Mineral	**04ARD 126-015**	**04ARD 137-013**	**04 ARD 159-010**	**04ARD 171-015**	**I-3**	**I-4**	**II-10**	**II-12**
Vermiculite 2M	26.7		19.1		25.6	24.7	27.9	28.9
Clinochlore II	30.5	42.1	14.8	30.0	25.5	25.4	31.0	26.6
Talc 1A	25.3		21.0		27.6	27.9	19.0	21.6
Phlogopite 1M	7.0	31.9	7.6	20.1	5.9	6.1	8.9	5.4
Actinolite	3.5		3.7		4.9	4.2		2.2
Microcline intermediate	2.9		23.6					7.7
Quartz			3.7		3.3	4.2	1.6	2.9
Orthoclase			3.7		4.5	4.5	4.7	
Hematite			0.6					3.5
Lizardite	?	13.0	2.2	8.0	?	?	5.4	
Forsterite		minor?		31.5				
Pectolite 1A		11.9		8.0				
Monticellite		0.5		1.9				
Perovskite		0.6		0.5				
Dolomite					0.9	1.1	0.2	0.3
Calcite					1.8	1.8	1.4	1.0
Rutile	0.5							
Titanite	1.8							
Natrolite	1.7							
Anatase?								
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 1. Results of semi-quantitative phase analysis (wt. %) - PSA 653

Mineral	**II-13**	**II-17**	**II-18**	**III-1**	**IV1+ IV2**	**V1+V2**	**VI-1**	**VIII-1**
Vermiculite 2M	26.0	26.6	24.2	19.7	18.7	16.9	20.3	20.3
Clinochlore II	34.2	21.3	24.5	28.4	30.3	31.2	23.8	30.9
Talc 1A	25.6	22.1	22.3	19.3	15.9	17.0	18.5	10.6
Phlogopite 1M	8.8	8.1	13.0	10.6	11.3	10.7	9.5	13.0
Actinolite				2.7			4.7	
Microcline intermediate								
Quartz		1.3		2.0	2.5	2.3	4.3	1.0
Orthoclase	3.1	3.1	1.7	2.6	3.0	3.9	3.7	2.8
Hematite					0.5	0.4	0.3	
Lizardite		14.6	10.4	9.2	10.6	10.6	8.9	13.1
Forsterite			1.0	2.5	4.1	4.0	2.2	4.8
Pectolite 1A								0.8
Monticellite			97.0					
Perovskite								
Dolomite	0.3	2.1	0.0	0.4	1.2	0.4	0.9	
Calcite	1.0	0.8	1.9	2.0	1.9	2.3	2.1	2.1
Rutile	1.0		0.5	0.6		0.4	0.8	0.6
Titanite								
Natrolite								
Anatase?			0.7					
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 1 (continued). Results of semi-quantitative phase analysis (wt. %) - PSA 653

Sample: 04-ARD-126-015 **01**

Hand Sample Description:
Poorly sorted powder made essentially of gravel sized fragments of dark to greenish mafic rock locally displaying w hite dull patches of ?clay (approx. 10%).
Not magnetic. No reaction with dilute HCl. No stain with sodium cobaltinitrite.

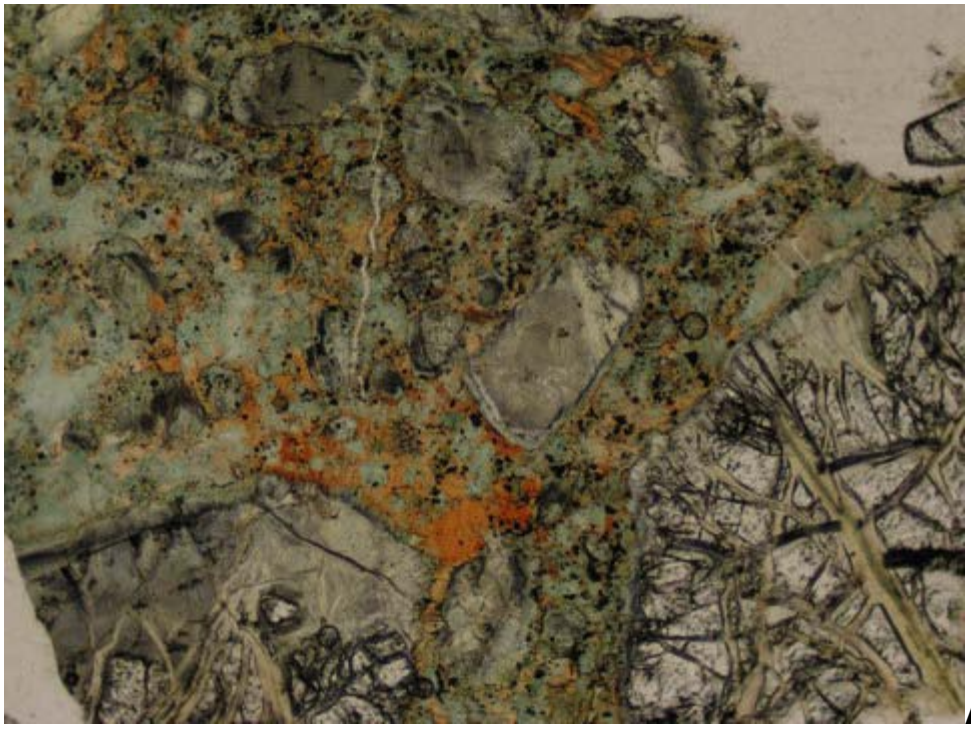
Thin Section Description:
Fragments mostly consist of a fine-grained groundmass of biotite and chlorite that contains fine olivine grains throughout and disseminated extremely fine titanite and rutile. Olivine grains typically display irregular fractures and are variously altered by serpentine, preferentially developing along fractures and grain boundaries.

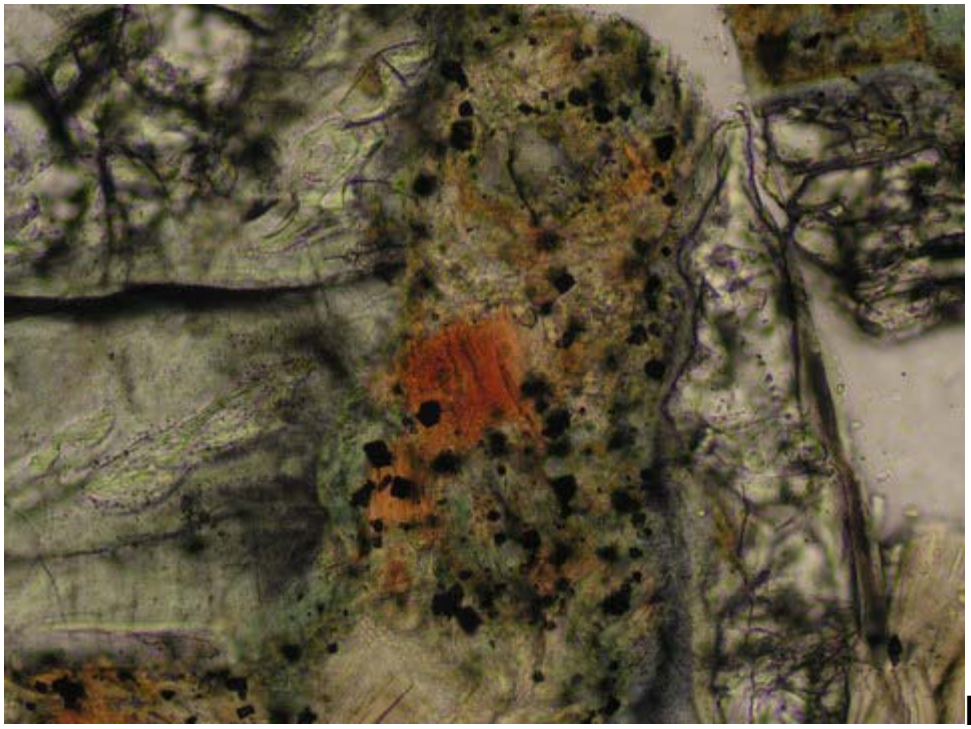
MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Biotite	30	Deep brown, fine to very fine-grained, fibrous, intermixed with chlorite to form the groundmass of most fragments and containing disseminated olivine and serpentine-altered olivine. Locally as partially preserved, fresh-looking hexagonal sections	*Sg brown pleo.*
Chlorite	30	Extremely fine-grained clusters intermixed with shreddy biotite to form the groundmass of numerous fragments	*Green pleo.*
Olivine	20	Fine anhedral grains throughout, commonly with irregular fractures. Clay and serpentine alteration occur preferentially along these fractures and along grain boundaries but commonly replaces entire olivine grains	*High biref*
Serpentine	15	Very fine-grained clots locally preserving cores of olivine; granular to locally fibrous, in fan-like masses	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
?titanite	04	Extremely fine grains (<30 µm) disseminated within the biotite-chlorite groundmass, commonly wedge- or diamond-shaped	*High relief, high biref*
?Rutile	tr	Extremely fine grains associated with titanite. Difficult to dissociate from titanite due to the very fine grain-size	





04-ARD-126-015: A) Representative view of the sample showing the brown and green biotite-chlorite groundmass with subrounded, fractured grains of olivine variously replaced by serpentine. PPL, FOV = ~2.5 mm.
B) Detailed view showing disseminated very fine grains of ?titanite and rutile. PPL, FOV = ~0.6 mm.

Sample: 04-ARD-137-013 **02**

Hand Sample Description:
Similar to 04-ARD-126-015. Poorly sorted powder made essentially of gravel sized fragments of greenish to dark mafic rock commonly displaying white dull patches of ?clay (approx. 30-40%).
Trace magnetic fragments. No reaction with dilute HCl. No stain with sodium cobaltinitrite.

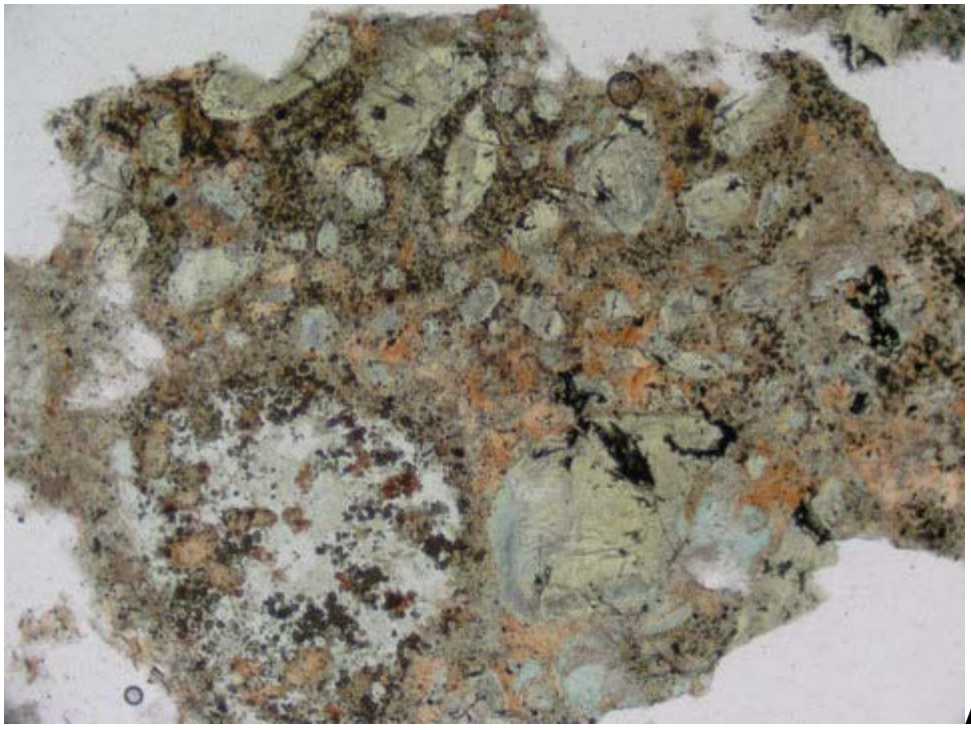
Thin Section Description:
The section is similar to the previous one, characterized by more intense alteration. Olivine grains are typically completely replaced by serpentine and the chlorite-biotite matrix is locally replaced by a very fine-grained undetermined groundmasss (?Pectolite, suggested by XRD) and rutile. Epidote-clinozoisite also occurs in the groundmass at the expense of titanite. Trace magnetite and pyrite also occur.

MAJOR MINERALS

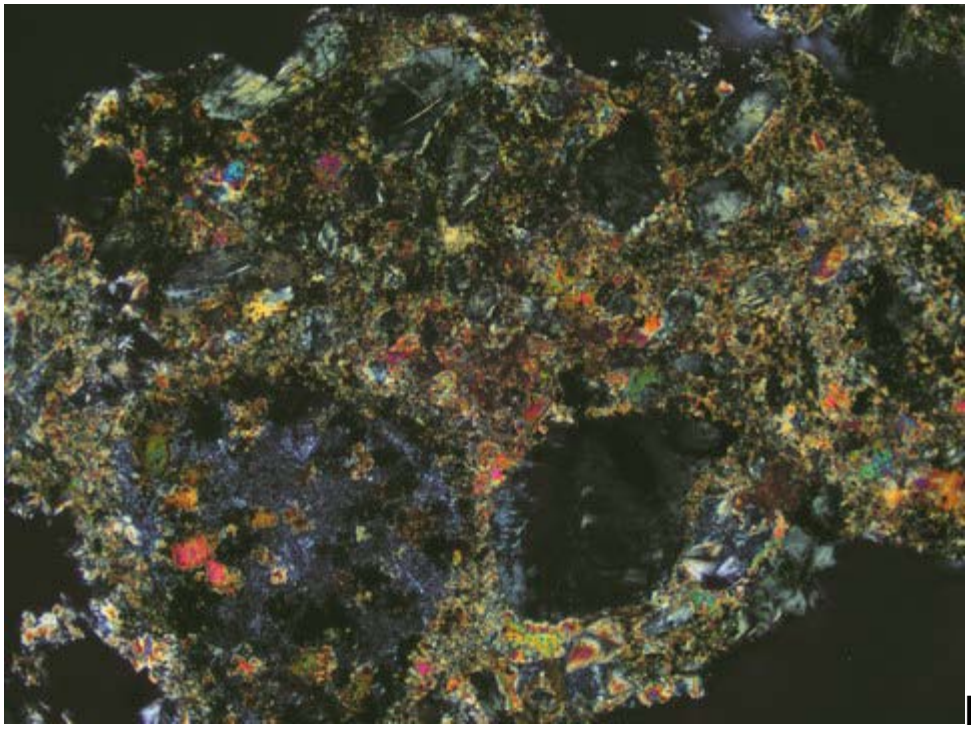
Mineral	%	Distribution & Characteristics	Optical
Chlorite	30	Extremely fine-grained clusters intermixed with biotite to form the matrix of most fragments	*Green pleo.*
Biotite	20	Deep brown, fine to extremely fine-grained, fibrous, intermixed with chlorite to form the matrix of most fragments.	*Sg brown pleo.*
Serpentine	20	Very fine-grained clots locally preserving cores of olivine; granular to locally fibrous, in fan-like masses.	
Groundmass	15	Dark brown to opaque, extremely fine-grained, occurs as matrix of some fragments and in masses throughout, likely ?replacing the biotite-chlorite matrix	
Olivine	05	Fine anhedral grains throughout, commonly with irregular fractures and strongly altered by serpentine. Alteration preferentially starts along these fractures and along grain boundaries but commonly replaces entire olivine grains	*High biref*

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
?Titanite	02	Extremely fine grains (<30 µm) disseminated within the biotite-chlorite groundmass, commonly wedge- or diamond-shaped	*High relief, high biref*
Unknown	02	Extremely fine needles grains locally associated with titanite. Difficult to dissociate from titanite due to the very fine grain-size	*Opaque*
?Rutile	02	Extremely fine-grained rounded clusters throughout	*Ab, white IR*
Magnetite	tr	Fine to very fine grains and clusters throughout	
Pyrite	tr	One very fine elongated mass	



A



B

04-ARD-137-013: Representative view of the sample showing the very fine matrix of biotite, chlorite and oxides, partly altered by an undetermined groundmass and containing subrounded olivine extensively replaced by serpentine. A) PPL, B) XPL, FOV = ~ 2.5 mm.

Sample: 04-ARD-139-004 **03**

Hand Sample Description:
Poorly sorted powder made essentially of gravel-sized fragments of granitic rock, containing medium-grained pinkish K-feldspars (55% based on stain with sodium cobaltinitrite), plagioclase (5%) and quartz (20%) as well as greenish to dark mafic minerals (15%). Not magnetic. No reaction with dilute HCl.

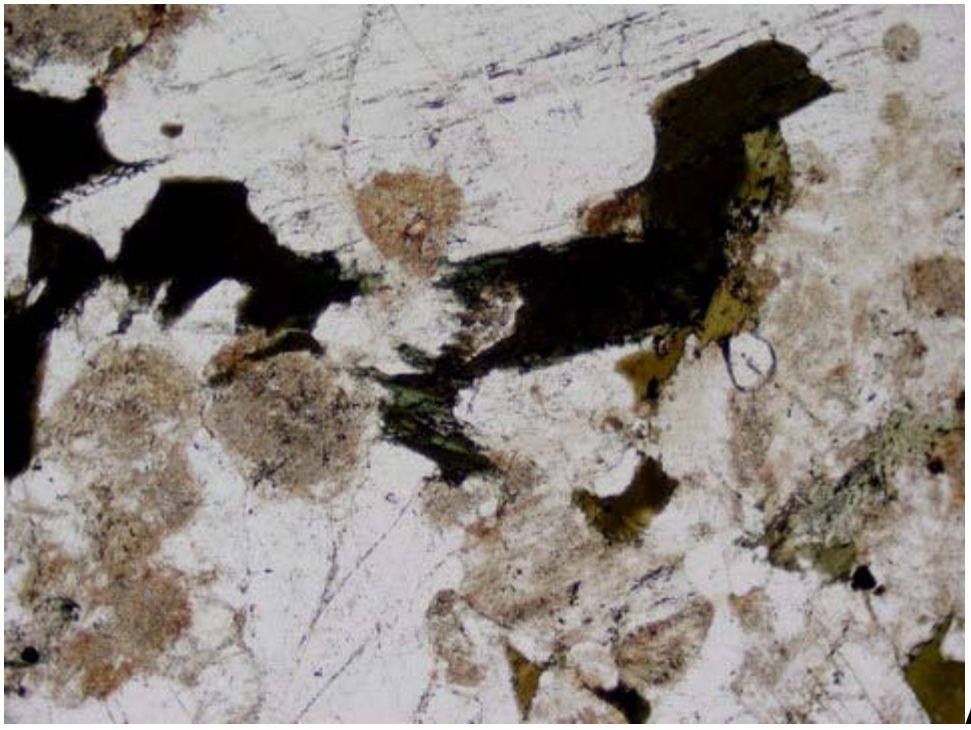
Thin Section Description:
Fine-grained fragments of granite and broken granite-forming minerals form the section. K-feldspar and quartz are dominant while biotite, muscovite and plagioclase occur in lesser amounts.
Alteration is marked by the development of secondary K-feldspar and lesser muscovite-sericite, at the expense of primary feldspars. Oxidation occurs, characterized by a deep red hematite stain throughout and by aggregates of ilmenite-hematite-rutile replacing primary unpreserved grains. Development of (Fe, Ti) oxides within biotite also occurs.
Rare very fine ?pyrite and magnetite were also observed.

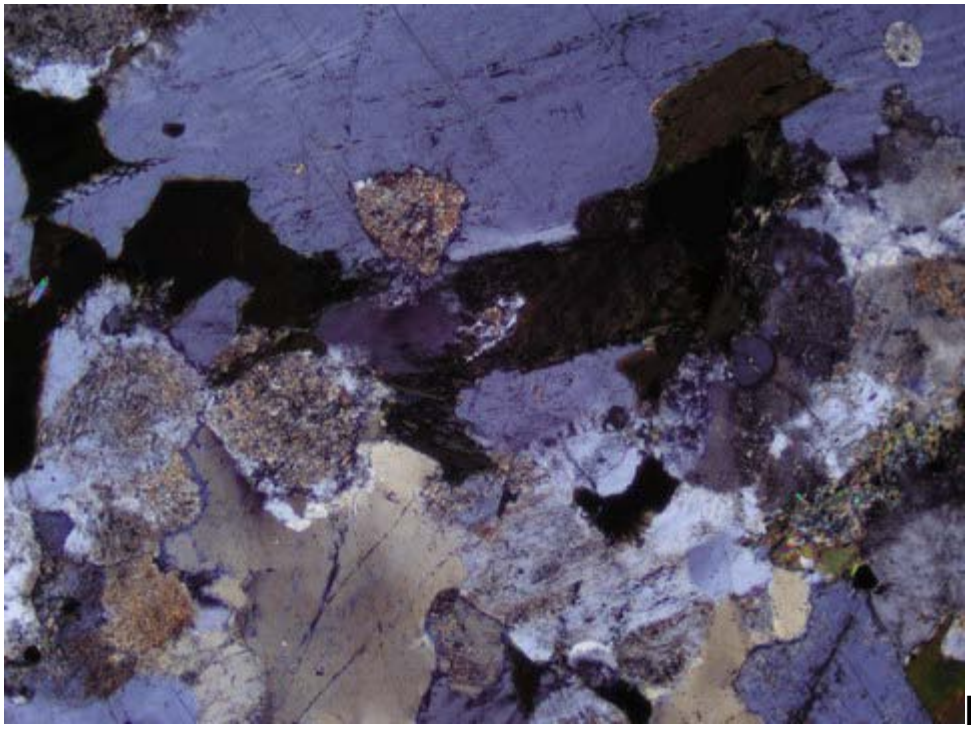
MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
K-feldspar	60	2 types: - fresh, primary tabular grains commonly displaying a cross-hatched twin pattern. Dominant type - grungy brown patches characteristic of secondary K-feldspar alteration within primary feldspars and associated with muscovite-sericite	
Quartz	20	Fine anhedral grains, clusters and subangular fragments. Characterized by lobate grain boundaries and bulging indicative of recrystallization	
Biotite	10	Fine tabular and foliated grains, associated with muscovite in fragments commonly with very fine elongated clusters of (Fe, Ti) oxides	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Plagioclase	03	Rare partially preserved tabular grains and fragments with albite twinning	
Muscovite-sericite	02	2 types: - Fine sheaves associated with biotite - Very fine-grained sheaves associated with secondary K-feldspar as result of alteration	
(Fe,Ti) oxides	01	Fine commonly skeletal grains of intermixed ilmenite and hematite, associated with rutile. Also as very thin elongated clusters within biotite. Hematite also occurs as stain throughout.	
Chlorite	01	Fine tabular, foliated grains likely as replacement of primary biotite	
?Pyrite	tr	Trace very fine grains, locally rimmed by (Fe, Ti) oxides	
Magnetite	tr	One fine subrounded grain	





04-ARD-139-004: Representative view of the sample showing part of a granitic fragment containing sericite-altered K-feldspar, quartz and biotite. A) PPL, B) XPL, FOV = ~ 2.5 mm.

Sample: 04-ARD-159-010 **04**

Hand Sample Description:
Poorly sorted powder made essentially of gravel sized lithic fragments of various natures, dominated by fragments of white, dull and soft clay (70%). Contains approx. 10% fragments that stained yellow with sodium cobaltinitrite (K-feldspar) and 5% deep red stained fragments (Fe-oxides).
Rare magnetic fragments. No reaction to dilute HCl.

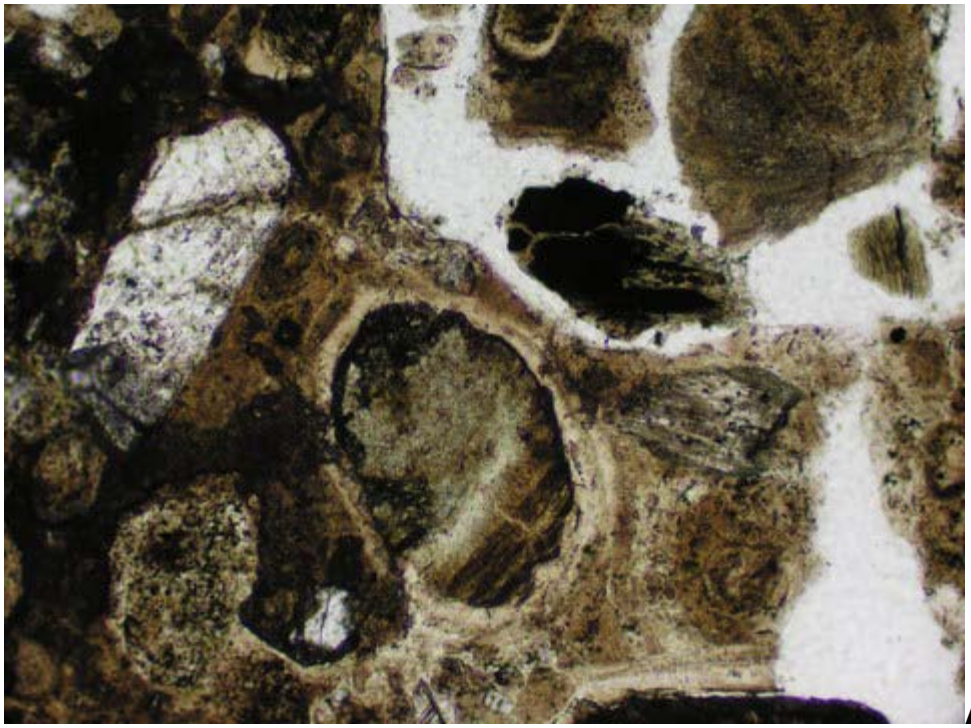
Thin Section Description:
Most fragments are made by extremely a fine-grained, grungy brown groundmass of clay, talc and chlorite (XRD), intermixed with various amounts of fine biotite ± chlorite ± (Fe, Ti) oxides, including ilmenite, hematite and rutile. Morphology suggests some olivine replacement. Fragments of K-feldspar, quartz and possible ?amphibole occur locally. Rare chalcopyrite, pyrite and magnetite grains also occur. One mass of carbonate was observed occurring with quartz.

MAJOR MINERALS

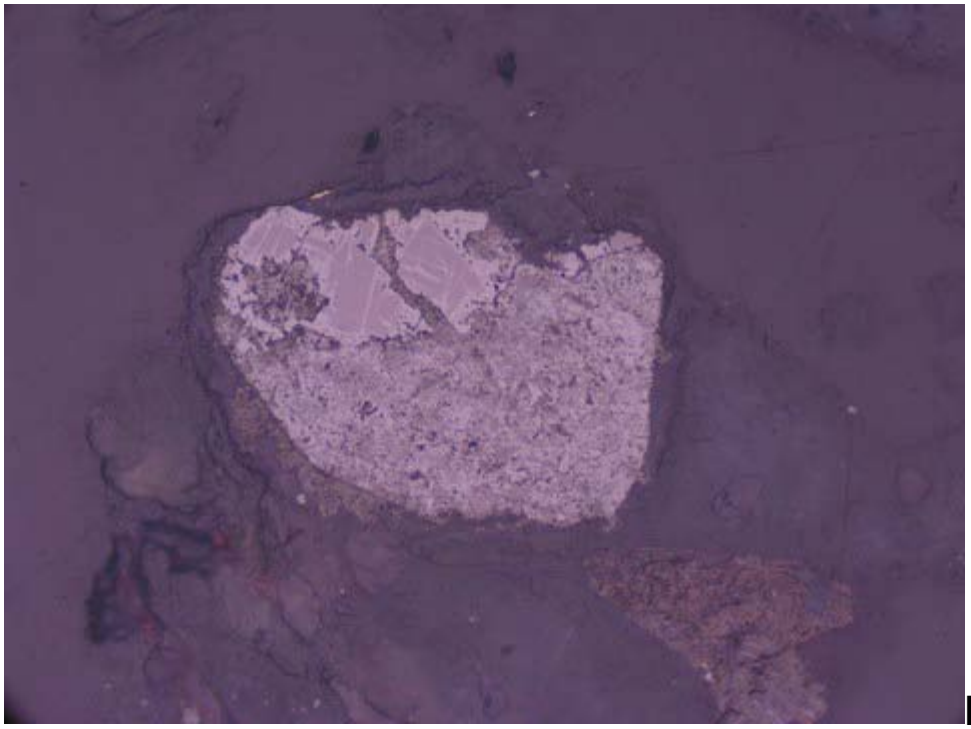
Mineral	%	Distribution & Characteristics	Optical
Groundmass	60	Extremely fine-grained grungy brown to opaque groundmass of most fragments, locally with subrounded outlines suggesting olivine replacement. Likely include several varieties (clay, talc and minor chlorite as suggested by XRD)	
K-feldspar	10	2 types: - Fine tabular grains and fragments typically with cross-hatched twinning fresh, - grungy brown alteration patches associated with clay and muscovite-sericite	
Biotite	05	Fine to very fine foliated grains, typically strongly corroded and replaced by chlorite ± (Fe, Ti) oxides	
Chlorite	05	Fine patches associated with (Fe, Ti) oxides and partially replacing biotite. Also as extremely fine-grained subrounded clusters (?after olivine)	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Quartz	03	Fine to very fine anhedral grains, clusters and subangular fragments	
Hematite	01	Stain and very fine grains throughout	*Red int. refl.*
Ilmenite	01	Lamellae within magnetite, ribbons with chlorite and extremely fine dissemination throughout	*Anisotropic*
Rutile	01	Very fine dissemination throughout	*White int. refl.*
Magnetite	tr	Few fine tabular grains, corroded and with ilmenite lamellae	*Isotropic*
Chalcopyrite	tr	Very fine subhedral grains	
Pyrite	tr	Very fine anhedral grains	
?Amphibole	tr	Rare fine remnant grains	*Weak pleo.*
Carbonate	tr	One fine patch associated with quartz and celadonite	



A



B

04-ARD-159-010: A) Representative view showing the dark groundmass of clay, talc and chlorite containing pseudomorphs after olivine. A) PPL, FOV = ~ 2.5 mm.
B) Detailed view of a grain of magnetite with ilmenite lamellae and partly replaced by hematite. RL, FOV = ~ 0.6mm.

Sample: 04-ARD-171-015 **05**

Hand Sample Description:
Poorly sorted powder made essentially of gravel sized lithic fragments essentially made of white, dull, and soft ?clay (70%) associated to approx. 15% greenish to black mafic minerals, 5% red-stained fragments and trace K-feldspar (stain with sodium cobaltinitrite). Fe-oxide stain throughout. Rare magnetic fragments (less than 1%). No reaction to dilute HCl.

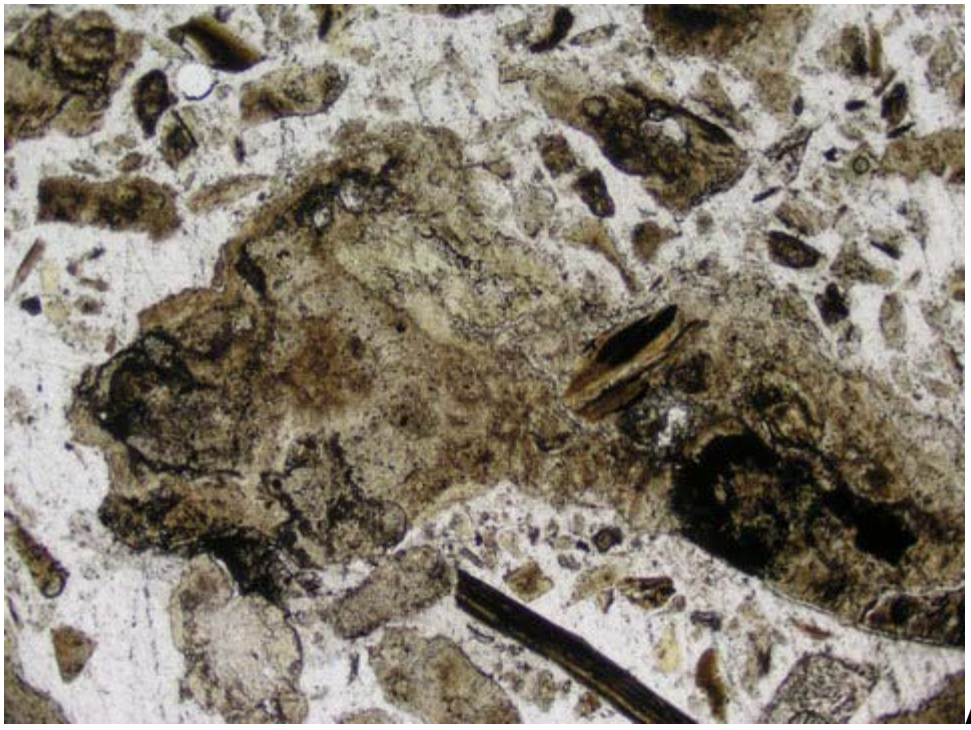
Thin Section Description:
The section is characterized by an extremely fine-grained patchy undetermined groundmass likely made of chlorite, biotite and olivine as suggested by PIMA. Dark brown, corroded grains of biotite occur disseminated and as coarser fragments. Locally serpentine pseudomorphs after olivine and fine grains of amphibole are preserved. Very fine chalcopyrite and perovskite occur disseminated. Hematite stains the sample.

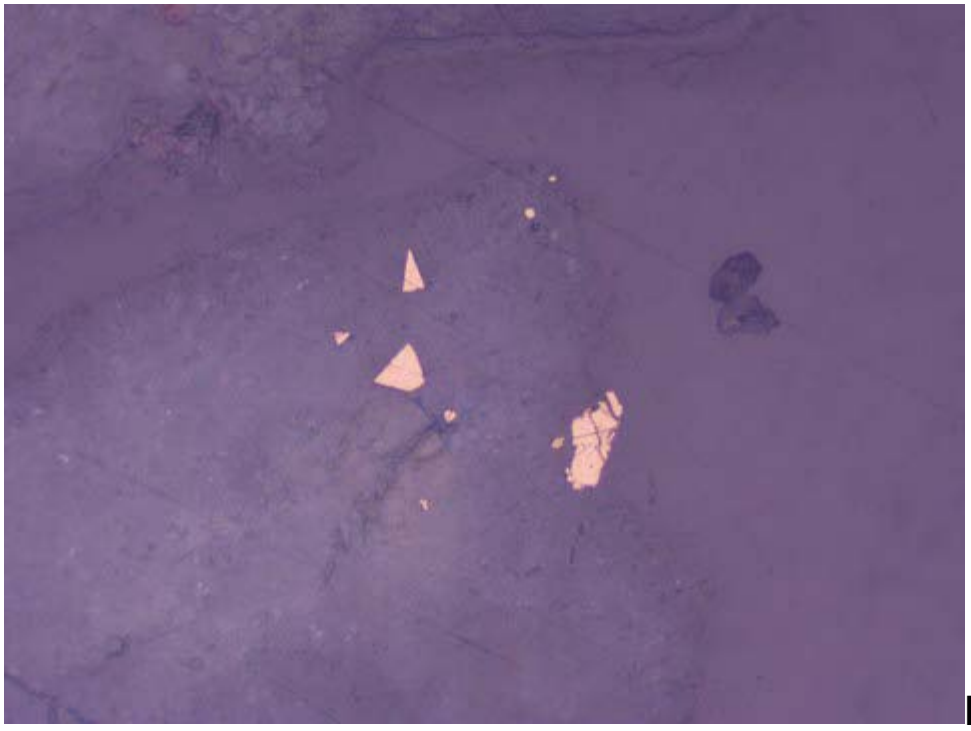
MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Groundmass	70	Extremely fine-grained matrix of most fragments intermixed with patches of chlorite	
Chlorite	15	Extremely fine-grained patches intermixed with groundmass	
Serpentine	05	Fine subrounded masses, pseudomorphing primary olivine	
Biotite	05	Fine foliated grains and fragments, dark brown to opaque, highly corroded, locally associated with rutile	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
?Amphibole	02	Fine subhedral, tabular grains in clusters. Altered and cloudy	*Weak color pleochroic 1st order δ*
?Olivine	tr-01	Fine-grained granular clusters	
Hematite	tr-01	Deep red stain throughout	*Deep red IR*
Perovskite	tr	Very fine grains throughout	*White IR*
Chalcopyrite	tr	Fine to extremely fine anhedral to subhedral grains	





04-ARD-171-015: A) Representative view of the sample showing fragments dominated by a brownish groundmass. PPL, FOV = ~ 2.5 mm.
B) Detailed view of the sample showing very fine grains of chalcopyrite. RL, FOV = ~ 0.6 mm.

Sample: 04-ARD-191-06/07/08/09 **06**

Hand Sample Description:
Poorly sorted powder made essentially of gravel sized lithic fragments of altered mafic rock containing approx. 50% fine, greenish to black minerals intermixed with 50% white, dull and soft ?clay. Less than 1% of the fragments strongly stained yellow with sodium cobaltinitrite indicating K-feldspar. Few magnetic fragments (<2%). No reaction to dilute HCl.

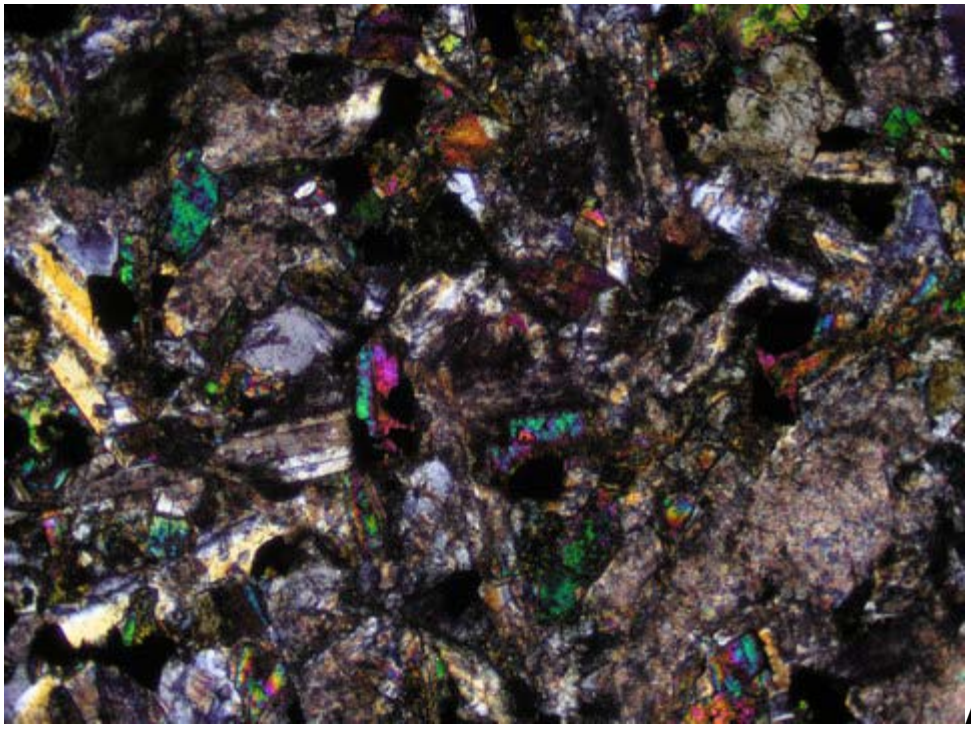
Thin Section Description:
The section differs from the previous ones, consisting mostly of altered, likely ?doleritic fragments. Tabular plagioclase, olivine, ?clinopyroxenes and commonly subhedral magnetite occur as main phases with interstitial quartz.
Alteration includes replacement of plagioclase by clay and replacement of clinopyroxenes by a fine mixture of chlorite and biotite. Magnetite is typically strongly corroded.
Trace pyrite, chalcopyrite and possible pyrrhotite were observed as fine anhedral grains, while carbonate is absent.

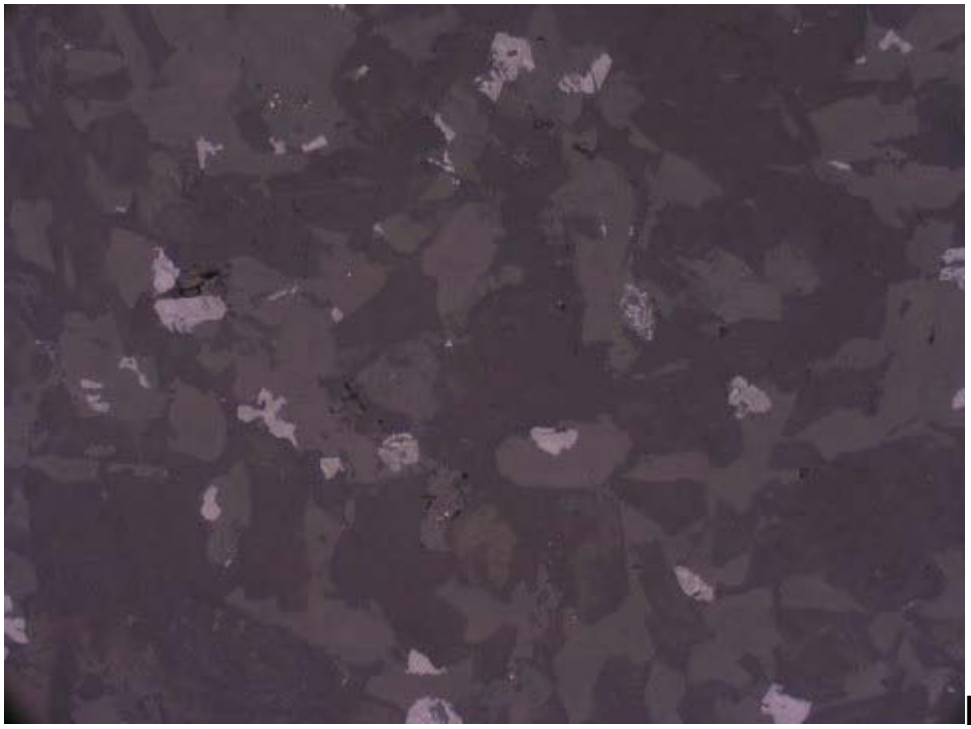
MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Clay	40	Very fine-grained alteration of ?plagioclase within fragments and groundmass within frgaments	
Plagioclase	20	Fine tabular to slender grains, locally with albite or Carlsbad twinning. Commonly altered to clay	
?Clinopyroxene	10	Fine tabular grains, commonly altered by very fine-grained masses of biotite +chlorite	*High δ Ob, extension Simple twin*
Olivine	10	Fine subrounded grains throughout	
Magnetite	05	Fine anhedral to subhedral grain, extremely corroded and pitted. Occurs within fragments, commonly with lamellar texture or intergrown in a vermicular way with the minerals surrounding it (symplectite)	
Biotite	05	Very fine-grained patches associated with chlorite within fragments	
Chlorite	05	Very fine-grained patches associated with biotite within fragments	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Quartz	02	Fine masses interstitial to plagioclase and clinopyroxenes	
Pyrite	tr	Fine anhedral masses throughout	*Isotropic*
?Pyrrhotite	tr	Fine anhedral to subhedral grains and masses	*Weak aniso. greenish to reddish*
Chalcopyrite	tr	Fine to extremely fine anhedral grains and masses	
K-feldspar	tr	Indicated by stain. Likely alteration of plagioclase	





04-ARD-191-06/07/08/09: Representative view of the sample showing essentially tabular grains of clay-altered plagioclase and clinopyroxene with anhedral magnetite A) PPL, B) RL, FOV = ~ 2.5 mm.

Sample: 04-ARD-199-002 **07**

Hand Sample Description:
Similar to 04-ARD-139-004, characterized by a higher amount of colorless and mafic minerals at the expense of K-feldspar: Approximately 35% K-feldspar (stained yellow with sodium cobaltitrinite), 35% quartz, 20% white to pinkish plagioclase, as well as 10% greenish to dark mafic minerals. Trace magnetic fragments. No reaction with dilute HCl.

Thin Section Description:
The sample is similar to 04-ARD-139-004 formed by fine-grained fragments of granite and broken granite-forming minerals. K-feldspar and quartz are dominant while plagioclase and biotite occur in lesser amounts.
Alteration is weaker than in 04-ARD-139-004, marked essentially by the development of muscovite-sericite while secondary K-feldspar is rare. Trace carbonate locally occurs within feldspars. Some replacement of biotite by chlorite and / or epidote-clinozoisite also occurs. Magnetite is disseminated, weakly replaced by ilmenite. Grains of monazite and pyrite were also observed.

MAJOR MINERALS

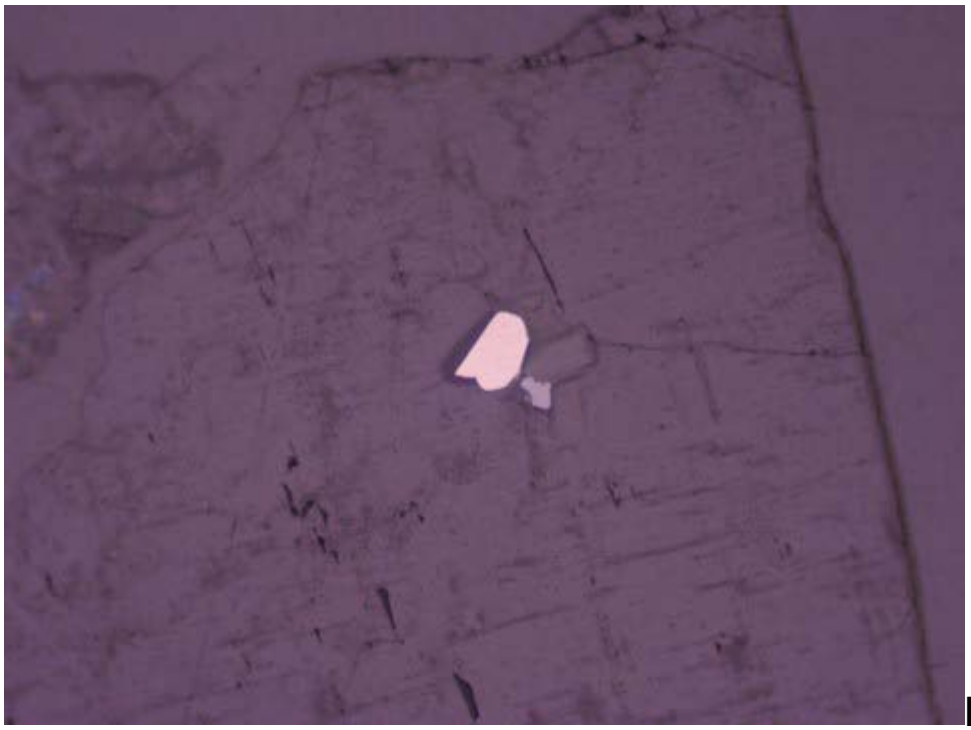
Mineral	%	Distribution & Characteristics	Optical
Quartz	35	Fine anhedral grains and subangular fragments	
K-feldpsar	35	Fine tabular primary grains and fragments, typically with crosshatched twinning. Locally as grungy brown alteration of feldspars	
Plagioclase	20	Fine anhedral to subhedral grains and subangular fragments displaying albite twinning, commonly weakly pitted by sheaves of muscovite-sericite	
Biotite	10	Fine tabular foliated grains and fragments	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Muscovite-sericite	02	Very fine sheaves weakly replacing feldspars	
Chlorite	02	Fine tabular to anhedral grains partly pseudomorphing biotite	
Magnetite	01	Fine subhedral grains, commonly rimmed by or with lamellae of ilmenite	
?Epidote-clinozoisite	tr	Fine granular masses associated with biotite	*High relief, high biref*
Carbonate	tr	Few very fine anhedral masses within feldspars	
Ilmenite	tr	Fine rounded grains, rims and lamellae with magnetite	
Pyrite	tr	One fine subhedral grain	
Monazite	tr	One subhedral grain	*Colourless, oblique extinction, high biref, high relief*



A



B

04-ARD-199-002: A) Representative view of the sample showing a granitic fragment made of K-feldspar, quartz and biotite. PPL, FOV = ~ 2.5 mm.
B) Detailed view showing the occurrence of pyrite and magnetite. RL, FOV = ~ 0.6 mm.

Sample: I-3 **8**

Hand Sample Description:
Porphyritic fragments, 1-3 cm large, of various colors (greenish to grayish), waxy. Creamy to greenish to dark, 1-8 mm in size phenocrysts and numerous subrounded vugs after phenocrysts. Yellow stain with sodium cobaltinitrite in phenocrysts (K-feldspar, <10%). Not magnetic. Very local reaction to dilute HCl.

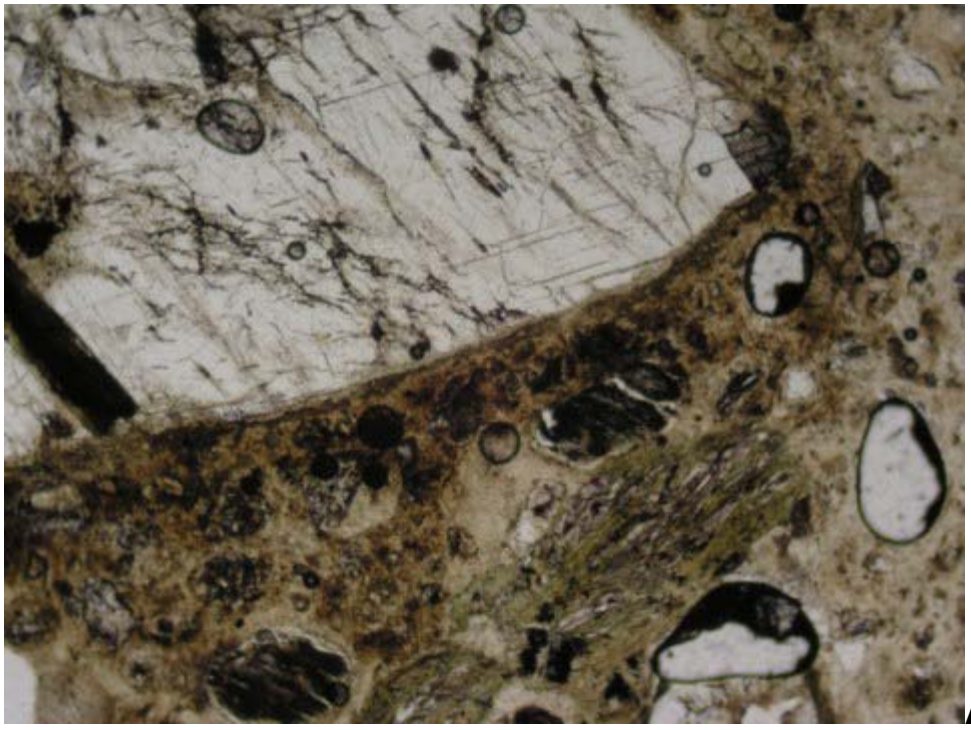
Thin Section Description:
Fragments of granitic and basic rocks occur within the sample, all characterized by extensive alteration. Fragments of ultrabasic rocks are replaced by a dark groundmass with subrounded aggregates of talc mantled by chlorite. Patches of biotite also occur.
Possible granitic fragments preserve clusters of quartz and primary subhedral K-feldspar partially altered to secondary K-feldspar and clay. Trace biotite was also observed.
Sulfides only consist of trace very fine ?pyrrhotite, but magnetite, hematite and rutile also occur throughout. Carbonates occur in trace amounts as fine patches and thin veinlets.

MAJOR MINERALS

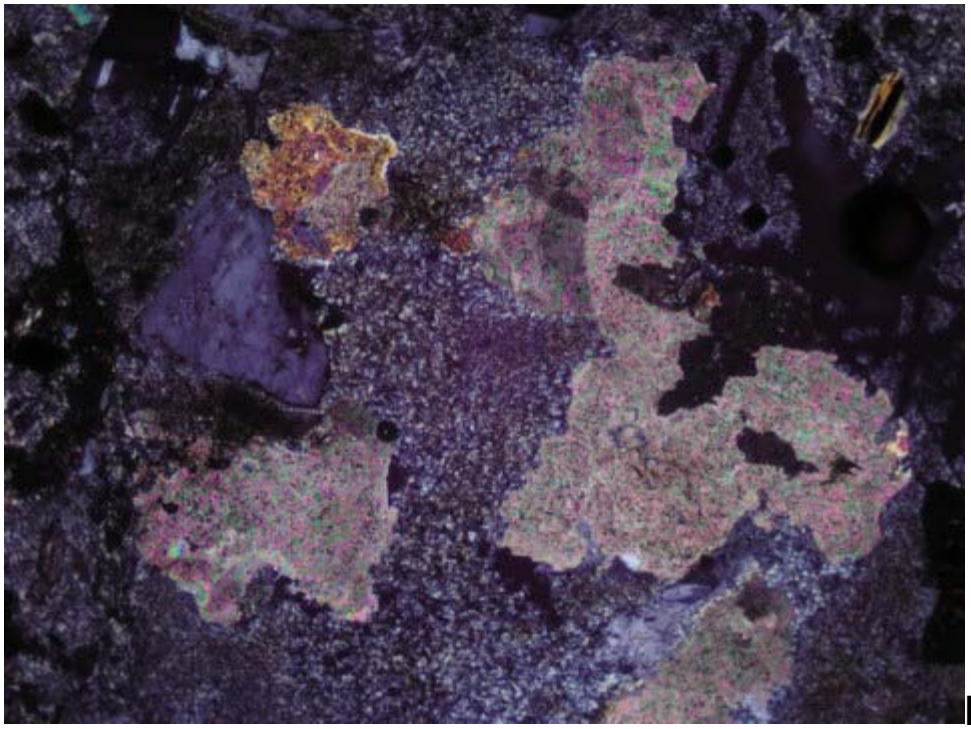
Mineral	%	Distribution & Characteristics	Optical
Groundmass	65	Extremely fine-grained matrix.	*Cream to dark brown, low biref*
Chlorite	10	Fine masses, with biotite. Also as fine mantle around masses of serpentine	*Abnormal blue biref*
?Talc	08	Very fine sheaves and masses of sheaves throughout. Also in subrounded masses, likely after serpentine pseudomorphing olivine	*Extreme biref*
K-feldspar	08	Fine subhedral grains, commonly pitted by sheaves of muscovite-sericite or weakly replaced by secondary grungy brown K-feldspar	
Biotite	05	Micaceous, foliated masses throughout and fine subhedral, foliated grains	*Weak pleo. High biref*

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Carbonate	tr-01	Fine-grained patches within clay or biotite, thin veinlets	
Quartz	tr	Rare fine-grained clusters	
?Magnetite	tr	Fine to extremely fine anhedral grains	
?Pyrrhotite	tr	Rare very fine anhedral grains	*anisotropic*
Rutile	tr	Very fine granular aggregates throughout and elongated masses within biotite	
?Hematite	tr	Deep red stain around vugs and fragments	



A



B

I-3: A) Representative view of the sample showing the dark groundmass with K-feldspar and green biotite phenocrysts. The white patches within the biotite are carbonate. PPL, FOV = ~ 2.5 mm.
B) Different view showing masses of carbonate developing with clay in one of the fragments. FOV = ~ 2.5 mm.

Sample: I-4 **9**

Hand Sample Description:
Well-sorted, gravel size-powder essentially made of angular grayish fragments with minor greenish, creamy and pinkish-red pieces. Approx. 5-8% of the fragments partly to completely stained yellow with sodium cobaltinitrite (K-feldspar). Few magnetic pieces, no reaction to dilute HCl.

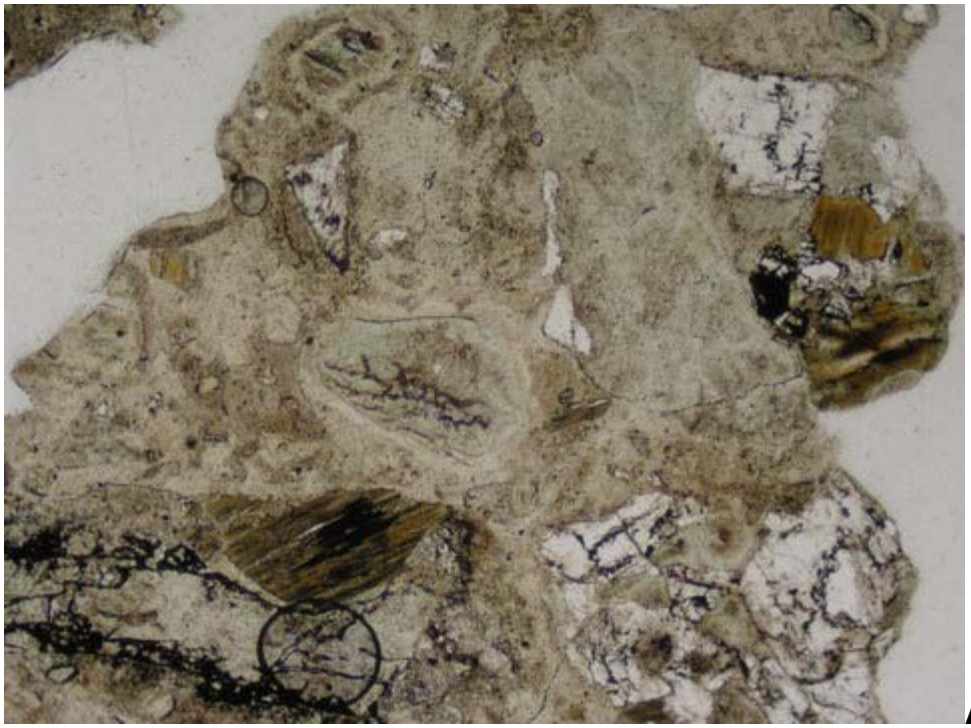
Thin Section Description:
Fragments are dominated by a very fine undetermined groundmass or by chlorite with disseminated K-feldspar, quartz, biotite and amphibole phenocrysts. K-feldspar is locally altered by secondary K-feldspar or by carbonate while masses of hematite ± rutile ± epidote occur within biotite. Subrounded aggregates of olivine-replacing serpentine are mantled by chlorite and commonly further pseudomorphosed by the groundmass.
Sulfides occur in small amounts and consist of chalcopyrite, pyrite and pyrrhotite. Additionally, magnetite, hematite and rutile occur throughout. Carbonates occur in trace amounts as fine patches and thin veinlets.

MAJOR MINERALS

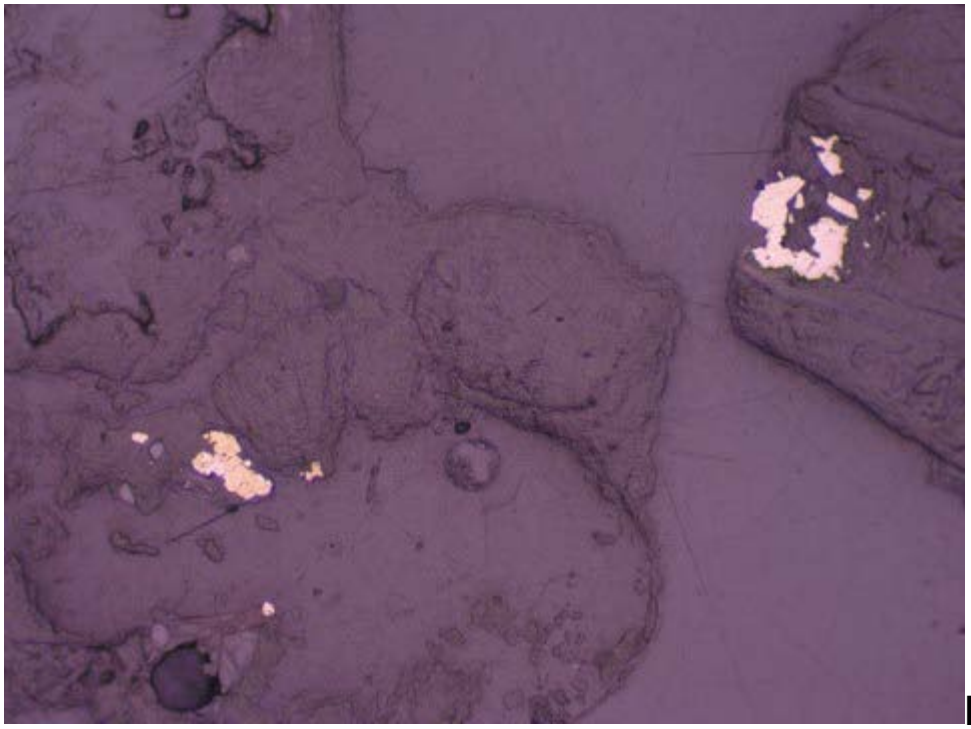
Mineral	%	Distribution & Characteristics	Optical
Groundmass	50	Extremely fine-grained groundmass of most fragments	*Cream to dark brown, low biref*
Chlorite	20	Very fine-grained mantle around masses of serpentine and matrix of some fragments	*Abnormal blue biref*
Serpentine	08	Fine fibrous subrounded masses mantled by chlorite, likely after olivine	
K-feldspar	08	Fine anhedral to subhedral grains, partially replaced by secondary grungy brown K-feldspar or by carbonate	
Biotite	05	Micaceous, foliated masses and masses throughout locally containing elongated masses of hematite and associated with rutile ± epidote	*Weak pleo. High biref*

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
?Hematite	01	Deep red stain around vugs and fragments	
Carbonate	tr-01	Rare fine-grained patches	
?Amphibole	tr	Rare subhedral grains, corroded, with typical amphibole cleavage	
Quartz	tr	Rare fine disseminated grains	
?Magnetite	tr	Rare fine subhedral tabular grains	
Pyrrhotite	tr	Very fine anhedral grains, locally as rim around chalcopyrite	*Anisotropic*
Unknown	tr	Rare very fine granular clusters	
Rutile	tr	Very fine granular aggregates throughout	
Chalcopyrite	tr	Fine to very fine anhedral masses, commonly partly rimmed by pyrrhotite	
?unknown	tr	Very fine needles throughout	



A



B

I-4: A) Representative view of the sample showing the undetermined groundmass with remnant biotite, olivine and masses of serpentine. PPL, FOV = ~ 2.5 mm.
B) Detailed view of the sample showing chalcopyrite (left) and ?pyrrhotite (right). Note the thin cream rim of possible pyrrhotite around chalcopyrite. RL, FOV = ~ 1.2 mm.

Sample: II-10 **10**

Hand Sample Description:
Well-sorted, sandsize-powder essentially made of angular grayish grains and fragments with minor greenish, creamy and pinkish-red pieces. Approx. 5% of the fragments partly to completely stained yellow with sodium cobaltinitrite (K-feldspar). Not magnetic, no reaction to dilute HCl.

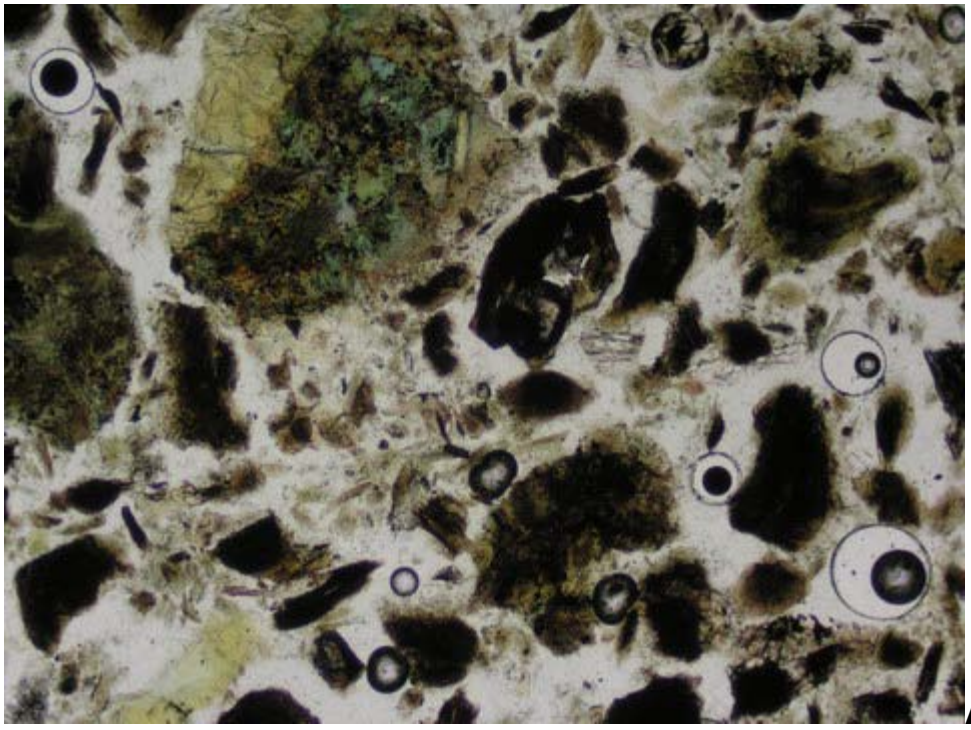
Thin Section Description:
Fine fragments made of a very fine groundmass of clay, chlorite and talc (XRD) form most of the sample with minor lithic fragments variously consisting of serpentine, biotite, chlorite, K-feldspars and quartz. Very fine chalcopyrite and pyrrhotite form most of the sulfides with hematite and rutile also disseminated throughout the fragments. Rare fine subhedral magnetite was observed.
Rare patches of carbonate also occur.

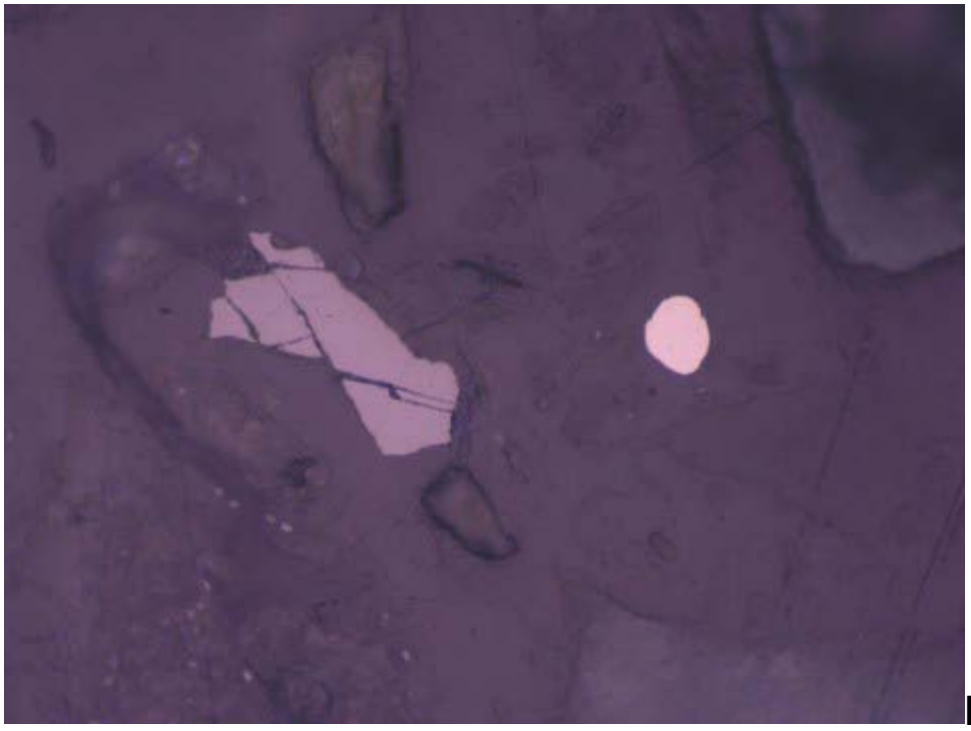
MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Groundmass	70	Extremely fine-grained, orange to grungy brown matrix of most fragments, made of clay, chlorite and talc (XRD)	
Biotite	08	Fine foliated masses within fragments typically associated with serpentine. Disseminated grains	*Weak pleo. High biref*
Serpentine	08	Fine fibrous subrounded masses commonly mantled by chlorite	*1st order δ*
Chlorite	05	Very fine-grained mantle around serpentine, clusters intermixed with biotite and part of the matrix	*Abnormal blue biref*

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
K-feldspar	03	Fine anhedral to subhedral grains, commonly mantled by clay and hematite	
?Magnetite	tr-01	Rare fine subhedral tabular grains	
?Hematite	tr-01	Deep red stain around vugs and fragments	
Carbonate	tr	Rare fragments and patches within fragments	
Quartz	tr	Granular aggregates within fragments and broken grains	
Pyrrhotite	tr	Rare very fine anhedral to subrounded grains	
Rutile	tr	Very fine granular aggregates throughout	
Chalcopyrite	tr	Fine to very fine anhedral masses	





II-10: A) Representative view of the sample showing dark clay fragments and red-green biotite-chlorite-serpentine fragments. PPL, FOV = ~ 2.5 mm.
B) Detailed view showing pyrrhotite (cream) and magnetite. RL, FOV = ~ 1.2 mm.

Sample: II-12 **11**

Hand Sample Description:
Greenish and waxy porphyritic fragments, 2-3 cm large with greenish to pinkish red to dark phenocrysts, 2-8 mm. Cut fragments show high content of dull soft, white ?clay. No stain with sodium cobaltinitrite. Not magnetic. No reaction to dilute HCl.

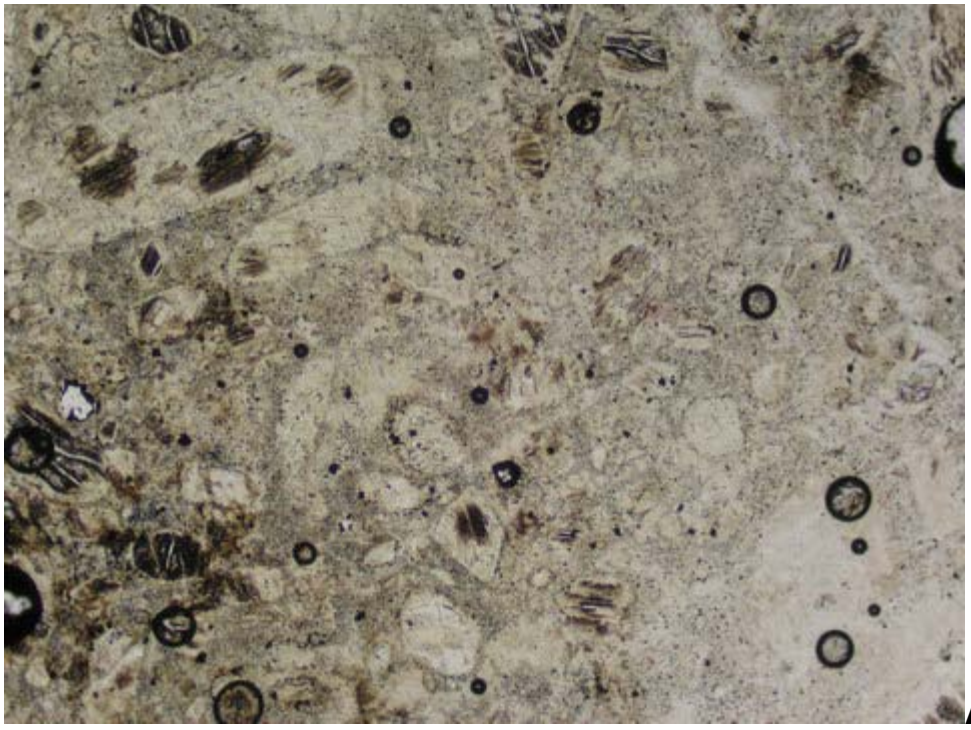
Thin Section Description:
The sample is formed by two fragments made essentially of a very fine-grained groundmass of clay, chlorite and talc (XRD confirmed) and subrounded masses of serpentine mantled by chlorite and likely pseudomorphing original olivine. Trace biotite occurs throughout.
Trace pyrite occurs filling fractures within masses of serpentine and associated with hematite. Hematite stains the sample and occurs within biotite. Trace rutile and magnetite also occur.
No carbonate was observed.

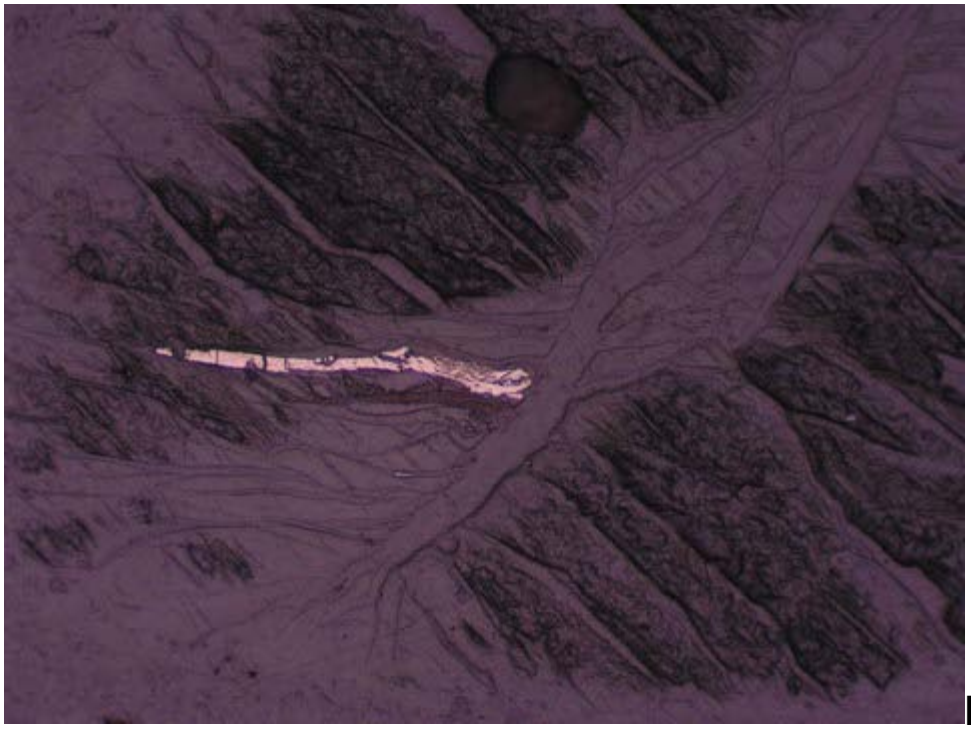
MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Groundmass	75	Extremely fine-grained, orange to grungy brown matrix of most fragments, made of clay, chlorite and talc (XRD)	
Chlorite	10	Very fine-grained mantle around serpentine, clusters within the matrix	*Abnormal blue biref*
Serpentine	05	Fine fibrous subrounded masses commonly mantled by chlorite	*1st order δ*

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Biotite	03	Fine foliated masses	*Weak pleo. High biref*
?Amphibole	03	Fine anhedral to subhedral grains in clusters	*Weak pleo Yellow biref colors*
?Hematite	01	Deep red stain around vugs and fragments. Also in ribbons within biotite	
?Magnetite	tr-01	Rare fine to very fine, broken, subhedral tabular grains	
Pyrite	tr	Rare very fine anhedral grains and elongated masses filling fractures within serpentine. Commonly occurs associated with hematite	
Rutile	tr	Very fine granular aggregates throughout	





II-12: A) Representative view of the sample, showing fragments made of clay preserving subrounded masses of serpentine. PPL, FOV = ~ 2.5 mm.
B) Detailed view showing an elongated mass of pyrite filling a crack within serpentine. RL, FOV = ~ 2.5 mm.

Sample: II-13 **12**

Hand Sample Description:
Porphyritic fragments, greenish to dark, waxy, 1-3 cm large. Creamy to greenish to dark, 1-8 mm in size phenocrysts. Yellow stain with sodium cobaltinitrite in rare phenocrysts (K-feldspar, <1%). Not magnetic. Very local reaction to dilute HCl around phenocrysts.

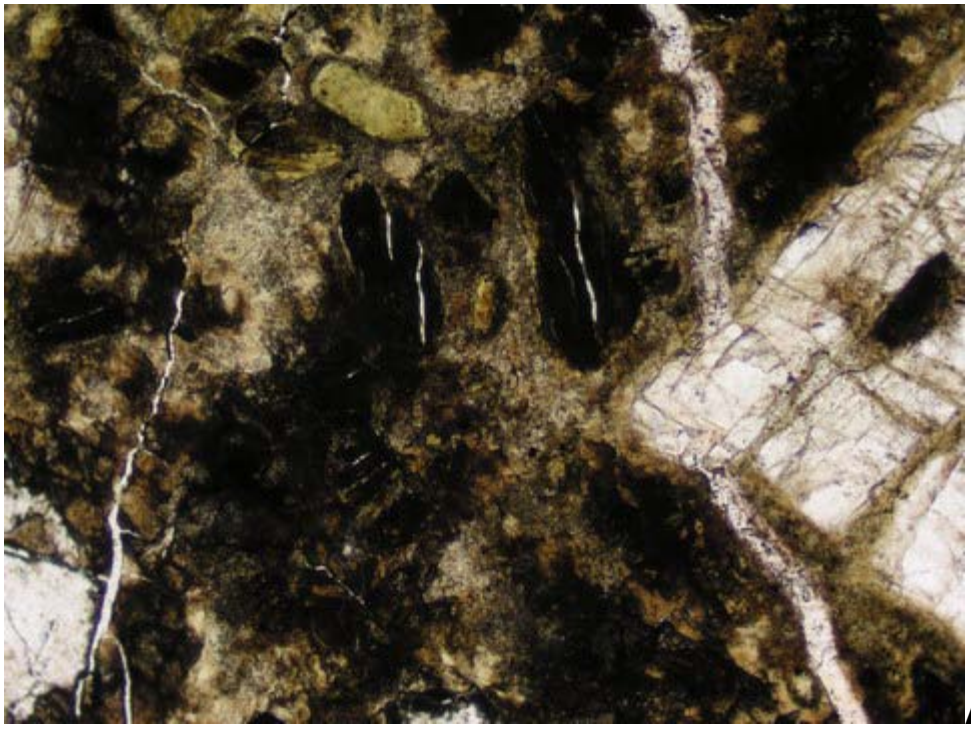
Thin Section Description:
The section is formed by strongly altered lithic fragments, typically characterized by a grungy brown groundmass of clay, chlorite and talc (XRD) containing subrounded to subhedral clusters of the same chlorite and biotite. Subrounded masses of serpentine are locally preserved from alteration. K-feldspar is also locally preserved.
Rare extremely fine pyrite and magnetite occur, as well as hematite staining. No carbonate was observed.

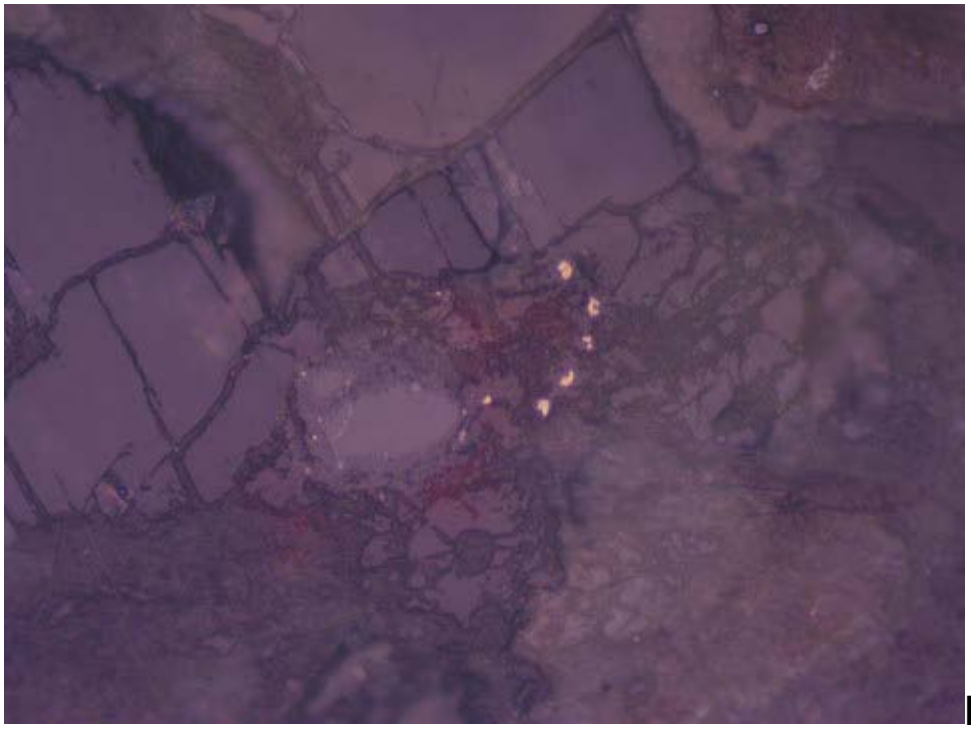
MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Groundmass	65	Dark grungy brown, occurs as subrounded to subhedral, commonly foliated masses and matrix within fragments, likely pseudomorphing serpentine and /or mafic minerals. Made of clay, chlorite and talc (XRD)	
Chlorite	20	Extremely fine-grained monomineralic and anhedral clusters throughout. Also as part of the groundmass	
Biotite	10	Extremely fine-grained masses and fine sheaves throughout.	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
K-feldspar	03	Fine to medium-grained subhedral grains, twinned	
Serpentite	01	Partially preserved fine, subrounded and foliated masses strongly altered by groundmass	
Quartz	tr	One very thin veinlet in one of the fragments	
Hematite	tr	Deep red stain throughout	
?Magnetite	tr	Extremely fine grains disseminated	
Pyrite	tr	Few extremely fine anhedral grains	





II-13: A) Representative view of the sample showing a K-feldspar phenocryst, altered biotite and subrounded clusters of serpentine in a clay groundmass. Note the quartz veinlet. PPL, FOV = ~ 2.5 mm. B) Detailed view showing the only occurrence of pyrite in the sample, associated with deep red hematite. RL, FOV = ~ 0.6 mm.

Sample: II-17 **13**

Hand Sample Description:
Well-sorted, gravel size-powder essentially made of angular grayish fragments with minor greenish, creamy and pinkish-red pieces. Approx. 5% of the fragments partly to completely stained yellow with sodium cobaltinitrite (K-feldspar). Not magnetic, no reaction to dilute HCl.

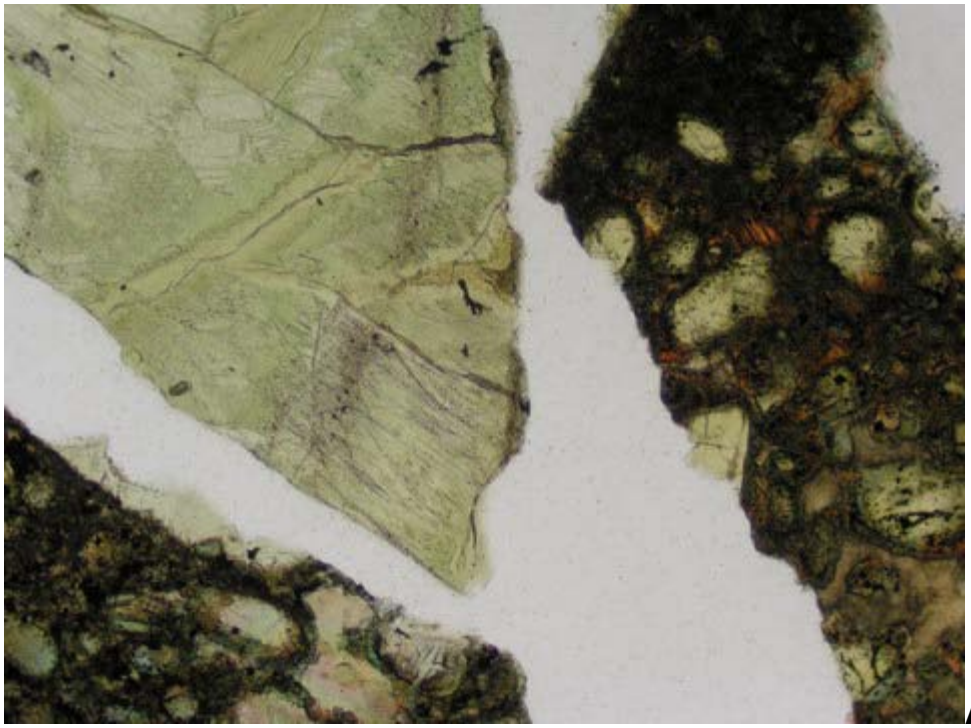
Thin Section Description:
All fragments are strongly altered but a peridotitic texture can typically be recognized. Groundmass of most fragments is made by very fine-grained clay ± chlorite ± talc ± rutile (XRD) and preserve subrounded masses of serpentine commonly rimmed by chlorite and biotite, locally replaced by talc and pseudomorphing primary olivine.
Hematite locally stains some fragments and occurs with trace carbonate. Extremely fine-grained rutile occurs within the groundmass and is possibly associated with magnetite, although the very fine size makes the differentiation uncertain. Rare very fine pyrite also occurs.

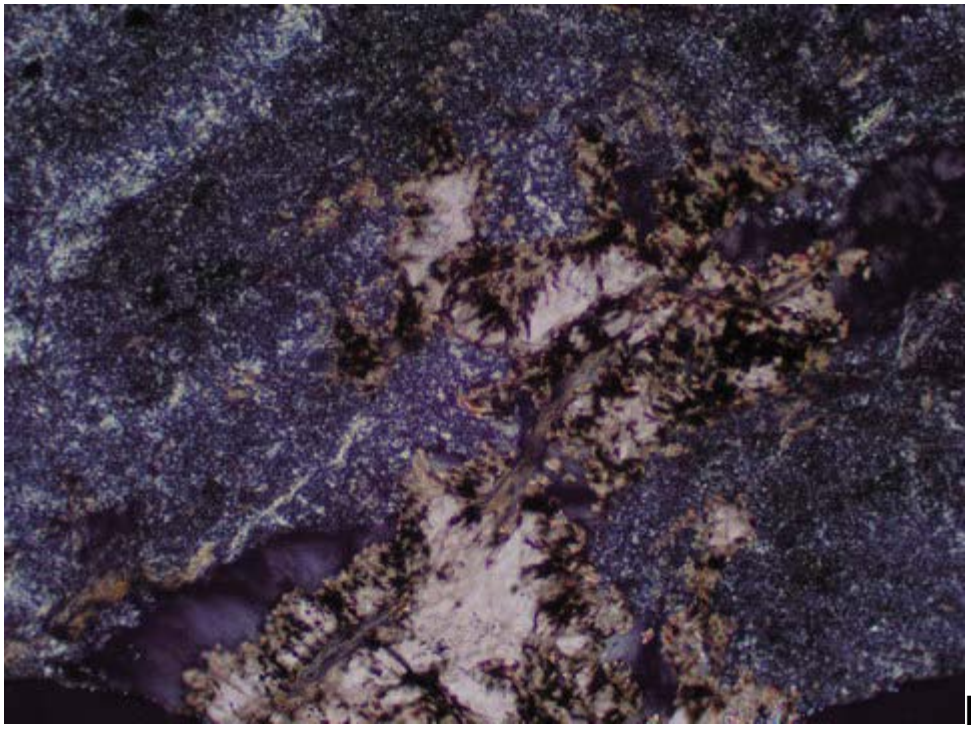
MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Groundmass	55	Grungy brown to opaque matrix of fragments and patches within fragments. Likely made of clay, chlorite and talc (XRD)	
Serpentine	15	Fibrous subrounded masses typically occurring within the biotite/chlorite groundmass, likely pseudomorphing olivine	
Biotite	10	Thin rims around subrounded masses of serpentine, clusters of subhedral foliated grains and disseminated masses, commonly partly altered to chlorite	
Chlorite	10	Very fine-grained granular clusters, intermixed with biotite, occurring as rim around serpentine and as patches throughout	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
K-feldspar	03	Fine-grained fragments of anhedral cloudy and pitted grains	
?Perovskite / Rutile	03	Extremely fine subhedral grains throughout	*Transparent brown in PPL Ext. high δ Pale green, weak pleo*
Talc	02	Fine masses pseudomorphing serpentine or filling fractures within serpentine	
Carbonate	tr	Fine anhedral masses occurring with hematite within some fragments	
Hematite	tr	Deep red stain throughout	
Pyrite	tr	Rare very fine grains	





II-17: A) Representative view of the sample showing pseudomorphs of serpentine after olivine rimmed by chlorite-biotite, in a dark groundmass and patches of chlorite-biotite (left fragment). PPL, FOV = ~ 2.5 mm.
B) Detailed view showing the occurrence of patches of carbonate and hematite within the groundmass. XPL, FOV = ~ 1.2 mm.

Sample: II-18 **NO SECTION**

Hand Sample Description:
One coarse green and black fragment, vaguely porphyritic with very thin ribbons of white and dull clay. Not magnetic. No reaction to dilute HCl.

Sample: III-1 **15**

Hand Sample Description:
Poorly sorted powder made essentially of sand to gravel sized dull, soft and creamy pieces. Very local spots stained yellow with sodium cobaltinitrite (K-feldspar, ~ -1-2 %). Not magnetic, no reaction to dilute HCl.

