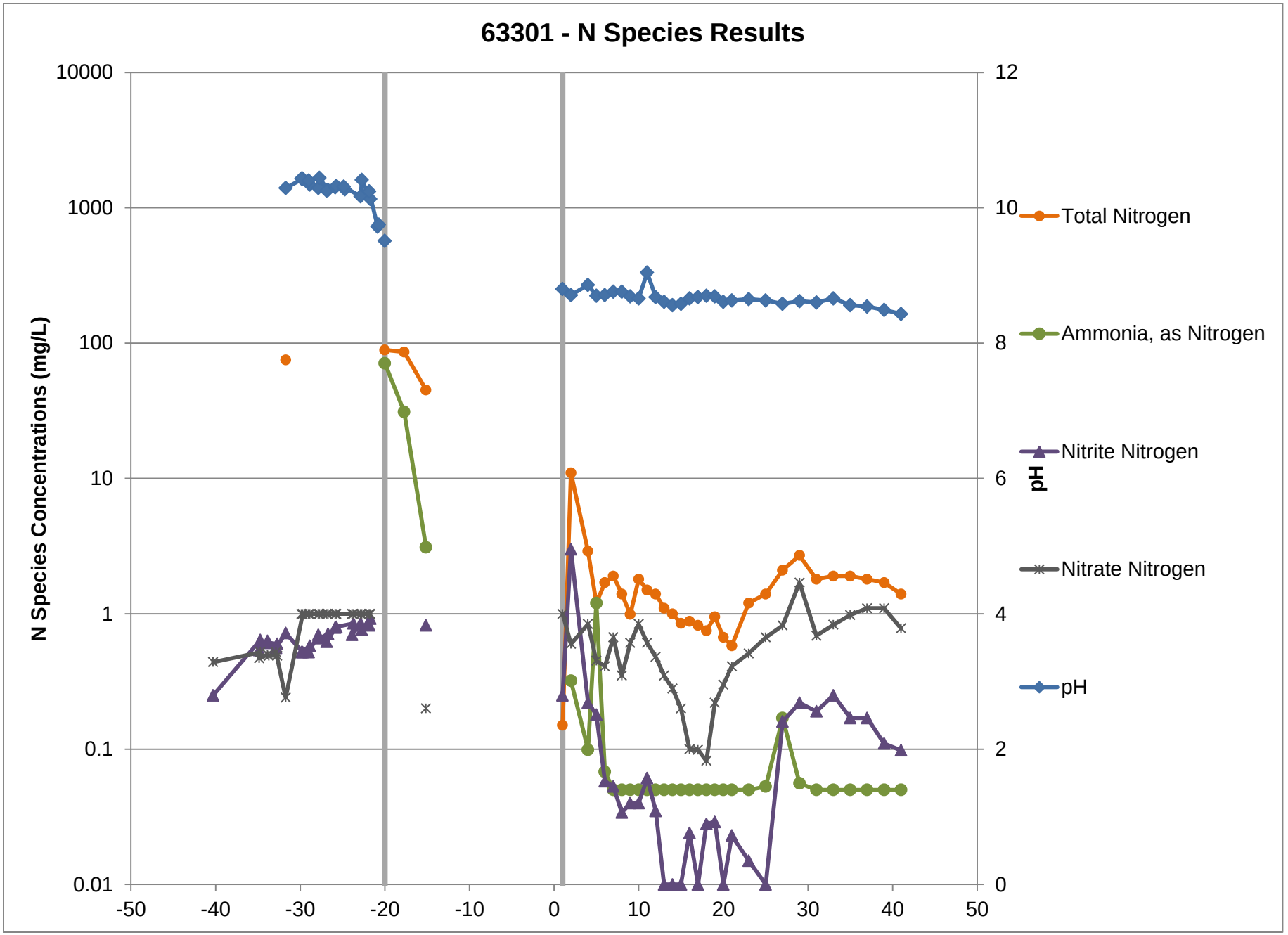

Leach Phase
Detox/Rinse Phase
HCT Phase
Hg (mg/L)
CN (T) mg/L
100
10
1
0.1
0.01
0.001
0.0001
0.00001
1000
100
10
1
0.1
0.01
0.001
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
2012/2013 Column Test CN
Hcol 7B - CN

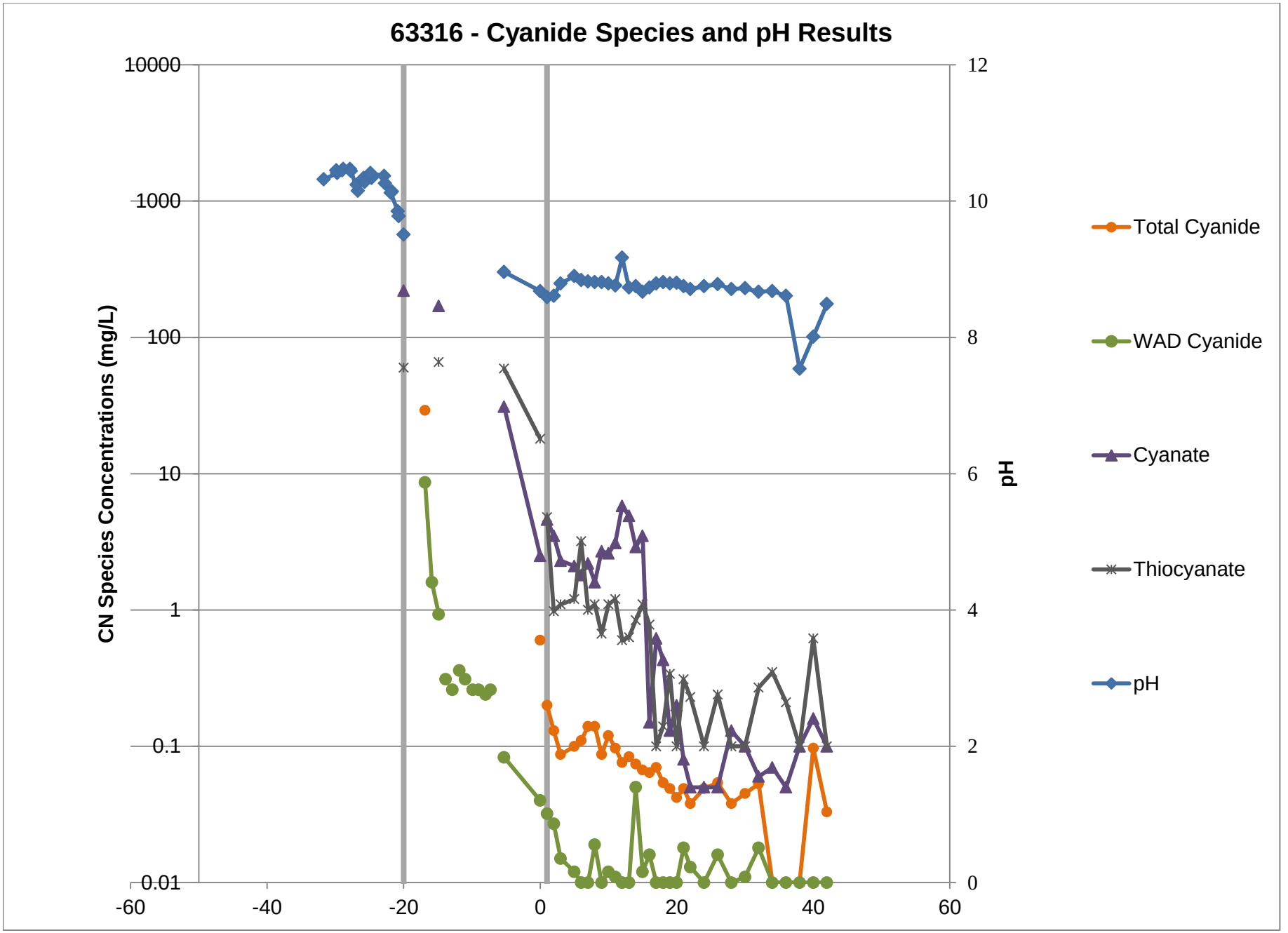

Leach Phase
Detox/Rinse Phase
HCT Phase
Ni (mg/L)
CN (T) mg/L
100
10
1
0.1
0.01
0.001
0.0001
0.00001
1000
100
10
1
0.1
0.01
0.001
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
2012/2013 Column Test CN
Hcol 7B - CN