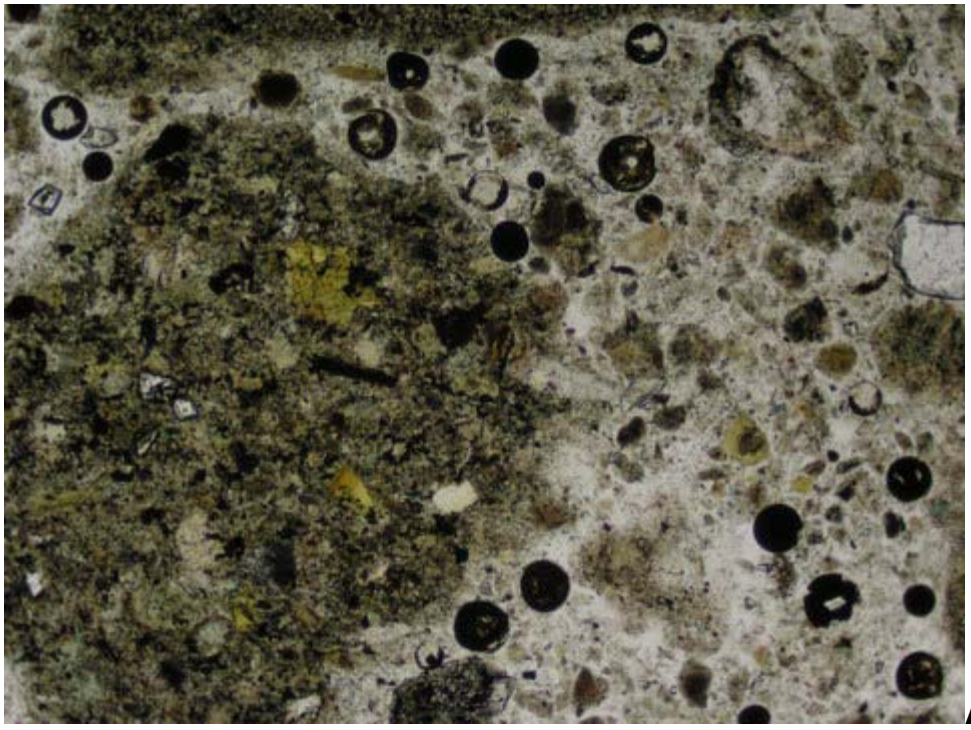
Thin Section Description:
The sample is made of extremely fine-grained clay, chlorite and talc forming the matrix of most fragments. Clusters of chlorite and serpentine occur throughout while fine grains of olivine, biotite, K-feldspar, quartz and amphibole are disseminated.
Fine carbonate also occurs locally. Sulfides consist of very fine ?pyrrhotite and chalcopyrite, ?pyrrhotite commonly rimming chalcopyrite. Magnetite is disseminated and locally contains ilmenite lamellae. Very fine-grained rutile also occurs disseminated while hematite locally stains the sample.

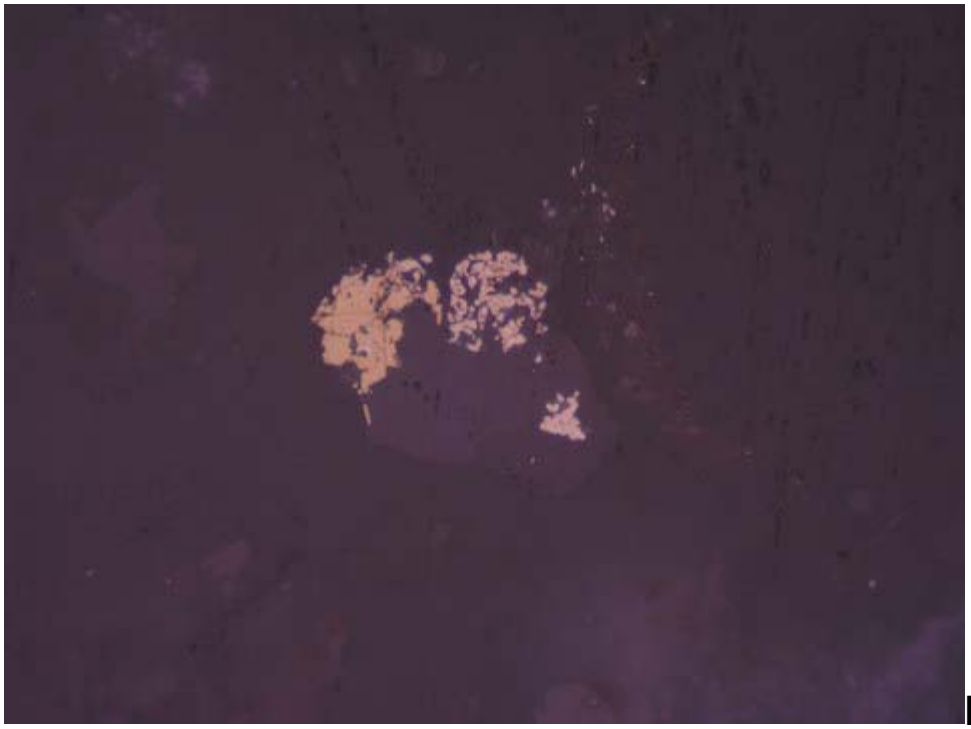
MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Groundmass	60	Extremely fine-grained matrix of fragments and clusters throughout. Made of clay, chlorite and talc (XRD)	
Chlorite	10	Extremely fine-grained clusters throughout	
Serpentine	08	Subrounded masses within fragments and subangular clusters	
Biotite	08	Fine sheaves and subhedral grains	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Olivine	03	Fine anhedral fragments	
Hematite	02	Stain throughout	
?Rutile	02	Very fine grains and granular clusters throughout	
K-feldspar	01	Rare fine tabular grains, twinned	
Carbonate	01	Fine anhedral masses	
Magnetite	tr-01	Fine to very fine subhedral grains	
Quartz	01	Fine anhedral grains	
Amphibole	01	Fine subhedral tabular grains	*Ob. Extinct, high δ*
?Pyrrhotite	tr	Very fine anhedral grains and rims around chalcopyrite	
Chalcopyrite	tr	Very fine anhedral grains, commonly rimmed by pyrrhotite	
Ilmenite	tr	Lamellae within magnetite	





III-1: A) Representative view of the sample showing essentially fragments and grains of clay, chlorite, serpentine and biotite. PPL, FOV = ~ 2.5 mm.
B) Detailed view showing the occurrence of very fine pyrrhotite and chalcopyrite. Note the pyrrhotite rim around chalcopyrite. RL, FOV = ~ 0.3 mm.

Sample: IV1 + IV2 **16**

Hand Sample Description:
Well-sorted powder made of sand sized dull, soft and creamy pieces. Locally, pieces stained yellow with sodium cobaltinitrite (K-feldspar, <2%). Not magnetic, no reaction to dilute HCl.

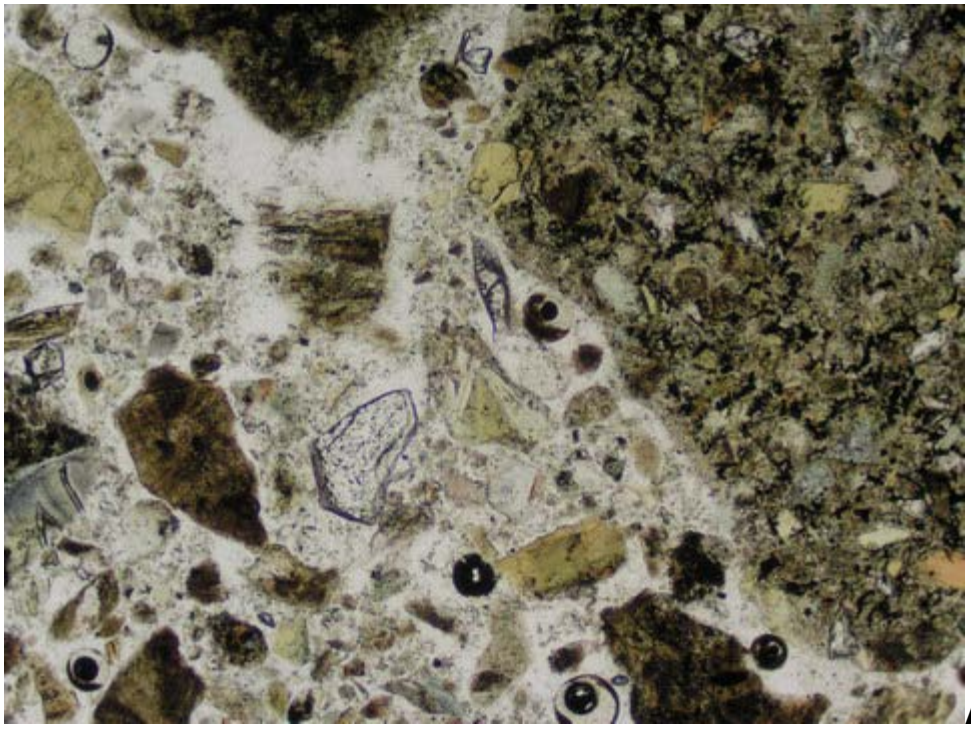
Thin Section Description:
Fine variously altered fragments form the sample, dominated by extremely fine-grained clay ± chlorite ± talc (XRD). Lithic fragments occur and consist mostly of olivine and / or serpentine in a very fine groundmass of biotite ± chlorite ± rutile. Broken grains of olivine, biotite, K-feldspar, quartz and carbonate also occur. Hematite locally replaces biotite and fine magnetite occurs throughout. ?Pyrrhotite was also observed.

MAJOR MINERALS

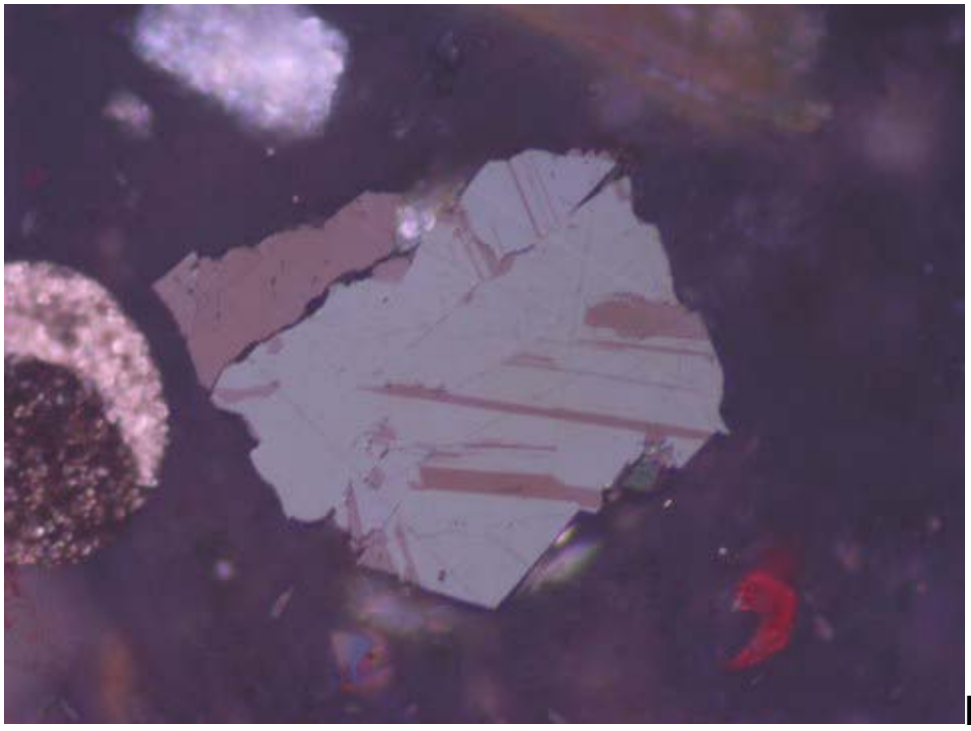
Mineral	%	Distribution & Characteristics	Optical
Groundmass	55	Very fine-grained fragment matrix, likely made of clay ± talc ± chlorite (XRD)	
Serpentine	10	Fine foliated masses occurring in subangular fragments and as fracture infill within olivine	
Biotite	10	Very fine subangular elongated, foliated grains and very fine anhedral grains	
Olivine	05	Fine broken grains and masses of grains, commonly fractured with fractures filled by serpentine and / chlorite. Commonly serpentinized	
K-feldspar	05	Fine broken grains, twinned, commonly rimmed along boundaries by clay, locally by carbonate	
Chlorite	05	Very fine-grained, occurs in patches and as groundmass of some fragments	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Rutile	03	Very fine grains and clusters of grains associated with biotite and chlorite	
Carbonate	tr-01	Very fine-grained fragments and anhedral masses	
Pyrrhotite	tr	Rare fine to extremely fine anhedral to subhedral grains twinned	*Very sg anisotropy*
Quartz	tr	Fine anhedral grains	
Hematite	tr	Fine elongated masses within biotite	
Magnetite	tr	Fine grains	



A



B

IV1 + IV2: A) Representative view of the sample showing fragments and grains dominated by clay, serpentine, olivine, biotite, chlorite and K-feldspar. PPL, FOV = ~ 2.5 mm.
B) Detailed view of a grain of ?arsenopyrite showing characteristic twinning and anisotropy. RL, FOV = ~ 0.6 mm.

Sample: V1 + V2 **17**

Hand Sample Description:
Well-sorted powder made of sand sized pieces of various colors including gray, greenish, white and pinkish red. Locally, pieces stained yellow with sodium cobaltinitrite (K-feldspar, <2%). Few magnetic fragments, no reaction to dilute HCl.

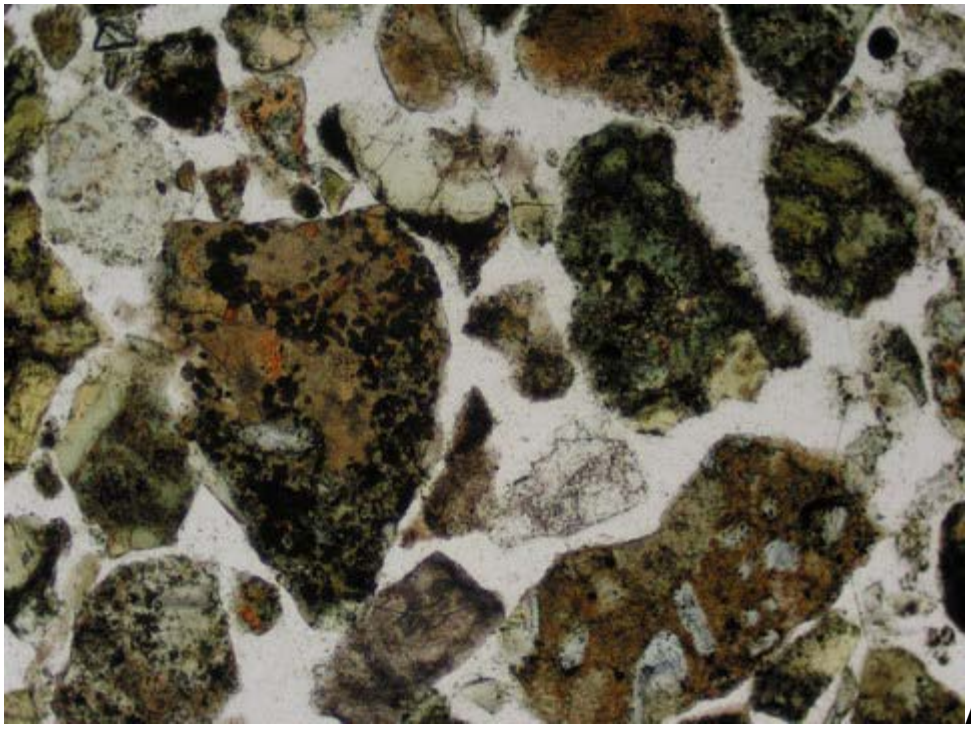
Thin Section Description:
The sample contains essentially fragments of altered ultramafic rocks, characterized by fractured olivine selectively altered by serpentine in a very fine-groundmass of biotite partly altered to chlorite or in a groundmass of clay, chlorite and talc. Rare broken K-feldspar (mostly secondary) and one possible plagioclase grain occur throughout as do subhedral grains of carbonate.
Sulfides only consist of extremely fine pyrite with exception of one coarser grain. Magnetite, rutile and hematite are disseminated.

MAJOR MINERALS

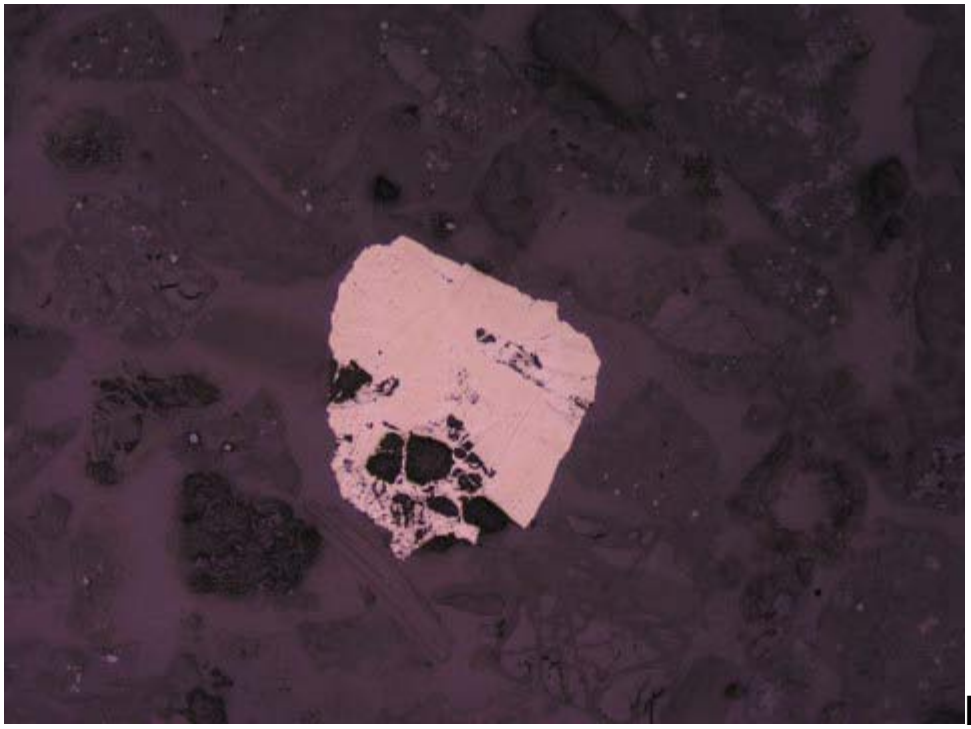
Mineral	%	Distribution & Characteristics	Optical
Groundmass	30	Very fine-grained colourless to grungy brown masses occurring within fragments, likely made of clay, chlorite and talc (XRD)	
Biotite	15	Fine subhedral grains and very fine sheaves occurring as groundmass of some fragments, typically with chlorite	
Chlorite	20	Very fine-grained, occurs in patches and as replacement of biotite in the groundmass of some fragments	
Serpentine	10	Fine foliated masses occurring in subrounded masses and as fracture infill replacing olivine	
Olivine	10	Fine grains and masses of grains, commonly with fractures filled by serpentine and / chlorite	
?Talc	08	Masses of very fine sheaves in fragments	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Rutile	02	Very fine grains and clusters of grains typically associated with biotite and chlorite	
K-feldspar	02	Fine subhedral grains, commonly secondary	
?Pyrite	tr-01	Rare extremely fine anhedral grain. Also one subhedral cubic grain, approx. 800 µm large	*Weak aniso*
Carbonate	tr	Few fine anhedral to euhedral grains	
Hematite	tr	Fine masses	
Magnetite	tr	Very fine subhedral grains	
Plagioclase	tr	One angular fragment with polysynthetic twinning	



A



B

V1 + V2: A) Representative view of the sample showing fragments dominated by clay ± chlorite ± talc or by biotite and chlorite with minor serpentine, olivine and K-feldspar. PPL, FOV = ~ 2.5 mm.
B) Detailed view of a weakly anisotropic sulfide grain of pyrite. RL, FOV = ~ 2.5 mm.

Sample: VI-1 **18**

Hand Sample Description:
Well-sorted powder made of sand sized pieces of various colors including gray, greenish, white and pinkish red. Locally, pieces stained yellow with sodium cobaltinitrite (K-feldspar, <5%). Few magnetic fragments, no visible reaction to dilute HCl.

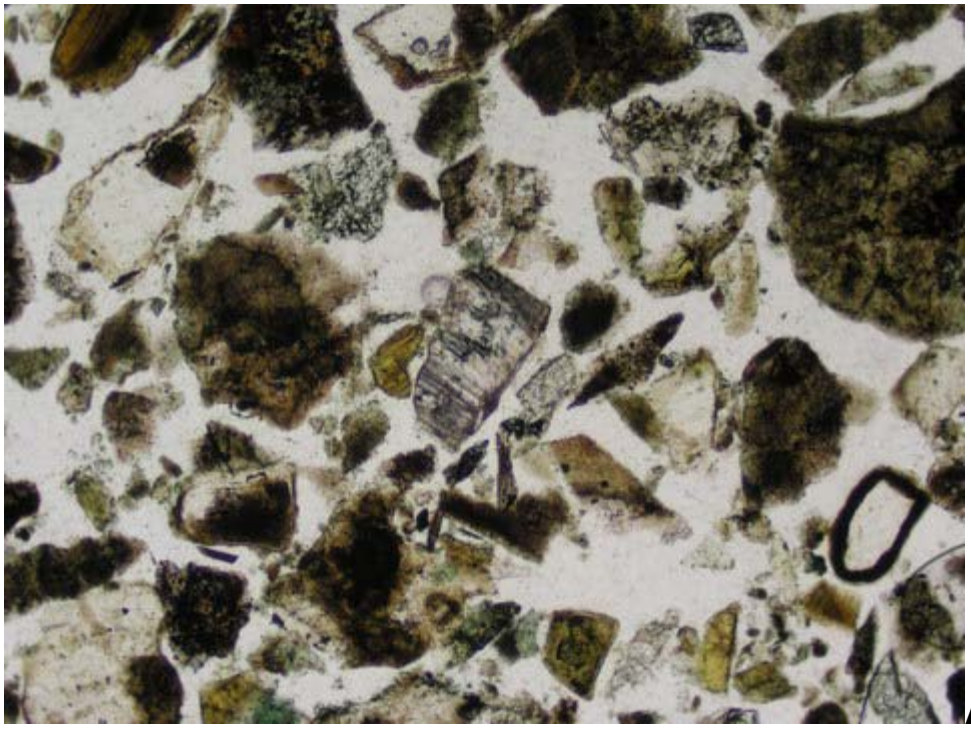
Thin Section Description:
The sample contains significantly more clay ± chlorite± talc fragments than the previous one, at the expense of fragments of altered ultramafic rocks characterized by olivine ± serpentine ± biotite ± chlorite. Granitic and feldspathic fragments are also more common.
Sulfides consist of trace amounts of fine pyrite and chalcopyrite. Rutile, magnetite, and hematite are disseminated, magnetite typically coarser than in previous sections.
Patches and subhedral grains of carbonate also occur.

MAJOR MINERALS

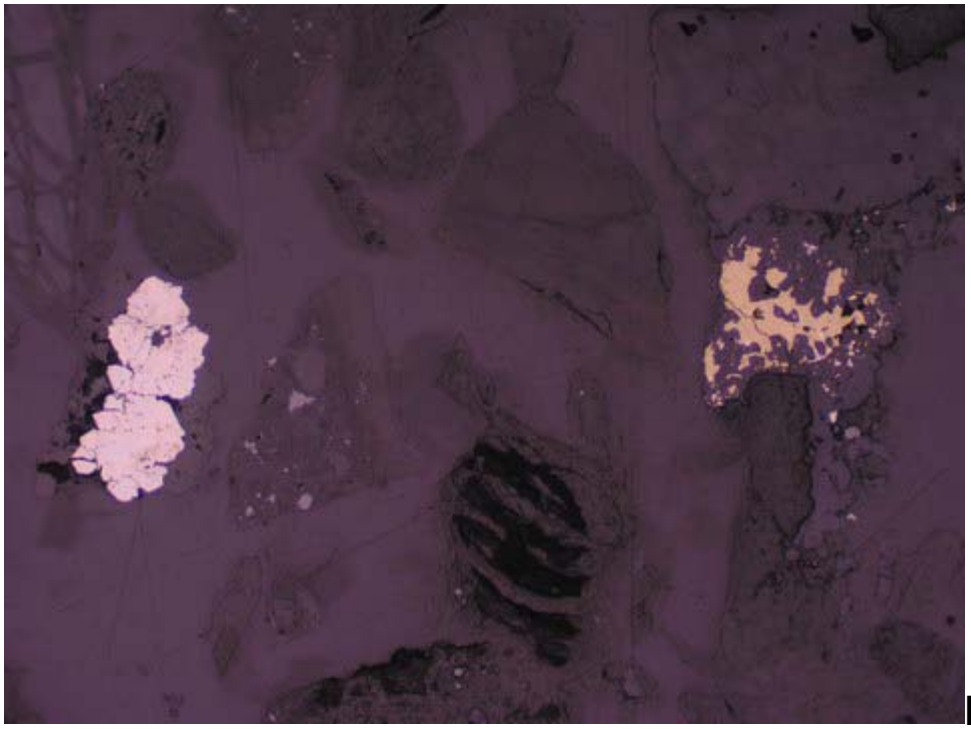
Mineral	%	Distribution & Characteristics	Optical
Groundmass	55	Very fine-grained typically grungy brown masses occurring within fragments	
Serpentine	10	Fine foliated masses occurring in subrounded masses and as fracture infill replacing olivine	
Biotite	10	Fine broken sheaves throughout as well as sheaves and masses within fragments	
Chlorite	10	Very fine-grained, occurs in patches within fragments	
Olivine	05	Fine grains and masses of grains, commonly with fractures filled by serpentine and / or biotite	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Rutile	03	Very fine grains and clusters of grains typically associated with biotite and chlorite	
Carbonate	02	Fine anhedral masses and granular aggregates throughout	
Talc	02	Foliated masses and ribbons throughout	
?Pyrrhotite	tr-01	Fine anhedral grains and ribbons up to 1 mm in size	
Magnetite	tr	Fine subhedral grains	
Chalcopyrite	tr	Fine anhedral masses throughout, including one with core of ?enargite	
Hematite	tr	Fine masses	
Quartz	tr	Fine anhedral grains in fragments	
Amphibole	tr	One partially preserved grains with typical cleavages	
?Enargite	tr	One fine grain with rim of chalcopyrite	*Pinkish, pleochroic, sg aniso*



A



B

VI-1: A) Representative view of the sample showing fragments and grains dominated by clay, serpentine, olivine, biotite, chlorite and K-feldspar. The grain in the center is a carbonate. PPL, FOV = ~ 2.5 mm. B) Detailed view showing the occurrence of yellow chalcopyrite and creamy pink pyrrhotite. RL, FOV = ~ 1.2 mm.

Sample: VIII-1 **19**

Hand Sample Description:
Moderately well sorted powder made essentially of sand sized pieces and rare gravel fragments, all dominantly of grayish color with minor reddish and green pieces. No chip returned (?K-feldspar)
Few magnetic fragments, no reaction to dilute HCl.

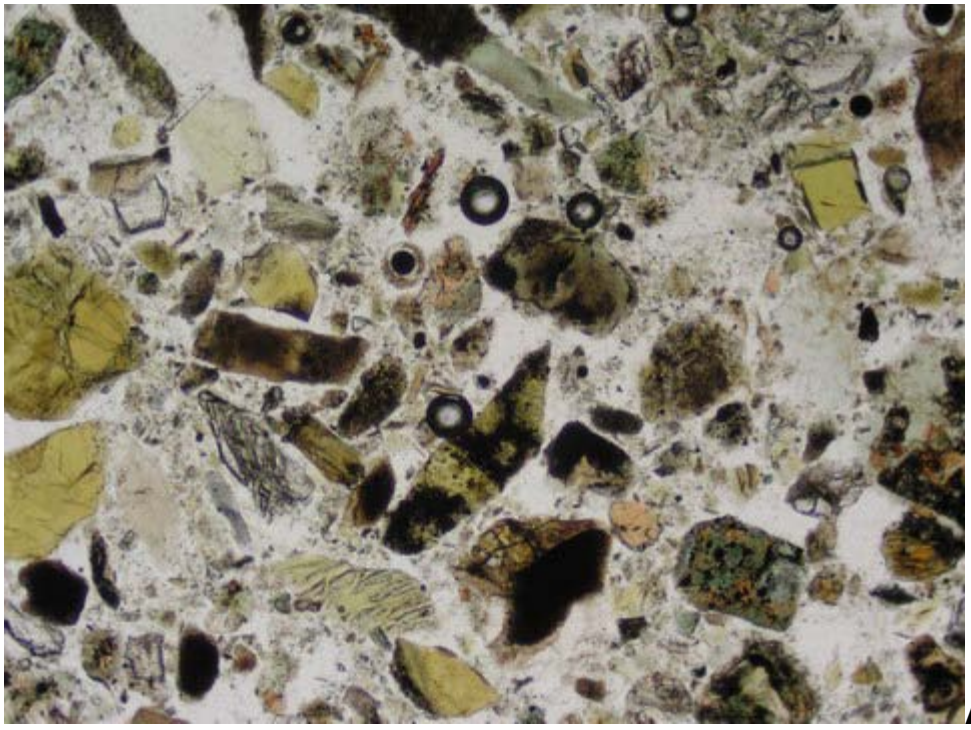
Thin Section Description:
Altered ultramafic fragments form most of the sample, consisting of serpentine or chlorite ± talc ± clay fragments associated with biotite ± chlorite ± rutile ± magnetite. Grains and fragments of quartz, K-feldspar or preserved olivine locally occur.
Sulfides consist of trace amounts of fine pyrite and chalcopyrite. Rutile, magnetite and hematite occur disseminated. Trace amounts of carbonate were also observed.

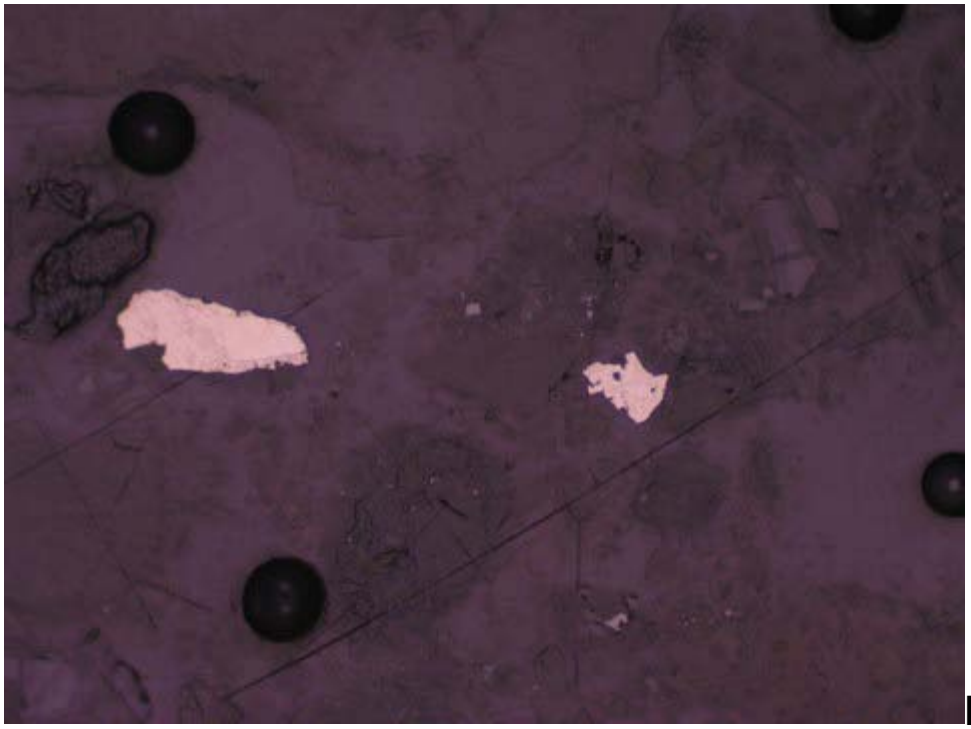
MAJOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Groundmass	55	Likely 2 types: - Fine grungy brown to opaque fragments, (chlorite ± talc ± vermiculite, XRD) - Extremely fine-grained masses within fragments (colourless, low δ), likely vermiculite (XRD)	
Serpentine	15	Fine foliated anhedral masses in fragments	
Biotite	10	Very fine anhedral masses occurring in fragments with chlorite and rutile and fine foliated masses and ribbons associated with serpentine	
Chlorite	10	Extremely fine-grained anhedral masses occurring in fragments with biotite and rutile, commonly replaced by clay	
Olivine	05	Fine anhedral grains and masses of grains,	

MINOR MINERALS

Mineral	%	Distribution & Characteristics	Optical
Rutile	02	Very fine grains and clusters of grains typically associated with biotite and chlorite	
?Pyrite	tr-01	Fine to very fine anhedral to subhedral grains	
Carbonate	tr	Fine anhedral masses	
Magnetite	tr	Fine anhedral to subhedral grains	
Chalcopyrite	tr	Fine to very fine anhedral to elongated masses	
Hematite	tr	Fine masses	
Quartz	tr	Fine subhedral fragments	
K-feldspar	tr	Fine subhedral grains, weakly altered to secondary brownish K-feldspar	





VIII-1: A) Representative view of the sample showing fine grains and fragments and dominated by clay and serpentine. PPL, FOV = ~ 2.5 mm.
B) Detailed view of the occurrence of pyrite. RL, FOV = 1.2 mm.

QUANTITATIVE PHASE ANALYSIS OF 16 POWDER SAMPLES USING THE RIETVELD METHOD AND X-RAY POWDER DIFFRACTION DATA.

(Project: Amec-De Beers Gahcho Kue Kimberlite 2-21-914 - P.O. V 2038)

Tim O'Hearn
Vizon SciTec Inc.
3650 Wesbrook Mall
Vancouver, B.C. V6S 2L2

Mati Raudsepp, Ph.D.
Elisabetta Pani, Ph.D.
Dept. of Earth & Ocean Sciences
6339 Stores Road
The University of British Columbia
Vancouver, BC V6T 1Z4

June 20, 2006

EXPERIMENTAL METHOD

The samples of project **Amec-De Beers Gahcho Kue Kimberlite** were reduced to the optimum grain-size range for X-ray analysis (<10μm) 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 3-70°2θ with CuKα radiation on a standard Siemens (Bruker) D5000 Bragg-Brentano diffractometer equipped with a Ni monochromator foil, 0.6 mm (0.3°) divergence slit, incident- and diffracted-beam Sollers slits and a Vantec-1 strip detector. The long fine-focus Cu X-ray tube was operated at 35 kV and 50 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 software Topas 3 (Bruker AXS). The results of **semi-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 1-16.

Note that the broad peaks in the samples are from disordered clay minerals, the identity of which is not certain. However, the crystal structure of vermiculite fits well and is used as a proxy. Also the presence of disordered lizardite and chlorite contributes to the poor fit of the refined plots. Therefore the results must be considered as **semi-quantitative.**

.

	04ARD 126-015	04ARD 137-013	04 ARD 159-010	04ARD 171-015	I-3	I-4	II-10	II-12
Vermiculite 2M	26.7		19.1		25.6	24.7	27.9	28.9
Clinochlore II	30.5	42.1	14.8	30.0	25.5	25.4	31.0	26.6
Talc 1A	25.3		21.0		27.6	27.9	19.0	21.6
Phlogopite 1M	7.0	31.9	7.6	20.1	5.9	6.1	8.9	5.4
Actinolite	3.5		3.7		4.9	4.2		2.2
Microcline intermediate	2.9		23.6					7.7
Quartz			3.7		3.3	4.2	1.6	2.9
Orthoclase			3.7		4.5	4.5	4.7	
Hematite			0.6					3.5
Lizardite	?	13.0	2.2	8.0	?	?	5.4	
Forsterite		minor?		31.5				
Pectolite 1A		11.9		8.0				
Monticellite		0.5		1.9				
Perovskite		0.6		0.5				
Dolomite					0.9	1.1	0.2	0.3
Calcite					1.8	1.8	1.4	1.0
Rutile	0.5							
Titanite	1.8							
Natrolite	1.7							
Anatase?								
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 1. Results of semi-quantitative phase analysis (wt. %) - PSA 653

	II-13	II-17	II-18	III-1	IV1+ IV2	V1+V2	VI-1	VIII-1
Vermiculite 2M	26.0	26.6	24.2	19.7	18.7	16.9	20.3	20.3
Clinochlore II	34.2	21.3	24.5	28.4	30.3	31.2	23.8	30.9
Talc 1A	25.6	22.1	22.3	19.3	15.9	17.0	18.5	10.6
Phlogopite 1M	8.8	8.1	13.0	10.6	11.3	10.7	9.5	13.0
Actinolite				2.7			4.7	
Microcline intermediate								
Quartz		1.3		2.0	2.5	2.3	4.3	1.0
Orthoclase	3.1	3.1	1.7	2.6	3.0	3.9	3.7	2.8
Hematite					0.5	0.4	0.3	
Lizardite		14.6	10.4	9.2	10.6	10.6	8.9	13.1
Forsterite			1.0	2.5	4.1	4.0	2.2	4.8
Pectolite 1A								0.8
Monticellite			97.0					
Perovskite								
Dolomite	0.3	2.1	0.0	0.4	1.2	0.4	0.9	
Calcite	1.0	0.8	1.9	2.0	1.9	2.3	2.1	2.1
Rutile	1.0		0.5	0.6		0.4	0.8	0.6
Titanite								
Natrolite								
Anatase?			0.7					
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 1 (continued). Results of semi-quantitative phase analysis (wt. %) - PSA 653

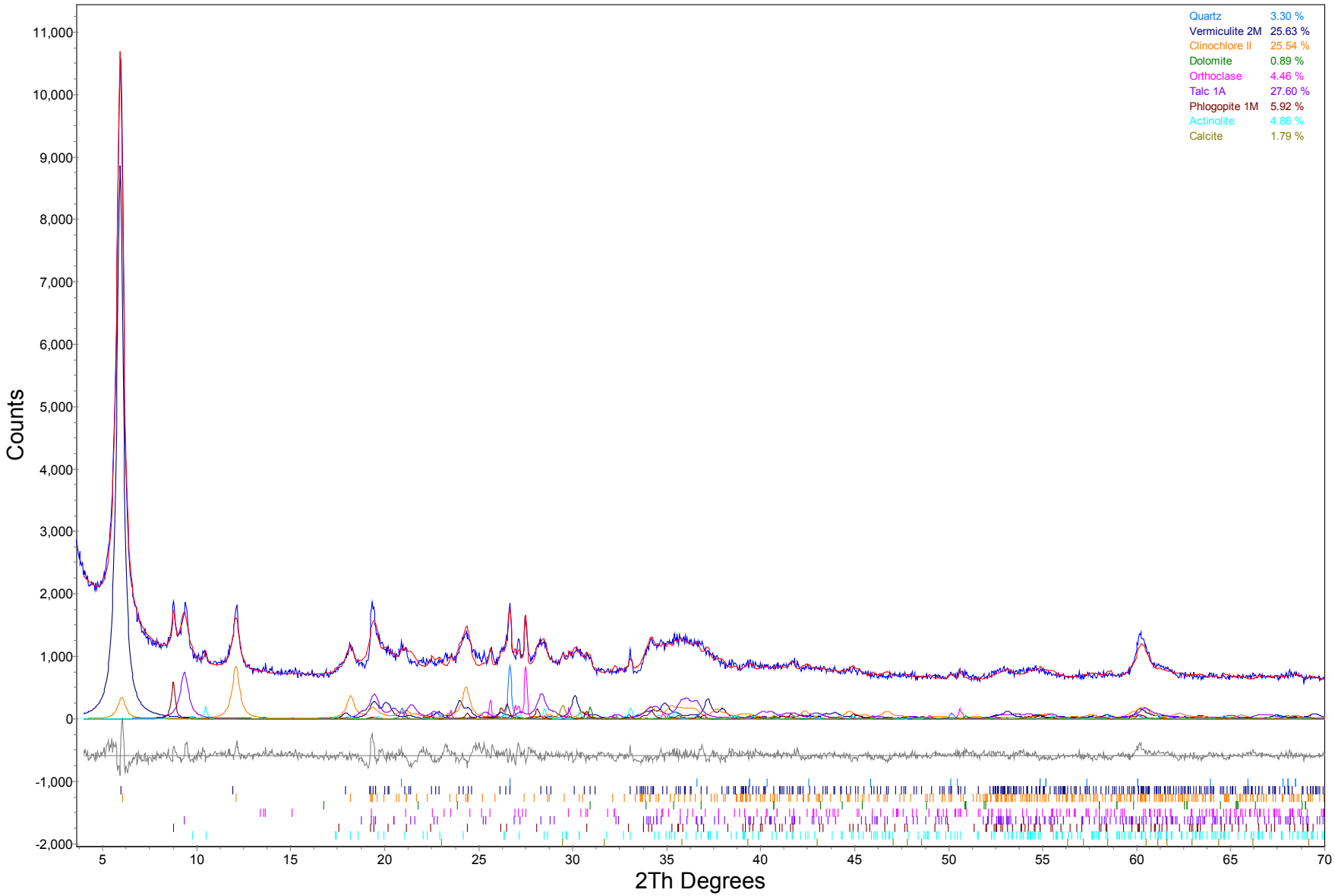


Figure 1. Rietveld refinement plot of sample **Amec-De Beers I-3** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

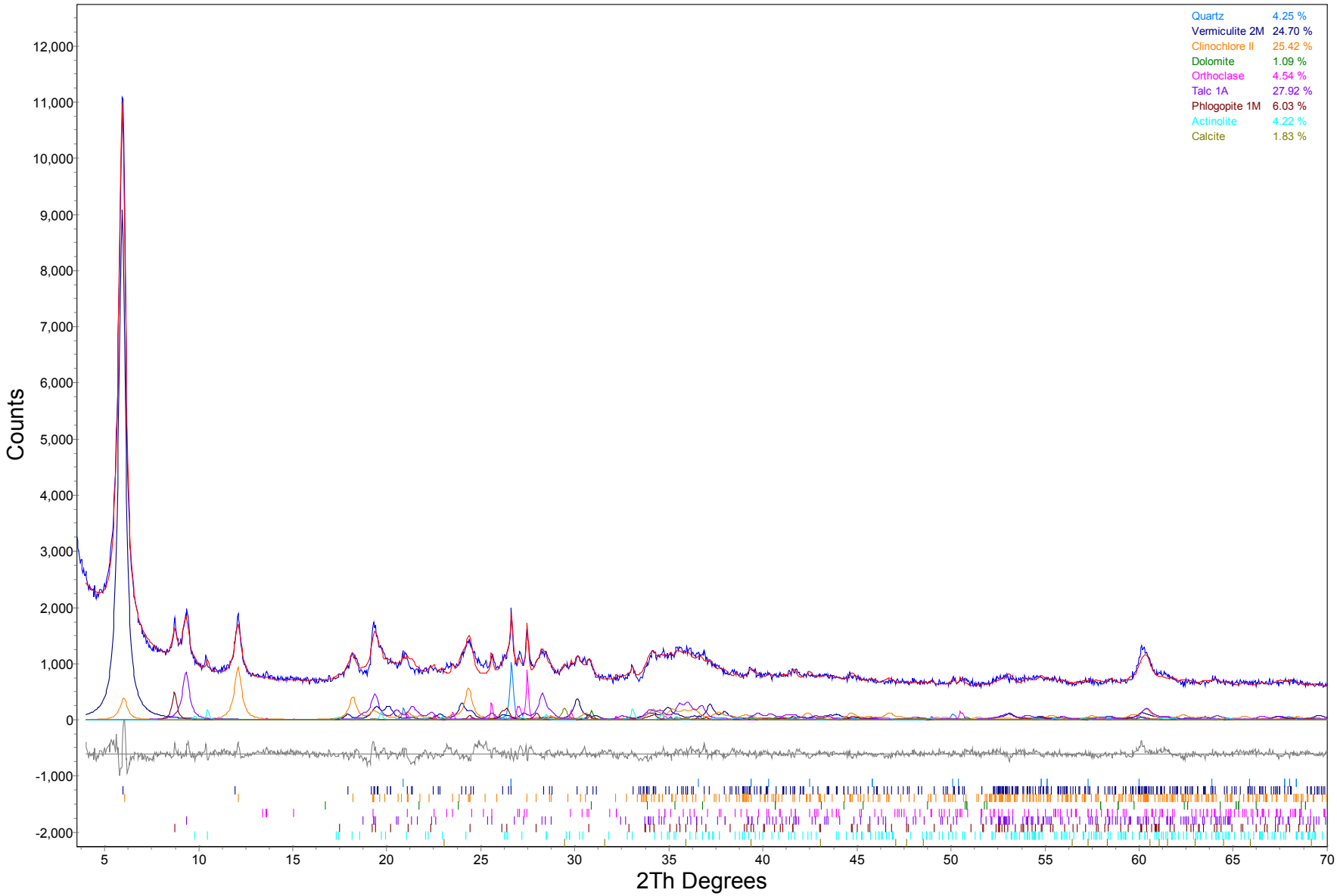


Figure 2. Rietveld refinement plot of sample **Amec-De Beers I-4** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

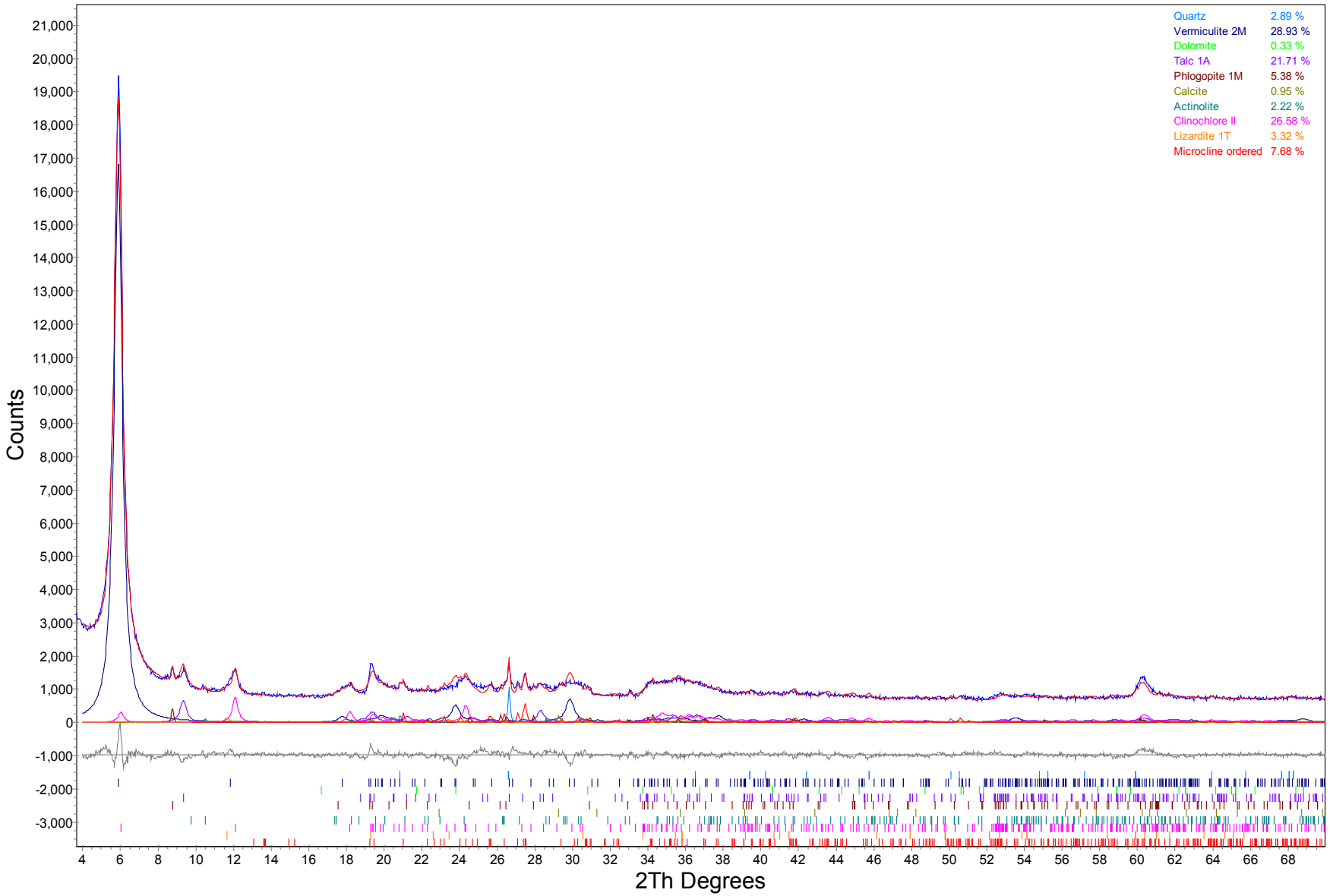


Figure 3. Rietveld refinement plot of sample **Amec-De Beers I-12** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

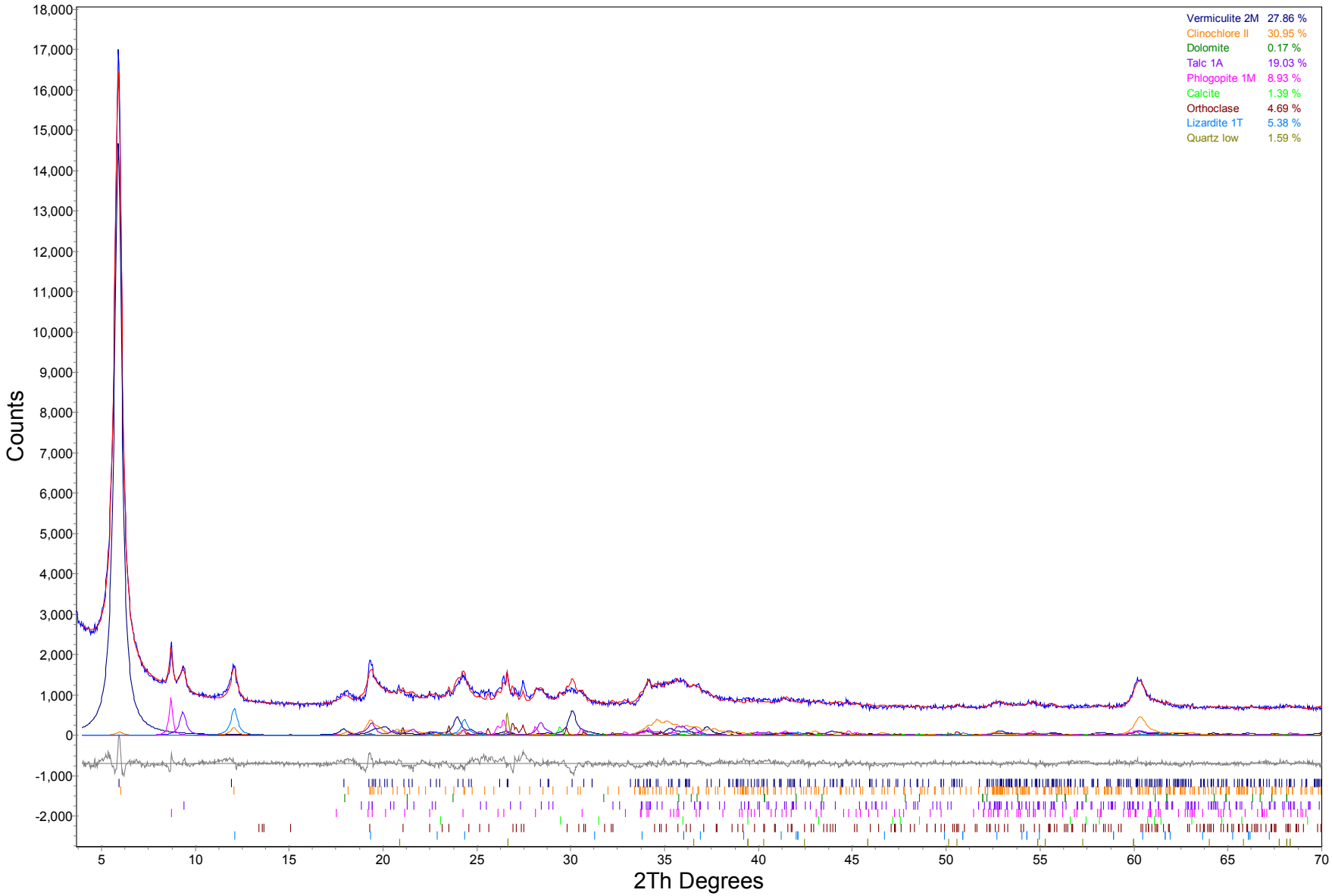


Figure 4. Rietveld refinement plot of sample **Amec-De Beers II-10** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

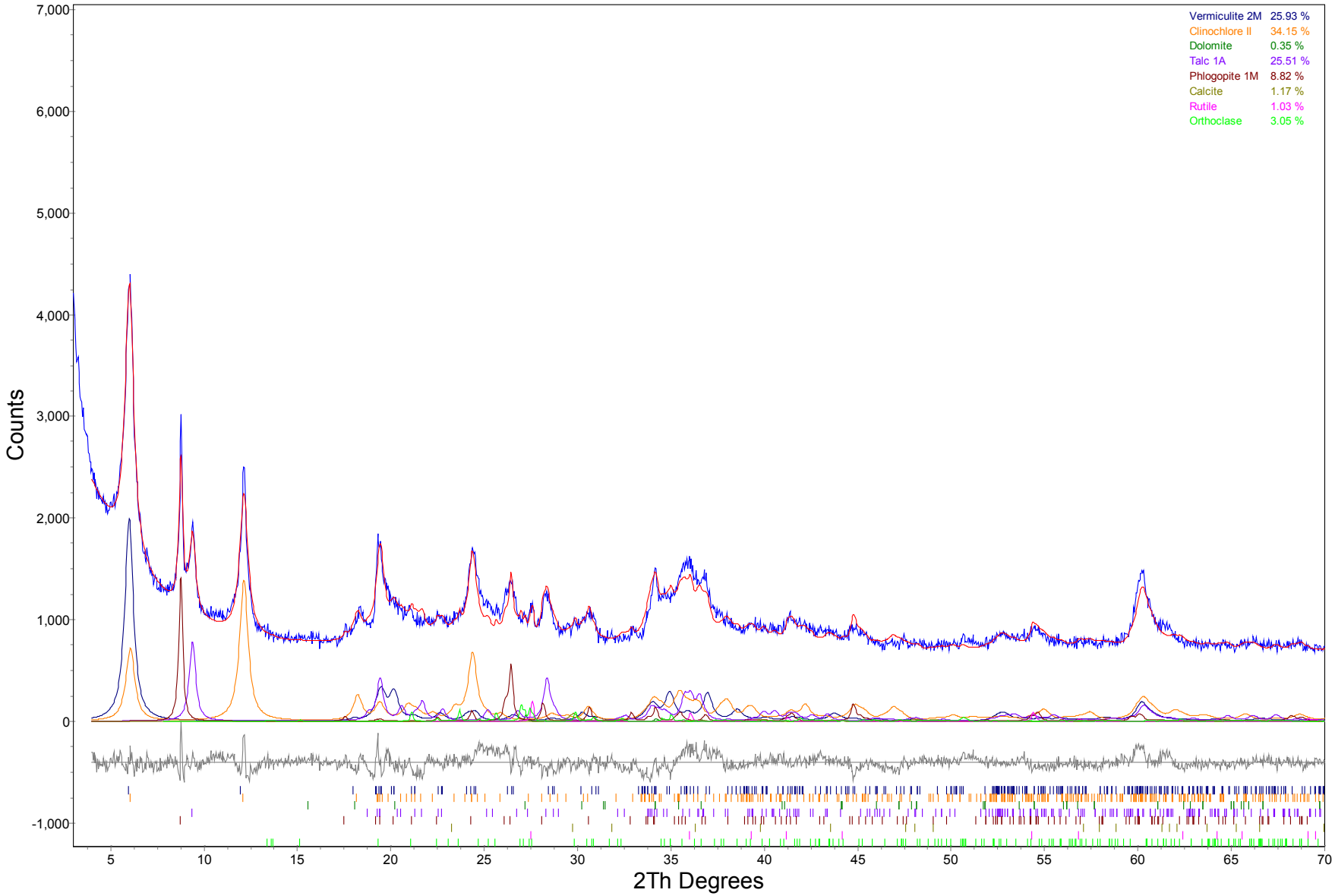


Figure 5. . Rietveld refinement plot of sample **Amec-De Beers II-13** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

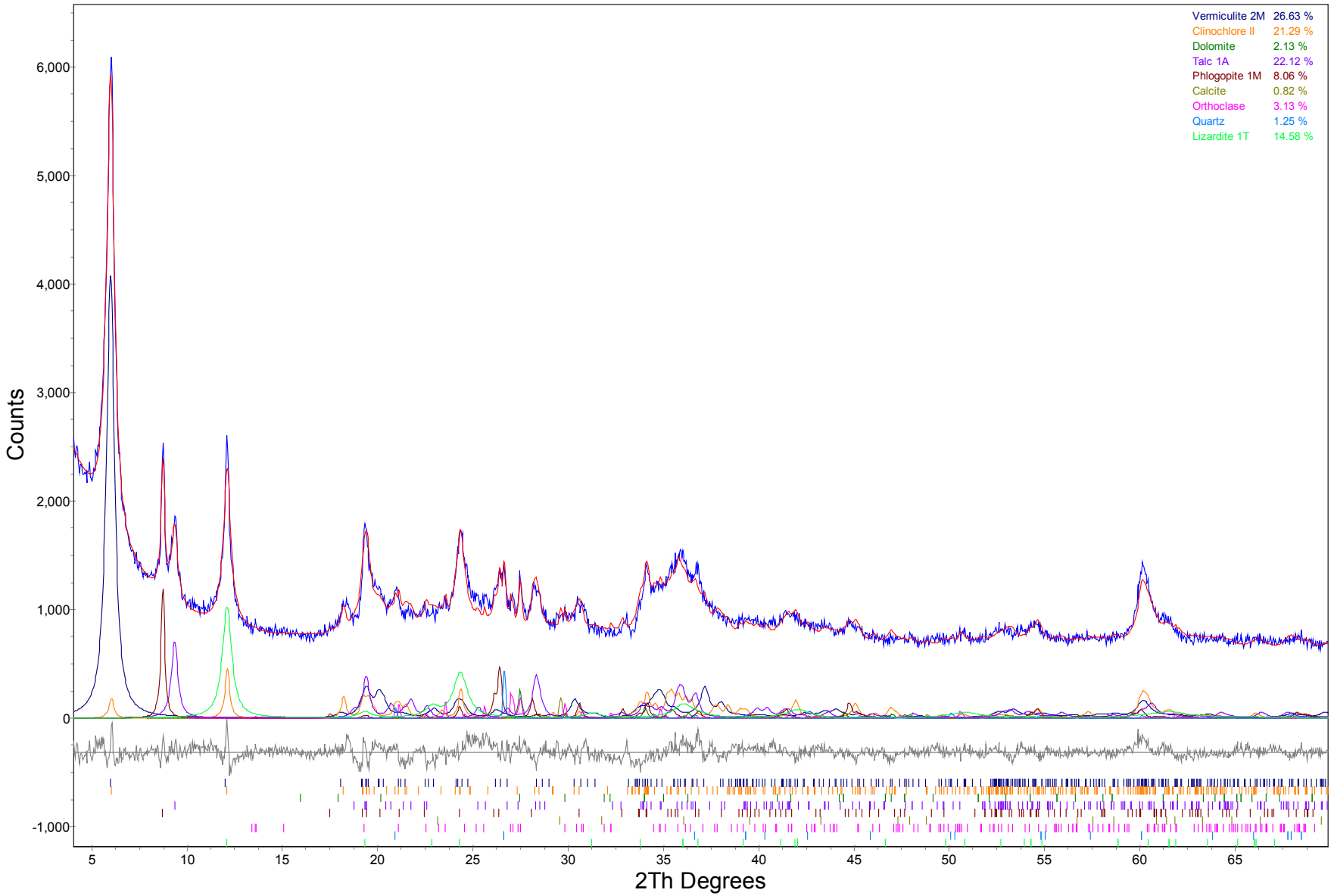


Figure 6. . Rietveld refinement plot of sample **Amec-De Beers II-17** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

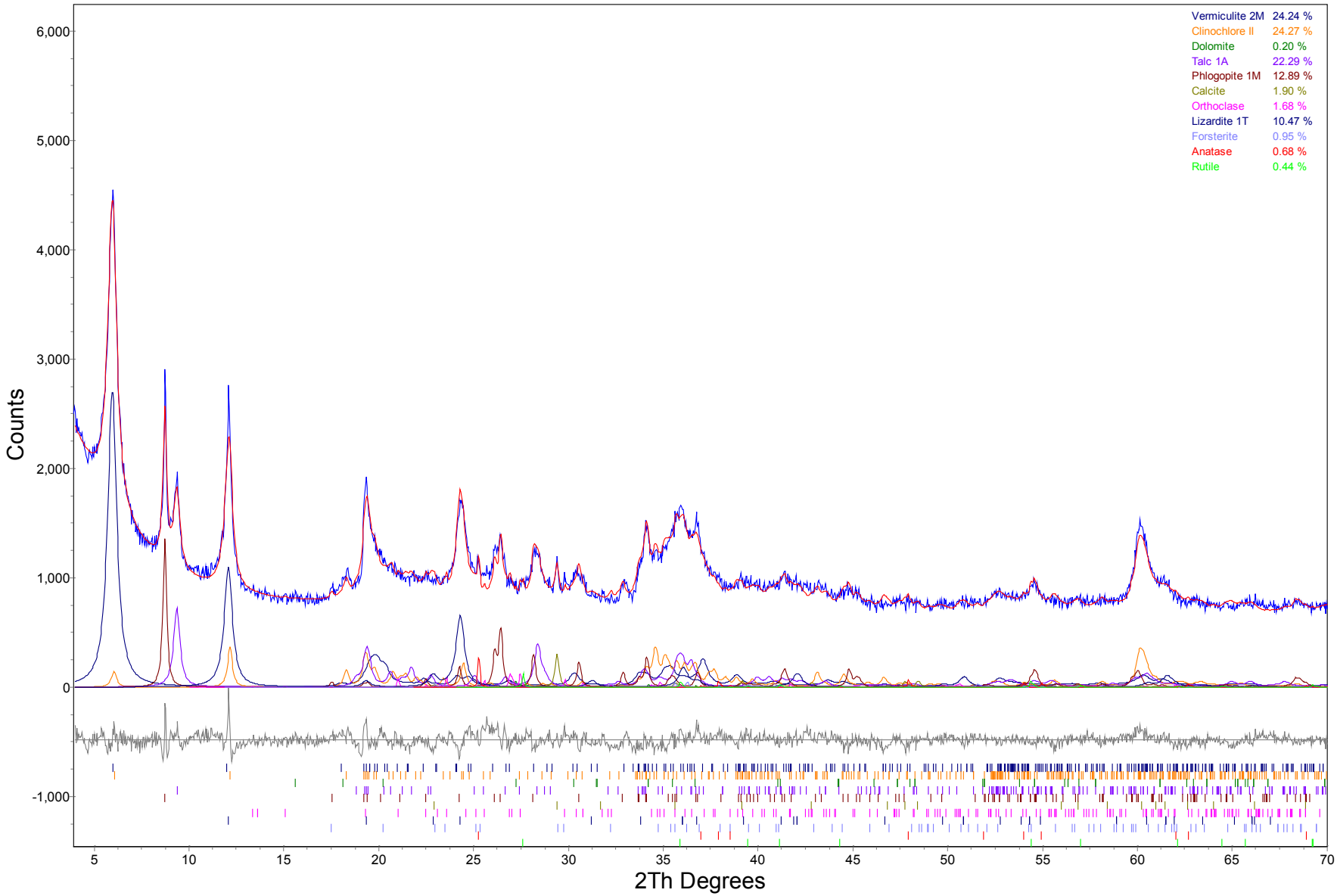


Figure 7. . Rietveld refinement plot of sample **Amec-De Beers II-18** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

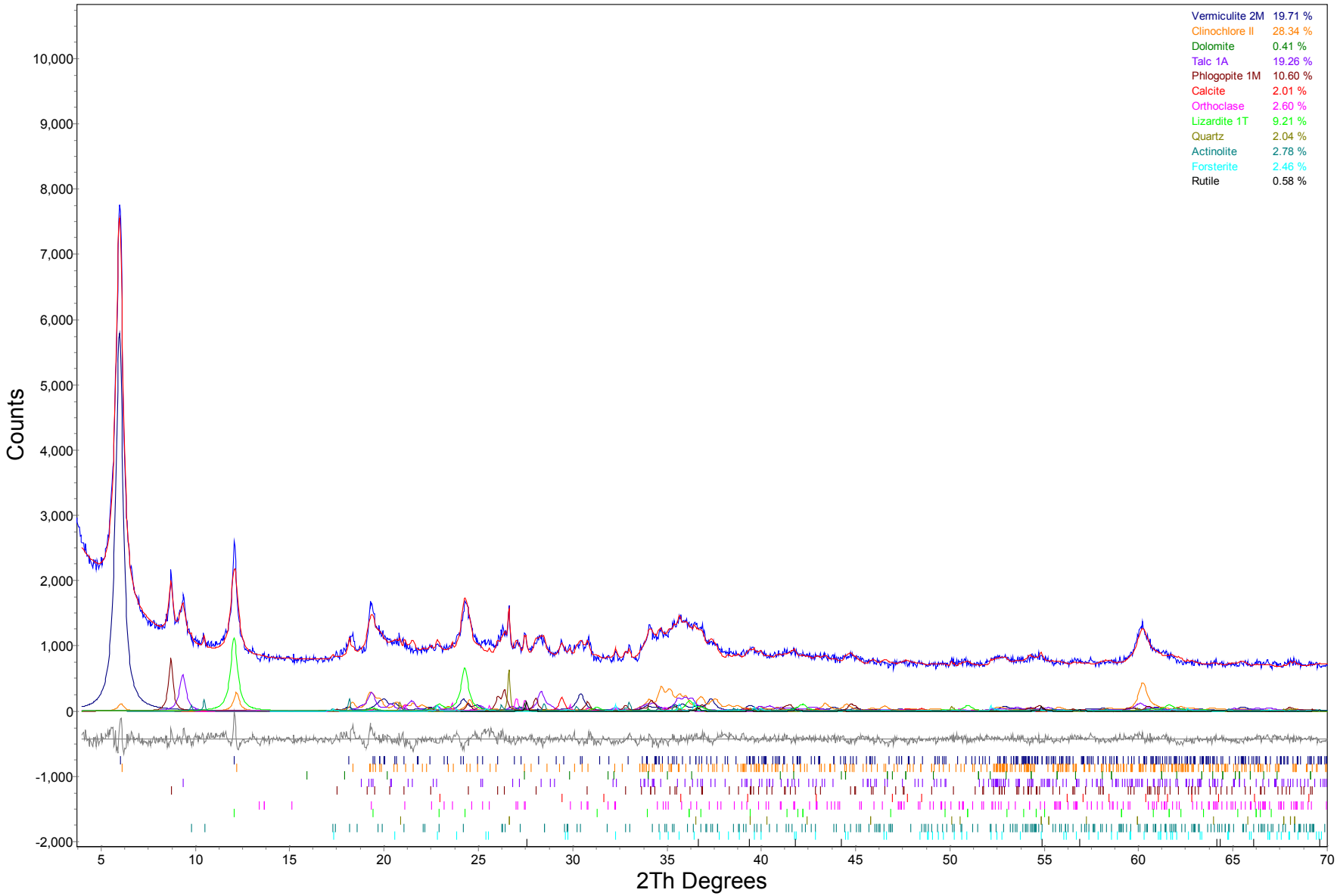


Figure 8. . Rietveld refinement plot of sample **Amec-De Beers III-1** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

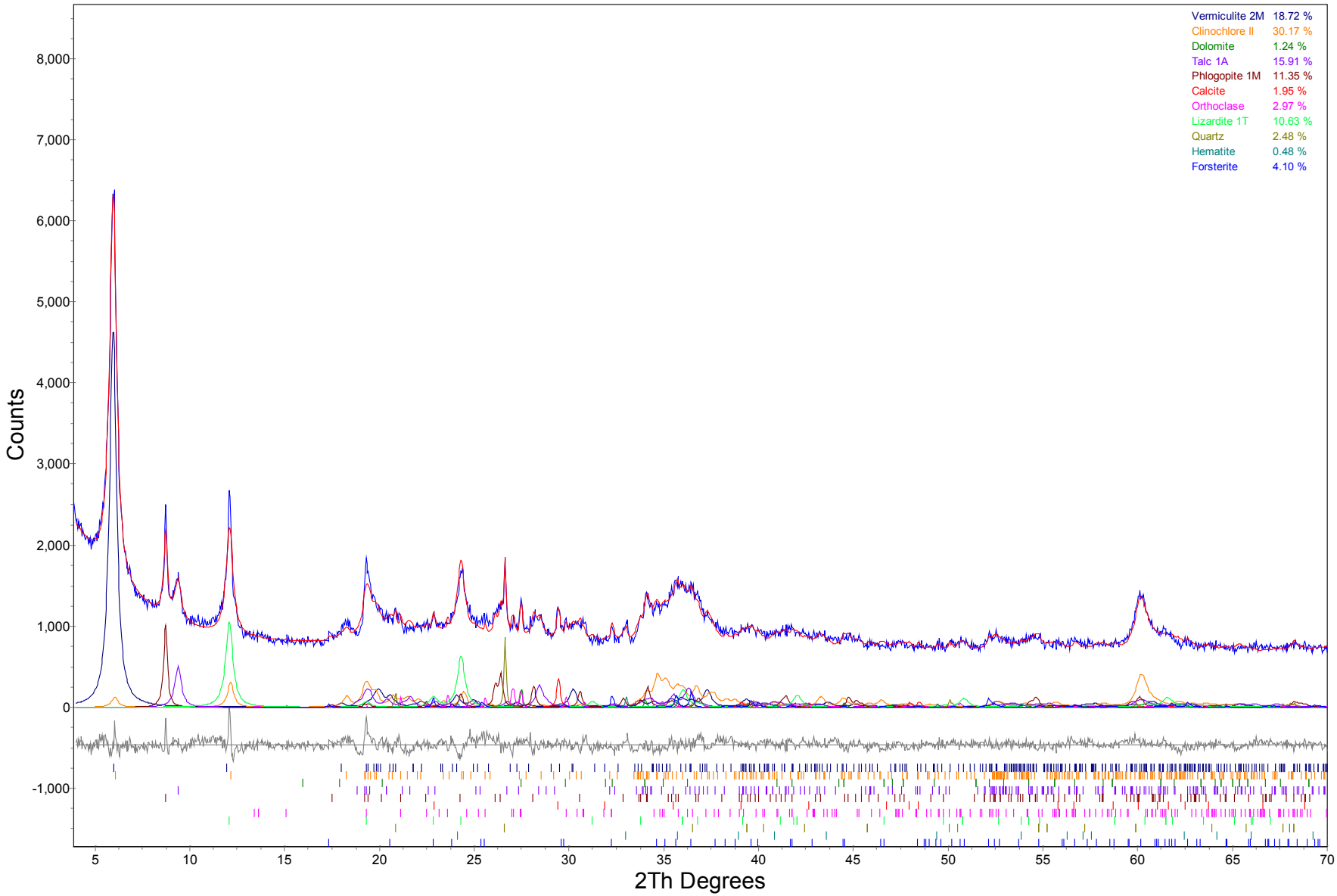


Figure 9. . Rietveld refinement plot of sample **Amec-De Beers IV1+IV2** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

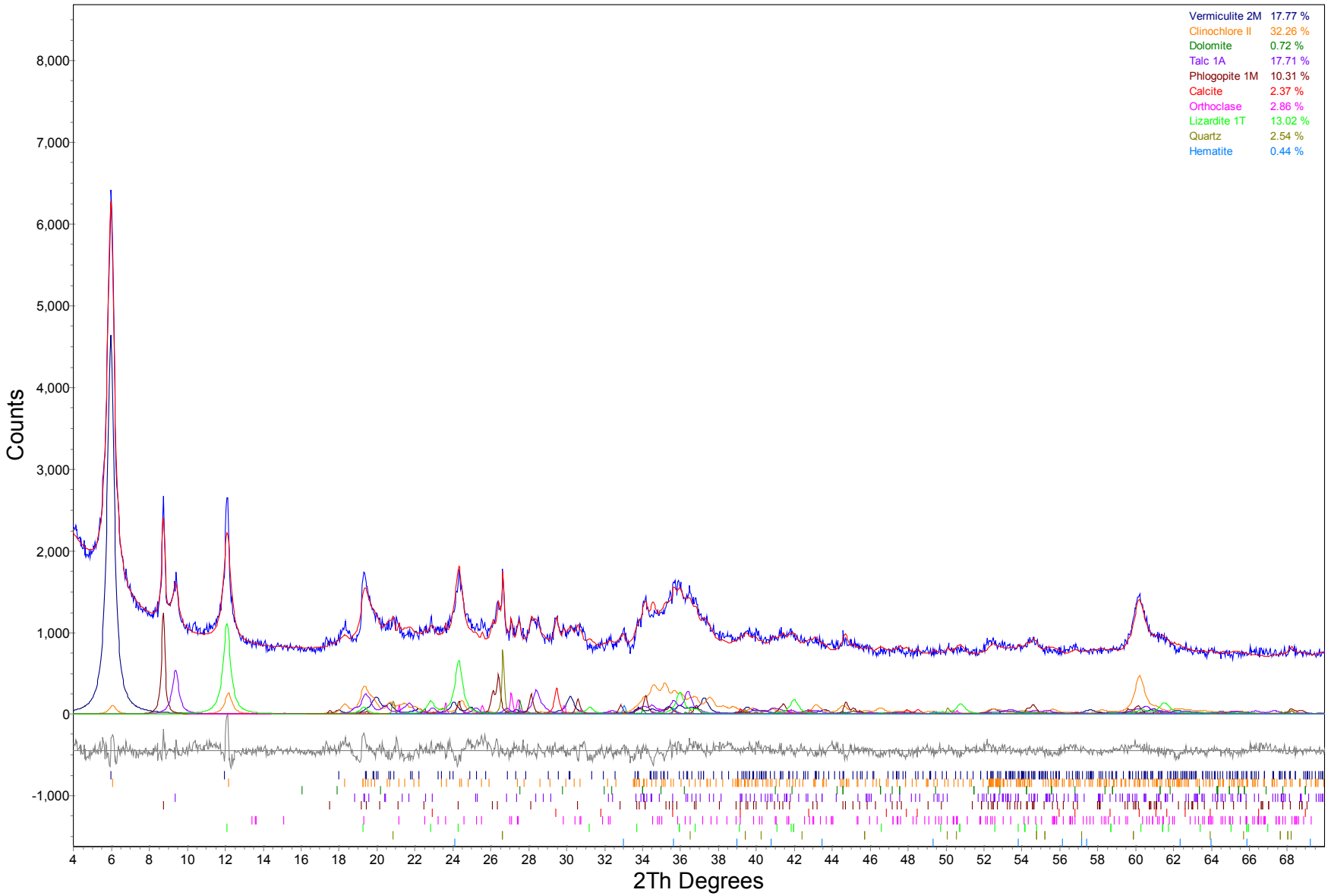


Figure 10. . Rietveld refinement plot of sample **Amec-De Beers V1+V2** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

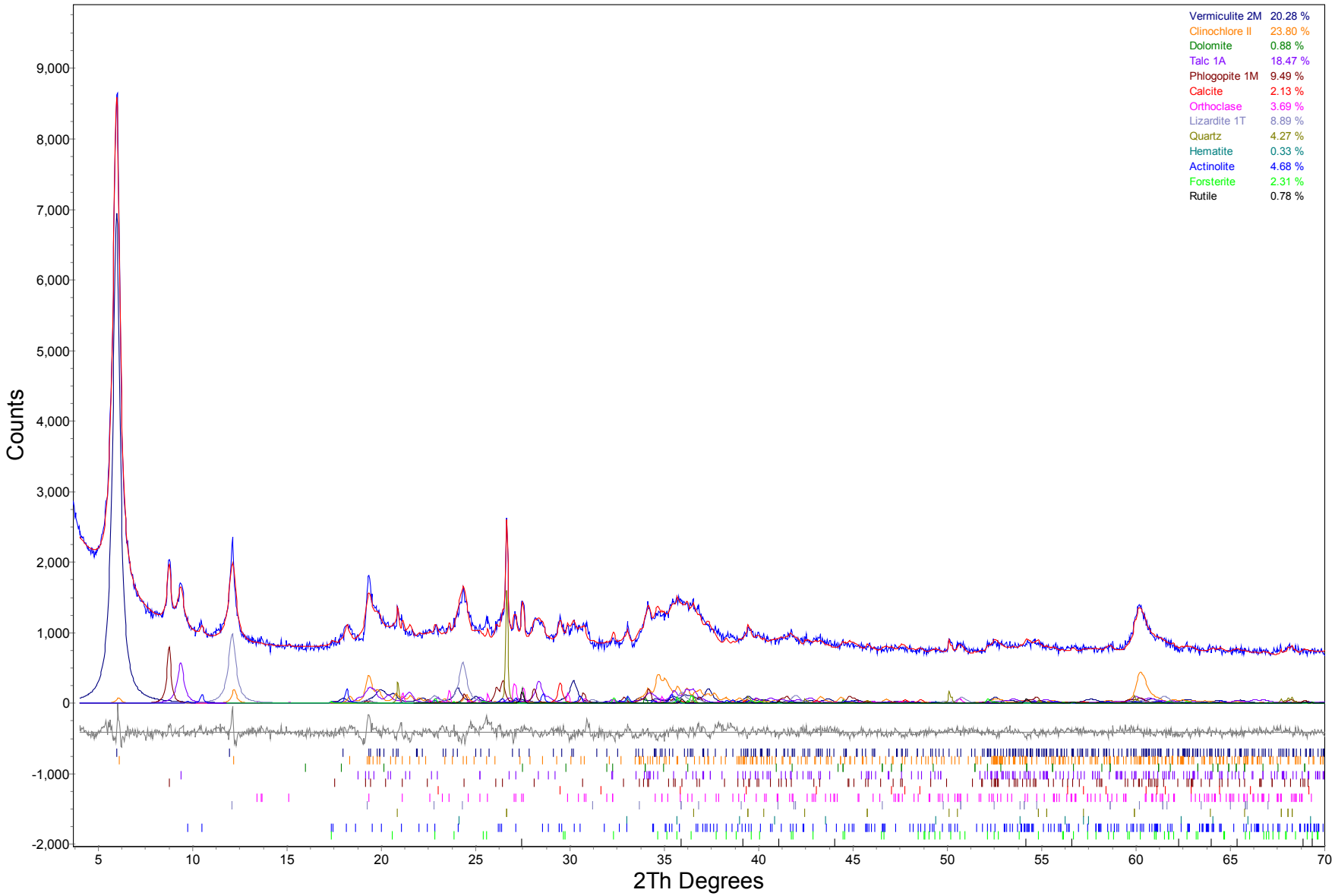


Figure 11. . Rietveld refinement plot of sample **Amec-De Beers VI-1** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

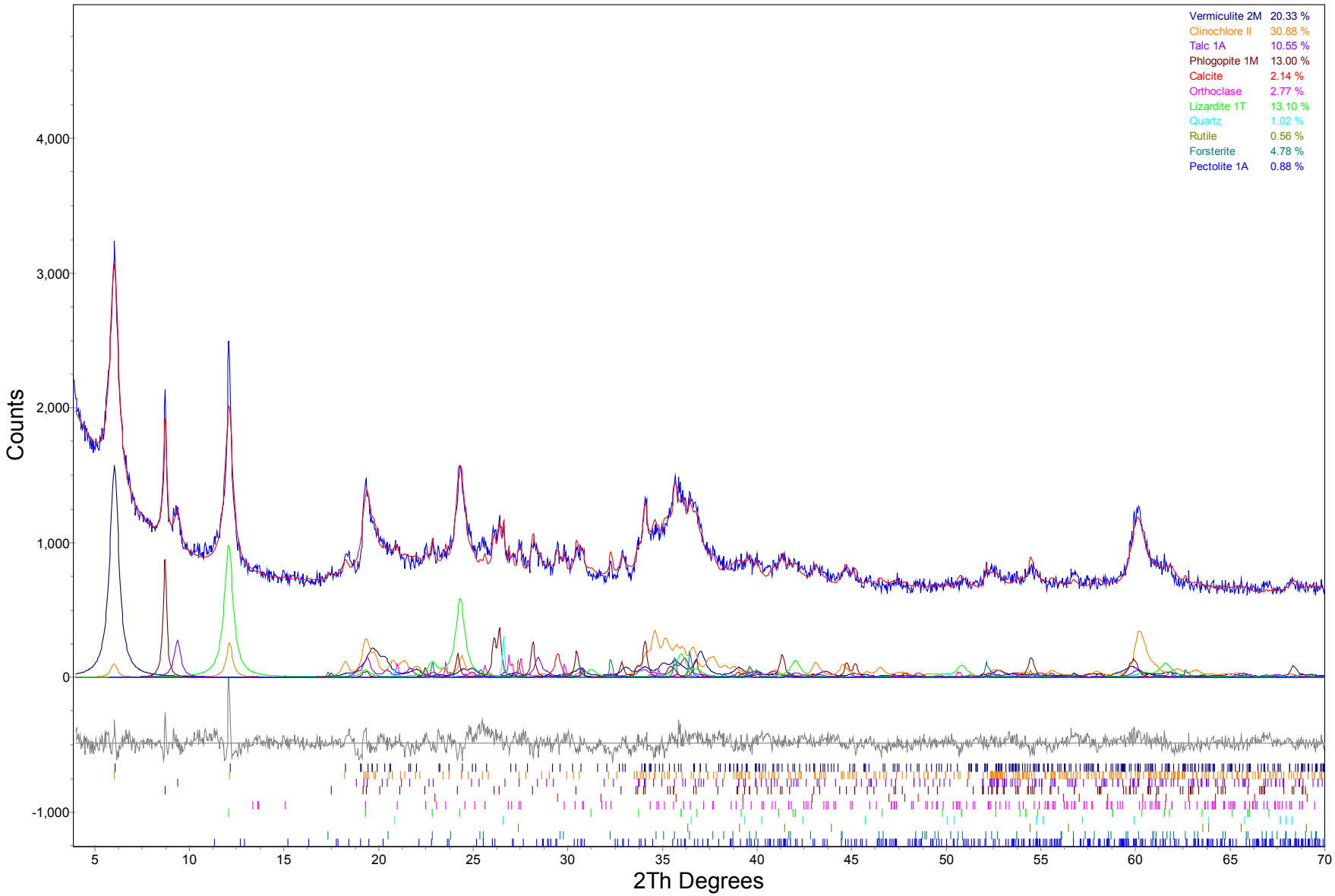


Figure 12. . Rietveld refinement plot of sample **Amec-De Beers VIII-1** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

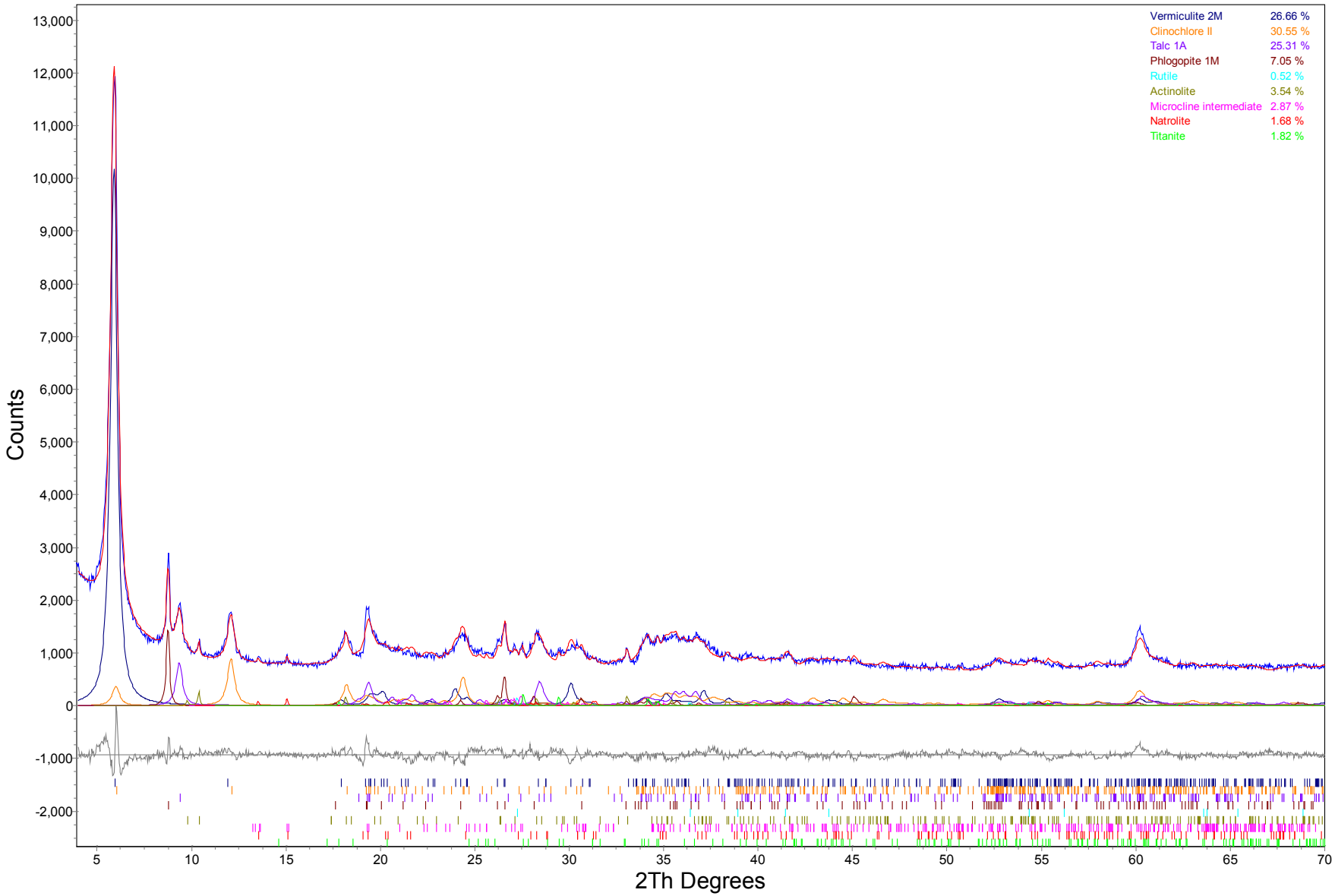


Figure 13. . Rietveld refinement plot of sample **Amec-De Beers 04 ARD 126-015** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

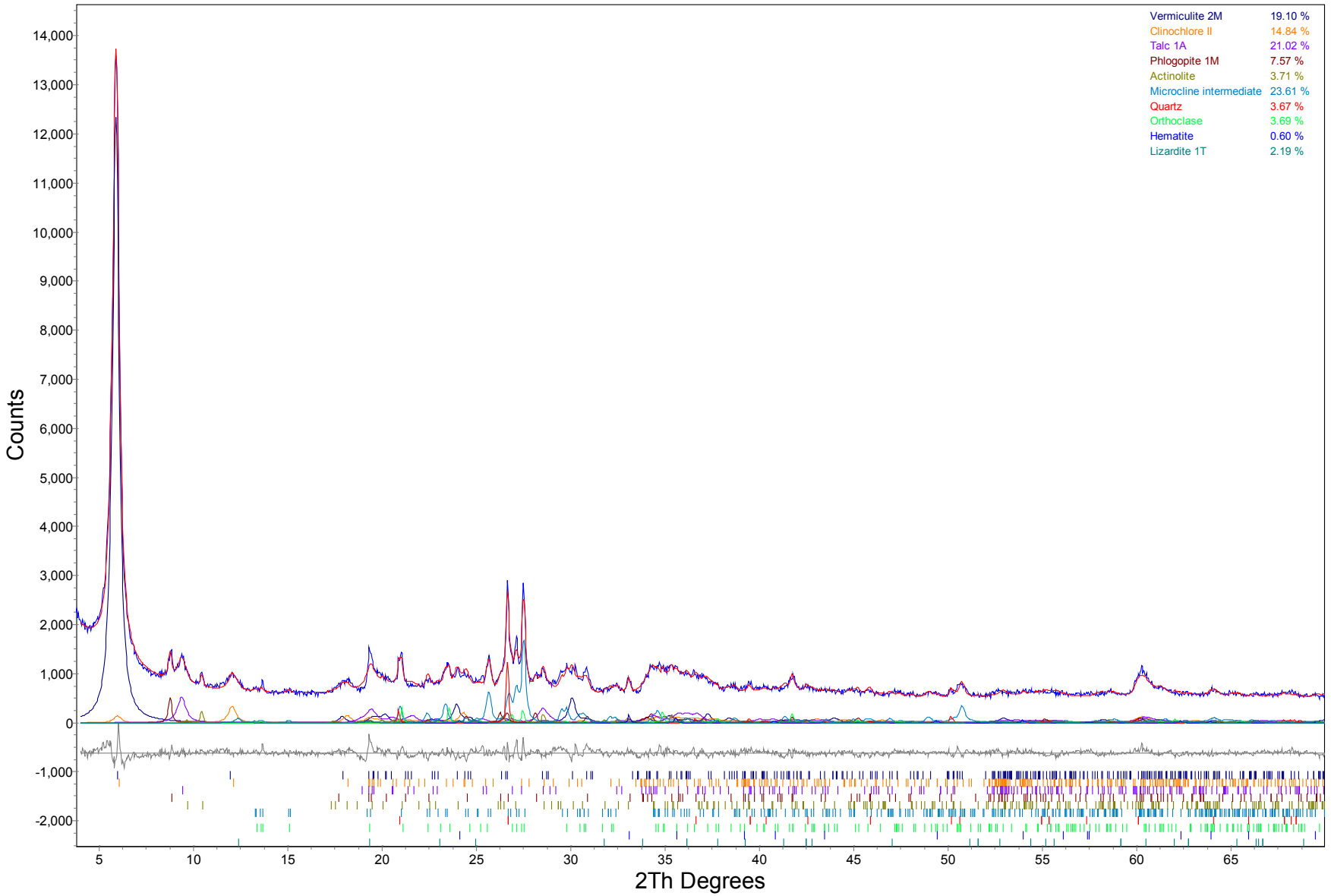


Figure 14. . Rietveld refinement plot of sample **Amec-De Beers 04 ARD 159-010** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

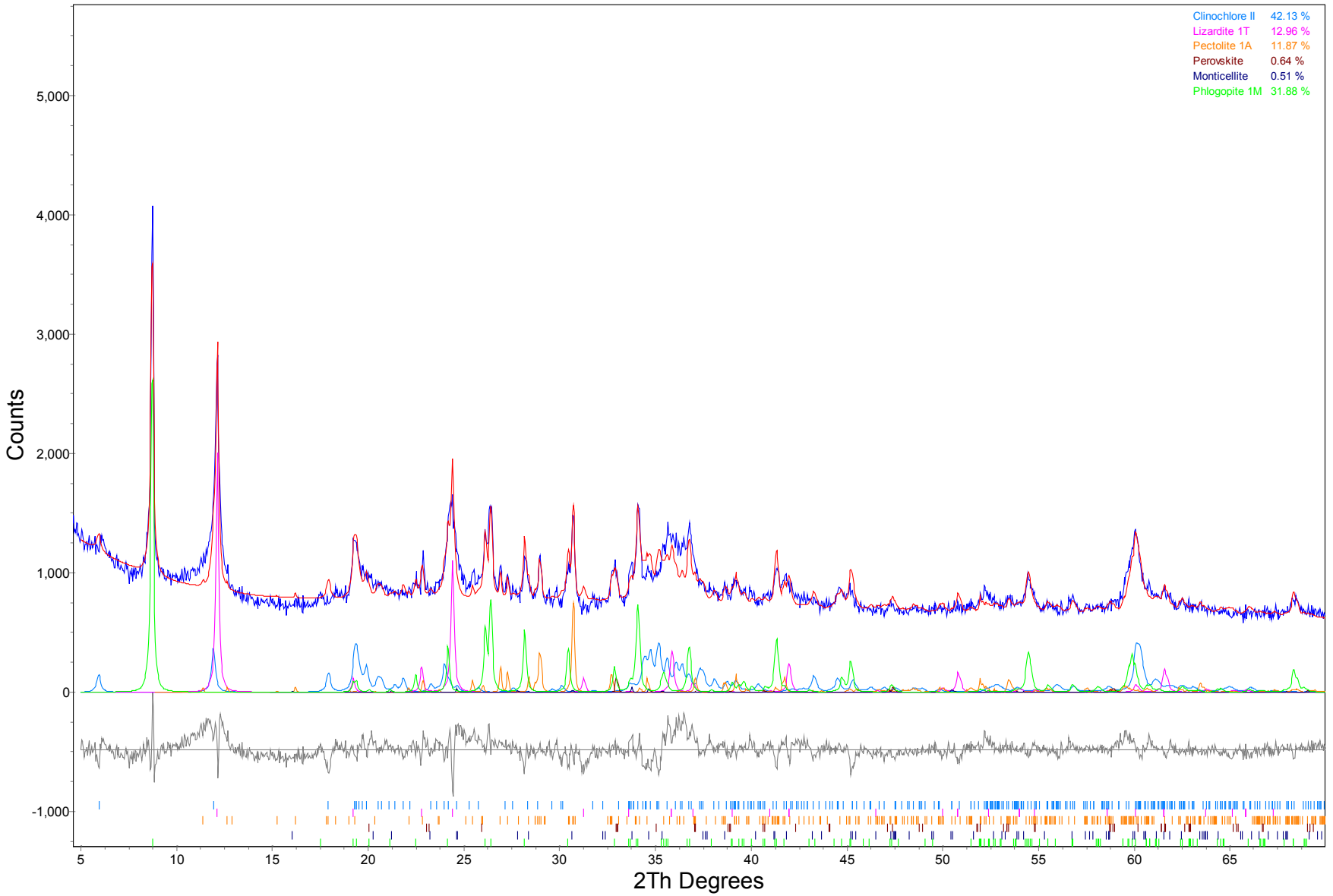


Figure 15. . Rietveld refinement plot of sample **Amec-De Beers 04 ARD 137-013** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

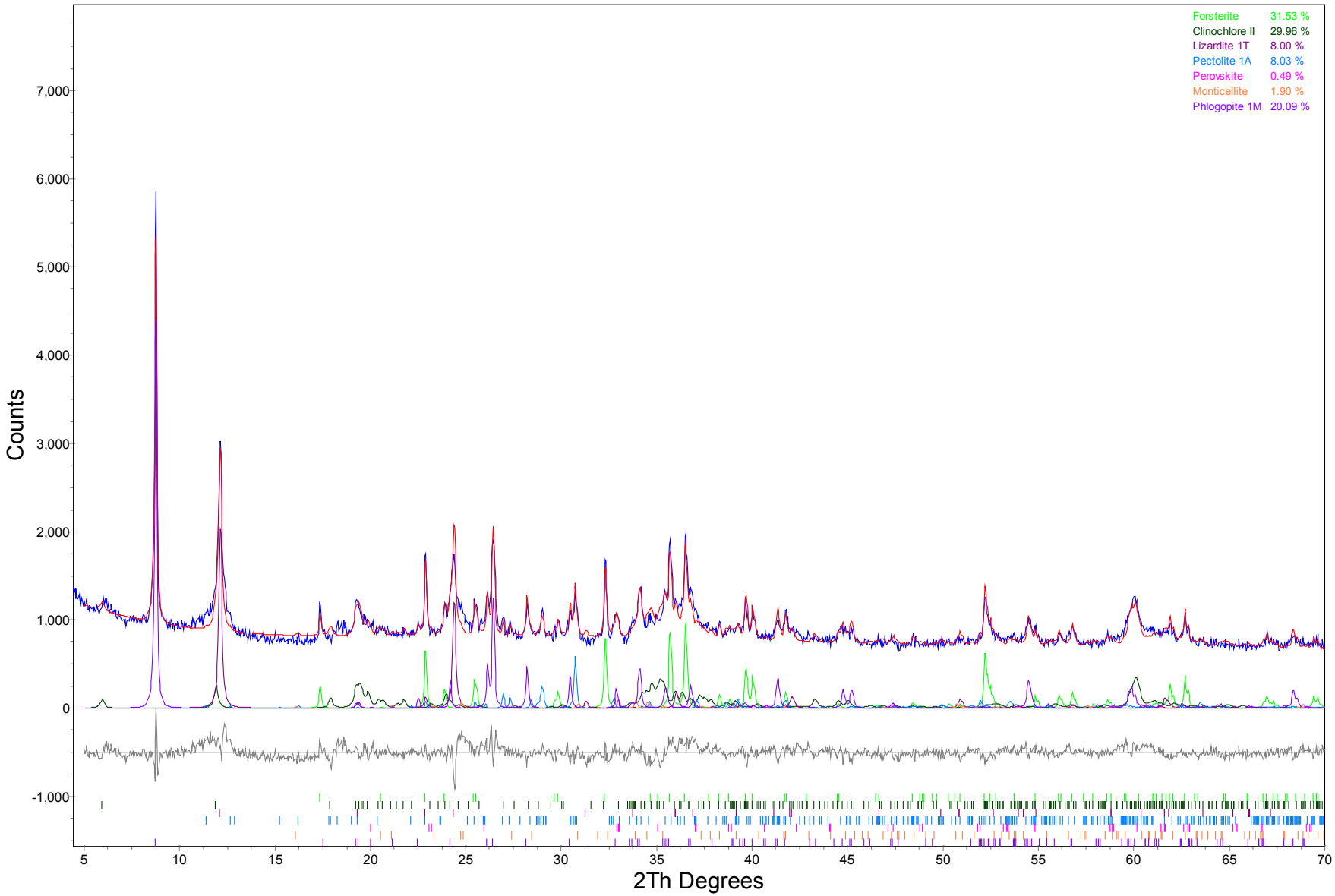


Figure 16. . Rietveld refinement plot of sample **Amec-De Beers 04 ARD 171-015** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

QUANTITATIVE PHASE ANALYSIS OF TWO POWDER SAMPLES USING THE RIETVELD METHOD AND X-RAY POWDER DIFFRACTION DATA.

(Project: 1042 DeBeers – PO# 42191)

Rik Vos
SGS CEMI Inc.
6927 Antrim Avenue
Burnaby, B.C. V5J 4M5

Mati Raudsepp, Ph.D.
Elisabetta Pani, Ph.D.
Jenny Lai, B.Sc.

Dept. of Earth & Ocean Sciences
6339 Stores Road
The University of British Columbia
Vancouver, BC V6T 1Z4

August 9, 2010

EXPERIMENTAL METHOD

The two samples "**PK – Coarse Composite" and "PK – Fines Composite 2**" of **Project 1042 DeBeers** 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 – 2.

Both samples contain a significant amount of clay, likely a member of the smectite-group (confirmed by glycolation). As these disordered clays do not have predictable crystal structures, we have used an empirical structure model for montmorillonite. Therefore the determined amounts of all phases are semi-quantitative. Any error (plus or minus) in the amount of smectite causes the total amount of other phases to be renormalized. As the smectite structure model is not constrained by atomic information, it fits all parts of the pattern not adequately fitted by other phases, nanoscale or amorphous components, or background model. Thus the error in determining the amount of smectite is likely on the side of over-estimation. In addition, small amounts of chlorite, if present, are obscured by the broad smectite and serpentine peaks and cannot be accounted for.

Table 1. Results of quantitative phase analysis (wt.%)

Mineral	**Ideal Formula**	**PK-coarse Composite**	**PK-fines Composite 2**
Quartz	SiO_2	10.7	5.1
Biotite	$K(Mg,Fe)_3(AlSi_3O_{10})(OH)_2$	13.4	9.3
Montmorillonite model	$(Na,Ca)_{0.3}(Al,Mg)_2Si_4O_{10}(OH)_2 \cdot nH_2O$	27.4	49.5
Talc	$Mg_3Si_4O_{10}(OH)_2$	12.4	11.1
Lizardite	$Mg_3Si_2O_5(OH)_4$	5.4	4.1
Jarosite ?	$K_2Fe_6^{3+}(SO_4)_4(OH)_{12}$	0.4	0.5
K-Feldspar	$KAlSi_3O_8$	8.8	6.6
Plagioclase	$NaAlSi_3O_8 – CaAl_2Si_2O_8$	12.7	6.4
Calcite ?	$CaCO_3$	0.4	0.8
Dolomite	$CaMg(CO_3)_2$	0.9	1.4
Diopside	$CaMgSi_2O_6$	1.9	1.7
Magnetite	Fe_3O_4	1.3	1.1
Forsterite	Mg_2SiO_4	4.2	2.4
Total		100.0	100.0

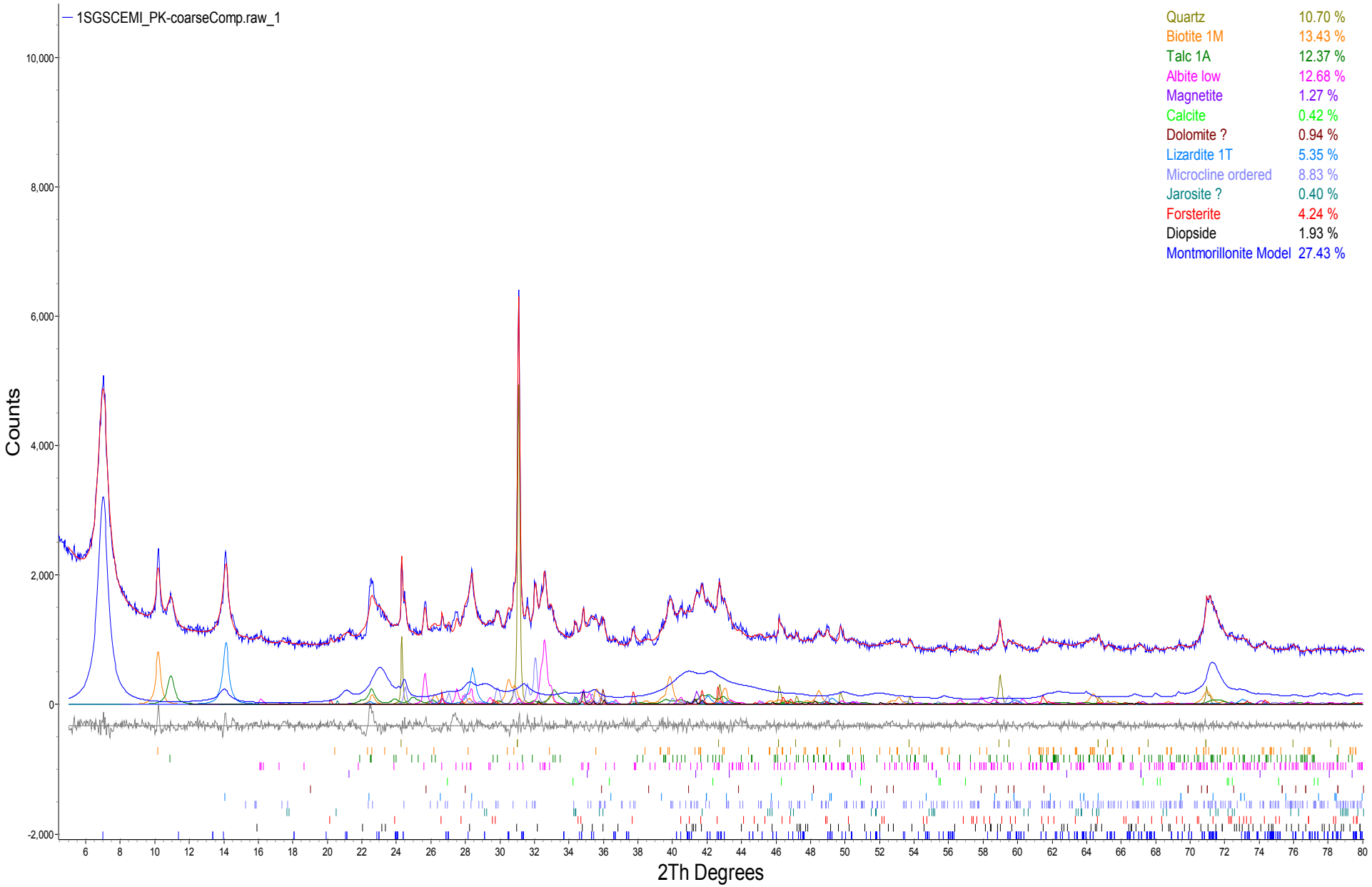


Figure 1. Rietveld refinement plot of sample **SGS CEMI "PK-coarse Composite"** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

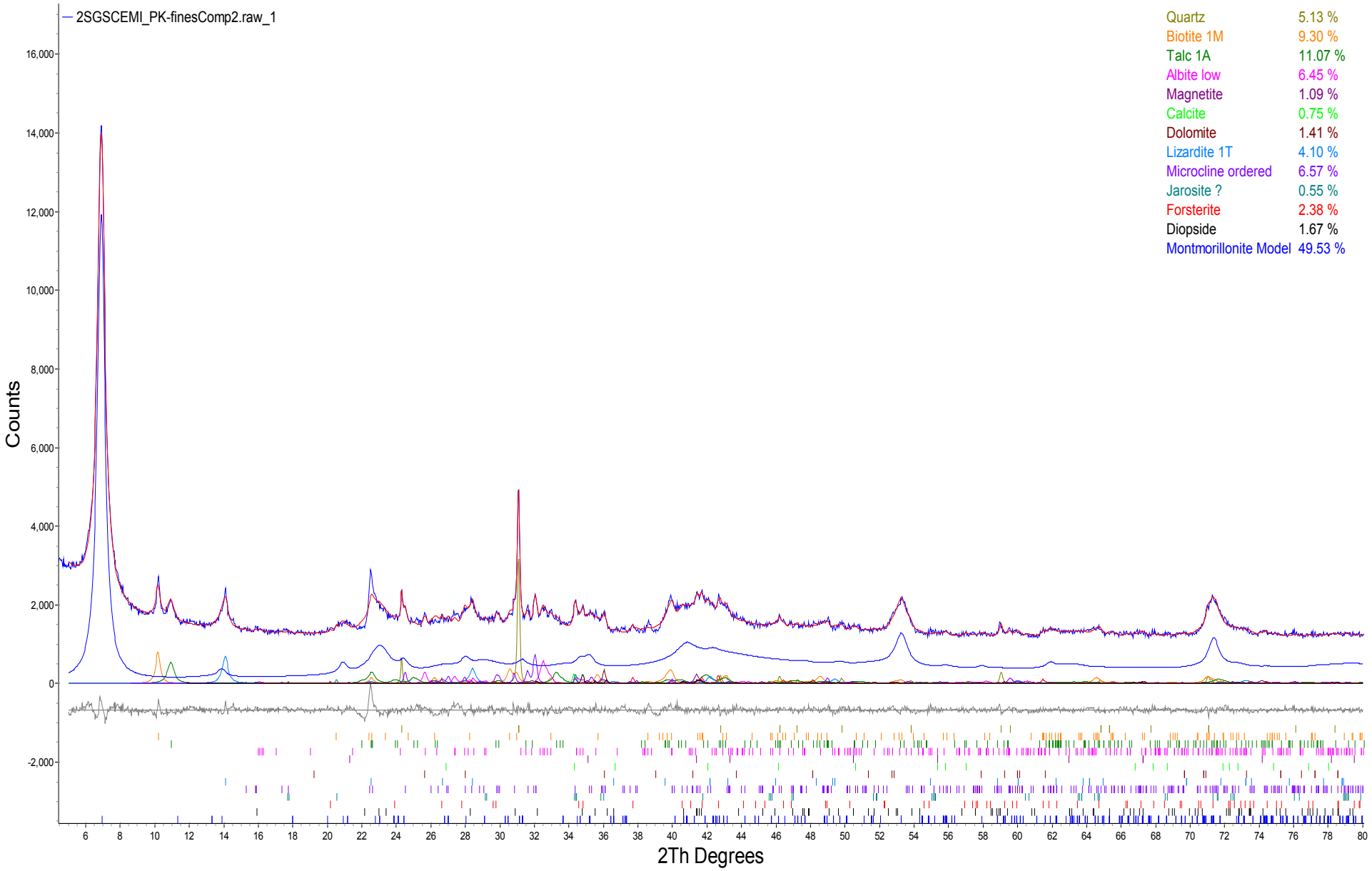


Figure 2. Rietveld refinement plot of sample **SGS CEMI "PK-fines Composite 2** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below – difference between observed and calculated intensities; vertical bars, positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.

ATTACHMENT 8.II.4

ACID BASE ACCOUNTING

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-199-050	5034	Altered Granite	7.60	0.11	0.37	0.01	0.37	11.6	4.5	-7.1	0.4	2.50
04-ARD-199-051	5034	Altered Granite	7.60	0.51	0.27	0.02	0.26	8.0	19.6	11.6	2.5	11.59
04-ARD-199-052	5034	Altered Granite	7.50	0.02	0.28	0.01	0.27	8.4	5.8	-2.6	0.7	0.45
04-ARD-199-053	5034	Altered Granite	8.10	1.31	0.28	0.01	0.28	8.8	30.2	21.5	3.5	29.77
04-ARD-199-054	5034	Altered Granite	7.90	0.12	0.28	0.01	0.28	8.8	8.5	-0.3	1.0	2.73
04-ARD-199-055	5034	Altered Granite	7.90	0.89	0.42	0.01	0.41	12.8	22.4	9.6	1.8	20.23
04-ARD-199-056	5034	Altered Granite	8.10	0.30	0.31	0.01	0.31	9.7	13.8	4.1	1.4	6.82
MPV-04-234C	5034	Altered Granite	8.60	0.22	0.04	0.01	0.04	1.3	53.7	52.5	43.0	5.00
MPV-04-234C	5034	Altered Granite	9.40	0.21	0.01	0.01	0.01	0.3	8.7	8.4	27.8	4.77
MPV-04-234C	5034	Altered Granite	8.60	0.03	0.03	0.01	0.03	0.9	3.7	2.8	3.9	0.68
04-ARD-191-006/007/008/009	Tuzo	Diabase	8.36	0.10	0.09	0.01	0.09	2.8	11.3	8.5	4.0	2.27
06-ARD-246-001	Tuzo	Diabase	8.99	0.01	0.11	0.01	0.11	3.4	11.3	7.8	3.3	0.11
06-ARD-276-016	Tuzo	Diabase	9.32	0.01	0.08	0.01	0.08	2.5	8.3	5.8	3.3	0.23
06-ARD-276-017	Tuzo	Diabase	9.30	0.06	0.09	0.01	0.09	2.8	5.5	2.7	1.9	1.36
06-ARD-276-018	Tuzo	Diabase	9.48	0.03	0.09	0.01	0.09	2.8	7.7	4.9	2.7	0.68
06-ARD-277-009	Tuzo	Diabase	8.79	0.01	0.11	0.01	0.11	3.4	10.3	6.9	3.0	0.23
06-ARD-277-023	Tuzo	Diabase	9.19	0.75	0.15	0.01	0.15	4.7	27.5	22.8	5.9	17.05
04-ARD-120-012	Hearne	Diorite	8.94	0.15	0.16	0.01	0.16	5.0	11.5	6.5	2.3	3.41
MPV-04-234C	5034	Gnessic Granite	9.20	0.09	0.01	0.01	0.01	0.3	5.0	4.7	16.0	2.05
MPV-04-234C	5034	Gnessic Granite	9.30	0.01	0.01	0.01	0.01	0.3	4.2	3.9	13.4	0.11
MPV-04-234C	5034	Gnessic Granite	9.30	0.16	0.02	0.01	0.02	0.6	4.2	3.6	6.7	3.64
MPV-04-234C	5034	Gnessic Granite	9.10	0.03	0.01	0.01	0.01	0.3	3.7	3.4	11.8	0.68
MPV-04-234C	5034	Gnessic Granite	9.20	0.05	0.05	0.01	0.05	1.6	3.2	1.6	2.0	1.14
MPV-04-234C	5034	Gnessic Granite	8.70	0.03	0.02	0.01	0.02	0.6	7.7	7.1	12.3	0.68
06-ARD-277-010	Tuzo	Gnessic Granite	9.46	0.01	0.13	0.01	0.13	4.1	3.5	-0.6	0.9	0.11
06-ARD-277-011	Tuzo	Gnessic Granite	9.58	0.01	0.29	0.01	0.29	9.1	3.2	-5.8	0.4	0.11
07-ARD-285-006	Tuzo	Gnessic Granite	8.94	0.01	0.01	0.01	0.01	0.3	3.5	3.2	11.6	0.11
04-ARD-122-022	5034	Granite	7.95	2.59	0.13	0.01	0.13	4.1	62.8	58.7	15.5	58.86
04-ARD-122-023	5034	Granite	7.89	0.09	0.23	0.01	0.23	7.2	7.5	0.3	1.0	2.05
04-ARD-122-024	5034	Granite	9.30	0.12	0.06	0.01	0.06	1.9	5.5	3.6	2.9	2.73
04-ARD-122-025	5034	Granite	9.18	0.12	0.06	0.01	0.06	1.9	7.2	5.3	3.8	2.73
04-ARD-124-009	5034	Granite	8.55	0.06	0.05	0.01	0.05	1.6	9.2	7.6	5.9	1.36
04-ARD-124-010	5034	Granite	8.56	0.04	0.01	0.01	0.01	0.3	10.2	9.9	34.0	0.91
04-ARD-124-011	5034	Granite	9.33	0.15	0.01	0.01	0.01	0.3	5.0	4.7	16.7	3.41
04-ARD-124-012	5034	Granite	9.18	0.05	0.03	0.01	0.03	0.9	5.5	4.6	5.9	1.14
04-ARD-124-013	5034	Granite	9.10	0.05	0.01	0.01	0.01	0.3	2.8	2.5	9.3	1.14
04-ARD-137-018	5034	Granite	8.38	0.04	0.01	0.01	0.01	0.3	4.8	4.5	16.0	0.91

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-139-002	5034	Granite	6.94	0.01	0.19	0.01	0.19	5.9	4.0	-1.9	0.7	0.11
04-ARD-139-003	5034	Granite	6.58	0.01	0.10	0.01	0.10	3.1	4.0	0.9	1.3	0.11
04-ARD-139-004	5034	Granite	8.05	0.01	0.01	0.01	0.01	0.3	4.3	4.0	14.3	0.11
04-ARD-139-005	5034	Granite	7.58	0.01	0.05	0.01	0.05	1.6	3.8	2.2	2.4	0.11
04-ARD-139-006	5034	Granite	8.40	0.04	0.01	0.01	0.01	0.3	3.8	3.5	12.7	0.91
04-ARD-139-007	5034	Granite	7.67	0.19	0.03	0.01	0.03	0.9	3.5	2.6	3.7	4.32
04-ARD-139-008	5034	Granite	7.65	0.07	0.06	0.01	0.05	1.6	3.0	1.4	1.9	1.59
04-ARD-139-009	5034	Granite	8.38	2.11	0.05	0.01	0.05	1.6	48.7	47.1	31.2	47.95
04-ARD-139-032	5034	Granite	7.95	5.76	0.43	0.01	0.43	13.4	131.0	117.6	9.7	130.91
04-ARD-139-033	5034	Granite	8.37	1.32	0.23	0.01	0.23	7.2	55.8	48.6	7.8	30.00
04-ARD-139-035	5034	Granite	9.00	0.10	0.08	0.01	0.08	2.5	7.6	5.1	3.0	2.27
04-ARD-139-036	5034	Granite	9.34	0.13	0.01	0.01	0.01	0.3	7.6	7.3	25.3	2.95
04-ARD-139-037	5034	Granite	9.25	0.10	0.01	0.01	0.01	0.3	7.3	7.0	24.3	2.27
04-ARD-139-038	5034	Granite	9.26	0.05	0.01	0.01	0.01	0.3	5.6	5.3	18.7	1.14
04-ARD-139-039	5034	Granite	9.08	0.14	0.03	0.01	0.03	0.9	7.6	6.7	8.1	3.18
04-ARD-145-001	5034	Granite	9.02	0.02	0.01	0.01	0.01	0.3	4.5	4.2	15.0	0.45
04-ARD-145-002	5034	Granite	9.06	0.01	0.01	0.01	0.01	0.3	0.8	0.5	2.7	0.23
04-ARD-145-003	5034	Granite	8.93	0.05	0.01	0.01	0.01	0.3	1.8	1.5	6.0	1.14
04-ARD-145-004	5034	Granite	8.84	0.04	0.01	0.01	0.01	0.3	1.5	1.2	5.0	0.91
04-ARD-145-005	5034	Granite	8.66	0.05	0.01	0.01	0.01	0.3	2.0	1.7	6.7	1.14
04-ARD-145-006	5034	Granite	8.57	0.03	0.01	0.01	0.01	0.3	1.0	0.7	3.3	0.68
04-ARD-145-007	5034	Granite	8.77	0.02	0.01	0.01	0.01	0.3	0.8	0.5	2.7	0.45
04-ARD-145-008	5034	Granite	8.90	0.08	0.01	0.01	0.01	0.3	0.8	0.5	2.7	1.82
04-ARD-145-009	5034	Granite	8.66	0.05	0.01	0.01	0.01	0.3	3.2	2.9	10.7	1.14
04-ARD-145-010	5034	Granite	9.12	0.04	0.01	0.01	0.01	0.3	2.5	2.2	8.3	0.91
04-ARD-145-011	5034	Granite	8.66	0.05	0.01	0.01	0.01	0.3	4.0	3.7	13.3	1.14
04-ARD-145-012	5034	Granite	8.60	0.02	0.01	0.01	0.01	0.3	3.0	2.7	10.0	0.45
04-ARD-145-013	5034	Granite	8.70	0.02	0.01	0.01	0.01	0.3	4.5	4.2	15.0	0.45
04-ARD-145-014	5034	Granite	8.64	0.03	0.01	0.01	0.01	0.3	5.0	4.7	16.7	0.68
04-ARD-145-015	5034	Granite	8.34	1.38	0.04	0.01	0.04	1.3	24.5	23.3	19.6	31.36
04-ARD-145-016	5034	Granite	8.32	2.20	0.03	0.01	0.03	0.9	54.0	53.1	57.6	50.00
04-ARD-149-016	5034	Granite	8.47	0.62	0.01	0.01	0.01	0.3	18.9	18.6	63.0	14.09
04-ARD-149-017	5034	Granite	8.60	1.84	0.02	0.01	0.02	0.6	39.6	39.0	63.4	41.82
04-ARD-149-018	5034	Granite	7.90	0.10	0.09	0.01	0.09	2.8	5.5	2.7	2.0	2.27
04-ARD-149-019	5034	Granite	8.30	0.12	0.07	0.01	0.07	2.2	8.8	6.6	4.0	2.73
04-ARD-149-020	5034	Granite	6.70	0.06	0.22	0.02	0.20	6.2	7.3	1.1	1.2	1.36
04-ARD-149-021	5034	Granite	7.60	0.10	0.15	0.01	0.15	4.7	7.0	2.3	1.5	2.27

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
4-ARD-149-022	5034	Granite	8.10	0.04	0.04	0.01	0.04	1.3	3.0	1.8	2.4	0.91
04-ARD-149-023	5034	Granite	6.00	0.08	0.21	0.01	0.21	6.6	5.5	-1.1	0.8	1.82
04-ARD-149-028	5034	Granite	8.40	0.16	0.02	0.03	0.01	0.3	4.8	4.5	16.0	3.64
04-ARD-168-001	5034	Granite	8.60	0.07	0.01	0.01	0.01	0.3	5.6	5.3	18.7	1.59
04-ARD-168-002	5034	Granite	8.60	0.10	0.01	0.01	0.01	0.3	3.0	2.7	10.0	2.27
04-ARD-168-003	5034	Granite	8.80	0.04	0.03	0.01	0.03	0.9	3.5	2.6	3.7	0.91
04-ARD-168-004	5034	Granite	8.51	0.01	0.02	0.01	0.02	0.6	1.3	0.7	2.1	0.11
04-ARD-168-005	5034	Granite	8.90	0.04	0.07	0.01	0.07	2.2	4.3	2.1	2.0	0.91
04-ARD-168-006	5034	Granite	8.65	0.03	0.03	0.01	0.03	0.9	0.5	-0.4	0.5	0.68
04-ARD-168-007	5034	Granite	8.23	0.01	0.67	0.01	0.67	20.9	5.0	-15.9	0.2	0.23
04-ARD-168-008	5034	Granite	8.88	0.01	0.02	0.01	0.02	0.6	4.3	3.7	6.9	0.11
04-ARD-168-009	5034	Granite	8.71	0.01	0.08	0.01	0.08	2.5	4.5	2.0	1.8	0.11
04-ARD-168-010	5034	Granite	8.70	0.01	0.03	0.01	0.03	0.9	3.5	2.6	3.7	0.11
04-ARD-168-011	5034	Granite	8.90	0.01	0.02	0.01	0.02	0.6	4.0	3.4	6.4	0.11
04-ARD-168-012	5034	Granite	8.84	0.01	0.01	0.01	0.01	0.3	2.5	2.2	8.3	0.11
04-ARD-168-013	5034	Granite	9.16	0.01	0.01	0.01	0.01	0.3	3.5	3.2	11.7	0.11
04-ARD-168-014	5034	Granite	9.23	0.01	0.21	0.01	0.21	6.6	5.0	-1.6	0.8	0.23
04-ARD-168-015	5034	Granite	9.28	0.13	0.05	0.01	0.05	1.6	5.5	3.9	3.5	2.95
04-ARD-168-016	5034	Granite	8.67	0.01	0.01	0.01	0.01	0.3	5.0	4.7	16.7	0.11
04-ARD-168-017	5034	Granite	8.55	0.08	0.01	0.01	0.01	0.3	2.8	2.5	9.3	1.82
04-ARD-168-018	5034	Granite	8.66	0.14	0.01	0.01	0.01	0.3	3.0	2.7	10.0	3.18
04-ARD-168-019	5034	Granite	8.68	0.27	0.03	0.01	0.03	0.9	11.5	10.6	12.3	6.14
04-ARD-168-020	5034	Granite	8.70	0.14	0.02	0.01	0.02	0.6	5.5	4.9	8.8	3.18
04-ARD-168-021	5034	Granite	8.77	0.03	0.01	0.01	0.01	0.3	3.8	3.5	12.7	0.68
04-ARD-168-022	5034	Granite	8.72	0.01	0.01	0.01	0.01	0.3	3.5	3.2	11.7	0.11
04-ARD-168-023	5034	Granite	8.85	0.09	0.02	0.01	0.02	0.6	5.0	4.4	8.0	2.05
04-ARD-168-024	5034	Granite	9.00	0.15	0.01	0.01	0.01	0.3	7.0	6.7	23.3	3.41
04-ARD-168-025	5034	Granite	8.91	0.31	0.01	0.01	0.01	0.3	7.8	7.5	26.0	7.05
04-ARD-168-026	5034	Granite	9.23	0.14	0.04	0.01	0.04	1.3	7.0	5.8	5.6	3.18
04-ARD-168-027	5034	Granite	8.92	0.19	0.04	0.01	0.04	1.3	5.0	3.8	4.0	4.32
04-ARD-168-028	5034	Granite	9.10	0.18	0.02	0.01	0.02	0.6	3.5	2.9	5.6	4.09
04-ARD-168-029	5034	Granite	9.05	0.07	0.05	0.01	0.05	1.6	6.5	4.9	4.2	1.59
04-ARD-168-030	5034	Granite	8.95	0.18	0.10	0.01	0.10	3.1	7.3	4.2	2.3	4.09
04-ARD-168-031	5034	Granite	9.10	0.29	0.01	0.01	0.01	0.3	11.8	11.5	39.3	6.59
04-ARD-168-032	5034	Granite	8.60	1.02	0.01	0.01	0.01	0.3	26.5	26.2	88.3	23.18
04-ARD-168-033	5034	Granite	9.00	0.11	0.05	0.01	0.05	1.6	7.5	5.9	4.8	2.50
04-ARD-168-034	5034	Granite	9.15	0.10	0.02	0.01	0.02	0.6	6.3	5.7	10.1	2.27

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-180-001	5034	Granite	9.19	0.06	0.01	0.01	0.01	0.3	1.8	1.5	6.0	1.36
04-ARD-180-002	5034	Granite	9.08	0.09	0.01	0.01	0.01	0.3	2.5	2.2	8.3	2.05
04-ARD-180-003	5034	Granite	9.04	0.16	0.01	0.01	0.01	0.3	4.3	4.0	14.3	3.64
04-ARD-180-004	5034	Granite	8.71	0.05	0.01	0.01	0.01	0.3	4.0	3.7	13.3	1.14
04-ARD-180-005	5034	Granite	8.78	0.06	0.01	0.01	0.01	0.3	2.5	2.2	8.3	1.36
04-ARD-180-006	5034	Granite	9.16	0.01	0.01	0.01	0.01	0.3	2.5	2.2	8.3	0.11
04-ARD-180-007	5034	Granite	8.85	0.07	0.01	0.01	0.01	0.3	1.0	0.7	3.3	1.59
04-ARD-180-008	5034	Granite	9.10	0.55	0.02	0.01	0.02	0.6	13.3	12.7	21.3	12.50
04-ARD-180-009	5034	Granite	8.89	0.17	0.02	0.01	0.02	0.6	4.5	3.9	7.2	3.86
04-ARD-180-010	5034	Granite	9.15	0.03	0.03	0.01	0.03	0.9	1.8	0.9	1.9	0.68
04-ARD-180-011	5034	Granite	9.24	0.03	0.06	0.01	0.06	1.9	2.5	0.6	1.3	0.68
04-ARD-180-012	5034	Granite	9.03	0.07	0.02	0.01	0.02	0.6	3.0	2.4	4.8	1.59
04-ARD-180-013	5034	Granite	8.74	0.06	0.01	0.01	0.01	0.3	2.3	2.0	7.7	1.36
04-ARD-180-014	5034	Granite	8.62	0.08	0.01	0.01	0.01	0.3	1.0	0.7	3.3	1.82
04-ARD-180-015	5034	Granite	8.72	0.06	0.02	0.01	0.02	0.6	1.5	0.9	2.4	1.36
04-ARD-180-016	5034	Granite	8.63	0.02	0.02	0.01	0.02	0.6	0.1	-0.5	0.2	0.45
04-ARD-180-017	5034	Granite	8.63	0.01	0.01	0.01	0.01	0.3	0.3	---	1.0	0.23
04-ARD-180-018	5034	Granite	8.73	0.01	0.01	0.01	0.01	0.3	3.8	3.5	12.7	0.11
04-ARD-180-019	5034	Granite	9.07	0.06	0.01	0.01	0.01	0.3	3.3	3.0	11.0	1.36
04-ARD-180-020	5034	Granite	9.01	0.05	0.02	0.01	0.02	0.6	3.0	2.4	4.8	1.14
04-ARD-180-021	5034	Granite	8.99	0.08	0.02	0.01	0.02	0.6	2.3	1.7	3.7	1.82
04-ARD-180-022	5034	Granite	9.02	0.07	0.02	0.01	0.02	0.6	5.0	4.4	8.0	1.59
04-ARD-180-023	5034	Granite	8.40	0.01	0.01	0.01	0.01	0.3	2.0	1.7	6.7	0.23
04-ARD-180-024	5034	Granite	8.80	0.11	0.03	0.01	0.03	0.9	6.0	5.1	6.4	2.50
04-ARD-180-025	5034	Granite	8.56	0.01	0.02	0.01	0.02	0.6	4.4	3.8	7.0	0.23
04-ARD-180-026	5034	Granite	8.61	0.08	0.01	0.01	0.01	0.3	2.8	2.5	9.3	1.82
04-ARD-180-027	5034	Granite	8.73	0.31	0.01	0.01	0.01	0.3	9.0	8.7	30.0	7.05
04-ARD-180-028	5034	Granite	9.09	0.20	0.01	0.01	0.01	0.3	4.3	4.0	14.3	4.55
04-ARD-180-029	5034	Granite	8.91	0.45	0.01	0.01	0.01	0.3	13.0	12.7	43.3	10.23
04-ARD-180-030	5034	Granite	8.44	0.15	0.01	0.01	0.01	0.3	5.8	5.5	19.3	3.41
04-ARD-180-031	5034	Granite	8.78	0.22	0.01	0.01	0.01	0.3	9.0	8.7	30.0	5.00
04-ARD-180-032	5034	Granite	8.64	0.03	0.02	0.01	0.02	0.6	3.3	2.7	5.3	0.68
04-ARD-180-033	5034	Granite	8.87	0.10	0.05	0.01	0.05	1.6	5.5	3.9	3.5	2.27
04-ARD-180-034	5034	Granite	9.11	0.11	0.05	0.01	0.05	1.6	3.8	2.2	2.4	2.50
04-ARD-180-035	5034	Granite	8.98	0.07	0.01	0.01	0.01	0.3	5.3	5.0	17.7	1.59
04-ARD-180-036	5034	Granite	8.87	0.04	0.02	0.01	0.02	0.6	4.0	3.4	6.4	0.91
04-ARD-180-037	5034	Granite	8.71	0.01	0.01	0.01	0.01	0.3	8.3	8.0	27.7	0.11

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-180-038	5034	Granite	8.84	0.12	0.01	0.01	0.01	0.3	6.0	5.7	20.0	2.73
04-ARD-180-039	5034	Granite	8.73	0.06	0.01	0.01	0.01	0.3	5.3	5.0	17.7	1.36
04-ARD-199-001	5034	Granite	8.89	0.10	0.01	0.01	0.01	0.3	7.0	6.7	23.3	2.27
04-ARD-199-002	5034	Granite	9.15	0.14	0.02	0.01	0.02	0.6	9.3	8.7	14.9	3.18
04-ARD-199-003	5034	Granite	9.06	0.11	0.01	0.01	0.01	0.3	6.9	6.6	23.0	2.50
04-ARD-199-004	5034	Granite	9.20	0.17	0.01	0.01	0.01	0.3	7.8	7.5	26.0	3.86
04-ARD-199-005	5034	Granite	9.29	0.09	0.01	0.01	0.01	0.3	9.3	9.0	31.0	2.05
04-ARD-199-007	5034	Granite	8.81	0.01	0.01	0.01	0.01	0.3	6.4	6.1	21.3	0.11
04-ARD-199-008	5034	Granite	8.99	0.10	0.02	0.01	0.02	0.6	8.1	7.5	13.0	2.27
04-ARD-199-009	5034	Granite	9.24	0.16	0.01	0.01	0.01	0.3	8.2	7.9	27.4	3.64
04-ARD-199-010	5034	Granite	9.45	0.01	0.01	0.01	0.01	0.3	2.4	2.1	8.0	0.11
04-ARD-199-011	5034	Granite	9.07	0.02	0.04	0.01	0.04	1.3	2.9	1.6	2.3	0.45
04-ARD-199-012	5034	Granite	9.10	0.01	0.01	0.01	0.01	0.3	0.6	0.3	2.0	0.23
04-ARD-199-013	5034	Granite	9.19	0.03	0.01	0.01	0.01	0.3	2.4	2.1	8.0	0.68
04-ARD-199-014	5034	Granite	9.17	0.01	0.01	0.01	0.01	0.3	1.9	1.6	6.3	0.11
04-ARD-199-015	5034	Granite	9.05	0.03	0.01	0.01	0.01	0.3	2.4	2.1	8.0	0.68
04-ARD-199-016	5034	Granite	9.00	0.01	0.01	0.01	0.01	0.3	1.4	1.1	4.6	0.11
04-ARD-199-017	5034	Granite	9.14	0.14	0.01	0.01	0.01	0.3	8.6	8.3	28.7	3.18
04-ARD-199-018	5034	Granite	8.79	0.03	0.02	0.01	0.02	0.6	3.7	3.0	5.8	0.68
04-ARD-199-019	5034	Granite	9.09	0.03	0.01	0.01	0.01	0.3	2.4	2.1	8.0	0.68
04-ARD-199-020	5034	Granite	8.99	0.03	0.01	0.01	0.01	0.3	0.6	0.3	2.0	0.68
04-ARD-199-021	5034	Granite	9.18	0.01	0.02	0.01	0.02	0.6	2.1	1.5	3.4	0.11
04-ARD-199-022	5034	Granite	9.01	0.06	0.03	0.01	0.03	0.9	3.9	3.0	4.2	1.36
04-ARD-199-023	5034	Granite	8.65	0.15	0.02	0.01	0.02	0.6	3.9	3.3	6.2	3.41
04-ARD-199-024	5034	Granite	9.20	0.03	0.03	0.01	0.03	0.9	2.9	2.0	3.1	0.68
04-ARD-199-025	5034	Granite	9.30	0.04	0.06	0.01	0.06	1.9	3.4	1.5	1.8	0.91
04-ARD-199-026	5034	Granite	9.30	0.04	0.04	0.01	0.04	1.3	2.9	1.6	2.3	0.91
04-ARD-199-027	5034	Granite	9.20	0.07	0.03	0.01	0.03	0.9	2.4	1.4	2.5	1.59
04-ARD-199-028	5034	Granite	9.40	0.05	0.03	0.01	0.03	0.9	3.9	3.0	4.2	1.14
04-ARD-199-029	5034	Granite	9.09	0.03	0.06	0.01	0.06	1.9	5.0	3.1	2.7	0.68
04-ARD-199-030	5034	Granite	9.28	0.01	0.02	0.01	0.02	0.6	3.3	2.7	5.3	0.23
04-ARD-199-031	5034	Granite	8.83	0.03	0.01	0.01	0.01	0.3	4.3	4.0	14.3	0.68
04-ARD-199-032	5034	Granite	9.12	0.05	0.10	0.01	0.10	3.1	7.3	4.2	2.3	1.14
04-ARD-199-033	5034	Granite	9.47	0.01	0.02	0.01	0.02	0.6	6.3	5.7	10.1	0.11
04-ARD-199-034	5034	Granite	9.04	0.05	0.01	0.01	0.01	0.3	3.3	3.0	11.0	1.14
04-ARD-199-035	5034	Granite	9.03	0.04	0.02	0.01	0.02	0.6	5.0	4.4	8.0	0.91
04-ARD-199-036	5034	Granite	9.10	0.04	0.03	0.01	0.03	0.9	3.0	2.1	3.2	0.91

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-199-037	5034	Granite	9.24	0.06	0.01	0.01	0.01	0.3	4.8	4.5	16.0	1.36
04-ARD-199-038	5034	Granite	8.82	0.12	0.01	0.01	0.01	0.3	4.3	4.0	14.3	2.73
04-ARD-199-039	5034	Granite	9.21	0.12	0.02	0.01	0.02	0.6	4.0	3.4	6.4	2.73
04-ARD-199-040	5034	Granite	8.90	0.10	0.03	0.01	0.03	0.9	5.5	4.6	5.9	2.27
04-ARD-199-041	5034	Granite	9.34	0.21	0.03	0.01	0.03	0.9	8.5	7.6	9.1	4.77
04-ARD-199-042	5034	Granite	9.32	0.09	0.02	0.01	0.02	0.6	4.3	3.7	6.9	2.05
04-ARD-199-043	5034	Granite	9.03	0.13	0.01	0.01	0.01	0.3	6.8	6.5	22.7	2.95
04-ARD-199-044	5034	Granite	9.04	0.10	0.06	0.01	0.06	1.9	7.0	5.1	3.7	2.27
04-ARD-199-045	5034	Granite	9.30	0.21	0.02	0.01	0.02	0.6	7.5	6.9	12.0	4.77
04-ARD-199-046	5034	Granite	9.12	0.05	0.01	0.01	0.01	0.3	9.0	8.7	30.0	1.14
04-ARD-199-047	5034	Granite	8.70	0.14	0.01	0.01	0.01	0.3	4.8	4.5	16.0	3.18
04-ARD-199-048	5034	Granite	8.70	0.11	0.02	0.01	0.02	0.6	9.0	8.4	14.4	2.50
04-ARD-199-049	5034	Granite	8.70	0.27	0.02	0.01	0.02	0.6	8.0	7.4	12.8	6.14
04-ARD-199-050	5034	Granite	7.60	0.11	0.37	0.01	0.37	11.6	4.5	-7.1	0.4	2.50
04-ARD-203-001	5034	Granite	8.30	0.02	0.01	0.01	0.01	0.3	5.3	5.0	17.7	0.45
04-ARD-203-002	5034	Granite	8.80	0.02	0.01	0.01	0.01	0.3	5.5	5.2	18.3	0.45
04-ARD-203-003	5034	Granite	9.10	0.12	0.01	0.01	0.01	0.3	7.0	6.7	23.3	2.73
04-ARD-203-004	5034	Granite	8.80	0.04	0.01	0.01	0.01	0.3	5.3	5.0	17.7	0.91
04-ARD-203-005	5034	Granite	8.90	0.12	0.02	0.01	0.02	0.6	6.8	6.2	10.9	2.73
04-ARD-203-006	5034	Granite	8.80	0.15	0.01	0.01	0.01	0.3	8.8	8.5	29.3	3.41
04-ARD-203-007	5034	Granite	9.00	0.03	0.02	0.01	0.02	0.6	5.8	5.2	9.3	0.68
04-ARD-203-008	5034	Granite	8.40	0.12	0.03	0.01	0.03	0.9	9.0	8.1	9.6	2.73
04-ARD-203-009	5034	Granite	8.70	0.09	0.02	0.01	0.02	0.6	8.8	8.2	14.1	2.05
04-ARD-203-010	5034	Granite	8.90	0.16	0.01	0.01	0.01	0.3	7.3	7.0	24.3	3.64
04-ARD-203-011	5034	Granite	8.90	0.16	0.02	0.01	0.02	0.6	7.0	6.4	11.2	3.64
04-ARD-203-012	5034	Granite	8.90	0.14	0.01	0.01	0.01	0.3	6.0	5.7	20.0	3.18
04-ARD-203-013	5034	Granite	8.50	0.02	0.01	0.01	0.01	0.3	6.0	5.7	20.0	0.45
04-ARD-203-014	5034	Granite	9.10	0.14	0.02	0.01	0.02	0.6	6.5	5.9	10.4	3.18
04-ARD-203-015	5034	Granite	8.60	0.05	0.01	0.01	0.01	0.3	3.3	3.0	11.0	1.14
04-ARD-203-016	5034	Granite	8.80	0.06	0.01	0.01	0.01	0.3	5.0	4.7	16.7	1.36
04-ARD-203-017	5034	Granite	9.00	0.08	0.01	0.01	0.01	0.3	3.5	3.2	11.7	1.82
04-ARD-203-018	5034	Granite	9.10	0.04	0.01	0.01	0.01	0.3	3.3	3.0	11.0	0.91
04-ARD-203-019	5034	Granite	9.30	0.10	0.01	0.01	0.01	0.3	4.0	3.7	13.3	2.27
04-ARD-203-020	5034	Granite	9.30	0.05	0.05	0.01	0.05	1.6	4.8	3.2	3.1	1.14
04-ARD-203-021	5034	Granite	9.10	0.06	0.02	0.01	0.02	0.6	3.5	2.9	5.6	1.36
04-ARD-203-022	5034	Granite	9.00	0.01	0.01	0.01	0.01	0.3	4.3	4.0	14.3	0.11
04-ARD-203-023	5034	Granite	9.00	0.01	0.01	0.01	0.01	0.3	3.5	3.2	11.7	0.11

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-203-024	5034	Granite	9.00	0.01	0.02	0.01	0.02	0.6	3.0	2.4	4.8	0.11
04-ARD-203-025	5034	Granite	9.00	0.01	0.01	0.01	0.01	0.3	4.8	4.5	16.0	0.11
04-ARD-203-026	5034	Granite	9.00	0.01	0.01	0.01	0.01	0.3	3.5	3.2	11.7	0.11
04-ARD-203-027	5034	Granite	8.90	0.04	0.01	0.01	0.01	0.3	4.8	4.5	16.0	0.91
04-ARD-203-028	5034	Granite	8.60	0.01	0.01	0.01	0.01	0.3	2.0	1.7	6.7	0.11
04-ARD-203-029	5034	Granite	7.80	0.01	0.05	0.01	0.05	1.6	3.5	1.9	2.2	0.11
04-ARD-203-030	5034	Granite	8.80	0.11	0.02	0.01	0.02	0.6	4.8	4.2	7.7	2.50
05-ARD-241-001	5034	Granite	8.82	0.07	0.02	0.01	0.02	0.6	4.4	3.8	7.0	1.59
05-ARD-241-002	5034	Granite	8.73	0.07	0.02	0.01	0.02	0.6	2.4	1.8	3.8	1.59
05-ARD-241-003	5034	Granite	8.93	0.02	0.11	0.01	0.11	3.4	3.4	0.0	1.0	0.45
05-ARD-241-004	5034	Granite	8.81	0.01	0.02	0.01	0.02	0.6	0.4	-0.2	0.6	0.23
05-ARD-241-005	5034	Granite	8.78	0.03	0.07	0.01	0.07	2.2	4.7	2.5	2.1	0.68
05-ARD-241-006	5034	Granite	8.74	0.07	0.02	0.01	0.02	0.6	3.7	3.1	5.9	1.59
05-ARD-241-007	5034	Granite	8.59	0.01	0.04	0.01	0.04	1.3	2.9	1.7	2.3	0.11
05-ARD-241-008	5034	Granite	5.62	0.09	1.26	0.02	1.24	38.7	1.6	-37.1	0.0	2.05
05-ARD-241-009	5034	Granite	8.37	0.02	0.07	0.01	0.07	2.2	1.1	-1.1	0.5	0.45
05-ARD-241-010	5034	Granite	8.11	0.02	0.06	0.01	0.06	1.9	2.9	1.0	1.5	0.45
05-ARD-241-011	5034	Granite	7.88	0.02	0.07	0.01	0.07	2.2	2.6	0.4	1.2	0.45
05-ARD-241-012	5034	Granite	8.36	0.23	0.20	0.01	0.20	6.3	10.0	3.8	1.6	5.23
05-ARD-241-013	5034	Granite	8.97	0.09	0.03	0.01	0.03	0.9	5.9	5.0	6.3	2.05
05-ARD-241-014	5034	Granite	8.71	0.03	0.10	0.01	0.10	3.1	4.9	1.8	1.6	0.68
05-ARD-241-015	5034	Granite	8.90	0.09	0.07	0.01	0.07	2.2	5.7	3.5	2.6	2.05
05-ARD-241-016	5034	Granite	8.55	0.01	0.18	0.01	0.18	5.6	5.2	-0.4	0.9	0.11
05-ARD-241-017	5034	Granite	8.27	0.03	0.37	0.01	0.37	11.6	5.9	-5.7	0.5	0.68
05-ARD-241-018	5034	Granite	9.13	0.01	0.05	0.01	0.05	1.6	7.5	5.9	4.8	0.23
05-ARD-241-019	5034	Granite	8.98	0.03	0.03	0.01	0.03	0.9	14.5	13.6	15.5	0.68
05-ARD-242-001	5034	Granite	8.82	0.07	0.06	0.01	0.06	1.9	2.4	0.5	1.3	1.59
05-ARD-242-002	5034	Granite	8.26	0.05	0.11	0.01	0.11	3.4	2.1	-1.3	0.6	1.14
05-ARD-242-003	5034	Granite	7.79	0.02	0.11	0.01	0.11	3.4	1.1	-2.3	0.3	0.45
05-ARD-242-004	5034	Granite	8.86	0.02	0.04	0.01	0.04	1.3	2.4	1.2	1.9	0.45
05-ARD-242-005	5034	Granite	8.33	0.04	0.03	0.01	0.03	0.9	3.4	2.5	3.6	0.91
05-ARD-242-006	5034	Granite	8.27	0.10	0.05	0.01	0.05	1.6	4.7	3.1	3.0	2.27
05-ARD-242-007	5034	Granite	7.96	0.03	0.14	0.01	0.14	4.4	3.1	-1.3	0.7	0.68
05-ARD-242-008	5034	Granite	8.67	0.03	0.03	0.01	0.03	0.9	5.7	4.7	6.1	0.68
05-ARD-242-010	5034	Granite	8.47	0.01	0.06	0.01	0.06	1.9	3.7	1.8	1.9	0.23
06-ARD-243-001	5034	Granite	8.68	0.01	0.04	0.01	0.04	1.3	1.6	0.4	1.3	0.11
06-ARD-243-002	5034	Granite	8.44	0.01	0.23	0.01	0.23	7.2	2.1	-5.1	0.3	0.23

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-ARD-243-003	5034	Granite	8.68	0.06	0.07	0.01	0.07	2.2	3.4	1.2	1.6	1.36
06-ARD-243-004	5034	Granite	8.73	0.05	0.03	0.01	0.03	0.9	1.9	0.9	2.0	1.14
06-ARD-243-005	5034	Granite	7.40	0.09	0.09	0.01	0.09	2.8	4.7	1.9	1.7	2.05
06-ARD-243-006	5034	Granite	7.63	0.04	0.19	0.01	0.19	5.9	2.9	-3.0	0.5	0.91
06-ARD-243-007	5034	Granite	8.23	0.04	0.04	0.01	0.04	1.3	3.7	2.4	2.9	0.91
06-ARD-243-008	5034	Granite	9.13	0.06	0.06	0.01	0.06	1.9	2.9	1.0	1.5	1.36
06-ARD-243-009	5034	Granite	9.34	0.05	0.08	0.01	0.08	2.5	6.4	3.9	2.6	1.14
06-ARD-243-010	5034	Granite	9.24	0.08	0.01	0.01	0.01	0.3	5.2	4.9	17.2	1.82
06-ARD-243-011	5034	Granite	9.53	0.07	0.21	0.01	0.21	6.6	16.6	10.0	2.5	1.59
06-ARD-243-012	5034	Granite	8.95	0.15	0.01	0.01	0.01	0.3	7.2	6.9	24.0	3.41
06-ARD-244-001	5034	Granite	8.51	0.07	0.01	0.01	0.01	0.3	2.9	2.6	9.6	1.59
06-ARD-244-002	5034	Granite	8.19	0.07	0.01	0.01	0.01	0.3	3.7	3.4	12.2	1.59
06-ARD-244-003	5034	Granite	8.89	0.10	0.05	0.01	0.05	1.6	3.4	1.8	2.2	2.27
06-ARD-244-004	5034	Granite	8.57	0.03	0.01	0.01	0.01	0.3	2.1	1.8	7.1	0.68
06-ARD-244-005	5034	Granite	8.77	0.04	0.01	0.01	0.01	0.3	6.2	5.9	20.6	0.91
06-ARD-244-006	5034	Granite	7.78	0.06	0.10	0.01	0.10	3.1	4.4	1.3	1.4	1.36
06-ARD-244-007	5034	Granite	8.48	0.01	0.05	0.01	0.05	1.6	3.9	2.3	2.5	0.11
06-ARD-244-008	5034	Granite	8.53	0.08	0.01	0.01	0.01	0.3	4.2	3.9	13.9	1.82
06-ARD-244-009	5034	Granite	8.28	0.05	0.03	0.01	0.03	0.9	3.9	3.0	4.2	1.14
06-ARD-244-010	5034	Granite	8.67	0.02	0.03	0.01	0.03	0.9	4.2	3.2	4.4	0.45
06-ARD-244-011	5034	Granite	9.07	0.03	0.05	0.01	0.05	1.6	5.9	4.4	3.8	0.68
06-ARD-244-012	5034	Granite	9.05	0.03	0.05	0.01	0.05	1.6	5.9	4.4	3.8	0.68
06-ARD-245-001	5034	Granite	8.58	0.07	0.12	0.01	0.12	3.8	4.4	0.7	1.2	1.59
06-ARD-245-002	5034	Granite	8.86	0.04	0.01	0.01	0.01	0.3	2.2	1.9	7.3	0.91
06-ARD-245-003	5034	Granite	8.82	0.05	0.01	0.01	0.01	0.3	3.7	3.4	12.2	1.14
06-ARD-245-004	5034	Granite	8.92	0.01	0.03	0.01	0.03	0.9	3.7	2.7	3.9	0.11
06-ARD-245-005	5034	Granite	8.85	0.07	0.03	0.01	0.03	0.9	4.4	3.5	4.7	1.59
06-ARD-245-006	5034	Granite	8.98	0.04	0.01	0.01	0.01	0.3	3.7	3.4	12.2	0.91
06-ARD-245-007	5034	Granite	8.68	0.08	0.03	0.01	0.03	0.9	6.1	5.2	6.5	1.82
06-ARD-245-008	5034	Granite	8.63	0.03	0.01	0.01	0.01	0.3	3.2	2.9	10.6	0.68
06-ARD-245-009	5034	Granite	8.80	0.01	0.03	0.01	0.03	0.9	3.9	3.0	4.2	0.11
06-ARD-245-010	5034	Granite	8.60	0.02	0.02	0.01	0.02	0.6	4.4	3.8	7.1	0.45
06-ARD-245-011	5034	Granite	8.65	0.01	0.01	0.01	0.01	0.3	6.4	6.1	21.2	0.11
06-ARD-245-012	5034	Granite	8.73	0.01	0.02	0.01	0.02	0.6	4.4	3.8	7.1	0.11
06-ARD-245-013	5034	Granite	8.55	0.01	0.02	0.01	0.02	0.6	5.6	5.0	9.0	0.11
06-ARD-245-014	5034	Granite	8.44	0.07	0.01	0.01	0.01	0.3	7.4	7.1	24.5	1.59
06-ARD-245-016	5034	Granite	8.42	0.02	0.05	0.01	0.05	1.6	5.9	4.3	3.8	0.45

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-ARD-245-017	5034	Granite	8.11	0.20	0.06	0.01	0.06	1.9	5.9	4.0	3.1	4.55
06-ARD-254-001	5034	Granite	9.19	0.05	0.01	0.01	0.01	0.3	4.5	4.2	15.2	1.14
06-ARD-254-002	5034	Granite	9.34	0.07	0.01	0.01	0.01	0.3	4.1	3.8	13.8	1.59
06-ARD-254-003	5034	Granite	9.09	0.02	0.01	0.01	0.01	0.3	8.4	8.1	28.0	0.45
06-ARD-254-004	5034	Granite	9.10	0.28	0.02	0.01	0.02	0.6	7.7	7.0	12.3	6.36
06-ARD-254-005	5034	Granite	9.27	0.05	0.01	0.01	0.01	0.3	4.0	3.7	13.5	1.14
06-ARD-254-006	5034	Granite	9.13	0.05	0.02	0.01	0.02	0.6	2.6	1.9	4.1	1.14
06-ARD-254-007	5034	Granite	9.29	0.58	0.01	0.01	0.01	0.3	15.3	15.0	50.9	13.18
06-ARD-255-001	5034	Granite	9.17	0.07	0.01	0.01	0.01	0.3	3.3	3.0	11.0	1.59
06-ARD-255-002	5034	Granite	9.33	0.10	0.02	0.01	0.02	0.6	6.3	5.7	10.1	2.27
06-ARD-255-003	5034	Granite	9.40	0.10	0.03	0.01	0.03	0.9	6.7	5.7	7.1	2.27
06-ARD-255-004	5034	Granite	8.98	0.12	0.03	0.01	0.03	0.9	3.4	2.5	3.7	2.73
06-ARD-255-005	5034	Granite	9.35	0.09	0.03	0.01	0.03	0.9	6.3	5.4	6.7	2.05
06-ARD-255-006	5034	Granite	9.35	0.12	0.02	0.01	0.02	0.6	5.3	4.7	8.5	2.73
06-ARD-255-008	5034	Granite	9.53	0.16	0.02	0.01	0.02	0.6	12.4	11.8	19.8	3.64
06-ARD-255-009	5034	Granite	9.39	0.18	0.02	0.01	0.02	0.6	9.9	9.3	15.8	4.09
06-ARD-255-010	5034	Granite	9.36	0.05	0.01	0.01	0.01	0.3	3.9	3.6	13.1	1.14
06-ARD-255-011	5034	Granite	9.47	0.15	0.01	0.01	0.01	0.3	7.3	7.0	24.3	3.41
06-ARD-255-012	5034	Granite	9.37	0.16	0.01	0.01	0.01	0.3	8.8	8.5	29.2	3.64
06-ARD-255-013	5034	Granite	9.35	0.19	0.02	0.01	0.02	0.6	9.3	8.7	14.8	4.32
06-ARD-255-014	5034	Granite	9.42	0.17	0.01	0.01	0.01	0.3	8.5	8.2	28.4	3.86
06-ARD-255-015	5034	Granite	9.33	0.02	0.05	0.01	0.05	1.6	4.9	3.4	3.1	0.45
06-ARD-255-016	5034	Granite	9.30	0.07	0.01	0.01	0.01	0.3	4.9	4.6	16.4	1.59
06-ARD-256-001	5034	Granite	9.44	0.15	0.01	0.01	0.01	0.3	3.4	3.1	11.3	3.41
06-ARD-256-002	5034	Granite	9.62	0.07	0.02	0.01	0.02	0.6	4.6	4.0	7.4	1.59
06-ARD-256-003	5034	Granite	9.89	0.09	0.04	0.01	0.04	1.3	4.0	2.8	3.2	2.05
06-ARD-256-004	5034	Granite	9.86	0.02	0.03	0.01	0.02	0.7	6.8	6.0	9.5	0.45
06-ARD-256-005	5034	Granite	9.59	0.08	0.01	0.01	0.01	0.3	4.4	4.1	14.6	1.82
06-ARD-256-006	5034	Granite	9.80	0.04	0.02	0.01	0.02	0.6	6.1	5.5	9.8	0.91
06-ARD-256-007	5034	Granite	9.66	0.17	0.02	0.02	0.01	0.2	8.4	8.2	53.6	3.86
06-ARD-256-008	5034	Granite	8.96	0.02	0.05	0.01	0.04	1.4	6.4	5.0	4.6	0.45
06-ARD-256-009	5034	Granite	9.48	0.03	0.01	0.01	0.01	0.3	4.0	3.7	13.3	0.68
06-ARD-256-010	5034	Granite	9.66	0.02	0.02	0.01	0.02	0.6	5.3	4.6	8.4	0.45
06-ARD-256-011	5034	Granite	8.98	0.04	0.09	0.01	0.08	2.5	4.6	2.1	1.9	0.91
06-ARD-256-012	5034	Granite	9.76	0.05	0.02	0.01	0.01	0.4	7.5	7.1	21.2	1.14
06-ARD-256-013	5034	Granite	9.71	0.12	0.01	0.01	0.01	0.3	10.0	9.7	33.3	2.73
06-ARD-256-014	5034	Granite	9.23	0.14	0.08	0.01	0.08	2.5	6.6	4.1	2.7	3.18

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-ARD-256-015	5034	Granite	9.01	0.04	0.09	0.01	0.09	2.8	5.0	2.2	1.8	0.91
06-ARD-256-016	5034	Granite	9.56	0.04	0.06	0.01	0.06	1.9	5.8	3.9	3.1	0.91
06-ARD-256-017	5034	Granite	9.66	0.13	0.01	0.01	0.01	0.3	7.0	6.7	23.3	2.95
06-ARD-258-001	5034	Granite	7.91	0.01	0.10	0.01	0.10	3.1	3.5	0.4	1.1	0.11
06-ARD-258-002	5034	Granite	7.95	0.01	0.05	0.01	0.05	1.6	2.0	0.4	1.3	0.11
06-ARD-258-003	5034	Granite	8.61	0.01	0.04	0.01	0.03	0.9	7.8	6.8	8.5	0.11
06-ARD-258-004	5034	Granite	8.17	0.02	0.01	0.01	0.01	0.3	2.5	2.2	8.3	0.45
06-ARD-258-005	5034	Granite	7.94	0.01	0.10	0.01	0.10	3.1	3.4	0.3	1.1	0.23
06-ARD-258-006	5034	Granite	8.05	0.01	0.10	0.01	0.09	2.9	3.8	0.8	1.3	0.23
06-ARD-258-007	5034	Granite	8.18	0.02	0.01	0.01	0.01	0.3	5.0	4.7	16.7	0.45
06-ARD-258-008	5034	Granite	8.20	0.05	0.03	0.01	0.02	0.7	5.8	5.1	8.4	1.14
06-ARD-258-009	5034	Granite	8.46	0.09	0.07	0.01	0.06	1.9	4.4	2.5	2.3	2.05
06-ARD-258-010	5034	Granite	8.26	0.03	0.07	0.01	0.06	1.9	6.4	4.4	3.3	0.68
06-ARD-258-011	5034	Granite	8.70	0.21	0.07	0.01	0.07	2.2	4.5	2.3	2.1	4.77
06-ARD-258-012	5034	Granite	9.34	0.04	0.01	0.01	0.01	0.3	5.0	4.7	16.7	0.91
06-ARD-258-013	5034	Granite	9.10	0.97	0.02	0.01	0.02	0.6	24.5	23.9	39.2	22.05
06-ARD-258-014	5034	Granite	9.48	0.04	0.01	0.01	0.01	0.3	2.8	2.5	9.2	0.91
06-ARD-260-001	5034	Granite	9.73	0.01	0.01	0.01	0.01	0.3	2.9	2.6	9.6	0.11
06-ARD-260-002	5034	Granite	9.68	0.01	0.01	0.01	0.01	0.3	2.5	2.2	8.3	0.23
06-ARD-260-003	5034	Granite	9.65	0.05	0.01	0.01	0.01	0.3	2.0	1.7	6.7	1.14
06-ARD-260-004	5034	Granite	9.56	0.05	0.01	0.01	0.01	0.3	3.6	3.3	12.1	1.14
06-ARD-260-005	5034	Granite	9.53	0.07	0.01	0.01	0.01	0.3	2.6	2.3	8.8	1.59
06-ARD-260-006	5034	Granite	9.57	0.05	0.01	0.01	0.01	0.3	2.0	1.7	6.7	1.14
06-ARD-260-007	5034	Granite	9.80	0.06	0.02	0.01	0.01	0.3	3.9	3.6	12.4	1.36
06-ARD-260-008	5034	Granite	9.65	0.03	0.01	0.01	0.01	0.3	1.8	1.5	5.8	0.68
06-ARD-260-009	5034	Granite	9.51	0.01	0.01	0.01	0.01	0.3	2.0	1.7	6.7	0.11
06-ARD-260-010	5034	Granite	9.60	0.07	0.01	0.01	0.01	0.3	2.0	1.7	6.7	1.59
06-ARD-260-011	5034	Granite	9.53	0.08	0.01	0.01	0.01	0.3	5.1	4.8	17.1	1.82
06-ARD-260-012	5034	Granite	9.54	0.03	0.01	0.01	0.01	0.3	1.6	1.3	5.4	0.68
06-ARD-260-013	5034	Granite	9.73	0.07	0.01	0.01	0.01	0.3	3.0	2.7	10.0	1.59
06-ARD-260-014	5034	Granite	9.45	0.01	0.01	0.01	0.01	0.3	1.5	1.2	5.0	0.23
06-ARD-260-015	5034	Granite	9.08	0.03	0.01	0.01	0.01	0.3	2.6	2.3	8.8	0.68
06-ARD-260-016	5034	Granite	9.52	0.01	0.01	0.01	0.01	0.3	1.4	1.1	4.6	0.23
06-ARD-260-017	5034	Granite	9.56	0.28	0.01	0.01	0.01	0.3	6.1	5.8	20.4	6.36
06-ARD-260-018	5034	Granite	9.63	0.08	0.03	0.01	0.03	0.9	4.8	3.8	5.1	1.82
06-ARD-260-019	5034	Granite	9.74	0.03	0.01	0.01	0.01	0.3	2.8	2.5	9.2	0.68
06-ARD-260-020	5034	Granite	9.56	0.08	0.02	0.01	0.02	0.6	3.5	2.9	5.6	1.82

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-ARD-260-021	5034	Granite	9.69	0.12	0.08	0.01	0.07	2.1	7.3	5.1	3.4	2.73
06-ARD-260-022	5034	Granite	9.56	0.01	0.01	0.01	0.01	0.3	2.1	1.8	7.1	0.23
06-ARD-260-023	5034	Granite	9.45	0.13	0.02	0.01	0.02	0.6	6.3	5.6	10.0	2.95
06-ARD-260-024	5034	Granite	9.71	0.06	0.01	0.01	0.01	0.3	1.9	1.6	6.3	1.36
06-ARD-260-025	5034	Granite	9.77	0.12	0.06	0.01	0.06	1.9	7.0	5.1	3.7	2.73
06-ARD-260-026	5034	Granite	9.86	0.08	0.03	0.01	0.03	0.9	8.5	7.6	9.1	1.82
06-ARD-260-027	5034	Granite	9.92	0.13	0.04	0.01	0.03	0.9	9.0	8.1	9.6	2.95
06-ARD-260-028	5034	Granite	9.67	0.15	0.50	0.01	0.49	15.4	7.8	-7.6	0.5	3.41
06-ARD-260-029	5034	Granite	9.43	0.76	0.03	0.01	0.03	0.9	26.9	25.9	28.7	17.27
06-ARD-260-030	5034	Granite	10.02	0.12	0.01	0.01	0.01	0.3	16.3	16.0	54.2	2.73
06-ARD-260-031	5034	Granite	9.68	0.35	0.17	0.02	0.15	4.6	18.9	14.3	4.1	7.95
06-ARD-260-032	5034	Granite	9.48	0.10	0.05	0.01	0.05	1.6	6.1	4.6	3.9	2.27
06-ARD-260-033	5034	Granite	9.74	0.11	0.03	0.01	0.03	0.9	9.0	8.1	9.6	2.50
06-ARD-261-001	5034	Granite	9.11	0.02	0.01	0.01	0.01	0.3	5.3	5.0	17.5	0.45
06-ARD-261-002	5034	Granite	9.20	0.01	0.01	0.01	0.01	0.3	5.0	4.7	16.7	0.11
06-ARD-261-003	5034	Granite	8.88	0.01	0.01	0.01	0.01	0.3	5.1	4.8	17.1	0.23
06-ARD-261-004	5034	Granite	9.04	0.01	0.01	0.01	0.01	0.3	4.6	4.3	15.4	0.23
06-ARD-261-005	5034	Granite	9.51	0.04	0.01	0.01	0.01	0.3	5.3	5.0	17.5	0.91
06-ARD-261-006	5034	Granite	9.49	0.17	0.01	0.01	0.01	0.3	4.6	4.3	15.4	3.86
06-ARD-261-007	5034	Granite	9.60	0.05	0.01	0.01	0.01	0.3	4.1	3.8	13.8	1.14
06-ARD-261-008	5034	Granite	9.28	0.01	0.01	0.01	0.01	0.3	6.3	6.0	20.8	0.23
06-ARD-261-009	5034	Granite	9.57	0.09	0.01	0.01	0.01	0.3	5.8	5.5	19.2	2.05
06-ARD-261-010	5034	Granite	9.25	0.01	0.01	0.01	0.01	0.3	5.0	4.7	16.7	0.23
06-ARD-261-011	5034	Granite	9.13	0.02	0.02	0.01	0.02	0.6	4.3	3.6	6.8	0.45
06-ARD-261-012	5034	Granite	9.46	0.02	0.02	0.01	0.02	0.6	5.3	4.6	8.4	0.45
06-ARD-261-013	5034	Granite	9.48	0.06	0.03	0.01	0.02	0.6	5.4	4.8	8.6	1.36
06-ARD-261-014	5034	Granite	8.81	0.16	0.34	0.01	0.33	10.3	10.0	-0.3	1.0	3.64
06-ARD-261-015	5034	Granite	9.60	0.11	0.01	0.01	0.01	0.3	10.0	9.7	33.3	2.50
06-ARD-261-016	5034	Granite	9.57	0.10	0.02	0.01	0.01	0.3	7.8	7.4	23.3	2.27
06-ARD-261-017	5034	Granite	9.84	0.05	0.06	0.01	0.05	1.5	5.5	4.0	3.7	1.14
06-ARD-261-018	5034	Granite	9.68	0.12	0.02	0.01	0.01	0.3	6.0	5.7	20.6	2.73
06-ARD-261-019	5034	Granite	9.69	0.11	0.02	0.01	0.01	0.3	12.6	12.3	40.4	2.50
06-ARD-261-020	5034	Granite	9.64	0.08	0.01	0.01	0.01	0.3	4.0	3.7	13.3	1.82
06-ARD-261-021	5034	Granite	9.52	0.11	0.02	0.01	0.02	0.6	6.4	5.8	10.2	2.50
06-ARD-261-022	5034	Granite	9.63	0.13	0.01	0.01	0.01	0.3	6.0	5.7	20.0	2.95
06-ARD-261-023	5034	Granite	9.03	0.01	0.04	0.01	0.04	1.3	3.8	2.5	3.0	0.23
06-ARD-261-024	5034	Granite	8.96	0.01	0.11	0.01	0.11	3.4	4.5	1.1	1.3	0.11

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-ARD-261-025	5034	Granite	9.59	0.04	0.03	0.01	0.03	0.9	2.8	1.8	2.9	0.91
06-ARD-261-026	5034	Granite	9.51	0.10	0.03	0.01	0.03	0.9	4.8	3.8	5.1	2.27
06-ARD-261-027	5034	Granite	9.65	0.34	0.01	0.01	0.01	0.3	10.3	10.0	34.2	7.73
06-ARD-261-028	5034	Granite	9.75	0.11	0.05	0.01	0.05	1.6	5.6	4.1	3.6	2.50
06-ARD-261-029	5034	Granite	9.78	0.04	0.01	0.01	0.01	0.3	7.3	7.0	24.2	0.91
06-ARD-261-030	5034	Granite	9.44	0.03	0.02	0.01	0.02	0.6	6.0	5.4	9.6	0.68
06-ARD-269-001	5034	Granite	9.24	0.01	0.25	0.01	0.24	7.5	5.8	-1.8	0.8	0.11
06-ARD-269-002	5034	Granite	9.37	0.12	0.02	0.01	0.02	0.6	5.3	4.6	8.4	2.73
06-ARD-269-003	5034	Granite	9.60	0.09	0.01	0.01	0.01	0.3	3.3	3.0	10.8	2.05
06-ARD-269-004	5034	Granite	9.52	0.03	0.02	0.01	0.02	0.6	4.6	4.0	7.4	0.68
06-ARD-269-005	5034	Granite	9.48	0.05	0.01	0.01	0.01	0.3	3.3	3.0	10.8	1.14
06-ARD-269-006	5034	Granite	9.41	0.16	0.01	0.01	0.01	0.3	7.3	7.0	24.2	3.64
06-ARD-269-007	5034	Granite	9.54	0.11	0.01	0.01	0.01	0.3	6.8	6.5	22.5	2.50
06-ARD-269-009	5034	Granite	9.75	0.07	0.01	0.01	0.01	0.3	5.3	5.0	17.5	1.59
06-ARD-269-010	5034	Granite	9.36	0.06	0.01	0.01	0.01	0.3	2.0	1.7	6.7	1.36
06-ARD-269-011	5034	Granite	9.64	0.06	0.03	0.01	0.02	0.6	5.4	4.8	8.6	1.36
06-ARD-269-012	5034	Granite	9.44	0.01	0.01	0.01	0.01	0.3	1.0	0.7	3.3	0.11
06-ARD-269-013	5034	Granite	9.61	0.13	0.01	0.01	0.01	0.3	7.4	7.1	24.6	2.95
06-ARD-269-014	5034	Granite	9.09	0.01	0.01	0.01	0.01	0.3	2.3	2.0	7.5	0.23
06-ARD-269-015	5034	Granite	9.34	0.01	0.01	0.01	0.01	0.3	2.0	1.7	6.7	0.11
06-ARD-269-016	5034	Granite	9.54	0.01	0.01	0.01	0.01	0.3	1.1	0.8	3.8	0.23
06-ARD-269-018	5034	Granite	9.59	0.12	0.03	0.01	0.02	0.6	6.8	6.1	10.8	2.73
06-ARD-269-019	5034	Granite	9.60	0.15	0.02	0.01	0.01	0.3	10.0	9.7	32.0	3.41
06-ARD-269-020	5034	Granite	9.37	0.18	0.04	0.01	0.04	1.3	9.5	8.3	7.6	4.09
06-ARD-269-021	5034	Granite	9.45	0.40	0.04	0.01	0.04	1.3	11.0	9.8	8.8	9.09
06-ARD-269-022	5034	Granite	9.55	0.04	0.01	0.01	0.01	0.3	4.6	4.3	15.4	0.91
06-ARD-269-023	5034	Granite	9.63	0.02	0.01	0.01	0.01	0.3	3.3	3.0	10.8	0.45
06-ARD-269-024	5034	Granite	9.32	0.01	0.03	0.01	0.03	0.9	3.8	2.8	4.0	0.23
06-ARD-269-025	5034	Granite	9.47	0.13	0.01	0.01	0.01	0.3	7.5	7.2	25.0	2.95
06-ARD-269-026	5034	Granite	9.61	0.03	0.02	0.01	0.02	0.6	5.1	4.5	8.2	0.68
06-ARD-269-027	5034	Granite	9.56	0.13	0.01	0.01	0.01	0.3	6.5	6.2	21.7	2.95
06-ARD-269-028	5034	Granite	9.42	0.13	0.05	0.01	0.05	1.6	5.3	3.7	3.4	2.95
06-ARD-269-029	5034	Granite	9.54	0.13	0.05	0.01	0.04	1.3	7.3	6.0	5.8	2.95
06-ARD-269-030	5034	Granite	9.58	0.19	0.03	0.01	0.02	0.6	8.8	8.1	14.0	4.32
06-ARD-269-031	5034	Granite	8.90	0.11	0.01	0.01	0.01	0.3	7.5	7.2	25.0	2.50
06-ARD-273-001	5034	Granite	8.77	0.01	0.01	0.01	0.01	0.3	3.0	2.7	10.0	0.11
06-ARD-273-002	5034	Granite	9.20	0.01	0.02	0.01	0.02	0.6	3.8	3.1	6.0	0.11

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-ARD-273-003	5034	Granite	9.28	0.01	0.01	0.01	0.01	0.3	1.4	1.1	4.6	0.11
06-ARD-273-004	5034	Granite	9.18	0.01	0.01	0.01	0.01	0.3	2.3	2.0	7.5	0.11
06-ARD-273-005	5034	Granite	9.14	0.01	0.01	0.01	0.01	0.3	2.0	1.7	6.7	0.11
06-ARD-273-006	5034	Granite	9.02	0.01	0.01	0.01	0.01	0.3	0.9	0.6	2.9	0.11
06-ARD-273-007	5034	Granite	8.73	0.01	0.01	0.01	0.01	0.3	1.8	1.5	5.8	0.11
06-ARD-273-008	5034	Granite	9.32	0.01	0.01	0.01	0.01	0.3	2.0	1.7	6.7	0.11
06-ARD-273-009	5034	Granite	9.32	0.04	0.01	0.01	0.01	0.3	2.1	1.8	7.1	0.91
06-ARD-273-010	5034	Granite	9.16	0.01	0.02	0.01	0.02	0.6	2.5	1.9	4.0	0.23
06-ARD-273-011	5034	Granite	9.13	0.08	0.01	0.01	0.01	0.3	5.5	5.2	18.3	1.82
06-ARD-273-012	5034	Granite	9.38	0.12	0.02	0.01	0.02	0.6	6.9	6.3	11.0	2.73
06-ARD-273-013	5034	Granite	9.24	0.10	0.01	0.01	0.01	0.3	4.8	4.5	15.8	2.27
06-ARD-273-014	5034	Granite	9.42	0.01	0.01	0.01	0.01	0.3	2.0	1.7	6.7	0.11
06-ARD-273-015	5034	Granite	9.09	0.04	0.02	0.01	0.02	0.6	3.1	2.5	5.0	0.91
06-ARD-273-016	5034	Granite	9.09	0.06	0.04	0.01	0.04	1.3	4.0	2.8	3.2	1.36
06-ARD-273-017	5034	Granite	8.57	0.18	0.04	0.01	0.04	1.3	3.6	2.4	2.9	4.09
06-ARD-273-018	5034	Granite	7.31	0.02	0.20	0.01	0.19	5.9	2.1	-3.8	0.4	0.45
06-ARD-273-019	5034	Granite	7.59	0.24	2.18	0.02	2.16	67.5	18.5	-49.0	0.3	5.45
06-ARD-273-020	5034	Granite	9.39	0.06	0.02	0.01	0.02	0.6	5.8	5.1	9.2	1.36
06-ARD-273-021	5034	Granite	8.80	0.04	0.02	0.01	0.02	0.6	2.9	2.3	4.6	0.91
06-ARD-273-022	5034	Granite	8.65	0.08	0.10	0.01	0.10	3.1	2.4	-0.8	0.8	1.82
06-ARD-273-023	5034	Granite	7.04	0.04	0.29	0.02	0.27	8.4	2.8	-5.7	0.3	0.91
06-ARD-273-024	5034	Granite	9.49	0.06	0.04	0.01	0.04	1.3	4.3	3.0	3.4	1.36
06-ARD-273-025	5034	Granite	9.42	0.01	0.02	0.01	0.02	0.6	3.1	2.5	5.0	0.11
06-ARD-275-001	5034	Granite	9.26	0.05	0.02	0.01	0.02	0.6	5.6	5.0	9.0	1.14
06-ARD-275-002	5034	Granite	9.03	0.05	0.02	0.01	0.02	0.6	2.1	1.5	3.4	1.14
06-ARD-275-003	5034	Granite	9.20	0.01	0.04	0.01	0.04	1.3	9.7	8.5	7.8	0.11
06-ARD-275-004	5034	Granite	9.11	0.01	0.03	0.01	0.03	0.9	4.5	3.5	4.8	0.11
06-ARD-275-005	5034	Granite	9.04	0.05	0.01	0.01	0.01	0.3	13.1	12.8	43.5	1.14
06-ARD-275-006	5034	Granite	9.35	0.29	0.01	0.01	0.01	0.3	7.0	6.7	23.2	6.59
06-ARD-275-007	5034	Granite	9.12	0.14	0.02	0.01	0.02	0.6	6.1	5.5	9.8	3.18
06-ARD-275-008	5034	Granite	9.30	0.10	0.01	0.01	0.01	0.3	6.2	5.9	20.7	2.27
06-ARD-275-009	5034	Granite	9.21	0.12	0.01	0.01	0.01	0.3	5.5	5.2	18.2	2.73
06-ARD-275-010	5034	Granite	9.37	0.12	0.02	0.01	0.02	0.6	8.0	7.3	12.7	2.73
06-ARD-275-011	5034	Granite	8.99	0.01	0.02	0.01	0.02	0.6	3.5	2.9	5.6	0.11
06-ARD-275-012	5034	Granite	9.31	0.01	0.02	0.01	0.02	0.6	3.4	2.7	5.4	0.11
06-ARD-275-013	5034	Granite	9.16	0.08	0.01	0.01	0.01	0.3	3.5	3.2	11.6	1.82
06-ARD-275-014	5034	Granite	9.23	0.07	0.02	0.01	0.02	0.6	4.9	4.2	7.8	1.59

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-ARD-275-015	5034	Granite	9.40	0.05	0.01	0.01	0.01	0.3	4.1	3.8	13.7	1.14
06-ARD-275-016	5034	Granite	9.48	0.06	0.02	0.01	0.02	0.6	4.7	4.1	7.6	1.36
06-ARD-275-017	5034	Granite	9.35	0.11	0.03	0.01	0.03	0.9	6.8	5.9	7.3	2.50
06-ARD-275-019	5034	Granite	9.28	0.14	0.01	0.01	0.01	0.3	7.3	7.0	24.5	3.18
06-ARD-275-020	5034	Granite	9.40	0.02	0.02	0.01	0.02	0.6	3.0	2.4	4.8	0.45
06-GTC-254-001	5034	Granite	9.13	0.13	0.01	0.01	0.01	0.3	4.5	4.2	15.0	2.95
06-GTC-254-003	5034	Granite	9.09	0.04	0.01	0.01	0.01	0.3	3.5	3.2	11.7	0.91
06-GTC-254-004	5034	Granite	9.05	0.08	0.01	0.01	0.01	0.3	2.9	2.6	9.6	1.82
06-GTC-254-006	5034	Granite	9.05	0.04	0.01	0.01	0.01	0.3	2.8	2.5	9.2	0.91
06-GTC-254-013	5034	Granite	9.08	0.07	0.01	0.01	0.01	0.3	3.6	3.3	12.1	1.59
06-GTC-255-001	5034	Granite	9.21	0.04	0.01	0.01	0.01	0.3	2.9	2.6	9.6	0.91
06-GTC-255-002	5034	Granite	9.30	0.07	0.01	0.01	0.01	0.3	3.9	3.6	12.9	1.59
06-GTC-255-003	5034	Granite	9.23	0.12	0.02	0.01	0.02	0.6	3.6	3.0	5.8	2.73
06-GTC-255-010	5034	Granite	9.19	0.17	0.01	0.02	0.01	0.3	9.5	9.2	31.7	3.86
06-GTC-255-011	5034	Granite	9.19	0.18	0.01	0.01	0.01	0.3	9.6	9.3	32.1	4.09
06-GTC-255-012	5034	Granite	9.07	0.10	0.01	0.01	0.01	0.3	3.0	2.7	10.0	2.27
06-GTC-256-001	5034	Granite	9.08	0.09	0.01	0.01	0.01	0.3	3.5	3.2	11.7	2.05
06-GTC-256-002	5034	Granite	9.17	0.01	0.01	0.01	0.01	0.3	7.9	7.6	26.3	0.23
06-GTC-256-003	5034	Granite	9.13	0.15	0.05	0.01	0.05	1.6	8.4	6.8	5.4	3.41
06-GTC-256-004	5034	Granite	9.03	0.66	0.03	0.01	0.03	0.9	14.8	13.8	15.7	15.00
06-GTC-256-005	5034	Granite	9.13	0.16	0.01	0.01	0.01	0.3	5.5	5.2	18.3	3.64
06-GTC-256-012	5034	Granite	9.33	0.12	0.01	0.01	0.01	0.3	8.8	8.5	29.2	2.73
06-GTC-258-001	5034	Granite	8.25	0.01	0.02	0.01	0.02	0.6	3.3	2.6	5.2	0.11
06-GTC-258-037	5034	Granite	9.12	0.03	0.01	0.01	0.01	0.3	3.3	3.0	10.8	0.68
06-GTC-260-001	5034	Granite	9.23	0.01	0.01	0.01	0.01	0.3	2.4	2.1	7.9	0.11
06-GTC-260-002	5034	Granite	9.27	0.07	0.01	0.01	0.01	0.3	3.3	3.0	10.8	1.59
06-GTC-260-003	5034	Granite	9.25	0.06	0.01	0.01	0.01	0.3	1.0	0.7	3.3	1.36
06-GTC-260-004	5034	Granite	9.16	0.01	0.01	0.01	0.01	0.3	0.9	0.6	2.9	0.11
06-GTC-260-005	5034	Granite	9.27	0.11	0.04	0.01	0.04	1.3	3.6	2.4	2.9	2.50
06-GTC-260-006	5034	Granite	9.26	0.10	0.01	0.01	0.01	0.3	4.0	3.7	13.3	2.27
06-GTC-260-013	5034	Granite	9.52	0.08	0.05	0.01	0.04	1.3	6.5	5.3	5.2	1.82
06-GTC-260-014	5034	Granite	9.39	0.15	0.02	0.01	0.01	0.3	8.3	7.9	26.4	3.41
06-GTC-261-001	5034	Granite	9.28	0.02	0.01	0.01	0.01	0.3	3.3	3.0	10.8	0.45
06-GTC-261-002	5034	Granite	9.25	0.05	0.01	0.01	0.01	0.3	4.0	3.7	13.3	1.14
06-GTC-261-003	5034	Granite	9.23	0.07	0.02	0.02	0.01	0.2	3.8	3.6	24.0	1.59
06-GTC-261-004	5034	Granite	9.31	0.15	0.01	0.01	0.01	0.3	3.8	3.5	12.5	3.41
06-GTC-261-005	5034	Granite	9.01	0.12	0.01	0.01	0.01	0.3	3.4	3.1	11.3	2.73