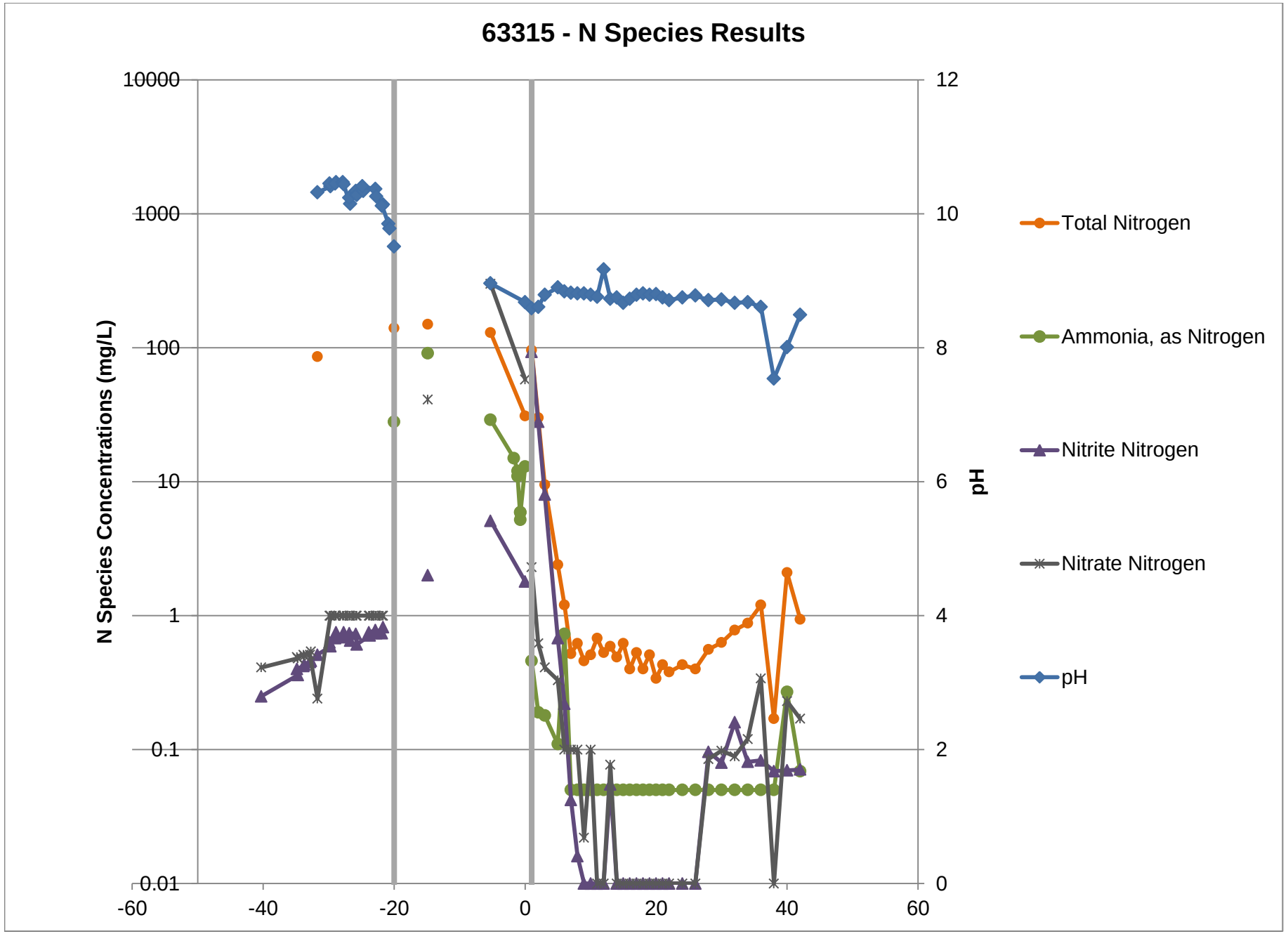

Leach Phase
Detox/Rinse Phase
HCT Phase
Ag (mg/L)
CN (T) mg/L
100
10
1
0.1
0.01
0.001
0.0001
0.00001
1000
100
10
1
0.1
0.01
0.001
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
2012/2013 Column Test CN
Hcol 7B - CN