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-GTC-261-006	5034	Granite	9.30	0.04	0.01	0.01	0.01	0.3	2.8	2.5	9.2	0.91
06-GTC-261-007	5034	Granite	9.08	0.02	0.01	0.01	0.01	0.3	3.3	3.0	10.8	0.45
06-GTC-261-019	5034	Granite	8.79	0.60	0.02	0.01	0.02	0.6	20.0	19.4	32.0	13.64
06-GTC-261-020	5034	Granite	9.04	0.21	0.01	0.01	0.01	0.3	10.5	10.2	35.0	4.77
MPV-04-234C	5034	Granite	8.80	0.01	0.02	0.01	0.02	0.6	3.5	2.9	5.6	0.23
MPV-04-234C	5034	Granite	8.90	0.06	0.02	0.01	0.02	0.6	4.0	3.4	6.4	1.36
MPV-04-234C	5034	Granite	9.00	0.14	0.01	0.01	0.01	0.3	4.2	3.9	14.0	3.18
MPV-04-234C	5034	Granite	9.00	0.14	0.03	0.01	0.03	0.9	6.2	5.3	6.6	3.18
MPV-04-234C	5034	Granite	8.90	0.04	0.01	0.01	0.01	0.3	3.7	3.4	12.3	0.91
MPV-04-234C	5034	Granite	8.70	0.04	0.02	0.01	0.02	0.6	2.5	1.9	4.0	0.91
MPV-04-234C	5034	Granite	8.80	0.21	0.03	0.01	0.03	0.9	7.0	6.1	7.5	4.77
MPV-04-234C	5034	Granite	9.00	0.08	0.02	0.01	0.02	0.6	4.0	3.4	6.4	1.82
MPV-04-234C	5034	Granite	8.80	0.08	0.05	0.01	0.05	1.6	5.5	3.9	3.5	1.82
MPV-04-234C	5034	Granite	8.90	0.01	0.09	0.01	0.09	2.8	3.2	0.4	1.1	0.23
MPV-04-234C	5034	Granite	9.10	0.04	0.05	0.01	0.05	1.6	4.5	2.9	2.9	0.91
MPV-04-234C	5034	Granite	9.00	0.03	0.02	0.01	0.02	0.6	4.7	4.1	7.5	0.68
MPV-04-234C	5034	Granite	9.00	0.04	0.03	0.01	0.03	0.9	5.0	4.1	5.3	0.91
MPV-04-234C	5034	Granite	9.00	0.10	0.03	0.01	0.03	0.9	4.5	3.6	4.8	2.27
MPV-04-234C	5034	Granite	9.10	0.09	0.04	0.01	0.04	1.3	5.2	4.0	4.2	2.05
MPV-04-234C	5034	Granite	9.10	0.08	0.02	0.01	0.02	0.6	4.5	3.9	7.2	1.82
MPV-04-234C	5034	Granite	9.00	0.16	0.04	0.01	0.04	1.3	6.0	4.8	4.8	3.64
MPV-04-234C	5034	Granite	8.90	0.17	0.03	0.01	0.03	0.9	5.0	4.1	5.3	3.86
MPV-04-234C	5034	Granite	9.00	0.16	0.05	0.01	0.05	1.6	8.5	6.9	5.4	3.64
MPV-04-234C	5034	Granite	8.80	0.19	0.04	0.01	0.04	1.3	8.7	7.5	7.0	4.32
MPV-04-234C	5034	Granite	9.40	0.26	0.07	0.01	0.07	2.2	9.0	6.8	4.1	5.91
MPV-04-234C	5034	Granite	9.50	0.10	0.01	0.01	0.01	0.3	8.4	8.1	26.9	2.27
MPV-04-234C	5034	Granite	9.40	0.09	0.02	0.01	0.02	0.6	6.0	5.4	9.6	2.05
MPV-04-234C	5034	Granite	9.60	0.08	0.03	0.01	0.03	0.9	5.7	4.8	6.1	1.82
MPV-04-234C	5034	Granite	9.50	0.02	0.05	0.01	0.05	1.6	10.0	8.4	6.4	0.45
MPV-04-234C	5034	Granite	9.40	0.10	0.01	0.01	0.01	0.3	8.7	8.4	27.8	2.27
MPV-04-234C	5034	Granite	9.30	0.05	0.01	0.01	0.01	0.3	6.2	5.9	19.8	1.14
MPV-04-234C	5034	Granite	9.20	0.17	0.01	0.01	0.01	0.3	8.2	7.9	26.2	3.86
MPV-04-234C	5034	Granite	9.60	0.11	0.02	0.01	0.02	0.6	5.2	4.6	8.3	2.50
MPV-04-234C	5034	Granite	9.60	0.06	0.01	0.01	0.01	0.3	4.7	4.4	15.7	1.36
MPV-04-234C	5034	Granite	9.20	0.05	0.01	0.01	0.01	0.3	4.7	4.4	15.0	1.14
06-GTC-264-001	Hearne	Granite	9.25	0.01	0.01	0.01	0.01	0.3	3.3	3.0	10.8	0.23
06-GTC-264-002	Hearne	Granite	8.98	0.01	0.01	0.01	0.01	0.3	3.9	3.6	12.9	0.11

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-GTC-264-003	Hearne	Granite	9.36	0.01	0.01	0.01	0.01	0.3	4.3	4.0	14.2	0.23
06-GTC-264-004	Hearne	Granite	9.10	0.01	0.01	0.01	0.01	0.3	4.4	4.1	14.6	0.23
06-GTC-264-005	Hearne	Granite	9.49	0.06	0.07	0.01	0.07	2.2	6.6	4.4	3.0	1.36
04-ARD-120-001	Hearne	Granite	9.10	0.05	0.02	0.01	0.02	0.6	2.2	1.6	3.5	1.14
04-ARD-120-002	Hearne	Granite	9.38	0.01	0.01	0.01	0.01	0.3	2.5	2.2	8.3	0.11
04-ARD-120-003	Hearne	Granite	9.72	0.07	0.01	0.01	0.01	0.3	4.0	3.7	13.3	1.59
04-ARD-120-004	Hearne	Granite	9.48	0.12	0.01	0.01	0.01	0.3	2.8	2.5	9.3	2.73
04-ARD-120-005	Hearne	Granite	9.60	0.06	0.01	0.01	0.01	0.3	3.0	2.7	10.0	1.36
04-ARD-120-006	Hearne	Granite	9.58	0.05	0.01	0.01	0.01	0.3	2.2	1.9	7.3	1.14
04-ARD-120-007	Hearne	Granite	9.50	0.05	0.01	0.01	0.01	0.3	3.0	2.7	10.0	1.14
04-ARD-120-008	Hearne	Granite	9.47	0.23	0.01	0.01	0.01	0.3	5.5	5.2	18.3	5.23
04-ARD-120-009	Hearne	Granite	9.35	0.05	0.01	0.01	0.01	0.3	2.2	1.9	7.3	1.14
04-ARD-120-010	Hearne	Granite	9.45	0.11	0.01	0.01	0.01	0.3	4.5	4.2	15.0	2.50
04-ARD-120-013	Hearne	Granite	9.32	0.08	0.01	0.01	0.01	0.3	3.2	2.9	10.7	1.82
04-ARD-120-014	Hearne	Granite	9.40	0.11	0.01	0.01	0.01	0.3	4.2	3.9	14.0	2.50
04-ARD-120-015	Hearne	Granite	9.36	0.14	0.02	0.01	0.02	0.6	7.0	6.4	11.2	3.18
04-ARD-120-016	Hearne	Granite	9.37	0.07	0.01	0.01	0.01	0.3	5.0	4.7	16.7	1.59
04-ARD-120-017	Hearne	Granite	9.17	0.10	0.02	0.01	0.02	0.6	5.5	4.9	8.8	2.27
04-ARD-120-018	Hearne	Granite	9.51	0.11	0.01	0.01	0.01	0.3	11.0	10.7	36.7	2.50
04-ARD-120-019	Hearne	Granite	9.45	0.08	0.03	0.01	0.03	0.9	4.5	3.6	4.8	1.82
04-ARD-120-020	Hearne	Granite	9.40	0.10	0.02	0.01	0.02	0.6	5.2	4.6	8.3	2.27
04-ARD-120-021	Hearne	Granite	8.95	0.22	0.01	0.01	0.01	0.3	6.0	5.7	20.0	5.00
04-ARD-120-022	Hearne	Granite	8.93	0.01	0.01	0.01	0.01	0.3	1.8	1.5	6.0	0.11
04-ARD-120-023	Hearne	Granite	8.86	0.04	0.01	0.01	0.01	0.3	2.2	1.9	7.3	0.91
04-ARD-120-024	Hearne	Granite	9.03	0.05	0.01	0.01	0.01	0.3	1.8	1.5	6.0	1.14
04-ARD-120-025	Hearne	Granite	9.18	0.07	0.01	0.01	0.01	0.3	3.2	2.9	10.7	1.59
04-ARD-120-026	Hearne	Granite	9.20	0.05	0.01	0.01	0.01	0.3	2.2	1.9	7.3	1.14
04-ARD-120-027	Hearne	Granite	9.12	0.08	0.01	0.01	0.01	0.3	4.0	3.7	13.3	1.82
04-ARD-120-028	Hearne	Granite	9.00	0.08	0.01	0.01	0.01	0.3	3.5	3.2	11.7	1.82
04-ARD-120-029	Hearne	Granite	9.14	0.05	0.01	0.01	0.01	0.3	3.5	3.2	11.7	1.14
04-ARD-120-030	Hearne	Granite	9.03	0.02	0.01	0.01	0.01	0.3	2.5	2.2	8.3	0.45
04-ARD-120-031	Hearne	Granite	8.70	0.05	0.01	0.01	0.01	0.3	3.0	2.7	10.0	1.14
04-ARD-120-032	Hearne	Granite	8.92	0.09	0.01	0.01	0.01	0.3	5.0	4.7	16.7	2.05
04-ARD-120-033	Hearne	Granite	9.01	0.08	0.01	0.01	0.01	0.3	5.2	4.9	17.3	1.82
04-ARD-120-034	Hearne	Granite	8.91	0.11	0.03	0.01	0.03	0.9	3.2	2.3	3.4	2.50
04-ARD-120-035	Hearne	Granite	9.03	0.05	0.01	0.01	0.01	0.3	4.2	3.9	14.0	1.14
04-ARD-120-036	Hearne	Granite	9.31	0.08	0.01	0.01	0.01	0.3	2.2	1.9	7.3	1.82

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-120-037	Hearne	Granite	9.30	0.04	0.01	0.01	0.01	0.3	1.5	1.2	5.0	0.91
04-ARD-120-038	Hearne	Granite	9.28	0.09	0.18	0.01	0.18	5.6	8.8	3.2	1.6	2.05
04-ARD-120-039	Hearne	Granite	9.38	0.03	0.01	0.01	0.01	0.3	4.0	3.7	13.3	0.68
04-ARD-120-040	Hearne	Granite	9.40	0.09	0.01	0.01	0.01	0.3	4.5	4.2	15.0	2.05
04-ARD-120-041	Hearne	Granite	9.10	0.08	0.01	0.01	0.01	0.3	4.8	4.5	16.0	1.82
04-ARD-120-042	Hearne	Granite	9.00	0.33	0.01	0.01	0.01	0.3	8.8	8.5	29.3	7.50
04-ARD-120-043	Hearne	Granite	9.02	0.08	0.01	0.01	0.01	0.3	5.2	4.9	17.3	1.82
04-ARD-120-044	Hearne	Granite	9.01	0.15	0.02	0.01	0.02	0.6	6.2	5.6	9.9	3.41
04-ARD-120-045	Hearne	Granite	8.68	0.41	0.01	0.01	0.01	0.3	49.2	48.9	164.0	9.32
04-ARD-120-046	Hearne	Granite	9.31	0.27	0.01	0.01	0.01	0.3	158.0	157.7	526.7	6.14
04-ARD-120-047	Hearne	Granite	9.31	0.76	0.01	0.01	0.01	0.3	172.8	172.5	576.0	17.27
04-ARD-121-001	Hearne	Granite	9.27	0.03	0.01	0.01	0.01	0.3	1.5	1.2	5.0	0.68
04-ARD-121-002	Hearne	Granite	8.91	0.02	0.01	0.01	0.01	0.3	10.5	10.2	35.0	0.45
04-ARD-121-003	Hearne	Granite	9.01	0.05	0.01	0.01	0.01	0.3	4.8	4.5	16.0	1.14
04-ARD-121-004	Hearne	Granite	8.70	0.02	0.02	0.01	0.02	0.6	5.2	4.6	8.3	0.45
04-ARD-121-005	Hearne	Granite	8.80	0.09	0.01	0.01	0.01	0.3	2.2	1.9	7.3	2.05
04-ARD-121-006	Hearne	Granite	8.65	0.01	0.01	0.01	0.01	0.3	4.5	4.2	15.0	0.23
04-ARD-121-007	Hearne	Granite	8.90	0.03	0.01	0.01	0.01	0.3	2.2	1.9	7.3	0.68
04-ARD-121-008	Hearne	Granite	8.84	0.02	0.01	0.01	0.01	0.3	1.8	1.5	6.0	0.45
04-ARD-121-009	Hearne	Granite	8.51	0.02	0.01	0.01	0.01	0.3	4.0	3.7	13.3	0.45
04-ARD-121-009	Hearne	Granite	8.80	0.19	0.03	0.01	0.03	0.9	5.5	4.6	5.9	4.32
04-ARD-121-010	Hearne	Granite	8.98	0.04	0.01	0.01	0.01	0.3	1.8	1.5	6.0	0.91
04-ARD-121-011	Hearne	Granite	8.80	0.02	0.01	0.01	0.01	0.3	3.8	3.5	12.7	0.45
04-ARD-121-012	Hearne	Granite	8.88	0.04	0.01	0.01	0.01	0.3	3.0	2.7	10.0	0.91
04-ARD-121-013	Hearne	Granite	8.73	0.81	0.01	0.01	0.01	0.3	28.8	28.5	96.0	18.41
04-ARD-121-014	Hearne	Granite	8.65	0.11	0.01	0.01	0.01	0.3	3.0	2.7	10.0	2.50
04-ARD-121-015	Hearne	Granite	9.03	0.06	0.01	0.01	0.01	0.3	2.2	1.9	7.3	1.36
04-ARD-121-016	Hearne	Granite	8.54	0.07	0.01	0.01	0.01	0.3	3.0	2.7	10.0	1.59
04-ARD-121-017	Hearne	Granite	8.94	0.06	0.06	0.01	0.06	1.9	2.5	0.6	1.3	1.36
04-ARD-121-018	Hearne	Granite	8.77	0.04	0.01	0.01	0.01	0.3	1.0	0.7	3.3	0.91
04-ARD-121-019	Hearne	Granite	8.69	0.19	0.03	0.01	0.03	0.9	5.8	4.9	6.2	4.32
04-ARD-121-020	Hearne	Granite	8.73	0.08	0.04	0.01	0.04	1.3	2.8	1.6	2.2	1.82
04-ARD-121-021	Hearne	Granite	8.64	0.18	0.02	0.01	0.02	0.6	5.2	4.6	8.3	4.09
04-ARD-121-022	Hearne	Granite	8.78	0.09	0.01	0.01	0.01	0.3	3.5	3.2	11.7	2.05
04-ARD-121-023	Hearne	Granite	8.58	0.03	0.02	0.01	0.02	0.6	2.8	2.2	4.5	0.68
04-ARD-121-024	Hearne	Granite	8.70	0.04	0.03	0.01	0.03	0.9	2.0	1.1	2.1	0.91
04-ARD-121-046	Hearne	Granite	8.69	0.09	0.07	0.01	0.07	2.2	5.2	3.0	2.4	2.05

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-121-047	Hearne	Granite	9.04	0.07	0.07	0.01	0.07	2.2	7.0	4.8	3.2	1.59
04-ARD-121-048	Hearne	Granite	8.67	0.01	0.08	0.01	0.08	2.5	5.0	2.5	2.0	0.11
04-ARD-121-050	Hearne	Granite	8.50	0.52	0.12	0.01	0.12	3.8	8.3	4.6	2.2	11.82
04-ARD-121-051	Hearne	Granite	9.10	0.05	0.01	0.01	0.01	0.3	2.3	2.0	7.7	1.14
04-ARD-121-052	Hearne	Granite	9.10	0.03	0.03	0.01	0.03	0.9	2.8	1.9	3.0	0.68
04-ARD-142-001	Hearne	Granite	8.30	0.09	1.75	0.01	1.75	54.7	10.8	-43.9	0.2	2.05
04-ARD-142-002	Hearne	Granite	9.14	0.06	0.01	0.01	0.01	0.3	4.3	4.0	14.3	1.36
04-ARD-142-003	Hearne	Granite	9.32	0.02	0.01	0.01	0.01	0.3	3.5	3.2	11.7	0.45
04-ARD-142-004	Hearne	Granite	9.31	0.03	0.01	0.01	0.01	0.3	3.8	3.5	12.7	0.68
04-ARD-142-005	Hearne	Granite	9.18	0.01	0.01	0.01	0.01	0.3	4.0	3.7	13.3	0.23
04-ARD-142-006	Hearne	Granite	9.28	0.03	0.01	0.01	0.01	0.3	3.0	2.7	10.0	0.68
04-ARD-142-007	Hearne	Granite	9.33	0.02	0.02	0.01	0.02	0.6	5.0	4.4	8.0	0.45
04-ARD-142-008	Hearne	Granite	9.43	0.02	0.03	0.01	0.03	0.9	4.8	3.9	5.1	0.45
04-ARD-142-009	Hearne	Granite	9.28	0.05	0.04	0.01	0.04	1.3	5.6	4.4	4.5	1.14
04-ARD-142-010	Hearne	Granite	9.20	0.04	0.03	0.01	0.03	0.9	6.0	5.1	6.4	0.91
04-ARD-142-011	Hearne	Granite	9.21	0.03	0.01	0.01	0.01	0.3	4.5	4.2	15.0	0.68
04-ARD-142-012	Hearne	Granite	9.25	0.13	0.05	0.01	0.05	1.6	4.3	2.7	2.8	2.95
04-ARD-142-013	Hearne	Granite	9.28	0.12	0.02	0.01	0.02	0.6	5.8	5.2	9.3	2.73
04-ARD-142-014	Hearne	Granite	9.29	0.15	0.04	0.01	0.04	1.3	5.6	4.4	4.5	3.41
04-ARD-142-015	Hearne	Granite	9.20	0.02	0.01	0.01	0.01	0.3	3.8	3.5	12.7	0.45
04-ARD-142-016	Hearne	Granite	9.12	0.10	0.01	0.01	0.01	0.3	7.6	7.3	25.3	2.27
04-ARD-142-017	Hearne	Granite	9.23	0.12	0.01	0.01	0.01	0.3	6.0	5.7	20.0	2.73
04-ARD-142-018	Hearne	Granite	9.26	0.06	0.01	0.01	0.01	0.3	2.0	1.7	6.7	1.36
04-ARD-142-019	Hearne	Granite	9.28	0.03	0.01	0.01	0.01	0.3	3.0	2.7	10.0	0.68
04-ARD-142-020	Hearne	Granite	9.01	0.13	0.02	0.01	0.02	0.6	5.0	4.4	8.0	2.95
04-ARD-142-021	Hearne	Granite	8.91	0.03	0.01	0.01	0.01	0.3	1.3	1.0	4.3	0.68
04-ARD-142-022	Hearne	Granite	9.18	0.17	0.01	0.01	0.01	0.3	4.5	4.2	15.0	3.86
04-ARD-142-023	Hearne	Granite	9.30	0.12	0.01	0.01	0.01	0.3	4.0	3.7	13.3	2.73
04-ARD-142-024	Hearne	Granite	9.32	0.07	0.01	0.01	0.01	0.3	2.8	2.5	9.3	1.59
04-ARD-142-025	Hearne	Granite	9.34	0.01	0.01	0.01	0.01	0.3	3.2	2.9	10.7	0.11
04-ARD-142-026	Hearne	Granite	9.09	0.09	0.01	0.01	0.01	0.3	5.6	5.3	18.7	2.05
04-ARD-142-027	Hearne	Granite	9.26	0.07	0.01	0.01	0.01	0.3	2.5	2.2	8.3	1.59
04-ARD-142-028	Hearne	Granite	9.27	0.04	0.01	0.01	0.01	0.3	1.8	1.5	6.0	0.91
04-ARD-142-029	Hearne	Granite	9.39	0.14	0.03	0.01	0.03	0.9	5.0	4.1	5.3	3.18
04-ARD-142-030	Hearne	Granite	9.42	0.14	0.01	0.01	0.01	0.3	5.3	5.0	17.7	3.18
04-ARD-142-031	Hearne	Granite	9.20	0.07	0.01	0.01	0.01	0.3	2.0	1.7	6.7	1.59
04-ARD-142-032	Hearne	Granite	9.43	0.07	0.05	0.01	0.05	1.6	3.3	1.7	2.1	1.59

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-142-033	Hearne	Granite	9.25	0.11	0.02	0.01	0.02	0.6	5.0	4.4	8.0	2.50
04-ARD-142-034	Hearne	Granite	9.45	0.02	0.01	0.01	0.01	0.3	3.0	2.7	10.0	0.45
04-ARD-142-035	Hearne	Granite	8.72	0.13	0.01	0.01	0.01	0.3	4.3	4.0	14.3	2.95
04-ARD-142-036	Hearne	Granite	8.63	0.16	0.05	0.01	0.05	1.6	3.8	2.2	2.4	3.64
04-ARD-142-037	Hearne	Granite	8.85	0.12	0.01	0.01	0.01	0.3	5.3	5.0	17.7	2.73
04-ARD-142-038	Hearne	Granite	8.56	0.01	0.02	0.01	0.02	0.6	2.8	2.2	4.5	0.23
04-ARD-142-039	Hearne	Granite	8.97	0.13	0.01	0.01	0.01	0.3	3.5	3.2	11.7	2.95
04-ARD-142-040	Hearne	Granite	9.07	0.07	0.02	0.01	0.02	0.6	4.0	3.4	6.4	1.59
04-ARD-142-041	Hearne	Granite	9.08	0.09	0.01	0.01	0.01	0.3	3.3	3.0	11.0	2.05
04-ARD-142-042	Hearne	Granite	9.11	0.02	0.03	0.01	0.03	0.9	3.8	2.9	4.1	0.45
04-ARD-152-008	Hearne	Granite	8.84	0.02	0.01	0.01	0.01	0.3	5.6	5.3	18.7	0.45
04-ARD-152-009	Hearne	Granite	8.76	0.01	0.01	0.01	0.01	0.3	0.5	0.2	1.7	0.11
04-ARD-152-010	Hearne	Granite	9.08	0.12	0.04	0.01	0.04	1.3	3.8	2.6	3.0	2.73
04-ARD-152-011	Hearne	Granite	9.05	0.17	0.02	0.01	0.02	0.6	4.8	4.2	7.7	3.86
04-ARD-152-012	Hearne	Granite	9.02	0.09	0.02	0.01	0.02	0.6	4.8	4.2	7.7	2.05
04-ARD-152-013	Hearne	Granite	9.07	0.35	0.01	0.01	0.01	0.3	8.8	8.5	29.3	7.95
04-ARD-157-011	Hearne	Granite	8.90	0.01	0.01	0.01	0.01	0.3	1.8	1.5	6.0	0.11
04-ARD-157-012	Hearne	Granite	9.20	0.06	0.01	0.01	0.01	0.3	2.5	2.2	8.3	1.36
04-ARD-157-013	Hearne	Granite	8.33	0.01	0.01	0.01	0.01	0.3	3.3	3.0	11.0	0.11
04-ARD-157-014	Hearne	Granite	9.17	0.01	0.01	0.01	0.01	0.3	2.8	2.5	9.3	0.11
04-ARD-159-006	Hearne	Granite	9.10	0.05	0.03	0.01	0.03	0.9	3.5	2.6	3.7	1.14
04-ARD-193-017	Hearne	Granite	8.65	2.09	0.39	0.01	0.39	12.2	60.3	48.1	4.9	47.50
04-ARD-200-001	Hearne	Granite	9.21	0.06	0.01	0.01	0.01	0.3	3.3	3.0	11.0	1.36
04-ARD-200-002	Hearne	Granite	9.13	0.09	0.01	0.01	0.01	0.3	2.0	1.7	6.7	2.05
04-ARD-200-003	Hearne	Granite	9.34	0.06	0.01	0.01	0.01	0.3	2.5	2.2	8.3	1.36
04-ARD-200-004	Hearne	Granite	9.34	0.17	0.01	0.01	0.01	0.3	3.0	2.7	10.0	3.86
04-ARD-200-005	Hearne	Granite	8.55	0.06	0.01	0.01	0.01	0.3	1.2	0.9	4.0	1.36
04-ARD-200-006	Hearne	Granite	8.66	0.13	0.01	0.01	0.01	0.3	2.3	2.0	7.7	2.95
04-ARD-200-007	Hearne	Granite	8.83	0.01	0.01	0.01	0.01	0.3	1.5	1.2	5.0	0.11
04-ARD-200-008	Hearne	Granite	8.77	0.06	0.02	0.01	0.02	0.6	1.2	0.6	1.9	1.36
04-ARD-200-009	Hearne	Granite	8.94	0.05	0.01	0.01	0.01	0.3	1.5	1.2	5.0	1.14
04-ARD-200-010	Hearne	Granite	8.80	0.05	0.01	0.01	0.01	0.3	1.8	1.5	6.0	1.14
04-ARD-200-011	Hearne	Granite	8.87	0.01	0.01	0.01	0.01	0.3	0.5	0.2	1.7	0.11
04-ARD-200-012	Hearne	Granite	9.16	0.05	0.01	0.01	0.01	0.3	2.3	2.0	7.7	1.14
04-ARD-200-013	Hearne	Granite	9.16	0.09	0.01	0.01	0.01	0.3	2.3	2.0	7.7	2.05
04-ARD-200-014	Hearne	Granite	9.07	0.08	0.01	0.01	0.01	0.3	3.5	3.2	11.7	1.82
04-ARD-200-015	Hearne	Granite	8.98	0.07	0.01	0.01	0.01	0.3	5.0	4.7	16.7	1.59

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-200-016	Hearne	Granite	9.05	0.12	0.01	0.01	0.01	0.3	5.5	5.2	18.3	2.73
04-ARD-200-017	Hearne	Granite	9.21	0.01	0.01	0.01	0.01	0.3	2.3	2.0	7.7	0.11
04-ARD-200-018	Hearne	Granite	9.41	0.03	0.01	0.01	0.01	0.3	1.0	0.7	3.3	0.68
04-ARD-200-019	Hearne	Granite	9.23	0.14	0.02	0.01	0.02	0.6	5.0	4.4	8.0	3.18
04-ARD-200-020	Hearne	Granite	9.06	0.08	0.04	0.01	0.04	1.3	2.5	1.3	2.0	1.82
04-ARD-200-021	Hearne	Granite	9.25	0.13	0.11	0.01	0.11	3.4	7.3	3.9	2.1	2.95
04-ARD-200-022	Hearne	Granite	9.31	0.21	0.02	0.01	0.02	0.6	4.5	3.9	7.2	4.77
04-ARD-200-023	Hearne	Granite	9.38	0.10	0.06	0.01	0.06	1.9	4.8	2.9	2.6	2.27
04-ARD-200-024	Hearne	Granite	9.35	0.15	0.01	0.01	0.01	0.3	1.8	1.5	6.0	3.41
04-ARD-200-025	Hearne	Granite	9.28	0.22	0.02	0.01	0.02	0.6	2.8	2.2	4.5	5.00
04-ARD-200-026	Hearne	Granite	9.01	0.01	0.02	0.01	0.02	0.6	6.8	6.2	10.9	0.11
04-ARD-200-027	Hearne	Granite	9.23	0.13	0.01	0.01	0.01	0.3	3.5	3.2	11.7	2.95
04-ARD-200-028	Hearne	Granite	9.12	0.14	0.02	0.01	0.02	0.6	6.0	5.4	9.6	3.18
04-ARD-200-029	Hearne	Granite	9.29	0.14	0.01	0.01	0.01	0.3	7.8	7.5	26.0	3.18
04-ARD-200-030	Hearne	Granite	9.31	0.10	0.01	0.01	0.01	0.3	3.3	3.0	11.0	2.27
04-ARD-200-031	Hearne	Granite	9.18	0.16	0.01	0.01	0.01	0.3	3.5	3.2	11.7	3.64
04-ARD-200-032	Hearne	Granite	9.13	0.27	0.01	0.01	0.01	0.3	5.3	5.0	17.7	6.14
04-ARD-200-033	Hearne	Granite	9.15	0.13	0.01	0.01	0.01	0.3	8.0	7.7	26.7	2.95
04-ARD-200-034	Hearne	Granite	8.86	0.36	0.03	0.01	0.03	0.9	8.8	7.9	9.4	8.18
04-ARD-200-035	Hearne	Granite	8.17	0.53	0.24	0.01	0.24	7.5	15.1	7.6	2.0	12.05
04-ARD-191-001	Tuzo	Granite	8.47	0.05	0.01	0.01	0.01	0.3	2.5	2.2	8.3	1.14
04-ARD-191-002	Tuzo	Granite	8.52	0.01	0.01	0.01	0.01	0.3	4.3	4.0	14.3	0.11
04-ARD-191-003	Tuzo	Granite	8.27	0.16	0.01	0.01	0.01	0.3	2.0	1.7	6.7	3.64
04-ARD-191-004	Tuzo	Granite	8.42	0.01	0.01	0.01	0.01	0.3	1.3	1.0	4.3	0.23
04-ARD-191-005	Tuzo	Granite	8.62	0.13	0.01	0.01	0.01	0.3	6.3	6.0	21.0	2.95
04-ARD-191-010	Tuzo	Granite	8.58	0.06	0.01	0.01	0.01	0.3	4.2	3.9	14.0	1.36
04-ARD-191-011	Tuzo	Granite	8.83	0.09	0.01	0.01	0.01	0.3	5.1	4.8	17.0	2.05
04-ARD-191-012	Tuzo	Granite	8.73	0.13	0.01	0.01	0.01	0.3	4.7	4.4	15.7	2.95
04-ARD-191-013	Tuzo	Granite	8.83	0.18	0.01	0.01	0.01	0.3	7.8	7.5	26.0	4.09
04-ARD-191-014	Tuzo	Granite	8.81	0.14	0.01	0.01	0.01	0.3	6.8	6.5	22.7	3.18
04-ARD-191-015	Tuzo	Granite	8.86	0.04	0.01	0.01	0.01	0.3	5.9	5.6	19.7	0.91
04-ARD-191-016	Tuzo	Granite	8.85	0.16	0.01	0.01	0.01	0.3	8.6	8.3	28.7	3.64
04-ARD-191-017	Tuzo	Granite	8.92	0.12	0.01	0.01	0.01	0.3	7.3	7.0	24.3	2.73
04-ARD-191-018	Tuzo	Granite	8.91	0.12	0.01	0.01	0.01	0.3	8.0	7.7	26.7	2.73
04-ARD-191-019	Tuzo	Granite	8.79	0.47	0.01	0.01	0.01	0.3	11.9	11.6	39.7	10.68
04-ARD-191-020	Tuzo	Granite	8.95	0.12	0.01	0.01	0.01	0.3	8.6	8.3	28.7	2.73
04-ARD-191-021	Tuzo	Granite	8.77	0.11	0.01	0.01	0.01	0.3	9.1	8.8	30.3	2.50

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-191-022	Tuzo	Granite	9.04	0.17	0.01	0.01	0.01	0.3	10.5	10.2	35.0	3.86
04-ARD-191-023	Tuzo	Granite	8.98	0.24	0.01	0.01	0.01	0.3	11.5	11.2	38.3	5.45
04-ARD-191-024	Tuzo	Granite	9.07	0.17	0.02	0.01	0.02	0.6	10.0	9.4	16.0	3.86
04-ARD-191-025	Tuzo	Granite	9.08	0.08	0.05	0.01	0.05	1.6	8.3	6.7	5.3	1.82
04-ARD-191-026	Tuzo	Granite	9.10	0.10	0.01	0.01	0.01	0.3	5.1	4.8	17.0	2.27
04-ARD-191-027	Tuzo	Granite	9.17	0.06	0.01	0.01	0.01	0.3	7.1	6.8	23.7	1.36
04-ARD-191-028	Tuzo	Granite	9.05	0.07	0.01	0.01	0.01	0.3	5.4	5.1	18.0	1.59
04-ARD-191-029	Tuzo	Granite	9.01	0.10	0.01	0.01	0.01	0.3	5.4	5.1	18.0	2.27
04-ARD-191-030	Tuzo	Granite	9.08	0.03	0.01	0.01	0.01	0.3	3.3	3.0	11.0	0.68
06-ARD-246-003	Tuzo	Granite	8.93	0.01	0.02	0.01	0.02	0.6	4.2	3.5	6.7	0.11
06-ARD-246-004	Tuzo	Granite	9.11	0.06	0.01	0.01	0.01	0.3	5.1	4.8	17.2	1.36
06-ARD-246-005	Tuzo	Granite	8.73	0.02	0.01	0.01	0.01	0.3	7.4	7.1	24.5	0.45
06-ARD-246-006	Tuzo	Granite	8.93	0.03	0.05	0.01	0.05	1.6	3.9	2.4	2.5	0.68
06-ARD-246-007	Tuzo	Granite	8.68	0.02	0.03	0.01	0.03	0.9	3.2	2.2	3.4	0.45
06-ARD-246-008	Tuzo	Granite	8.95	0.04	0.02	0.01	0.02	0.6	5.9	5.3	9.4	0.91
06-ARD-246-009	Tuzo	Granite	9.13	0.03	0.02	0.01	0.02	0.6	4.7	4.0	7.4	0.68
06-ARD-246-010	Tuzo	Granite	8.99	0.02	0.03	0.01	0.03	0.9	5.9	4.9	6.3	0.45
06-ARD-246-011	Tuzo	Granite	9.01	0.07	0.04	0.01	0.04	1.3	7.4	6.1	5.9	1.59
06-ARD-246-012	Tuzo	Granite	8.81	0.01	0.01	0.01	0.01	0.3	5.6	5.3	18.8	0.11
06-ARD-247-001	Tuzo	Granite	9.09	0.04	0.06	0.01	0.06	1.9	6.4	4.5	3.4	0.91
06-ARD-247-007	Tuzo	Granite	8.53	0.04	0.14	0.01	0.14	4.4	5.9	1.6	1.4	0.91
06-ARD-247-008	Tuzo	Granite	9.16	0.12	0.01	0.01	0.01	0.3	7.7	7.4	25.5	2.73
06-ARD-248-012	Tuzo	Granite	8.70	0.04	0.01	0.01	0.01	0.3	5.9	5.6	19.8	0.91
06-ARD-249-001	Tuzo	Granite	9.15	0.08	0.02	0.01	0.02	0.6	6.9	6.3	11.1	1.82
06-ARD-249-002	Tuzo	Granite	9.10	0.08	0.07	0.01	0.07	2.2	6.0	3.9	2.8	1.82
06-ARD-249-003	Tuzo	Granite	9.01	0.07	0.04	0.01	0.04	1.3	3.4	2.2	2.7	1.59
06-ARD-249-004	Tuzo	Granite	9.13	0.11	0.02	0.01	0.02	0.6	5.0	4.4	8.1	2.50
06-ARD-249-005	Tuzo	Granite	8.83	0.02	0.19	0.01	0.19	5.9	3.6	-2.4	0.6	0.45
06-ARD-249-006	Tuzo	Granite	8.69	0.02	0.16	0.01	0.16	5.0	5.9	0.9	1.2	0.45
06-ARD-249-007	Tuzo	Granite	9.16	0.13	0.01	0.01	0.01	0.3	5.9	5.6	19.7	2.95
06-ARD-249-009	Tuzo	Granite	9.13	0.14	0.01	0.01	0.01	0.3	9.3	9.0	30.9	3.18
06-ARD-249-010	Tuzo	Granite	9.31	0.03	0.01	0.01	0.01	0.3	5.2	4.9	17.2	0.68
06-ARD-249-011	Tuzo	Granite	8.47	0.04	0.01	0.01	0.01	0.3	4.9	4.6	16.4	0.91
06-ARD-249-012	Tuzo	Granite	8.75	0.01	0.01	0.01	0.01	0.3	5.3	5.0	17.6	0.11
06-ARD-249-013	Tuzo	Granite	9.05	0.01	0.01	0.01	0.01	0.3	5.2	4.9	17.2	0.11
06-ARD-249-014	Tuzo	Granite	8.94	0.04	0.01	0.01	0.01	0.3	4.7	4.4	15.6	0.91
06-ARD-249-015	Tuzo	Granite	8.51	0.02	0.01	0.01	0.01	0.3	5.0	4.7	16.8	0.45

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-ARD-249-016	Tuzo	Granite	9.02	0.11	0.01	0.01	0.01	0.3	6.5	6.2	21.8	2.50
06-ARD-249-017	Tuzo	Granite	9.02	0.02	0.01	0.01	0.01	0.3	2.2	1.9	7.3	0.45
06-ARD-249-018	Tuzo	Granite	8.91	0.02	0.01	0.01	0.01	0.3	2.6	2.3	8.5	0.45
06-ARD-249-019	Tuzo	Granite	8.85	0.02	0.01	0.01	0.01	0.3	5.8	5.5	19.3	0.45
06-ARD-249-020	Tuzo	Granite	8.72	0.05	0.01	0.01	0.01	0.3	4.0	3.7	13.5	1.14
06-ARD-249-021	Tuzo	Granite	9.06	0.08	0.01	0.01	0.01	0.3	6.7	6.4	22.2	1.82
06-ARD-249-022	Tuzo	Granite	8.95	0.01	0.01	0.01	0.01	0.3	2.1	1.8	6.9	0.23
06-ARD-249-023	Tuzo	Granite	9.09	0.24	0.01	0.01	0.01	0.3	8.8	8.5	29.3	5.45
06-ARD-249-027	Tuzo	Granite	8.95	0.01	0.01	0.01	0.01	0.3	3.9	3.6	13.1	0.23
06-ARD-250-001	Tuzo	Granite	9.43	0.02	0.02	0.01	0.02	0.6	7.9	7.3	12.7	0.45
06-ARD-250-002	Tuzo	Granite	9.29	0.07	0.01	0.01	0.01	0.3	4.9	4.6	16.4	1.59
06-ARD-250-003	Tuzo	Granite	8.79	0.01	0.12	0.01	0.12	3.8	4.7	0.9	1.2	0.23
06-ARD-250-004	Tuzo	Granite	9.18	0.01	0.12	0.01	0.12	3.8	4.9	1.2	1.3	0.11
06-ARD-250-005	Tuzo	Granite	9.11	0.11	0.01	0.01	0.01	0.3	4.4	4.1	14.7	2.50
06-ARD-250-006	Tuzo	Granite	9.10	0.03	0.01	0.01	0.01	0.3	4.7	4.4	15.6	0.68
06-ARD-250-007	Tuzo	Granite	9.11	0.22	0.01	0.01	0.01	0.3	7.9	7.6	26.4	5.00
06-ARD-250-008	Tuzo	Granite	9.29	0.10	0.01	0.01	0.01	0.3	5.2	4.9	17.2	2.27
06-ARD-250-009	Tuzo	Granite	8.59	0.01	0.01	0.01	0.01	0.3	6.7	6.4	22.2	0.23
06-ARD-250-010	Tuzo	Granite	9.15	0.17	0.01	0.01	0.01	0.3	7.2	6.9	23.9	3.86
06-ARD-250-011	Tuzo	Granite	8.84	0.07	0.01	0.01	0.01	0.3	10.6	10.3	35.5	1.59
06-ARD-250-012	Tuzo	Granite	7.77	0.13	0.01	0.01	0.01	0.3	6.9	6.6	23.0	2.95
06-ARD-250-013	Tuzo	Granite	8.92	0.08	0.01	0.01	0.01	0.3	2.7	2.4	8.9	1.82
06-ARD-250-014	Tuzo	Granite	9.04	0.09	0.01	0.01	0.01	0.3	4.4	4.1	14.7	2.05
06-ARD-252-001	Tuzo	Granite	9.26	0.05	0.01	0.01	0.01	0.3	6.9	6.6	23.0	1.14
06-ARD-252-002	Tuzo	Granite	9.11	0.04	0.01	0.01	0.01	0.3	5.2	4.9	17.2	0.91
06-ARD-252-003	Tuzo	Granite	8.38	0.01	0.01	0.01	0.01	0.3	5.4	5.1	18.1	0.11
06-ARD-252-004	Tuzo	Granite	8.55	0.01	0.01	0.01	0.01	0.3	9.7	9.4	32.2	0.23
06-ARD-252-005	Tuzo	Granite	9.02	0.03	0.01	0.01	0.01	0.3	4.7	4.4	15.6	0.68
06-ARD-252-006	Tuzo	Granite	8.85	0.02	0.01	0.01	0.01	0.3	4.2	3.9	13.9	0.45
06-ARD-252-007	Tuzo	Granite	7.96	0.12	0.01	0.01	0.01	0.3	22.3	22.0	74.4	2.73
06-ARD-252-008	Tuzo	Granite	8.18	0.04	0.01	0.01	0.01	0.3	6.2	5.9	20.6	0.91
06-ARD-252-009	Tuzo	Granite	8.88	0.02	0.01	0.01	0.01	0.3	3.9	3.6	13.1	0.45
06-ARD-252-010	Tuzo	Granite	8.91	0.02	0.01	0.01	0.01	0.3	4.7	4.4	15.6	0.45
06-ARD-268-003	Tuzo	Granite	9.32	0.02	0.02	0.01	0.02	0.6	3.5	2.9	5.6	0.45
06-ARD-268-004	Tuzo	Granite	9.51	0.01	0.01	0.01	0.01	0.3	3.3	3.0	10.8	0.23
06-ARD-268-005	Tuzo	Granite	9.38	0.01	0.01	0.01	0.01	0.3	3.6	3.3	12.1	0.11
06-ARD-270-008	Tuzo	Granite	9.36	0.09	0.01	0.01	0.01	0.3	3.8	3.5	12.5	2.05

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-ARD-270-009	Tuzo	Granite	9.29	0.05	0.01	0.01	0.01	0.3	2.5	2.2	8.3	1.14
06-ARD-270-010	Tuzo	Granite	9.31	0.11	0.01	0.01	0.01	0.3	4.5	4.2	15.0	2.50
06-ARD-270-011	Tuzo	Granite	9.05	0.04	0.01	0.01	0.01	0.3	3.5	3.2	11.7	0.91
06-ARD-270-012	Tuzo	Granite	9.46	0.06	0.01	0.01	0.01	0.3	3.5	3.2	11.7	1.36
06-ARD-270-013	Tuzo	Granite	9.50	0.01	0.01	0.01	0.01	0.3	2.5	2.2	8.3	0.11
06-ARD-270-014	Tuzo	Granite	9.03	0.06	0.01	0.01	0.01	0.3	3.0	2.7	10.0	1.36
06-ARD-270-016	Tuzo	Granite	9.19	0.18	0.01	0.01	0.01	0.3	8.0	7.7	26.7	4.09
06-ARD-270-017	Tuzo	Granite	9.14	0.01	0.01	0.01	0.01	0.3	5.4	5.1	17.9	0.11
06-ARD-270-018	Tuzo	Granite	8.52	0.01	0.02	0.01	0.02	0.6	7.5	6.9	12.0	0.11
06-ARD-270-020	Tuzo	Granite	9.32	0.01	0.02	0.01	0.02	0.6	7.4	6.8	11.8	0.11
06-ARD-270-021	Tuzo	Granite	9.29	0.03	0.04	0.01	0.04	1.3	7.3	6.0	5.8	0.68
06-ARD-271-002	Tuzo	Granite	9.16	0.01	0.02	0.01	0.02	0.6	2.8	2.1	4.4	0.11
06-ARD-271-003	Tuzo	Granite	9.24	0.01	0.01	0.01	0.01	0.3	1.8	1.5	5.8	0.11
06-ARD-271-004	Tuzo	Granite	9.14	0.01	0.01	0.01	0.01	0.3	1.9	1.6	6.3	0.11
06-ARD-272-001	Tuzo	Granite	9.62	0.01	0.07	0.01	0.07	2.2	1.9	-0.3	0.9	0.11
06-ARD-272-002	Tuzo	Granite	9.08	0.01	0.04	0.01	0.04	1.3	2.1	0.9	1.7	0.11
06-ARD-272-003	Tuzo	Granite	9.13	0.01	0.02	0.01	0.02	0.6	4.3	3.6	6.8	0.11
06-ARD-272-004	Tuzo	Granite	9.14	0.04	0.05	0.01	0.05	1.6	4.0	2.4	2.6	0.91
06-ARD-272-005	Tuzo	Granite	9.16	0.01	0.08	0.01	0.08	2.5	7.3	4.8	2.9	0.11
06-ARD-272-006	Tuzo	Granite	9.26	0.01	0.37	0.01	0.37	11.6	4.9	-6.7	0.4	0.11
06-ARD-272-007	Tuzo	Granite	9.07	0.01	0.26	0.01	0.26	8.1	4.5	-3.6	0.6	0.11
06-ARD-272-008	Tuzo	Granite	9.05	0.01	0.20	0.01	0.20	6.3	5.0	-1.3	0.8	0.11
06-ARD-272-009	Tuzo	Granite	8.56	0.01	0.02	0.01	0.02	0.6	1.8	1.1	2.8	0.11
06-ARD-272-010	Tuzo	Granite	9.04	0.14	0.03	0.01	0.03	0.9	6.8	5.8	7.2	3.18
06-ARD-272-011	Tuzo	Granite	9.20	0.01	0.01	0.01	0.01	0.3	2.4	2.1	7.9	0.11
06-ARD-272-012	Tuzo	Granite	8.23	0.48	0.08	0.01	0.08	2.5	18.4	15.9	7.4	10.91
06-ARD-272-013	Tuzo	Granite	8.87	0.01	0.11	0.01	0.11	3.4	17.0	13.6	4.9	0.11
06-ARD-272-014	Tuzo	Granite	8.98	0.01	0.01	0.01	0.01	0.3	6.3	6.0	20.8	0.11
06-ARD-272-015	Tuzo	Granite	8.98	0.11	0.02	0.01	0.02	0.6	6.0	5.4	9.6	2.50
06-ARD-272-016	Tuzo	Granite	9.07	0.08	0.01	0.01	0.01	0.3	2.1	1.8	7.1	1.82
06-ARD-272-017	Tuzo	Granite	8.96	0.01	0.05	0.01	0.05	1.6	10.3	8.7	6.6	0.11
06-ARD-272-018	Tuzo	Granite	8.61	0.47	0.08	0.01	0.08	2.5	11.3	8.8	4.5	10.68
06-ARD-272-019	Tuzo	Granite	8.86	3.56	0.13	0.01	0.13	4.1	83.8	79.7	20.6	80.91
06-ARD-274-001	Tuzo	Granite	9.11	0.08	0.04	0.01	0.04	1.3	3.3	2.0	2.6	1.82
06-ARD-274-002	Tuzo	Granite	9.30	0.04	0.01	0.01	0.01	0.3	4.4	4.1	14.6	0.91
06-ARD-274-003	Tuzo	Granite	9.39	0.01	0.01	0.01	0.01	0.3	2.5	2.2	8.3	0.11
06-ARD-274-004	Tuzo	Granite	9.37	0.05	0.01	0.01	0.01	0.3	3.8	3.5	12.5	1.14

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-ARD-274-005	Tuzo	Granite	8.53	0.01	0.02	0.01	0.02	0.6	2.8	2.1	4.4	0.11
06-ARD-274-006	Tuzo	Granite	9.25	0.07	0.02	0.01	0.02	0.6	4.5	3.9	7.2	1.59
06-ARD-274-007	Tuzo	Granite	9.36	0.01	0.03	0.01	0.03	0.9	3.0	2.0	3.2	0.23
06-ARD-274-008	Tuzo	Granite	9.33	0.06	0.02	0.01	0.02	0.6	5.3	4.7	8.6	1.36
06-ARD-274-009	Tuzo	Granite	9.31	0.01	0.02	0.01	0.02	0.6	2.7	2.1	4.4	0.11
06-ARD-274-010	Tuzo	Granite	9.34	0.04	0.01	0.01	0.01	0.3	3.2	2.9	10.8	0.91
06-ARD-274-011	Tuzo	Granite	9.16	0.03	0.01	0.01	0.01	0.3	2.4	2.1	7.9	0.68
06-ARD-276-001	Tuzo	Granite	9.26	0.05	0.02	0.01	0.02	0.6	3.5	2.9	5.6	1.14
06-ARD-276-002	Tuzo	Granite	9.11	0.14	0.10	0.01	0.10	3.1	8.6	5.5	2.7	3.18
06-ARD-276-003	Tuzo	Granite	9.06	0.06	0.03	0.01	0.03	0.9	3.9	2.9	4.1	1.36
06-ARD-276-004	Tuzo	Granite	9.12	0.05	0.14	0.01	0.14	4.4	2.1	-2.3	0.5	1.14
06-ARD-276-005	Tuzo	Granite	8.68	0.06	0.12	0.01	0.12	3.8	2.4	-1.4	0.6	1.36
06-ARD-276-006	Tuzo	Granite	9.19	0.08	0.16	0.01	0.16	5.0	2.7	-2.3	0.5	1.82
06-ARD-276-007	Tuzo	Granite	9.04	0.04	0.26	0.01	0.26	8.1	5.7	-2.4	0.7	0.91
06-ARD-276-008	Tuzo	Granite	9.05	0.11	0.03	0.01	0.03	0.9	5.6	4.7	6.0	2.50
06-ARD-276-009	Tuzo	Granite	9.18	0.04	0.01	0.01	0.01	0.3	5.5	5.2	18.2	0.91
06-ARD-276-010	Tuzo	Granite	8.71	0.02	0.02	0.01	0.02	0.6	4.2	3.6	6.8	0.45
06-ARD-276-011	Tuzo	Granite	9.60	0.07	0.01	0.01	0.01	0.3	4.0	3.7	13.3	1.59
06-ARD-276-012	Tuzo	Granite	9.24	0.07	0.01	0.01	0.01	0.3	5.1	4.8	17.0	1.59
06-ARD-276-013	Tuzo	Granite	9.07	0.11	0.05	0.01	0.05	1.6	6.0	4.4	3.8	2.50
06-ARD-276-014	Tuzo	Granite	8.92	0.02	0.01	0.01	0.01	0.3	5.5	5.2	18.2	0.45
06-ARD-276-015	Tuzo	Granite	9.08	0.31	0.07	0.01	0.07	2.2	19.2	17.0	8.8	7.05
06-ARD-276-019	Tuzo	Granite	9.18	0.10	0.04	0.01	0.04	1.3	3.2	2.0	2.6	2.27
06-ARD-277-001	Tuzo	Granite	9.27	0.03	0.02	0.01	0.02	0.6	3.5	2.9	5.6	0.68
06-ARD-277-002	Tuzo	Granite	9.06	0.01	0.01	0.01	0.01	0.3	3.1	2.8	10.4	0.11
06-ARD-277-003	Tuzo	Granite	9.39	0.01	0.02	0.01	0.02	0.6	7.7	7.1	12.3	0.11
06-ARD-277-004	Tuzo	Granite	9.31	0.01	0.02	0.01	0.02	0.6	3.5	2.9	5.6	0.11
06-ARD-277-005	Tuzo	Granite	9.35	0.01	0.02	0.01	0.02	0.6	3.7	3.1	6.0	0.11
06-ARD-277-006	Tuzo	Granite	9.08	0.01	0.02	0.01	0.02	0.6	4.0	3.4	6.4	0.11
06-ARD-277-007	Tuzo	Granite	9.57	0.02	0.01	0.01	0.01	0.3	2.5	2.2	8.3	0.45
06-ARD-277-008	Tuzo	Granite	9.33	0.01	0.04	0.01	0.04	1.3	2.0	0.7	1.6	0.11
06-ARD-277-012	Tuzo	Granite	9.40	0.04	0.02	0.01	0.02	0.6	5.0	4.4	8.0	0.91
06-ARD-277-013	Tuzo	Granite	8.54	0.03	0.02	0.01	0.02	0.6	3.3	2.6	5.2	0.68
06-ARD-277-014	Tuzo	Granite	9.47	0.07	0.01	0.01	0.01	0.3	4.3	4.0	14.2	1.59
06-ARD-277-015	Tuzo	Granite	9.23	0.02	0.01	0.01	0.01	0.3	2.5	2.2	8.3	0.45
06-ARD-277-016	Tuzo	Granite	9.28	0.08	0.01	0.01	0.01	0.3	4.5	4.2	15.0	1.82
06-ARD-277-017	Tuzo	Granite	9.49	0.04	0.04	0.01	0.04	1.3	3.1	1.9	2.5	0.91

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-ARD-277-018	Tuzo	Granite	9.32	0.07	0.02	0.01	0.02	0.6	3.8	3.1	6.0	1.59
06-ARD-277-019	Tuzo	Granite	9.07	0.07	0.03	0.01	0.03	0.9	3.9	2.9	4.1	1.59
06-ARD-277-020	Tuzo	Granite	8.56	0.04	0.01	0.01	0.01	0.3	3.3	3.0	10.8	0.91
06-ARD-277-021	Tuzo	Granite	9.07	0.17	0.04	0.01	0.04	1.3	5.3	4.0	4.2	3.86
06-ARD-277-024	Tuzo	Granite	9.17	0.01	0.01	0.01	0.01	0.3	3.0	2.7	10.0	0.11
06-ARD-277-025	Tuzo	Granite	8.35	0.13	0.03	0.01	0.03	0.9	10.8	9.8	11.5	2.95
06-ARD-277-026	Tuzo	Granite	8.49	0.15	0.02	0.01	0.02	0.6	5.0	4.4	8.0	3.41
06-ARD-277-027	Tuzo	Granite	8.46	0.06	0.02	0.01	0.02	0.6	3.5	2.9	5.6	1.36
06-ARD-277-028	Tuzo	Granite	8.37	0.01	0.02	0.01	0.02	0.6	3.5	2.9	5.6	0.23
06-ARD-277-029	Tuzo	Granite	9.06	0.02	0.01	0.01	0.01	0.3	3.0	2.7	10.0	0.45
06-ARD-277-030	Tuzo	Granite	8.92	0.07	0.02	0.01	0.02	0.6	5.8	5.1	9.2	1.59
06-ARD-277-031	Tuzo	Granite	8.25	0.09	0.27	0.01	0.27	8.4	6.8	-1.7	0.8	2.05
06-ARD-277-032	Tuzo	Granite	8.20	0.01	0.05	0.01	0.05	1.6	7.1	5.6	4.6	0.11
06-ARD-277-033	Tuzo	Granite	9.53	0.09	0.03	0.01	0.03	0.9	5.4	4.4	5.7	2.05
06-ARD-277-034	Tuzo	Granite	9.35	0.11	0.03	0.01	0.03	0.9	4.6	3.7	4.9	2.50
06-ARD-277-035	Tuzo	Granite	9.45	0.03	0.01	0.01	0.01	0.3	3.8	3.5	12.5	0.68
06-ARD-277-036	Tuzo	Granite	9.48	0.04	0.01	0.01	0.01	0.3	2.9	2.6	9.6	0.91
06-ARD-277-037	Tuzo	Granite	9.50	0.24	0.01	0.01	0.01	0.3	9.4	9.1	31.3	5.45
06-ARD-277-038	Tuzo	Granite	9.55	0.03	0.03	0.01	0.03	0.9	3.9	2.9	4.1	0.68
06-ARD-277-039	Tuzo	Granite	9.45	0.05	0.08	0.01	0.08	2.5	4.3	1.8	1.7	1.14
06-ARD-277-040	Tuzo	Granite	9.40	0.01	0.02	0.01	0.02	0.6	6.6	6.0	10.6	0.11
06-ARD-277-041	Tuzo	Granite	9.39	0.03	0.02	0.01	0.02	0.6	6.0	5.4	9.6	0.68
06-ARD-277-042	Tuzo	Granite	8.55	0.06	0.07	0.01	0.07	2.2	4.8	2.6	2.2	1.36
06-ARD-277-043	Tuzo	Granite	9.25	0.22	0.01	0.01	0.01	0.3	11.3	11.0	37.5	5.00
06-ARD-277-044	Tuzo	Granite	8.51	0.40	0.01	0.01	0.01	0.3	11.5	11.2	38.3	9.09
06-GTC-263-001	Tuzo	Granite	8.67	0.01	0.01	0.01	0.01	0.3	2.4	2.1	7.9	0.11
06-GTC-263-002	Tuzo	Granite	9.08	0.14	0.01	0.01	0.01	0.3	3.8	3.5	12.5	3.18
06-GTC-263-003	Tuzo	Granite	8.46	0.02	0.01	0.01	0.01	0.3	2.4	2.1	7.9	0.45
06-GTC-263-004	Tuzo	Granite	8.78	0.01	0.01	0.01	0.01	0.3	2.3	2.0	7.5	0.11
06-GTC-263-005	Tuzo	Granite	8.69	0.01	0.01	0.01	0.01	0.3	12.8	12.5	42.5	0.23
06-GTC-263-006	Tuzo	Granite	8.65	0.01	0.01	0.01	0.01	0.3	1.8	1.5	5.8	0.23
06-GTC-263-007	Tuzo	Granite	7.99	0.01	0.02	0.01	0.02	0.6	2.8	2.1	4.4	0.23
06-GTC-263-010	Tuzo	Granite	9.02	0.02	0.01	0.01	0.01	0.3	3.0	2.7	10.0	0.45
06-GTC-263-011	Tuzo	Granite	9.03	0.02	0.01	0.01	0.01	0.3	5.4	5.1	17.9	0.45
06-GTC-263-012	Tuzo	Granite	9.16	0.14	0.01	0.01	0.01	0.3	6.6	6.3	22.1	3.18
06-GTC-263-013	Tuzo	Granite	9.18	0.15	0.01	0.01	0.01	0.3	7.4	7.1	24.6	3.41
06-GTC-263-014	Tuzo	Granite	9.31	0.19	0.03	0.01	0.02	0.6	11.3	10.6	18.0	4.32

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-GTC-263-015	Tuzo	Granite	9.25	0.04	0.01	0.01	0.01	0.3	4.8	4.5	15.8	0.91
06-GTC-263-016	Tuzo	Granite	9.22	0.12	0.02	0.01	0.01	0.3	5.5	5.2	17.6	2.73
06-GTC-263-017	Tuzo	Granite	8.97	0.31	0.01	0.01	0.01	0.3	9.9	9.6	32.9	7.05
06-GTC-263-018	Tuzo	Granite	9.17	0.13	0.03	0.01	0.03	0.9	5.5	4.6	5.9	2.95
06-GTC-263-019	Tuzo	Granite	9.32	0.08	0.17	0.01	0.17	5.3	4.6	-0.7	0.9	1.82
06-GTC-263-020	Tuzo	Granite	9.43	0.07	0.05	0.01	0.04	1.3	3.5	2.3	2.8	1.59
06-GTC-263-021	Tuzo	Granite	9.12	0.40	0.02	0.01	0.02	0.6	8.4	7.8	13.4	9.09
06-GTC-263-022	Tuzo	Granite	8.89	3.54	0.03	0.01	0.03	0.9	206.9	205.9	220.7	80.45
06-GTC-265-001	Tuzo	Granite	8.86	0.03	0.02	0.01	0.02	0.6	2.5	1.9	4.0	0.68
07-ARD-278-001	Tuzo	Granite	8.99	0.05	0.11	0.01	0.11	3.4	4.4	0.9	1.3	1.14
07-ARD-278-002	Tuzo	Granite	9.19	0.04	0.03	0.01	0.03	0.9	4.6	3.7	4.9	0.91
07-ARD-278-003	Tuzo	Granite	8.66	0.01	0.04	0.01	0.04	1.3	5.0	3.7	4.0	0.23
07-ARD-278-004	Tuzo	Granite	9.37	0.03	0.06	0.01	0.06	1.9	5.7	3.8	3.1	0.68
07-ARD-279-001	Tuzo	Granite	9.23	0.14	0.08	0.01	0.08	2.5	6.7	4.2	2.7	3.18
07-ARD-279-002	Tuzo	Granite	9.21	0.15	0.02	0.01	0.02	0.6	8.0	7.3	12.7	3.41
07-ARD-282-001	Tuzo	Granite	8.98	0.01	0.02	0.01	0.02	0.6	4.2	3.6	6.8	0.11
07-ARD-282-002	Tuzo	Granite	9.08	0.01	0.05	0.01	0.05	1.6	3.9	2.3	2.5	0.11
07-ARD-282-003	Tuzo	Granite	9.40	0.07	0.05	0.01	0.05	1.6	3.7	2.2	2.4	1.59
07-ARD-282-004	Tuzo	Granite	9.03	0.01	0.01	0.01	0.01	0.3	1.7	1.4	5.8	0.23
07-ARD-282-006	Tuzo	Granite	9.04	0.04	0.01	0.01	0.01	0.3	3.5	3.2	11.6	0.91
07-ARD-282-007	Tuzo	Granite	9.04	0.04	0.01	0.01	0.01	0.3	2.4	2.1	7.9	0.91
07-ARD-282-008	Tuzo	Granite	8.81	0.22	0.02	0.01	0.02	0.6	7.6	7.0	12.1	5.00
07-ARD-282-009	Tuzo	Granite	8.65	0.11	0.01	0.01	0.01	0.3	2.0	1.7	6.6	2.50
07-ARD-282-010	Tuzo	Granite	9.11	0.33	0.01	0.01	0.01	0.3	9.7	9.4	32.3	7.50
07-ARD-282-011	Tuzo	Granite	8.92	0.05	0.02	0.01	0.02	0.6	3.5	2.9	5.6	1.14
07-ARD-282-012	Tuzo	Granite	8.90	0.10	0.14	0.01	0.14	4.4	2.6	-1.8	0.6	2.27
07-ARD-282-013	Tuzo	Granite	8.51	0.06	0.14	0.01	0.14	4.4	4.4	0.0	1.0	1.36
07-ARD-282-014	Tuzo	Granite	8.69	0.01	0.03	0.01	0.03	0.9	2.4	1.4	2.5	0.11
07-ARD-282-015	Tuzo	Granite	8.99	0.03	0.08	0.01	0.08	2.5	4.1	1.6	1.6	0.68
07-ARD-283-001	Tuzo	Granite	9.05	0.01	0.01	0.01	0.01	0.3	0.9	0.6	2.9	0.11
07-ARD-283-002	Tuzo	Granite	9.14	0.01	0.01	0.01	0.01	0.3	1.5	1.2	5.0	0.11
07-ARD-283-003	Tuzo	Granite	9.02	0.01	0.01	0.01	0.01	0.3	2.2	1.9	7.5	0.11
07-ARD-283-004	Tuzo	Granite	8.91	0.01	0.01	0.01	0.01	0.3	0.2	-0.1	0.8	0.11
07-ARD-283-005	Tuzo	Granite	8.96	0.01	0.01	0.01	0.01	0.3	1.2	0.9	4.1	0.11
07-ARD-283-006	Tuzo	Granite	9.09	0.01	0.02	0.01	0.02	0.6	2.1	1.5	3.4	0.11
07-ARD-283-007	Tuzo	Granite	9.06	0.14	0.01	0.01	0.01	0.3	6.2	5.9	20.7	3.18
07-ARD-283-008	Tuzo	Granite	9.11	0.04	0.01	0.01	0.01	0.3	3.7	3.4	12.4	0.91

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
07-ARD-283-009	Tuzo	Granite	9.05	0.06	0.01	0.01	0.01	0.3	3.5	3.2	11.6	1.36
07-ARD-283-010	Tuzo	Granite	8.93	0.06	0.01	0.01	0.01	0.3	5.6	5.3	18.7	1.36
07-ARD-283-011	Tuzo	Granite	9.06	0.11	0.01	0.01	0.01	0.3	6.3	6.0	21.1	2.50
07-ARD-283-012	Tuzo	Granite	9.11	0.13	0.02	0.01	0.01	0.3	7.6	7.3	24.3	2.95
07-ARD-284-001	Tuzo	Granite	8.85	0.01	0.02	0.01	0.02	0.6	1.5	0.9	2.4	0.11
07-ARD-284-002	Tuzo	Granite	8.94	0.01	0.02	0.01	0.02	0.6	6.1	5.5	9.8	0.11
07-ARD-284-003	Tuzo	Granite	9.06	0.01	0.01	0.01	0.01	0.3	1.5	1.2	5.0	0.11
07-ARD-284-004	Tuzo	Granite	9.03	0.01	0.02	0.01	0.02	0.6	0.7	0.1	1.2	0.11
07-ARD-284-005	Tuzo	Granite	8.98	0.01	0.05	0.01	0.05	1.6	2.9	1.3	1.8	0.11
07-ARD-284-006	Tuzo	Granite	9.12	0.04	0.01	0.01	0.01	0.3	3.2	2.9	10.8	0.91
07-ARD-284-007	Tuzo	Granite	8.67	0.51	0.12	0.01	0.12	3.8	13.1	9.3	3.5	11.59
07-ARD-284-008	Tuzo	Granite	8.99	0.07	0.03	0.01	0.03	0.9	4.4	3.4	4.6	1.59
07-ARD-284-009	Tuzo	Granite	9.26	0.01	0.02	0.01	0.02	0.6	2.5	1.9	4.0	0.11
07-ARD-284-010	Tuzo	Granite	9.11	0.01	0.01	0.01	0.01	0.3	4.5	4.2	14.9	0.11
07-ARD-285-001	Tuzo	Granite	9.09	0.04	0.01	0.01	0.01	0.3	5.2	4.9	17.4	0.91
07-ARD-285-002	Tuzo	Granite	8.88	0.01	0.09	0.01	0.09	2.8	1.5	-1.3	0.5	0.11
07-ARD-285-003	Tuzo	Granite	9.13	0.03	0.01	0.01	0.01	0.3	5.6	5.3	18.7	0.68
07-ARD-285-004	Tuzo	Granite	9.10	0.04	0.03	0.01	0.03	0.9	3.6	2.7	3.8	0.91
07-ARD-285-005	Tuzo	Granite	8.89	0.02	0.01	0.01	0.01	0.3	1.4	1.1	4.5	0.45
07-ARD-285-007	Tuzo	Granite	9.01	0.01	0.03	0.01	0.03	0.9	4.1	3.2	4.4	0.11
07-ARD-286-001	Tuzo	Granite	9.39	0.01	0.01	0.01	0.01	0.3	4.8	4.5	16.1	0.11
07-ARD-286-002	Tuzo	Granite	9.23	0.01	0.01	0.01	0.01	0.3	2.2	1.9	7.4	0.11
07-ARD-286-003	Tuzo	Granite	9.08	0.18	0.03	0.01	0.03	0.9	1.0	0.1	1.1	4.09
07-ARD-286-004	Tuzo	Granite	9.13	0.01	0.01	0.01	0.01	0.3	2.0	1.7	6.6	0.11
07-ARD-286-005	Tuzo	Granite	9.23	0.02	0.02	0.01	0.02	0.6	3.1	2.5	5.0	0.45
07-ARD-286-006	Tuzo	Granite	9.01	0.01	0.04	0.01	0.04	1.3	1.6	0.4	1.3	0.11
07-ARD-286-007	Tuzo	Granite	9.16	0.01	0.01	0.01	0.01	0.3	2.7	2.4	9.1	0.23
07-ARD-286-008	Tuzo	Granite	9.17	0.01	0.01	0.01	0.01	0.3	3.6	3.3	12.0	0.23
07-ARD-286-009	Tuzo	Granite	9.26	0.01	0.02	0.01	0.02	0.6	3.5	2.8	5.6	0.23
07-ARD-286-010	Tuzo	Granite	9.09	0.02	0.01	0.01	0.01	0.3	2.5	2.2	8.3	0.45
07-ARD-286-011	Tuzo	Granite	9.04	0.07	0.02	0.01	0.02	0.6	4.7	4.1	7.5	1.59
07-ARD-286-012	Tuzo	Granite	9.12	0.04	0.02	0.01	0.02	0.6	3.0	2.4	4.8	0.91
07-ARD-286-013	Tuzo	Granite	9.17	0.08	0.01	0.01	0.01	0.3	5.3	5.0	17.8	1.82
07-ARD-286-014	Tuzo	Granite	9.26	0.01	0.01	0.01	0.01	0.3	2.5	2.2	8.3	0.11
07-ARD-286-015	Tuzo	Granite	9.15	0.21	0.01	0.01	0.01	0.3	7.6	7.3	25.2	4.77
07-ARD-286-016	Tuzo	Granite	9.21	0.09	0.01	0.01	0.01	0.3	6.6	6.3	21.9	2.05
07-ARD-287-001	Tuzo	Granite	9.09	0.12	0.01	0.01	0.01	0.3	1.9	1.6	6.2	2.73

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
07-ARD-287-002	Tuzo	Granite	8.95	0.04	0.02	0.01	0.02	0.6	4.0	3.3	6.4	0.91
07-ARD-287-003	Tuzo	Granite	9.18	0.03	0.01	0.01	0.01	0.3	3.7	3.4	12.4	0.68
07-ARD-287-004	Tuzo	Granite	9.17	0.05	0.01	0.01	0.01	0.3	4.3	4.0	14.5	1.14
07-ARD-287-006	Tuzo	Granite	9.06	0.08	0.02	0.01	0.02	0.6	4.8	4.2	7.7	1.82
07-ARD-287-007	Tuzo	Granite	9.15	0.04	0.01	0.01	0.01	0.3	4.5	4.2	14.9	0.91
07-ARD-287-008	Tuzo	Granite	9.12	0.01	0.01	0.01	0.01	0.3	4.3	4.0	14.5	0.23
07-ARD-287-009	Tuzo	Granite	8.98	0.01	0.01	0.01	0.01	0.3	5.6	5.3	18.6	0.11
07-ARD-287-010	Tuzo	Granite	8.88	0.06	0.05	0.01	0.05	1.6	1.7	0.2	1.1	1.36
07-ARD-287-011	Tuzo	Granite	9.09	0.04	0.06	0.01	0.06	1.9	2.9	1.0	1.5	0.91
07-ARD-287-012	Tuzo	Granite	8.78	0.02	0.07	0.01	0.07	2.2	1.6	-0.6	0.7	0.45
07-ARD-287-013	Tuzo	Granite	8.71	0.01	0.04	0.01	0.04	1.3	8.2	6.9	6.6	0.11
07-ARD-287-014	Tuzo	Granite	9.26	0.06	0.05	0.01	0.05	1.6	7.9	6.4	5.1	1.36
07-ARD-287-015	Tuzo	Granite	9.19	0.06	0.06	0.01	0.06	1.9	3.1	1.2	1.7	1.36
07-ARD-287-016	Tuzo	Granite	8.96	0.01	0.05	0.01	0.05	1.6	1.6	0.1	1.0	0.11
07-ARD-287-017	Tuzo	Granite	9.20	0.04	0.05	0.01	0.05	1.6	2.9	1.3	1.8	0.91
07-ARD-287-018	Tuzo	Granite	8.88	0.23	0.05	0.01	0.05	1.6	9.6	8.0	6.1	5.23
07-ARD-287-019	Tuzo	Granite	8.95	0.10	0.06	0.01	0.06	1.9	6.5	4.6	3.4	2.27
07-ARD-287-020	Tuzo	Granite	9.27	0.02	0.01	0.01	0.01	0.3	5.0	4.7	16.5	0.45
07-ARD-287-021	Tuzo	Granite	8.77	1.07	0.02	0.01	0.02	0.6	30.1	29.5	48.1	24.32
07-ARD-287-022	Tuzo	Granite	9.14	0.02	0.01	0.01	0.01	0.3	2.6	2.3	8.7	0.45
07-ARD-288-001	Tuzo	Granite	8.80	0.02	0.02	0.01	0.02	0.6	1.9	1.2	3.0	0.45
07-ARD-288-002	Tuzo	Granite	9.10	0.01	0.01	0.01	0.01	0.3	1.6	1.3	5.4	0.11
07-ARD-288-003	Tuzo	Granite	9.08	0.01	0.01	0.01	0.01	0.3	3.0	2.7	9.9	0.11
07-ARD-288-004	Tuzo	Granite	8.99	0.02	0.01	0.01	0.01	0.3	1.6	1.3	5.4	0.45
07-ARD-288-005	Tuzo	Granite	9.04	0.03	0.01	0.01	0.01	0.3	2.7	2.4	9.1	0.68
07-ARD-288-006	Tuzo	Granite	8.93	0.06	0.02	0.01	0.02	0.6	2.1	1.5	3.4	1.36
07-ARD-288-007	Tuzo	Granite	8.94	0.01	0.01	0.01	0.01	0.3	1.9	1.6	6.3	0.11
07-ARD-288-008	Tuzo	Granite	8.57	0.34	0.01	0.01	0.01	0.3	7.2	6.9	24.0	7.73
07-ARD-288-009	Tuzo	Granite	8.63	0.05	0.02	0.01	0.02	0.6	1.6	1.0	2.6	1.14
07-ARD-288-010	Tuzo	Granite	8.57	0.16	0.09	0.01	0.09	2.8	3.0	0.2	1.1	3.64
07-ARD-288-011	Tuzo	Granite	8.97	0.15	0.01	0.01	0.01	0.3	6.3	6.0	21.1	3.41
07-ARD-289-001	Tuzo	Granite	9.11	0.05	0.01	0.01	0.01	0.3	3.0	2.7	10.0	1.14
07-ARD-289-002	Tuzo	Granite	9.00	0.06	0.05	0.01	0.04	1.3	2.7	1.5	2.2	1.36
07-ARD-289-003	Tuzo	Granite	9.09	0.07	0.02	0.01	0.02	0.6	2.7	2.1	4.4	1.59
07-ARD-289-004	Tuzo	Granite	9.27	0.03	0.01	0.01	0.01	0.3	2.7	2.4	9.1	0.68
07-ARD-289-005	Tuzo	Granite	9.19	0.07	0.01	0.01	0.01	0.3	4.5	4.2	14.9	1.59
07-ARD-289-006	Tuzo	Granite	8.88	0.07	0.01	0.01	0.01	0.3	1.2	0.9	4.1	1.59

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
07-ARD-289-007	Tuzo	Granite	9.06	0.19	0.02	0.01	0.02	0.6	8.5	7.8	13.5	4.32
07-ARD-289-008	Tuzo	Granite	9.15	0.06	0.01	0.01	0.01	0.3	3.4	3.1	11.2	1.36
07-ARD-289-009	Tuzo	Granite	8.98	0.06	0.01	0.01	0.01	0.3	2.0	1.7	6.6	1.36
07-ARD-289-010	Tuzo	Granite	9.05	0.03	0.02	0.01	0.02	0.6	2.2	1.6	3.6	0.68
07-ARD-289-011	Tuzo	Granite	9.08	0.03	0.01	0.01	0.01	0.3	3.5	3.2	11.6	0.68
07-ARD-289-012	Tuzo	Granite	9.10	0.04	0.02	0.01	0.01	0.3	4.2	3.9	13.5	0.91
07-ARD-289-013	Tuzo	Granite	9.03	0.06	0.02	0.01	0.02	0.6	5.2	4.6	8.4	1.36
07-ARD-289-014	Tuzo	Granite	9.19	0.10	0.02	0.01	0.02	0.6	5.3	4.7	8.6	2.27
07-ARD-289-015	Tuzo	Granite	9.14	0.12	0.03	0.01	0.03	0.9	6.8	5.9	7.3	2.73
07-ARD-289-016	Tuzo	Granite	9.18	0.07	0.01	0.01	0.01	0.3	4.5	4.2	14.9	1.59
07-ARD-289-017	Tuzo	Granite	8.99	0.06	0.06	0.01	0.06	1.9	4.5	2.6	2.4	1.36
07-ARD-289-018	Tuzo	Granite	8.92	0.09	0.01	0.01	0.01	0.3	4.7	4.4	15.8	2.05
07-ARD-289-019	Tuzo	Granite	8.97	0.10	0.01	0.01	0.01	0.3	2.7	2.4	9.1	2.27
07-ARD-289-020	Tuzo	Granite	9.17	0.11	0.01	0.01	0.01	0.3	5.2	4.9	17.4	2.50
07-ARD-289-021	Tuzo	Granite	9.11	0.13	0.01	0.01	0.01	0.3	3.0	2.7	10.0	2.95
07-ARD-289-022	Tuzo	Granite	9.25	0.28	0.02	0.01	0.02	0.6	8.2	7.6	13.1	6.36
07-ARD-289-023	Tuzo	Granite	9.26	0.19	0.02	0.01	0.02	0.6	7.7	7.1	12.3	4.32
07-ARD-289-024	Tuzo	Granite	9.22	0.14	0.01	0.01	0.01	0.3	6.5	6.2	21.6	3.18
07-ARD-289-025	Tuzo	Granite	9.33	0.13	0.01	0.01	0.01	0.3	8.0	7.7	26.5	2.95
07-ARD-290-001	Tuzo	Granite	8.45	0.01	0.01	0.01	0.01	0.3	2.7	2.4	9.1	0.11
07-ARD-290-002	Tuzo	Granite	7.79	0.05	0.01	0.01	0.01	0.3	3.7	3.4	12.4	1.14
07-ARD-290-003	Tuzo	Granite	7.92	0.04	0.02	0.01	0.02	0.6	3.9	3.2	6.2	0.91
07-ARD-290-004	Tuzo	Granite	8.58	0.06	0.01	0.01	0.01	0.3	2.2	1.9	7.5	1.36
07-ARD-290-005	Tuzo	Granite	8.77	0.04	0.01	0.01	0.01	0.3	3.9	3.6	12.9	0.91
07-ARD-290-006	Tuzo	Granite	9.00	0.01	0.01	0.01	0.01	0.3	4.0	3.7	13.3	0.11
07-ARD-290-007	Tuzo	Granite	9.07	0.01	0.01	0.01	0.01	0.3	3.0	2.7	10.0	0.11
07-ARD-290-008	Tuzo	Granite	9.05	0.01	0.02	0.01	0.02	0.6	5.0	4.4	8.0	0.11
07-ARD-290-009	Tuzo	Granite	8.71	0.01	0.03	0.01	0.03	0.9	3.2	2.3	3.4	0.11
07-ARD-290-010	Tuzo	Granite	9.30	0.01	0.03	0.01	0.03	0.9	3.4	2.4	3.6	0.23
07-ARD-290-011	Tuzo	Granite	8.92	0.01	0.01	0.01	0.01	0.3	6.3	6.0	21.1	0.11
07-ARD-290-012	Tuzo	Granite	8.60	0.01	0.04	0.01	0.04	1.3	1.9	0.6	1.5	0.11
07-ARD-290-013	Tuzo	Granite	8.43	2.91	0.14	0.01	0.14	4.4	75.7	71.4	17.3	66.14
07-ARD-290-014	Tuzo	Granite	9.27	0.01	0.01	0.01	0.01	0.3	2.6	2.3	8.7	0.11
07-ARD-290-015	Tuzo	Granite	9.01	0.01	0.08	0.01	0.08	2.5	3.6	1.1	1.4	0.11
07-ARD-290-017	Tuzo	Granite	9.05	0.01	0.01	0.01	0.01	0.3	1.6	1.3	5.4	0.11
07-ARD-290-018	Tuzo	Granite	8.82	0.10	0.06	0.01	0.06	1.9	4.9	3.0	2.6	2.27
07-ARD-290-019	Tuzo	Granite	8.99	0.01	0.04	0.01	0.04	1.3	6.0	4.7	4.8	0.23

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
07-ARD-290-020	Tuzo	Granite	8.54	0.02	0.02	0.01	0.02	0.6	6.1	5.5	9.8	0.45
07-ARD-291-001	Tuzo	Granite	8.63	0.01	0.01	0.01	0.01	0.3	2.7	2.4	9.1	0.11
07-ARD-291-002	Tuzo	Granite	8.35	0.01	0.01	0.01	0.01	0.3	4.0	3.7	13.3	0.11
07-ARD-291-003	Tuzo	Granite	8.77	0.01	0.01	0.01	0.01	0.3	3.6	3.3	12.0	0.11
07-ARD-291-004	Tuzo	Granite	8.85	0.06	0.01	0.01	0.01	0.3	7.5	7.2	24.9	1.36
07-ARD-291-005	Tuzo	Granite	8.70	0.07	0.03	0.01	0.03	0.9	6.5	5.5	6.9	1.59
07-ARD-291-006	Tuzo	Granite	8.76	0.08	0.03	0.01	0.03	0.9	7.1	6.2	7.6	1.82
07-ARD-291-007	Tuzo	Granite	8.89	0.14	0.01	0.01	0.01	0.3	9.5	9.2	31.5	3.18
07-ARD-291-008	Tuzo	Granite	9.00	0.01	0.14	0.01	0.13	4.1	5.7	1.7	1.4	0.11
07-ARD-291-009	Tuzo	Granite	8.86	0.10	0.01	0.01	0.01	0.3	5.3	5.0	17.8	2.27
07-ARD-291-010	Tuzo	Granite	8.96	0.08	0.06	0.01	0.06	1.9	6.7	4.8	3.6	1.82
07-ARD-292-001	Tuzo	Granite	8.05	0.01	0.01	0.01	0.01	0.3	2.6	2.3	8.7	0.11
07-ARD-292-002	Tuzo	Granite	8.55	0.01	0.01	0.01	0.01	0.3	1.6	1.3	5.4	0.11
07-ARD-292-003	Tuzo	Granite	8.45	0.01	0.04	0.01	0.04	1.3	2.5	1.2	2.0	0.11
07-ARD-292-004	Tuzo	Granite	8.97	0.01	0.01	0.01	0.01	0.3	3.5	3.2	11.6	0.11
07-ARD-292-005	Tuzo	Granite	8.92	0.01	0.01	0.01	0.01	0.3	4.4	4.1	14.5	0.11
07-ARD-292-006	Tuzo	Granite	8.76	0.01	0.01	0.01	0.01	0.3	0.6	0.3	2.1	0.11
07-ARD-292-007	Tuzo	Granite	8.70	0.01	0.01	0.01	0.01	0.3	3.2	2.9	10.8	0.11
07-ARD-293-001	Tuzo	Granite	8.81	0.01	0.02	0.01	0.02	0.6	4.0	3.4	6.4	0.11
07-ARD-293-002	Tuzo	Granite	8.79	0.01	0.03	0.01	0.03	0.9	1.7	0.8	1.9	0.11
07-ARD-293-003	Tuzo	Granite	8.59	0.01	0.01	0.01	0.01	0.3	2.6	2.3	8.7	0.11
07-ARD-293-004	Tuzo	Granite	8.75	0.01	0.01	0.01	0.01	0.3	0.5	0.2	1.7	0.11
07-ARD-293-005	Tuzo	Granite	8.61	0.01	0.04	0.01	0.04	1.3	2.5	1.2	2.0	0.11
07-ARD-293-006	Tuzo	Granite	8.79	0.15	0.03	0.01	0.03	0.9	5.5	4.5	5.8	3.41
07-ARD-293-007	Tuzo	Granite	8.96	0.01	0.02	0.01	0.02	0.6	3.5	2.9	5.6	0.11
07-ARD-293-008	Tuzo	Granite	8.77	0.01	0.01	0.01	0.01	0.3	2.1	1.8	7.0	0.11
07-ARD-293-009	Tuzo	Granite	8.99	0.06	0.01	0.01	0.01	0.3	3.5	3.2	11.6	1.36
07-ARD-293-010	Tuzo	Granite	8.90	0.04	0.04	0.01	0.04	1.3	4.5	3.2	3.6	0.91
07-ARD-293-011	Tuzo	Granite	9.20	0.08	0.01	0.01	0.01	0.3	4.1	3.8	13.7	1.82
07-ARD-293-012	Tuzo	Granite	9.19	0.07	0.01	0.01	0.01	0.3	4.2	3.9	14.1	1.59
07-ARD-293-013	Tuzo	Granite	9.08	0.01	0.04	0.01	0.04	1.3	3.6	2.4	2.9	0.23
07-ARD-293-014	Tuzo	Granite	9.34	0.10	0.06	0.01	0.06	1.9	4.5	2.6	2.4	2.27
07-ARD-293-015	Tuzo	Granite	9.21	0.20	0.15	0.01	0.15	4.7	6.3	1.7	1.4	4.55
07-ARD-293-016	Tuzo	Granite	9.20	0.12	0.16	0.01	0.16	5.0	4.7	-0.3	0.9	2.73
07-ARD-293-017	Tuzo	Granite	9.11	0.01	0.04	0.01	0.04	1.3	3.1	1.9	2.5	0.11
07-ARD-295-001	Tuzo	Granite	9.00	0.01	0.02	0.01	0.02	0.6	1.5	0.9	2.4	0.11
07-ARD-295-002	Tuzo	Granite	8.70	0.04	0.01	0.01	0.01	0.3	3.7	3.4	12.4	0.91

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
07-ARD-295-003	Tuzo	Granite	7.72	0.26	0.04	0.01	0.04	1.3	6.6	5.3	5.3	5.91
07-ARD-295-004	Tuzo	Granite	9.15	0.04	0.01	0.01	0.01	0.3	4.0	3.7	13.3	0.91
07-ARD-297-001	Tuzo	Granite	9.03	0.01	0.01	0.01	0.01	0.3	4.7	4.4	15.8	0.23
07-ARD-299-001	Tuzo	Granite	8.88	0.01	0.02	0.01	0.02	0.6	3.9	3.2	6.2	0.11
07-ARD-299-002	Tuzo	Granite	8.78	0.01	0.02	0.01	0.02	0.6	2.7	2.1	4.4	0.11
07-ARD-299-003	Tuzo	Granite	9.16	0.05	0.04	0.01	0.04	1.3	5.0	3.7	4.0	1.14
07-ARD-307-001	Tuzo	Granite	9.44	0.10	0.01	0.01	0.01	0.3	3.3	3.0	11.1	2.27
07-ARD-307-002	Tuzo	Granite	9.20	0.15	0.01	0.01	0.01	0.3	3.6	3.3	12.0	3.41
07-ARD-307-003	Tuzo	Granite	9.25	0.15	0.01	0.01	0.01	0.3	6.9	6.6	23.1	3.41
07-ARD-307-004	Tuzo	Granite	9.55	0.14	0.01	0.01	0.01	0.3	5.2	4.9	17.3	3.18
07-ARD-307-005	Tuzo	Granite	9.23	0.20	0.02	0.01	0.01	0.3	8.4	8.1	26.9	4.55
07-ARD-307-006	Tuzo	Granite	9.34	0.18	0.01	0.01	0.01	0.3	6.2	5.9	20.6	4.09
07-ARD-307-007	Tuzo	Granite	9.34	0.17	0.02	0.01	0.01	0.3	7.1	6.7	22.6	3.86
07-ARD-307-008	Tuzo	Granite	9.38	0.18	0.01	0.01	0.01	0.3	7.7	7.4	25.6	4.09
07-ARD-307-009	Tuzo	Granite	9.58	0.14	0.01	0.01	0.01	0.3	7.9	7.6	26.4	3.18
07-ARD-307-010	Tuzo	Granite	9.00	0.27	0.09	0.01	0.09	2.8	7.0	4.2	2.5	6.14
07-ARD-307-011	Tuzo	Granite	8.61	0.02	0.02	0.02	0.01	0.2	1.6	1.4	10.3	0.45
07-ARD-307-012	Tuzo	Granite	9.38	0.23	0.01	0.01	0.01	0.3	5.8	5.5	19.3	5.23
07-ARD-307-013	Tuzo	Granite	9.36	0.17	0.01	0.01	0.01	0.3	4.3	4.0	14.4	3.86
07-ARD-307-015	Tuzo	Granite	9.47	0.15	0.01	0.01	0.01	0.3	2.8	2.5	9.5	3.41
07-ARD-307-016	Tuzo	Granite	9.48	0.07	0.06	0.01	0.05	1.6	0.6	-0.9	0.4	1.59
07-ARD-307-017	Tuzo	Granite	8.44	6.05	0.23	0.01	0.22	6.9	123.0	116.1	17.9	137.50
07-ARD-307-018	Tuzo	Granite	9.17	0.06	0.04	0.01	0.04	1.3	1.0	-0.3	0.8	1.36
07-ARD-308-001	Tuzo	Granite	9.25	0.10	0.02	0.01	0.01	0.3	7.2	6.8	22.9	2.27
07-ARD-308-002	Tuzo	Granite	9.23	0.03	0.02	0.01	0.02	0.6	3.3	2.7	5.3	0.68
07-ARD-308-003	Tuzo	Granite	9.29	0.10	0.02	0.01	0.02	0.6	2.3	1.7	3.8	2.27
07-ARD-308-004	Tuzo	Granite	9.29	0.04	0.02	0.01	0.01	0.3	2.6	2.3	8.3	0.91
07-ARD-308-005	Tuzo	Granite	9.39	0.15	0.01	0.01	0.01	0.3	6.0	5.7	20.2	3.41
07-ARD-308-006	Tuzo	Granite	9.27	0.11	0.01	0.01	0.01	0.3	5.2	4.9	17.3	2.50
07-ARD-308-007	Tuzo	Granite	9.38	0.01	0.02	0.01	0.01	0.3	4.7	4.4	15.0	0.11
07-ARD-308-008	Tuzo	Granite	9.46	0.10	0.02	0.01	0.01	0.3	5.7	5.4	18.2	2.27
07-ARD-308-009	Tuzo	Granite	9.24	0.11	0.04	0.01	0.04	1.3	7.9	6.7	6.3	2.50
07-ARD-308-010	Tuzo	Granite	9.52	0.05	0.02	0.01	0.01	0.3	1.9	1.5	5.9	1.14
07-ARD-308-011	Tuzo	Granite	9.59	0.01	0.04	0.01	0.03	0.9	4.2	3.3	4.5	0.11
07-ARD-308-012	Tuzo	Granite	9.49	0.04	0.01	0.01	0.01	0.3	3.2	2.9	10.7	0.91
07-ARD-308-013	Tuzo	Granite	9.52	0.04	0.02	0.01	0.01	0.3	4.1	3.8	13.0	0.91
07-ARD-308-014	Tuzo	Granite	9.45	0.03	0.01	0.01	0.01	0.3	4.6	4.3	15.2	0.68

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
07-ARD-308-015	Tuzo	Granite	9.26	0.07	0.03	0.01	0.03	0.9	4.6	3.6	4.9	1.59
07-ARD-308-016	Tuzo	Granite	9.29	0.16	0.03	0.01	0.03	0.9	6.4	5.5	6.8	3.64
07-ARD-308-017	Tuzo	Granite	9.32	0.18	0.03	0.01	0.03	0.9	6.0	5.1	6.5	4.09
07-ARD-308-018	Tuzo	Granite	9.31	0.15	0.09	0.01	0.09	2.8	6.3	3.5	2.2	3.41
07-ARD-308-019	Tuzo	Granite	9.45	0.09	0.01	0.01	0.01	0.3	7.0	6.7	23.5	2.05
07-ARD-308-020	Tuzo	Granite	9.35	0.21	0.01	0.01	0.01	0.3	8.5	8.2	28.4	4.77
07-ARD-308-021	Tuzo	Granite	9.22	0.10	0.02	0.01	0.01	0.3	4.4	4.1	14.2	2.27
07-ARD-308-022	Tuzo	Granite	9.53	0.09	0.03	0.01	0.02	0.6	4.8	4.2	7.7	2.05
07-ARD-308-023	Tuzo	Granite	9.45	0.06	0.03	0.01	0.03	0.9	7.4	6.5	7.9	1.36
07-ARD-308-024	Tuzo	Granite	9.42	0.11	0.01	0.01	0.01	0.3	6.8	6.5	22.6	2.50
07-ARD-308-025	Tuzo	Granite	9.48	0.12	0.01	0.01	0.01	0.3	6.3	6.0	21.0	2.73
07-ARD-309-001	Tuzo	Granite	9.28	0.09	0.03	0.01	0.03	0.9	2.8	1.9	3.0	2.05
07-ARD-309-002	Tuzo	Granite	9.17	0.09	0.01	0.01	0.01	0.3	4.2	3.9	14.0	2.05
07-ARD-309-003	Tuzo	Granite	9.34	0.07	0.01	0.01	0.01	0.3	4.3	4.0	14.4	1.59
07-ARD-309-004	Tuzo	Granite	9.10	0.03	0.01	0.01	0.01	0.3	2.1	1.8	7.0	0.68
07-ARD-309-005	Tuzo	Granite	9.21	0.04	0.01	0.01	0.01	0.3	1.9	1.6	6.2	0.91
07-ARD-309-006	Tuzo	Granite	9.27	0.03	0.03	0.01	0.02	0.6	4.2	3.6	6.7	0.68
07-ARD-309-007	Tuzo	Granite	9.32	0.05	0.01	0.01	0.01	0.3	3.8	3.5	12.8	1.14
07-ARD-309-008	Tuzo	Granite	9.28	0.09	0.01	0.01	0.01	0.3	5.9	5.6	19.8	2.05
07-ARD-309-009	Tuzo	Granite	9.04	0.20	0.01	0.01	0.01	0.3	7.2	6.9	23.9	4.55
07-ARD-309-010	Tuzo	Granite	9.29	0.07	0.01	0.01	0.01	0.3	3.7	3.4	12.3	1.59
07-ARD-309-011	Tuzo	Granite	9.29	0.11	0.02	0.01	0.02	0.6	4.3	3.7	6.9	2.50
07-ARD-309-012	Tuzo	Granite	9.29	0.18	0.02	0.01	0.02	0.6	8.6	8.0	13.8	4.09
07-ARD-309-013	Tuzo	Granite	9.19	0.12	0.08	0.01	0.07	2.2	3.8	1.6	1.7	2.73
07-ARD-300-001	Tuzo	Granite	9.43	0.15	0.02	0.01	0.02	0.6	3.6	3.0	5.7	3.41
07-ARD-300-002	Tuzo	Granite	9.49	0.06	0.02	0.01	0.02	0.6	2.2	1.6	3.6	1.36
07-ARD-300-003	Tuzo	Granite	9.48	0.01	0.01	0.01	0.01	0.3	1.1	1.1	3.7	0.11
07-ARD-300-004	Tuzo	Granite	9.16	0.26	0.03	0.01	0.03	0.9	6.3	5.4	6.7	5.91
07-ARD-300-005	Tuzo	Granite	9.45	0.01	0.02	0.01	0.02	0.6	2.2	1.6	3.6	0.11
07-ARD-300-006	Tuzo	Granite	9.21	0.03	0.02	0.01	0.02	0.6	3.1	2.5	5.0	0.68
07-ARD-300-007	Tuzo	Granite	9.20	0.01	0.01	0.01	0.01	0.3	0.7	0.7	2.5	0.11
07-ARD-300-008	Tuzo	Granite	9.26	0.04	0.01	0.01	0.01	0.3	2.0	2.0	6.6	0.91
07-ARD-300-009	Tuzo	Granite	9.21	0.08	0.03	0.01	0.03	0.9	3.5	2.5	3.7	1.82
07-ARD-300-010	Tuzo	Granite	9.35	0.07	0.01	0.01	0.01	0.3	4.0	4.0	13.2	1.59
07-ARD-300-011	Tuzo	Granite	9.39	0.27	0.02	0.01	0.02	0.6	6.4	5.8	10.3	6.14
07-ARD-300-012	Tuzo	Granite	9.41	0.18	0.02	0.01	0.02	0.6	6.8	6.2	10.9	4.09
07-ARD-300-013	Tuzo	Granite	9.53	0.26	0.02	0.01	0.02	0.6	10.3	9.6	16.4	5.91

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
07-ARD-300-014	Tuzo	Granite	9.62	0.08	0.03	0.01	0.03	0.9	2.7	1.8	2.9	1.82
07-ARD-300-015	Tuzo	Granite	9.66	0.06	0.01	0.01	0.01	0.3	4.0	4.0	13.2	1.36
07-ARD-300-016	Tuzo	Granite	9.75	0.14	0.02	0.01	0.02	0.6	4.5	3.8	7.1	3.18
07-ARD-304-001	Tuzo	Granite	9.40	0.01	0.02	0.01	0.02	0.6	2.6	2.0	4.2	0.11
07-ARD-304-002	Tuzo	Granite	9.38	0.02	0.02	0.01	0.02	0.6	3.0	2.3	4.8	0.45
07-ARD-304-003	Tuzo	Granite	9.43	0.11	0.02	0.01	0.02	0.6	2.7	2.1	4.4	2.50
07-ARD-304-004	Tuzo	Granite	9.67	0.01	0.01	0.01	0.01	0.3	2.0	2.0	6.6	0.23
07-ARD-304-005	Tuzo	Granite	9.47	0.01	0.02	0.01	0.01	0.3	2.2	1.9	7.1	0.11
07-ARD-304-006	Tuzo	Granite	9.61	0.03	0.03	0.01	0.03	0.9	3.6	2.7	3.8	0.68
07-ARD-304-007	Tuzo	Granite	9.41	0.04	0.02	0.01	0.02	0.6	4.6	4.0	7.3	0.91
07-ARD-304-008	Tuzo	Granite	9.46	0.01	0.03	0.01	0.03	0.9	2.5	1.5	2.6	0.11
07-ARD-304-009	Tuzo	Granite	9.51	0.02	0.01	0.01	0.01	0.3	4.5	4.5	14.9	0.45
07-ARD-304-010	Tuzo	Granite	9.49	0.01	0.02	0.01	0.01	0.3	2.7	2.4	8.7	0.23
07-ARD-304-011	Tuzo	Granite	9.34	0.01	0.01	0.01	0.01	0.3	4.3	4.3	14.4	0.11
07-ARD-304-012	Tuzo	Granite	9.29	0.01	0.04	0.01	0.04	1.3	5.7	4.4	4.6	0.11
07-ARD-306-001	Tuzo	Granite	9.27	0.01	0.01	0.01	0.01	0.3	4.6	4.6	15.3	0.11
07-ARD-306-002	Tuzo	Granite	9.41	0.01	0.05	0.01	0.05	1.6	4.0	2.4	2.5	0.11
07-ARD-306-003	Tuzo	Granite	9.26	0.01	0.04	0.01	0.04	1.3	2.0	0.7	1.6	0.11
07-ARD-306-004	Tuzo	Granite	9.37	0.01	0.01	0.01	0.01	0.3	3.2	3.2	10.7	0.11
07-ARD-306-005	Tuzo	Granite	9.68	0.05	0.03	0.01	0.03	0.9	5.7	4.8	6.1	1.14
07-ARD-306-006	Tuzo	Granite	9.51	0.07	0.04	0.01	0.04	1.3	5.0	3.7	4.0	1.59
07-ARD-306-007	Tuzo	Granite	9.49	0.01	0.01	0.01	0.01	0.3	5.1	5.1	16.9	0.11
07-ARD-306-008	Tuzo	Granite	9.59	0.06	0.02	0.01	0.02	0.6	4.0	3.3	6.3	1.36
07-ARD-306-009	Tuzo	Granite	9.43	0.11	0.01	0.01	0.01	0.3	3.5	3.5	11.6	2.50
07-ARD-306-010	Tuzo	Granite	9.45	0.08	0.01	0.01	0.01	0.3	3.0	3.0	9.9	1.82
04-ARD-120-011	Hearne	Granodiorite	9.07	0.26	0.03	0.01	0.03	0.9	8.0	7.1	8.5	5.91
22949	---	Granodiorite	9.70	0.10	0.01	0.01	0.02	0.3	11.0	10.7	36.7	2.27
22950	---	Granodiorite	9.40	0.30	0.01	0.01	0.03	0.6	9.0	8.4	15.0	6.82
22951	---	Granodiorite	9.00	0.20	0.31	0.02	0.32	9.7	10.0	0.3	1.0	4.55
22952	---	Granodiorite	9.50	0.30	0.01	0.02	0.01	0.3	9.0	8.7	30.0	6.82
22953	---	Granodiorite	9.70	0.10	0.01	0.01	0.02	0.3	9.0	8.7	30.0	2.27
22949	96-BAK009	Granodiorite (fresh)	9.70	0.10	0.01	0.01	0.02	0.3	11.0	11.0	36.7	2.27
22950	96-BAK009	Granodiorite (fresh)	9.40	0.30	0.01	0.01	0.03	0.6	9.0	8.0	15.0	6.82
22951	96-BAK009	Granodiorite (fresh)	9.00	0.20	0.31	0.02	0.32	9.7	10.0	---	1.0	4.55
22952	96-BAK009	Granodiorite (fresh)	9.50	0.30	0.01	0.02	0.01	0.3	9.0	9.0	30.0	6.82
22953	96-BAK009	Granodiorite (fresh)	9.70	0.10	0.01	0.01	0.02	0.3	9.0	9.0	30.0	2.27
100301	5034	Granodiorite (altered)	8.60	0.02	0.10	0.01	0.10	3.1	12.3	9.2	4.0	0.45

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
100302	5034	Granodiorite (altered)	8.90	0.01	0.17	0.01	0.17	5.3	13.3	8.0	2.5	0.23
100312	Hearne	Granodiorite (altered)	8.40	2.81	0.13	0.01	0.13	4.1	114.9	110.8	28.0	63.86
100301	MPV 02-076C	Granodiorite (altered)	8.60	0.02	0.10	0.01	0.10	3.1	12.3	9.2	4.0	0.45
100302	MPV 02-076C	Granodiorite (altered)	8.90	0.01	0.17	0.01	0.17	5.3	13.3	8.0	2.5	0.23
100312	MPV 02-085C	Granodiorite (altered)	8.40	2.81	0.13	0.01	0.13	4.1	114.9	110.8	28.0	63.86
22947	---	Granodiorite (altered)	8.90	0.10	0.11	0.11	0.01	3.4	37.0	33.6	10.9	2.27
22948	---	Granodiorite (altered)	8.80	0.10	0.31	0.02	0.30	9.7	8.0	-1.7	0.8	2.27
22954	---	Granodiorite (altered)	9.00	0.10	0.16	0.17	0.01	5.0	38.0	33.0	7.6	2.27
22955	---	Granodiorite (altered)	9.00	0.10	0.16	0.17	0.01	5.0	272.0	267.0	54.4	2.27
22956	---	Granodiorite (altered)	8.90	4.50	0.24	0.02	0.19	7.5	117.0	109.5	15.6	102.27
22947	96-BAK009	Granodiorite (altered)	8.90	0.10	0.11	0.11	0.01	3.4	37.0	34.0	10.9	2.27
22948	96-BAK009	Granodiorite (altered)	8.80	0.10	0.31	0.02	0.30	9.7	8.0	-2.0	0.8	2.27
22954	96-BAK009	Granodiorite (altered)	9.00	0.10	0.16	0.17	0.01	5.0	38.0	33.0	7.6	2.27
22955	96-BAK009	Granodiorite (altered)	9.00	0.10	0.16	0.17	0.01	5.0	272.0	267.0	54.4	2.27
22956	96-BAK009	Granodiorite (altered)	8.90	4.50	0.24	0.02	0.19	7.5	117.0	110.0	15.6	102.27
100307	5034	Hypabyssal kimberlite	8.50	2.07	0.12	0.03	0.09	2.80	420.5	417.7	150.2	47.05
100307	MPV 02-079C	Hypabyssal kimberlite	8.50	2.07	0.12	0.03	0.09	2.80	420.5	417.7	150.2	47.05
04-ARD-137-001	5034	Hypabyssal Kimberlite	8.28	0.12	0.03	0.01	0.03	0.94	49.8	48.9	53.1	2.73
04-ARD-137-002	5034	Hypabyssal Kimberlite	8.48	0.34	0.03	0.01	0.03	0.94	75.4	74.4	80.4	7.73
04-ARD-137-003	5034	Hypabyssal Kimberlite	8.45	0.08	0.02	0.01	0.02	0.63	41.5	40.9	66.4	1.82
04-ARD-137-004	5034	Hypabyssal Kimberlite	8.57	0.13	0.04	0.01	0.03	0.94	97.8	96.9	104.3	2.95
04-ARD-137-005	5034	Hypabyssal Kimberlite	8.54	0.08	0.01	0.01	0.01	0.30	49.8	49.5	166.0	1.82
04-ARD-137-006	5034	Hypabyssal Kimberlite	8.60	0.09	0.02	0.01	0.01	0.44	97.8	97.4	223.6	2.05
04-ARD-137-007	5034	Hypabyssal Kimberlite	8.68	0.04	0.01	0.01	0.01	0.30	54.3	54.0	181.0	0.91
04-ARD-137-008	5034	Hypabyssal Kimberlite	8.88	0.20	0.02	0.01	0.02	0.63	145.1	144.4	232.1	4.55
04-ARD-137-009	5034	Hypabyssal Kimberlite	10.04	0.13	0.01	0.01	0.01	0.30	54.8	54.5	182.7	2.95
04-ARD-137-011	5034	Hypabyssal Kimberlite	10.28	0.11	0.01	0.01	0.01	0.30	64.9	64.6	216.3	2.50
04-ARD-137-013	5034	Hypabyssal Kimberlite	10.14	0.08	0.01	0.01	0.01	0.30	60.8	60.5	202.7	1.82
04-ARD-137-014	5034	Hypabyssal Kimberlite	9.85	0.26	0.03	0.01	0.02	0.60	158.0	157.4	261.5	5.91
04-ARD-137-015	5034	Hypabyssal Kimberlite	10.44	0.15	0.01	0.01	0.01	0.30	133.2	132.9	444.0	3.41
04-ARD-137-016	5034	Hypabyssal Kimberlite	10.13	0.44	0.02	0.01	0.02	0.63	174.1	173.5	278.6	10.00
04-ARD-137-017	5034	Hypabyssal Kimberlite	10.28	0.93	0.02	0.01	0.02	0.63	170.3	169.7	272.5	21.14
04-ARD-137-018	5034	Hypabyssal Kimberlite	9.71	0.39	0.02	0.01	0.01	0.31	155.5	155.2	497.5	8.86
04-ARD-149-014	5034	Hypabyssal Kimberlite	8.37	0.38	0.21	0.08	0.13	4.00	184.3	180.3	46.1	8.64
04-ARD-149-015	5034	Hypabyssal Kimberlite	8.22	0.40	0.04	0.02	0.02	0.63	99.1	98.5	158.6	9.09
04-ARD-149-029	5034	Hypabyssal Kimberlite	8.02	8.54	0.15	0.01	0.14	4.23	224.1	219.9	53.0	194.09
04-ARD-149-031	5034	Hypabyssal Kimberlite	8.00	3.49	0.03	0.01	0.02	0.48	151.4	150.9	316.0	79.32

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-149-032	5034	Hypabyssal Kimberlite	8.24	1.42	0.05	0.01	0.05	1.56	99.1	97.5	63.4	32.27
04-ARD-149-033	5034	Hypabyssal Kimberlite	8.18	0.36	0.04	0.01	0.03	0.98	94.0	93.0	96.0	8.18
04-ARD-149-034	5034	Hypabyssal Kimberlite	8.28	0.17	0.03	0.01	0.03	0.94	86.4	85.4	92.1	3.86
04-ARD-149-035	5034	Hypabyssal Kimberlite	8.27	0.34	0.06	0.01	0.05	1.71	108.6	106.9	63.6	7.73
04-ARD-149-036	5034	Hypabyssal Kimberlite	8.38	3.44	0.05	0.01	0.04	1.27	152.7	151.4	120.2	78.18
04-ARD-149-037	5034	Hypabyssal Kimberlite	8.32	0.32	0.01	0.01	0.01	0.30	98.7	98.4	328.8	7.27
04-ARD-168-035	5034	Hypabyssal Kimberlite	8.65	2.67	0.06	0.02	0.04	1.25	135.1	133.9	108.1	60.68
04-ARD-168-036	5034	Hypabyssal Kimberlite	9.49	0.31	0.02	0.02	0.01	0.16	180.0	179.9	1152.1	7.05
04-ARD-168-037	5034	Hypabyssal Kimberlite	9.60	0.36	0.04	0.01	0.04	1.25	115.5	114.3	92.4	8.18
04-ARD-168-038	5034	Hypabyssal Kimberlite	9.42	0.18	0.03	0.02	0.01	0.31	182.6	182.2	584.2	4.09
04-ARD-168-039	5034	Hypabyssal Kimberlite	9.90	0.32	0.03	0.01	0.03	0.94	164.8	163.9	175.8	7.27
04-ARD-168-040	5034	Hypabyssal Kimberlite	9.75	0.19	0.03	0.02	0.01	0.46	246.1	245.6	537.0	4.32
100305	Hearne	Hypabyssal kimberlite	9.50	0.91	0.03	0.02	0.01	0.30	405.3	405.0	1351.0	20.68
100310	Hearne	Hypabyssal kimberlite	8.30	1.20	0.11	0.05	0.06	1.90	417.9	416.0	219.9	27.27
100305	MPV 02-080C	Hypabyssal kimberlite	9.50	0.91	0.03	0.02	0.01	0.30	405.3	405.0	1351.0	20.68
100310	MPV 02-085C	Hypabyssal kimberlite	8.30	1.20	0.11	0.05	0.06	1.90	417.9	416.0	219.9	27.27
04-ARD-159-001	Hearne	Hypabyssal Kimberlite	8.48	0.26	0.02	0.01	0.01	0.42	138.9	138.5	333.4	5.91
04-ARD-159-002	Hearne	Hypabyssal Kimberlite	9.07	0.22	0.05	0.01	0.04	1.25	113.8	112.6	91.0	5.00
04-ARD-159-003	Hearne	Hypabyssal Kimberlite	8.96	1.06	0.02	0.01	0.01	0.44	136.2	135.7	311.2	24.09
04-ARD-159-004	Hearne	Hypabyssal Kimberlite	8.76	2.84	0.04	0.02	0.02	0.63	92.0	91.4	147.2	64.55
04-ARD-164-001	Hearne	Hypabyssal Kimberlite	8.45	0.08	0.01	0.01	0.01	0.30	37.0	36.7	123.3	1.82
04-ARD-164-002	Hearne	Hypabyssal Kimberlite	8.34	0.16	0.01	0.01	0.01	0.30	117.5	117.2	391.7	3.64
04-ARD-164-003	Hearne	Hypabyssal Kimberlite	8.67	0.04	0.01	0.01	0.01	0.30	51.8	51.5	172.7	0.91
04-ARD-164-004	Hearne	Hypabyssal Kimberlite	8.63	0.10	0.02	0.01	0.01	0.42	104.8	104.4	251.5	2.27
04-ARD-164-014	Hearne	Hypabyssal Kimberlite	9.77	0.96	0.04	0.03	0.01	0.40	269.8	269.4	681.7	21.82
04-ARD-164-015	Hearne	Hypabyssal Kimberlite	10.08	0.52	0.02	0.01	0.01	0.31	95.4	95.1	305.3	11.82
04-ARD-164-016	Hearne	Hypabyssal Kimberlite	9.63	0.85	0.02	0.01	0.01	0.40	282.6	282.2	713.8	19.32
04-ARD-164-017	Hearne	Hypabyssal Kimberlite	10.03	0.34	0.02	0.01	0.01	0.31	169.5	169.2	542.4	7.73
04-ARD-164-017	Hearne	Hypabyssal Kimberlite	9.56	0.39	0.02	0.01	0.01	0.42	247.4	247.0	593.7	8.86
04-ARD-164-018	Hearne	Hypabyssal Kimberlite	9.71	0.81	0.02	0.02	0.01	0.16	282.6	282.4	1808.4	18.41
04-ARD-164-019	Hearne	Hypabyssal Kimberlite	9.94	0.40	0.02	0.01	0.01	0.31	169.5	169.2	542.4	9.09
04-ARD-164-020	Hearne	Hypabyssal Kimberlite	9.21	0.62	0.02	0.01	0.01	0.17	246.1	245.9	1476.6	14.09
04-ARD-164-021	Hearne	Hypabyssal Kimberlite	9.43	0.37	0.02	0.01	0.01	0.31	170.0	169.7	544.0	8.41
04-ARD-164-022	Hearne	Hypabyssal Kimberlite	8.75	0.63	0.02	0.01	0.01	0.40	217.7	217.3	550.1	14.32
04-ARD-164-023	Hearne	Hypabyssal Kimberlite	8.51	0.38	0.03	0.01	0.03	0.94	182.0	181.1	194.1	8.64
04-ARD-171-004	Hearne	Hypabyssal Kimberlite	8.78	0.14	0.04	0.01	0.03	1.02	137.6	136.6	134.8	3.18
04-ARD-171-005	Hearne	Hypabyssal Kimberlite	8.79	0.05	0.02	0.01	0.02	0.63	58.6	58.0	93.8	1.14

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-171-006	Hearne	Hypabyssal Kimberlite	9.26	0.12	0.01	0.01	0.01	0.30	146.1	145.8	487.0	2.73
04-ARD-171-007	Hearne	Hypabyssal Kimberlite	8.67	0.39	0.15	0.01	0.14	4.38	60.8	56.4	13.9	8.86
100308	MPV 02-079C	Hypabyssal kimberlite w/ granite inclusion	9.70	0.19	0.05	0.01	0.04	1.30	276.8	275.6	212.9	4.32
100311	MPV 02-085C	Hypabyssal kimberlite w/ granite inclusion	9.70	0.66	0.03	0.01	0.03	0.90	387.8	386.9	430.9	15.00
04-ARD-164-008	Hearne	Hypabyssal Kimberlite Transitional Zone	9.56	0.12	0.02	0.01	0.01	0.38	108.6	108.2	289.6	2.73
04-ARD-164-009	Hearne	Hypabyssal Kimberlite Transitional Zone	9.77	0.12	0.01	0.01	0.01	0.30	66.3	66.0	221.0	2.73
04-ARD-164-010	Hearne	Hypabyssal Kimberlite Transitional Zone	9.03	1.93	0.02	0.01	0.01	*0.33*	258.8	258.5	776.5	43.86
04-ARD-164-011	Hearne	Hypabyssal Kimberlite Transitional Zone	10.08	0.28	0.01	0.01	0.01	0.30	99.0	98.7	330.0	6.36
04-ARD-164-012	Hearne	Hypabyssal Kimberlite Transitional Zone	9.60	0.75	0.06	0.06	0.01	0.16	248.7	248.5	1591.4	17.05
04-ARD-164-013	Hearne	Hypabyssal Kimberlite Transitional Zone	10.40	0.50	0.02	0.02	0.01	0.10	171.2	171.1	1712.0	11.36
04-ARD-171-001	Hearne	Hypabyssal Kimberlite Transitional Zone	8.28	0.58	0.02	0.01	0.02	0.63	59.1	58.5	94.6	13.18
04-ARD-171-002	Hearne	Hypabyssal Kimberlite Transitional Zone	8.68	0.12	0.01	0.01	0.01	0.30	78.7	78.4	262.5	2.73
04-ARD-171-003	Hearne	Hypabyssal Kimberlite Transitional Zone	8.45	0.18	0.03	0.01	0.03	0.94	39.1	38.2	41.7	4.09
100309	5034	Kimberlite	8.40	4.96	0.13	0.01	0.13	4.10	130.1	126.0	31.7	112.73
100309	MPV 02-079C	Transitional kimberlite	8.40	4.96	0.13	0.01	0.13	4.10	130.1	126.0	31.7	112.73
04-ARD-122-001	5034	Kimberlite	8.27	0.69	0.03	0.01	0.02	0.63	59.5	58.9	95.2	15.68
04-ARD-122-002	5034	Kimberlite	8.35	0.40	0.02	0.01	0.02	0.63	52.8	52.2	84.5	9.09
04-ARD-122-003	5034	Kimberlite	8.28	0.19	0.04	0.01	0.04	1.25	74.1	72.9	59.3	4.32
04-ARD-122-004	5034	Kimberlite	8.65	0.05	0.02	0.01	0.02	0.63	44.3	43.7	70.9	1.14
04-ARD-122-005	5034	Kimberlite	8.47	0.15	0.01	0.01	0.01	0.30	83.7	83.4	279.1	3.41
04-ARD-122-006	5034	Kimberlite	8.88	0.16	0.06	0.01	0.06	1.88	56.8	54.9	30.3	3.64
04-ARD-122-007	5034	Kimberlite	8.83	0.37	0.04	0.01	0.03	0.96	76.4	75.4	79.7	8.41
04-ARD-122-008	5034	Kimberlite	8.95	0.03	0.02	0.01	0.02	0.63	77.5	76.9	124.0	0.68
04-ARD-122-009	5034	Kimberlite	8.42	0.47	0.07	0.01	0.07	2.19	101.0	98.8	46.2	10.68
04-ARD-122-010	5034	Kimberlite	8.58	0.01	0.02	0.01	0.02	0.63	50.6	50.0	81.0	0.11
04-ARD-122-011	5034	Kimberlite	8.55	0.62	0.04	0.01	0.03	1.00	69.0	68.0	69.0	14.09
04-ARD-122-012	5034	Kimberlite	8.55	0.01	0.01	0.01	0.01	0.30	51.1	50.8	170.3	0.11
04-ARD-122-013	5034	Kimberlite	8.48	0.13	0.02	0.01	0.02	0.63	76.9	76.3	123.0	2.95
04-ARD-122-014	5034	Kimberlite	8.82	0.12	0.01	0.01	0.01	0.30	59.9	59.6	199.7	2.73
04-ARD-122-015	5034	Kimberlite	8.71	0.14	0.01	0.01	0.01	0.30	67.1	66.8	223.5	3.18
04-ARD-122-016	5034	Kimberlite	10.12	0.12	0.03	0.01	0.03	0.94	76.9	76.0	82.0	2.73
04-ARD-122-017	5034	Kimberlite	9.86	0.68	0.01	0.01	0.01	0.30	125.2	124.9	417.2	15.45
04-ARD-122-018	5034	Kimberlite	10.62	0.13	0.03	0.01	0.03	0.94	161.1	160.2	171.8	2.95
04-ARD-122-019	5034	Kimberlite	9.43	0.95	0.03	0.01	0.02	0.77	112.2	111.4	145.5	21.59
04-ARD-122-020	5034	Kimberlite	10.09	0.64	0.03	0.01	0.03	0.94	76.6	75.7	81.7	14.55
04-ARD-122-021	5034	Kimberlite	8.50	4.41	0.08	0.01	0.08	2.50	107.0	104.5	42.8	100.23
04-ARD-124-001	5034	Kimberlite	8.52	0.51	0.05	0.01	0.05	1.56	84.5	82.9	54.1	11.59

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-124-002	5034	Kimberlite	8.27	0.10	0.01	0.01	0.01	0.30	71.1	70.8	237.0	2.27
04-ARD-124-003	5034	Kimberlite	8.66	0.13	0.01	0.01	0.01	0.30	47.8	47.5	159.3	2.95
04-ARD-124-004	5034	Kimberlite	8.45	0.08	0.01	0.01	0.01	0.30	63.8	63.5	212.7	1.82
04-ARD-124-005	5034	Kimberlite	8.76	0.10	0.01	0.01	0.01	0.30	70.5	70.2	235.0	2.27
04-ARD-124-006	5034	Kimberlite	8.54	0.19	0.01	0.01	0.01	0.30	69.8	69.5	232.8	4.32
04-ARD-124-007	5034	Kimberlite	8.40	0.15	0.03	0.01	0.03	0.94	57.5	56.6	61.3	3.41
04-ARD-124-008	5034	Kimberlite	8.27	0.25	0.01	0.01	0.01	0.30	60.7	60.4	202.4	5.68
04-ARD-126-001	5034	Kimberlite	8.72	0.25	0.03	0.01	0.03	0.94	134.0	133.1	142.9	5.68
04-ARD-126-003	5034	Kimberlite	9.95	0.63	0.02	0.01	0.02	0.63	64.1	63.5	102.6	14.32
04-ARD-126-005	5034	Kimberlite	10.08	0.15	0.03	0.01	0.03	0.94	93.8	92.9	100.1	3.41
04-ARD-126-007	5034	Kimberlite	10.45	0.11	0.02	0.01	0.02	0.63	130.2	129.6	208.3	2.50
04-ARD-126-008	5034	Kimberlite	10.16	0.50	0.03	0.01	0.03	0.94	119.4	118.4	127.3	11.36
04-ARD-126-009	5034	Kimberlite	10.48	0.13	0.02	0.01	0.02	0.63	177.0	176.4	283.2	2.95
04-ARD-126-010	5034	Kimberlite	9.44	0.34	0.03	0.01	0.02	0.52	111.4	110.9	213.9	7.73
04-ARD-126-011	5034	Kimberlite	10.37	0.08	0.02	0.01	0.02	0.63	127.9	127.3	204.6	1.82
04-ARD-126-012	5034	Kimberlite	10.26	0.25	0.02	0.02	0.01	0.16	243.8	243.6	1560.2	5.68
04-ARD-126-013	5034	Kimberlite	10.59	0.41	0.02	0.01	0.02	0.63	164.3	163.7	262.9	9.32
04-ARD-126-014	5034	Kimberlite	10.69	0.25	0.03	0.02	0.01	0.23	242.3	242.1	1057.3	5.68
04-ARD-126-015	5034	Kimberlite	10.66	0.07	0.02	0.01	0.02	0.63	134.5	133.9	215.2	1.59
04-ARD-126-016	5034	Kimberlite	10.53	0.26	0.01	0.01	0.01	0.30	248.9	248.6	829.6	5.91
04-ARD-126-017	5034	Kimberlite	10.77	0.18	0.04	0.01	0.04	1.25	129.7	128.5	103.8	4.09
04-ARD-126-018	5034	Kimberlite	10.41	0.62	0.02	0.01	0.02	0.63	237.6	237.0	380.2	14.09
04-ARD-130-001	5034	Kimberlite	8.84	0.11	0.03	0.01	0.03	0.94	69.7	68.8	74.3	2.50
04-ARD-130-002	5034	Kimberlite	9.72	0.15	0.01	0.01	0.01	0.30	95.5	95.2	318.3	3.41
04-ARD-130-003	5034	Kimberlite	9.92	0.07	0.02	0.01	0.02	0.63	66.0	65.4	105.6	1.59
04-ARD-130-004	5034	Kimberlite	9.84	1.36	0.01	0.01	0.01	0.30	137.0	136.7	456.6	30.91
04-ARD-130-005	5034	Kimberlite	9.82	0.09	0.01	0.01	0.01	0.30	68.4	68.1	228.0	2.05
04-ARD-130-007	5034	Kimberlite	9.83	0.22	0.03	0.01	0.03	0.94	62.9	62.0	67.1	5.00
04-ARD-130-009	5034	Kimberlite	10.23	0.37	0.04	0.01	0.04	1.25	186.6	185.4	149.3	8.41
04-ARD-130-010	5034	Kimberlite	10.33	0.41	0.06	0.01	0.05	1.58	267.3	265.7	168.8	9.32
04-ARD-130-011	5034	Kimberlite	10.56	0.38	0.04	0.01	0.04	1.25	98.5	97.3	78.8	8.64
04-ARD-130-012	5034	Kimberlite	9.97	0.86	0.06	0.01	0.05	1.58	266.7	265.1	168.4	19.55
04-ARD-130-013	5034	Kimberlite	10.42	0.60	0.02	0.01	0.02	0.63	153.5	152.9	245.6	13.64
04-ARD-130-014	5034	Kimberlite	10.21	0.65	0.02	0.01	0.02	0.63	250.1	249.5	400.2	14.77
04-ARD-130-015	5034	Kimberlite	10.73	0.49	0.02	0.01	0.02	0.63	90.2	89.6	144.3	11.14
04-ARD-130-016	5034	Kimberlite	10.18	0.35	0.04	0.01	0.03	1.04	252.5	251.4	242.4	7.95
04-ARD-130-017	5034	Kimberlite	10.27	0.26	0.04	0.01	0.04	1.25	79.7	78.5	63.8	5.91

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-130-018	5034	Kimberlite	10.15	0.29	0.06	0.01	0.05	1.54	237.4	235.9	154.0	6.59
04-ARD-132-001	5034	Kimberlite	8.80	0.04	0.03	0.01	0.03	0.94	40.3	39.4	43.0	0.91
04-ARD-132-003	5034	Kimberlite	8.86	0.10	0.02	0.01	0.02	0.63	35.5	34.9	56.8	2.27
04-ARD-132-005	5034	Kimberlite	8.67	0.22	0.02	0.01	0.02	0.63	39.0	38.4	62.4	5.00
04-ARD-132-006	5034	Kimberlite	8.59	0.19	0.01	0.01	0.01	0.30	54.0	53.7	180.2	4.32
04-ARD-132-007	5034	Kimberlite	8.29	0.06	0.01	0.01	0.01	0.30	22.8	22.5	76.0	1.36
04-ARD-132-008	5034	Kimberlite	8.76	0.12	0.03	0.01	0.03	0.94	58.6	57.7	62.5	2.73
04-ARD-132-009	5034	Kimberlite	8.37	0.06	0.03	0.01	0.03	0.94	23.3	22.4	24.9	1.36
04-ARD-132-010	5034	Kimberlite	8.58	0.16	0.07	0.01	0.07	2.19	53.8	51.7	24.6	3.64
04-ARD-132-011	5034	Kimberlite	8.54	0.07	0.01	0.01	0.01	0.30	58.1	57.8	193.7	1.59
04-ARD-132-012	5034	Kimberlite	8.44	0.11	0.02	0.01	0.02	0.63	86.4	85.8	138.2	2.50
04-ARD-132-013	5034	Kimberlite	8.44	0.08	0.02	0.01	0.02	0.63	47.2	46.6	75.5	1.82
04-ARD-132-014	5034	Kimberlite	8.66	0.14	0.06	0.01	0.05	1.52	63.3	61.7	41.6	3.18
04-ARD-132-015	5034	Kimberlite	8.58	0.09	0.01	0.01	0.01	0.30	48.2	47.9	160.7	2.05
04-ARD-132-016	5034	Kimberlite	8.44	0.13	0.01	0.01	0.01	0.30	91.2	90.9	304.1	2.95
04-ARD-132-017	5034	Kimberlite	8.30	0.09	0.04	0.01	0.04	1.25	86.2	85.0	69.0	2.05
04-ARD-132-018	5034	Kimberlite	8.42	2.01	0.02	0.01	0.01	0.29	143.0	142.7	490.2	45.68
04-ARD-139-010	5034	Kimberlite	7.76	3.01	0.04	0.01	0.04	1.25	75.0	73.8	60.0	68.41
04-ARD-139-011	5034	Kimberlite	7.10	1.95	0.11	0.01	0.11	3.44	44.2	40.8	12.9	44.32
04-ARD-139-012	5034	Kimberlite	8.06	1.39	0.07	0.01	0.07	2.19	83.8	81.6	38.3	31.59
04-ARD-139-013	5034	Kimberlite	8.22	0.09	0.01	0.01	0.01	0.30	63.1	62.8	210.3	2.05
04-ARD-139-014	5034	Kimberlite	8.52	0.12	0.05	0.01	0.05	1.56	87.4	85.9	56.0	2.73
04-ARD-139-015	5034	Kimberlite	8.50	0.12	0.01	0.01	0.01	0.30	87.9	87.6	293.0	2.73
04-ARD-139-016	5034	Kimberlite	8.72	0.12	0.06	0.01	0.06	1.88	118.0	116.1	62.9	2.73
04-ARD-139-017	5034	Kimberlite	8.66	0.33	0.02	0.01	0.02	0.63	59.3	58.7	94.9	7.50
04-ARD-139-018	5034	Kimberlite	8.72	0.19	0.04	0.01	0.04	1.25	101.0	99.7	80.8	4.32
04-ARD-139-019	5034	Kimberlite	8.51	0.03	0.01	0.01	0.01	0.30	35.2	34.9	117.3	0.68
04-ARD-139-020	5034	Kimberlite	8.55	0.09	0.01	0.01	0.01	0.30	96.1	95.8	320.4	2.05
04-ARD-139-021	5034	Kimberlite	8.42	0.09	0.01	0.01	0.01	0.30	53.7	53.4	179.0	2.05
04-ARD-139-022	5034	Kimberlite	8.91	0.12	0.01	0.01	0.01	0.30	97.6	97.3	325.3	2.73
04-ARD-139-023	5034	Kimberlite	8.57	0.20	0.02	0.01	0.02	0.63	64.6	64.0	103.4	4.55
04-ARD-139-024	5034	Kimberlite	8.54	0.57	0.03	0.01	0.03	0.94	93.8	92.8	100.0	12.95
04-ARD-139-025	5034	Kimberlite	8.29	0.22	0.01	0.01	0.01	0.30	107.7	107.4	359.0	5.00
04-ARD-139-026	5034	Kimberlite	8.49	0.64	0.04	0.01	0.04	1.25	112.9	111.6	90.3	14.55
04-ARD-139-027	5034	Kimberlite	8.91	0.23	0.01	0.01	0.01	0.30	78.9	78.6	263.0	5.23
04-ARD-139-028	5034	Kimberlite	8.57	0.12	0.01	0.01	0.01	0.30	112.4	112.1	374.7	2.73
04-ARD-139-029	5034	Kimberlite	8.71	0.54	0.02	0.01	0.02	0.63	54.8	54.2	87.7	12.27

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-139-030	5034	Kimberlite	8.44	0.13	0.04	0.01	0.04	1.25	121.6	120.3	97.2	2.95
04-ARD-139-031	5034	Kimberlite	8.36	1.17	0.02	0.01	0.02	0.63	139.0	138.4	222.4	26.59
04-ARD-139-034	5034	Kimberlite	8.75	0.77	0.05	0.01	0.05	1.56	149.0	147.4	95.4	17.50
04-ARD-145-017	5034	Kimberlite	8.53	0.84	0.02	0.01	0.02	0.63	128.7	128.1	205.9	19.09
04-ARD-145-018	5034	Kimberlite	8.31	0.38	0.11	0.04	0.07	2.19	179.0	176.8	81.8	8.64
04-ARD-145-020	5034	Kimberlite	8.53	0.08	0.08	0.01	0.08	2.50	55.8	53.3	22.3	1.82
04-ARD-145-021	5034	Kimberlite	9.27	0.08	0.05	0.01	0.04	1.31	106.3	105.0	81.0	1.82
04-ARD-145-022	5034	Kimberlite	8.92	0.05	0.02	0.01	0.02	0.63	43.4	42.8	69.4	1.14
04-ARD-145-023	5034	Kimberlite	8.77	0.07	0.03	0.01	0.03	0.94	106.5	105.6	113.6	1.59
04-ARD-145-024	5034	Kimberlite	8.64	0.06	0.03	0.01	0.03	0.94	45.0	44.1	48.0	1.36
04-ARD-145-025	5034	Kimberlite	8.56	0.34	0.04	0.01	0.04	1.25	102.7	101.4	82.2	7.73
04-ARD-145-026	5034	Kimberlite	8.34	0.02	0.04	0.01	0.04	1.25	52.5	51.3	42.0	0.45
04-ARD-145-027	5034	Kimberlite	8.65	0.09	0.04	0.01	0.03	0.85	96.3	95.5	112.8	2.05
04-ARD-145-028	5034	Kimberlite	8.48	0.04	0.02	0.01	0.02	0.63	54.3	53.7	86.9	0.91
04-ARD-145-029	5034	Kimberlite	8.92	0.20	0.05	0.01	0.04	1.40	116.7	115.3	83.6	4.55
04-ARD-145-030	5034	Kimberlite	8.79	0.04	0.01	0.01	0.01	0.30	60.8	60.5	202.7	0.91
04-ARD-145-031	5034	Kimberlite	8.49	0.33	0.04	0.01	0.03	0.94	134.3	133.3	143.2	7.50
04-ARD-145-032	5034	Kimberlite	9.85	0.06	0.03	0.01	0.03	0.94	56.0	55.1	59.7	1.36
04-ARD-145-033	5034	Kimberlite	9.80	0.19	0.02	0.01	0.01	0.42	136.8	136.4	328.4	4.32
04-ARD-145-034	5034	Kimberlite	8.56	1.46	0.05	0.01	0.05	1.56	125.0	123.4	80.0	33.18
04-ARD-145-035	5034	Kimberlite	8.88	1.39	0.05	0.01	0.04	1.31	138.1	136.8	105.2	31.59
04-ARD-145-036	5034	Kimberlite	8.76	0.52	0.04	0.01	0.04	1.25	55.8	54.6	44.6	11.82
04-ARD-145-037	5034	Kimberlite	8.72	2.52	0.12	0.01	0.11	3.44	152.9	149.5	44.5	57.27
04-ARD-145-038	5034	Kimberlite	8.36	0.61	0.26	0.01	0.26	8.13	18.2	10.1	2.2	13.86
04-ARD-145-039	5034	Kimberlite	9.40	0.19	0.05	0.01	0.05	1.56	15.6	14.0	10.0	4.32
04-ARD-149-001	5034	Kimberlite	8.65	0.51	0.04	0.01	0.04	1.25	174.6	173.4	139.7	11.59
04-ARD-149-002	5034	Kimberlite	8.68	0.70	0.05	0.02	0.03	1.02	171.6	170.5	168.1	15.91
04-ARD-149-003	5034	Kimberlite	8.79	0.50	0.06	0.03	0.03	0.94	196.5	195.6	209.6	11.36
04-ARD-149-004	5034	Kimberlite	8.93	0.77	0.13	0.04	0.09	2.79	167.7	164.9	60.1	17.50
04-ARD-149-005	5034	Kimberlite	9.21	0.81	0.04	0.03	0.01	0.31	195.0	194.7	624.0	18.41
04-ARD-149-006	5034	Kimberlite	8.77	1.21	0.10	0.04	0.06	1.96	167.7	165.8	85.7	27.50
04-ARD-149-007	5034	Kimberlite	9.51	0.65	0.06	0.04	0.02	0.63	181.2	180.6	289.9	14.77
04-ARD-149-008	5034	Kimberlite	8.78	1.02	0.06	0.03	0.03	0.88	160.1	159.2	183.0	23.18
04-ARD-149-009	5034	Kimberlite	9.41	0.33	0.02	0.02	0.01	0.30	66.4	66.1	221.3	7.50
04-ARD-149-010	5034	Kimberlite	8.75	0.43	0.06	0.03	0.03	0.90	149.3	148.4	166.7	9.77
04-ARD-149-011	5034	Kimberlite	9.31	0.31	0.04	0.03	0.01	0.31	157.6	157.3	504.3	7.05
04-ARD-149-012	5034	Kimberlite	8.80	0.52	0.05	0.02	0.03	0.96	175.4	174.4	183.0	11.82

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-149-013	5034	Kimberlite	8.71	0.54	0.04	0.03	0.01	0.31	191.4	191.1	612.5	12.27
04-ARD-180-040	5034	Kimberlite	9.93	0.22	0.02	0.01	0.01	0.23	205.8	205.6	898.2	5.00
04-ARD-180-041	5034	Kimberlite	10.09	0.16	0.03	0.01	0.03	0.94	109.5	108.6	116.8	3.64
04-ARD-180-042	5034	Kimberlite	9.81	0.18	0.02	0.01	0.01	0.42	217.1	216.6	521.0	4.09
04-ARD-180-043	5034	Kimberlite	9.55	0.84	0.04	0.01	0.04	1.25	145.2	144.0	116.2	19.09
04-ARD-203-031	5034	Kimberlite	8.50	5.26	0.04	0.01	0.04	1.25	95.7	94.5	76.6	119.55
04-ARD-203-032	5034	Kimberlite	8.20	8.62	0.09	0.01	0.08	2.42	177.5	175.1	73.4	195.91
04-ARD-203-033	5034	Kimberlite	7.90	3.95	0.04	0.01	0.03	0.79	81.3	80.5	102.7	89.77
04-ARD-203-034	5034	Kimberlite	8.00	6.86	0.03	0.01	0.02	0.77	167.3	166.5	217.0	155.91
04-ARD-203-035	5034	Kimberlite	8.10	2.63	0.04	0.01	0.03	0.88	81.3	80.4	92.9	59.77
04-ARD-203-036	5034	Kimberlite	8.50	2.07	0.03	0.01	0.02	0.73	116.2	115.5	159.4	47.05
04-ARD-203-037	5034	Kimberlite	8.80	2.18	0.03	0.01	0.02	0.75	109.9	109.1	146.5	49.55
06-ARD-254-008	5034	Kimberlite	8.86	0.24	0.05	0.01	0.05	1.56	47.2	45.6	30.2	5.45
06-ARD-255-007	5034	Kimberlite	8.66	0.92	0.02	0.01	0.02	0.63	71.4	70.8	114.3	20.91
06-GTC-254-007	5034	Kimberlite	8.54	0.24	0.02	0.01	0.02	0.63	48.4	47.8	77.4	5.45
06-GTC-254-009	5034	Kimberlite	8.71	0.15	0.01	0.01	0.01	0.30	84.1	83.8	280.4	3.41
06-GTC-254-011	5034	Kimberlite	8.61	0.88	0.01	0.01	0.01	0.30	117.3	117.0	390.8	20.00
06-GTC-254-012	5034	Kimberlite	8.50	0.37	0.01	0.01	0.01	0.30	126.1	125.8	420.4	8.41
06-GTC-255-004	5034	Kimberlite	8.61	0.16	0.01	0.01	0.01	0.30	29.3	29.0	97.5	3.64
06-GTC-255-007	5034	Kimberlite	8.48	3.74	0.01	0.01	0.01	0.30	211.3	211.0	704.2	85.00
06-GTC-255-008	5034	Kimberlite	8.43	7.76	0.01	0.01	0.01	0.30	331.9	331.6	1106.3	176.36
06-GTC-256-007	5034	Kimberlite	9.53	0.13	0.01	0.01	0.01	0.30	141.3	141.0	470.8	2.95
06-GTC-256-009	5034	Kimberlite	9.85	0.13	0.01	0.02	0.01	0.30	179.5	179.2	598.3	2.95
06-GTC-256-010	5034	Kimberlite	9.89	0.10	0.03	0.03	0.01	0.16	193.3	193.1	1236.8	2.27
06-GTC-256-011	5034	Kimberlite	9.85	0.08	0.01	0.01	0.01	0.30	160.1	159.8	533.8	1.82
06-GTC-258-002	5034	Kimberlite	8.63	0.31	0.01	0.01	0.01	0.30	105.5	105.2	351.7	7.05
06-GTC-258-003	5034	Kimberlite	8.69	0.12	0.01	0.01	0.01	0.30	102.3	102.0	340.8	2.73
06-GTC-258-005	5034	Kimberlite	8.72	0.07	0.01	0.01	0.01	0.30	100.0	99.7	333.3	1.59
06-GTC-258-006	5034	Kimberlite	9.47	0.10	0.02	0.01	0.01	0.31	125.4	125.1	401.2	2.27
06-GTC-258-008	5034	Kimberlite	9.48	0.11	0.01	0.01	0.01	0.30	132.9	132.6	442.9	2.50
06-GTC-258-009	5034	Kimberlite	8.83	0.05	0.01	0.01	0.01	0.30	102.6	102.3	342.1	1.14
06-GTC-258-011	5034	Kimberlite	8.94	0.07	0.01	0.01	0.01	0.30	92.3	92.0	307.5	1.59
06-GTC-258-012	5034	Kimberlite	10.04	0.16	0.01	0.01	0.01	0.30	194.9	194.6	649.6	3.64
06-GTC-258-014	5034	Kimberlite	10.08	0.13	0.01	0.01	0.01	0.30	212.0	211.7	706.7	2.95
06-GTC-258-015	5034	Kimberlite	9.76	0.60	0.01	0.01	0.01	0.30	333.8	333.5	1112.5	13.64
06-GTC-258-017	5034	Kimberlite	9.82	0.50	0.01	0.01	0.01	0.30	343.1	342.8	1143.8	11.36
06-GTC-258-018	5034	Kimberlite	9.99	0.21	0.01	0.01	0.01	0.30	211.3	211.0	704.2	4.77

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-GTC-258-020	5034	Kimberlite	9.47	0.21	0.01	0.01	0.01	0.30	207.4	207.1	691.3	4.77
06-GTC-258-021	5034	Kimberlite	8.86	1.27	0.02	0.02	0.01	0.16	467.5	467.3	2992.0	28.86
06-GTC-258-023	5034	Kimberlite	8.97	1.27	0.02	0.02	0.01	0.16	455.0	454.8	2912.0	28.86
06-GTC-258-024	5034	Kimberlite	9.12	1.22	0.03	0.03	0.01	0.16	533.8	533.6	3416.0	27.73
06-GTC-258-026	5034	Kimberlite	8.96	0.99	0.03	0.03	0.01	0.16	526.3	526.1	3368.0	22.50
06-GTC-258-027	5034	Kimberlite	8.72	0.52	0.03	0.03	0.01	0.16	365.6	365.5	2340.0	11.82
06-GTC-258-028	5034	Kimberlite	8.77	0.68	0.03	0.03	0.01	0.16	367.5	367.3	2352.0	15.45
06-GTC-258-030	5034	Kimberlite	8.78	0.38	0.03	0.03	0.01	0.16	204.5	204.3	1308.8	8.64
06-GTC-258-031	5034	Kimberlite	8.47	1.53	0.02	0.01	0.01	0.31	246.9	246.6	790.0	34.77
06-GTC-258-033	5034	Kimberlite	8.57	1.38	0.01	0.01	0.01	0.30	233.1	232.8	777.1	31.36
06-GTC-258-034	5034	Kimberlite	8.61	3.47	0.04	0.02	0.02	0.63	386.3	385.6	618.0	78.86
06-GTC-258-036	5034	Kimberlite	8.50	1.46	0.03	0.01	0.02	0.63	260.0	259.4	416.0	33.18
06-GTC-260-008	5034	Kimberlite	9.35	1.57	0.02	0.01	0.01	0.29	426.9	426.6	1463.6	35.68
06-GTC-260-009	5034	Kimberlite	9.42	0.14	0.01	0.01	0.01	0.30	194.0	193.7	646.7	3.18
06-GTC-260-010	5034	Kimberlite	9.32	0.24	0.03	0.03	0.01	0.16	210.8	210.6	1348.8	5.45
06-GTC-260-012	5034	Kimberlite	9.36	0.33	0.06	0.05	0.01	0.29	198.3	198.0	679.7	7.50
06-GTC-261-008	5034	Kimberlite	8.64	1.04	0.03	0.01	0.03	0.94	56.3	55.3	60.0	23.64
06-GTC-261-009	5034	Kimberlite	10.16	0.24	0.02	0.02	0.01	0.16	186.0	185.8	1190.4	5.45
06-GTC-261-010	5034	Kimberlite	10.14	0.11	0.02	0.02	0.01	0.16	179.6	179.5	1149.6	2.50
06-GTC-261-012	5034	Kimberlite	10.21	0.14	0.02	0.02	0.01	0.16	190.8	190.6	1220.8	3.18
06-GTC-261-013	5034	Kimberlite	10.06	0.14	0.02	0.02	0.01	0.16	195.5	195.3	1251.2	3.18
06-GTC-261-014	5034	Kimberlite	10.05	0.15	0.02	0.02	0.01	0.16	166.8	166.6	1067.2	3.41
06-GTC-261-014s	5034	Kimberlite	8.99	0.15	0.04	0.02	0.02	0.63	159.8	159.1	255.6	3.41
06-GTC-261-016	5034	Kimberlite	10.21	0.13	0.03	0.03	0.01	0.16	164.0	163.8	1049.6	2.95
06-GTC-261-018	5034	Kimberlite	8.68	5.92	0.06	0.01	0.05	1.50	246.3	244.8	164.2	134.55
MPV-04-234C	5034	Kimberlite	9.80	0.73	0.05	0.01	0.04	1.25	54.3	53.1	43.4	16.59
MPV-04-234C	5034	Kimberlite	10.50	0.12	0.03	0.01	0.03	0.94	130.5	129.6	139.2	2.73
MPV-04-234C	5034	Kimberlite	10.70	0.12	0.04	0.01	0.04	1.25	121.7	120.5	97.4	2.73
MPV-04-234C	5034	Kimberlite	10.80	0.08	0.04	0.01	0.04	1.25	119.7	118.5	95.8	1.82
MPV-04-234C	5034	Kimberlite	11.00	0.11	0.03	0.01	0.03	0.94	116.2	115.3	123.9	2.50
MPV-04-234C	5034	Kimberlite	10.90	0.10	0.03	0.01	0.03	0.94	109.0	108.1	116.3	2.27
MPV-04-234C	5034	Kimberlite	10.90	0.07	0.03	0.01	0.03	0.94	131.2	130.3	139.9	1.59
MPV-04-234C	5034	Kimberlite	10.40	0.10	0.01	0.01	0.01	0.31	124.8	124.5	399.4	2.27
MPV-04-234C	5034	Kimberlite	10.30	0.11	0.03	0.01	0.03	0.94	111.5	110.6	118.9	2.50
MPV-04-234C	5034	Kimberlite	10.60	0.07	0.03	0.01	0.03	0.94	130.7	129.8	139.4	1.59
MPV-04-234C	5034	Kimberlite	10.50	0.04	0.03	0.01	0.03	0.94	87.1	86.2	92.9	0.91
MPV-04-234C	5034	Kimberlite	9.70	0.05	0.01	0.01	0.01	0.31	67.2	66.9	215.0	1.14

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
MPV-04-234C	5034	Kimberlite	9.60	0.01	0.02	0.01	0.02	0.63	67.2	66.6	107.5	0.11
MPV-04-234C	5034	Kimberlite	9.20	0.05	0.03	0.01	0.03	0.94	79.0	78.1	84.3	1.14
MPV-04-234C	5034	Kimberlite	9.10	0.03	0.02	0.01	0.02	0.63	73.2	72.6	117.1	0.68
MPV-04-234C	5034	Kimberlite	8.90	0.09	0.05	0.01	0.05	1.56	64.2	62.6	41.1	2.05
MPV-04-234C	5034	Kimberlite	8.80	0.27	0.04	0.01	0.04	1.25	60.2	59.0	48.2	6.14
100303	Hearne	Kimberlite	8.50	0.41	0.05	0.01	0.05	1.60	73.0	71.4	45.6	9.32
100304	Hearne	Kimberlite	8.50	0.06	0.03	0.01	0.03	0.90	73.7	72.8	81.9	1.36
100306	Hearne	Kimberlite	8.70	0.20	0.04	0.01	0.04	1.30	38.8	37.5	29.8	4.55
100303	MPV 02-080C	Upper transitional kimberlite	8.50	0.41	0.05	0.01	0.05	1.60	73.0	71.4	45.6	9.32
100304	MPV 02-080C	Transitional tuffisitic kimberlite	8.50	0.06	0.03	0.01	0.03	0.90	73.7	72.8	81.9	1.36
100306	MPV 02-080C	Lower transitional kimberlite	8.70	0.20	0.04	0.01	0.04	1.30	38.8	37.6	29.8	4.55
04-ARD-121-025	Hearne	Kimberlite	8.23	2.82	0.09	0.01	0.09	2.81	82.0	79.2	29.2	64.09
04-ARD-121-026	Hearne	Kimberlite	8.43	3.81	0.01	0.01	0.01	0.30	99.6	99.3	332.1	86.59
04-ARD-121-027	Hearne	Kimberlite	7.71	0.55	0.03	0.01	0.03	0.94	30.6	29.7	32.6	12.50
04-ARD-121-028	Hearne	Kimberlite	7.91	0.85	0.05	0.01	0.04	1.31	47.5	46.2	36.2	19.32
04-ARD-121-029	Hearne	Kimberlite	8.17	0.62	0.05	0.01	0.05	1.56	38.1	36.5	24.4	14.09
04-ARD-121-030	Hearne	Kimberlite	8.20	0.31	0.01	0.01	0.01	0.30	39.0	38.7	130.2	7.05
04-ARD-121-031	Hearne	Kimberlite	8.21	1.04	0.04	0.01	0.04	1.25	66.3	65.1	53.0	23.64
04-ARD-121-032	Hearne	Kimberlite	8.51	0.46	0.04	0.01	0.03	0.81	42.4	41.6	52.2	10.45
04-ARD-121-033	Hearne	Kimberlite	8.23	0.27	0.04	0.01	0.03	0.94	34.6	33.7	36.9	6.14
04-ARD-121-034	Hearne	Kimberlite	8.02	0.54	0.01	0.01	0.01	0.30	38.3	38.0	127.6	12.27
04-ARD-121-035	Hearne	Kimberlite	8.26	0.30	0.03	0.01	0.03	0.94	36.6	35.7	39.0	6.82
04-ARD-121-036	Hearne	Kimberlite	8.51	0.37	0.01	0.01	0.01	0.30	40.2	39.9	133.8	8.41
04-ARD-121-037	Hearne	Kimberlite	8.22	0.40	0.06	0.02	0.04	1.25	36.9	35.7	29.5	9.09
04-ARD-121-038	Hearne	Kimberlite	8.20	0.35	0.04	0.01	0.03	0.88	37.8	36.9	43.2	7.95
04-ARD-121-039	Hearne	Kimberlite	8.02	0.69	0.05	0.01	0.04	1.25	39.5	38.3	31.6	15.68
04-ARD-121-040	Hearne	Kimberlite	8.20	0.28	0.02	0.01	0.02	0.63	28.2	27.6	45.1	6.36
04-ARD-121-041	Hearne	Kimberlite	8.26	0.28	0.03	0.01	0.03	0.94	32.2	31.3	34.3	6.36
04-ARD-121-042	Hearne	Kimberlite	8.49	0.19	0.03	0.01	0.03	0.94	25.8	24.9	27.5	4.32
04-ARD-121-043	Hearne	Kimberlite	8.48	0.04	0.03	0.01	0.03	0.94	27.8	26.9	29.7	0.91
04-ARD-121-044	Hearne	Kimberlite	8.31	0.05	0.03	0.01	0.03	0.94	35.4	34.5	37.8	1.14
04-ARD-121-045	Hearne	Kimberlite	8.40	0.21	0.02	0.01	0.02	0.63	49.5	48.9	79.2	4.77
04-ARD-142-043	Hearne	Kimberlite	8.79	0.17	0.04	0.01	0.04	1.25	55.0	53.8	44.0	3.86
04-ARD-142-044	Hearne	Kimberlite	9.03	0.37	0.05	0.01	0.04	1.19	130.5	129.3	109.9	8.41
04-ARD-142-045	Hearne	Kimberlite	9.25	0.45	0.06	0.01	0.05	1.60	219.8	218.2	137.0	10.23
04-ARD-152-001	Hearne	Kimberlite	8.53	0.45	0.02	0.01	0.01	0.31	35.5	35.2	113.6	10.23
04-ARD-152-003	Hearne	Kimberlite	8.12	0.37	0.03	0.02	0.01	0.31	35.8	35.5	114.6	8.41

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-152-005	Hearne	Kimberlite	8.33	0.16	0.01	0.01	0.01	0.30	36.0	35.7	120.0	3.64
04-ARD-152-007	Hearne	Kimberlite	8.48	0.89	0.01	0.01	0.01	0.30	39.0	38.7	130.0	20.23
04-ARD-181-001	Hearne	Kimberlite	8.36	0.05	0.02	0.01	0.02	0.63	112.4	111.8	179.9	1.14
04-ARD-181-002	Hearne	Kimberlite	8.50	0.23	0.06	0.01	0.06	1.88	85.3	83.4	45.5	5.23
04-ARD-181-004	Hearne	Kimberlite	8.71	0.05	0.02	0.01	0.02	0.63	86.6	86.0	138.6	1.14
04-ARD-181-006	Hearne	Kimberlite	8.61	0.08	0.04	0.01	0.04	1.25	99.0	97.8	79.2	1.82
04-ARD-181-007	Hearne	Kimberlite	9.12	0.08	0.01	0.01	0.01	0.30	221.1	220.8	737.0	1.82
04-ARD-181-008	Hearne	Kimberlite	9.07	0.02	0.03	0.01	0.03	0.94	130.8	129.9	139.5	0.45
04-ARD-181-009	Hearne	Kimberlite	8.90	0.81	0.01	0.01	0.01	0.30	232.6	232.3	775.2	18.41
04-ARD-181-010	Hearne	Kimberlite	10.01	0.12	0.01	0.01	0.01	0.30	106.8	106.5	356.0	2.73
04-ARD-181-011	Hearne	Kimberlite	9.86	0.19	0.01	0.01	0.01	0.30	221.5	221.2	738.3	4.32
04-ARD-181-012	Hearne	Kimberlite	10.41	0.32	0.02	0.01	0.02	0.63	167.0	166.4	267.2	7.27
04-ARD-181-013	Hearne	Kimberlite	10.16	0.49	0.02	0.01	0.01	0.42	326.0	325.6	782.3	11.14
04-ARD-181-014	Hearne	Kimberlite	10.62	0.60	0.02	0.01	0.02	0.63	155.0	154.4	248.0	13.64
04-ARD-181-015	Hearne	Kimberlite	10.41	0.26	0.01	0.01	0.01	0.30	332.1	331.8	1107.0	5.91
04-ARD-181-016	Hearne	Kimberlite	10.94	0.56	0.03	0.01	0.02	0.63	161.0	160.4	257.6	12.73
04-ARD-181-017	Hearne	Kimberlite	10.16	0.45	0.02	0.01	0.01	0.19	249.2	249.1	1329.3	10.23
04-ARD-181-018	Hearne	Kimberlite	10.42	1.17	0.03	0.01	0.03	0.94	205.2	204.3	218.9	26.59
04-ARD-186-001	Hearne	Kimberlite	8.33	0.42	0.01	0.01	0.01	0.30	57.7	57.4	192.4	9.55
04-ARD-186-002	Hearne	Kimberlite	8.34	0.51	0.02	0.01	0.02	0.63	45.0	44.4	72.0	11.59
04-ARD-186-003	Hearne	Kimberlite	8.29	0.84	0.04	0.01	0.03	1.04	75.5	74.5	72.5	19.09
04-ARD-186-004	Hearne	Kimberlite	8.33	0.87	0.06	0.01	0.05	1.56	53.3	51.7	34.1	19.77
04-ARD-186-005	Hearne	Kimberlite	8.43	0.34	0.02	0.01	0.02	0.63	106.1	105.4	169.7	7.73
04-ARD-186-006	Hearne	Kimberlite	8.51	0.08	0.03	0.01	0.03	0.94	40.3	39.4	43.0	1.82
04-ARD-186-008	Hearne	Kimberlite	8.46	0.03	0.12	0.01	0.12	3.75	15.6	11.9	4.2	0.68
04-ARD-186-009	Hearne	Kimberlite	8.59	0.16	0.02	0.01	0.01	0.29	87.0	86.7	298.2	3.64
04-ARD-186-010	Hearne	Kimberlite	8.65	0.12	0.03	0.01	0.03	0.94	54.8	53.9	58.5	2.73
04-ARD-190-002	Hearne	Kimberlite	8.15	0.13	0.03	0.01	0.03	0.94	29.5	28.6	31.5	2.95
04-ARD-190-004	Hearne	Kimberlite	8.18	0.28	0.02	0.01	0.02	0.63	38.5	37.9	61.6	6.36
04-ARD-190-005	Hearne	Kimberlite	8.65	0.14	0.01	0.01	0.01	0.30	94.6	94.3	315.4	3.18
04-ARD-190-006	Hearne	Kimberlite	8.48	0.09	0.03	0.01	0.03	0.94	40.8	39.9	43.5	2.05
04-ARD-190-007	Hearne	Kimberlite	8.78	1.08	0.01	0.01	0.01	0.30	123.9	123.6	412.9	24.55
04-ARD-190-008	Hearne	Kimberlite	8.40	0.14	0.01	0.01	0.01	0.30	41.2	40.9	137.3	3.18
04-ARD-190-009	Hearne	Kimberlite	8.23	0.02	0.01	0.01	0.01	0.30	78.1	77.8	260.2	0.45
04-ARD-190-010	Hearne	Kimberlite	8.45	0.09	0.01	0.01	0.01	0.30	45.8	45.5	152.7	2.05
04-ARD-190-011	Hearne	Kimberlite	8.39	0.05	0.01	0.01	0.01	0.30	90.8	90.5	302.6	1.14
04-ARD-190-012	Hearne	Kimberlite	8.97	0.06	0.01	0.01	0.01	0.30	82.0	81.7	273.3	1.36

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-190-013	Hearne	Kimberlite	8.47	0.05	0.01	0.01	0.01	0.30	132.1	131.8	440.4	1.14
04-ARD-190-014	Hearne	Kimberlite	8.96	0.05	0.02	0.01	0.02	0.63	54.2	53.6	86.7	1.14
04-ARD-190-015	Hearne	Kimberlite	8.48	0.03	0.01	0.01	0.01	0.30	111.2	110.9	370.5	0.68
04-ARD-190-016	Hearne	Kimberlite	8.60	0.06	0.02	0.01	0.02	0.63	42.5	41.9	68.0	1.36
04-ARD-193-001	Hearne	Kimberlite	8.36	0.11	0.02	0.01	0.02	0.63	134.7	134.0	215.4	2.50
04-ARD-193-002	Hearne	Kimberlite	8.46	0.11	0.02	0.01	0.02	0.63	78.1	77.5	125.0	2.50
04-ARD-193-003	Hearne	Kimberlite	8.62	0.13	0.04	0.01	0.03	1.02	211.2	210.1	206.8	2.95
04-ARD-193-004	Hearne	Kimberlite	8.11	1.05	0.10	0.05	0.05	1.56	118.1	116.5	75.6	23.86
04-ARD-193-005	Hearne	Kimberlite	8.68	1.14	0.05	0.04	0.01	0.21	231.1	230.9	1109.1	25.91
04-ARD-193-006	Hearne	Kimberlite	8.84	0.03	0.03	0.01	0.03	0.94	93.2	92.3	99.4	0.68
04-ARD-193-007	Hearne	Kimberlite	9.56	0.15	0.01	0.01	0.01	0.30	166.0	165.7	553.4	3.41
04-ARD-193-008	Hearne	Kimberlite	9.21	1.91	0.04	0.01	0.03	0.94	208.9	208.0	222.8	43.41
04-ARD-193-009	Hearne	Kimberlite	8.82	1.37	0.02	0.01	0.01	0.33	290.2	289.9	870.6	31.14
04-ARD-193-010	Hearne	Kimberlite	9.70	0.77	0.02	0.01	0.01	0.31	117.3	117.0	375.4	17.50
04-ARD-193-011	Hearne	Kimberlite	9.57	0.91	0.01	0.01	0.01	0.30	275.7	275.4	919.2	20.68
04-ARD-193-012	Hearne	Kimberlite	10.52	1.07	0.02	0.01	0.02	0.63	173.7	173.1	277.9	24.32
04-ARD-193-013	Hearne	Kimberlite	9.91	0.31	0.01	0.01	0.01	0.30	299.5	299.2	998.2	7.05
04-ARD-193-014	Hearne	Kimberlite	9.50	0.32	0.01	0.01	0.01	0.30	117.5	117.2	391.7	7.27
04-ARD-193-015	Hearne	Kimberlite	9.34	0.66	0.03	0.01	0.02	0.48	231.1	230.6	482.2	15.00
04-ARD-193-016	Hearne	Kimberlite	9.27	0.79	0.03	0.01	0.03	0.94	171.7	170.8	183.1	17.95
04-ARD-196-001	Hearne	Kimberlite	8.09	3.12	0.15	0.01	0.14	4.40	102.5	98.1	23.3	70.91
04-ARD-196-002	Hearne	Kimberlite	8.28	0.17	0.03	0.01	0.03	0.94	37.8	36.9	40.3	3.86
04-ARD-196-003	Hearne	Kimberlite	8.39	0.65	0.03	0.02	0.01	0.44	78.7	78.3	180.0	14.77
04-ARD-196-004	Hearne	Kimberlite	8.27	0.16	0.04	0.01	0.04	1.25	36.8	35.6	29.4	3.64
04-ARD-196-005	Hearne	Kimberlite	8.13	0.54	0.04	0.01	0.03	0.83	83.8	83.0	100.6	12.27
04-ARD-196-006	Hearne	Kimberlite	8.04	0.17	0.15	0.04	0.11	3.44	36.6	33.2	10.6	3.86
04-ARD-196-007	Hearne	Kimberlite	8.39	0.47	0.03	0.01	0.02	0.67	91.5	90.8	137.2	10.68
04-ARD-196-008	Hearne	Kimberlite	8.44	0.34	0.07	0.01	0.06	1.88	45.5	43.6	24.3	7.73
04-ARD-196-009	Hearne	Kimberlite	8.29	0.61	0.02	0.01	0.01	0.33	74.9	74.6	224.8	13.86
04-ARD-196-010	Hearne	Kimberlite	8.53	0.29	0.02	0.01	0.01	0.31	40.8	40.5	130.6	6.59
04-ARD-196-011	Hearne	Kimberlite	8.29	0.51	0.02	0.01	0.02	0.63	72.4	71.8	115.8	11.59
04-ARD-200-036	Hearne	Kimberlite	8.61	0.17	0.02	0.01	0.02	0.63	37.9	37.3	60.6	3.86
04-ARD-200-037	Hearne	Kimberlite	8.70	0.10	0.03	0.01	0.03	0.94	89.5	88.6	95.5	2.27
04-ARD-191-031	Tuzo	Kimberlite	8.24	0.21	0.02	0.01	0.01	0.29	88.2	88.0	302.6	4.77
04-ARD-191-032	Tuzo	Kimberlite	8.26	1.44	0.01	0.01	0.01	0.30	111.2	110.9	370.5	32.73
04-ARD-191-033	Tuzo	Kimberlite	8.29	0.61	0.02	0.01	0.02	0.63	89.5	88.9	143.2	13.86
04-ARD-191-034	Tuzo	Kimberlite	8.02	0.70	0.03	0.02	0.01	0.44	98.4	98.0	225.0	15.91

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-191-035	Tuzo	Kimberlite	8.29	0.58	0.01	0.01	0.01	0.30	89.5	89.2	298.4	13.18
06-ARD-246-013	Tuzo	Kimberlite	9.04	0.03	0.01	0.01	0.01	0.30	4.2	3.9	13.9	0.68
06-ARD-247-002	Tuzo	Kimberlite	8.05	1.30	0.02	0.01	0.02	0.63	54.6	54.0	87.4	29.55
06-ARD-247-003	Tuzo	Kimberlite	8.54	0.44	0.02	0.01	0.02	0.63	50.5	49.8	80.7	10.00
06-ARD-247-004	Tuzo	Kimberlite	8.55	0.41	0.03	0.01	0.03	0.94	49.2	48.2	52.4	9.32
06-ARD-247-005	Tuzo	Kimberlite	9.23	0.11	0.01	0.01	0.01	0.30	5.2	4.9	17.3	2.50
06-ARD-247-006	Tuzo	Kimberlite	8.35	2.01	0.01	0.01	0.01	0.30	69.7	69.4	232.3	45.68
06-ARD-247-009	Tuzo	Kimberlite	8.38	1.26	0.04	0.01	0.04	1.25	42.5	41.3	34.0	28.64
06-ARD-247-010	Tuzo	Kimberlite	8.77	1.22	0.01	0.01	0.01	0.30	68.4	68.1	227.9	27.73
06-ARD-247-011	Tuzo	Kimberlite	8.96	0.19	0.01	0.01	0.01	0.30	44.5	44.2	148.3	4.32
06-ARD-247-012	Tuzo	Kimberlite	8.93	0.37	0.01	0.01	0.01	0.30	47.2	46.9	157.3	8.41
06-ARD-247-013	Tuzo	Kimberlite	8.97	0.67	0.01	0.01	0.01	0.30	36.1	35.8	120.3	15.23
06-ARD-247-014	Tuzo	Kimberlite	9.05	0.50	0.01	0.01	0.01	0.30	51.9	51.6	173.1	11.36
06-ARD-247-015	Tuzo	Kimberlite	9.05	2.70	0.01	0.01	0.01	0.30	51.0	50.7	169.9	61.36
06-ARD-247-016	Tuzo	Kimberlite	9.12	0.13	0.02	0.01	0.02	0.63	56.6	56.0	90.6	2.95
06-ARD-247-017	Tuzo	Kimberlite	9.20	0.11	0.01	0.01	0.01	0.30	50.0	49.7	166.6	2.50
06-ARD-247-018	Tuzo	Kimberlite	9.18	0.13	0.01	0.01	0.01	0.30	54.6	54.3	182.1	2.95
06-ARD-248-001	Tuzo	Kimberlite	8.26	0.31	0.01	0.01	0.01	0.30	42.0	41.7	140.2	7.05
06-ARD-248-002	Tuzo	Kimberlite	8.51	0.18	0.01	0.01	0.01	0.30	44.0	43.7	146.7	4.09
06-ARD-248-003	Tuzo	Kimberlite	8.51	0.27	0.01	0.01	0.01	0.30	56.8	56.5	189.5	6.14
06-ARD-248-004	Tuzo	Kimberlite	8.33	0.44	0.03	0.01	0.03	0.94	28.7	27.8	30.6	10.00
06-ARD-248-005	Tuzo	Kimberlite	8.41	0.28	0.02	0.01	0.02	0.63	47.5	46.9	76.0	6.36
06-ARD-248-006	Tuzo	Kimberlite	8.46	0.44	0.04	0.01	0.04	1.25	47.7	46.4	38.2	10.00
06-ARD-248-007	Tuzo	Kimberlite	8.63	0.25	0.01	0.01	0.01	0.30	40.5	40.2	135.0	5.68
06-ARD-248-008	Tuzo	Kimberlite	8.73	0.34	0.01	0.01	0.01	0.30	37.6	37.3	125.4	7.73
06-ARD-248-009	Tuzo	Kimberlite	8.93	0.37	0.01	0.01	0.01	0.30	36.8	36.5	122.7	8.41
06-ARD-248-010	Tuzo	Kimberlite	9.43	0.02	0.01	0.01	0.01	0.30	7.4	7.1	24.7	0.45
06-ARD-248-011	Tuzo	Kimberlite	8.91	1.26	0.01	0.01	0.01	0.30	68.0	67.7	226.5	28.64
06-ARD-249-008	Tuzo	Kimberlite	8.19	3.77	0.01	0.01	0.01	0.30	135.5	135.2	451.6	85.68
06-ARD-249-024	Tuzo	Kimberlite	8.28	0.51	0.09	0.01	0.09	2.81	42.5	39.6	15.1	11.59
06-ARD-249-025	Tuzo	Kimberlite	8.69	0.12	0.01	0.01	0.01	0.30	48.4	48.1	161.4	2.73
06-ARD-249-026	Tuzo	Kimberlite	8.80	0.34	0.01	0.01	0.01	0.30	56.5	56.2	188.3	7.73
06-ARD-249-028	Tuzo	Kimberlite	8.87	0.15	0.01	0.01	0.01	0.30	41.6	41.3	138.6	3.41
06-ARD-249-029	Tuzo	Kimberlite	8.83	0.12	0.01	0.01	0.01	0.30	42.1	41.8	140.2	2.73
06-ARD-250-015	Tuzo	Kimberlite	8.75	0.48	0.08	0.01	0.08	2.50	11.6	9.1	4.7	10.91
06-ARD-250-016	Tuzo	Kimberlite	9.07	0.04	0.01	0.01	0.01	0.30	4.2	3.9	13.9	0.91
06-ARD-250-017	Tuzo	Kimberlite	8.71	0.30	0.01	0.01	0.01	0.30	43.5	43.2	144.9	6.82

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
06-ARD-250-018	Tuzo	Kimberlite	8.72	0.27	0.01	0.01	0.01	0.30	42.5	42.2	141.5	6.14
06-ARD-250-019	Tuzo	Kimberlite	8.75	0.68	0.01	0.01	0.01	0.30	73.0	72.7	243.5	15.45
06-ARD-252-011	Tuzo	Kimberlite	8.04	1.67	0.01	0.01	0.01	0.30	86.2	85.9	287.4	37.95
06-ARD-252-012	Tuzo	Kimberlite	8.28	0.29	0.01	0.01	0.01	0.30	68.6	68.3	228.6	6.59
06-ARD-268-001	Tuzo	Kimberlite	8.26	0.01	0.10	0.01	0.09	2.81	2.4	-0.4	0.8	0.23
06-ARD-268-002	Tuzo	Kimberlite	8.54	0.01	0.10	0.01	0.10	3.13	3.6	0.5	1.2	0.23
06-ARD-271-001	Tuzo	Kimberlite	8.45	0.35	0.01	0.01	0.01	0.30	33.8	33.5	112.5	7.95
06-GTC-263-008	Tuzo	Kimberlite	8.53	0.42	0.01	0.01	0.01	0.30	33.6	33.3	112.1	9.55
06-GTC-263-024	Tuzo	Kimberlite	9.22	0.15	0.01	0.01	0.01	0.30	60.0	59.7	200.0	3.41
06-GTC-263-025	Tuzo	Kimberlite	9.14	0.30	0.02	0.01	0.02	0.63	71.0	70.4	113.6	6.82
06-GTC-263-026	Tuzo	Kimberlite	9.36	0.03	0.02	0.01	0.02	0.63	69.0	68.4	110.4	0.68
06-GTC-263-027	Tuzo	Kimberlite	9.42	0.18	0.06	0.02	0.04	1.25	70.8	69.5	56.6	4.09
06-GTC-263-028	Tuzo	Kimberlite	9.59	0.39	0.02	0.01	0.01	0.31	76.8	76.4	245.6	8.86
06-GTC-263-029	Tuzo	Kimberlite	9.53	0.14	0.01	0.01	0.01	0.30	67.3	67.0	224.2	3.18
22957	---	Kimberlite	9.60	0.40	0.01	0.03	0.01	0.30	357.0	356.7	1190.0	9.09
22958	---	Kimberlite	8.90	4.20	0.01	0.02	0.01	0.30	300.0	299.7	1000.0	95.45
22959	---	Kimberlite	9.30	1.40	0.01	0.08	0.01	0.30	349.0	348.7	1163.3	31.82
22960	---	Kimberlite	9.10	0.10	0.01	0.03	0.01	0.30	89.0	88.7	296.7	2.27
22961	---	Kimberlite	9.00	1.70	0.04	0.04	0.01	1.30	352.0	350.7	270.8	38.64
22964	---	Kimberlite	8.70	6.50	0.24	0.02	0.21	7.50	319.0	311.5	42.5	147.73
22965	---	Kimberlite	8.50	17.10	0.75	0.03	0.72	23.40	526.0	502.6	22.5	388.64
22966	---	Kimberlite	8.50	18.20	0.24	0.02	0.21	7.50	600.0	592.5	80.0	413.64
22967	---	Kimberlite	8.60	11.60	0.05	0.01	0.03	1.60	428.0	426.4	267.5	263.64
22968	---	Kimberlite	9.10	1.70	0.04	0.02	0.03	1.30	346.0	344.7	266.2	38.64
22957	95-AK030	Kimberlite (facies 2)	9.60	0.40	0.01	0.03	0.01	0.30	357.0	357.0	1190.0	9.09
22958	96-BAK009	Kimberlite (facies 4)	8.90	4.20	0.01	0.02	0.01	0.30	300.0	300.0	1000.0	95.45
22959	96-BAK009	Kimberlite (facies 3)	9.30	1.40	0.01	0.08	0.01	0.30	349.0	349.0	1163.3	31.82
22960	96-BAK009	Kimberlite breccia (facies 4)	9.10	0.10	0.01	0.03	0.01	0.30	89.0	89.0	296.7	2.27
22961	95-AK030	Kimberlite (facies 1)	9.00	1.70	0.04	0.04	0.01	1.30	352.0	351.0	270.8	38.64
22964	96-BAK009	Kimberlite with vein (facies 4)	8.70	6.50	0.24	0.02	0.21	7.50	319.0	312.0	42.5	147.73
22965	96-BAK009	Kimberlite with vein (facies 4)	8.50	17.10	0.75	0.03	0.72	23.40	526.0	503.0	22.5	388.64
22966	96-BAK009	Kimberlite with vein (facies 4)	8.50	18.20	0.24	0.02	0.21	7.50	600.0	593.0	80.0	413.64
22967	96-BAK009	Kimberlite with vein (facies 4)	8.60	11.60	0.05	0.01	0.03	1.60	428.0	426.0	267.5	263.64
22968	96-BAK009	Kimberlite (facies 3)	9.10	1.70	0.04	0.02	0.03	1.30	346.0	345.0	266.2	38.64
04-ARD-164-005	Hearne	Tuffisitic Kimberlite	8.73	0.03	0.01	0.01	0.01	0.30	54.8	54.5	182.7	0.68
04-ARD-164-006	Hearne	Tuffisitic Kimberlite	8.38	0.05	0.02	0.01	0.02	0.63	103.7	103.1	166.0	1.14
04-ARD-164-007	Hearne	Tuffisitic Kimberlite	8.72	0.07	0.01	0.01	0.01	0.30	59.0	58.7	196.7	1.59

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-171-008	Hearne	Tuffisitic Kimberlite	8.72	0.09	0.03	0.01	0.03	0.94	107.3	106.4	114.5	2.05
04-ARD-171-009	Hearne	Tuffisitic Kimberlite	8.56	0.01	0.02	0.01	0.02	0.63	46.4	45.8	74.2	0.11
04-ARD-171-010	Hearne	Tuffisitic Kimberlite	8.69	0.10	0.01	0.01	0.01	0.30	118.8	118.5	396.0	2.27
04-ARD-171-011	Hearne	Tuffisitic Kimberlite	8.54	0.04	0.01	0.01	0.01	0.30	43.6	43.3	145.3	0.91
04-ARD-171-012	Hearne	Tuffisitic Kimberlite	8.57	0.09	0.01	0.01	0.01	0.30	89.5	89.2	298.4	2.05
04-ARD-171-013	Hearne	Tuffisitic Kimberlite	8.56	0.03	0.01	0.01	0.01	0.30	41.4	41.1	138.0	0.68
04-ARD-171-014	Hearne	Tuffisitic Kimberlite	8.37	0.07	0.01	0.01	0.01	0.30	106.1	105.8	353.5	1.59
04-ARD-171-015	Hearne	Tuffisitic Kimberlite	8.66	0.03	0.02	0.01	0.02	0.63	36.7	36.1	58.7	0.68
04-ARD-171-016	Hearne	Tuffisitic Kimberlite	8.33	0.08	0.01	0.01	0.01	0.30	79.3	79.0	264.5	1.82
04-ARD-171-017	Hearne	Tuffisitic Kimberlite	8.64	0.02	0.01	0.01	0.01	0.30	56.5	56.2	188.3	0.45
04-ARD-171-018	Hearne	Tuffisitic Kimberlite	8.45	0.08	0.01	0.01	0.01	0.30	98.4	98.1	328.1	1.82
04-ARD-171-019	Hearne	Tuffisitic Kimberlite	8.60	0.08	0.01	0.01	0.01	0.30	61.8	61.5	206.0	1.82
04-ARD-171-020	Hearne	Tuffisitic Kimberlite	8.58	0.09	0.01	0.01	0.01	0.30	81.9	81.6	272.9	2.05
04-ARD-171-021	Hearne	Tuffisitic Kimberlite	8.67	0.11	0.02	0.01	0.02	0.63	47.6	47.0	76.2	2.50
04-ARD-171-022	Hearne	Tuffisitic Kimberlite	8.28	0.10	0.01	0.01	0.01	0.30	98.4	98.1	328.1	2.27
04-ARD-171-023	Hearne	Tuffisitic Kimberlite	8.66	0.06	0.01	0.01	0.01	0.30	53.0	52.7	176.7	1.36
04-ARD-171-024	Hearne	Tuffisitic Kimberlite	8.56	0.14	0.01	0.01	0.01	0.30	95.9	95.6	319.6	3.18
04-ARD-171-025	Hearne	Tuffisitic Kimberlite	8.66	0.10	0.02	0.01	0.02	0.63	58.3	57.7	93.3	2.27
04-ARD-149-024	5034	Tuffisitic Kimberlite Breccia	7.48	0.95	0.71	0.09	0.62	19.50	28.3	8.8	1.5	21.59
04-ARD-149-025	5034	Tuffisitic Kimberlite Breccia	8.50	4.32	0.05	0.01	0.05	1.56	88.1	86.5	56.4	98.18
04-ARD-149-026	5034	Tuffisitic Kimberlite Breccia	8.20	2.95	0.09	0.01	0.09	2.81	64.7	61.9	23.0	67.05
04-ARD-149-027	5034	Tuffisitic Kimberlite Breccia	8.13	4.71	0.06	0.01	0.06	1.88	100.4	98.5	53.5	107.05
04-ARD-149-030	5034	Tuffisitic Kimberlite Breccia	8.44	1.14	0.08	0.01	0.08	2.50	88.9	86.4	35.6	25.91
100313	Hearne	Tuffisitic kimberlite breccia	8.60	0.16	0.05	0.01	0.04	1.30	69.1	67.8	53.2	3.64
100313	MPV 02-085C	Tuffisitic kimberlite breccia	8.60	0.16	0.05	0.01	0.04	1.30	69.1	67.9	53.2	3.64
04-ARD-157-001	Hearne	Tuffisitic Kimberlite Breccia	8.20	0.24	0.02	0.01	0.01	0.19	72.4	72.2	386.0	5.45
04-ARD-157-002	Hearne	Tuffisitic Kimberlite Breccia	8.12	0.10	0.02	0.01	0.01	0.31	35.5	35.2	113.6	2.27
04-ARD-157-003	Hearne	Tuffisitic Kimberlite Breccia	8.42	0.23	0.02	0.01	0.02	0.63	64.7	64.1	103.6	5.23
04-ARD-157-004	Hearne	Tuffisitic Kimberlite Breccia	8.25	0.15	0.01	0.01	0.01	0.30	34.8	34.5	116.0	3.41
04-ARD-157-006	Hearne	Tuffisitic Kimberlite Breccia	8.47	0.04	0.01	0.01	0.01	0.30	37.2	36.9	124.0	0.91
04-ARD-157-008	Hearne	Tuffisitic Kimberlite Breccia	8.57	0.10	0.01	0.01	0.01	0.30	37.0	36.7	123.3	2.27
04-ARD-157-009	Hearne	Tuffisitic Kimberlite Breccia	8.24	0.26	0.01	0.01	0.01	0.30	83.8	83.5	279.4	5.91
04-ARD-157-010	Hearne	Tuffisitic Kimberlite Breccia	8.35	0.22	0.01	0.01	0.01	0.30	40.0	39.7	133.3	5.00
04-ARD-159-007	Hearne	Tuffisitic Kimberlite Breccia	8.14	0.16	0.02	0.01	0.01	0.23	81.3	81.1	354.7	3.64
04-ARD-159-008	Hearne	Tuffisitic Kimberlite Breccia	8.48	0.07	0.03	0.01	0.03	0.94	33.2	32.3	35.4	1.59
04-ARD-159-010	Hearne	Tuffisitic Kimberlite Breccia	8.57	0.28	0.02	0.01	0.02	0.63	35.0	34.4	56.0	6.36
04-ARD-159-011	Hearne	Tuffisitic Kimberlite Breccia	7.96	0.42	0.05	0.01	0.04	1.23	59.7	58.4	48.5	9.55