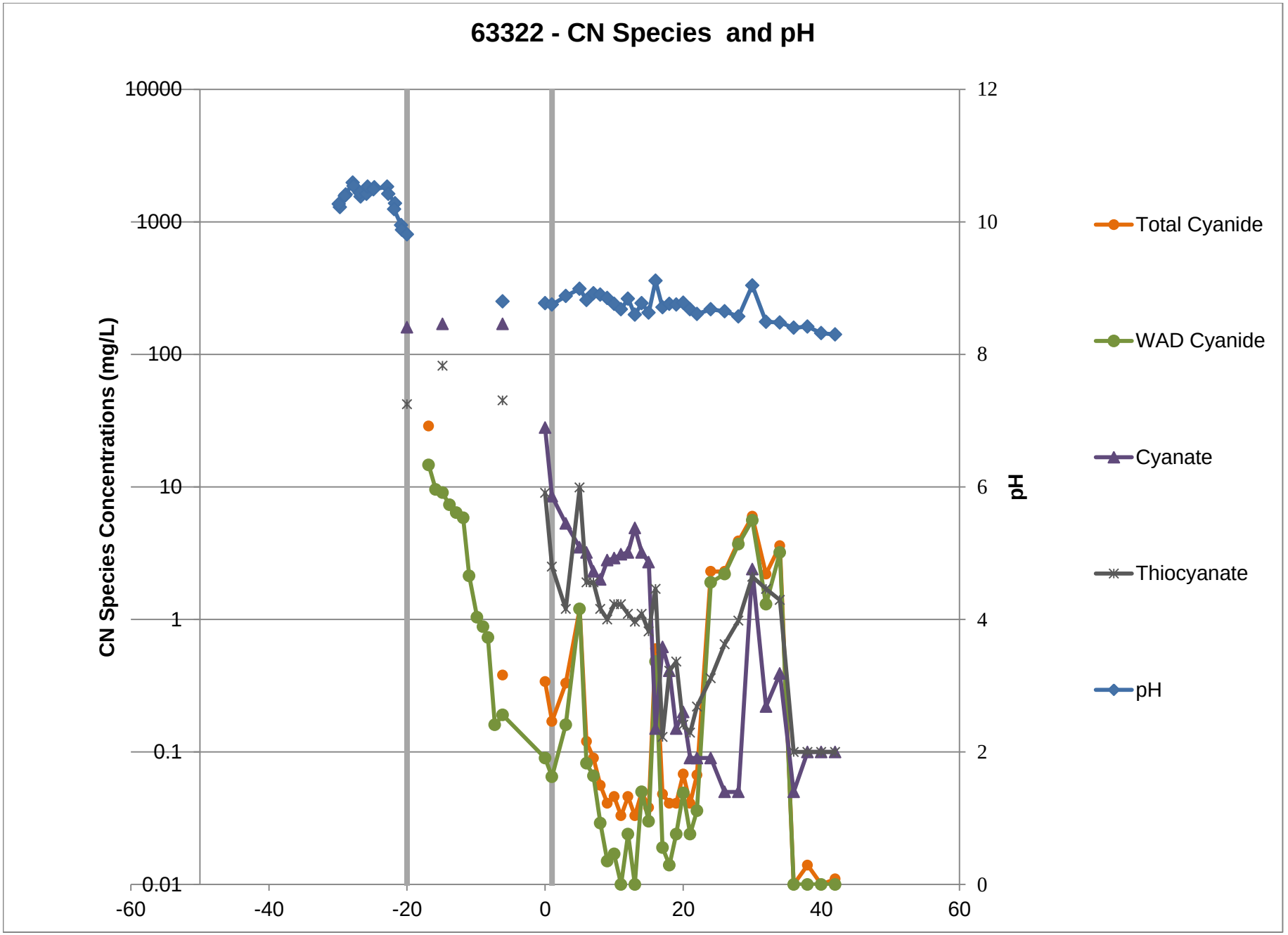

Leach Phase
Detox/Rinse Phase
HCT Phase
Zn (mg/L)
CN (T) mg/L
100
10
1
0.1
0.01
0.001
0.0001
0.00001
1000
100
10
1
0.1
0.01
0.001
-60
-40
-20
0
20
40
60
Start of Detox
Start of HCT
HCol 7B - 2009 Test
63301 - Biological Detox
63316 - Chem Detox
63322 - Chem Detox
2012/2013 Column Test CN
Hcol 7B - CN