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
04-ARD-159-012	Hearne	Tuffisitic Kimberlite Breccia	7.78	0.70	0.03	0.02	0.01	0.31	35.0	34.7	112.0	15.91
04-ARD-159-013	Hearne	Tuffisitic Kimberlite Breccia	8.13	0.52	0.03	0.01	0.02	0.48	69.8	69.4	145.7	11.82
04-ARD-159-014	Hearne	Tuffisitic Kimberlite Breccia	8.09	0.17	0.03	0.02	0.01	0.31	36.5	36.2	116.8	3.86
04-ARD-159-015	Hearne	Tuffisitic Kimberlite Breccia	8.20	0.48	0.04	0.01	0.03	0.79	67.3	66.5	85.0	10.91
04-ARD-159-016	Hearne	Tuffisitic Kimberlite Breccia	8.09	1.01	0.02	0.02	0.02	0.30	39.0	38.7	130.0	22.95
04-ARD-159-017	Hearne	Tuffisitic Kimberlite Breccia	8.22	0.58	0.04	0.01	0.03	0.85	73.7	72.8	86.2	13.18
Comp. IV-1 IV-2	5034	Fine Processed Kimberlite	8.03	0.56	0.05	0.01	0.04	1.25	121.8	120.6	97.4	12.73
Comp. V-1 V-2	5034	Fine PK	9.03	0.42	0.02	0.01	0.02	0.63	127.0	126.4	203.2	9.55
III-1	Hearne	Fine PK	8.71	0.45	0.04	0.01	0.03	0.84	73.8	73.0	87.5	10.23
VI-1	Hearne	Fine PK	8.49	0.65	0.08	0.02	0.07	2.03	81.5	79.5	40.1	14.77
VII-1	Hearne	Fine PK	8.67	0.44	0.04	0.01	0.03	0.84	75.0	74.2	88.9	10.00
VIII-1	5034	Fine PK	8.50	0.53	0.06	0.01	0.05	1.50	100.5	99.0	67.0	12.05
PK-Fines Composite 2	---	Fine PK	7.80	---	0.07	0.01	0.07	2.19	70.3	68.1	32.1	20.83
DGM 714-fine	---	Fine PK	7.85	---	0.09	0.01	0.09	2.81	88.2	85.4	31.4	40.00
DGM 718-fine	---	Fine PK	7.84	---	0.09	0.01	0.09	2.81	90.4	87.6	32.1	24.17
DGM 722-fine	---	Fine PK	8.20	---	0.03	0.01	0.03	0.94	80.6	79.7	86.0	16.67
DGM 726-fine	---	Fine PK	8.21	---	0.04	0.01	0.03	0.94	139.3	138.4	148.6	31.67
DGM 730-fine	---	Fine PK	8.03	---	0.02	0.01	0.02	0.63	82.8	82.2	132.5	25.00
DGM 734-fine	---	Fine PK	8.55	---	0.01	0.01	0.01	0.31	22.7	22.4	72.6	7.50
DGM 738-fine	---	Fine PK	8.17	---	0.03	0.02	0.01	0.31	249.0	248.7	796.8	17.50
DGM 742-fine	---	Fine PK	8.40	---	0.05	0.02	0.03	0.94	84.3	83.4	89.9	10.00
DGM 746-fine	---	Fine PK	8.64	---	0.04	0.03	0.01	0.31	150.6	150.3	481.9	16.67
HC22	Hearne	Fine PK	8.71	0.45	0.04	0.01	0.03	0.84	73.8	73.8	87.5	10.23
HC23	5034	Fine PK	8.03	0.56	0.05	0.01	0.04	1.25	121.8	121.8	97.4	12.73
HC24	5034	Fine PK	9.03	0.42	0.02	0.01	0.02	0.63	127.0	127.0	203.2	9.55
HC25	Hearne	Fine PK	8.49	0.65	0.08	0.02	0.07	2.03	81.5	81.5	40.1	14.77
HC26	Hearne	Fine PK	8.67	0.44	0.04	0.01	0.03	0.84	75.0	75.0	88.9	10.00
HC27	5034	Fine PK	8.50	0.53	0.06	0.01	0.05	1.50	100.5	100.5	67.0	12.05
PK-Fines Composite	---	Fine PK	8.47	---	0.04	0.01	0.03	0.94	110.0	109.1	117.3	20.83
I-1	Hearne	Coarse PK	7.55	0.20	0.05	0.01	0.05	1.56	48.8	47.2	31.2	4.55
I-2	Hearne	Coarse PK	7.61	0.13	0.04	0.01	0.04	1.25	41.0	39.8	32.8	2.95
I-3	Hearne	Coarse PK	7.41	0.15	0.05	0.01	0.05	1.56	44.0	42.4	28.2	3.41
I-4	Hearne	Coarse PK	8.09	0.18	0.02	0.01	0.02	0.63	49.5	48.9	79.2	4.09
I-5	Hearne	Coarse PK	7.58	0.36	0.06	0.01	0.06	1.88	47.8	45.9	25.5	8.18
I-6	Hearne	Coarse PK	8.03	0.22	0.04	0.01	0.04	1.25	41.3	40.0	33.0	5.00
I-7	Hearne	Coarse PK	8.01	0.25	0.05	0.01	0.05	1.56	43.5	41.9	27.8	5.68
I-8	Hearne	Coarse PK	7.73	0.22	0.04	0.01	0.04	1.25	57.8	56.5	46.2	5.00

Acid Base Accounting

Sample	Pit	Lithology	Paste pH	CO_2	Total Su	Sulphate	Sulphide	MPA	NP	NNP	NPR	CaNP
				%	wt. %	wt. %	wt. %	kg $CaCO_3$/t	kg $CaCO_3$/t	kg $CaCO_3$/t		kg $CaCO_3$/t
I-9	Hearne	Coarse PK	7.45	0.22	0.04	0.01	0.04	1.25	52.3	51.1	41.8	5.00
I-10	Hearne	Coarse PK	7.85	0.23	0.03	0.01	0.03	0.94	45.3	44.4	48.3	5.23
I-11	Hearne	Coarse PK	7.76	0.23	0.03	0.01	0.03	0.94	42.5	41.6	45.3	5.23
I-12	Hearne	Coarse PK	7.86	0.34	0.05	0.02	0.03	1.06	47.5	46.4	44.7	7.73
I-13	Hearne	Coarse PK	8.12	0.19	0.03	0.02	0.01	0.44	54.8	54.3	125.1	4.32
I-14	Hearne	Coarse PK	7.53	0.16	0.03	0.01	0.03	0.94	37.0	36.1	39.5	3.64
I-15	Hearne	Coarse PK	8.07	0.25	0.03	0.01	0.03	0.94	44.5	43.6	47.5	5.68
II-1	5034	Coarse PK	8.25	0.18	0.03	0.01	0.03	0.94	70.0	69.1	74.7	4.09
II-3	5034	Coarse PK	7.79	0.18	0.02	0.01	0.02	0.63	46.8	46.2	74.9	4.09
II-8	5034	Coarse PK	7.88	0.15	0.05	0.01	0.05	1.56	45.8	44.2	29.3	3.41
II-9	5034	Coarse PK	7.96	0.20	0.02	0.01	0.02	0.63	58.5	57.9	93.6	4.55
II-10	5034	Coarse PK	7.97	0.11	0.04	0.01	0.04	1.25	47.3	46.1	37.8	2.50
II-11	5034	Coarse PK	7.69	0.21	0.05	0.01	0.05	1.56	47.5	45.9	30.4	4.77
II-12	5034	Coarse PK	7.89	0.34	0.04	0.01	0.04	1.25	59.3	58.1	47.4	7.73
II-13	5034	Coarse PK	7.97	0.23	0.03	0.01	0.03	0.94	62.3	61.4	66.5	5.23
II-14	5034	Coarse PK	8.19	0.21	0.04	0.01	0.04	1.25	71.5	70.3	57.2	4.77
II-15	5034	Coarse PK	8.21	0.18	0.02	0.01	0.02	0.63	69.8	69.2	111.7	4.09
II-16	5034	Coarse PK	8.31	0.20	0.04	0.01	0.04	1.25	68.3	67.1	54.6	4.55
II-17	5034	Coarse PK	8.48	0.22	0.03	0.01	0.03	0.94	67.0	66.1	71.5	5.00
II-18	5034	Coarse PK	8.15	0.44	0.03	0.01	0.03	0.94	68.5	67.6	73.1	10.00
DGM 713-coarse	---	Coarse PK	8.09	---	0.04	0.01	0.04	1.25	50.1	48.9	40.1	13.33
DGM 717-coarse	---	Coarse PK	8.01	---	0.02	0.01	0.02	0.63	98.6	98.0	157.8	11.67
DGM 721-coarse	---	Coarse PK	8.06	---	0.01	0.01	0.01	0.31	93.4	93.1	298.9	12.50
DGM 725-coarse	---	Coarse PK	8.01	---	0.01	0.01	0.01	0.15	112.5	112.5	750.0	9.17
DGM 729-coarse	---	Coarse PK	8.01	---	0.01	0.01	0.01	0.31	54.8	54.5	175.4	9.17
DGM 733-coarse	---	Coarse PK	8.83	---	0.01	0.01	0.01	0.15	9.4	9.4	62.7	2.50
DGM 737-coarse	---	Coarse PK	8.41	---	0.03	0.02	0.01	0.31	171.0	170.7	547.2	14.17
DGM 741-coarse	---	Coarse PK	8.44	---	0.01	0.01	0.01	0.15	86.2	86.2	574.7	4.17
DGM 745-coarse	---	Coarse PK	8.85	---	0.01	0.01	0.01	0.31	153.3	153.0	490.6	10.83
PK-Coarse Composite	---	Coarse PK	8.60	---	0.01	0.01	0.01	0.31	114.0	113.7	364.8	11.67

ATTACHMENT 8.II.5

WHOLE ROCK AND BULK METAL ANALYSIS

Whole Rock and Bulk Metal Analysis

Sample ID	Pit	Lithology		SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P205	Ba(F)	LOI	Total	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	Ga	Se
				%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	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
04-ARD-234-040	5034	Altered Granite	Country Rock	45.22	0.56	4.75	6.61	0.030	25.51	1.42	0.10	1.08	0.36	0.09	13.53	99.26	0.20	46.9	1.7	28	0.1	909.3	67.9	459	3.45	1.9	1.0	0.7	11.2	295	0.1	0.1	0.3	70	0.95	0.123	75	243.8	10.26	842	0.090	26	2.06	0.083	1.17	0.05	0.01	6.3	0.1	8	0.25
04-ARD-234-041	5034	Altered Granite	Country Rock	67.38	0.30	16.26	2.40	0.010	1.63	1.23	3.34	5.32	0.10	0.11	1.48	99.56	2.70	1.7	2.0	44	0.1	10.7	5.1	253	1.42	0.3	1.3	0.3	8.7	13	0.1	0.1	0.1	23	0.20	0.048	31	40.4	0.93	56	0.044	4	0.79	0.019	0.26	0.05	0.01	1.2	0.1	6	0.25
04-ARD-234-058	5034	Altered Granite	Country Rock	56.06	1.07	16.65	8.30	0.100	4.67	5.98	2.96	2.22	0.33	0.05	1.25	99.64	1.90	4.9	1.9	60	0.1	34.1	15.4	276	2.22	2.3	0.7	0.7	4.3	24	0.1	0.1	0.1	49	0.62	0.131	35	60.2	1.42	317	0.165	6	1.33	0.042	0.80	0.05	0.01	2.5	0.3	5	0.25
04-ARD-234-052	5034	Gneissic Granite	Country Rock	69.79	0.28	15.56	2.39	0.010	0.94	2.23	4.26	3.22	0.11	0.11	0.80	99.70	4.50	1.4	3.7	49	0.1	9.8	4.4	204	1.23	0.3	0.4	0.7	8.7	13	0.1	0.1	0.1	18	0.25	0.039	29	56.9	0.48	56	0.100	4	0.55	0.022	0.22	0.05	0.01	1.6	0.1	4	0.25
04-ARD-234-053	5034	Gneissic Granite	Country Rock	69.44	0.31	15.98	2.47	0.010	0.88	2.45	4.36	2.95	0.10	0.10	0.66	99.71	3.20	17.5	4.5	51	0.1	9.7	4.5	207	1.34	0.3	0.3	0.9	9.1	10	0.1	0.2	0.1	17	0.16	0.045	32	41.2	0.49	63	0.075	3	0.57	0.018	0.26	0.05	0.01	1.4	0.1	4	0.25
04-ARD-234-054	5034	Gneissic Granite	Country Rock	68.79	0.31	15.92	2.32	0.010	1.28	1.72	3.90	3.94	0.10	0.12	1.12	99.53	2.90	1.6	2.6	47	0.1	10.1	4.3	203	1.25	0.3	0.5	0.3	8.2	9	0.1	0.2	0.1	16	0.18	0.046	27	40.6	0.65	49	0.044	6	0.63	0.016	0.21	0.05	0.01	1.1	0.1	5	0.25
04-ARD-234-055	5034	Gneissic Granite	Country Rock	73.25	0.12	14.35	1.05	0.010	0.60	1.11	3.39	4.94	0.03	0.18	0.61	99.64	3.20	1.7	2.6	22	0.1	6.3	1.9	104	0.59	0.3	0.4	0.3	7.3	6	0.1	0.2	0.1	7	0.05	0.015	23	43.0	0.30	34	0.023	1	0.31	0.015	0.13	0.05	0.01	0.6	0.1	2	0.25
04-ARD-234-056	5034	Gneissic Granite	Country Rock	68.83	0.34	16.27	2.51	0.010	0.89	2.39	4.46	3.03	0.09	0.12	0.67	99.61	3.80	14.6	5.2	55	0.1	6.9	5.3	223	1.48	0.6	0.6	0.3	8.8	10	0.1	0.2	0.1	21	0.20	0.042	32	51.3	0.50	108	0.119	3	0.71	0.020	0.41	0.05	0.01	1.8	0.1	5	0.25
04-ARD-234-057	5034	Gneissic Granite	Country Rock	56.93	1.00	16.62	7.92	0.100	4.51	4.46	3.09	2.84	0.38	0.05	1.66	99.56	2.20	3.3	2.0	74	0.1	37.0	17.4	398	2.67	0.6	1.0	1.3	4.2	18	0.1	0.1	0.1	61	0.53	0.132	34	67.3	1.77	296	0.203	13	1.62	0.039	1.08	0.05	0.01	4.1	0.4	6	0.25
06-ARD-277-010	Tuzo	Gnessic Granite	Country Rock	58.15	0.82	18.43	7.33	0.10	3.92	1.16	3.22	4.64	0.06	0.08	1.81	99.72	7.6	38.9	2.3	93	0.05	98.6	26.0	532	4.79	0.25	0.4	1.2	4.3	27	0.05	0.05	0.05	158	0.08	0.01	13	209	2.10	248	0.37	9	3.25	0.05	1.96	0.05	0.005	13.2	1.0	14	0.25
06-ARD-277-011	Tuzo	Gnessic Granite	Country Rock	64.94	0.61	15.71	5.80	0.06	3.13	1.57	3.31	3.10	0.09	0.04	1.27	99.63	4.5	64.7	3.9	78	0.05	76.8	21.4	429	3.76	0.25	0.5	0.25	2.6	7	0.1	0.2	0.05	117	0.04	0.01	11	186	1.65	219	0.29	4	2.37	0.03	1.59	0.05	0.005	9.7	0.9	10	0.25
07-ARD-285-006	Tuzo	Gnessic Granite	Country Rock	69.26	0.76	13.26	4.67	0.02	2.45	0.67	2.39	4.82	0.08	0.07	1.28	99.73	7	9.1	2.9	40	0.05	37.2	9.5	168	2.94	0.25	0.6	0.7	23	5	0.05	0.1	0.05	48	0.09	0.038	29	125	1.39	88	0.171	2	1.54	0.022	0.68	0.05	0.005	5.6	0.4	12	0.25
04-ARD-122-022	5034	Granite	Country Rock	54.95	0.34	18.50	2.57	0.030	3.74	2.20	1.35	9.60	0.17	0.09	6.00	99.54	1.10	6.2	3.0	45	0.1	13.4	5.3	325	1.49	0.9	0.8	0.3	8.8	21	0.1	0.1	0.1	40	1.43	0.061	36	21.7	2.07	27	0.011	15	1.17	0.012	0.18	0.2	0.01	1.4	0.1	8	0.25
04-ARD-122-023	5034	Granite	Country Rock	59.02	0.36	18.78	3.02	0.010	2.41	0.88	1.83	9.23	0.23	0.06	3.70	99.53	1.20	9.9	124.2	56	0.7	11.9	4.6	254	1.67	0.9	0.8	0.3	19.1	17	0.1	0.2	0.1	23	0.29	0.093	46	22.0	1.25	37	0.033	15	1.20	0.012	0.24	1.2	0.01	1.0	0.1	9	0.25
04-ARD-122-024	5034	Granite	Country Rock	67.88	0.36	16.57	2.98	0.020	1.02	2.98	4.76	2.18	0.14	0.05	0.70	99.64	3.50	10.0	5.1	62	0.1	8.5	5.5	256	1.70	0.8	0.5	1.8	11.8	12	0.1	0.1	0.1	28	0.30	0.059	46	45.7	0.56	102	0.179	4	0.81	0.019	0.55	0.05	0.01	3.0	0.2	5	0.25
04-ARD-122-025	5034	Granite	Country Rock	67.30	0.37	16.85	2.90	0.010	1.09	3.07	4.65	2.31	0.12	0.10	0.88	99.65	3.70	11.8	5.3	51	0.1	12.3	5.5	233	1.53	0.9	0.5	0.3	13.0	19	0.1	0.1	0.1	26	0.43	0.054	48	49.7	0.62	133	0.173	5	0.70	0.020	0.36	0.05	0.01	2.4	0.1	5	0.25
04-ARD-124-009	5034	Granite	Country Rock	59.86	0.34	18.22	3.03	0.010	2.97	1.51	2.53	7.53	0.17	0.14	3.11	99.42	2.20	4.9	4.5	61	0.1	31.4	6.1	259	1.92	1.1	0.5	0.7	9.2	22	0.1	0.1	0.1	27	0.26	0.080	51	33.3	1.69	159	0.111	21	1.35	0.018	0.58	0.05	0.01	1.8	0.2	8	0.25
04-ARD-124-010	5034	Granite	Country Rock	66.70	0.21	15.50	2.21	0.010	0.70	1.82	2.32	8.22	1.03	0.23	0.70	99.65	3.60	4.6	3.3	27	0.1	5.6	2.9	168	1.21	0.9	0.6	0.3	8.4	19	0.1	0.3	0.1	25	0.97	0.429	35	50.2	0.37	43	0.020	8	0.43	0.013	0.18	0.05	0.01	0.9	0.1	5	0.25
04-ARD-124-011	5034	Granite	Country Rock	67.68	0.58	15.13	4.36	0.030	1.23	1.62	3.63	4.09	0.20	0.12	0.91	99.58	4.60	4.6	8.1	73	0.1	6.1	5.6	325	2.05	1.6	0.8	1.6	22.9	13	0.1	0.7	0.1	28	0.21	0.082	92	64.5	0.63	99	0.119	5	0.83	0.020	0.53	0.05	0.01	2.6	0.2	6	0.25
04-ARD-124-012	5034	Granite	Country Rock	66.83	0.33	16.88	3.25	0.020	0.92	2.63	4.63	3.22	0.20	0.07	0.56	99.54	3.80	5.6	5.7	60	0.1	7.1	4.7	267	1.76	0.9	0.6	0.3	15.9	10	0.1	0.3	0.1	19	0.22	0.082	55	52.1	0.51	105	0.134	3	0.76	0.020	0.59	0.05	0.01	2.7	0.2	6	0.25
04-ARD-124-013	5034	Granite	Country Rock	72.18	0.10	14.89	0.94	0.010	0.37	0.94	3.21	6.03	0.07	0.16	0.56	99.46	4.00	2.8	3.2	16	0.1	1.7	1.0	104	0.51	0.3	4.5	0.3	2.8	11	0.1	0.2	0.1	5	0.11	0.038	13	52.4	0.20	26	0.008	5	0.26	0.015	0.10	0.05	0.01	0.5	0.1	2	0.25
04-ARD-139-001	5034	Granite	Country Rock	69.22	0.50	14.64	2.86	0.010	1.23	1.07	2.56	6.09	0.14	0.13	1.00	99.45	3.40	3.5	25.8	91	0.1	7.4	5.2	186	1.61	1.3	0.5	0.8	15.9	8	0.1	0.3	0.1	28	0.19	0.064	49	53.9	0.72	83	0.081	10	0.78	0.012	0.43	0.05	0.01	1.8	0.2	6	0.25
04-ARD-139-002	5034	Granite	Country Rock	69.01	0.33	14.32	2.00	0.010	1.33	0.31	0.69	8.56	0.14	0.13	2.45	99.28	3.00	2.9	10.8	50	0.1	5.6	4.3	156	1.20	1.1	0.5	1.8	39.4	8	0.1	0.1	0.1	21	0.15	0.058	46	44.0	0.75	54	0.054	17	0.90	0.007	0.37	0.1	0.01	1.5	0.2	6	0.25
04-ARD-139-003	5034	Granite	Country Rock	68.75	0.41	14.23	1.92	0.010	1.38	0.28	0.40	9.18	0.15	0.13	2.33	99.17	2.30	1.9	5.5	47	0.1	5.2	4.1	139	1.04	0.8	0.4	1.1	22.7	7	0.1	0.1	0.1	17	0.16	0.065	45	36.9	0.76	41	0.040	17	0.79	0.005	0.32	0.05	0.01	1.2	0.2	6	0.25
04-ARD-139-004	5034	Granite	Country Rock	68.93	0.56	14.77	2.63	0.020	1.36	0.92	2.30	6.63	0.17	0.14	1.16	99.59	2.90	4.4	10.0	52	0.1	5.8	4.7	157	1.44	1.6	0.8	1.2	38.3	7	0.1	0.5	0.1	20	0.18	0.077	82	50.2	0.77	68	0.079	14	0.91	0.010	0.45	0.05	0.01	1.7	0.3	6	0.25
04-ARD-139-005	5034	Granite	Country Rock	62.63	0.31	14.52	1.69	0.010	1.14	0.27	0.14	10.15	0.12	0.08	8.43	99.49	1.30	4.7	8.1	45	0.1	7.5	4.1	153	0.92	1.3	0.7	1.5	14.9	13	0.1	0.1	0.1	24	0.17	0.059	71	27.6	0.57	54	0.060	12	0.69	0.006	0.46	0.2	0.01	1.7	0.2	5	0.25
04-ARD-139-006	5034	Granite	Country Rock	69.51	0.28	15.31	2.21	0.010	1.11	1.51	3.07	5.19	0.14	0.08	1.12	99.54	3.00	3.0	4.3	44	0.1	7.9	4.0	176	1.26	1.2	0.3	1.2	14.9	8	0.1	0.1	0.1	18	0.12	0.042	35	51.3	0.62	67	0.072	16	0.78	0.014	0.42	0.1	0.01	2.1	0.2	5	0.25
04-ARD-139-007	5034	Granite	Country Rock	64.44	0.30	14.82	1.96	0.010	1.11	0.28	0.09	10.61	0.14	0.09	5.57	99.42	2.40	4.0	3.1	45	0.1	8.9	4.7	188	1.16	0.8	0.4	1.2	6.3	14	0.1	0.1	0.1	18	0.19	0.061	51	39.9	0.53	61	0.058	16	0.70	0.005	0.50	0.9	0.01	1.9	0.2	5	0.25
04-ARD-139-008	5034	Granite	Country Rock	62.95	0.27	14.48	1.59	0.020	1.11	0.28	0.09	10.85	0.12	0.10	7.63	99.49	2.60	3.5	6.5	38	0.1	16.8	5.6	171	0.91	0.7	0.8	1.4	7.8	13	0.1	0.1	0.1	15	0.21	0.069	48	43.7	0.56	56	0.053	14	0.61	0.005	0.39	0.2	0.01	1.4	0.2	5	0.25
04-ARD-139-009	5034	Granite	Country Rock	58.25	0.34	9.67	4.88	0.050	7.50	1.60	0.05	5.21	0.23	0.05	11.30	99.13	2.20	6.5	8.3	33	0.1	274.1	17.5	558	2.70	1.1	0.8	1.9	6.2	94	0.1	0.7	0.1	30	1.22	0.072	42	97.7	3.76	152	0.063	10	1.31	0.011	0.29	0.1	0.01	2.5	0.1	8	0.25
04-ARD-139-032	5034	Granite	Country Rock	49.13	0.25	16.22	2.97	0.050	4.17	6.40	0.40	10.47	0.10	0.21	8.18	98.55	3.30	173.0	7.4	45	0.1	58.9	53.7	546	1.97	2.2	1.1	0.3	21.2	48	0.1	0.1	0.1	19	4.45	0.044	73	44.8	2.34	129	0.056	61	1.38	0.013	0.42	0.05	0.01	1.5	0.2	8	0.25
04-ARD-139-033	5034	Granite	Country Rock	49.43	0.37	17.35	4.01	0.050	8.64	2.45	0.62	7.59	0.14	0.21	7.32	98.18	2.50	7.2	74.2	488	0.2	11.2	6.4	449	2.69	1.0	0.4	0.3	11.7	58	0.7	0.1	0.1	41	1.49	0.064	69	32.7	4.52	148	0.117	187	2.79	0.028	0.65	0.05	0.01	3.1	0.3	13	0.25
04-ARD-139-035	5034	Granite	Country Rock	68.19	0.27	15.68	2.09	0.010	1.71	1.38	3.58	4.76	0.09	0.13	1.44	99.33	9.70	30.9	6.2	196	0.1	10.7	4.5	193	1.26	1.2	0.6	0.3	6.9	20	0.6	0.3	0.1	21	0.19	0.046	33	122.7	1.04	69	0.040	5	0.78	0.038	0.24	0.2	0.01	0.7	0.1	6	0.25
04-ARD-139-036	5034	Granite	Country Rock	66.56	0.40	16.84	2.93	0.020	1.37	2.48	4.38	3.22	0.14	0.10	0.99	99.43	8.20	9.0	4.5	61	0.1	9.0	5.7	279	1.73	1.3	0.5	0.3	11.7	31	0.1	0.3	0.1	34	0.29	0.064	55	112.1	0.80	150	0.149	11	0.95	0.051	0.51	0.1	0.01	2.3	0.2	6	0.25
04-ARD-139-037	5034	Granite	Country Rock	66.54	0.40	16.92	2.86	0.020	1.30	2.80	4.73	2.64	0.14	0.06	0.82	99.23	8.10	20.4	4.9	63	0.1	10.1	5.8	302	1.72	1.2	0.4	1.4	9.1	26	0.1	0.4	0.1	30	0.28	0.072	54	100.7	0.83	140	0.146	13	0.96	0.053	0.55	0.1	0.01	2.1	0.3	7	0.25
04-ARD-139-038	5034	Granite	Country Rock	67.06	0.37	16.86	2.84	0.010	1.21	2.56	4.80	2.94	0.15	0.07	0.75	99.62	8.70	35.3	5.9	58	0.1	9.0	5.1	278	1.74	1.1	0.4	0.5	13.4	19	0.1	0.5	0.1	31	0.24	0.064	53	97.9	0.76	130	0.149	7	0.89	0.048	0.53	0.1	0.01	2.4	0.2	6	0.25
04-ARD-139-039	5034	Granite	Country Rock	67.00	0.62	15.34	3.84	0.020	1.46	1.61	3.53	4.51	0.20	0.15	1.29	99.57	12.80	79.4	6.6	68	0.1	8.3	7.1	266	2.29	1.6	0.7	3.1	25.9	18	0.1	0.3	0.1	47	0.38	0.095	85	119.8	0.87	105	0.138	6	0.99	0.044	0.41	0.1	0.01	2.3	0.2	8	0.25
04-ARD-145-001	5034	Granite	Country Rock	73.27	0.23	13.61	1.85	0.010	0.58	1.27	3.19	5.01	0.01	0.08	0.46	99.57	3.20	2.2	11.1	34	0.1	11.5	2.9	108	1.16	1.0	0.7	0.3	31.1	8	0.1	0.2	0.1	15	0.09	0.010	52	45.9	0.48	36	0.075	1	0.40	0.016	0.23	0.05	0.01	1.5	0.1	4	0.25
04-ARD-145-002	5034	Granite	Country Rock	73.50	0.20	13.65	1.66	0.010	0.43	1.25	3.20	5.01	0.01	0.08	0.40	99.40	5.20	1.6	8.2	28	0.1	4.6	2.4	86	0.98	1.0	0.8	1.0	24.5	5	0.1	0.2	0.1	13	0.07	0.009	41	64.8	0.24	28	0.075	2	0.38	0.018	0.22	0.05	0.01	2.2	0.1	3	0.25
04-ARD-145-003	5034	Granite	Country Rock	72.38	0.23	14.13	1.75	0.010	0.43	1.29	3.26	5.17	0.02	0.09	0.44	99.20	3.40	1.0	7.2	32	0.1	3.2	2.4	89	1.00	1.0	0.7	0.3	30.4	4	0.1	0.1	0.1	11	0.10	0.016	47	43.5	0.26	26	0.075	2	0.37	0.013	0.18	0.1	0.01	1.6	0.1	4	0.25
04-ARD-145-004	5034	Granite	Country Rock	73.13	0.25	13.69	2.00	0.010	0.51	1.14	3.00	5.21	0.02	0.09	0.46	99.51	4.30	2.7	6.3	32	0.1	3.7	3.0	126	1.25	1.2	0.8	0.3	32.1	3	0.1	0.1	0.1	14	0.04	0.015	56	57.1	0.29	39	0.062	3	0.46	0.014	0.26	0.05	0.01	1.5	0.1	4	0.25
04-ARD-145-005	5034	Granite	Country Rock	71.48	0.43	14.23	2.30	0.010	0.82	1.54	3.19	4.88	0.17	0.08	0.54	99.67	3.80	3.3	8.3	45	0.1	4.8	4.1	185	1.38	1.5	1.1	0.3	43.5	5	0.1	0.1	0.1	20	0.15	0.062	75	53.9	0.43	57	0.097	5	0.63	0.014	0.42	0.1	0.01	2.4	0.3	5	0.25
04-ARD-145-006	5034	Granite	Country Rock	72.19	0.28	13.85	1.75	0.010	1.10	0.23	2.57	6.46	0.05	0.08	0.97	99.54	4.40	3.3	3.8	24	0.1	3.4	2.5	106	0.94	1.3	0.5	1.0	36.1	4	0.1	0.4	0.1	9	0.05	0.023	72	53.4	0.59	13	0.004	2	0.53	0.013	0.06	0.05	0.01	0.9	0.1	5	0.25
04-ARD-145-007	5034	Granite	Country Rock	73.58	0.21	13.64	1.44	0.010	0.62	0.68	2.61	5.92	0.01	0.07	0.69	99.48	3.90	1.9	5.8	25	0.1	2.6	1.8	88	0.81	1.0	0.6	0.3	32.8	4	0.1	0.1	0.1	9	0.04	0.011	54	55.1	0.31	19	0.024	3	0.40	0.013	0.14	0.05	0.01	1.2	0.1	3	0.25
04-ARD-145-008	5034	Granite	Country Rock	74.81	0.17	13.34	1.14	0.010	0.31	1.19	2.77	5.34	0.01	0.09	0.37	99.55	3.30	1.0	4.9	18	0.1	1.6	1.7	71	0.66	0.5	0.4	0.3	19.6	3	0.1	0.1	0.1	8	0.03	0.010	35	45.2	0.17	22	0.028	2	0.23	0.010	0.12	0.2	0.01	0.9	0.1	2	0.25
04-ARD-145-009	5034	Granite	Country Rock	70.50	0.43	14.42	2.79	0.010	0.77	1.24	3.16	5.17	0.12	0.11	0.69	99.41	3.70	2.8	7.7	48	0.1	4.1	4.5	192	1.65	1.1	0.6	0.3	38.3	6	0.1	0.1	0.1	22	0.15	0.057	70	49.0	0.43	45	0.054	3	0.53	0.013	0.25	0.05	0.01	2.1	0.2	5	0.25
04-ARD-145-010	5034	Granite	Country Rock	71.40	0.34	14.10	2.60	0.010	0.75	1.00	2.90	5.53	0.15	0.12	0.69	99.59	4.00	2.3	7.1	46	0.1	3.6	3.7	189	1.51	1.5	0.7	0.8	41.9	6	0.1	0.1	0.1	18	0.11	0.040	75	54.2	0.43	45	0.041	4	0.48	0.014	0.22	0.05	0.01	1.6	0.1	5	0.25
04-ARD-145-011	5034	Granite	Country Rock	70.76	0.43	14.39	2.64	0.010	1.08	1.52	3.43	4.17	0.15	0.08	0.85	99.51	4.80	2.4	11.2	49	0.1	7.9	4.2	202	1.49	1.7	0.9	0.3	58.3	9	0.1	0.2	0.1	20	0.17	0.058	103	62.7	0.62	65	0.070	5	0.67	0.020	0.34	0.1	0.01	2.4	0.2	5	0.25
04-ARD-145-012	5034	Granite	Country Rock	70.80	0.37	14.14	2.51	0.010	0.88	1.05	2.55	5.96	0.14	0.12	0.82	99.35	4.30	2.4	10.7	38	0.1	6.6	3.7	116	1.47	1.2	1.2	0.3	55.4	8	0.1	0.2	0.1	18	0.13	0.049	77	53.4	0.50	47	0.034	6	0.49	0.014	0.20	0.2	0.01	1.5	0.1	5	0.25
04-ARD-145-013	5034	Granite	Country Rock	71.26	0.30	14.10	1.73	0.010	0.99	0.77	2.33	6.76	0.15	0.14	0.81	99.35	4.00	2.6	5.5	42	0.1	6.9	3.6	173	1.06	0.3	1.4	0.3	24.9	13	0.1	0.3	0.1	13	0.16	0.064	45	50.5	0.58	46	0.049	5	0.58	0.013	0.27	0.1	0.01	1.8	0.2	5	0.25
04-ARD-145-014	5034	Granite	Country Rock	69.65	0.43	14.47	2.42	0.020	1.13	0.93	2.04	7.09	0.21	0.13	0.94	99.46	3.00	3.9	7.5	48	0.1	7.3	4.3	166	1.28	1.1	0.7	0.3	32.4	10	0.1	0.2	0.1	16	0.17	0.071	61	45.9	0.63	63	0.057	11	0.67	0.012	0.33	0.05	0.01	2.0	0.2	5	0.25
04-ARD-145-015	5034	Granite	Country Rock	64.76	0.46	14.65	2.69	0.020	1.98	1.03	0.55	9.89	0.17	0.14	3.03	99.37	1.60	3.9	6.6	54	0.1	12.1	5.6	264	1.65	1.3	0.6	0.3	21.9	16	0.1	0.2	0.1	27	0.64	0.069	80	29.2	0.99	72	0.066	16	0.79	0.008	0.41	0.1	0.01	3.0	0.2	7	0.25
04-ARD-145-016	5034	Granite	Country Rock	57.13	0.40	15.34	2.58	0.020	4.34	2.95	0.34	10.15	0.14	0.21	5.57	99.17	1.80	2.7	2.9	51	0.1	19.2	5.2	266	1.73	0.8	0.5	0.3	4.5	34	0.1	0.1	0.1	25	2.24	0.064	40	32.5	2.26	76	0.065	11	1.34	0.007	0.37	0.1	0.01	2.8	0.3	7	0.25
04-ARD-149-016	5034	Granite	Country Rock	69.41	0.31	13.92	2.09	0.010	1.42	1.01	1.72	7.65	0.15	0.15	1.63	99.47	2.40	5.2	6.7	39	0.1	19.6	5.8	202	1.33	0.8	0.6	0.3	19.4	11	0.1	0.5	0.1	20	0.46	0.058	36	43.0	0.81	67	0.056	8	0.64	0.009	0.31	0.05	0.01	1.6	0.1	6	0.25
04-ARD-168-001	5034	Granite	Country Rock	67.47	0.34	16.79	2.36	0.020	1.21	2.20	4.78	3.18	0.18	0.06	0.93	99.52	3.20	3.0	12.8	62	0.1	10.0	3.7	289	1.38	1.4	2.4	0.9	28.7	10	0.1	1.1	0.1	15	0.23	0.074	89	45.0	0.73	63	0.108	1	0.79	0.020	0.48	0.05	0.01	2.9	0.2	6	0.25
04-ARD-168-002	5034	Granite	Country Rock	67.16	0.62	15.38	4.36	0.020	1.11	1.91	3.94	3.63	0.20	0.15	0.75	99.23	3.90	5.8	8.2	74	0.1	7.0	7.6	330	2.48	1.2	0.6	0.3	18.8	13	0.1	0.5	0.1	33	0.26	0.093	77	57.1	0.65	139	0.128	0.5	0.84	0.018	0.55	0.05	0.01	2.4	0.2	8	0.25
04-ARD-168-003	5034	Granite	Country Rock	68.76	0.28	16.17	2.30	0.010	0.74	2.40	4.26	3.63	0.14	0.12	0.44	99.25	4.70	14.6	6.2	45	0.1	5.5	3.9	223	1.31	0.3	0.4	0.3	8.9	11	0.1	0.3	0.1	19	0.18	0.055	32	56.9	0.47	92	0.121	0.5	0.64	0.023	0.47	0.05	0.01	2.6	0.2	4	0.25
04-ARD-168-004	5034	Granite	Country Rock	74.68	0.07	13.50	0.85	0.010	0.52	0.41	3.28	5.19	0.05	0.17	0.67	99.40	4.10	7.3	3.0	12	0.1	3.0	1.5	79	0.47	0.3	0.2	0.3	0.7	6	0.1	0.4	0.1	4	0.06	0.024	6	48.7	0.32	20	0.002	0.5	0.27	0.016	0.06	0.1	0.01	0.3	0.1	2	0.25
04-ARD-168-005	5034	Granite	Country Rock	65.98	0.43	17.07	3.41	0.020	1.70	2.64	4.84	2.06	0.18	0.04	0.89	99.26	3.90	18.5	6.1	69	0.1	10.8	7.6	339	2.12	0.7	0.5	0.3	13.3	10	0.1	0.7	0.1	36	0.19	0.086	56	55.4	1.01	188	0.177	1	1.12	0.029	0.81	0.1	0.01	3.4	0.2	8	0.25
04-ARD-168-006	5034	Granite	Country Rock	78.29	0.10	12.02	1.32	0.010	0.37	1.13	4.01	1.47	0.01	0.02	0.72	99.47	4.30	17.0	7.9	14	0.1	2.4	2.1	86	0.64	0.3	0.3	0.5	4.1	4	0.1	1.4	0.1	7	0.04	0.010	14	58.6	0.21	7	0.003	0.5	0.25	0.018	0.06	0.3	0.01	0.3	0.1	2	0.25
04-ARD-168-007	5034	Granite	Country Rock	66.52	0.37	15.98	4.11	0.030	1.96	1.27	4.46	2.65	0.27	0.04	1.87	99.53	3.80	148.7	13.2	68	0.1	52.5	23.8	344	2.58	0.5	0.8	0.7	10.6	7	0.1	2.0	0.1	24	0.21	0.098	30	69.8	1.13	56	0.055	0.5	1.03	0.019	0.31	0.05	0.01	2.1	0.1	8	0.7
04-ARD-168-008	5034	Granite	Country Rock	67.69	0.60	15.17	4.03	0.010	1.88	1.05	3.98	3.26	0.17	0.09	1.39	99.32	4.20	9.6	10.8	48	0.1	5.2	5.3	256	1.81	0.9	0.9	0.6	28.5	9	0.1	1.5	0.1	28	0.14	0.075	94	54.6	1.09	31	0.026	0.5	0.96	0.019	0.16	0.05	0.01	1.8	0.1	8	0.25
04-ARD-168-009	5034	Granite	Country Rock	63.22	0.51	17.31	4.80	0.020	2.94	1.14	5.28	2.09	0.20	0.02	2.11	99.64	2.60	21.9	9.6	72	0.1	12.6	11.0	366	2.71	0.5	1.0	0.6	15.9	7	0.1	1.2	0.1	38	0.22	0.098	52	40.0	1.52	15	0.011	0.5	1.58	0.021	0.09	0.05	0.01	1.4	0.1	11	0.25
04-ARD-168-010	5034	Granite	Country Rock	69.72	0.28	15.63	2.24	0.010	1.64	0.37	4.96	3.16	0.10	0.03	1.46	99.60	3.20	10.7	55.2	31	0.1	6.2	3.9	186	1.24	0.3	5.7	0.3	8.8	5	0.1	8.7	0.1	14	0.11	0.052	20	40.0	0.88	10	0.003	0.5	0.75	0.018	0.07	0.05	0.01	0.5	0.1	6	0.25
04-ARD-168-011	5034	Granite	Country Rock	67.52	0.43	16.04	3.24	0.010	2.25	0.46	5.44	2.19	0.17	0.01	1.76	99.52	3.40	9.2	7.8	50	0.1	10.0	6.1	268	1.79	0.8	0.6	3.7	13.3	5	0.1	1.1	0.1	22	0.16	0.078	47	55.4	1.17	14	0.005	2	1.14	0.021	0.11	0.05	0.01	0.7	0.1	8	0.25
04-ARD-168-012	5034	Granite	Country Rock	67.33	0.41	14.60	5.23	0.010	1.67	0.52	3.40	4.82	0.11	0.08	1.27	99.45	2.90	5.5	20.9	40	0.1	4.5	5.4	208	1.67	0.3	0.5	1.1	23.8	5	0.1	2.3	0.1	27	0.12	0.055	34	38.5	0.97	10	0.004	0.5	0.80	0.013	0.06	0.05	0.01	0.9	0.1	9	0.25
04-ARD-168-013	5034	Granite	Country Rock	70.87	0.17	14.56	2.00	0.010	0.79	0.88	2.92	6.01	0.18	0.20	0.74	99.33	4.70	3.5	5.8	26	0.1	3.5	2.6	133	0.95	0.3	0.3	0.3	1.6	9	0.1	1.0	0.1	12	0.18	0.076	12	59.0	0.43	30	0.012	0.5	0.41	0.017	0.11	0.05	0.01	0.4	0.1	4	0.25
04-ARD-168-014	5034	Granite	Country Rock	64.01	0.61	16.81	5.21	0.050	1.85	2.77	4.67	2.29	0.31	0.03	0.99	99.60	5.30	52.6	45.9	107	0.1	20.8	12.2	452	3.15	0.7	0.8	0.9	23.3	17	0.1	5.1	0.1	43	0.41	0.119	62	73.4	1.04	173	0.232	0.5	1.48	0.031	1.06	0.05	0.01	5.2	0.4	11	0.25
04-ARD-168-015	5034	Granite	Country Rock	67.87	0.34	16.44	2.72	0.020	1.11	2.51	4.40	3.07	0.11	0.10	0.79	99.48	4.10	16.3	11.3	57	0.1	6.4	4.7	274	1.63	0.6	0.6	0.3	11.5	12	0.1	1.6	0.1	23	0.19	0.054	47	53.5	0.63	127	0.114	2	0.81	0.021	0.50	0.05	0.01	2.1	0.2	6	0.25
04-ARD-168-016	5034	Granite	Country Rock	66.29	0.40	17.18	2.90	0.020	1.19	2.98	4.88	2.60	0.20	0.09	0.56	99.29	4.50	21.8	1008.0	66	0.2	9.8	6.5	323	1.78	1.9	0.6	1.4	15.5	19	0.1	123.7	0.3	36	0.22	0.091	65	62.9	0.67	185	0.153	1	0.89	0.028	0.63	0.05	0.01	2.2	0.3	7	0.25
04-ARD-168-017	5034	Granite	Country Rock	68.59	0.31	15.97	2.61	0.010	0.94	2.51	4.25	3.22	0.18	0.12	0.68	99.39	3.50	3.4	14.5	51	0.1	7.2	4.9	233	1.40	0.5	0.5	1.5	11.1	18	0.1	1.7	0.1	20	0.26	0.075	42	51.3	0.48	95	0.097	2	0.56	0.018	0.33	0.05	0.01	1.9	0.2	4	0.25
04-ARD-168-018	5034	Granite	Country Rock	68.43	0.31	16.26	2.57	0.010	0.94	2.45	4.40	3.21	0.11	0.11	0.73	99.53	5.20	3.2	8.2	52	0.1	7.9	4.2	231	1.48	0.7	0.5	0.5	10.7	20	0.1	1.0	0.1	21	0.25	0.053	38	72.1	0.49	102	0.109	4	0.62	0.028	0.40	0.05	0.01	2.2	0.2	5	0.25
04-ARD-168-019	5034	Granite	Country Rock	61.86	0.46	19.29	3.25	0.030	1.60	3.32	5.51	2.56	0.27	0.09	1.37	99.61	2.80	19.6	17.7	81	0.2	12.6	8.6	345	1.86	1.1	0.8	0.3	23.9	27	0.1	2.5	0.1	25	0.62	0.118	102	42.9	0.81	104	0.145	1	0.87	0.021	0.33	0.05	0.01	2.4	0.1	7	0.25
04-ARD-168-020	5034	Granite	Country Rock	67.05	0.40	16.71	3.01	0.020	1.11	3.28	4.82	2.07	0.14	0.09	0.80	99.50	3.80	5.5	12.0	62	0.1	10.8	5.7	281	1.56	0.6	0.7	0.3	11.1	20	0.1	1.5	0.1	27	0.48	0.062	51	54.5	0.59	138	0.160	0.5	0.67	0.021	0.37	0.05	0.01	2.1	0.2	5	0.25
04-ARD-168-021	5034	Granite	Country Rock	68.70	0.25	16.19	2.43	0.010	1.12	1.62	4.38	3.80	0.18	0.08	0.92	99.68	3.40	3.2	1.6	42	0.1	6.7	4.1	186	1.32	0.3	1.3	0.3	9.4	8	0.1	0.1	0.1	16	0.19	0.080	35	46.7	0.59	36	0.043	3	0.65	0.017	0.27	0.1	0.01	1.7	0.1	5	0.25
04-ARD-168-022	5034	Granite	Country Rock	68.16	0.30	16.17	2.57	0.010	1.76	0.91	4.53	3.57	0.20	0.10	1.41	99.69	3.60	2.4	0.7	31	0.1	7.0	4.7	173	1.27	0.5	0.7	0.3	8.3	8	0.1	0.1	0.1	15	0.15	0.070	43	53.0	0.94	20	0.008	1	0.79	0.022	0.09	0.05	0.01	0.7	0.1	6	0.25
04-ARD-168-023	5034	Granite	Country Rock	67.62	0.34	16.89	2.84	0.010	0.98	3.08	4.76	2.33	0.15	0.08	0.56	99.64	4.10	5.9	3.3	56	0.1	8.1	5.9	267	1.57	0.5	0.3	0.3	6.8	16	0.1	0.1	0.1	25	0.31	0.066	39	61.2	0.55	143	0.148	3	0.64	0.024	0.50	0.05	0.01	2.2	0.2	5	0.25
04-ARD-168-024	5034	Granite	Country Rock	66.94	0.38	16.85	2.98	0.020	1.04	3.18	4.71	2.32	0.14	0.08	0.72	99.36	4.90	3.0	4.1	67	0.1	9.5	6.0	285	1.66	0.7	0.4	0.3	9.3	21	0.1	0.1	0.1	26	0.36	0.069	50	69.2	0.55	197	0.154	4	0.79	0.031	0.65	0.05	0.01	2.4	0.2	5	0.25
04-ARD-168-025	5034	Granite	Country Rock	67.26	0.34	16.70	2.72	0.020	1.32	2.42	4.73	2.59	0.12	0.08	1.29	99.59	3.20	1.2	3.2	54	0.1	8.0	4.4	270	1.39	0.5	0.5	0.6	10.0	15	0.1	0.1	0.1	18	0.46	0.057	42	43.2	0.71	23	0.060	4	0.63	0.016	0.09	0.05	0.01	1.6	0.1	5	0.25
04-ARD-168-026	5034	Granite	Country Rock	64.77	0.43	17.76	3.26	0.020	1.65	2.77	5.03	2.53	0.23	0.06	0.98	99.49	3.60	11.6	2.8	70	0.1	10.7	7.9	341	1.98	1.2	0.4	0.6	9.7	15	0.1	0.1	0.1	34	0.32	0.090	53	59.5	0.90	200	0.190	4	1.02	0.028	0.81	0.05	0.01	3.0	0.3	7	0.25
04-ARD-168-027	5034	Granite	Country Rock	80.33	0.17	9.07	2.18	0.010	0.50	0.54	1.69	3.93	0.02	0.10	0.66	99.20	34.20	29.2	2.6	30	0.1	7.9	3.6	146	1.12	0.3	0.2	0.7	5.5	5	0.1	0.1	0.1	9	0.13	0.011	13	62.3	0.28	16	0.016	1	0.30	0.009	0.10	0.05	0.01	0.8	0.1	3	0.25
04-ARD-168-028	5034	Granite	Country Rock	73.43	0.15	13.84	0.87	0.010	0.50	1.25	2.76	5.28	0.05	0.22	0.76	99.12	3.60	5.9	5.0	18	0.1	3.0	3.6	110	0.50	0.3	0.5	0.6	11.1	14	0.1	0.3	0.1	5	0.19	0.021	31	45.4	0.28	29	0.030	3	0.27	0.012	0.10	0.05	0.01	0.8	0.1	2	0.25
04-ARD-168-029	5034	Granite	Country Rock	67.41	0.36	16.56	3.04	0.020	1.16	3.25	4.75	1.98	0.20	0.04	0.70	99.47	4.20	12.6	5.3	67	0.1	14.1	6.0	271	1.75	0.3	0.4	0.3	13.7	20	0.1	0.1	0.1	29	0.32	0.066	46	62.3	0.66	115	0.180	4	0.76	0.024	0.60	0.1	0.01	3.1	0.2	6	0.25
04-ARD-168-030	5034	Granite	Country Rock	66.44	0.41	16.53	3.20	0.030	1.41	3.04	4.59	2.23	0.10	0.04	1.07	99.09	3.40	24.5	3.2	63	0.1	9.5	6.3	279	1.84	0.3	0.3	0.3	13.1	22	0.1	0.1	0.1	29	0.37	0.054	44	48.9	0.82	112	0.171	6	0.82	0.020	0.53	0.05	0.01	2.8	0.2	6	0.25
04-ARD-168-031	5034	Granite	Country Rock	65.98	0.36	16.70	2.75	0.020	1.40	2.85	3.93	3.81	0.12	0.08	1.33	99.33	3.10	2.0	3.0	62	0.1	8.7	5.7	300	1.65	0.3	0.7	0.3	11.3	18	0.1	0.1	0.1	31	0.42	0.055	51	51.4	0.80	149	0.135	13	0.84	0.020	0.67	0.05	0.01	2.1	0.2	6	0.25
04-ARD-168-032	5034	Granite	Country Rock	64.20	0.27	16.77	2.14	0.020	1.76	2.13	2.57	6.82	0.25	0.12	2.48	99.53	2.40	3.5	2.8	44	0.1	8.5	3.8	260	1.21	0.3	0.6	0.6	5.0	17	0.1	0.3	0.1	23	0.78	0.105	25	34.3	0.92	63	0.056	19	0.74	0.014	0.34	0.05	0.01	1.5	0.1	6	0.25
04-ARD-168-033	5034	Granite	Country Rock	69.65	0.25	15.52	2.10	0.010	0.85	2.17	3.74	3.85	0.12	0.14	0.76	99.16	5.10	12.8	3.7	38	0.1	9.0	4.6	173	1.18	0.3	0.5	0.5	9.4	18	0.1	0.2	0.1	17	0.24	0.056	37	57.4	0.47	80	0.075	7	0.48	0.019	0.29	0.05	0.01	1.3	0.1	4	0.25
04-ARD-168-034	5034	Granite	Country Rock	68.41	0.31	16.11	2.43	0.010	1.17	2.61	3.95	3.45	0.10	0.12	0.75	99.42	4.70	4.4	2.9	51	0.1	15.0	5.2	231	1.53	0.3	0.6	1.0	8.1	20	0.1	0.2	0.1	29	0.22	0.046	36	70.5	0.65	127	0.129	10	0.64	0.024	0.49	0.05	0.01	2.1	0.2	5	0.25
04-ARD-180-001	5034	Granite	Country Rock	71.62	0.23	15.13	1.85	0.010	0.60	2.28	4.23	2.97	0.07	0.11	0.37	99.47	3.30	2.9	3.1	42	0.1	3.2	3.0	135	0.98	0.3	0.2	0.3	3.6	6	0.1	0.4	0.1	15	0.12	0.023	11	41.9	0.32	50	0.086	1	0.42	0.016	0.23	0.05	0.01	1.5	0.1	4	0.25
04-ARD-180-002	5034	Granite	Country Rock	64.98	0.25	18.60	2.31	0.010	0.77	2.46	5.17	4.30	0.10	0.08	0.55	99.58	2.60	0.9	5.7	55	0.1	4.6	3.7	291	1.26	0.6	6.1	0.3	10.8	7	0.1	0.3	0.1	15	0.16	0.036	25	35.7	0.39	37	0.083	4	0.51	0.018	0.29	0.1	0.01	2.4	0.2	6	0.25
04-ARD-180-003	5034	Granite	Country Rock	69.81	0.28	15.56	2.25	0.010	0.68	2.43	4.38	3.09	0.09	0.08	0.61	99.27	3.30	3.7	5.0	51	0.1	4.0	3.3	148	1.25	0.3	0.3	0.3	11.3	8	0.1	0.2	0.1	18	0.26	0.036	25	44.1	0.37	35	0.094	2	0.48	0.016	0.21	0.05	0.01	1.6	0.1	5	0.25
04-ARD-180-004	5034	Granite	Country Rock	69.18	0.27	15.64	2.25	0.010	1.24	0.83	3.96	4.75	0.18	0.11	1.09	99.51	3.30	2.1	2.6	37	0.1	3.3	3.1	129	1.00	0.6	0.3	0.3	21.8	6	0.1	0.1	0.1	16	0.16	0.061	47	43.9	0.62	17	0.010	3	0.59	0.018	0.09	0.05	0.01	0.7	0.1	6	0.25
04-ARD-180-005	5034	Granite	Country Rock	69.33	0.21	16.12	1.96	0.010	1.08	1.74	4.40	3.52	0.18	0.08	0.87	99.50	3.20	6.9	2.0	46	0.1	4.2	3.9	157	1.14	0.3	0.2	0.3	0.7	6	0.1	0.1	0.1	13	0.14	0.044	7	39.2	0.63	30	0.054	2	0.64	0.015	0.19	0.05	0.01	1.0	0.1	6	0.25
04-ARD-180-006	5034	Granite	Country Rock	70.41	0.28	15.52	2.11	0.010	0.64	2.52	4.57	2.64	0.07	0.07	0.37	99.21	4.70	4.1	4.1	45	0.1	3.9	3.4	155	1.17	0.7	0.8	3.3	7.5	7	0.1	0.2	0.1	14	0.13	0.026	19	54.2	0.32	51	0.094	2	0.50	0.022	0.34	0.05	0.01	1.9	0.2	5	0.25
04-ARD-180-007	5034	Granite	Country Rock	73.40	0.18	13.68	1.59	0.010	0.46	1.29	3.15	5.05	0.03	0.17	0.41	99.42	4.20	6.9	10.5	33	0.1	2.7	2.5	105	0.95	0.7	0.6	0.3	26.4	9	0.1	0.8	0.1	15	0.11	0.016	52	55.0	0.25	35	0.060	2	0.34	0.015	0.16	0.05	0.01	1.0	0.1	3	0.25
04-ARD-180-008	5034	Granite	Country Rock	68.83	0.27	15.50	2.23	0.010	1.12	2.40	3.98	3.73	0.15	0.08	1.20	99.50	4.40	7.1	3.1	54	0.1	5.6	4.2	228	1.37	0.3	0.2	0.3	3.4	8	0.1	0.3	0.1	17	0.54	0.055	12	58.1	0.64	58	0.095	5	0.72	0.021	0.34	0.05	0.01	1.5	0.2	6	0.25
04-ARD-180-009	5034	Granite	Country Rock	70.77	0.25	15.13	1.92	0.010	0.88	1.96	3.84	3.88	0.09	0.08	0.75	99.56	3.70	9.2	2.9	42	0.1	3.8	3.5	140	1.10	0.3	0.4	0.3	8.2	9	0.1	0.1	0.1	16	0.21	0.032	19	48.9	0.50	43	0.080	5	0.59	0.017	0.23	0.05	0.01	1.2	0.1	5	0.25
04-ARD-180-010	5034	Granite	Country Rock	70.90	0.23	15.34	2.15	0.010	0.56	2.53	4.42	2.79	0.10	0.07	0.38	99.48	4.10	6.1	5.3	47	0.1	4.1	3.0	137	1.20	0.5	0.2	0.3	8.3	6	0.1	0.4	0.1	13	0.18	0.028	17	53.7	0.30	40	0.099	1	0.45	0.021	0.24	0.05	0.01	1.8	0.1	4	0.25
04-ARD-180-011	5034	Granite	Country Rock	69.72	0.25	16.03	2.77	0.010	0.70	2.68	4.96	2.09	0.02	0.03	0.37	99.63	4.30	20.4	8.5	55	0.1	5.3	5.0	197	1.63	0.7	0.9	0.3	22.7	5	0.1	0.3	0.1	14	0.10	0.007	40	55.4	0.36	43	0.118	2	0.59	0.023	0.38	0.05	0.01	2.4	0.2	7	0.25
04-ARD-180-012	5034	Granite	Country Rock	71.05	0.20	15.21	1.69	0.010	0.50	2.00	3.81	4.36	0.11	0.08	0.43	99.45	3.60	6.1	7.3	31	0.1	3.9	2.7	125	0.99	0.3	0.4	0.3	13.5	4	0.1	0.3	0.1	9	0.19	0.042	26	43.8	0.26	29	0.075	3	0.42	0.014	0.21	0.05	0.01	1.7	0.1	4	0.25
04-ARD-180-013	5034	Granite	Country Rock	71.62	0.34	14.11	2.48	0.010	0.76	1.05	3.16	5.15	0.20	0.09	0.67	99.64	4.90	3.0	7.9	44	0.1	5.0	3.5	157	1.45	1.1	0.9	1.1	39.3	6	0.1	0.2	0.1	17	0.12	0.049	68	59.3	0.39	33	0.047	5	0.53	0.017	0.24	0.05	0.01	1.7	0.2	5	0.25
04-ARD-180-014	5034	Granite	Country Rock	73.06	0.25	13.77	1.86	0.010	0.52	1.25	3.09	4.90	0.05	0.08	0.49	99.33	3.80	1.4	8.4	34	0.1	2.8	2.7	126	1.08	0.6	0.8	0.3	30.0	5	0.1	0.4	0.1	15	0.06	0.022	50	51.1	0.29	32	0.044	5	0.45	0.013	0.20	0.05	0.01	1.1	0.1	4	0.25
04-ARD-180-015	5034	Granite	Country Rock	72.51	0.31	13.77	2.05	0.010	0.86	0.98	2.82	5.42	0.05	0.09	0.61	99.48	2.80	1.4	9.2	41	0.1	3.9	3.5	145	1.18	0.8	1.0	0.3	50.5	4	0.1	0.1	0.1	15	0.03	0.012	86	41.5	0.43	38	0.063	3	0.57	0.010	0.27	0.05	0.01	2.0	0.2	5	0.25
04-ARD-180-016	5034	Granite	Country Rock	71.20	0.37	14.42	2.54	0.010	0.66	1.27	3.04	5.51	0.05	0.08	0.47	99.62	4.80	2.2	10.4	44	0.1	3.8	3.6	147	1.37	1.0	0.9	1.4	42.0	5	0.1	0.1	0.1	21	0.08	0.009	67	55.3	0.33	36	0.097	3	0.51	0.015	0.26	0.05	0.01	2.2	0.2	5	0.25
04-ARD-180-017	5034	Granite	Country Rock	74.40	0.17	13.43	1.00	0.010	0.38	0.77	2.38	6.53	0.05	0.09	0.44	99.65	3.50	1.2	3.9	20	0.1	2.1	1.7	71	0.54	0.3	0.4	0.3	14.7	3	0.1	0.1	0.1	6	0.05	0.018	28	47.2	0.21	16	0.015	5	0.28	0.010	0.10	0.05	0.01	0.6	0.1	2	0.25
04-ARD-180-018	5034	Granite	Country Rock	72.00	0.49	13.93	2.13	0.010	0.79	1.38	2.97	5.03	0.23	0.11	0.56	99.63	3.60	2.8	7.5	41	0.1	4.7	4.1	143	1.21	0.7	0.8	0.3	37.3	6	0.1	0.1	0.1	20	0.14	0.052	61	54.3	0.42	59	0.081	4	0.60	0.014	0.33	0.05	0.01	2.2	0.2	4	0.25
04-ARD-180-019	5034	Granite	Country Rock	71.66	0.34	14.21	1.87	0.010	0.70	1.27	2.81	5.84	0.15	0.14	0.52	99.52	3.60	2.7	7.4	39	0.1	4.2	3.5	173	1.11	0.8	0.7	0.3	31.1	6	0.1	0.1	0.1	14	0.16	0.059	54	51.1	0.39	57	0.079	4	0.54	0.013	0.32	0.05	0.01	2.0	0.2	4	0.25
04-ARD-180-020	5034	Granite	Country Rock	70.41	0.50	14.61	2.50	0.020	1.02	1.66	3.38	4.40	0.12	0.11	0.60	99.33	4.10	4.5	8.1	59	0.1	5.2	6.1	234	1.49	0.8	0.7	0.3	37.6	7	0.1	0.1	0.1	19	0.14	0.053	69	46.5	0.55	78	0.110	3	0.73	0.014	0.48	0.05	0.01	2.6	0.3	5	0.25
04-ARD-180-021	5034	Granite	Country Rock	70.06	0.46	14.40	3.22	0.020	0.91	1.50	3.11	4.80	0.18	0.13	0.76	99.55	3.80	3.3	11.2	49	0.1	5.6	5.1	176	1.77	0.7	1.0	0.8	61.4	8	0.1	0.2	0.1	23	0.19	0.064	77	48.7	0.45	61	0.067	5	0.59	0.013	0.34	0.05	0.01	1.8	0.2	5	0.25
04-ARD-180-022	5034	Granite	Country Rock	69.73	0.43	14.64	3.14	0.020	1.01	1.19	3.34	4.96	0.17	0.12	0.77	99.52	3.40	4.3	8.0	52	0.1	6.0	4.5	195	1.83	3.1	0.9	0.3	43.3	7	0.1	0.2	0.1	27	0.18	0.067	74	49.9	0.53	70	0.088	4	0.69	0.017	0.42	0.05	0.01	2.6	0.2	6	0.25
04-ARD-180-023	5034	Granite	Country Rock	79.69	0.25	10.11	2.10	0.010	0.75	0.86	2.94	2.16	0.02	0.03	0.68	99.60	4.10	6.3	2.0	32	0.1	4.3	3.0	155	1.17	0.3	0.5	0.3	11.9	5	0.1	0.1	0.1	20	0.06	0.018	28	54.4	0.38	31	0.043	6	0.45	0.013	0.21	0.05	0.01	1.2	0.1	5	0.25
04-ARD-180-024	5034	Granite	Country Rock	68.73	0.60	14.75	3.00	0.020	1.11	1.77	3.40	4.78	0.21	0.14	0.83	99.34	3.70	12.5	11.6	64	0.1	8.4	6.4	279	1.72	0.5	0.7	0.3	32.2	11	0.1	0.7	0.1	25	0.43	0.084	65	52.3	0.61	73	0.149	3	0.76	0.015	0.40	0.1	0.01	3.2	0.2	5	0.25
04-ARD-180-025	5034	Granite	Country Rock	69.19	0.28	15.56	2.47	0.020	0.94	2.39	4.09	3.50	0.20	0.09	0.55	99.28	3.60	2.2	2.4	58	0.1	11.2	4.6	219	1.53	0.3	0.2	0.3	6.2	10	0.1	0.1	0.1	26	0.23	0.085	18	50.9	0.55	72	0.109	6	0.62	0.018	0.42	0.05	0.01	2.4	0.2	5	0.25
04-ARD-180-026	5034	Granite	Country Rock	72.38	0.20	14.80	1.62	0.010	0.74	1.82	4.76	2.38	0.07	0.06	0.87	99.71	4.10	2.5	5.2	39	0.1	5.5	4.6	171	0.93	0.3	0.2	0.3	5.7	19	0.1	0.3	0.1	15	0.27	0.026	12	52.9	0.40	14	0.080	4	0.44	0.020	0.06	0.05	0.01	1.0	0.1	4	0.25
04-ARD-180-027	5034	Granite	Country Rock	70.26	0.28	15.39	1.95	0.010	1.03	1.84	4.17	3.48	0.07	0.09	1.07	99.64	3.20	2.1	2.6	41	0.1	5.2	3.2	197	1.05	0.3	0.2	0.3	7.5	9	0.1	0.1	0.1	16	0.28	0.032	16	42.7	0.56	42	0.063	4	0.54	0.015	0.20	0.05	0.01	1.3	0.1	4	0.25
04-ARD-180-028	5034	Granite	Country Rock	71.12	0.21	15.13	1.74	0.010	0.75	1.92	3.97	3.81	0.05	0.11	0.72	99.54	4.30	3.6	7.6	37	0.1	5.2	3.3	167	1.01	0.8	0.5	0.3	23.5	10	0.1	0.3	0.1	15	0.21	0.030	44	56.3	0.43	45	0.072	3	0.47	0.021	0.24	0.05	0.01	1.3	0.1	4	0.25
04-ARD-180-029	5034	Granite	Country Rock	70.23	0.23	15.10	1.80	0.010	1.11	1.50	3.94	4.15	0.07	0.10	1.32	99.56	2.70	3.2	2.1	30	0.1	4.2	3.0	154	0.91	0.3	0.3	0.3	9.0	12	0.1	0.1	0.1	13	0.32	0.033	21	40.1	0.62	16	0.032	3	0.41	0.014	0.10	0.1	0.01	0.9	0.1	4	0.25
04-ARD-180-030	5034	Granite	Country Rock	69.97	0.23	15.52	2.39	0.010	0.94	1.62	4.73	2.86	0.10	0.06	1.00	99.43	3.50	3.5	3.8	34	0.1	4.8	3.1	166	1.35	0.3	0.3	0.3	12.0	10	0.1	0.2	0.1	17	0.24	0.038	17	50.4	0.50	15	0.052	2	0.45	0.020	0.10	0.05	0.01	1.3	0.1	5	0.25
04-ARD-180-031	5034	Granite	Country Rock	68.26	0.55	14.82	3.63	0.020	1.12	1.80	3.55	4.34	0.18	0.14	1.13	99.54	4.20	3.9	4.5	64	0.1	6.2	6.4	228	1.93	0.8	0.4	0.3	13.0	13	0.1	0.2	0.1	31	0.47	0.076	48	53.1	0.60	38	0.104	4	0.61	0.016	0.16	0.05	0.01	2.2	0.1	5	0.25
04-ARD-180-032	5034	Granite	Country Rock	70.01	0.20	15.39	1.82	0.020	1.05	1.65	3.52	4.73	0.07	0.12	0.87	99.45	2.70	7.4	1.7	50	0.1	8.4	5.1	214	1.32	0.7	0.3	1.9	8.2	8	0.1	0.1	0.1	17	0.16	0.056	33	38.4	0.80	57	0.054	2	0.72	0.014	0.30	0.1	0.01	1.3	0.1	6	0.25
04-ARD-180-033	5034	Granite	Country Rock	68.20	0.34	16.07	2.64	0.020	1.02	2.41	4.34	3.36	0.14	0.11	0.66	99.31	4.50	22.4	4.4	57	0.1	7.3	6.2	230	1.55	0.8	0.4	0.3	16.8	16	0.1	0.1	0.1	25	0.24	0.065	54	59.6	0.59	109	0.116	4	0.61	0.023	0.46	0.05	0.01	2.1	0.2	5	0.25
04-ARD-180-034	5034	Granite	Country Rock	70.16	0.23	15.67	1.87	0.020	0.73	1.99	4.11	3.88	0.09	0.12	0.68	99.55	3.90	5.7	3.2	39	0.1	4.0	3.3	178	1.07	0.5	0.3	0.3	7.9	14	0.1	0.2	0.1	16	0.19	0.045	25	54.4	0.41	43	0.069	2	0.43	0.019	0.18	0.1	0.01	1.3	0.1	4	0.25
04-ARD-180-035	5034	Granite	Country Rock	67.98	0.58	15.14	3.45	0.020	1.87	0.85	3.31	4.55	0.20	0.15	1.53	99.63	3.20	2.9	3.6	53	0.1	7.5	5.4	257	1.73	1.2	0.7	0.3	29.1	12	0.1	0.1	0.1	25	0.21	0.085	80	41.7	1.02	18	0.005	2	0.88	0.012	0.08	0.05	0.01	1.1	0.1	8	0.25
04-ARD-180-036	5034	Granite	Country Rock	69.30	0.31	15.88	2.54	0.020	0.88	2.48	4.25	3.09	0.11	0.08	0.56	99.50	3.50	6.4	5.9	60	0.1	6.7	4.9	213	1.51	1.0	0.6	1.0	27.0	11	0.1	0.3	0.1	23	0.18	0.058	47	49.1	0.53	84	0.103	3	0.59	0.018	0.45	0.05	0.01	2.1	0.2	5	0.25
04-ARD-180-037	5034	Granite	Country Rock	68.84	0.28	15.72	2.24	0.020	1.08	2.22	3.77	4.09	0.09	0.11	0.94	99.40	3.70	1.6	3.1	59	0.1	7.1	4.4	242	1.32	0.6	0.6	0.3	9.1	14	0.1	0.3	0.1	20	0.23	0.041	31	56.4	0.60	94	0.094	7	0.64	0.019	0.47	0.05	0.01	1.7	0.2	5	0.25
04-ARD-180-038	5034	Granite	Country Rock	69.51	0.31	15.68	2.28	0.010	0.88	2.32	4.36	3.14	0.07	0.07	0.76	99.39	3.90	1.4	5.2	52	0.1	6.1	3.8	205	1.32	0.6	0.6	0.3	19.7	11	0.1	0.2	0.1	17	0.22	0.040	38	56.7	0.53	54	0.107	4	0.50	0.021	0.30	0.05	0.01	1.6	0.1	5	0.25
04-ARD-180-039	5034	Granite	Country Rock	68.63	0.27	16.02	2.24	0.020	1.53	1.53	3.85	4.15	0.14	0.11	1.09	99.58	8.60	6.6	2.1	38	0.1	11.8	4.3	199	1.13	0.8	0.5	0.3	8.1	15	0.1	0.1	0.1	15	0.18	0.037	21	59.5	0.62	56	0.064	3	0.53	0.020	0.25	0.05	0.01	1.5	0.1	4	0.25
04-ARD-199-001	5034	Granite	Country Rock	69.05	0.56	14.68	3.06	0.020	1.10	1.59	3.45	4.65	0.21	0.13	0.86	99.36	3.60	5.5	5.6	57	0.1	4.2	5.1	203	1.51	0.5	0.4	0.9	12.7	8	0.1	0.4	0.1	24	0.31	0.090	55	50.0	0.68	74	0.097	4	0.69	0.015	0.36	0.05	0.01	2.3	0.2	5	0.25
04-ARD-199-007	5034	Granite	Country Rock	69.06	0.56	14.64	3.11	0.020	1.10	1.58	3.42	4.63	0.23	0.13	0.87	99.35	3.80	2.8	11.4	44	0.1	6.2	5.9	178	1.58	0.6	0.7	0.5	28.3	7	0.1	1.7	0.1	27	0.19	0.080	71	48.2	0.91	55	0.065	4	0.80	0.018	0.30	0.05	0.01	2.0	0.1	6	0.25
04-ARD-199-029	5034	Granite	Country Rock	69.91	0.23	15.38	2.52	0.010	0.43	1.75	3.75	4.71	0.12	0.14	0.52	99.47	9.10	14.0	8.8	34	0.1	4.3	3.9	165	1.46	0.6	0.5	0.6	10.8	15	0.1	0.8	0.1	20	0.20	0.055	34	106.0	0.25	57	0.052	3	0.41	0.042	0.23	0.05	0.01	1.2	0.1	4	0.25
04-ARD-199-030	5034	Granite	Country Rock	71.05	0.25	15.67	1.94	0.010	0.57	2.55	4.50	2.70	0.07	0.09	0.34	99.74	7.40	5.1	4.9	44	0.1	2.7	3.2	186	1.18	0.3	0.4	0.3	6.4	10	0.1	0.4	0.1	15	0.12	0.032	27	93.0	0.36	75	0.092	3	0.54	0.044	0.36	0.05	0.01	1.7	0.2	4	0.25
04-ARD-199-031	5034	Granite	Country Rock	70.27	0.25	15.57	2.29	0.020	0.56	2.48	4.69	2.75	0.09	0.07	0.63	99.67	9.50	4.7	14.4	46	0.1	3.7	3.5	209	1.27	0.5	8.3	0.6	5.8	13	0.1	2.0	0.1	15	0.27	0.038	18	114.8	0.32	52	0.083	1	0.54	0.060	0.33	0.1	0.01	1.9	0.2	5	0.25
04-ARD-199-032	5034	Granite	Country Rock	73.41	0.10	13.32	1.19	0.010	0.44	0.89	2.28	6.86	0.40	0.20	0.52	99.62	9.40	39.4	7.0	20	0.1	5.7	4.0	122	0.76	0.7	0.4	0.3	11.9	16	0.1	0.3	0.1	6	0.38	0.150	37	110.4	0.26	55	0.016	2	0.36	0.032	0.18	0.1	0.01	0.5	0.1	2	0.25
04-ARD-199-033	5034	Granite	Country Rock	65.62	0.49	16.15	5.75	0.050	0.94	3.10	4.88	2.06	0.20	0.05	0.27	99.56	7.50	4.0	6.1	103	0.1	6.3	7.1	355	3.29	0.5	0.4	0.3	14.0	14	0.1	0.4	0.1	51	0.27	0.087	49	106.2	0.55	145	0.163	3	0.83	0.069	0.64	0.05	0.01	3.4	0.3	9	0.25
04-ARD-199-034	5034	Granite	Country Rock	71.30	0.18	14.89	1.62	0.010	0.41	1.48	3.42	5.38	0.11	0.18	0.41	99.39	7.00	19.8	3.4	30	0.1	3.6	2.3	198	1.01	0.3	0.2	3.7	5.4	12	0.1	0.2	0.1	13	0.17	0.052	21	97.1	0.23	49	0.043	4	0.35	0.026	0.17	0.1	0.01	1.1	0.1	3	0.25
04-ARD-199-035	5034	Granite	Country Rock	69.01	0.31	16.01	2.51	0.010	1.33	1.35	4.57	3.02	0.09	0.07	1.20	99.48	6.20	9.3	2.3	42	0.1	6.0	4.4	210	1.33	0.7	0.3	0.7	5.2	9	0.1	0.2	0.1	16	0.12	0.040	28	81.7	0.76	49	0.031	5	0.76	0.038	0.22	0.05	0.01	1.3	0.1	5	0.25

Whole Rock and Bulk Metal Analysis

Sample ID	Pit	Lithology		SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P205	Ba(F)	LOI	Total	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	Ga	Se
				%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	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
04-ARD-199-036	5034	Granite	Country Rock	70.68	0.21	15.53	2.14	0.020	0.60	2.09	4.15	3.53	0.07	0.11	0.52	99.65	6.80	14.9	5.0	39	0.1	4.4	3.9	181	1.18	0.6	0.2	0.3	5.7	14	0.1	0.3	0.1	15	0.17	0.033	25	92.5	0.34	55	0.075	4	0.50	0.039	0.22	0.05	0.01	1.6	0.1	4	0.25
04-ARD-199-037	5034	Granite	Country Rock	70.08	0.25	15.60	2.32	0.010	0.77	2.02	4.11	3.55	0.09	0.10	0.63	99.53	6.50	3.3	1.7	45	0.1	4.6	3.3	185	1.36	0.6	0.1	0.3	2.0	13	0.1	0.1	0.1	19	0.15	0.042	11	91.2	0.47	62	0.061	7	0.56	0.038	0.29	0.05	0.01	1.7	0.1	4	0.25
04-ARD-199-038	5034	Granite	Country Rock	68.72	0.31	16.29	2.67	0.010	1.12	2.00	4.84	2.74	0.10	0.06	0.87	99.73	6.50	4.4	3.3	50	0.1	5.2	4.5	215	1.47	0.5	0.4	0.3	13.0	11	0.1	0.2	0.1	17	0.16	0.048	38	81.2	0.66	50	0.071	5	0.74	0.042	0.29	0.05	0.01	1.8	0.1	5	0.25
04-ARD-199-039	5034	Granite	Country Rock	70.31	0.23	15.43	1.97	0.010	0.58	2.21	3.99	3.88	0.07	0.13	0.50	99.31	5.90	8.8	3.6	42	0.1	5.4	3.1	181	1.14	0.3	0.3	0.8	6.4	15	0.1	0.1	0.1	16	0.21	0.040	23	84.5	0.36	85	0.091	3	0.54	0.035	0.34	0.05	0.01	1.7	0.2	4	0.25
04-ARD-199-040	5034	Granite	Country Rock	68.86	0.54	14.68	2.98	0.010	1.50	0.99	2.50	5.80	0.18	0.13	1.26	99.43	8.00	7.0	7.8	55	0.1	9.1	5.8	249	1.86	1.1	0.8	0.3	34.7	19	0.1	0.2	0.1	22	0.20	0.079	99	113.8	0.83	81	0.059	13	1.03	0.029	0.41	0.05	0.01	2.4	0.2	7	0.25
04-ARD-199-041	5034	Granite	Country Rock	67.77	0.46	15.09	3.52	0.020	1.25	1.55	3.21	5.13	0.20	0.14	0.91	99.25	5.80	9.0	8.4	77	0.1	7.1	5.9	296	2.07	1.1	0.7	1.0	28.0	20	0.1	0.4	0.1	28	0.28	0.082	88	81.5	0.72	118	0.114	8	0.88	0.030	0.58	0.05	0.01	2.6	0.3	7	0.25
04-ARD-199-042	5034	Granite	Country Rock	69.18	0.37	14.89	3.38	0.020	1.11	1.48	3.31	4.82	0.09	0.13	0.73	99.51	6.90	4.5	9.6	82	0.1	6.9	5.1	291	2.04	1.3	0.9	0.3	38.5	16	0.1	0.2	0.1	26	0.12	0.037	105	98.6	0.66	102	0.097	7	0.85	0.034	0.55	0.1	0.01	2.5	0.2	7	0.25
04-ARD-199-043	5034	Granite	Country Rock	68.54	0.43	15.21	2.95	0.010	1.70	0.83	3.25	5.01	0.17	0.12	1.45	99.67	6.60	7.0	7.4	42	0.1	7.2	5.5	219	1.61	1.7	1.0	0.3	41.3	14	0.1	0.3	0.1	17	0.19	0.078	114	92.1	0.97	33	0.008	4	0.91	0.031	0.15	0.05	0.01	1.2	0.1	7	0.25
04-ARD-199-044	5034	Granite	Country Rock	68.11	0.52	15.25	3.28	0.010	1.53	0.94	3.32	5.01	0.18	0.14	1.22	99.51	6.20	9.0	3.8	29	0.1	7.1	5.2	179	1.76	1.0	0.6	0.3	25.2	13	0.1	0.1	0.1	22	0.19	0.081	78	87.1	0.88	53	0.029	3	0.88	0.031	0.23	0.1	0.01	1.6	0.1	6	0.25
04-ARD-199-045	5034	Granite	Country Rock	68.47	0.34	15.26	3.38	0.010	1.10	1.71	3.57	4.32	0.15	0.10	1.02	99.43	6.80	15.3	4.8	67	0.1	11.9	5.9	286	2.06	1.3	0.5	0.3	19.6	17	0.1	0.1	0.1	25	0.23	0.059	69	96.3	0.66	69	0.075	10	0.81	0.035	0.36	0.05	0.01	2.3	0.1	7	0.25
04-ARD-199-046	5034	Granite	Country Rock	68.90	0.34	14.80	3.44	0.010	1.38	1.45	3.46	4.53	0.07	0.10	0.98	99.46	2.20	4.7	6.0	64	0.1	18.7	5.3	237	1.88	0.7	0.7	0.3	25.2	14	0.1	0.1	0.1	24	0.14	0.041	76	39.0	0.80	58	0.056	5	0.59	0.016	0.28	0.05	0.01	1.7	0.1	6	0.25
04-ARD-234-001	5034	Granite	Country Rock	70.51	0.20	15.39	1.95	0.010	1.58	0.23	4.05	4.23	0.07	0.11	1.34	99.67	5.30	1.0	1.4	19	0.1	9.6	4.1	127	1.14	0.3	0.4	0.3	7.3	6	0.1	0.1	0.1	9	0.07	0.028	16	77.2	0.87	20	0.002	1	0.80	0.029	0.10	0.05	0.01	0.4	0.1	6	0.25
04-ARD-234-003	5034	Granite	Country Rock	73.18	0.14	14.01	1.21	0.010	0.94	0.41	2.86	5.73	0.09	0.16	0.98	99.72	3.30	2.8	4.1	12	0.1	3.7	2.2	79	0.65	0.3	0.4	0.9	9.7	5	0.1	0.2	0.1	7	0.13	0.037	14	45.6	0.47	14	0.002	1	0.46	0.014	0.06	0.05	0.01	0.2	0.1	3	0.25
04-ARD-234-004	5034	Granite	Country Rock	69.80	0.25	15.77	2.19	0.010	1.08	1.32	4.44	3.49	0.09	0.11	1.14	99.69	3.30	3.6	2.3	24	0.1	6.2	3.9	159	1.17	0.3	0.6	0.3	18.2	8	0.1	0.1	0.1	13	0.23	0.045	44	48.0	0.61	14	0.021	1	0.61	0.020	0.06	0.05	0.01	0.7	0.1	5	0.25
04-ARD-234-005	5034	Granite	Country Rock	68.52	0.31	16.31	2.72	0.010	1.24	1.82	4.73	2.52	0.10	0.07	1.25	99.60	4.10	8.8	35.7	37	0.1	7.5	5.2	201	1.34	0.3	0.4	0.3	3.0	7	0.1	5.4	0.1	16	0.28	0.052	15	55.6	0.68	12	0.040	2	0.72	0.024	0.07	0.05	0.01	1.0	0.1	6	0.25
04-ARD-234-006	5034	Granite	Country Rock	68.94	0.28	15.89	2.32	0.010	2.00	1.10	4.36	3.11	0.12	0.08	1.50	99.71	3.70	1.7	1.9	41	0.1	6.0	4.3	200	1.31	0.3	0.4	0.3	11.0	7	0.1	0.1	0.1	16	0.14	0.061	40	51.0	1.08	19	0.016	5	0.95	0.023	0.12	0.05	0.01	1.0	0.1	7	0.25
04-ARD-234-007	5034	Granite	Country Rock	73.73	0.14	13.75	1.09	0.010	0.61	0.44	2.92	6.00	0.03	0.19	0.66	99.57	3.80	3.2	5.9	17	0.1	2.1	1.8	82	0.61	0.3	0.8	0.3	17.9	5	0.1	0.7	0.1	8	0.05	0.017	30	51.3	0.32	12	0.002	2	0.36	0.014	0.05	0.05	0.01	0.3	0.1	3	0.25
04-ARD-234-008	5034	Granite	Country Rock	69.94	0.28	15.53	2.15	0.020	1.24	1.80	4.42	3.08	0.07	0.08	1.08	99.69	11.10	11.2	2.8	45	0.1	5.4	4.8	198	1.16	0.3	0.5	0.5	7.2	7	0.1	0.1	0.1	15	0.27	0.041	29	41.6	0.65	28	0.066	3	0.64	0.018	0.19	0.05	0.01	1.6	0.1	5	0.25
04-ARD-234-009	5034	Granite	Country Rock	69.86	0.27	15.89	2.31	0.010	0.75	2.42	4.53	2.81	0.07	0.07	0.63	99.62	4.20	3.6	5.7	52	0.1	5.8	4.3	203	1.30	0.3	0.5	0.3	15.5	8	0.1	0.1	0.1	15	0.27	0.042	27	56.0	0.41	35	0.127	1	0.54	0.023	0.23	0.05	0.01	2.5	0.1	5	0.25
04-ARD-234-010	5034	Granite	Country Rock	69.84	0.30	15.73	2.27	0.010	0.74	2.23	4.42	2.99	0.09	0.09	0.87	99.58	3.80	8.7	2.5	44	0.1	4.3	4.1	189	1.14	0.3	0.4	0.5	5.7	9	0.1	0.1	0.1	17	0.31	0.039	18	53.5	0.38	24	0.111	1	0.51	0.020	0.13	0.05	0.01	1.5	0.1	4	0.25
04-ARD-234-011	5034	Granite	Country Rock	69.94	0.28	15.81	2.15	0.010	1.37	1.32	4.44	3.02	0.07	0.07	1.20	99.68	3.90	22.0	1.9	34	0.1	5.9	4.9	161	1.19	0.3	0.6	0.3	10.9	6	0.1	0.1	0.1	13	0.09	0.038	31	53.7	0.75	19	0.018	4	0.71	0.023	0.12	0.05	0.01	0.9	0.1	6	0.25
04-ARD-234-012	5034	Granite	Country Rock	69.36	0.28	15.85	2.19	0.010	1.46	1.58	4.05	3.50	0.09	0.10	1.19	99.66	3.20	16.6	6.8	42	0.1	6.7	4.9	194	1.26	0.3	0.4	0.9	10.3	5	0.1	0.8	0.1	17	0.12	0.039	29	47.6	0.79	45	0.051	3	0.84	0.020	0.26	0.05	0.01	1.2	0.1	6	0.25
04-ARD-234-013	5034	Granite	Country Rock	68.16	0.57	15.21	3.64	0.020	1.74	1.16	3.76	3.98	0.18	0.14	1.22	99.78	3.50	6.6	3.7	55	0.1	7.2	6.3	232	1.74	0.3	0.7	0.3	27.1	8	0.1	0.1	0.1	26	0.22	0.086	78	51.1	1.00	63	0.062	4	0.97	0.019	0.31	0.05	0.01	1.8	0.1	7	0.25
04-ARD-234-014	5034	Granite	Country Rock	68.16	0.50	15.28	3.36	0.020	1.92	1.14	4.09	3.44	0.18	0.11	1.35	99.55	3.30	6.2	2.6	57	0.1	7.9	6.0	233	1.67	0.5	0.6	0.3	20.4	10	0.1	0.1	0.1	28	0.20	0.082	77	49.8	1.05	49	0.048	2	0.95	0.020	0.24	0.05	0.01	1.6	0.1	8	0.25
04-ARD-234-015	5034	Granite	Country Rock	69.38	0.33	15.73	2.45	0.010	1.38	2.09	4.44	2.66	0.10	0.09	1.00	99.66	3.40	6.5	2.6	49	0.1	7.0	4.5	209	1.36	0.3	0.6	0.7	10.2	8	0.1	0.1	0.1	22	0.21	0.047	38	50.1	0.74	80	0.089	4	0.79	0.021	0.35	0.05	0.01	1.7	0.1	5	0.25
04-ARD-234-016	5034	Granite	Country Rock	68.90	0.31	16.01	2.63	0.010	0.95	2.73	4.46	2.77	0.10	0.08	0.72	99.67	3.50	4.8	3.0	55	0.1	11.6	4.6	218	1.44	0.6	0.4	0.7	7.1	13	0.1	0.1	0.1	21	0.31	0.045	24	53.0	0.53	80	0.135	3	0.65	0.021	0.39	0.05	0.01	2.3	0.1	5	0.25
04-ARD-234-017	5034	Granite	Country Rock	67.72	0.46	16.44	3.04	0.020	1.11	2.29	4.63	2.81	0.10	0.09	0.85	99.56	4.00	2.8	1.1	55	0.1	6.2	4.9	226	1.46	0.3	0.4	0.3	1.0	7	0.1	0.1	0.1	21	0.21	0.050	11	59.4	0.59	67	0.103	4	0.72	0.025	0.32	0.05	0.01	1.9	0.1	5	0.25
04-ARD-234-018	5034	Granite	Country Rock	70.52	0.25	15.36	1.94	0.010	0.62	1.86	4.07	3.96	0.07	0.12	0.80	99.58	4.10	8.2	4.7	40	0.1	5.3	3.8	178	1.05	0.3	0.4	0.3	7.4	9	0.1	0.2	0.1	13	0.30	0.033	19	55.3	0.35	33	0.094	1	0.48	0.020	0.18	0.05	0.01	1.8	0.1	4	0.25
04-ARD-234-019	5034	Granite	Country Rock	68.73	0.18	16.42	1.97	0.010	0.69	1.45	4.15	4.88	0.05	0.12	0.83	99.48	2.80	4.9	9.2	31	0.1	4.4	2.7	132	0.98	0.3	0.6	0.3	22.5	7	0.1	0.7	0.1	13	0.17	0.018	37	42.3	0.36	27	0.043	4	0.42	0.018	0.16	0.05	0.01	1.1	0.1	4	0.25
04-ARD-234-020	5034	Granite	Country Rock	68.12	0.34	16.34	2.69	0.010	1.09	2.50	4.57	2.96	0.10	0.11	0.93	99.76	2.70	11.7	4.9	57	0.1	13.5	6.0	234	1.39	0.3	0.3	0.3	10.2	16	0.1	0.1	0.1	19	0.37	0.055	37	39.4	0.60	105	0.124	4	0.66	0.021	0.35	0.05	0.01	1.9	0.2	5	0.25
04-ARD-234-021	5034	Granite	Country Rock	69.83	0.28	15.36	2.32	0.010	1.01	2.40	3.90	3.52	0.10	0.11	0.79	99.63	3.60	13.6	2.8	48	0.1	11.5	4.4	207	1.38	0.3	0.3	0.8	6.2	15	0.1	0.1	0.1	23	0.31	0.050	24	54.6	0.57	77	0.119	8	0.62	0.023	0.42	0.05	0.01	2.1	0.2	5	0.25
04-ARD-234-022	5034	Granite	Country Rock	69.43	0.28	15.52	2.17	0.010	1.28	2.17	4.17	3.31	0.09	0.08	1.09	99.60	2.90	13.2	4.3	44	0.1	18.0	5.4	215	1.19	0.3	0.3	0.3	6.6	17	0.1	0.3	0.1	17	0.30	0.037	27	45.2	0.71	64	0.085	23	0.65	0.022	0.32	0.05	0.01	1.9	0.1	4	0.25
04-ARD-234-042	5034	Granite	Country Rock	67.37	0.34	16.75	2.79	0.010	1.28	2.98	4.65	2.46	0.11	0.08	0.91	99.73	2.80	2.1	4.1	63	0.1	12.6	6.6	309	1.61	0.3	0.3	0.7	9.5	28	0.1	0.2	0.1	26	0.38	0.062	41	43.3	0.71	239	0.155	6	0.77	0.023	0.37	0.05	0.01	2.3	0.1	6	0.25
04-ARD-234-043	5034	Granite	Country Rock	68.58	0.52	14.81	3.20	0.010	1.69	1.40	3.24	4.76	0.18	0.18	1.11	99.68	3.90	15.7	4.0	61	0.1	10.8	6.5	253	1.91	0.6	0.5	0.6	21.5	18	0.1	0.1	0.1	30	0.30	0.091	78	52.7	0.96	105	0.096	3	0.91	0.021	0.41	0.05	0.01	2.0	0.2	6	0.25
04-ARD-234-044	5034	Granite	Country Rock	71.61	0.30	14.25	2.21	0.010	0.92	1.45	3.16	4.73	0.10	0.18	0.75	99.67	3.60	17.3	2.8	48	0.1	9.7	5.3	221	1.21	0.6	0.3	0.3	6.3	16	0.1	0.2	0.1	18	0.23	0.050	27	47.5	0.51	77	0.095	2	0.56	0.019	0.28	0.05	0.01	1.7	0.1	4	0.25
04-ARD-234-045	5034	Granite	Country Rock	64.30	0.40	18.04	3.22	0.030	1.46	3.06	5.05	3.02	0.38	0.08	0.81	99.85	2.50	15.1	3.3	75	0.1	12.6	7.8	378	1.88	4.0	0.4	0.3	6.8	15	0.1	0.3	0.1	24	0.48	0.157	31	37.7	0.80	104	0.183	3	0.96	0.023	0.56	0.05	0.01	3.7	0.2	7	0.25
04-ARD-234-046	5034	Granite	Country Rock	68.66	0.33	16.02	2.53	0.010	1.12	2.34	4.28	3.19	0.10	0.13	0.85	99.56	2.60	5.1	5.4	55	0.1	12.4	5.9	260	1.42	0.3	0.4	0.6	6.4	15	0.1	0.5	0.1	23	0.30	0.049	36	40.2	0.66	95	0.123	3	0.67	0.022	0.31	0.05	0.01	2.1	0.1	5	0.25
04-ARD-234-047	5034	Granite	Country Rock	68.44	0.54	15.01	3.28	0.010	1.88	0.95	3.47	4.46	0.15	0.16	1.32	99.67	2.40	6.3	4.1	56	0.1	12.5	7.0	251	1.72	0.7	0.5	0.3	26.2	11	0.1	0.1	0.1	25	0.21	0.070	78	36.5	1.08	44	0.032	2	0.90	0.018	0.16	0.05	0.01	1.3	0.1	7	0.25
04-ARD-234-048	5034	Granite	Country Rock	69.58	0.25	14.51	4.32	0.010	0.49	1.70	3.48	4.40	0.23	0.17	0.58	99.72	3.50	7.5	1.5	42	0.1	8.3	3.7	115	2.23	0.3	0.3	0.3	0.9	11	0.1	0.1	0.1	40	0.30	0.068	9	45.9	0.26	29	0.023	3	0.27	0.019	0.08	0.05	0.01	0.6	0.1	5	0.25
04-ARD-234-049	5034	Granite	Country Rock	66.97	0.30	17.04	2.48	0.010	1.12	2.68	4.86	2.97	0.20	0.08	0.91	99.62	3.50	15.0	4.0	56	0.1	9.3	5.3	266	1.43	0.3	0.4	0.3	10.9	10	0.1	0.1	0.1	17	0.40	0.091	29	47.4	0.59	56	0.112	3	0.71	0.020	0.29	0.1	0.01	2.0	0.1	5	0.25
04-ARD-234-050	5034	Granite	Country Rock	69.48	0.30	15.81	2.46	0.010	0.98	2.54	4.28	3.04	0.10	0.08	0.58	99.66	3.70	1.6	4.4	59	0.1	9.2	4.8	246	1.42	0.6	0.6	0.3	13.3	9	0.1	0.1	0.1	21	0.20	0.044	35	49.6	0.55	86	0.127	3	0.70	0.023	0.45	0.05	0.01	2.5	0.2	5	0.25
04-ARD-234-051	5034	Granite	Country Rock	70.05	0.28	15.61	2.17	0.010	0.79	2.58	4.19	3.26	0.09	0.12	0.49	99.64	2.70	1.2	5.7	47	0.1	7.6	3.6	200	1.20	0.5	0.3	0.5	9.9	7	0.1	0.5	0.1	16	0.22	0.035	35	38.1	0.41	81	0.108	1	0.57	0.015	0.34	0.05	0.01	1.6	0.1	4	0.25
06-ARD-256-001	5034	Granite	Country Rock	69.77	0.47	14.54	3.27	0.04	1.28	1.17	3.42	4.62	0.20	0.12	1.02	99.92	6.7	11.3	5.3	70	0.05	7.4	6	247	1.91	1.4	0.6	1.3	16.4	9	0.1	0.05	0.1	21	0.19	0.076	63	102	0.68	74	0.068	5	0.85	0.042	0.42	0.05	0.005	2.2	0.2	6	0.25
06-ARD-256-002	5034	Granite	Country Rock	70.38	0.42	14.45	3.11	0.04	0.81	1.43	3.34	4.86	0.25	0.13	0.75	99.97	10	7.4	9.4	63	0.05	7	5.5	206	1.94	1.6	0.9	0.25	22.9	15	0.05	0.05	0.05	20	0.21	0.071	78	140	0.44	86	0.069	0.5	0.71	0.053	0.39	0.05	0.005	2.1	0.2	6	0.25
06-ARD-256-003	5034	Granite	Country Rock	69.55	0.36	14.76	3.06	0.03	1.01	1.38	3.48	4.90	0.14	0.12	0.75	99.54	10.1	12.1	9.4	62	0.05	7.3	5.8	245	1.89	1.2	1	1	28.2	18	0.05	0.1	0.05	21	0.17	0.058	80	162	0.52	100	0.08	6	0.86	0.076	0.55	0.05	0.005	2.2	0.3	7	0.25
06-ARD-256-004	5034	Granite	Country Rock	70.32	0.35	14.76	2.28	0.03	1.10	1.56	3.33	5.17	0.26	0.12	0.67	99.95	11.3	6.2	10.1	62	0.05	6.9	6.2	223	1.41	1.3	1	2.4	31.2	21	0.1	0.05	0.1	13	0.25	0.102	73	157	0.59	126	0.109	0.5	0.92	0.085	0.72	0.1	0.01	2.9	0.4	5	0.25
06-ARD-256-005	5034	Granite	Country Rock	70.45	0.37	14.43	2.83	0.03	0.92	1.33	3.27	5.10	0.17	0.12	0.75	99.77	7.6	5.8	10.9	61	0.05	6.9	5.4	197	1.72	1.1	1.3	1.6	43.7	14	0.1	0.05	0.05	18	0.19	0.07	71	115	0.49	74	0.061	12	0.72	0.048	0.41	0.1	0.01	2	0.2	6	0.25
06-ARD-256-006	5034	Granite	Country Rock	71.35	0.29	14.29	1.71	0.02	0.94	1.24	3.03	5.79	0.24	0.13	0.63	99.66	10.4	6.8	10.8	47	0.05	6.1	4.3	189	1.09	0.9	0.8	2.3	34.2	18	0.05	0.05	0.05	13	0.23	0.101	53	137	0.52	93	0.073	2	0.71	0.052	0.5	0.05	0.005	2.2	0.2	4	0.25
06-ARD-256-007	5034	Granite	Country Rock	69.03	0.51	14.96	2.89	0.03	1.21	1.86	3.70	4.34	0.25	0.10	0.85	99.73	9	9.7	16	71	0.05	8.1	6.8	252	1.8	1.6	1.3	0.25	63.5	13	0.05	0.05	0.05	24	0.35	0.106	87	134	0.66	111	0.133	3	0.99	0.07	0.7	0.05	0.005	3.4	0.4	6	0.25
06-ARD-256-008	5034	Granite	Country Rock	69.45	0.60	14.32	2.25	0.02	1.61	0.76	2.00	6.75	0.42	0.13	1.39	99.70	7.9	4.2	6.3	31	0.05	7.2	4.6	153	1.31	1.4	1.1	0.25	43.1	10	0.05	0.1	0.05	17	0.32	0.163	64	124	0.79	36	0.007	10	0.91	0.026	0.25	0.05	0.005	1.3	0.1	5	0.25
06-ARD-256-009	5034	Granite	Country Rock	69.38	0.51	15.05	2.61	0.02	1.78	0.96	4.11	3.50	0.17	0.07	1.37	99.53	6.9	6.8	5.9	44	0.05	8.2	5.3	192	1.61	1.5	1	0.25	59.8	9	0.05	0.1	0.05	24	0.15	0.069	87	105	0.94	30	0.015	0.5	0.99	0.045	0.19	0.05	0.005	1.9	0.1	6	0.25
06-ARD-256-010	5034	Granite	Country Rock	72.22	0.19	13.85	1.21	0.02	0.74	0.68	2.41	7.12	0.31	0.16	0.72	99.63	10.1	8.8	4.4	25	0.05	6.2	2.1	105	0.76	0.6	0.3	0.25	14.6	12	0.05	0.1	0.05	8	0.22	0.106	31	135	0.39	62	0.01	0.5	0.52	0.041	0.25	0.05	0.005	0.9	0.1	3	0.25
06-ARD-256-011	5034	Granite	Country Rock	72.40	0.29	14.16	2.05	0.03	0.93	1.37	3.64	4.05	0.06	0.07	0.83	99.88	11.2	4.6	9.8	46	0.05	7.3	4.4	177	1.33	1	1.2	0.25	43	14	0.05	0.1	0.05	13	0.12	0.024	62	161	0.52	69	0.068	15	0.78	0.07	0.44	0.05	0.005	2.3	0.3	5	0.25
06-ARD-256-012	5034	Granite	Country Rock	69.50	0.37	14.64	2.22	0.03	0.92	1.18	2.73	6.95	0.40	0.16	0.64	99.74	10.2	6.7	7.3	53	0.05	4.6	5.3	222	1.43	0.8	1.2	0.25	17.2	16	0.05	0.1	0.05	20	0.38	0.172	37	144	0.53	102	0.092	0.5	0.79	0.055	0.59	0.1	0.005	2.6	0.3	5	0.25
06-ARD-256-013	5034	Granite	Country Rock	70.13	0.31	14.32	1.74	0.02	0.67	1.02	2.24	8.05	0.38	0.19	0.71	99.78	9.6	2.9	6.3	35	0.05	5.5	3.8	157	1.09	0.25	0.8	0.25	10.6	20	0.05	0.1	0.05	13	0.46	0.149	24	121	0.37	67	0.068	2	0.55	0.036	0.25	0.05	0.005	1.7	0.1	4	0.25
06-ARD-256-014	5034	Granite	Country Rock	69.45	0.45	14.42	3.14	0.02	0.98	1.37	3.03	5.34	0.19	0.14	1.03	99.56	7.5	3.6	14.5	52	0.05	6	5.2	181	1.69	0.9	0.8	0.25	44.1	13	0.1	0.6	0.05	18	0.25	0.065	63	113	0.41	61	0.076	4	0.63	0.042	0.25	0.05	0.005	1.7	0.1	5	0.25
06-ARD-256-015	5034	Granite	Country Rock	70.66	0.37	14.42	2.61	0.02	0.73	1.16	3.19	5.38	0.15	0.13	0.80	99.62	8.8	4.5	11.2	68	0.05	7.6	5.8	178	1.95	1.2	0.7	0.25	30.9	16	0.05	0.05	0.05	24	0.37	0.083	66	129	0.54	73	0.087	3	0.75	0.046	0.32	0.1	0.005	2	0.1	6	0.25
06-ARD-256-016	5034	Granite	Country Rock	70.04	0.38	14.56	2.65	0.02	1.16	1.14	2.88	5.79	0.18	0.12	0.92	99.84	8	4.9	10.7	48	0.05	6.6	5.4	166	1.69	1.2	4.3	1.3	50.4	13	0.05	0.1	0.05	21	0.2	0.074	72	112	0.66	71	0.054	7	0.76	0.046	0.39	0.05	0.005	2.1	0.2	6	0.25
06-ARD-256-017	5034	Granite	Country Rock	70.03	0.41	14.52	2.99	0.02	0.72	1.77	3.23	5.09	0.17	0.13	0.62	99.70	7.9	5.1	21.1	56	0.05	6.7	5.6	149	1.87	1.3	1.2	0.25	67.2	12	0.05	0.1	0.05	23	0.36	0.085	77	103	0.43	77	0.116	0.5	0.68	0.043	0.47	0.05	0.005	2.5	0.3	5	0.25
06-ARD-258-001	5034	Granite	Country Rock	64.89	0.33	15.81	2.09	0.02	1.48	0.32	0.18	8.73	0.18	0.09	5.40	99.52	5.2	3	8.7	136	0.05	7.7	4.5	163	1.19	0.5	0.4	0.6	20	14	0.1	0.05	0.05	15	0.18	0.07	41	80	0.68	43	0.024	42	1.27	0.005	0.46	0.05	0.005	1.2	0.1	7	0.25
06-ARD-258-002	5034	Granite	Country Rock	68.32	0.27	15.36	1.66	0.01	1.17	0.30	0.20	9.67	0.12	0.07	2.32	99.47	7.3	2.6	25	47	0.05	8.1	4.2	155	1.01	0.5	0.5	0.25	8.9	17	0.05	0.05	0.05	13	0.16	0.05	32	107	0.53	43	0.027	54	0.97	0.007	0.59	0.05	0.005	1.5	0.2	6	0.25
06-ARD-258-003	5034	Granite	Country Rock	67.77	0.40	14.94	2.32	0.03	1.34	0.77	1.17	8.83	0.38	0.16	1.45	99.56	9.5	8.1	31.3	60	0.05	9.3	4.9	205	1.46	0.6	0.6	0.9	15.7	14	0.05	0.05	0.05	23	0.31	0.165	38	131	0.7	87	0.079	41	1.05	0.017	0.66	0.1	0.005	2	0.3	7	0.25
06-ARD-258-004	5034	Granite	Country Rock	68.38	0.27	15.03	1.77	0.02	1.03	0.89	1.55	7.32	0.10	0.08	3.14	99.58	6.2	2.6	4.9	43	0.05	8.1	3.9	168	1.1	0.5	0.3	1	8.6	18	0.05	0.05	0.05	17	0.12	0.043	22	103	0.5	65	0.055	54	1.04	0.015	0.56	0.1	0.005	1.5	0.2	6	0.25
06-ARD-258-005	5034	Granite	Country Rock	69.30	0.40	14.32	1.80	0.02	1.17	0.26	0.21	10.10	0.16	0.12	1.46	99.32	5	5.4	6.9	51	0.1	8.5	5	141	1.07	1	0.6	1.5	26.9	9	0.05	0.05	0.05	21	0.14	0.067	55	80	0.57	50	0.038	34	0.76	0.007	0.49	0.2	0.005	1.6	0.2	6	0.25
06-ARD-258-006	5034	Granite	Country Rock	68.44	0.38	14.41	2.41	0.02	1.55	0.39	0.65	9.10	0.26	0.14	1.60	99.35	5.1	1.7	6.6	54	0.05	9.6	5.4	180	1.48	0.6	0.5	1.8	26.8	9	0.05	0.05	0.05	23	0.17	0.08	47	78	0.85	65	0.055	39	1.07	0.01	0.54	0.1	0.005	1.9	0.2	7	0.25
06-ARD-258-007	5034	Granite	Country Rock	68.66	0.47	14.68	2.74	0.03	1.26	0.81	1.96	7.20	0.20	0.13	1.29	99.43	8.5	5.6	5.9	66	0.05	9.7	5.5	187	1.69	0.8	1	0.25	22.7	11	0.05	0.05	0.05	22	0.18	0.083	52	128	0.68	73	0.056	25	0.93	0.021	0.51	0.1	0.005	1.9	0.2	6	0.25
06-ARD-258-008	5034	Granite	Country Rock	66.84	0.30	15.04	2.21	0.03	1.76	0.59	0.64	9.09	0.19	0.08	2.90	99.67	5.3	6.3	2.8	52	0.05	15.2	5.4	233	1.39	0.25	0.3	2.6	5.5	12	0.05	0.05	0.05	26	0.2	0.079	24	94	0.93	77	0.082	50	1.3	0.008	0.76	0.2	0.005	1.9	0.3	7	0.25
06-ARD-258-009	5034	Granite	Country Rock	67.68	0.28	14.66	2.35	0.02	1.58	0.97	1.48	7.49	0.13	0.08	2.77	99.49	7.2	4.2	3.7	49	0.1	15.4	5.4	202	1.5	0.25	0.3	1.2	8.2	12	0.05	0.05	0.05	21	0.14	0.058	26	117	0.83	90	0.078	49	1.16	0.014	0.72	0.4	0.005	1.5	0.2	7	0.25
06-ARD-258-010	5034	Granite	Country Rock	67.24	0.49	14.67	2.35	0.02	1.70	0.43	0.35	10.36	0.29	0.16	1.45	99.51	7.4	9.4	6.8	48	0.05	17.1	6.5	182	1.42	0.9	0.6	1.6	11.4	13	0.05	0.05	0.05	21	0.23	0.111	40	119	0.86	87	0.072	20	1.02	0.009	0.58	0.2	0.005	2.2	0.3	6	0.25
06-ARD-258-011	5034	Granite	Country Rock	63.38	0.29	16.80	2.10	0.03	1.51	0.33	0.15	13.07	0.20	0.11	1.48	99.45	3.1	6.3	4.7	42	0.3	20.5	5.4	199	1.29	0.8	0.8	2.3	9.8	15	0.05	0.05	0.05	19	0.19	0.077	46	48	0.77	69	0.066	12	0.85	0.006	0.59	1	0.005	1.6	0.2	6	0.25
06-ARD-258-012	5034	Granite	Country Rock	69.62	0.30	15.49	2.08	0.02	0.90	2.06	3.60	4.53	0.10	0.10	0.66	99.46	9.9	4.8	4	47	0.05	12	5.1	175	1.33	0.25	0.4	0.25	9.5	21	0.05	0.05	0.05	19	0.14	0.049	24	143	0.52	132	0.097	24	0.75	0.054	0.58	0.1	0.005	1.8	0.2	5	0.25
06-ARD-258-013	5034	Granite	Country Rock	70.54	0.18	12.38	2.34	0.02	2.39	1.39	1.60	6.07	0.05	0.04	2.54	99.54	9.2	47.4	1.7	19	0.05	19.1	4.2	203	1.52	0.7	1.7	0.25	23.6	7	0.05	0.05	0.05	13	0.87	0.016	33	131	1.33	12	0.002	2	1.2	0.019	0.14	0.05	0.005	1.1	0.05	7	0.25
06-ARD-258-014	5034	Granite	Country Rock	73.45	0.20	13.50	1.41	0.01	0.97	0.21	2.65	6.01	0.03	0.06	1.04	99.54	9.6	38.6	3.4	12	0.05	5.3	2.7	89	0.81	0.9	1.5	2.4	44.4	7	0.05	0.1	0.05	6	0.07	0.013	52	132	0.48	14	0.002	5	0.57	0.035	0.17	0.05	0.005	0.5	0.05	4	0.25
06-ARD-260-001	5034	Granite	Country Rock	72.16	0.30	13.92	2.47	0.02	0.63	1.31	3.39	4.68	0.11	0.08	0.50	99.57	9.5	4	10.3	44	0.05	5.9	4	165	1.55	0.6	1.3	2.1	37.7	6	0.05	0.05	0.05	15	0.12	0.045	52	121	0.36	46	0.093	1	0.6	0.046	0.41	0.05	0.005	2.3	0.2	5	0.25
06-ARD-260-002	5034	Granite	Country Rock	71.08	0.36	14.45	2.72	0.02	0.58	1.70	3.52	4.51	0.13	0.08	0.42	99.57	9	3.4	13.4	47	0.05	6	4.5	161	1.7	0.8	1.1	2.2	45.1	6	0.05	0.1	0.05	16	0.14	0.047	55	119	0.35	56	0.111	5	0.66	0.05	0.42	0.05	0.005	2.1	0.2	5	0.25
06-ARD-260-003	5034	Granite	Country Rock	71.84	0.30	14.28	2.41	0.02	0.47	1.66	3.65	4.45	0.10	0.09	0.32	99.59	8.7	2.5	12.3	47	0.05	5.7	3.9	123	1.47	0.8	1.2	3.7	38.9	5	0.05	0.1	0.05	12	0.11	0.035	54	112	0.28	48	0.093	4	0.52	0.05	0.4	0.05	0.005	2	0.3	5	0.25
06-ARD-260-004	5034	Granite	Country Rock	70.28	0.21	14.94	1.62	0.02	0.75	0.52	2.85	7.28	0.27	0.12	0.74	99.60	8.3	4.4	6.9	27	0.05	4.8	2.9	125	1.04	0.6	0.9	1.6	33.8	9	0.05	0.05	0.05	8	0.15	0.075	48	117	0.42	31	0.006	2	0.56	0.039	0.18	0.2	0.005	1	0.05	4	0.25
06-ARD-260-005	5034	Granite	Country Rock	73.67	0.17	13.61	1.52	0.02	0.33	1.14	3.43	5.07	0.10	0.08	0.41	99.55	8.5	1.5	8.6	26	0.05	3.4	2	118	0.96	1	2.9	1.6	25.7	7	0.05	0.05	0.05	9	0.1	0.011	35	111	0.2	28	0.041	2	0.36	0.04	0.21	0.05	0.005	1.1	0.1	4	0.25
06-ARD-260-006	5034	Granite	Country Rock	73.88	0.18	13.58	1.58	0.01	0.34	1.23	3.38	4.88	0.06	0.08	0.38	99.58	11.1	6.7	11.1	28	0.05	5.1	2.7	131	1.02	1	5.1	0.6	31.7	8	0.05	0.05	0.05	9	0.1	0.012	46	144	0.21	36	0.044	2	0.39	0.053	0.27	0.05	0.005	1.3	0.1	3	0.5
06-ARD-260-007	5034	Granite	Country Rock	71.20	0.24	14.77	1.88	0.03	0.52	1.51	3.73	5.00	0.06	0.08	0.45	99.47	9.3	5.9	14.7	39	0.05	5.6	3.6	130	1.2	1	1.7	3	43.5	9	0.05	0.05	0.05	10	0.12	0.014	56	118	0.31	42	0.092	0.5	0.55	0.05	0.4	0.05	0.005	2	0.2	4	0.25
06-ARD-260-008	5034	Granite	Country Rock	71.54	0.24	14.46	2.63	0.02	0.40	1.59	3.87	4.36	0.05	0.07	0.31	99.54	9.4	5.8	12.7	42	0.05	4.9	3.4	145	1.68	1	2.1	4.4	37.1	7	0.05	0.05	0.05	18	0.08	0.012	54	132	0.25	38	0.074	0.5	0.49	0.058	0.35	0.05	0.005	1.7	0.2	6	0.25
06-ARD-260-009	5034	Granite	Country Rock	72.65	0.19	14.09	1.78	0.02	0.42	1.30	3.33	5.18	0.06	0.08	0.34	99.44	9.1	2.6	9.4	35	0.05	5.1	3.1	122	1.21	0.6	1.3	1.6	35.3	7	0.05	0.05	0.05	12	0.06	0.013	47	122	0.26	37	0.075	8	0.47	0.044	0.36	0.05	0.005	1.8	0.2	4	0.25
06-ARD-260-010	5034	Granite	Country Rock	73.33	0.18	13.78	1.53	0.01	0.34	1.23	3.26	5.37	0.06	0.09	0.39	99.57	10.6	3.3	9.2	30	0.05	5.2	2.7	109	1.02	0.5	2.6	2.6	25.3	8	0.05	0.05	0.05	13	0.12	0.012	35	147	0.21	37	0.074	0.5	0.43	0.047	0.32	0.05	0.005	1.6	0.1	3	0.25
06-ARD-260-011	5034	Granite	Country Rock	68.59	0.33	15.84	3.01	0.02	0.65	2.05	4.40	3.96	0.07	0.07	0.54	99.53	10.8	7.3	18.8	55	0.05	7.4	4.7	187	1.9	1.4	2.2	2	62.4	10	0.05	0.05	0.05	19	0.16	0.016	86	138	0.39	52	0.131	2	0.75	0.073	0.52	0.05	0.005	2.8	0.3	6	0.25
06-ARD-260-012	5034	Granite	Country Rock	71.72	0.25	14.46	1.95	0.02	0.62	0.98	3.23	5.95	0.09	0.10	0.51	99.88	7.8	3.9	7.5	38	0.05	5.4	3.5	131	1.24	0.9	1.3	0.25	29.9	5	0.05	0.05	0.05	13	0.05	0.009	43	100	0.33	37	0.065	3	0.53	0.036	0.35	0.05	0.005	1.8	0.2	5	0.25
06-ARD-260-013	5034	Granite	Country Rock	73.19	0.20	13.80	1.75	0.01	0.39	1.30	3.44	4.89	0.05	0.09	0.43	99.54	12.2	6.1	12.7	34	0.05	5.8	3.2	116	1.13	0.7	1.2	2.7	35.6	10	0.05	0.05	0.05	12	0.11	0.011	48	171	0.23	45	0.075	0.5	0.49	0.065	0.34	0.1	0.005	1.6	0.1	4	0.25
06-ARD-260-014	5034	Granite	Country Rock	73.08	0.20	13.78	1.77	0.01	0.52	0.97	3.15	5.47	0.12	0.09	0.54	99.70	12.3	5.3	10.9	35	0.05	5.2	3.1	160	1.13	0.8	1.4	1.1	36.1	9	0.05	0.1	0.05	12	0.08	0.011	49	116	0.29	28	0.05	3	0.45	0.039	0.22	0.05	0.005	1.2	0.1	4	0.25
06-ARD-260-015	5034	Granite	Country Rock	72.18	0.18	13.90	1.66	0.02	1.14	0.14	3.38	5.75	0.05	0.08	0.98	99.46	9.9	5	6.9	22	0.05	5.5	2.6	116	1	0.9	0.5	2.5	38.4	8	0.05	0.2	0.05	8	0.04	0.018	65	132	0.59	24	0.002	0.5	0.64	0.046	0.15	0.1	0.005	0.7	0.05	5	0.25
06-ARD-260-016	5034	Granite	Country Rock	74.88	0.15	13.38	1.21	0.01	0.47	0.81	3.35	4.90	0.05	0.07	0.54	99.82	10	2.7	5.2	24	0.05	5.2	2.9	98	0.78	0.5	2.1	0.25	16.2	5	0.05	0.05	0.05	5	0.04	0.008	26	142	0.26	24	0.014	3	0.41	0.049	0.17	0.05	0.005	0.7	0.05	3	0.25
06-ARD-260-017	5034	Granite	Country Rock	72.34	0.21	13.30	2.97	0.01	0.60	1.08	3.16	5.01	0.05	0.08	0.75	99.56	8.6	4.4	7.2	36	0.05	4.8	3.2	113	1.82	0.6	1.1	0.25	30	7	0.05	0.1	0.05	15	0.14	0.012	43	114	0.33	27	0.03	4	0.44	0.036	0.23	0.05	0.005	1	0.1	7	0.25
06-ARD-260-018	5034	Granite	Country Rock	70.67	0.24	14.87	2.45	0.02	0.56	1.74	3.75	4.70	0.10	0.09	0.52	99.71	8	7.6	11.8	48	0.05	5.6	4.2	147	1.5	0.7	1.2	0.25	32.5	10	0.05	0.05	0.05	14	0.2	0.028	50	112	0.31	41	0.103	0.5	0.54	0.048	0.34	0.05	0.005	1.7	0.1	5	0.25
06-ARD-260-019	5034	Granite	Country Rock	69.10	0.27	15.26	4.03	0.03	0.41	1.95	4.22	4.00	0.08	0.07	0.33	99.75	7.7	4.4	15.3	54	0.05	4.5	3.8	146	2.36	1.2	1.7	0.25	49	7	0.05	0.1	0.05	32	0.11	0.017	73	97	0.22	30	0.084	3	0.42	0.051	0.25	0.05	0.005	1.6	0.1	8	0.25
06-ARD-260-020	5034	Granite	Country Rock	71.28	0.24	14.50	3.02	0.02	0.54	1.92	4.28	3.18	0.07	0.05	0.57	99.67	8.5	6.2	13.4	52	0.05	7.6	4	142	1.9	0.5	1.5	1.8	47.5	14	0.05	0.05	0.05	23	0.2	0.017	63	121	0.31	24	0.091	5	0.51	0.057	0.19	0.05	0.005	1.4	0.1	6	0.25
06-ARD-260-021	5034	Granite	Country Rock	67.88	0.35	16.48	3.00	0.03	0.82	3.05	5.12	2.16	0.16	0.03	0.69	99.77	7.8	26.9	8.4	64	0.05	9	6.5	220	1.94	0.5	1.1	0.25	18.2	8	0.05	0.05	0.05	14	0.41	0.074	35	102	0.48	47	0.189	4	0.84	0.063	0.56	0.05	0.005	3.2	0.3	7	0.25
06-ARD-260-022	5034	Granite	Country Rock	72.57	0.23	13.90	2.40	0.02	0.37	1.52	3.49	4.60	0.07	0.08	0.31	99.56	8.8	3.5	11.1	48	0.05	5.4	3.3	127	1.59	0.5	1.2	0.8	33.8	7	0.05	0.05	0.05	12	0.13	0.025	45	122	0.23	30	0.094	0.5	0.43	0.049	0.27	0.05	0.005	1.7	0.1	5	0.25
06-ARD-260-023	5034	Granite	Country Rock	69.78	0.35	14.96	2.81	0.03	0.79	1.66	4.09	4.21	0.08	0.07	0.86	99.69	7.7	6.2	20.2	63	0.05	6.6	4.9	212	1.77	1	2.5	0.25	57.3	16	0.05	0.1	0.05	18	0.36	0.026	73	103	0.46	31	0.135	4	0.7	0.05	0.27	0.05	0.005	2.7	0.1	6	0.25
06-ARD-260-024	5034	Granite	Country Rock	73.06	0.15	14.34	1.56	0.01	0.29	1.80	4.05	3.84	0.04	0.07	0.34	99.55	10.5	4.3	7.7	30	0.05	5.7	2.5	112	1.04	0.7	1.1	1.2	22.7	10	0.05	0.05	0.05	12	0.11	0.008	34	150	0.18	33	0.057	1	0.4	0.065	0.25	0.05	0.005	1.3	0.1	4	0.25
06-ARD-260-025	5034	Granite	Country Rock	70.11	0.28	14.89	3.15	0.03	0.73	1.82	4.01	3.84	0.11	0.07	0.70	99.74	10	27.6	5.6	64	0.05	10.1	6.5	237	2.1	0.5	2	0.9	14.2	14	0.05	0.05	0.05	27	0.25	0.044	33	133	0.44	71	0.104	5	0.74	0.072	0.48	0.1	0.005	2.5	0.3	7	0.25
06-ARD-260-026	5034	Granite	Country Rock	62.91	0.35	17.86	3.66	0.04	0.91	2.09	4.05	6.86	0.50	0.14	0.61	99.98	6.1	5.1	13.5	65	0.05	7.1	5.8	280	2.4	1.5	1.9	0.25	45.1	17	0.05	0.05	0.05	25	0.52	0.204	90	85	0.48	80	0.134	3	0.8	0.057	0.58	0.05	0.005	2.9	0.2	8	0.25
06-ARD-260-027	5034	Granite	Country Rock	67.34	0.58	14.95	4.44	0.04	1.49	2.17	3.83	3.90	0.22	0.12	0.72	99.80	35.7	13.1	8.4	96	0.05	18.5	9.3	348	2.75	1	0.8	1	23	24	0.05	0.05	0.05	49	0.37	0.084	74	132	0.82	184	0.242	3	1.22	0.055	1	0.1	0.005	4.8	0.5	9	0.25
06-ARD-260-028	5034	Granite	Country Rock	64.91	0.49	15.63	4.76	0.05	2.97	2.34	4.01	3.03	0.10	0.05	1.39	99.73	24.3	231.9	3.2	92	0.05	60	24.5	383	3.07	0.7	2.9	1.4	11.1	20	0.05	0.05	0.1	68	0.26	0.037	24	162	1.61	253	0.237	9	1.67	0.065	1.29	0.1	0.005	6.5	0.6	8	0.5
06-ARD-260-029	5034	Granite	Country Rock	54.95	0.35	9.19	6.50	0.11	14.15	8.10	1.78	1.53	0.31	0.04	2.47	99.48	4	1.8	0.8	51	0.05	215.3	23.8	280	2.42	0.6	2.3	0.25	2.5	38	0.05	0.05	0.05	32	1.13	0.14	21	414	2.4	288	0.12	3	1.34	0.047	0.97	0.1	0.005	3.8	0.4	5	0.25
06-ARD-260-030	5034	Granite	Country Rock	58.86	0.55	18.10	3.75	0.06	3.72	3.32	4.38	4.87	1.09	0.13	1.08	99.91	3.3	9.3	2.1	70	0.05	104.2	13.3	410	2.35	0.7	0.9	0.25	2.3	35	0.05	0.05	0.05	32	1.03	0.413	25	175	1.84	289	0.194	8	1.71	0.06	1.44	0.05	0.005	7.3	0.6	10	0.25
06-ARD-260-031	5034	Granite	Country Rock	61.17	0.91	12.16	7.58	0.09	7.88	1.46	1.89	3.73	0.38	0.06	2.54	99.85	12.8	125.7	1.2	146	0.05	240.1	31.3	759	5.06	0.25	0.8	2.5	2.1	21	0.05	0.05	0.1	47	0.64	0.158	12	594	4.62	418	0.389	5	3.54	0.057	2.37	0.1	0.005	12.7	1.1	20	0.25
06-ARD-260-032	5034	Granite	Country Rock	69.78	0.23	15.14	2.08	0.02	1.20	1.37	3.79	4.79	0.11	0.18	0.93	99.62	6.4	10.3	1.3	36	0.05	7.4	5	185	1.27	0.25	0.4	1.6	3.4	19	0.05	0.05	0.05	17	0.21	0.047	19	93	0.64	59	0.06	4	0.71	0.043	0.2	0.1	0.01	1.2	0.1	5	0.25
06-ARD-260-033	5034	Granite	Country Rock	68.39	0.22	15.86	2.13	0.03	0.96	1.99	3.71	5.57	0.35	0.17	0.67	100.05	8.6	9.7	3.7	41	0.05	7.2	3.9	198	1.28	0.25	1.1	0.25	2.8	27	0.05	0.05	0.05	20	0.4	0.131	14	113	0.46	89	0.093	6	0.68	0.054	0.38	0.1	0.005	1.6	0.1	5	0.25
06-ARD-261-001	5034	Granite	Country Rock	69.25	0.25	15.84	2.41	0.03	1.50	0.56	4.81	3.77	0.19	0.10	1.32	100.03	5.9	3.1	0.9	34	0.05	7.2	4.8	206	1.37	0.6	0.3	0.25	9.1	9	0.05	0.05	0.05	14	0.15	0.079	33	85	0.75	21	0.002	5	0.83	0.044	0.11	0.05	0.005	0.8	0.05	6	0.25
06-ARD-261-002	5034	Granite	Country Rock	69.50	0.30	15.28	2.52	0.03	1.92	0.41	5.55	2.71	0.24	0.06	1.42	99.94	6.3	1.9	0.6	38	0.05	7.4	5.1	218	1.56	0.5	0.3	0.25	10.3	7	0.05	0.05	0.05	19	0.22	0.106	27	94	1.03	19	0.002	3	1.04	0.051	0.11	0.05	0.005	0.7	0.05	8	0.25
06-ARD-261-003	5034	Granite	Country Rock	68.35	0.33	16.24	2.56	0.02	1.65	0.56	5.34	2.87	0.14	0.05	1.57	99.68	6.7	0.9	0.9	38	0.05	8.1	5.1	196	1.41	0.7	0.3	1.1	9	9	0.05	0.05	0.05	15	0.13	0.067	48	96	0.83	19	0.003	4	0.93	0.057	0.15	0.05	0.005	0.7	0.05	7	0.25
06-ARD-261-004	5034	Granite	Country Rock	67.35	0.34	16.81	2.81	0.03	1.88	1.03	5.40	2.42	0.16	0.05	1.64	99.92	6.6	0.8	1.6	42	0.05	10.2	5.5	248	1.61	0.7	0.3	0.25	11.2	10	0.05	0.05	0.05	20	0.15	0.072	40	98	1.01	19	0.004	6	1.06	0.063	0.13	0.05	0.005	0.8	0.05	8	0.25
06-ARD-261-005	5034	Granite	Country Rock	68.02	0.34	16.60	2.83	0.03	1.23	2.15	5.07	2.52	0.18	0.07	0.90	99.94	6.9	1.8	3.5	55	0.05	8.9	5.2	266	1.65	0.7	0.5	1	11.5	19	0.05	0.05	0.05	21	0.18	0.063	41	99	0.63	70	0.08	3	0.84	0.063	0.32	0.05	0.005	1.6	0.1	6	0.25
06-ARD-261-006	5034	Granite	Country Rock	66.96	0.33	16.74	3.04	0.04	1.29	1.90	5.20	2.76	0.16	0.09	1.15	99.66	5.7	1.9	3.6	54	0.05	8.7	5.4	331	1.71	0.25	0.4	0.25	11.8	31	0.05	0.05	0.05	20	0.23	0.06	43	90	0.71	66	0.074	4	0.89	0.056	0.3	0.05	0.005	1.5	0.1	6	0.25
06-ARD-261-007	5034	Granite	Country Rock	68.75	0.31	16.34	2.57	0.03	1.07	2.12	4.84	2.90	0.13	0.07	0.74	99.87	7.2	1.8	4.3	56	0.05	7.7	5	264	1.51	0.6	0.8	0.25	15.8	16	0.05	0.05	0.05	20	0.14	0.06	44	95	0.59	80	0.089	5	0.8	0.057	0.46	0.05	0.005	1.9	0.2	6	0.25
06-ARD-261-008	5034	Granite	Country Rock	67.97	0.30	16.42	2.34	0.03	1.33	1.51	4.42	3.92	0.19	0.10	1.05	99.58	8.7	2.5	4.9	45	0.05	8.8	4.8	215	1.34	0.8	0.7	0.9	24.7	17	0.05	0.05	0.05	16	0.17	0.075	58	113	0.68	70	0.058	5	0.9	0.063	0.37	0.1	0.005	1.6	0.2	6	0.25
06-ARD-261-009	5034	Granite	Country Rock	69.44	0.26	15.58	2.14	0.02	0.65	2.42	4.26	3.78	0.23	0.16	0.44	99.38	8	1.8	4.3	43	0.05	7.1	4.5	199	1.35	0.5	0.6	1.3	9.4	26	0.05	0.05	0.05	19	0.27	0.069	32	113	0.37	112	0.095	2	0.61	0.056	0.39	0.05	0.005	1.5	0.2	4	0.25
06-ARD-261-010	5034	Granite	Country Rock	68.52	0.30	16.00	2.44	0.02	1.80	0.83	4.68	3.42	0.13	0.09	1.43	99.66	8	1.3	6.5	39	0.05	7.9	4.8	205	1.53	0.6	0.4	0.25	12.5	11	0.05	0.05	0.05	17	0.12	0.052	32	115	0.96	39	0.016	4	1.05	0.06	0.21	0.05	0.005	0.8	0.1	7	0.25
06-ARD-261-011	5034	Granite	Country Rock	67.87	0.33	16.44	2.87	0.03	1.09	2.03	4.92	3.07	0.16	0.10	1.02	99.93	8.1	2.3	3.4	51	0.05	8.4	5.3	244	1.64	0.25	0.5	1.3	10.5	39	0.05	0.05	0.05	25	0.35	0.066	37	110	0.62	51	0.116	4	0.81	0.058	0.19	0.05	0.005	1.7	0.1	6	0.25
06-ARD-261-012	5034	Granite	Country Rock	67.62	0.32	16.58	2.64	0.03	1.00	2.66	4.63	3.17	0.16	0.11	0.58	99.50	8.1	1.5	3.4	51	0.05	9.1	5.5	257	1.57	0.5	0.5	0.25	6.2	29	0.05	0.05	0.05	23	0.25	0.065	35	111	0.55	124	0.126	0.5	0.84	0.077	0.51	0.1	0.005	2.1	0.2	6	0.25
06-ARD-261-013	5034	Granite	Country Rock	68.40	0.33	15.97	2.86	0.03	1.00	2.81	4.65	2.74	0.15	0.08	0.46	99.48	8.1	8	4.1	58	0.05	12.5	5.7	285	1.8	0.25	0.4	0.25	8.4	21	0.05	0.05	0.05	32	0.28	0.062	30	112	0.56	105	0.159	0.5	0.9	0.063	0.61	0.2	0.005	2.6	0.3	6	0.25
06-ARD-261-014	5034	Granite	Country Rock	68.66	0.58	13.20	4.70	0.06	2.24	2.05	3.59	2.44	0.11	0.07	1.91	99.61	403.3	126.7	2.2	86	0.05	52.9	20.2	465	2.85	0.25	0.4	2.4	9.1	75	0.05	0.05	0.1	45	0.69	0.038	30	190	1.23	16	0.194	1	1.42	0.034	0.08	0.1	0.005	3.5	0.05	10	0.9
06-ARD-261-015	5034	Granite	Country Rock	67.12	0.43	15.27	3.82	0.04	1.17	2.55	3.86	4.01	0.48	0.13	0.62	99.50	8.6	3.4	6.8	82	0.05	8.8	6.9	334	2.38	0.8	0.6	0.25	15.3	28	0.05	0.1	0.05	34	0.6	0.21	57	108	0.64	130	0.174	0.5	0.98	0.051	0.72	0.05	0.005	3.2	0.3	8	0.25
06-ARD-261-016	5034	Granite	Country Rock	67.20	0.37	16.68	3.01	0.04	1.18	3.06	5.12	1.94	0.17	0.04	0.66	99.47	7.8	1.6	3.4	64	0.05	9.2	5.8	312	1.85	0.5	0.7	0.8	10.6	20	0.05	0.05	0.05	27	0.32	0.068	47	94	0.65	114	0.154	3	0.96	0.058	0.64	0.1	0.005	2.6	0.3	7	0.25
06-ARD-261-017	5034	Granite	Country Rock	67.49	0.37	16.65	2.95	0.03	0.99	3.34	4.95	2.00	0.14	0.06	0.47	99.44	8.6	30.7	5	62	0.05	9.9	6.7	288	1.92	0.6	0.4	0.25	9	24	0.05	0.1	0.05	29	0.3	0.062	40	111	0.58	155	0.198	2	0.96	0.081	0.68	0.05	0.005	3	0.3	6	0.25
06-ARD-261-018	5034	Granite	Country Rock	66.61	0.41	17.06	3.22	0.04	1.12	3.35	5.34	1.73	0.16	0.03	0.61	99.68	7.4	11.8	6.3	64	0.05	10.8	7.5	309	1.98	1.0	0.8	0.6	13.8	21	0.1	0.05	0.05	31	0.36	0.067	51	100	0.63	128	0.19	1	1.01	0.077	0.68	0.05	0.005	2.9	0.3	6	0.25
06-ARD-261-019	5034	Granite	Country Rock	64.36	0.39	17.59	3.95	0.05	1.23	3.61	5.49	1.78	0.49	0.03	0.84	99.81	6.4	4.3	4.4	67	0.05	9.1	6.1	315	2.38	0.7	0.6	0.25	11	23	0.05	0.05	0.05	31	0.69	0.229	38	83	0.65	72	0.142	5	0.93	0.068	0.43	0.05	0.005	2.8	0.2	7	0.25
06-ARD-261-020	5034	Granite	Country Rock	69.69	0.21	15.92	2.03	0.02	0.68	2.44	4.43	3.44	0.12	0.10	0.56	99.64	8.4	7.5	4.6	44	0.05	8.3	4.8	200	1.37	0.5	0.6	0.25	10.1	25	0.05	0.05	0.05	18	0.28	0.056	36	110	0.41	81	0.103	7	0.66	0.059	0.39	0.1	0.005	2	0.2	5	0.25
06-ARD-261-021	5034	Granite	Country Rock	68.40	0.31	16.30	2.47	0.03	0.84	2.74	4.60	3.02	0.20	0.11	0.57	99.59	6.2	1.3	7.2	50	0.05	7.6	5.2	233	1.54	0.5	0.9	0.9	9.6	24	0.05	0.05	0.05	25	0.34	0.054	39	91	0.48	104	0.134	2	0.74	0.051	0.45	0.1	0.005	2	0.2	5	0.25
06-ARD-261-022	5034	Granite	Country Rock	67.92	0.32	16.00	2.64	0.03	1.39	1.78	4.12	4.03	0.20	0.13	0.97	99.53	6.2	1.2	2.3	46	0.05	7.4	5.4	225	1.47	0.7	0.5	0.25	9.3	14	0.05	0.05	0.05	20	0.27	0.08	42	81	0.75	83	0.079	6	0.91	0.042	0.44	0.05	0.005	1.9	0.2	6	0.8
06-ARD-261-023	5034	Granite	Country Rock	69.99	0.19	15.03	1.64	0.01	1.61	0.55	2.80	5.92	0.10	0.16	1.38	99.38	6.7	2.2	0.9	22	0.05	6.2	3.2	109	0.97	0.3	0.4	0.25	1.4	10	0.05	0.05	0.1	12	0.1	0.039	12	94	0.82	37	0.017	7	0.85	0.029	0.23	0.05	0.005	0.9	0.1	5	0.25
06-ARD-261-024	5034	Granite	Country Rock	66.51	0.39	16.74	2.78	0.03	2.26	1.39	4.73	3.14	0.19	0.06	1.53	99.75	4.7	2.6	1.3	55	0.05	8.6	5.9	237	1.66	0.8	0.7	1.5	10	12	0.05	0.05	0.05	26	0.16	0.067	41	71	1.19	66	0.059	7	1.18	0.042	0.34	0.05	0.005	1.8	0.2	7	0.25
06-ARD-261-025	5034	Granite	Country Rock	71.86	0.14	14.90	1.25	0.01	0.49	1.31	3.57	5.15	0.10	0.19	0.60	99.57	7.1	2.0	3.1	20	0.05	4.2	2.4	92	0.76	0.5	0.3	0.5	3.8	15	0.05	0.2	0.1	12	0.11	0.024	19	100	0.27	42	0.024	5	0.39	0.038	0.15	0.05	0.005	0.6	0.05	3	0.25
06-ARD-261-026	5034	Granite	Country Rock	68.95	0.30	15.71	2.5	0.03	1.05	2.03	3.88	4.28	0.15	0.12	0.69	99.69	6.7	1.6	3.5	51	0.05	9.1	5.1	259	1.5	0.5	0.6	0.25	8.6	23	0.05	0.05	0.1	21	0.23	0.056	32	98	0.57	97	0.112	10	0.74	0.045	0.49	0.1	0.005	2.3	0.2	5	0.25
06-ARD-261-027	5034	Granite	Country Rock	67.26	0.32	16.50	2.50	0.03	1.13	2.29	4.56	3.69	0.14	0.11	1.02	99.55	6.0	2.9	4.4	50	0.05	7.5	5	249	1.53	0.9	0.5	0.25	9.2	32	0.05	0.05	0.05	25	0.36	0.054	42	91	0.62	118	0.101	10	0.79	0.074	0.45	0.05	0.005	1.8	0.2	6	0.25
06-ARD-261-028	5034	Granite	Country Rock	67.96	0.34	16.29	2.73	0.04	1.08	2.66	4.34	3.22	0.14	0.09	0.69	99.58	5.8	14.5	3.1	53	0.05	8.4	5.2	253	1.76	0.6	0.5	1.3	5.8	28	0.05	0.05	0.05	29	0.26	0.051	36	88	0.6	122	0.142	8	0.86	0.07	0.54	0.05	0.005	2.1	0.2	6	0.25
06-ARD-261-029	5034	Granite	Country Rock	67.05	0.29	16.59	3.17	0.03	0.81	2.89	4.77	3.14	0.27	0.07	0.48	99.56	6.2	4.6	6.7	55	0.05	6.9	4.8	230	2.05	1	0.7	0.25	20.3	24	0.05	0.05	0.05	22	0.35	0.119	47	84	0.48	80	0.128	8	0.69	0.075	0.49	0.05	0.005	2.2	0.2	7	0.25
06-ARD-261-030	5034	Granite	Country Rock	67.52	0.43	15.09	2.95	0.03	1.51	1.21	2.42	6.95	0.24	0.19	0.91	99.45	5.8	17.7	5.5	60	0.05	8.1	6.7	262	1.93	0.9	0.6	0.7	14.6	23	0.05	0.05	0.1	29	0.2	0.087	52	87	0.86	120	0.098	21	1.01	0.039	0.68	0.05	0.005	2.3	0.4	8	0.25

Whole Rock and Bulk Metal Analysis

Sample ID	Pit	Lithology		SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P205	Ba(F)	LOI	Total	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	Ga	Se
				%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	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
06-ARD-269-001	5034	Granite	Country Rock	54.63	1.15	18.15	9.40	0.08	5.55	1.18	4.03	2.86	0.12	0.03	2.69	99.89	3.8	53.5	1.6	146	0.05	95.4	24.2	649	5.17	0.25	1.0	0.6	12.7	5	0.05	0.05	0.05	114	0.04	0.012	13	200	2.63	189	0.298	2	2.83	0.030	1.29	0.05	0.005	10.0	0.7	17	0.25
06-ARD-269-002	5034	Granite	Country Rock	69.80	0.28	15.63	2.44	0.01	0.80	2.38	4.59	2.71	0.14	0.06	0.85	99.69	5.2	10.3	6.4	51	0.05	7.3	3.9	165	1.33	0.25	0.2	0.25	7.2	12	0.05	0.05	0.05	18	0.28	0.033	15	61	0.42	35	0.100	3	0.57	0.041	0.21	0.05	0.005	1.9	0.1	4	0.25
06-ARD-269-003	5034	Granite	Country Rock	70.52	0.25	15.29	2.48	0.01	0.51	2.50	4.60	2.69	0.05	0.08	0.43	99.41	6.3	7.4	4.0	46	0.05	5.2	3.6	143	1.37	0.25	0.2	0.25	7.9	12	0.05	0.1	0.05	13	0.15	0.008	16	75	0.30	41	0.086	1	0.47	0.046	0.24	0.05	0.005	1.5	0.1	3	0.25
06-ARD-269-004	5034	Granite	Country Rock	69.66	0.26	15.65	2.22	0.01	0.75	2.27	4.65	2.96	0.28	0.08	0.72	99.51	7.0	6.9	4.3	50	0.05	5.7	3.8	165	1.24	0.25	0.2	0.25	4.9	14	0.05	0.05	0.05	16	0.24	0.037	14	81	0.41	42	0.087	4	0.56	0.045	0.23	0.1	0.005	1.6	0.1	4	0.25
06-ARD-269-005	5034	Granite	Country Rock	70.56	0.24	15.35	1.98	0.01	0.58	2.32	4.58	2.97	0.12	0.10	0.54	99.36	7.0	2.6	3.5	46	0.05	4.9	3.3	139	1.11	0.25	0.3	0.25	4.9	14	0.05	0.05	0.05	15	0.21	0.030	13	86	0.34	45	0.092	2	0.47	0.048	0.20	0.1	0.005	1.4	0.1	4	0.25
06-ARD-269-006	5034	Granite	Country Rock	68.33	0.28	16.20	2.39	0.01	0.90	2.03	4.85	3.27	0.16	0.09	0.98	99.50	5.0	21.0	2.1	50	0.05	6.6	4.1	157	1.18	0.25	0.1	0.25	3.1	12	0.05	0.05	0.05	13	0.30	0.045	10	62	0.46	36	0.082	2	0.55	0.038	0.17	0.05	0.005	1.4	0.1	4	0.25
06-ARD-269-007	5034	Granite	Country Rock	69.04	0.28	15.11	2.76	0.01	0.72	1.85	3.76	4.71	0.23	0.14	0.65	99.27	5.6	2.4	10.5	56	0.05	4.9	3.6	165	1.49	0.8	0.8	0.5	31.4	14	0.05	0.05	0.05	19	0.30	0.063	47	65	0.36	50	0.077	1	0.51	0.033	0.26	0.1	0.01	1.4	0.1	4	0.25
06-ARD-269-009	5034	Granite	Country Rock	70.08	0.28	15.57	2.45	0.01	0.61	2.77	4.70	2.54	0.27	0.06	0.41	99.74	7.2	2.9	3.4	48	0.05	5.3	3.5	148	1.33	0.25	0.4	0.25	1.7	14	0.05	0.05	0.05	18	0.22	0.039	7	84	0.33	50	0.104	1	0.57	0.063	0.38	0.05	0.005	1.6	0.2	4	0.25
06-ARD-269-010	5034	Granite	Country Rock	74.76	0.13	13.30	1.36	0.01	0.37	0.92	3.01	5.42	0.03	0.11	0.01	99.45	8.2	5.4	6.4	22	0.05	2.7	1.8	81	0.78	0.25	0.5	0.25	13.8	10	0.05	0.05	0.05	5	0.06	0.008	22	89	0.21	31	0.024	3	0.33	0.032	0.15	0.05	0.005	0.6	0.1	2	0.25
06-ARD-269-011	5034	Granite	Country Rock	69.49	0.27	15.76	2.27	0.01	0.64	2.18	4.28	3.76	0.17	0.09	0.61	99.52	6.7	18.5	5.0	44	0.05	6.2	3.8	137	1.29	0.25	1.2	0.25	6.7	11	0.05	0.05	0.05	16	0.22	0.051	20	75	0.35	55	0.105	2	0.62	0.043	0.37	0.05	0.005	1.8	0.2	4	0.25
06-ARD-269-012	5034	Granite	Country Rock	73.37	0.28	13.60	1.78	0.01	0.34	1.47	3.48	4.46	0.05	0.11	0.32	99.25	7.9	2.6	8.0	35	0.05	3.8	2.9	123	1.09	0.5	0.6	0.6	21.8	6	0.05	0.05	0.05	13	0.09	0.012	36	82	0.21	51	0.094	2	0.43	0.032	0.28	0.05	0.005	1.6	0.1	3	0.25
06-ARD-269-013	5034	Granite	Country Rock	70.23	0.29	14.59	1.96	0.01	0.55	1.39	3.13	6.12	0.32	0.11	0.58	99.28	6.8	4.3	4.9	36	0.05	3.8	3.1	128	1.15	0.25	0.4	0.25	12.3	6	0.05	0.05	0.05	12	0.31	0.088	24	74	0.31	45	0.081	2	0.53	0.028	0.33	0.1	0.005	1.9	0.2	3	0.25
06-ARD-269-014	5034	Granite	Country Rock	70.98	0.31	14.39	2.43	0.01	0.59	1.38	3.44	5.02	0.37	0.09	0.68	99.70	6.8	4.3	11.4	43	0.05	4.5	3.5	128	1.37	0.7	0.7	0.9	31.8	9	0.05	0.05	0.05	14	0.19	0.045	41	80	0.33	29	0.077	1	0.52	0.029	0.18	0.05	0.005	1.4	0.1	4	0.25
06-ARD-269-015	5034	Granite	Country Rock	71.27	0.31	14.15	2.54	0.01	0.50	1.46	3.44	4.94	0.09	0.08	0.46	99.24	7.5	3.1	15.3	47	0.05	4.4	3.6	108	1.43	0.8	1.0	0.7	45.8	6	0.05	0.05	0.05	17	0.13	0.010	60	89	0.28	35	0.114	1	0.53	0.031	0.29	0.05	0.005	1.7	0.1	4	0.25
06-ARD-269-016	5034	Granite	Country Rock	75.12	0.14	13.28	1.00	0.01	0.25	1.48	3.15	4.58	0.10	0.09	0.33	99.52	6.3	0.9	4.9	15	0.05	2.4	1.4	60	0.55	0.25	0.4	0.25	14.3	5	0.05	0.05	0.05	9	0.09	0.010	21	73	0.14	25	0.046	4	0.27	0.025	0.14	0.05	0.005	0.7	0.1	2	0.25
06-ARD-269-018	5034	Granite	Country Rock	70.78	0.53	13.96	3.53	0.03	0.99	2.22	3.86	2.72	0.16	0.05	0.68	99.51	6.4	5.2	9.9	64	0.05	6.1	5.4	183	1.93	0.9	1.1	0.25	36.6	7	0.05	0.05	0.05	19	0.29	0.053	62	76	0.54	73	0.140	4	0.79	0.031	0.54	0.05	0.005	3.3	0.3	5	0.25
06-ARD-269-019	5034	Granite	Country Rock	68.37	0.50	14.84	2.46	0.01	1.04	1.54	2.95	6.29	0.36	0.16	0.82	99.35	4.5	7.3	3.3	54	0.05	5.2	4.8	198	1.39	0.7	0.6	0.25	10.8	8	0.05	0.05	0.05	23	0.46	0.129	37	53	0.55	63	0.093	3	0.67	0.018	0.38	0.05	0.005	2.0	0.2	4	0.25
06-ARD-269-020	5034	Granite	Country Rock	67.70	0.29	15.80	2.24	0.01	1.35	1.19	3.93	5.30	0.21	0.16	1.24	99.43	5.3	22.4	2.0	43	0.05	12.3	6.1	181	1.28	0.6	0.9	0.25	9.4	13	0.05	0.05	0.05	19	0.34	0.079	27	54	0.74	35	0.027	5	0.66	0.028	0.14	0.05	0.005	0.7	0.1	4	0.25
06-ARD-269-021	5034	Granite	Country Rock	68.84	0.23	15.73	2.45	0.01	1.00	2.64	4.72	2.71	0.09	0.07	1.05	99.55	6.1	23.1	4.4	46	0.05	7.8	5.2	199	1.48	0.5	0.5	0.25	13.8	14	0.05	0.05	0.05	22	0.53	0.042	24	68	0.60	52	0.107	4	0.64	0.036	0.27	0.05	0.005	1.7	0.1	4	0.25
06-ARD-269-022	5034	Granite	Country Rock	70.16	0.29	15.57	2.18	0.01	0.61	2.64	4.60	2.87	0.08	0.09	0.44	99.55	5.4	6.5	2.5	42	0.05	5.8	4.1	160	1.16	0.25	0.2	0.6	3.9	13	0.05	0.05	0.05	18	0.22	0.036	9	66	0.35	57	0.101	2	0.49	0.038	0.29	0.05	0.005	1.6	0.2	3	0.25
06-ARD-269-023	5034	Granite	Country Rock	70.16	0.23	15.56	2.18	0.01	0.60	2.26	4.23	3.63	0.08	0.10	0.52	99.56	5.2	3.8	5.9	41	0.05	4.4	3.1	147	1.17	0.7	0.4	0.7	17.2	12	0.05	0.05	0.05	15	0.19	0.030	26	60	0.33	41	0.084	3	0.46	0.034	0.22	0.05	0.005	1.2	0.1	3	0.25
06-ARD-269-024	5034	Granite	Country Rock	69.29	0.28	15.94	2.18	0.01	0.76	2.40	4.60	3.09	0.12	0.08	0.72	99.47	4.8	9.2	2.4	42	0.05	5.1	3.7	161	1.12	0.25	0.2	0.25	0.5	13	0.05	0.05	0.05	11	0.32	0.044	4	59	0.39	30	0.097	3	0.53	0.033	0.19	0.1	0.005	1.5	0.1	4	0.25
06-ARD-269-025	5034	Granite	Country Rock	68.55	0.50	14.78	3.74	0.02	0.84	2.13	3.66	4.17	0.19	0.13	0.73	99.45	5.7	3.9	5.3	64	0.1	5.8	5.2	207	2.01	0.9	0.5	0.25	12.3	11	0.05	0.05	0.05	24	0.42	0.070	45	69	0.44	67	0.120	2	0.64	0.033	0.34	0.05	0.005	2.5	0.2	5	0.25
06-ARD-269-026	5034	Granite	Country Rock	70.33	0.23	15.31	1.98	0.01	0.59	2.19	3.97	4.10	0.15	0.13	0.46	99.44	5.1	6.9	2.3	40	0.05	4.6	3.3	168	1.09	0.25	0.3	0.25	3.0	12	0.05	0.05	0.05	15	0.21	0.047	12	63	0.32	51	0.086	2	0.48	0.031	0.28	0.05	0.005	1.4	0.1	3	0.25
06-ARD-269-027	5034	Granite	Country Rock	63.52	0.67	14.20	9.47	0.04	0.58	1.33	3.18	5.70	0.33	0.12	0.44	99.57	4.6	2.4	3.5	52	0.05	4.0	5.4	221	4.08	0.25	0.2	0.25	8.1	11	0.05	0.05	0.05	56	0.32	0.073	18	52	0.28	21	0.054	2	0.37	0.021	0.13	0.05	0.005	1.2	0.1	9	0.25
06-ARD-269-028	5034	Granite	Country Rock	71.65	0.20	15.00	1.71	0.01	0.56	2.17	4.41	3.05	0.14	0.09	0.67	99.67	7.3	19.9	8.8	36	0.05	6.6	4.5	145	1.08	0.8	0.7	1.1	22.1	19	0.05	0.05	0.05	13	0.28	0.038	26	89	0.33	43	0.082	3	0.50	0.046	0.20	0.05	0.005	1.4	0.1	4	0.25
06-ARD-269-029	5034	Granite	Country Rock	67.13	0.36	16.55	3.04	0.02	1.03	2.61	4.84	2.87	0.19	0.08	0.87	99.60	6.0	21.6	6.3	65	0.05	10.2	7.1	269	1.85	0.7	0.4	1.3	7.4	18	0.05	0.4	0.05	23	0.37	0.070	36	73	0.58	87	0.165	6	0.82	0.048	0.41	0.05	0.005	2.4	0.2	6	0.25
06-ARD-269-030	5034	Granite	Country Rock	68.42	0.47	15.23	2.99	0.02	1.05	1.85	3.79	4.49	0.26	0.15	0.87	99.58	7.5	16.5	7.8	62	0.05	8.8	6.7	245	1.78	1	0.6	1.1	23.8	21	0.05	0.05	0.05	25	0.40	0.076	49	79	0.58	101	0.151	4	0.83	0.038	0.44	0.05	0.005	2.4	0.2	6	0.25
06-ARD-269-031	5034	Granite	Country Rock	68.76	0.31	15.09	2.76	0.02	1.78	1.99	3.28	4.02	0.18	0.12	1.29	99.58	16.6	4.5	3.7	45	0.05	29.3	8.8	221	1.58	0.9	1.3	1	6.8	52	0.05	0.05	0.05	34	0.38	0.075	32	88	0.95	152	0.108	12	1.03	0.045	0.48	0.05	0.005	2.5	0.1	5	0.25
06-ARD-273-001	5034	Granite	Country Rock	71.06	0.32	14.08	2.47	0.01	0.81	0.92	3.44	4.85	0.14	0.08	0.89	99.07	5.5	2.0	12.3	39	0.05	4.6	3.9	148	1.52	0.25	1.0	0.25	84.2	14	0.05	0.05	0.05	17	0.17	0.06	288	69	0.44	29	0.03	5	0.61	0.02	0.15	0.05	0.005	2.5	0.1	6	0.25
06-ARD-273-002	5034	Granite	Country Rock	70.71	0.35	14.60	2.63	0.02	0.82	1.11	3.52	5.32	0.19	0.08	0.59	99.94	6.3	3.2	8.9	43	0.05	5.0	3.7	143	1.60	0.25	1.0	0.25	48.3	7	0.1	0.05	0.05	18	0.16	0.07	79	82	0.42	41	0.08	3	0.63	0.03	0.37	0.1	0.005	1.9	0.2	5	0.25
06-ARD-273-003	5034	Granite	Country Rock	71.66	0.32	14.12	2.35	0.01	0.64	1.32	3.07	5.34	0.05	0.08	0.43	99.39	6.4	2.0	12.3	42	0.05	4.2	3.5	111	1.41	0.25	1.1	0.25	50.8	5	0.05	0.05	0.05	15	0.08	0.01	71	82	0.32	41	0.10	4	0.55	0.02	0.35	0.05	0.005	2.1	0.2	5	0.25
06-ARD-273-004	5034	Granite	Country Rock	72.87	0.26	13.78	1.90	0.01	0.53	1.26	3.11	5.19	0.03	0.07	0.42	99.43	7.4	1.5	12.9	32	0.05	3.9	2.6	92	1.13	0.25	0.8	0.25	36.4	6	0.05	0.05	0.05	12	0.11	0.01	50	96	0.26	29	0.08	3	0.46	0.03	0.22	0.05	0.005	1.4	0.1	4	0.25
06-ARD-273-005	5034	Granite	Country Rock	72.68	0.25	13.69	1.85	0.01	0.54	1.29	3.12	5.10	0.04	0.07	0.48	99.12	5.7	1.2	10.3	29	0.05	3.5	2.8	88	1.11	0.25	0.7	1.1	37.8	6	0.05	0.05	0.05	12	0.11	0.01	51	83	0.27	27	0.08	6	0.43	0.03	0.20	0.05	0.005	1.5	0.1	4	0.25
06-ARD-273-006	5034	Granite	Country Rock	72.96	0.25	13.76	1.79	0.01	0.52	1.23	3.08	5.29	0.08	0.08	0.41	99.46	4.7	0.9	12.7	31	0.05	3.1	2.5	107	1.04	0.25	0.6	0.25	29.2	4	0.05	0.05	0.05	10	0.05	0.01	45	62	0.24	25	0.05	4	0.39	0.02	0.20	0.05	0.005	1.3	0.1	3	0.25
06-ARD-273-007	5034	Granite	Country Rock	73.04	0.26	13.61	1.82	0.01	1.08	0.68	3.01	5.05	0.03	0.07	0.82	99.48	6.2	1.4	7.1	31	0.1	3.8	2.8	101	1.06	0.25	0.6	0.25	35.6	4	0.05	0.05	0.05	9	0.03	0.01	53	82	0.47	20	0.02	3	0.56	0.02	0.16	0.2	0.005	0.9	0.1	4	0.25
06-ARD-273-008	5034	Granite	Country Rock	73.32	0.27	13.82	1.40	0.01	0.51	1.29	3.13	5.13	0.10	0.09	0.39	99.46	6.9	2.5	14.6	31	0.1	3.6	2.7	112	0.79	0.25	1.4	0.25	32.9	6	0.05	0.1	0.05	22	0.09	0.01	46	102	0.25	39	0.08	4	0.44	0.03	0.27	0.2	0.005	1.6	0.1	3	0.25
06-ARD-273-009	5034	Granite	Country Rock	71.12	0.31	14.17	2.12	0.02	0.82	0.66	2.92	6.18	0.11	0.10	0.75	99.28	7.0	4.7	15.9	44	0.3	3.9	3.1	164	1.26	0.25	6.2	0.7	78.5	8	0.05	0.05	0.05	12	0.09	0.04	119	86	0.40	29	0.02	5	0.53	0.03	0.19	0.6	0.005	1.2	0.1	5	0.25
06-ARD-273-010	5034	Granite	Country Rock	73.66	0.20	13.55	1.27	0.01	0.54	1.43	3.30	4.67	0.03	0.11	0.44	99.21	7.8	6.9	12.7	32	0.05	4.1	2.8	105	0.78	0.25	0.7	0.25	34.4	11	0.05	0.05	0.05	9	0.12	0.01	52	103	0.27	46	0.08	4	0.43	0.03	0.26	0.1	0.005	1.6	0.1	3	0.25
06-ARD-273-011	5034	Granite	Country Rock	70.75	0.27	14.50	1.64	0.01	0.66	1.17	2.85	6.57	0.18	0.14	0.65	99.39	4.2	5.6	7.4	37	0.05	3.3	3.0	127	0.98	0.25	0.6	0.25	27.4	8	0.05	0.05	0.05	11	0.31	0.07	42	56	0.33	32	0.07	3	0.44	0.01	0.19	0.1	0.005	1.7	0.1	3	0.25
06-ARD-273-012	5034	Granite	Country Rock	69.82	0.34	14.69	3.11	0.02	0.85	1.69	3.48	4.56	0.34	0.10	0.67	99.67	6.4	4.5	18.4	45	0.05	5.1	4.5	146	1.87	0.25	1.6	6.2	74.0	9	0.1	0.05	0.05	23	0.25	0.07	106	88	0.41	53	0.08	6	0.58	0.03	0.36	0.1	0.02	1.8	0.2	6	0.25
06-ARD-273-013	5034	Granite	Country Rock	70.11	0.39	14.41	2.81	0.03	0.70	1.62	3.34	4.92	0.16	0.12	0.73	99.34	4.9	3.2	14.5	49	0.05	5.0	4.2	180	1.63	0.25	1.0	3.6	49.2	10	0.05	0.05	0.05	22	0.33	0.06	57	69	0.34	38	0.09	4	0.49	0.02	0.18	0.1	0.01	1.9	0.1	4	0.25
06-ARD-273-014	5034	Granite	Country Rock	75.15	0.23	12.41	1.40	0.01	0.67	0.68	2.45	5.62	0.08	0.14	0.50	99.34	6.9	1.8	4.5	25	0.05	3.1	2.4	110	0.82	0.25	0.4	1.6	17.1	6	0.05	0.05	0.05	8	0.07	0.03	31	96	0.27	42	0.02	2	0.39	0.02	0.19	0.1	0.005	0.7	0.1	2	0.25
06-ARD-273-015	5034	Granite	Country Rock	70.32	0.41	14.53	2.80	0.01	0.74	1.35	3.26	5.04	0.21	0.13	0.71	99.51	6.8	3.7	9.1	50	0.05	5.3	4.7	196	1.67	0.25	0.7	2	17.9	12	0.05	0.05	0.05	18	0.21	0.07	62	96	0.36	61	0.05	5	0.57	0.03	0.25	0.1	0.005	1.5	0.1	4	0.25
06-ARD-273-016	5034	Granite	Country Rock	72.12	0.27	13.65	1.76	0.01	1.04	0.48	2.62	6.17	0.15	0.14	0.88	99.29	7.0	11.5	4.2	29	0.05	5.3	4.0	116	1.08	0.25	1.3	0.25	20.3	9	0.05	0.2	0.05	8	0.13	0.06	59	99	0.54	40	0.01	3	0.60	0.03	0.17	0.1	0.005	0.7	0.1	4	0.25
06-ARD-273-017	5034	Granite	Country Rock	69.34	0.43	15.69	2.81	0.02	0.73	2.60	4.96	2.31	0.10	0.04	0.69	99.72	4.8	2.7	4.4	53	0.05	6.2	4.0	166	1.72	0.25	0.6	0.25	15.0	8	0.05	0.05	0.05	39	0.13	0.04	34	69	0.38	33	0.06	5	0.48	0.03	0.20	0.2	0.005	1.2	0.1	6	0.25
06-ARD-273-018	5034	Granite	Country Rock	69.62	0.32	14.94	2.18	0.02	1.28	1.49	3.52	4.42	0.14	0.09	0.98	99.00	3.6	13.9	11.6	46	0.05	11.7	5.0	176	1.29	0.25	0.7	0.7	30.1	9	0.05	0.05	0.05	18	0.13	0.06	50	45	0.65	48	0.06	9	0.68	0.02	0.29	0.05	0.005	1.3	0.1	5	0.25
06-ARD-273-019	5034	Granite	Country Rock	51.25	0.86	12.31	7.85	0.04	12.81	1.08	0.02	5.25	0.61	0.05	6.14	98.27	2.7	258.2	18.6	84	0.2	592.7	34.2	318	5.26	0.7	0.9	1	3.5	42	0.05	0.05	0.05	93	0.69	0.23	14	565	8.11	206	0.20	28	3.86	0.03	2.37	0.1	0.01	4.1	1.8	15	0.25
06-ARD-273-020	5034	Granite	Country Rock	66.61	0.33	17.05	2.31	0.03	1.04	2.68	4.70	3.59	0.33	0.09	0.57	99.33	4.0	2.0	3.6	54	0.05	5.2	4.7	238	1.39	0.25	0.3	0.25	10.5	15	0.05	0.05	0.05	16	0.32	0.13	29	59	0.53	78	0.10	5	0.70	0.03	0.48	0.1	0.005	2.1	0.3	5	0.25
06-ARD-273-021	5034	Granite	Country Rock	70.13	0.23	15.32	1.90	0.01	1.64	0.92	3.86	4.25	0.07	0.08	1.20	99.61	4.1	3.2	2.2	32	0.05	7.1	3.1	135	1.08	0.25	0.4	0.25	9.4	6	0.05	0.05	0.05	12	0.08	0.03	28	59	0.68	24	0.02	7	0.71	0.02	0.17	0.3	0.005	0.8	0.1	5	0.25
06-ARD-273-022	5034	Granite	Country Rock	67.49	0.27	16.69	2.14	0.02	0.99	1.43	3.93	5.37	0.07	0.13	0.88	99.41	4.0	12.2	2.4	47	0.05	7.2	4.9	192	1.29	0.25	0.2	0.25	5.8	11	0.05	0.05	0.05	15	0.11	0.03	16	55	0.51	36	0.04	6	0.58	0.02	0.19	0.05	0.005	1.1	0.1	5	0.25
06-ARD-273-023	5034	Granite	Country Rock	70.00	0.24	15.55	1.95	0.01	0.84	1.98	3.92	3.83	0.08	0.09	0.80	99.29	5.7	7.5	2.6	45	0.05	7.7	3.6	180	1.22	0.25	0.4	1	7.8	11	0.05	0.05	0.05	15	0.11	0.04	19	73	0.42	64	0.07	11	0.58	0.03	0.35	0.1	0.005	1.4	0.2	4	0.25
06-ARD-273-024	5034	Granite	Country Rock	69.98	0.26	15.55	2.25	0.02	0.73	2.59	4.26	3.10	0.08	0.08	0.42	99.32	6.7	11.2	2.4	53	0.05	6.5	4.2	209	1.43	0.25	0.2	0.8	5.3	12	0.05	0.05	0.05	20	0.20	0.03	18	90	0.39	76	0.12	3	0.61	0.04	0.48	0.05	0.005	2.1	0.3	5	0.25
06-ARD-273-025	5034	Granite	Country Rock	71.64	0.33	14.40	1.60	0.01	0.67	1.48	3.26	5.22	0.13	0.15	0.39	99.28	5.4	6.2	3.1	29	0.05	3.2	2.8	138	0.93	0.25	0.3	0.6	7.6	10	0.05	0.05	0.05	9	0.17	0.04	23	73	0.37	57	0.09	4	0.49	0.03	0.31	0.05	0.005	1.6	0.2	3	0.25
06-ARD-275-001	5034	Granite	Country Rock	69.70	0.31	14.73	3.11	0.03	0.83	1.60	3.61	4.14	0.18	0.13	0.72	99.09	5.5	5.1	6.2	60	0.05	6.4	5.2	223	1.84	0.25	0.5	0.25	15.2	16	0.05	0.05	0.05	28	0.27	0.07	53	76	0.42	52	0.10	3	0.58	0.03	0.25	0.05	0.005	1.9	0.1	6	0.25
06-ARD-275-002	5034	Granite	Country Rock	70.26	0.25	15.31	2.06	0.02	0.73	1.74	4.02	3.84	0.11	0.10	0.69	99.13	5.7	7.2	4.8	48	0.05	6.2	4.2	175	1.25	0.25	0.4	1.6	11.5	19	0.05	0.05	0.05	17	0.21	0.05	34	79	0.38	38	0.09	3	0.54	0.03	0.19	0.05	0.005	1.8	0.1	5	0.25
06-ARD-275-003	5034	Granite	Country Rock	68.27	0.38	14.90	2.79	0.03	1.58	1.31	3.29	5.00	0.12	0.12	1.30	99.09	3.1	13.4	7.2	60	0.05	6.6	5.4	254	1.68	0.25	0.6	0.25	27.1	7	0.05	0.05	0.05	21	0.30	0.04	72	53	0.84	58	0.07	4	0.81	0.02	0.36	0.05	0.005	1.9	0.2	6	0.25
06-ARD-275-004	5034	Granite	Country Rock	67.54	0.39	15.46	3.56	0.04	1.38	1.90	4.10	3.49	0.20	0.09	0.96	99.11	2.7	8.1	12.9	78	0.05	5.1	5.2	315	2.20	0.25	0.6	0.25	22.8	10	0.05	0.05	0.05	26	0.34	0.08	52	41	0.69	32	0.12	2	0.73	0.02	0.19	0.1	0.005	2.0	0.1	7	0.25
06-ARD-275-005	5034	Granite	Country Rock	67.99	0.48	15.14	3.55	0.03	1.47	1.30	3.63	4.42	0.31	0.10	0.99	99.41	5.3	5.1	7.7	75	0.05	7.3	5.9	263	2.29	0.25	1.2	0.25	37.0	10	0.05	0.05	0.05	29	0.33	0.14	84	84	0.84	75	0.10	4	0.91	0.04	0.52	0.1	0.005	2.5	0.3	8	0.25
06-ARD-275-006	5034	Granite	Country Rock	68.02	0.54	14.82	4.06	0.04	0.99	2.16	3.62	3.81	0.21	0.12	0.70	99.09	4.3	4.3	10.3	88	0.05	7.0	6.4	238	2.34	0.6	0.9	1.7	26.4	13	0.05	0.05	0.05	42	0.38	0.09	74	61	0.48	74	0.13	3	0.65	0.02	0.38	0.05	0.005	2.6	0.2	6	0.25
06-ARD-275-007	5034	Granite	Country Rock	67.38	0.56	15.11	4.16	0.04	1.14	2.05	3.94	3.65	0.21	0.10	0.96	99.30	3.2	4.3	8.3	83	0.05	6.6	5.7	286	2.38	0.6	0.9	1	27.5	18	0.05	0.05	0.05	35	0.43	0.08	67	45	0.59	33	0.13	3	0.67	0.02	0.19	0.1	0.005	2.4	0.1	7	0.25
06-ARD-275-008	5034	Granite	Country Rock	66.30	0.57	16.45	2.78	0.03	0.89	1.87	3.89	5.33	0.16	0.15	0.75	99.17	3.9	5.1	16.7	54	0.05	5.0	4.2	185	1.45	0.6	1.1	1.4	48.1	18	0.05	0.1	0.05	20	0.31	0.06	99	56	0.43	58	0.12	2	0.59	0.02	0.32	0.05	0.005	2.3	0.2	4	0.25
06-ARD-275-009	5034	Granite	Country Rock	67.90	0.52	15.00	3.56	0.04	1.25	1.60	3.74	4.50	0.23	0.11	0.80	99.25	4.6	1.8	7.9	72	0.05	6.3	5.9	251	2.02	0.6	1.2	0.25	34.0	10	0.05	0.05	0.05	29	0.29	0.09	85	62	0.61	72	0.12	5	0.76	0.03	0.54	0.1	0.005	2.4	0.3	6	0.25
06-ARD-275-010	5034	Granite	Country Rock	68.27	0.39	15.28	3.13	0.04	1.10	1.99	3.90	4.16	0.19	0.10	0.72	99.27	4.1	5.6	7.8	72	0.05	5.9	4.9	260	1.87	0.7	0.7	0.25	23.4	13	0.05	0.1	0.05	30	0.32	0.08	61	64	0.56	77	0.14	3	0.72	0.02	0.49	0.05	0.005	2.5	0.3	6	0.25
06-ARD-275-011	5034	Granite	Country Rock	68.56	0.30	16.04	2.39	0.02	1.39	1.54	4.12	3.85	0.11	0.09	1.05	99.46	4.1	4.7	1.2	47	0.05	6.3	4.0	186	1.36	0.6	0.3	0.25	5.4	7	0.05	0.05	0.05	15	0.12	0.05	19	61	0.65	40	0.04	6	0.72	0.02	0.25	0.05	0.005	1.1	0.1	6	0.25
06-ARD-275-012	5034	Granite	Country Rock	70.56	0.25	15.31	1.9	0.02	0.66	1.84	4.53	3.73	0.07	0.08	0.59	99.52	6.0	6	3.4	43	0.05	5.5	3.4	150	1.11	0.6	0.4	0.25	6.4	12	0.05	0.05	0.05	16	0.13	0.03	18	83	0.33	36	0.07	4	0.49	0.03	0.26	0.05	0.005	1.0	0.1	4	0.25
06-ARD-275-013	5034	Granite	Country Rock	70.21	0.22	15.46	2.06	0.02	0.64	2.11	4.33	3.55	0.14	0.09	0.53	99.36	3.7	3.9	6.2	46	0.05	4.8	3.4	174	1.21	0.25	0.6	0.25	11.4	10	0.05	0.05	0.05	18	0.18	0.05	26	54	0.32	39	0.08	3	0.42	0.02	0.24	0.05	0.005	1.4	0.1	4	0.25
06-ARD-275-014	5034	Granite	Country Rock	69.29	0.24	15.47	2.56	0.02	0.74	1.87	4.17	4.17	0.14	0.10	0.63	99.40	4.0	2.6	3.6	48	0.05	4.7	3.4	181	1.46	0.6	4.4	0.25	8.6	13	0.05	0.05	0.05	22	0.23	0.06	25	54	0.33	35	0.06	4	0.41	0.02	0.22	0.6	0.005	1.1	0.1	5	0.25
06-ARD-275-015	5034	Granite	Country Rock	69.03	0.30	15.81	2.36	0.02	1.19	2.52	4.28	3.27	0.12	0.09	0.58	99.57	6.0	3.6	3.9	55	0.05	7.1	4.8	185	1.48	0.25	0.8	0.25	12.8	18	0.05	0.05	0.05	24	0.19	0.05	39	84	0.51	100	0.12	9	0.63	0.04	0.47	0.05	0.005	1.8	0.2	5	0.25
06-ARD-275-016	5034	Granite	Country Rock	70.66	0.25	15.12	2.06	0.03	0.60	2.08	4.06	3.79	0.10	0.08	0.51	99.34	9.0	8.2	4.8	41	0.05	4.3	3.4	180	1.21	0.25	1.8	0.25	9.7	14	0.05	0.1	0.05	19	0.16	0.03	31	89	0.30	50	0.08	6	0.49	0.04	0.36	0.1	0.005	1.6	0.2	4	0.25
06-ARD-275-017	5034	Granite	Country Rock	69.30	0.40	14.45	3.20	0.03	1.09	1.68	3.30	4.62	0.19	0.13	0.87	99.26	5.5	10.7	4.5	61	0.05	6.4	5.0	221	1.93	0.25	0.7	0.25	11.9	16	0.05	0.05	0.05	28	0.31	0.07	35	74	0.56	62	0.10	8	0.67	0.03	0.33	0.1	0.005	1.7	0.2	6	0.25
06-ARD-275-019	5034	Granite	Country Rock	68.61	0.30	15.85	2.29	0.02	1.01	2.14	4.40	3.49	0.11	0.10	0.93	99.25	4.7	4.5	3.4	50	0.05	6.1	4.3	178	1.33	0.25	0.4	0.25	9.8	23	0.05	0.05	0.05	21	0.29	0.04	28	69	0.53	46	0.10	9	0.55	0.03	0.23	0.05	0.005	1.5	0.1	4	0.25
06-ARD-275-020	5034	Granite	Country Rock	68.97	0.29	15.56	2.20	0.02	0.87	2.17	5.17	3.85	0.11	0.09	0.61	99.91	6.6	7.3	3.2	49	0.05	5.6	4.3	186	1.32	0.25	0.4	0.25	7.7	22	0.05	0.1	0.05	21	0.19	0.05	29	83	0.45	72	0.10	13	0.59	0.04	0.42	0.05	0.005	1.7	0.2	4	0.25
04-ARD-120-001	Hearne	Granite	Country Rock	73.84	0.17	14.03	1.37	0.010	0.28	1.34	3.90	4.15	0.05	0.06	0.34	99.54	7.00	4.4	5.1	34	0.1	2.9	2.0	131	0.78	4.7	2.0	1.6	14.9	3	0.1	0.5	0.1	9	0.06	0.008	26	90.1	0.17	26	0.055	1	0.39	0.028	0.23	0.05	0.01	1.5	0.2	3	0.25
04-ARD-120-002	Hearne	Granite	Country Rock	68.95	0.27	15.92	2.28	0.010	0.58	1.13	3.66	6.23	0.15	0.09	0.49	99.76	5.80	6.3	10.0	63	0.1	4.1	3.3	165	1.29	1.6	3.6	1.3	32.3	4	0.1	0.2	0.1	16	0.06	0.018	54	82.9	0.29	49	0.100	2	0.63	0.026	0.45	0.05	0.01	1.9	0.3	6	0.25
04-ARD-120-003	Hearne	Granite	Country Rock	66.37	0.25	17.12	2.31	0.020	0.56	1.12	3.96	6.96	0.11	0.10	0.47	99.35	8.60	4.7	18.6	54	0.1	3.8	3.3	147	1.33	2.6	6.6	2.1	73.5	7	0.1	0.2	0.1	12	0.08	0.022	99	104.8	0.28	63	0.100	1	0.70	0.058	0.55	0.05	0.01	1.9	0.3	5	0.25
04-ARD-120-004	Hearne	Granite	Country Rock	71.19	0.18	14.15	3.05	0.170	0.56	1.12	3.47	4.88	0.07	0.07	0.43	99.34	10.10	3.3	7.3	46	0.1	3.6	3.1	450	1.70	4.2	1.9	1.6	26.3	5	0.1	0.1	0.1	11	0.09	0.013	45	131.9	0.30	39	0.068	1	0.66	0.042	0.39	0.05	0.01	4.4	0.3	5	0.25
04-ARD-120-005	Hearne	Granite	Country Rock	72.23	0.23	14.52	1.62	0.010	0.43	1.29	3.74	4.78	0.05	0.07	0.40	99.37	7.90	7.3	7.6	43	0.1	4.1	2.8	154	0.97	1.4	2.4	1.3	24.3	4	0.1	0.1	0.1	12	0.11	0.012	41	108.1	0.25	41	0.084	2	0.54	0.039	0.36	0.05	0.01	1.5	0.2	4	0.25
04-ARD-120-006	Hearne	Granite	Country Rock	72.91	0.25	14.07	1.80	0.010	0.37	1.25	3.68	4.69	0.05	0.07	0.30	99.45	9.70	4.2	8.7	52	0.1	3.8	2.7	97	1.12	1.0	3.1	1.0	31.4	4	0.1	0.3	0.1	15	0.06	0.010	50	120.3	0.24	49	0.095	1	0.58	0.048	0.38	0.05	0.01	1.2	0.3	5	0.25
04-ARD-120-007	Hearne	Granite	Country Rock	73.41	0.20	13.78	1.62	0.010	0.34	1.15	3.47	4.90	0.05	0.07	0.43	99.43	26.20	8.0	6.0	35	0.1	3.1	2.3	111	0.95	0.9	1.7	2.4	23.6	4	0.1	0.1	0.1	10	0.08	0.009	34	105.2	0.18	31	0.055	0.5	0.41	0.032	0.25	0.05	0.01	0.9	0.2	4	0.25
04-ARD-120-008	Hearne	Granite	Country Rock	69.91	0.18	15.67	1.49	0.010	0.38	1.30	3.92	5.53	0.07	0.09	0.81	99.36	10.30	45.8	8.6	30	0.1	3.8	2.3	121	0.80	1.2	3.0	2.2	23.1	7	0.1	0.3	0.1	9	0.19	0.019	39	116.5	0.20	45	0.043	1	0.46	0.043	0.27	0.05	0.01	1.0	0.2	3	0.25
04-ARD-120-009	Hearne	Granite	Country Rock	74.86	0.23	12.72	1.94	0.010	0.37	0.86	2.92	5.26	0.03	0.05	0.33	99.58	8.50	18.1	9.7	47	0.1	3.0	2.6	127	1.13	1.4	3.2	1.7	25.2	3	0.1	0.7	0.1	14	0.04	0.008	39	105.1	0.20	25	0.067	2	0.42	0.025	0.26	0.05	0.01	1.7	0.2	5	0.25
04-ARD-120-010	Hearne	Granite	Country Rock	73.48	0.18	13.80	1.62	0.010	0.31	1.01	3.43	5.32	0.05	0.05	0.44	99.70	8.10	27.3	6.8	35	0.1	2.9	2.0	140	0.96	1.2	2.9	2.0	23.2	3	0.1	0.2	0.1	9	0.11	0.011	34	107.8	0.17	17	0.039	1	0.35	0.028	0.21	0.05	0.01	0.7	0.1	3	0.25
04-ARD-120-013	Hearne	Granite	Country Rock	73.97	0.15	13.60	1.14	0.010	0.30	1.12	3.34	5.19	0.05	0.07	0.34	99.28	8.00	12.1	4.0	24	0.1	2.6	1.7	102	0.68	0.9	0.8	0.5	9.6	4	0.1	0.3	0.1	7	0.11	0.016	17	100.7	0.16	24	0.052	1	0.33	0.029	0.20	0.05	0.01	1.0	0.1	3	0.25
04-ARD-120-014	Hearne	Granite	Country Rock	72.27	0.28	14.10	2.17	0.010	0.46	1.47	3.59	4.57	0.03	0.08	0.46	99.49	8.60	6.5	9.0	43	0.1	4.2	3.4	151	1.31	1.3	1.0	0.3	27.7	5	0.1	0.1	0.1	14	0.16	0.015	53	114.5	0.24	50	0.091	1	0.54	0.036	0.34	0.05	0.01	1.6	0.2	4	0.25
04-ARD-120-015	Hearne	Granite	Country Rock	68.20	0.44	14.94	3.44	0.010	0.72	1.64	2.93	6.15	0.20	0.17	0.52	99.36	8.00	11.5	4.5	55	0.1	5.1	5.0	226	1.87	0.8	0.2	0.3	5.5	7	0.1	0.3	0.1	26	0.33	0.092	22	99.6	0.36	167	0.157	2	0.82	0.035	0.59	0.05	0.01	3.3	0.2	6	0.25
04-ARD-120-016	Hearne	Granite	Country Rock	69.63	0.47	14.47	4.03	0.010	0.76	2.19	3.58	3.85	0.15	0.12	0.37	99.63	9.80	16.7	7.4	68	0.1	5.8	5.7	244	2.33	1.3	0.4	1.8	13.2	7	0.1	0.6	0.1	34	0.23	0.065	57	113.5	0.43	193	0.184	1	0.92	0.057	0.67	0.05	0.01	3.3	0.3	7	0.25
04-ARD-120-017	Hearne	Granite	Country Rock	70.20	0.40	14.43	3.31	0.010	0.80	1.91	3.28	4.55	0.15	0.12	0.40	99.56	6.40	12.4	18.7	59	0.1	5.2	5.2	206	1.87	1.3	0.7	0.8	22.5	6	0.1	2.6	0.1	26	0.28	0.079	53	74.9	0.35	146	0.163	1	0.75	0.027	0.57	0.05	0.01	3.2	0.3	6	0.25
04-ARD-120-018	Hearne	Granite	Country Rock	66.55	0.37	15.11	3.13	0.020	0.60	1.28	2.39	8.65	0.76	0.17	0.50	99.53	8.00	12.1	3.2	63	0.1	4.7	4.8	290	1.92	0.8	0.7	1.4	4.2	8	0.1	0.3	0.1	25	0.69	0.315	24	94.5	0.34	95	0.117	2	0.78	0.029	0.53	0.05	0.01	2.5	0.3	7	0.25
04-ARD-120-019	Hearne	Granite	Country Rock	69.97	0.47	14.40	3.97	0.020	0.75	2.03	3.48	3.92	0.14	0.12	0.46	99.73	8.20	21.2	8.8	71	0.1	5.9	5.9	255	2.24	1.5	0.6	1.1	17.0	6	0.1	0.8	0.1	28	0.25	0.060	56	97.7	0.38	195	0.194	1	0.90	0.039	0.73	0.05	0.01	3.3	0.4	7	0.25
04-ARD-120-020	Hearne	Granite	Country Rock	70.25	0.44	14.43	3.74	0.010	0.70	2.03	3.57	3.63	0.14	0.12	0.50	99.56	8.20	12.7	8.3	65	0.1	5.2	5.5	215	2.11	1.3	0.6	1.0	19.4	6	0.1	0.4	0.1	28	0.27	0.062	55	99.5	0.38	167	0.188	1	0.91	0.042	0.66	0.1	0.01	3.0	0.4	7	0.25
04-ARD-120-021	Hearne	Granite	Country Rock	68.83	0.20	16.27	1.67	0.010	0.55	1.23	3.76	6.23	0.09	0.10	0.81	99.75	7.20	7.5	8.1	32	0.1	3.4	2.4	140	0.95	3.9	2.2	0.7	27.1	8	0.1	0.4	0.1	8	0.17	0.018	42	91.5	0.28	40	0.034	9	0.52	0.034	0.23	0.05	0.01	1.4	0.1	4	0.25
04-ARD-120-022	Hearne	Granite	Country Rock	72.76	0.17	14.25	1.71	0.020	0.37	1.02	3.45	5.40	0.09	0.07	0.33	99.64	7.70	9.8	5.9	31	0.1	2.9	2.4	146	0.92	0.7	2.2	0.9	22.5	4	0.1	0.1	0.1	7	0.07	0.010	33	95.7	0.19	30	0.061	1	0.44	0.031	0.27	0.05	0.01	1.3	0.2	4	0.25
04-ARD-120-023	Hearne	Granite	Country Rock	74.77	0.10	13.88	1.13	0.010	0.15	0.75	2.99	5.28	0.05	0.02	0.43	99.56	9.20	11.2	4.1	20	0.1	2.2	1.0	56	0.64	0.7	9.2	0.6	9.3	3	0.1	0.2	0.1	1	0.03	0.006	11	118.0	0.08	13	0.017	3	0.40	0.031	0.20	0.05	0.01	1.0	0.1	3	0.25
04-ARD-120-024	Hearne	Granite	Country Rock	73.69	0.20	13.84	1.38	0.010	0.34	1.20	3.49	4.78	0.05	0.08	0.40	99.46	10.40	11.0	5.5	33	0.1	4.5	2.5	78	0.86	0.8	1.3	0.8	17.7	5	0.1	0.1	0.1	10	0.11	0.009	27	122.2	0.20	35	0.070	1	0.47	0.042	0.26	0.05	0.01	1.2	0.2	4	0.25
04-ARD-120-025	Hearne	Granite	Country Rock	71.91	0.27	14.52	1.97	0.010	0.51	1.17	3.73	4.92	0.07	0.08	0.46	99.62	9.30	10.0	10.6	51	0.1	4.5	3.0	83	1.22	1.3	3.3	1.4	30.6	5	0.1	0.3	0.1	15	0.11	0.012	49	122.6	0.28	44	0.093	2	0.61	0.041	0.32	0.05	0.01	1.5	0.2	6	0.25
04-ARD-120-026	Hearne	Granite	Country Rock	70.94	0.20	15.10	2.30	0.050	0.47	1.13	3.55	5.28	0.09	0.08	0.40	99.59	8.50	20.6	7.4	37	0.1	4.2	2.9	138	1.08	8.7	2.6	21.6	27.1	5	0.1	0.4	0.1	8	0.11	0.013	41	108.3	0.23	32	0.062	3	0.51	0.034	0.21	0.05	0.02	1.9	0.2	4	0.25
04-ARD-120-027	Hearne	Granite	Country Rock	70.00	0.31	15.02	2.49	0.010	0.58	0.94	3.31	6.15	0.09	0.08	0.70	99.68	8.60	11.0	9.7	65	0.1	5.3	3.7	93	1.54	1.5	3.9	0.8	32.9	7	0.1	0.4	0.1	16	0.12	0.015	53	116.5	0.30	57	0.098	3	0.68	0.033	0.37	0.05	0.01	2.2	0.2	7	0.25
04-ARD-120-028	Hearne	Granite	Country Rock	71.97	0.28	14.31	1.97	0.010	0.62	1.23	3.52	4.96	0.07	0.07	0.46	99.47	4.20	1.7	5.9	43	0.1	9.2	2.9	154	1.12	0.9	2.0	0.3	19.3	6	0.1	0.2	0.1	11	0.12	0.009	35	59.4	0.30	30	0.095	2	0.48	0.016	0.29	0.05	0.01	2.0	0.2	5	0.25
04-ARD-120-029	Hearne	Granite	Country Rock	72.06	0.28	14.38	2.08	0.010	0.60	1.32	3.53	4.71	0.11	0.06	0.44	99.58	4.70	2.1	8.7	54	0.1	7.9	3.3	99	1.20	1.4	2.8	1.3	25.0	4	0.1	0.3	0.1	14	0.09	0.011	44	63.2	0.32	35	0.109	2	0.56	0.018	0.35	0.05	0.01	1.9	0.3	6	0.25
04-ARD-120-030	Hearne	Granite	Country Rock	70.45	0.36	14.85	2.50	0.010	0.66	1.02	3.25	5.98	0.07	0.09	0.43	99.67	3.50	1.2	8.5	57	0.1	6.9	3.4	152	1.48	1.3	1.9	0.3	31.1	3	0.1	0.3	0.1	13	0.09	0.012	51	49.2	0.34	31	0.111	2	0.55	0.014	0.28	0.05	0.01	1.9	0.2	6	0.25
04-ARD-120-031	Hearne	Granite	Country Rock	73.44	0.27	13.64	1.83	0.010	0.57	1.23	3.46	4.48	0.05	0.06	0.44	99.48	4.90	2.5	5.6	45	0.1	7.2	2.9	114	1.06	1.0	1.3	0.8	16.0	5	0.1	0.5	0.1	10	0.07	0.009	28	59.8	0.30	31	0.094	2	0.46	0.015	0.29	0.05	0.01	1.7	0.2	5	0.25
04-ARD-120-032	Hearne	Granite	Country Rock	72.97	0.20	13.97	1.53	0.010	0.58	1.08	3.41	5.17	0.05	0.07	0.46	99.50	4.50	3.5	6.7	36	0.1	10.0	2.5	106	0.85	3.0	1.2	0.5	18.2	6	0.1	0.1	0.1	9	0.09	0.009	33	50.8	0.32	26	0.062	2	0.37	0.015	0.18	0.05	0.01	1.3	0.1	3	0.25
04-ARD-120-033	Hearne	Granite	Country Rock	72.62	0.23	14.14	1.54	0.010	0.56	1.12	3.41	5.38	0.05	0.07	0.43	99.56	3.20	10.0	7.8	40	0.1	10.2	2.7	112	0.88	0.6	1.4	0.6	22.0	6	0.1	0.2	0.1	10	0.11	0.009	34	42.3	0.36	26	0.086	2	0.38	0.014	0.20	0.05	0.01	1.6	0.2	4	0.25
04-ARD-120-034	Hearne	Granite	Country Rock	71.76	0.23	14.31	1.69	0.010	0.60	0.93	3.07	6.15	0.07	0.07	0.63	99.52	3.10	4.6	9.4	37	0.1	4.0	2.7	160	0.92	0.5	2.5	0.3	31.2	6	0.1	0.3	0.1	9	0.15	0.014	47	36.1	0.34	15	0.063	2	0.38	0.011	0.09	0.05	0.01	1.1	0.1	4	0.25
04-ARD-120-035	Hearne	Granite	Country Rock	72.30	0.27	14.23	1.55	0.010	0.62	1.08	3.38	5.53	0.05	0.06	0.43	99.51	3.40	2.2	9.1	34	0.1	8.2	2.9	100	0.82	0.6	1.6	0.3	27.7	4	0.1	0.1	0.1	12	0.09	0.010	45	41.6	0.37	21	0.072	3	0.37	0.013	0.21	0.05	0.01	1.2	0.1	4	0.25
04-ARD-120-036	Hearne	Granite	Country Rock	73.40	0.18	13.76	1.59	0.010	0.34	1.03	3.22	5.46	0.03	0.06	0.30	99.38	4.10	1.9	6.3	32	0.1	3.1	1.8	87	0.82	0.6	0.9	0.3	16.9	3	0.1	0.2	0.1	5	0.07	0.009	31	51.3	0.20	10	0.049	1	0.27	0.014	0.11	0.05	0.01	0.8	0.1	3	0.25
04-ARD-120-037	Hearne	Granite	Country Rock	72.54	0.14	14.47	1.27	0.010	0.43	1.19	3.47	5.57	0.10	0.09	0.34	99.62	3.60	3.0	6.2	29	0.1	3.6	2.0	105	0.72	0.5	0.7	0.5	19.2	5	0.1	0.2	0.1	9	0.09	0.011	31	49.8	0.25	16	0.058	1	0.31	0.014	0.15	0.05	0.01	1.1	0.1	3	0.25
04-ARD-120-038	Hearne	Granite	Country Rock	65.43	0.43	16.57	4.34	0.020	1.46	3.18	4.78	2.24	0.30	0.04	0.72	99.51	3.20	29.1	3.7	93	0.1	16.2	8.6	342	2.46	0.6	1.5	0.3	9.9	14	0.1	0.1	0.1	33	0.45	0.124	36	50.0	0.78	125	0.218	1	1.07	0.020	0.76	0.05	0.01	3.5	0.4	8	0.25
04-ARD-120-039	Hearne	Granite	Country Rock	72.12	0.25	14.35	1.88	0.010	0.60	1.51	3.44	4.82	0.09	0.09	0.37	99.53	4.10	7.2	11.1	50	0.1	5.2	3.5	163	1.15	0.6	1.2	0.9	32.6	6	0.1	0.1	0.1	10	0.15	0.039	54	52.3	0.39	38	0.121	2	0.57	0.017	0.38	0.05	0.01	1.8	0.2	5	0.25
04-ARD-120-040	Hearne	Granite	Country Rock	73.08	0.31	13.77	1.86	0.010	0.60	1.26	3.07	5.15	0.05	0.09	0.41	99.66	4.60	2.2	9.9	40	0.1	5.2	3.4	113	1.00	0.7	1.4	0.3	32.5	5	0.1	0.1	0.1	14	0.13	0.013	55	54.0	0.34	39	0.108	3	0.47	0.017	0.28	0.05	0.01	1.9	0.2	4	0.25
04-ARD-120-041	Hearne	Granite	Country Rock	71.33	0.31	14.23	2.30	0.010	0.81	1.17	3.09	5.38	0.11	0.10	0.63	99.47	3.20	2.9	9.6	53	0.1	5.4	3.7	132	1.36	0.8	1.4	0.3	36.3	6	0.1	0.3	0.1	17	0.15	0.042	64	40.6	0.43	38	0.090	1	0.53	0.011	0.24	0.05	0.01	1.7	0.2	5	0.25
04-ARD-120-042	Hearne	Granite	Country Rock	70.01	0.34	14.35	2.63	0.010	0.92	1.15	2.70	6.17	0.12	0.12	1.00	99.52	4.20	4.9	8.0	55	0.1	7.3	4.2	198	1.59	1.0	1.3	1.3	39.0	9	0.1	0.1	0.1	20	0.28	0.050	72	57.8	0.51	45	0.055	4	0.58	0.015	0.30	0.05	0.01	1.6	0.2	7	0.25
04-ARD-120-043	Hearne	Granite	Country Rock	71.27	0.33	14.31	2.16	0.010	0.87	0.93	2.89	5.82	0.10	0.09	0.80	99.58	3.40	4.3	6.8	40	0.1	7.4	3.6	147	1.34	0.7	1.4	0.3	41.3	7	0.1	0.2	0.1	16	0.15	0.041	62	46.6	0.49	23	0.050	4	0.56	0.012	0.15	0.05	0.01	1.2	0.1	5	0.25
04-ARD-120-044	Hearne	Granite	Country Rock	71.97	0.31	14.00	1.88	0.010	0.80	1.08	2.78	5.80	0.07	0.10	0.81	99.61	3.70	4.2	6.0	42	0.1	7.8	3.8	132	1.08	0.7	1.0	1.5	30.4	9	0.1	0.1	0.1	17	0.24	0.031	51	47.9	0.44	26	0.082	3	0.48	0.012	0.17	0.05	0.01	1.7	0.1	4	0.25
04-ARD-120-045	Hearne	Granite	Country Rock	54.04	0.30	15.13	3.25	0.020	9.97	0.91	0.62	8.38	0.10	0.11	6.13	98.96	1.20	2.5	2.9	26	0.1	20.4	6.3	232	1.97	0.7	1.3	0.3	38.2	104	0.1	0.1	0.1	42	0.65	0.037	57	24.6	5.00	127	0.012	9	1.64	0.040	0.25	0.05	0.01	1.3	0.6	9	0.25
04-ARD-120-046	Hearne	Granite	Country Rock	38.22	0.64	3.06	8.17	0.120	30.36	5.78	0.54	1.03	0.43	0.12	9.85	98.32	0.50	61.9	9.7	49	0.1	1232.6	76.6	1100	4.97	3.8	1.3	1.0	1.0	475	0.1	0.1	0.1	77	3.84	0.181	9	429.6	14.00	1000	0.074	33	1.44	0.409	1.21	0.1	0.01	8.2	0.2	4	0.6
04-ARD-120-047	Hearne	Granite	Country Rock	36.61	0.67	3.02	8.39	0.110	32.04	4.26	0.01	0.94	0.34	0.11	11.97	98.47	0.20	50.4	9.4	47	0.1	1372.2	84.6	1080	5.29	1.0	1.5	0.7	0.6	360	0.1	0.1	0.1	52	2.82	0.131	7	482.9	14.70	971	0.087	82	1.37	0.032	1.22	0.1	0.01	8.7	0.2	4	0.25
04-ARD-121-001	Hearne	Granite	Country Rock	76.05	0.07	12.81	1.26	0.010	0.50	0.50	3.56	3.97	0.01	0.07	0.70	99.51	6.10	2.1	1.6	10	0.1	2.2	1.0	50	0.52	0.6	0.2	0.3	0.5	4	0.1	0.2	0.1	5	0.03	0.008	6	73.8	0.23	16	0.001	2	0.30	0.023	0.08	0.05	0.01	0.2	0.1	2	0.25
04-ARD-121-002	Hearne	Granite	Country Rock	60.15	0.43	18.93	2.65	0.010	2.84	1.10	6.98	3.98	0.79	0.06	1.71	99.63	2.00	3.4	1.3	34	0.1	5.8	3.2	192	1.69	0.5	0.5	0.3	2.7	7	0.1	0.2	0.1	18	0.73	0.321	7	32.6	1.59	12	0.002	3	1.29	0.026	0.04	0.05	0.01	1.0	0.1	7	0.25
04-ARD-121-003	Hearne	Granite	Country Rock	67.69	0.37	16.04	2.93	0.010	2.35	0.55	4.55	2.93	0.15	0.03	2.02	99.62	3.70	4.5	3.0	36	0.1	9.6	4.9	175	1.59	0.8	0.5	0.7	13.1	5	0.1	0.3	0.1	17	0.17	0.069	51	51.7	1.19	12	0.002	5	1.15	0.027	0.10	0.05	0.01	0.9	0.1	7	0.25
04-ARD-121-004	Hearne	Granite	Country Rock	65.84	0.31	17.21	2.73	0.010	2.05	1.27	4.82	3.24	0.23	0.04	1.71	99.46	2.30	7.1	3.7	43	0.1	9.0	5.6	195	1.44	0.5	0.6	1.4	7.5	6	0.1	0.4	0.1	14	0.22	0.089	25	33.7	1.08	23	0.034	8	0.95	0.019	0.18	0.05	0.01	1.4	0.1	7	0.25
04-ARD-121-005	Hearne	Granite	Country Rock	71.47	0.20	15.10	1.86	0.010	1.27	0.87	4.44	3.01	0.07	0.05	1.27	99.62	4.00	4.3	2.2	28	0.1	6.4	3.3	143	0.97	0.3	0.3	1.1	6.2	5	0.1	0.3	0.1	10	0.10	0.033	20	52.2	0.67	13	0.002	4	0.70	0.023	0.07	0.05	0.01	0.7	0.1	5	0.25
04-ARD-121-006	Hearne	Granite	Country Rock	66.83	0.37	16.61	2.75	0.010	2.16	0.52	5.59	2.65	0.25	0.02	1.72	99.48	2.70	2.5	1.3	41	0.1	14.4	6.7	240	1.59	0.7	0.3	0.3	15.1	5	0.1	0.1	0.1	22	0.22	0.102	63	41.6	1.14	12	0.002	2	1.03	0.019	0.07	0.05	0.01	0.8	0.1	7	0.25
04-ARD-121-007	Hearne	Granite	Country Rock	63.56	0.15	18.95	1.44	0.010	1.62	0.15	5.69	7.00	0.07	0.13	1.00	99.77	2.20	3.7	1.3	17	0.1	2.0	1.8	93	0.80	0.5	0.4	0.9	22.0	5	0.1	0.1	0.1	14	0.07	0.030	67	29.0	0.92	16	0.001	1	0.68	0.016	0.04	0.05	0.01	0.8	0.1	6	0.25
04-ARD-121-008	Hearne	Granite	Country Rock	73.91	0.09	13.52	0.75	0.010	0.61	0.31	2.57	6.84	0.15	0.17	0.64	99.57	4.40	7.1	2.7	10	0.1	3.3	1.5	67	0.39	0.3	0.3	1.1	0.9	6	0.1	0.5	0.1	4	0.09	0.040	6	52.2	0.28	20	0.001	2	0.30	0.012	0.06	0.05	0.01	0.4	0.1	2	0.25
04-ARD-121-009	Hearne	Granite	Country Rock	69.93	0.20	14.72	1.80	0.010	1.79	0.28	2.92	6.50	0.14	0.13	1.23	99.65	4.30	5.6	3.7	27	0.1	5.0	3.3	168	1.12	0.5	0.3	0.7	3.0	6	0.1	0.6	0.1	7	0.15	0.063	25	54.8	1.03	21	0.002	1	0.85	0.016	0.07	0.05	0.01	0.6	0.1	5	0.25
04-ARD-121-010	Hearne	Granite	Country Rock	73.06	0.15	14.11	1.03	0.010	0.94	0.37	3.43	5.38	0.03	0.12	0.85	99.48	4.00	13.5	5.7	22	0.1	2.8	2.2	102	0.59	0.5	0.6	1.2	24.8	5	0.1	0.4	0.1	6	0.05	0.017	55	48.6	0.47	14	0.005	2	0.44	0.014	0.07	0.05	0.01	0.5	0.1	3	0.25
04-ARD-121-011	Hearne	Granite	Country Rock	67.15	0.34	16.56	3.05	0.020	2.34	1.24	5.30	1.66	0.17	0.02	1.73	99.58	2.80	3.9	2.1	55	0.1	11.1	6.3	272	1.52	0.8	0.7	1.8	7.3	7	0.1	0.1	0.1	30	0.16	0.070	53	38.9	1.21	28	0.021	2	1.02	0.016	0.11	0.05	0.01	0.9	0.1	7	0.25
04-ARD-121-012	Hearne	Granite	Country Rock	69.40	0.31	15.60	2.55	0.010	1.94	0.80	5.32	1.91	0.07	0.03	1.55	99.49	3.70	24.4	4.4	43	0.1	11.2	8.8	217	1.41	0.8	0.9	0.3	25.4	8	0.1	0.2	0.1	20	0.12	0.040	72	40.7	1.09	11	0.006	2	0.89	0.018	0.06	0.05	0.01	1.0	0.1	7	0.25
04-ARD-121-013	Hearne	Granite	Country Rock	56.18	1.05	16.45	8.65	0.070	4.42	2.34	2.59	3.58	0.40	0.05	3.79	99.57	3.30	2.2	1.8	99	0.1	10.2	21.7	594	3.60	1.1	4.9	0.6	10.0	22	0.1	0.1	0.1	101	1.29	0.169	65	38.0	2.36	29	0.127	7	1.93	0.017	0.13	0.05	0.01	6.7	0.1	10	0.25
04-ARD-121-014	Hearne	Granite	Country Rock	74.84	0.11	12.92	0.94	0.010	0.60	0.37	2.39	6.65	0.03	0.14	0.60	99.60	3.50	1.9	2.3	16	0.1	2.3	1.6	93	0.53	0.3	0.4	0.3	6.0	4	0.1	0.2	0.1	7	0.07	0.010	21	45.0	0.31	13	0.004	2	0.31	0.010	0.05	0.05	0.01	0.3	0.1	3	0.25
04-ARD-121-015	Hearne	Granite	Country Rock	74.23	0.18	13.27	1.41	0.010	0.37	1.14	3.28	5.07	0.12	0.08	0.40	99.56	6.40	5.6	23.4	27	0.1	2.9	1.9	102	0.76	0.9	0.6	1.4	13.5	7	0.1	4.4	0.1	10	0.13	0.014	25	76.1	0.21	19	0.053	2	0.31	0.022	0.13	0.05	0.01	0.9	0.1	3	0.25
04-ARD-121-016	Hearne	Granite	Country Rock	70.58	0.31	14.78	2.11	0.010	1.67	0.55	3.83	4.23	0.03	0.06	1.42	99.58	2.40	6.0	3.2	33	0.1	4.1	3.1	148	1.06	0.6	0.9	0.3	22.9	4	0.1	0.2	0.1	14	0.11	0.014	46	34.4	0.92	8	0.008	3	0.75	0.013	0.07	0.05	0.01	0.9	0.1	5	0.25
04-ARD-121-017	Hearne	Granite	Country Rock	69.77	0.31	15.35	2.55	0.010	0.68	1.58	3.88	4.84	0.05	0.09	0.44	99.55	3.60	16.2	8.9	58	0.1	5.5	4.4	197	1.37	1.3	1.0	1.3	27.9	6	0.1	0.2	0.1	18	0.07	0.016	52	54.7	0.37	40	0.076	0.5	0.49	0.018	0.33	0.05	0.01	1.6	0.2	5	0.25
04-ARD-121-018	Hearne	Granite	Country Rock	73.36	0.17	13.89	1.04	0.010	0.52	0.68	3.02	6.01	0.05	0.11	0.52	99.38	3.40	5.2	5.3	21	0.1	2.2	1.9	91	0.55	0.7	0.6	0.7	16.4	4	0.1	0.3	0.1	6	0.04	0.011	27	48.8	0.26	13	0.009	1	0.26	0.012	0.06	0.05	0.01	0.5	0.1	2	0.25