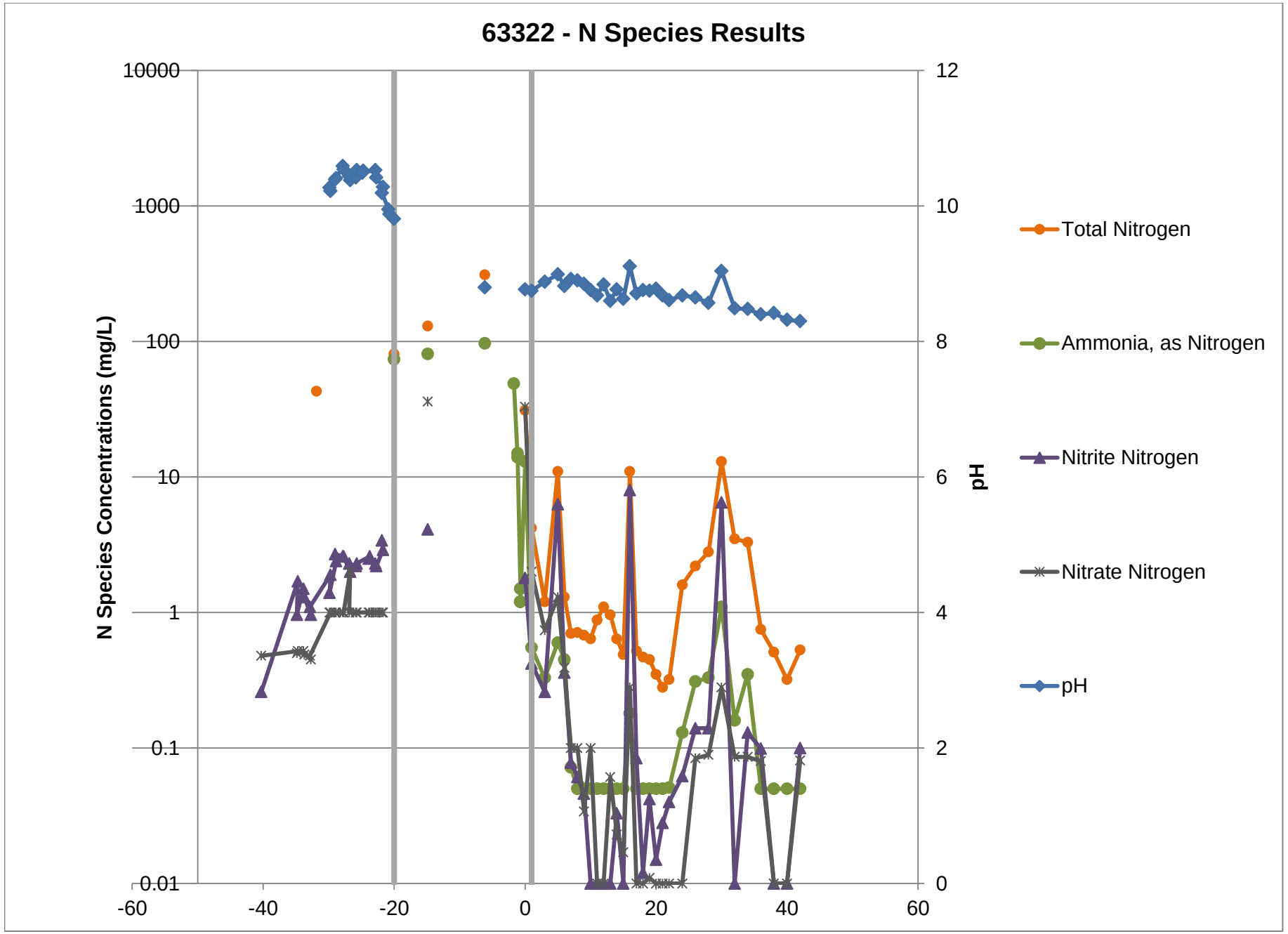

63301 - Cyanide Species and pH results
CN Species Concentrations (mg/L)
pH
10000
1000
100
10
1
0.1
0.01
12
10
8
6
4
2
0
-50
-40
-30
-20
-10
0
10
20
30
40
50
Total Cyanide
WAD Cyanide
Cyanate
Thiocyanate
pH


63301 - N Species Results
N Species Concentrations (mg/L)
pH
10000
1000
100
10
1
0.1
0.01
12
10
8
6
4
2
0
-50
-40
-30
-20
-10
0
10
20
30
40
50
Total Nitrogen
Ammonia, as Nitrogen
Nitrite Nitrogen
Nitrate Nitrogen
pH


63316 - Cyanide Species and pH Results
CN Species Concentrations (mg/L)
pH
10000
1000
100
10
1
0.1
0.01
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Total Cyanide
WAD Cyanide
Cyanate
Thiocyanate
pH


63315 - N Species Results
N Species Concentrations (mg/L)
pH
10000
1000
100
10
1
0.1
0.01
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Total Nitrogen
Ammonia, as Nitrogen
Nitrite Nitrogen
Nitrate Nitrogen
pH


63322 - CN Species and pH
CN Species Concentrations (mg/L)
pH
10000
1000
100
10
1
0.1
0.01
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Total Cyanide
WAD Cyanide
Cyanate
Thiocyanate
pH


63322 - N Species Results
N Species Concentrations (mg/L)
pH
10000
1000
100
10
1
0.1
0.01
12
10
8
6
4
2
0
-60
-40
-20
0
20
40
60
Total Nitrogen
Ammonia, as Nitrogen
Nitrite Nitrogen
Nitrate Nitrogen
pH

Appendix I3: Water Leach Extraction Test Concentration Table

Test : 24 Hour Nanopure Water Leach Extraction Test at 3:1 Liquid to Solid Ratio
Date : October 17, 2011
Summary Table

Sample ID:		Sulphate mg/L	Aluminum mg/L	Antimony mg/L	Arsenic mg/L	Copper mg/L	Iron mg/L	Lead mg/L	Molybdenum mg/L	Selenium mg/L	Uranium mg/L	Zinc mg/L
48125 A	0-20 cm	17	0.0888	0.0264	0.107	0.00147	0.024	0.000854	0.00987	0.00133	0.00606	0.0007
48125 B	20-40 cm	9	0.0967	0.0241	0.115	0.00171	0.029	0.000451	0.00778	0.00147	0.00691	0.0014
48126 C	40-60 cm	10	0.0869	0.0209	0.0851	0.00155	0.026	0.000317	0.00692	0.00124	0.00611	0.0008
48126 D	60-80 cm	7	0.0922	0.0187	0.0653	0.00142	0.026	0.000421	0.00621	0.00111	0.0057	0.0007
48127 E	80-100 cm	10	0.092	0.0163	0.0473	0.00074	0.02	0.000239	0.00574	0.00096	0.00542	0.0005
48127 F	100-120 cm	12	0.106	0.0153	0.0342	0.00081	0.022	0.000557	0.00524	0.00088	0.00431	0.002
48128 G	120-140 cm	15	0.0895	0.0135	0.0234	0.00116	0.016	0.000214	0.00455	0.00088	0.00387	0.0019
48128 H	140-160cm	25	0.083	0.0147	0.0289	0.00221	0.014	0.000162	0.00269	0.00093	0.00463	0.0009

Test : 24 Hour Nanopure Water Leach Extraction Test at 3:1 Liquid to Solid Ratio
Date : October 17, 2011

Sample ID		Volume Nanopure Water mL	Sample Weight g	pH	Redox mV	Conductivity uS/cm	Total Acidity (to pH 8.3) mg CaCO3/L	Alkalinity mg CaCO3/L	Sulphate mg/L	Major Anions meq/L	Major Cations meq/L	Difference meq/L	Balance (%) %	Hardness CaCO3 mg/L	Al mg/L	Sb mg/L
										Ion Balance					**Dissolved Metals**	
48125 A	0-20 cm	750	250	7.62	280	109	3.1	38.3	17	1.12	1.04	0.08	3.9%	46.7	0.0888	0.0264
48125 B	20-40 cm	750	250	7.82	261	94	2.7	42.2	9	1.03	0.94	0.09	4.4%	42	0.0967	0.0241
48126 C	40-60 cm	750	250	7.82	260	94	3.0	43.8	10	1.08	0.99	0.10	4.7%	43.8	0.0869	0.0209
48126 D	60-80 cm	750	250	7.83	261	90	3.1	41.5	7	0.98	0.92	0.06	3.2%	41.2	0.0922	0.0187
48127 E	80-100 cm	750	250	7.81	263	97	2.9	44.1	10	1.09	0.99	0.10	4.9%	45.2	0.092	0.0163
48127 F	100-120 cm	750	250	7.80	263	90	3.0	38.0	12	1.01	0.89	0.12	6.2%	40.5	0.106	0.0153
48128 G	120-140 cm	750	250	7.81	267	107	3.0	43.4	15	1.18	1.06	0.11	5.1%	49.3	0.0895	0.0135
48128 H	140-160cm	750	250	7.79	266	125	3.2	40.7	25	1.33	1.14	0.19	7.8%	53.2	0.083	0.0147
Blank	--	750	250	6.77	269	<1	2.6	1.8	<2	#N/A	#N/A	#N/A	#N/A	<0.5	0.0011	<0.00002

Sample ID		As mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Pb mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg ug/L	Mo mg/L	Ni mg/L	P mg/L
48125 A	0-20 cm	0.107	0.00516	<0.00001	0.000072	<0.05	0.000005	17.5	<0.0001	0.000201	0.00147	0.024	0.000854	0.0029	0.72	0.00129	<0.01	0.00987	0.00032	0.017
48125 B	20-40 cm	0.115	0.00458	<0.00001	0.000088	<0.05	0.000007	15.8	<0.0001	0.000197	0.00171	0.029	0.000451	0.0027	0.62	0.0013	<0.01	0.00778	0.00028	0.015
48126 C	40-60 cm	0.0851	0.00546	<0.00001	0.000075	<0.05	0.000009	16.5	<0.0001	0.000199	0.00155	0.026	0.000317	0.0023	0.61	0.002	<0.01	0.00692	0.00032	0.013
48126 D	60-80 cm	0.0653	0.00444	<0.00001	0.000075	<0.05	<0.000005	15.7	<0.0001	0.000169	0.00142	0.026	0.000421	0.0022	0.46	0.0018	<0.01	0.00621	0.00032	0.012
48127 E	80-100 cm	0.0473	0.00471	<0.00001	0.000057	<0.05	<0.000005	17.3	<0.0001	0.000144	0.00074	0.02	0.000239	0.0024	0.47	0.00203	<0.01	0.00574	0.00028	0.011
48127 F	100-120 cm	0.0342	0.00436	<0.00001	0.000061	<0.05	0.000011	15.6	<0.0001	0.000187	0.00081	0.022	0.000557	0.002	0.4	0.00158	<0.01	0.00524	0.00028	0.009
48128 G	120-140 cm	0.0234	0.00461	<0.00001	0.000043	<0.05	0.000007	18.9	0.0003	0.000211	0.00116	0.016	0.000214	0.0018	0.52	0.0019	<0.01	0.00455	0.00035	0.005
48128 H	140-160cm	0.0289	0.00833	<0.00001	0.000014	<0.05	0.000011	20.3	0.0003	0.000418	0.00221	0.014	0.000162	0.0021	0.61	0.00199	<0.01	0.00269	0.0004	0.004
Blank	--	<0.00002	0.00006	<0.00001	<0.000005	<0.05	<0.000005	<0.05	<0.0001	<0.000005	0.00103	<0.001	0.000006	<0.0005	<0.05	0.00007	<0.01	<0.00005	0.00006	<0.002

Sample ID		K mg/L	Se mg/L	Si mg/L	Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
48125 A	0-20 cm	2.65	0.00133	3.41	<0.000005	0.47	0.307	<10	0.000011	0.00003	0.0007	0.00606	0.001	0.0007	<0.0001
48125 B	20-40 cm	2.66	0.00147	4.03	<0.000005	0.44	0.297	<10	0.000008	0.00002	0.0011	0.00691	0.0021	0.0014	<0.0001
48126 C	40-60 cm	2.66	0.00124	3.7	0.000008	0.64	0.306	<10	0.000008	0.00002	0.0009	0.00611	0.0018	0.0008	<0.0001
48126 D	60-80 cm	2.38	0.00111	3.54	<0.000005	0.38	0.287	<10	0.000007	0.00003	0.0008	0.0057	0.0018	0.0007	<0.0001
48127 E	80-100 cm	2.15	0.00096	3.16	<0.000005	0.32	0.309	<10	0.000011	0.00003	0.0008	0.00542	0.0014	0.0005	<0.0001
48127 F	100-120 cm	1.92	0.00088	2.67	<0.000005	0.32	0.266	<10	0.000009	0.00002	0.0009	0.00431	0.0012	0.002	<0.0001
48128 G	120-140 cm	1.87	0.00088	1.97	<0.000005	0.35	0.262	<10	0.000012	0.00004	0.0005	0.00387	0.0007	0.0019	<0.0001
48128 H	140-160cm	1.8	0.00093	1.6	<0.000005	0.38	0.294	<10	0.00001	0.00003	0.0007	0.00463	0.0007	0.0009	<0.0001
Blank	--	<0.05	<0.00004	<0.1	<0.000005	<0.05	<0.00005	<10	<0.000002	0.00008	<0.0005	<0.000002	<0.0002	0.0005	<0.0001

Test : 96 Hour Nanopure Water Leach Extraction Test at 3:1 Liquid to Solid Ratio
Date : November 14-18, 2013

Sample ID		Volume Nanopure Water mL	Sample Weight g	96-hour pH (Unfiltered)	Titration pH	Redox mV	Conductivity uS/cm	Acidity (to pH 4. mg CaCO3/L	Total Acidity (to mg CaCO3/L	Alkalinity mg CaCO3/L	TDS mg/L	Chloride mg/L	Fluoride mg/L	Total CN mg/L	Ammonia (mg/L
63301	(Top - 20cm)	1200	400	7.49	7.79	359	110	#N/A	2.1	44.2	100	<0.50	0.076	0.0225	0.014
63301	(40cm - 60cm)	1200	400	8.06	7.94	360	93	#N/A	2.1	41.6	78	<0.50	0.091	0.0132	0.0081
63301	(80cm - 100cm)	1200	400	8.19	8.06	370	111	#N/A	1.8	51.5	136	<0.50	0.11	0.0129	0.023
63301	(120cm - Bottom)	1200	400	8.36	8.60	356	153	#N/A	#N/A	70.5	170	<0.50	0.15	0.0245	0.011
63316	(Top - 20 cm)	1200	400	7.95	7.93	349	130	#N/A	1.9	38.7	110	<0.50	0.11	0.0196	0.013
63316	(40cm - 60cm)	1200	400	8.08	7.92	383	114	#N/A	2.0	38.9	110	<0.50	0.12	0.0359	0.011
63316	(80cm - 100cm)	1200	400	8.57	8.21	358	147	#N/A	0.9	57.1	92	<0.50	0.16	0.0158	0.019
63316	(120cm - Bottom)	1200	400	8.54	8.71	352	175	#N/A	#N/A	71.8	158	<0.50	0.18	0.00631	0.039
Blank	**--**	1200	-	5.98	6.55	384	<1	#N/A	1.4	0.8	10	<0.50	0.011	0.00083	0.0082

Nitrate (N) mg/L	Sulphate mg/L	Major Anions meq/L	Major Cations meq/L	Difference meq/L	Balance (%) %	Hardness CaCO3 mg/L	Al mg/L	Sb mg/L	As mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L
<2.0	10	1.10	1.31	-0.21	-8.9%	60	0.0882	0.0288	0.0545	0.00604	<0.00001	0.000094	<0.05	0.00001	21.1	<0.0001	0.000269	0.000852	0.0363
<2.0	6	0.96	0.94	0.02	1.2%	35.2	0.11	0.035	0.0917	0.00487	<0.00001	0.000284	<0.05	0.00001	11.7	<0.0001	0.00019	0.000811	0.0548
<2.0	6	1.16	1.23	-0.07	-3.0%	24.6	0.186	0.0383	0.176	0.00434	<0.00001	0.00041	<0.05	0.000015	8.27	<0.0001	0.000179	0.000536	0.0529
<2.0	7	1.56	1.85	-0.29	-8.5%	7.06	0.442	0.0544	0.527	0.00347	0.000024	0.00148	<0.05	0.000054	2.45	0.00017	0.000251	0.00164	0.145
<2.0	23	1.26	1.23	0.03	1.0%	54	0.0614	0.0259	0.0552	0.0071	<0.00001	0.000053	<0.05	0.000011	19.1	<0.0001	0.000316	0.00654	0.0203
<2.0	15	1.10	1.13	-0.04	-1.7%	42.9	0.08	0.0311	0.0982	0.00542	<0.00001	0.000065	<0.05	0.000014	14.7	<0.0001	0.000246	0.00127	0.0242
<2.0	13	1.42	1.69	-0.27	-8.7%	14.2	0.208	0.0335	0.358	0.00337	<0.00001	0.000682	<0.05	0.000027	5.1	<0.0001	0.000261	0.00137	0.0696
<2.0	11	1.68	2.05	-0.38	-10.1%	4.24	0.288	0.0365	0.411	0.00207	0.000013	0.000988	<0.05	0.000034	1.53	<0.0001	0.000315	0.00186	0.0802
<2.0	2	#N/A	#N/A	#N/A	#N/A	<0.50	0.0013	<0.00002	<0.00002	0.000197	<0.00001	<0.000005	<0.05	<0.000005	<0.050	<0.0001	<0.000005	0.000235	<0.001

Pb mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg ug/L	Mo mg/L	Ni mg/L	P mg/L	K mg/L	Se mg/L	Si mg/L	Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
0.000692	0.00382	1.8	0.00647	<0.0020	0.000915	0.000133	0.0179	2.12	0.000664	2.61	<0.000005	1.02	0.396	4.8	0.00001	<0.0002	0.00059	0.00356	0.00091	0.00067	<0.0001
0.0021	0.00611	1.44	0.00179	<0.0020	0.00419	0.000231	0.0242	5.18	0.000937	3.7	<0.000005	1.91	0.224	<3.0	0.000014	<0.0002	0.00149	0.00252	0.00128	0.00113	<0.0001
0.00537	0.00771	0.953	0.0018	0.0036	0.00344	0.000159	0.132	6.56	0.00111	5.09	0.000007	12.5	0.13	<3.0	0.000016	<0.0002	0.002	0.00304	0.00205	0.00106	0.00022
0.022	0.0031	0.226	0.00412	0.003	0.00125	0.000614	0.201	2.36	0.00256	8.14	0.000018	36.2	0.029	<3.0	0.000021	<0.0002	0.00358	0.00417	0.00585	0.00324	0.00079
0.000438	0.00375	1.49	0.00625	<0.0020	0.00109	0.000135	0.0095	2.4	0.000983	2.4	0.000006	1.84	0.35	9.6	0.000008	<0.0002	<0.0005	0.00299	0.00068	0.00048	<0.0001
0.000675	0.00621	1.53	0.00587	<0.0020	0.000703	0.000236	0.0418	5.41	0.00102	3.5	0.000005	2.68	0.329	6.1	0.000016	<0.0002	0.00066	0.00393	0.00118	0.00131	<0.0001
0.0109	0.00544	0.366	0.00307	0.0029	0.000722	0.000549	0.0581	5	0.00216	5.54	0.000013	28.5	0.0808	6.7	0.000019	<0.0002	0.00261	0.00574	0.00315	0.00219	0.00022
0.0132	0.0029	0.103	0.00258	0.0034	0.000732	0.000278	0.222	2.64	0.00217	5.45	0.000024	42.6	0.0232	5.9	0.000017	<0.0002	0.00269	0.00555	0.00416	0.00197	0.00055
0.000021	<0.0005	<0.050	0.000085	<0.0020	<0.00005	<0.00002	<0.002	<0.050	<0.00004	<0.1	<0.000005	<0.050	0.000052	<3.0	<0.000002	<0.0002	<0.0005	<0.000002	<0.0002	0.00035	<0.0001

Test : Rinse pH, Rinse EC
Date : November 19, 2013

Sample ID	Rinse pH Std. Units	Rinse EC µS/cm
Method Code	Sobek	Sobek
LOD	0.20	1
63301 (Top - 20 cm)	7.84	164.9
63301 (20 cm - 40 cm)	7.75	101.5
63301 (40 cm - 60 cm)	7.82	115.2
63301 (60 cm - 80 cm)	7.94	123.8
63301 (80 cm - 100 cm)	8.23	136.1
63301 (100 cm - 120 cm)	8.76	188.5
63301 (120 cm - Bottom)	8.79	247
63316 (Top - 20 cm)	7.86	231
63316 (20 cm - 40 cm)	7.85	208
63316 (40 cm - 60 cm)	7.87	254
63316 (60 cm - 80 cm)	7.99	272
63316 (80 cm - 100 cm)	8.48	268
63316 (100 cm - 120 cm)	8.72	279
63316 (120 cm - Bottom)	8.83	318
63322 (Top - 20 cm)	7.83	333
63322 (20 cm - 40 cm)	7.80	297
63322 (40 cm - 60 cm)	7.88	283
63322 (60 cm - 80 cm)	7.93	296
63322 (80 cm - 100 cm)	8.24	347
63322 (100 cm - 120 cm)	8.67	415
63322 (120 cm - 140 cm)	8.84	406
Duplicates		
63301 (20 cm - 40 cm)	7.94	108.6
63322 (Top - 20 cm)	7.88	352