Whole Rock and Bulk Metal Analysis

Sample ID	Pit	Lithology		SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P205	Ba(F)	LOI	Total	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	Ga	Se
				%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	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
04-ARD-121-019	Hearne	Granite	Country Rock	73.75	0.12	13.97	1.23	0.010	0.52	1.09	3.85	4.13	0.01	0.07	0.77	99.52	4.00	11.4	2.3	18	0.1	4.1	2.3	102	0.67	0.3	0.3	0.7	9.4	5	0.1	0.2	0.1	8	0.14	0.010	17	54.0	0.27	9	0.005	1	0.28	0.015	0.05	0.05	0.01	0.3	0.1	3	0.25
04-ARD-121-020	Hearne	Granite	Country Rock	70.41	0.30	15.05	2.53	0.010	1.11	1.01	3.66	4.94	0.05	0.10	0.52	99.69	2.70	13.0	6.2	42	0.1	5.2	4.7	190	1.26	1.0	0.7	0.9	31.6	6	0.1	0.3	0.1	15	0.10	0.017	54	42.4	0.62	22	0.035	1	0.58	0.013	0.14	0.05	0.01	1.4	0.1	5	0.25
04-ARD-121-021	Hearne	Granite	Country Rock	67.51	0.34	16.23	3.11	0.010	1.44	1.89	4.82	3.00	0.18	0.04	1.00	99.57	3.80	11.4	6.3	55	0.1	10.1	6.0	225	1.60	1.0	1.2	0.8	22.4	6	0.1	0.4	0.1	20	0.22	0.072	46	55.4	0.81	36	0.074	0.5	0.83	0.023	0.37	0.05	0.01	2.3	0.2	7	0.25
04-ARD-121-022	Hearne	Granite	Country Rock	70.25	0.34	14.86	2.58	0.010	1.02	1.05	3.72	4.51	0.05	0.09	0.92	99.40	3.70	5.5	9.7	57	0.1	5.7	4.7	202	1.41	2.0	1.3	1.1	52.9	9	0.1	0.2	0.1	18	0.09	0.022	84	59.3	0.56	34	0.038	3	0.64	0.018	0.22	0.05	0.01	1.3	0.1	5	0.25
04-ARD-121-023	Hearne	Granite	Country Rock	75.26	0.14	13.13	1.02	0.010	0.40	1.33	3.47	4.01	0.03	0.07	0.50	99.37	3.50	5.4	6.1	21	0.1	6.7	2.0	88	0.57	0.3	0.5	0.7	10.5	7	0.1	0.4	0.1	8	0.07	0.012	20	53.3	0.22	15	0.020	0.5	0.22	0.013	0.06	0.05	0.01	0.6	0.1	2	0.25
04-ARD-121-024	Hearne	Granite	Country Rock	71.13	0.23	15.22	1.80	0.010	0.57	1.63	3.70	4.55	0.03	0.07	0.55	99.49	4.30	12.0	6.0	41	0.1	6.1	3.7	160	1.02	0.9	0.5	0.3	16.0	7	0.1	0.4	0.1	13	0.05	0.012	29	63.4	0.32	50	0.053	2	0.42	0.018	0.26	0.05	0.01	1.3	0.1	3	0.25
04-ARD-121-046	Hearne	Granite	Country Rock	71.63	0.31	14.06	1.73	0.010	1.19	0.68	3.08	5.63	0.07	0.09	1.00	99.48	5.00	2.9	11.7	26	0.1	9.9	4.0	121	1.07	1.5	2.2	1.1	35.0	8	0.1	1.4	0.1	17	0.17	0.031	52	67.3	0.70	20	0.021	0.5	0.55	0.021	0.12	0.05	0.01	1.5	0.1	5	0.25
04-ARD-121-047	Hearne	Granite	Country Rock	70.91	0.36	14.40	2.22	0.010	0.81	1.46	3.30	5.21	0.10	0.11	0.75	99.64	3.50	13.7	14.3	50	0.1	9.7	4.3	163	1.07	1.5	0.8	0.3	36.4	9	0.1	1.4	0.1	16	0.28	0.041	55	50.4	0.48	35	0.086	0.5	0.50	0.016	0.26	0.05	0.01	1.9	0.1	4	0.25
04-ARD-121-048	Hearne	Granite	Country Rock	70.55	0.37	14.47	2.29	0.010	1.35	0.77	3.49	4.94	0.11	0.09	1.12	99.56	3.50	2.1	6.8	20	0.1	11.4	3.6	99	1.03	1.4	1.0	1.0	36.3	6	0.1	0.7	0.1	15	0.15	0.049	53	44.8	0.77	15	0.014	0.5	0.56	0.017	0.08	0.05	0.01	1.3	0.1	5	0.25
04-ARD-142-001	Hearne	Granite	Country Rock	59.99	0.40	17.12	5.28	0.030	1.27	2.86	3.63	6.07	1.15	0.19	1.52	99.51	3.30	81.9	2.7	88	0.2	34.9	89.1	375	3.08	0.7	0.3	0.3	0.5	17	0.1	0.2	0.1	29	1.03	0.441	13	36.4	0.78	122	0.121	3	0.94	0.016	0.74	0.05	0.01	2.3	0.5	8	0.7
04-ARD-142-002	Hearne	Granite	Country Rock	69.41	0.31	15.85	2.25	0.010	0.73	2.58	4.73	2.90	0.25	0.09	0.43	99.54	3.70	3.8	4.6	64	0.1	5.3	4.0	225	1.23	0.7	0.3	0.3	4.9	9	0.1	0.5	0.1	18	0.27	0.080	22	48.9	0.44	79	0.113	0.5	0.56	0.019	0.40	0.05	0.01	2.0	0.3	5	0.25
04-ARD-142-003	Hearne	Granite	Country Rock	69.01	0.34	16.40	2.47	0.010	0.87	2.76	5.13	2.06	0.10	0.06	0.40	99.61	3.20	1.0	4.0	61	0.1	4.8	3.8	252	1.18	0.6	0.5	0.3	6.3	7	0.1	0.4	0.1	19	0.15	0.041	25	42.0	0.53	103	0.105	0.5	0.58	0.017	0.48	0.05	0.01	1.8	0.3	5	0.25
04-ARD-142-004	Hearne	Granite	Country Rock	68.62	0.34	16.35	2.73	0.020	0.81	2.98	5.17	2.01	0.18	0.07	0.31	99.59	3.10	1.7	3.3	70	0.1	6.1	4.3	238	1.35	0.8	0.5	0.3	6.4	7	0.1	0.3	0.1	23	0.20	0.069	29	40.1	0.51	110	0.127	0.5	0.57	0.016	0.47	0.05	0.01	2.1	0.2	6	0.25
04-ARD-142-005	Hearne	Granite	Country Rock	70.40	0.28	15.44	2.15	0.020	0.79	2.36	4.51	2.86	0.09	0.11	0.47	99.48	3.10	1.5	3.9	53	0.1	10.1	3.8	203	1.16	1.0	0.5	0.3	8.9	10	0.1	0.1	0.1	19	0.17	0.034	35	45.8	0.51	80	0.098	0.5	0.46	0.016	0.33	0.05	0.01	1.5	0.2	5	0.25
04-ARD-142-006	Hearne	Granite	Country Rock	73.34	0.33	13.72	2.08	0.010	0.57	1.61	3.67	3.63	0.05	0.14	0.47	99.62	2.30	4.4	7.5	51	0.1	4.5	3.3	149	1.01	1.2	1.0	0.3	25.3	9	0.1	0.1	0.1	16	0.13	0.016	80	32.7	0.37	58	0.074	0.5	0.41	0.009	0.26	0.05	0.01	1.3	0.2	4	0.25
04-ARD-142-007	Hearne	Granite	Country Rock	68.87	0.36	15.84	2.82	0.020	1.14	2.63	4.78	2.27	0.14	0.05	0.58	99.50	2.20	3.0	4.4	70	0.1	10.6	5.3	268	1.48	1.0	0.5	0.3	13.8	9	0.1	0.1	0.1	23	0.17	0.054	40	34.3	0.71	107	0.138	0.5	0.71	0.014	0.59	0.1	0.01	2.6	0.3	7	0.25
04-ARD-142-008	Hearne	Granite	Country Rock	70.38	0.40	14.56	2.42	0.010	0.86	1.57	3.54	4.82	0.17	0.15	0.50	99.38	2.50	8.6	8.2	59	0.1	7.1	4.2	189	1.26	1.2	1.1	0.3	31.9	8	0.1	0.1	0.1	18	0.19	0.068	73	37.6	0.54	70	0.097	0.5	0.56	0.013	0.44	0.05	0.01	1.8	0.3	5	0.25
04-ARD-142-009	Hearne	Granite	Country Rock	73.93	0.23	12.96	1.39	0.010	0.51	1.02	2.67	5.61	0.18	0.15	0.57	99.23	3.70	8.5	6.3	27	0.1	7.7	2.9	105	0.68	2.9	1.0	0.3	22.2	9	0.1	0.1	0.1	10	0.24	0.075	51	50.2	0.31	21	0.024	0.5	0.29	0.011	0.09	0.05	0.01	0.6	0.1	3	0.25
04-ARD-142-010	Hearne	Granite	Country Rock	71.08	0.34	14.31	2.18	0.010	0.80	1.53	3.50	4.78	0.12	0.11	0.57	99.33	4.70	5.5	10.3	53	0.1	8.9	4.1	189	1.17	1.2	1.2	0.8	35.1	8	0.1	0.2	0.1	16	0.25	0.062	73	65.5	0.50	54	0.101	0.5	0.54	0.020	0.39	0.1	0.01	1.9	0.2	5	0.25
04-ARD-142-011	Hearne	Granite	Country Rock	71.56	0.30	14.23	1.87	0.010	0.81	1.40	3.42	5.19	0.18	0.14	0.49	99.60	4.20	2.0	8.3	46	0.1	7.2	3.4	151	1.01	1.0	1.0	0.5	27.4	9	0.1	0.1	0.1	16	0.19	0.048	62	60.9	0.46	58	0.097	0.5	0.50	0.018	0.34	0.1	0.01	1.7	0.2	4	0.25
04-ARD-142-012	Hearne	Granite	Country Rock	70.26	0.40	14.69	2.18	0.010	0.87	1.49	3.32	5.30	0.15	0.12	0.52	99.31	3.50	6.0	9.9	48	0.1	9.1	4.8	184	1.16	0.8	1.0	0.9	33.8	5	0.1	0.2	0.1	19	0.21	0.064	70	47.5	0.48	57	0.104	3	0.58	0.016	0.40	0.1	0.01	1.5	0.3	4	0.25
04-ARD-142-013	Hearne	Granite	Country Rock	70.16	0.40	14.76	2.31	0.010	0.82	1.60	3.51	5.00	0.15	0.11	0.52	99.35	3.90	5.2	10.7	53	0.1	9.7	5.0	201	1.31	1.0	1.2	1.0	38.8	6	0.1	0.1	0.1	23	0.22	0.062	74	52.4	0.46	58	0.110	1	0.56	0.017	0.43	0.05	0.01	1.7	0.3	5	0.25
04-ARD-142-014	Hearne	Granite	Country Rock	70.55	0.37	14.61	1.87	0.010	0.87	1.50	3.27	5.51	0.20	0.11	0.56	99.43	3.50	8.7	5.8	46	0.1	8.7	6.0	183	1.11	0.7	0.9	0.3	26.6	6	0.1	0.1	0.1	21	0.27	0.085	58	44.4	0.50	55	0.102	5	0.59	0.015	0.41	0.05	0.01	1.8	0.3	4	0.25
04-ARD-142-015	Hearne	Granite	Country Rock	71.04	0.34	14.43	2.52	0.010	0.64	1.59	3.57	4.80	0.11	0.10	0.41	99.56	3.40	2.0	13.3	64	0.1	6.8	4.1	187	1.37	0.7	1.1	0.3	34.4	5	0.1	0.4	0.1	20	0.17	0.052	61	43.2	0.38	38	0.093	3	0.48	0.015	0.32	0.05	0.01	2.1	0.2	5	0.5
04-ARD-142-016	Hearne	Granite	Country Rock	70.08	0.44	14.31	3.05	0.010	0.86	1.75	3.53	4.53	0.18	0.10	0.62	99.46	3.50	3.9	11.9	73	0.1	8.9	5.4	214	1.52	0.8	1.2	0.7	37.5	7	0.1	0.1	0.1	21	0.32	0.082	72	46.3	0.47	54	0.113	1	0.58	0.017	0.39	0.05	0.01	2.5	0.3	6	0.25
04-ARD-142-017	Hearne	Granite	Country Rock	70.97	0.38	14.42	1.85	0.010	0.76	1.30	3.00	5.86	0.15	0.15	0.60	99.45	3.50	2.4	10.2	48	0.1	5.4	3.8	192	1.13	0.9	0.7	0.7	31.7	7	0.1	0.1	0.1	19	0.26	0.062	61	40.6	0.43	54	0.089	1	0.54	0.014	0.38	0.05	0.01	1.6	0.2	4	0.25
04-ARD-142-018	Hearne	Granite	Country Rock	72.97	0.27	14.06	1.67	0.010	0.46	1.48	3.36	4.73	0.02	0.10	0.31	99.44	5.30	2.3	8.6	36	0.1	3.9	2.7	127	0.92	0.8	0.8	2.1	28.3	5	0.1	0.1	0.1	13	0.05	0.011	53	68.1	0.27	37	0.063	2	0.37	0.019	0.28	0.05	0.01	1.2	0.2	3	0.25
04-ARD-142-019	Hearne	Granite	Country Rock	73.01	0.28	13.34	3.25	0.010	0.36	1.65	3.47	3.84	0.02	0.06	0.28	99.57	3.60	0.9	8.7	48	0.1	7.9	2.6	91	1.52	0.8	1.2	1.1	32.3	4	0.1	0.1	0.1	37	0.06	0.009	59	48.3	0.21	18	0.043	1	0.22	0.015	0.13	0.05	0.01	0.6	0.1	5	0.25
04-ARD-142-020	Hearne	Granite	Country Rock	70.27	0.40	14.93	2.20	0.010	0.98	1.61	3.55	4.67	0.09	0.07	0.73	99.51	2.60	3.6	9.0	56	0.1	9.2	4.6	175	1.22	1.0	1.3	1.8	44.3	7	0.1	0.1	0.1	18	0.16	0.012	73	37.3	0.51	44	0.102	3	0.60	0.013	0.40	0.05	0.01	2.2	0.3	5	0.25
04-ARD-142-021	Hearne	Granite	Country Rock	73.59	0.25	13.65	1.71	0.010	0.51	1.37	3.28	4.73	0.03	0.07	0.40	99.60	4.10	1.0	7.0	35	0.1	7.4	3.0	114	0.90	0.5	0.9	0.9	21.9	5	0.1	0.1	0.1	12	0.10	0.009	35	52.1	0.31	22	0.072	4	0.36	0.018	0.20	0.05	0.01	1.5	0.1	3	0.25
04-ARD-142-022	Hearne	Granite	Country Rock	73.23	0.18	13.94	1.38	0.010	0.33	1.27	3.36	5.21	0.02	0.07	0.62	99.62	3.90	1.0	8.4	25	0.1	2.7	1.8	94	0.72	0.5	0.7	1.6	20.8	4	0.1	0.2	0.1	9	0.22	0.010	33	46.9	0.17	8	0.041	0.5	0.23	0.013	0.05	0.05	0.01	0.7	0.1	2	0.25
04-ARD-142-023	Hearne	Granite	Country Rock	72.33	0.28	14.21	1.91	0.010	0.52	1.44	3.47	4.86	0.03	0.07	0.49	99.62	3.30	1.2	10.3	39	0.1	4.3	3.0	157	1.02	0.8	1.1	1.0	33.8	4	0.1	0.1	0.1	13	0.14	0.011	55	40.1	0.29	21	0.077	2	0.37	0.013	0.20	0.05	0.01	1.7	0.1	3	0.25
04-ARD-142-024	Hearne	Granite	Country Rock	72.01	0.28	14.23	1.87	0.010	0.50	1.28	3.31	5.23	0.02	0.07	0.51	99.32	3.80	1.6	9.3	35	0.1	4.7	2.6	110	1.04	0.6	1.1	0.9	30.0	4	0.1	0.1	0.1	12	0.13	0.011	51	46.9	0.28	18	0.056	4	0.36	0.014	0.16	0.05	0.01	1.3	0.1	4	0.25
04-ARD-142-025	Hearne	Granite	Country Rock	73.48	0.27	13.89	1.41	0.010	0.61	1.35	3.39	4.76	0.02	0.08	0.43	99.70	3.60	1.3	8.8	35	0.1	6.0	2.7	132	0.82	0.6	1.1	0.9	28.4	4	0.1	0.1	0.1	16	0.09	0.009	49	45.6	0.33	25	0.075	5	0.41	0.014	0.25	0.05	0.01	1.7	0.2	3	0.25
04-ARD-142-026	Hearne	Granite	Country Rock	72.65	0.25	13.88	1.87	0.010	0.74	1.33	3.34	4.90	0.03	0.07	0.63	99.70	3.30	1.7	9.2	38	0.1	13.9	3.1	121	0.99	0.7	1.1	0.3	27.0	7	0.1	0.1	0.1	12	0.16	0.011	43	44.9	0.37	17	0.071	3	0.34	0.013	0.13	0.1	0.01	1.2	0.1	3	0.25
04-ARD-142-027	Hearne	Granite	Country Rock	72.87	0.23	13.89	1.77	0.010	0.46	1.27	3.34	5.19	0.07	0.08	0.40	99.58	4.20	1.2	8.0	36	0.1	8.0	2.6	113	0.90	0.7	0.8	0.7	22.0	5	0.1	0.2	0.1	12	0.10	0.008	37	50.2	0.25	21	0.062	2	0.32	0.015	0.20	0.05	0.01	1.4	0.1	3	0.25
04-ARD-142-028	Hearne	Granite	Country Rock	72.94	0.25	14.00	1.82	0.010	0.44	1.36	3.48	4.80	0.03	0.07	0.40	99.60	3.90	2.5	10.2	38	0.1	4.5	2.7	129	1.05	0.6	1.1	0.3	27.5	4	0.1	0.4	0.1	11	0.13	0.008	44	50.2	0.26	24	0.088	2	0.41	0.016	0.22	0.05	0.01	1.6	0.1	4	0.25
04-ARD-142-029	Hearne	Granite	Country Rock	69.48	0.38	15.02	3.16	0.010	0.66	1.44	3.67	5.01	0.05	0.08	0.68	99.64	5.80	10.4	18.0	64	0.1	6.8	4.8	141	1.77	1.4	2.3	1.2	52.3	6	0.1	0.3	0.1	20	0.23	0.016	81	68.6	0.34	37	0.107	2	0.54	0.026	0.31	0.1	0.01	2.0	0.2	6	0.25
04-ARD-142-030	Hearne	Granite	Country Rock	71.06	0.37	14.35	2.88	0.010	0.68	1.54	3.68	4.40	0.10	0.08	0.64	99.79	4.60	8.0	14.8	60	0.1	7.2	4.0	156	1.72	1.5	2.0	0.3	47.1	5	0.1	0.1	0.1	17	0.23	0.036	72	54.3	0.37	33	0.102	5	0.56	0.017	0.33	0.1	0.01	2.0	0.2	6	0.25
04-ARD-142-031	Hearne	Granite	Country Rock	73.65	0.20	13.76	1.51	0.010	0.37	1.16	3.32	4.96	0.03	0.08	0.55	99.60	3.60	2.2	7.2	31	0.1	3.2	2.6	119	0.87	1.0	1.0	0.3	23.0	4	0.1	0.1	0.1	10	0.14	0.010	32	45.3	0.23	10	0.062	4	0.32	0.013	0.06	0.05	0.01	1.0	0.1	3	0.25
04-ARD-142-032	Hearne	Granite	Country Rock	69.09	0.37	15.19	2.78	0.010	0.68	1.04	3.07	6.51	0.05	0.11	0.52	99.42	8.40	10.1	13.7	62	0.1	6.9	4.7	139	1.71	1.2	2.2	0.3	50.5	5	0.1	0.1	0.1	21	0.12	0.014	81	104.0	0.37	48	0.106	3	0.57	0.015	0.34	0.05	0.01	1.7	0.2	6	0.25
04-ARD-142-033	Hearne	Granite	Country Rock	70.54	0.36	14.71	2.06	0.010	0.83	1.25	3.32	5.48	0.07	0.09	0.72	99.44	4.80	6.6	12.5	50	0.1	3.8	4.0	180	1.24	1.2	2.9	0.9	42.7	7	0.1	0.1	0.1	19	0.21	0.027	65	62.4	0.44	35	0.109	6	0.59	0.019	0.34	0.05	0.01	2.2	0.2	5	0.25
04-ARD-142-034	Hearne	Granite	Country Rock	74.09	0.23	13.28	1.62	0.010	0.44	1.12	3.01	5.23	0.03	0.08	0.40	99.54	3.90	2.0	7.0	38	0.1	3.1	2.7	141	0.95	0.3	0.9	0.5	20.2	4	0.1	0.1	0.1	11	0.09	0.010	35	49.4	0.25	23	0.072	3	0.39	0.013	0.21	0.05	0.01	1.4	0.1	4	0.25
04-ARD-142-035	Hearne	Granite	Country Rock	71.22	0.33	14.36	2.57	0.010	0.60	1.28	3.38	4.96	0.07	0.08	0.67	99.53	5.20	6.2	13.2	49	0.1	5.0	3.6	168	1.57	0.8	1.9	0.3	40.6	5	0.1	0.3	0.1	15	0.19	0.013	67	59.7	0.30	26	0.081	3	0.47	0.018	0.23	0.05	0.01	1.6	0.1	5	0.25
04-ARD-142-036	Hearne	Granite	Country Rock	70.75	0.36	14.52	2.56	0.010	1.21	0.68	3.35	4.94	0.05	0.08	1.19	99.70	4.30	10.1	20.5	41	0.1	6.0	4.3	140	1.55	1.0	1.2	0.7	44.1	4	0.1	2.4	0.1	19	0.13	0.017	72	55.9	0.59	10	0.004	4	0.66	0.016	0.06	0.1	0.01	1.0	0.1	7	0.25
04-ARD-142-037	Hearne	Granite	Country Rock	71.00	0.31	14.27	2.46	0.010	0.63	1.39	3.16	5.36	0.12	0.11	0.73	99.55	4.00	8.9	11.9	52	0.1	5.1	4.0	148	1.48	0.8	1.1	0.3	33.2	7	0.1	0.2	0.1	20	0.31	0.053	55	53.0	0.36	34	0.112	3	0.53	0.015	0.22	0.1	0.01	1.9	0.1	5	0.25
04-ARD-142-038	Hearne	Granite	Country Rock	71.55	0.36	14.10	2.34	0.010	0.72	1.17	3.01	5.34	0.09	0.09	0.60	99.38	4.10	4.9	6.5	42	0.1	5.1	3.9	121	1.34	0.8	1.2	0.3	35.6	7	0.1	0.1	0.1	16	0.11	0.029	56	51.6	0.36	35	0.069	4	0.48	0.014	0.26	0.05	0.01	1.3	0.2	5	0.5
04-ARD-142-039	Hearne	Granite	Country Rock	71.15	0.31	14.43	2.00	0.010	0.73	0.93	2.92	5.96	0.09	0.10	0.75	99.38	4.00	4.0	7.3	40	0.1	4.4	3.7	142	1.28	1.1	1.1	0.3	37.1	6	0.1	0.2	0.1	15	0.16	0.033	61	52.4	0.38	27	0.045	5	0.48	0.016	0.20	0.05	0.01	1.6	0.1	5	0.25
04-ARD-142-040	Hearne	Granite	Country Rock	70.94	0.37	14.28	2.52	0.010	0.69	1.36	3.08	5.34	0.10	0.09	0.67	99.45	4.60	6.6	16.2	55	0.1	5.2	4.0	127	1.49	1.1	1.6	0.6	42.1	7	0.1	1.3	0.1	16	0.23	0.039	66	58.7	0.36	35	0.095	5	0.49	0.017	0.23	0.05	0.01	1.7	0.2	5	0.25
04-ARD-142-041	Hearne	Granite	Country Rock	71.93	0.30	13.96	2.25	0.010	0.64	1.25	2.91	5.50	0.10	0.09	0.62	99.56	3.80	3.9	8.8	38	0.1	4.4	3.0	120	1.20	0.8	1.2	0.5	34.6	6	0.1	0.3	0.1	14	0.18	0.034	56	44.5	0.32	27	0.078	6	0.44	0.012	0.21	0.1	0.01	1.5	0.1	5	0.25
04-ARD-142-042	Hearne	Granite	Country Rock	70.86	0.33	14.47	2.36	0.010	0.75	1.14	2.85	5.94	0.10	0.09	0.62	99.52	4.30	3.9	8.1	43	0.1	6.2	4.3	149	1.41	0.9	1.3	0.5	37.0	7	0.1	0.1	0.1	18	0.14	0.041	60	56.2	0.38	34	0.067	7	0.47	0.016	0.26	0.05	0.01	1.7	0.2	5	0.25
04-ARD-152-008	Hearne	Granite	Country Rock	76.81	0.15	11.93	1.66	0.010	0.47	1.45	3.28	2.89	0.01	0.04	0.63	99.33	4.10	5.4	11.0	19	0.1	10.7	1.6	85	0.90	0.3	0.3	1.0	6.5	7	0.1	0.8	0.1	14	0.12	0.005	13	57.9	0.32	14	0.031	7	0.21	0.016	0.05	0.05	0.01	0.7	0.1	3	0.25
04-ARD-152-009	Hearne	Granite	Country Rock	74.94	0.15	13.19	0.97	0.010	0.50	0.57	2.91	5.51	0.01	0.10	0.62	99.48	4.40	1.8	5.8	20	0.1	3.9	2.0	99	0.57	0.3	0.7	0.6	13.9	5	0.1	0.6	0.1	6	0.04	0.010	23	54.6	0.26	17	0.005	2	0.30	0.012	0.06	0.05	0.01	0.4	0.1	2	0.25
04-ARD-152-010	Hearne	Granite	Country Rock	69.47	0.37	15.25	2.95	0.010	1.30	0.85	4.32	3.82	0.05	0.06	1.24	99.69	3.80	6.3	7.0	24	0.1	5.8	4.4	148	1.32	0.8	1.1	1.3	32.7	6	0.1	0.4	0.1	14	0.10	0.019	57	58.0	0.71	12	0.008	4	0.68	0.021	0.08	0.05	0.01	1.1	0.1	7	0.25
04-ARD-152-011	Hearne	Granite	Country Rock	70.19	0.37	14.76	2.81	0.010	1.13	0.76	4.15	4.23	0.03	0.08	1.11	99.63	3.30	6.5	8.6	27	0.1	4.6	4.3	156	1.25	1.0	1.1	0.5	40.3	5	0.1	0.6	0.1	23	0.14	0.016	66	46.9	0.64	10	0.013	2	0.58	0.015	0.05	0.05	0.01	1.0	0.1	6	0.25
04-ARD-152-012	Hearne	Granite	Country Rock	70.69	0.38	14.85	1.87	0.010	1.14	0.66	3.57	5.07	0.09	0.13	1.13	99.59	2.90	3.3	7.0	24	0.1	5.4	3.5	151	1.01	1.4	1.2	1.8	41.6	6	0.1	0.5	0.1	17	0.17	0.037	86	44.4	0.64	16	0.005	5	0.57	0.013	0.05	0.05	0.01	1.0	0.1	5	0.25
04-ARD-152-013	Hearne	Granite	Country Rock	61.06	0.49	19.29	2.17	0.010	2.18	0.37	5.38	6.69	0.10	0.15	1.66	99.55	2.00	16.4	4.8	32	0.1	10.8	5.0	221	1.25	0.8	1.4	0.7	49.5	6	0.1	0.3	0.1	18	0.19	0.025	41	33.0	1.19	16	0.003	5	0.87	0.017	0.04	0.05	0.01	1.3	0.1	7	0.25
04-ARD-157-011	Hearne	Granite	Country Rock	72.75	0.17	13.46	1.45	0.010	1.22	0.14	2.28	6.75	0.02	0.15	0.97	99.37	3.80	13.9	2.1	17	0.1	5.0	2.8	92	0.75	0.3	0.5	0.6	9.0	4	0.1	0.1	0.1	6	0.03	0.010	16	58.3	0.72	23	0.001	5	0.58	0.010	0.06	0.1	0.01	0.7	0.1	4	0.25
04-ARD-157-012	Hearne	Granite	Country Rock	74.54	0.10	13.77	0.89	0.010	0.62	0.28	3.84	4.59	0.02	0.11	0.87	99.64	3.40	3.6	1.0	12	0.1	1.8	1.6	69	0.44	0.3	0.2	0.3	8.5	3	0.1	0.1	0.1	5	0.07	0.007	23	47.0	0.30	11	0.001	4	0.31	0.013	0.05	0.1	0.01	0.4	0.1	2	0.25
04-ARD-157-013	Hearne	Granite	Country Rock	68.23	0.21	15.69	1.65	0.010	3.31	0.27	1.86	4.94	0.05	0.09	3.34	99.65	2.60	3.1	1.4	17	0.1	4.8	5.3	103	0.80	0.3	0.2	0.8	8.9	9	0.1	0.1	0.1	7	0.10	0.038	29	35.3	1.58	12	0.001	17	1.65	0.009	0.09	0.05	0.01	0.7	0.1	5	0.25
04-ARD-157-014	Hearne	Granite	Country Rock	69.76	0.25	15.73	2.29	0.010	1.28	0.68	4.63	3.50	0.12	0.07	1.26	99.58	3.20	0.9	2.7	27	0.1	3.8	3.3	140	0.89	0.8	0.2	1.6	11.4	5	0.1	0.3	0.1	9	0.13	0.058	33	43.8	0.66	9	0.002	4	0.60	0.021	0.07	0.05	0.01	0.7	0.1	5	0.25
04-ARD-159-006	Hearne	Granite	Country Rock	73.83	0.18	13.38	1.05	0.010	0.75	0.64	2.03	6.98	0.05	0.12	0.67	99.69	3.90	5.0	2.6	20	0.1	6.7	2.5	103	0.59	0.3	0.3	0.5	7.2	9	0.1	0.3	0.1	6	0.08	0.019	15	48.0	0.42	47	0.023	6	0.36	0.012	0.14	0.1	0.01	1.2	0.1	2	0.25
04-ARD-193-017	Hearne	Granite	Country Rock	48.15	0.23	14.10	3.31	0.050	11.96	3.18	0.43	6.59	0.05	0.13	9.35	97.53	1.30	17.7	407.7	2916	0.3	26.8	11.0	405	2.10	1.4	1.1	1.1	18.9	75	5.7	0.1	0.1	35	2.12	0.012	42	21.9	6.82	144	0.055	45	2.42	0.040	0.27	0.05	0.01	2.4	0.3	7	0.25
04-ARD-200-001	Hearne	Granite	Country Rock	71.30	0.37	14.44	2.63	0.010	0.86	0.93	3.08	4.63	0.09	0.08	1.13	99.55	4.60	6.3	6.2	41	0.1	5.1	3.7	154	1.48	0.8	2.5	0.9	37.4	6	0.1	0.2	0.1	11	0.07	0.024	56	69.1	0.49	22	0.008	9	0.68	0.020	0.12	0.05	0.01	0.6	0.1	5	0.25
04-ARD-200-002	Hearne	Granite	Country Rock	72.83	0.20	14.18	1.54	0.010	0.43	0.94	3.31	5.32	0.14	0.10	0.54	99.54	6.60	4.2	4.9	30	0.1	3.5	2.2	111	0.88	0.6	2.5	0.3	21.8	4	0.1	0.2	0.1	7	0.04	0.009	35	89.8	0.24	34	0.030	2	0.45	0.025	0.19	0.05	0.01	0.8	0.1	4	0.25
04-ARD-200-003	Hearne	Granite	Country Rock	72.44	0.20	14.25	1.59	0.010	0.37	0.98	3.41	5.51	0.07	0.08	0.43	99.34	6.70	5.1	9.9	35	0.1	3.2	2.2	143	1.00	0.5	1.8	1.1	22.7	4	0.1	0.9	0.1	11	0.07	0.009	37	91.9	0.22	28	0.063	1	0.49	0.031	0.25	0.05	0.01	1.5	0.2	4	0.25
04-ARD-200-004	Hearne	Granite	Country Rock	69.93	0.23	15.77	1.75	0.010	0.56	0.87	4.07	5.15	0.09	0.08	0.87	99.38	5.70	5.0	5.2	29	0.1	3.5	2.2	169	1.01	0.7	2.9	0.5	24.3	4	0.1	0.3	0.1	6	0.07	0.022	45	76.3	0.31	22	0.011	3	0.48	0.029	0.13	0.1	0.01	0.9	0.1	4	0.25
04-ARD-200-005	Hearne	Granite	Country Rock	73.12	0.18	14.14	1.26	0.010	0.43	0.74	3.16	5.86	0.07	0.07	0.56	99.60	6.60	2.5	3.6	26	0.1	3.5	2.2	83	0.73	0.3	1.3	0.3	21.3	4	0.1	0.1	0.1	6	0.03	0.011	34	91.1	0.25	18	0.012	4	0.40	0.027	0.14	0.05	0.01	0.5	0.1	3	0.25
04-ARD-200-006	Hearne	Granite	Country Rock	73.01	0.20	14.02	1.64	0.010	0.46	0.56	3.21	5.78	0.07	0.06	0.72	99.74	9.10	3.5	4.0	28	0.1	3.1	1.9	153	0.93	0.5	1.4	0.5	21.3	4	0.1	0.3	0.1	6	0.05	0.015	35	89.2	0.26	15	0.006	3	0.44	0.026	0.10	0.05	0.01	0.6	0.1	4	0.25
04-ARD-200-007	Hearne	Granite	Country Rock	73.15	0.20	13.93	1.58	0.010	0.40	1.04	3.47	5.19	0.07	0.08	0.37	99.49	7.60	3.4	5.8	34	0.1	3.5	2.5	124	0.96	0.5	1.5	0.3	21.1	4	0.1	0.2	0.1	9	0.04	0.009	34	98.5	0.25	35	0.066	2	0.49	0.033	0.29	0.05	0.01	1.2	0.2	4	0.25
04-ARD-200-008	Hearne	Granite	Country Rock	73.41	0.20	13.80	1.34	0.010	0.37	0.93	3.17	5.48	0.07	0.08	0.46	99.32	7.70	5.2	5.2	28	0.1	3.8	2.1	100	0.80	0.5	1.2	0.3	16.2	4	0.1	0.2	0.1	8	0.04	0.008	28	99.5	0.24	29	0.045	4	0.42	0.030	0.24	0.05	0.01	0.6	0.2	3	0.25
04-ARD-200-009	Hearne	Granite	Country Rock	73.54	0.18	13.84	1.47	0.010	0.40	0.87	3.45	5.11	0.07	0.06	0.49	99.49	12.60	3.6	7.3	30	0.1	3.5	2.0	125	0.83	0.5	2.4	0.3	23.7	5	0.1	0.1	0.1	7	0.05	0.015	38	120.4	0.24	31	0.043	3	0.47	0.039	0.26	0.05	0.01	1.1	0.2	4	0.25
04-ARD-200-010	Hearne	Granite	Country Rock	75.16	0.15	13.30	1.04	0.010	0.28	1.13	3.53	4.32	0.05	0.06	0.49	99.52	7.80	4.2	8.8	20	0.1	2.7	1.5	69	0.57	0.5	1.4	0.3	22.7	5	0.1	0.2	0.1	5	0.10	0.010	37	104.1	0.16	20	0.035	3	0.33	0.035	0.13	0.05	0.01	0.4	0.1	3	0.25
04-ARD-200-011	Hearne	Granite	Country Rock	73.36	0.18	13.82	1.17	0.010	0.28	0.73	3.02	6.21	0.07	0.09	0.31	99.25	8.00	4.2	5.9	27	0.1	3.5	2.0	60	0.74	0.5	1.1	0.3	16.1	3	0.1	0.1	0.1	7	0.03	0.006	25	103.5	0.19	28	0.050	0.5	0.40	0.032	0.24	0.05	0.01	0.6	0.2	3	0.25
04-ARD-200-012	Hearne	Granite	Country Rock	69.61	0.20	15.89	1.69	0.010	0.44	1.05	3.74	6.07	0.10	0.09	0.55	99.44	7.70	3.2	7.5	31	0.1	3.7	2.3	120	0.91	0.6	2.0	0.3	24.6	6	0.1	0.1	0.1	7	0.08	0.016	39	98.5	0.24	38	0.049	1	0.50	0.038	0.27	0.05	0.01	0.9	0.2	3	0.25
04-ARD-200-013	Hearne	Granite	Country Rock	69.62	0.28	15.47	2.13	0.010	0.52	1.01	3.30	6.34	0.10	0.09	0.72	99.59	8.30	5.1	7.8	41	0.1	4.1	3.1	154	1.26	0.3	2.6	0.3	23.4	6	0.1	0.2	0.1	11	0.20	0.014	36	107.1	0.31	36	0.092	0.5	0.64	0.042	0.30	0.05	0.01	1.6	0.2	5	0.25
04-ARD-200-014	Hearne	Granite	Country Rock	69.76	0.25	15.72	1.97	0.010	0.47	1.36	4.11	5.19	0.10	0.09	0.57	99.60	5.90	12.7	8.8	35	0.1	3.2	2.6	123	1.10	0.9	2.9	0.6	28.7	5	0.1	0.2	0.1	10	0.15	0.014	49	71.9	0.29	42	0.074	1	0.54	0.032	0.32	0.05	0.01	1.1	0.3	4	0.25
04-ARD-200-015	Hearne	Granite	Country Rock	73.25	0.20	13.72	1.60	0.010	0.36	0.95	3.31	5.34	0.10	0.05	0.54	99.43	8.10	3.5	7.2	38	0.1	3.7	2.2	119	0.96	0.3	2.4	0.3	19.5	4	0.1	0.1	0.1	9	0.15	0.012	30	110.0	0.22	20	0.068	1	0.49	0.035	0.26	0.1	0.01	1.4	0.2	4	0.25
04-ARD-200-016	Hearne	Granite	Country Rock	70.77	0.28	15.05	2.00	0.010	0.51	1.42	4.13	4.38	0.07	0.07	0.69	99.38	8.90	6.5	9.1	43	0.1	3.9	2.8	135	1.16	0.7	2.5	0.3	29.7	6	0.1	0.2	0.1	12	0.19	0.017	50	109.1	0.31	38	0.076	2	0.61	0.047	0.32	0.05	0.01	1.1	0.3	5	0.25
04-ARD-200-017	Hearne	Granite	Country Rock	70.93	0.15	15.06	1.40	0.010	0.36	0.58	2.81	7.51	0.18	0.10	0.54	99.63	8.50	4.4	5.9	26	0.1	3.2	2.1	167	0.78	0.9	2.4	0.5	22.0	6	0.1	0.4	0.1	6	0.07	0.021	35	106.7	0.19	34	0.025	6	0.42	0.032	0.24	0.05	0.01	0.9	0.1	3	0.25
04-ARD-200-018	Hearne	Granite	Country Rock	72.55	0.11	15.14	0.99	0.010	0.20	1.59	4.13	4.38	0.09	0.05	0.34	99.58	7.90	5.3	4.4	19	0.1	2.6	1.4	102	0.58	0.3	2.1	0.3	9.4	4	0.1	0.3	0.1	5	0.07	0.010	18	98.8	0.13	18	0.043	1	0.35	0.043	0.20	0.05	0.01	1.0	0.1	3	0.25
04-ARD-200-019	Hearne	Granite	Country Rock	70.52	0.40	14.35	3.77	0.010	0.69	2.01	4.00	2.77	0.11	0.07	0.74	99.44	9.80	8.4	10.1	88	0.1	5.7	5.1	225	2.26	1.2	5.0	1.1	35.5	7	0.1	0.1	0.1	32	0.15	0.030	81	136.9	0.41	131	0.193	3	0.90	0.062	0.66	0.05	0.01	2.9	0.4	9	0.25
04-ARD-200-020	Hearne	Granite	Country Rock	69.73	0.46	14.72	3.88	0.010	0.82	1.97	3.68	3.57	0.15	0.08	0.50	99.57	6.40	12.0	6.8	105	0.1	6.1	5.9	204	2.26	0.9	4.7	10.1	23.8	5	0.1	0.1	0.1	30	0.11	0.045	61	94.4	0.47	114	0.207	3	0.90	0.035	0.72	0.05	0.01	3.2	0.5	10	0.25
04-ARD-200-021	Hearne	Granite	Country Rock	65.83	0.56	15.97	4.73	0.030	1.86	2.64	3.50	3.36	0.21	0.04	0.83	99.56	7.10	64.2	6.2	118	0.1	22.4	10.9	328	2.89	1.1	4.4	2.0	21.4	10	0.1	0.1	0.1	62	0.24	0.084	48	116.3	1.08	132	0.279	15	1.52	0.053	1.23	0.1	0.01	5.6	0.9	9	0.25
04-ARD-200-022	Hearne	Granite	Country Rock	69.93	0.44	14.53	3.41	0.020	0.75	1.84	3.68	4.03	0.20	0.09	0.60	99.52	7.00	9.7	7.5	77	0.1	5.4	5.1	227	2.01	0.6	2.8	2.2	23.5	6	0.1	0.2	0.1	31	0.30	0.074	61	96.6	0.41	88	0.164	0.5	0.77	0.039	0.58	0.05	0.01	2.8	0.4	7	0.25
04-ARD-200-023	Hearne	Granite	Country Rock	69.84	0.40	14.68	3.08	0.030	0.72	1.86	3.46	4.61	0.31	0.10	0.46	99.55	5.60	17.7	7.5	66	0.1	4.9	4.9	220	1.85	1.1	2.1	1.5	19.6	5	0.1	0.6	0.1	24	0.28	0.128	53	78.6	0.39	76	0.139	0.5	0.74	0.032	0.57	0.05	0.01	2.5	0.4	7	0.25
04-ARD-200-024	Hearne	Granite	Country Rock	71.30	0.27	14.52	2.08	0.010	0.62	1.33	3.26	5.28	0.11	0.11	0.54	99.43	6.50	10.2	10.8	47	0.1	4.0	3.5	169	1.28	2.2	3.4	2.1	35.0	5	0.1	0.3	0.1	17	0.16	0.031	71	84.0	0.35	56	0.099	0.5	0.61	0.030	0.45	0.05	0.01	1.5	0.4	4	0.25
04-ARD-200-025	Hearne	Granite	Country Rock	71.55	0.34	14.44	2.69	0.010	0.81	1.94	4.09	2.95	0.05	0.05	0.51	99.43	7.10	8.7	15.1	63	0.1	5.1	5.0	158	1.63	1.3	5.1	1.3	47.1	5	0.1	0.8	0.1	17	0.14	0.018	84	98.0	0.49	76	0.155	1	0.81	0.042	0.63	0.05	0.01	2.4	0.4	7	0.25
04-ARD-200-026	Hearne	Granite	Country Rock	69.95	0.41	14.59	3.25	0.020	0.91	1.96	3.52	4.25	0.23	0.09	0.49	99.67	3.00	8.0	6.3	69	0.1	11.1	5.4	194	1.87	0.7	2.0	1.4	13.0	5	0.1	0.4	0.1	25	0.24	0.082	43	44.6	0.51	83	0.172	0.5	0.76	0.015	0.57	0.1	0.01	2.8	0.4	7	0.25
04-ARD-200-027	Hearne	Granite	Country Rock	69.81	0.46	14.56	3.76	0.020	0.79	2.00	3.42	4.15	0.15	0.11	0.41	99.64	3.60	6.5	4.2	73	0.1	5.9	6.1	236	2.17	0.6	0.6	0.5	8.4	4	0.1	0.2	0.1	28	0.21	0.058	34	52.2	0.44	135	0.201	0.5	0.81	0.016	0.65	0.05	0.01	3.0	0.4	7	0.25
04-ARD-200-028	Hearne	Granite	Country Rock	69.98	0.40	14.52	3.27	0.030	0.69	1.84	3.18	4.67	0.30	0.11	0.57	99.56	3.60	4.9	5.5	62	0.1	5.4	4.8	223	1.78	0.6	1.8	0.3	13.2	5	0.1	0.2	0.1	25	0.32	0.113	43	50.4	0.40	75	0.135	1	0.66	0.015	0.48	0.05	0.01	2.0	0.4	6	0.25
04-ARD-200-029	Hearne	Granite	Country Rock	67.65	0.37	15.39	2.90	0.030	0.75	1.84	2.79	6.69	0.67	0.15	0.51	99.74	3.30	5.5	4.3	61	0.1	4.8	4.8	272	1.77	1.0	1.8	2.6	12.0	6	0.1	0.3	0.1	25	0.57	0.251	39	50.7	0.40	76	0.145	2	0.70	0.016	0.52	0.1	0.01	2.5	0.4	6	0.25
04-ARD-200-030	Hearne	Granite	Country Rock	70.52	0.21	14.72	1.96	0.010	0.44	0.98	2.41	7.46	0.30	0.14	0.44	99.59	3.70	2.2	4.8	32	0.1	3.1	2.5	141	1.19	0.8	1.3	0.3	19.2	6	0.1	0.2	0.1	16	0.23	0.099	46	54.7	0.25	29	0.045	1	0.34	0.012	0.20	0.1	0.01	1.1	0.1	4	0.25
04-ARD-200-031	Hearne	Granite	Country Rock	72.19	0.23	14.26	1.54	0.010	0.49	1.03	2.75	6.32	0.11	0.10	0.58	99.61	3.20	3.9	4.9	31	0.1	3.3	2.4	129	0.87	0.8	1.4	1.5	18.6	4	0.1	0.1	0.1	10	0.18	0.038	38	43.5	0.28	24	0.056	2	0.39	0.012	0.23	0.05	0.01	1.0	0.2	4	0.25
04-ARD-200-032	Hearne	Granite	Country Rock	76.95	0.09	12.03	0.67	0.010	0.25	1.12	2.28	5.57	0.05	0.07	0.51	99.60	5.10	2.4	4.3	13	0.1	2.8	1.1	81	0.39	0.6	1.0	0.5	16.6	6	0.1	0.1	0.1	3	0.22	0.015	31	65.0	0.13	18	0.017	5	0.18	0.012	0.11	0.1	0.01	0.5	0.1	2	0.25
04-ARD-200-033	Hearne	Granite	Country Rock	74.76	0.15	12.21	1.15	0.010	0.43	1.09	1.67	7.03	0.63	0.14	0.49	99.76	4.30	4.7	1.8	23	0.1	3.2	1.8	184	0.68	0.6	0.7	0.3	4.2	6	0.1	0.1	0.1	4	0.47	0.202	18	59.9	0.22	25	0.032	3	0.29	0.011	0.15	0.1	0.01	0.8	0.1	2	0.25
04-ARD-200-034	Hearne	Granite	Country Rock	70.97	0.25	14.27	2.17	0.010	0.73	1.52	2.82	5.71	0.09	0.08	0.93	99.55	4.00	6.5	5.5	35	0.1	8.7	2.8	145	1.19	2.4	1.4	1.3	25.9	9	0.1	0.1	0.1	12	0.33	0.037	51	52.2	0.42	30	0.055	3	0.46	0.015	0.28	0.1	0.01	1.3	0.2	5	0.25
04-ARD-200-035	Hearne	Granite	Country Rock	57.18	0.50	18.23	3.71	0.030	2.79	1.04	0.43	12.77	0.25	0.20	2.25	99.38	2.40	19.2	5.7	66	0.1	45.1	8.2	237	2.02	2.3	1.2	3.0	23.1	45	0.1	0.1	0.1	38	0.59	0.088	63	39.7	1.43	101	0.130	14	1.10	0.019	0.77	0.2	0.01	3.5	0.4	9	0.25
06-ARD-268-003	Tuzo	Granite	Country Rock	68.12	0.32	15.74	2.64	0.01	1.89	0.94	3.84	4.26	0.12	0.10	1.52	99.50	6.9	13.0	1.6	29	0.05	10.4	5.0	140	1.35	0.7	0.5	0.25	10.8	9	0.05	0.05	0.1	16	0.11	0.051	37	83	0.92	38	0.015	6	0.93	0.034	0.19	0.05	0.005	1.0	0.1	5	0.25
06-ARD-268-004	Tuzo	Granite	Country Rock	70.00	0.23	15.59	2.31	0.01	0.95	1.32	4.04	4.08	0.14	0.09	1.00	99.75	6.4	7.7	2.1	44	0.05	5.8	4.1	169	1.12	0.25	0.4	0.25	8.7	11	0.05	0.05	0.05	13	0.11	0.039	24	74	0.46	26	0.013	5	0.59	0.036	0.15	0.05	0.005	0.8	0.1	4	0.25
06-ARD-268-005	Tuzo	Granite	Country Rock	69.16	0.27	15.68	2.19	0.01	1.55	0.32	3.90	5.08	0.15	0.08	1.39	99.80	6.0	2.6	0.6	32	0.05	5.8	3.5	155	1.13	0.25	0.5	0.25	6.5	6	0.05	0.05	0.05	13	0.08	0.037	17	73	0.71	31	0.001	4	0.77	0.031	0.14	0.05	0.005	0.6	0.1	5	0.25
06-ARD-270-008	Tuzo	Granite	Country Rock	70.95	0.32	14.36	2.46	0.01	0.65	1.29	3.44	5.21	0.08	0.08	0.62	99.49	5.9	4.8	14.8	45	0.05	4.5	4.3	122	1.57	1	1.3	3.8	45.4	8	0.05	0.05	0.05	17	0.18	0.017	70	78	0.36	43	0.124	4	0.63	0.033	0.37	0.05	0.005	2.4	0.2	5	0.25
06-ARD-270-009	Tuzo	Granite	Country Rock	74.15	0.16	13.35	1.32	0.01	0.42	0.86	3.43	5.08	0.04	0.07	0.55	99.43	7.2	1.6	23.5	17	0.05	3.2	2.2	63	0.85	0.8	0.5	2.2	20.5	6	0.1	1.9	0.05	8	0.10	0.013	31	90	0.25	22	0.033	6	0.38	0.035	0.15	0.05	0.005	1.1	0.1	3	0.25
06-ARD-270-010	Tuzo	Granite	Country Rock	72.49	0.24	13.83	1.89	0.01	0.57	1.01	3.40	5.16	0.05	0.08	0.65	99.38	6.3	1.6	7.5	32	0.05	4.0	3.1	104	1.21	0.8	0.9	1.9	33.4	8	0.05	0.05	0.05	13	0.15	0.024	48	80	0.35	33	0.070	5	0.49	0.032	0.22	0.05	0.005	2.2	0.1	4	0.25
06-ARD-270-011	Tuzo	Granite	Country Rock	71.57	0.31	13.98	2.20	0.01	0.86	0.80	3.35	5.20	0.09	0.09	0.76	99.22	5.3	3.0	5.2	36	0.05	5.1	4.2	121	1.40	1	0.8	1.5	37.2	6	0.05	0.05	0.05	17	0.10	0.044	58	71	0.48	27	0.032	4	0.61	0.026	0.17	0.05	0.005	1.6	0.1	6	0.25
06-ARD-270-012	Tuzo	Granite	Country Rock	71.06	0.32	14.23	2.53	0.01	0.68	1.09	3.55	5.21	0.12	0.09	0.64	99.54	8.5	4.3	17.4	45	0.05	5.3	4.4	126	1.63	1.3	1.3	0.7	54.3	10	0.05	0.05	0.05	19	0.20	0.021	73	104	0.35	124	0.132	3	0.60	0.043	0.25	0.05	0.005	2.7	0.1	6	0.25
06-ARD-270-013	Tuzo	Granite	Country Rock	73.09	0.23	13.85	1.66	0.01	0.46	0.98	3.08	5.79	0.04	0.09	0.48	99.77	7.9	2.2	11.5	29	0.05	3.7	3.0	93	1.03	1	0.8	1.9	33.5	7	0.05	0.05	0.05	13	0.14	0.018	51	95	0.28	39	0.101	4	0.50	0.036	0.27	0.05	0.005	1.8	0.1	3	0.25
06-ARD-270-014	Tuzo	Granite	Country Rock	73.24	0.20	13.35	1.53	0.01	1.07	0.26	2.59	6.36	0.02	0.10	0.88	99.60	7.3	3.9	2.7	19	0.05	3.7	2.6	84	0.99	0.7	0.5	0.7	31.8	6	0.05	0.05	0.05	11	0.06	0.012	50	90	0.61	23	0.006	3	0.60	0.027	0.12	0.05	0.005	1.1	0.1	5	0.25
06-ARD-270-015	Tuzo	Granite	Country Rock	61.13	0.68	17.82	7.01	0.08	3.40	1.29	3.47	3.34	0.11	0.06	1.55	99.94	5.4	60.5	1.1	61	0.05	87.3	25.5	230	3.26	0.5	0.6	2.7	3.1	3	0.05	0.05	0.05	132	0.05	0.013	13	175	1.61	175	0.251	4	2.07	0.027	1.04	0.05	0.005	4.7	0.4	9	0.5
06-ARD-270-016	Tuzo	Granite	Country Rock	69.57	0.40	14.52	2.89	0.02	1.50	0.89	3.65	4.48	0.16	0.12	1.29	99.49	5.1	5.6	8.9	49	0.05	6.2	5.5	221	1.78	1.2	1.5	1.7	68.4	8	0.05	0.05	0.05	22	0.26	0.079	89	59	0.85	28	0.019	5	0.82	0.027	0.13	0.05	0.005	1.3	0.1	7	0.25
06-ARD-270-017	Tuzo	Granite	Country Rock	69.51	0.42	14.60	2.76	0.01	1.70	0.45	3.31	5.25	0.18	0.12	1.29	99.59	5.5	2.5	3.0	39	0.05	6.5	4.2	176	1.77	1.1	1.0	0.25	46.6	7	0.05	0.05	0.05	21	0.16	0.084	78	64	0.99	27	0.006	3	0.96	0.026	0.12	0.05	0.005	1.2	0.1	8	0.25
06-ARD-270-018	Tuzo	Granite	Country Rock	68.64	0.50	14.52	3.34	0.01	1.88	0.63	3.75	4.55	0.18	0.09	1.47	99.55	5.2	16.0	4.4	45	0.05	6.7	6.3	191	2.26	1.2	0.8	0.5	26.6	9	0.05	0.05	0.05	30	0.20	0.092	74	61	1.12	30	0.017	7	0.96	0.036	0.13	0.05	0.005	1.8	0.1	8	0.25
06-ARD-270-019	Tuzo	Granite	Country Rock	48.10	1.71	12.62	15.59	0.19	6.58	8.36	2.04	0.85	0.20	0.02	3.36	99.62	2.3	150.2	2.3	75	0.05	24.8	28.1	603	6.31	2.3	0.2	1.9	1.3	29	0.05	0.05	0.1	197	1.78	0.085	11	37	2.09	19	0.237	20	2.23	0.136	0.17	0.1	0.005	6.4	0.2	8	0.25
06-ARD-270-020	Tuzo	Granite	Country Rock	69.32	0.41	14.78	2.40	0.01	1.71	0.76	3.66	4.80	0.29	0.13	1.21	99.48	5.8	10.5	6.1	40	0.05	7.4	6.5	157	1.43	1.4	1.2	0.25	35.4	8	0.05	0.05	0.05	20	0.26	0.141	84	73	0.94	48	0.030	4	0.89	0.040	0.22	0.05	0.005	1.5	0.1	6	0.25
06-ARD-270-021	Tuzo	Granite	Country Rock	68.50	0.54	14.79	3.33	0.01	1.92	0.66	3.21	5.00	0.20	0.12	1.44	99.72	5.6	7.6	3.7	25	0.05	10.8	6.2	132	1.77	1.2	1.1	0.25	40.1	11	0.05	0.05	0.05	28	0.21	0.090	83	67	1.09	38	0.011	5	1.00	0.030	0.16	0.05	0.005	1.2	0.1	7	0.25
06-ARD-271-002	Tuzo	Granite	Country Rock	73.13	0.21	13.63	1.53	0.01	0.55	0.81	2.35	6.65	0.04	0.09	0.54	99.55	7.4	3.6	6.9	29	0.05	11.9	3.7	80	0.94	0.9	0.9	2.6	26.4	7	0.05	0.05	0.05	12	0.05	0.011	36	92	0.30	57	0.050	8	0.46	0.023	0.33	0.2	0.01	1.7	0.2	3	0.25
06-ARD-271-003	Tuzo	Granite	Country Rock	73.31	0.21	13.83	1.64	0.01	0.53	0.81	2.98	5.74	0.03	0.09	0.62	99.80	8.7	2.9	6.2	30	0.05	6.9	3.0	85	1.02	0.8	1.0	0.8	30.6	7	0.05	0.05	0.05	12	0.05	0.015	44	101	0.30	39	0.012	7	0.47	0.032	0.18	0.05	0.005	0.9	0.1	4	0.25
06-ARD-271-004	Tuzo	Granite	Country Rock	73.34	0.20	13.74	1.63	0.01	0.68	0.61	3.10	5.59	0.03	0.08	0.69	99.71	5.8	1.7	4.1	21	0.05	5.2	2.7	71	0.98	0.7	0.8	0.25	28.5	5	0.05	0.05	0.05	12	0.04	0.016	45	74	0.36	22	0.005	3	0.45	0.023	0.10	0.05	0.005	1.0	0.1	4	0.25
06-ARD-272-001	Tuzo	Granite	Country Rock	62.93	0.13	19.30	1.34	0.01	0.42	0.80	4.13	9.87	0.11	0.30	0.59	99.93	4.0	33.9	18.7	20	0.05	5.4	4.3	108	0.81	0.25	2.4	1.1	54.9	11	0.05	0.05	0.05	9	0.07	0.02	87	52	0.20	52	0.02	2	0.35	0.02	0.17	0.05	0.005	0.8	0.1	3	0.5
06-ARD-272-002	Tuzo	Granite	Country Rock	71.07	0.24	14.83	2.31	0.02	0.60	1.81	3.77	4.16	0.15	0.14	0.53	99.63	6.3	13.6	5.4	41	0.05	6.3	4.4	162	1.38	0.25	0.6	0.25	16.3	12	0.05	0.05	0.05	18	0.12	0.02	25	87	0.33	67	0.09	3	0.54	0.03	0.28	0.05	0.005	1.5	0.1	4	0.6
06-ARD-272-003	Tuzo	Granite	Country Rock	68.98	0.29	15.96	2.97	0.02	1.01	2.58	4.74	2.47	0.03	0.06	0.73	99.84	4.8	5.0	7.0	43	0.05	6.8	4.3	186	1.78	0.25	0.7	0.25	24.0	16	0.05	0.05	0.05	18	0.26	0.01	32	73	0.45	52	0.13	3	0.69	0.03	0.29	0.05	0.005	2.6	0.1	6	0.25
06-ARD-272-004	Tuzo	Granite	Country Rock	68.88	0.22	16.50	1.68	0.01	0.90	1.65	4.76	3.87	0.03	0.11	1.04	99.65	5.0	8.8	5.4	28	0.05	5.5	6.0	128	1.02	0.25	0.7	0.25	1.6	13	0.05	0.05	0.05	23	0.31	0.01	9	68	0.48	41	0.11	6	0.66	0.04	0.21	0.6	0.005	3.3	0.1	5	0.25
06-ARD-272-005	Tuzo	Granite	Country Rock	48.96	1.61	12.41	15.65	0.22	6.71	9.62	2.15	0.95	0.18	0.03	0.94	99.43	2.3	139.7	1.9	64	0.05	29.2	25.4	255	4.53	0.25	0.2	2.6	1.0	23	0.1	0.05	0.05	157	0.87	0.08	10	33	0.97	37	0.19	11	1.54	0.13	0.20	0.1	0.005	1.8	0.1	6	0.6
06-ARD-272-006	Tuzo	Granite	Country Rock	67.55	0.71	13.88	5.62	0.06	2.97	1.38	3.59	2.58	0.10	0.04	1.23	99.71	9.0	98.1	4.8	91	0.05	78.8	24.9	510	3.59	0.25	1.4	0.7	16.2	6	0.05	0.05	0.1	115	0.07	0.02	31	208	1.60	220	0.31	4	1.90	0.04	1.38	0.1	0.005	8.6	0.8	11	0.25
06-ARD-272-007	Tuzo	Granite	Country Rock	56.10	0.78	20.06	7.59	0.05	4.59	0.91	2.53	4.23	0.08	0.09	2.76	99.77	24.7	46.1	2.7	82	0.05	102.9	27.3	434	4.69	0.25	1.1	0.9	5.0	7	0.05	0.05	0.1	125	0.07	0.03	12	202	2.37	433	0.24	7	3.05	0.04	1.56	0.1	0.005	10.5	0.7	13	0.25
06-ARD-272-008	Tuzo	Granite	Country Rock	55.17	0.94	19.30	6.85	0.07	4.47	0.87	3.93	5.96	0.07	0.09	1.85	99.57	2.3	51.4	5.6	130	0.05	85.0	23.0	548	4.39	0.25	1.8	1.3	47.0	8	0.05	0.05	0.1	126	0.06	0.02	50	191	2.41	251	0.36	6	2.62	0.03	1.76	0.3	0.005	10.4	1.0	16	0.5
06-ARD-272-009	Tuzo	Granite	Country Rock	68.08	0.27	16.11	2.04	0.01	1.88	0.41	3.58	5.39	0.20	0.08	1.63	99.68	3.4	4.6	0.9	25	0.05	6.6	4.3	117	1.21	0.25	0.4	0.25	6.8	6	0.05	0.05	0.05	16	0.08	0.03	16	53	0.92	22	0.01	7	0.90	0.03	0.18	0.1	0.005	1.0	0.1	6	0.25
06-ARD-272-010	Tuzo	Granite	Country Rock	69.77	0.26	15.63	2.02	0.01	0.97	1.95	4.78	3.23	0.08	0.08	0.97	99.75	5.4	5.4	3.1	44	0.05	5.7	3.4	149	1.12	0.25	0.2	0.25	4.4	18	0.05	0.05	0.05	15	0.31	0.03	13	71	0.40	28	0.06	4	0.51	0.03	0.13	0.1	0.005	0.9	0.1	4	0.25
06-ARD-272-011	Tuzo	Granite	Country Rock	70.43	0.24	15.62	1.79	0.01	1.13	1.28	4.57	3.71	0.09	0.09	0.85	99.80	5.8	1.4	1.4	23	0.05	5.7	3.6	91	1.11	0.25	0.3	0.25	9.1	9	0.05	0.05	0.05	16	0.10	0.04	25	72	0.60	47	0.05	5	0.68	0.04	0.27	0.05	0.005	1.2	0.1	5	0.25
06-ARD-272-012	Tuzo	Granite	Country Rock	50.60	1.73	12.98	16.24	0.10	9.18	0.82	0.01	2.43	0.20	0.02	5.60	99.91	2.4	12.4	0.6	172	0.05	43.9	49.7	867	11.75	0.25	0.2	2.9	0.5	5	0.05	0.05	0.05	280	0.47	0.09	13	80	5.31	4	0.01	6	4.61	0.00	0.06	0.05	0.005	7.8	0.1	19	0.25
06-ARD-272-013	Tuzo	Granite	Country Rock	47.75	1.95	13.02	16.01	0.20	6.72	5.86	3.53	1.06	0.47	0.03	2.77	99.37	1.4	191.7	3.3	69	0.05	25.0	32.9	385	6.80	0.25	0.2	2.8	1.2	20	0.1	0.3	0.05	225	1.03	0.10	15	24	2.29	24	0.28	17	1.70	0.05	0.10	0.05	0.005	12.4	0.1	10	0.7
06-ARD-272-014	Tuzo	Granite	Country Rock	68.31	0.25	15.33	2.82	0.01	2.07	0.50	4.31	4.32	0.13	0.05	1.48	99.58	3.6	5.6	2.1	29	0.05	6.0	3.6	156	1.72	0.25	0.5	0.9	12.8	5	0.05	0.1	0.05	17	0.15	0.06	6	54	1.08	15	0.02	4	0.97	0.03	0.10	0.1	0.005	1.1	0.1	8	0.25
06-ARD-272-015	Tuzo	Granite	Country Rock	70.43	0.44	14.09	2.77	0.02	1.22	0.88	3.12	5.29	0.15	0.08	1.06	99.55	6.1	4.9	6.0	45	0.05	5.4	4.9	160	1.67	0.25	1.0	0.25	38.9	6	0.05	0.05	0.05	18	0.19	0.05	68	82	0.65	36	0.04	6	0.78	0.03	0.26	0.05	0.005	1.8	0.1	6	0.25
06-ARD-272-016	Tuzo	Granite	Country Rock	72.75	0.24	13.95	1.81	0.01	0.61	0.72	3.25	5.61	0.16	0.09	0.75	99.95	7.0	2.4	6.0	24	0.05	3.9	2.8	140	1.08	0.25	1.0	0.25	27.2	6	0.05	0.05	0.05	11	0.09	0.01	46	92	0.31	21	0.01	5	0.47	0.03	0.12	0.05	0.005	0.9	0.1	4	0.25
06-ARD-272-017	Tuzo	Granite	Country Rock	66.72	0.54	14.87	3.62	0.02	1.61	0.99	2.45	6.81	0.46	0.08	1.33	99.50	5.7	4.7	7.6	45	0.05	7.2	6.1	189	2.12	0.25	1.3	0.25	33.3	9	0.05	0.05	0.05	27	0.39	0.18	61	80	0.83	35	0.04	8	1.05	0.02	0.30	0.1	0.005	2.0	0.1	7	0.25
06-ARD-272-018	Tuzo	Granite	Country Rock	70.39	0.23	13.28	2.20	0.02	2.33	0.45	1.34	7.20	0.04	0.07	1.91	99.46	5.2	24.7	2.3	14	0.05	17.2	4.3	140	1.35	0.25	0.7	0.25	29.8	8	0.05	0.05	0.1	15	0.26	0.02	66	77	1.16	15	0.00	5	0.96	0.01	0.17	0.1	0.005	1.1	0.1	6	0.25

Whole Rock and Bulk Metal Analysis

Sample ID	Pit	Lithology		SiO_2	TiO_2	Al_2O_3	Fe_2O_3	MnO	MgO	CaO	Na_2O	K_2O	P205	Ba(F)	LOI	Total
				%	%	%	%	%	%	%	%	%	%	%	%	%
06-ARD-272-019	Tuzo	Granite	Country Rock	65.54	0.26	12.96	2.11	0.04	1.92	3.74	2.90	5.44	0.13	0.07	4.40	99.51
06-ARD-274-001	Tuzo	Granite	Country Rock	69.66	0.29	15.77	2.21	0.02	0.87	2.19	4.42	3.00	0.16	0.05	0.78	99.42
06-ARD-274-002	Tuzo	Granite	Country Rock	68.82	0.32	15.90	2.81	0.02	0.70	2.90	4.92	2.49	0.12	0.05	0.44	99.49
06-ARD-274-003	Tuzo	Granite	Country Rock	68.85	0.21	16.31	2.71	0.01	0.86	3.06	5.00	1.67	0.11	0.02	0.56	99.37
06-ARD-274-004	Tuzo	Granite	Country Rock	70.38	0.20	15.36	1.95	0.01	0.89	1.67	5.25	3.16	0.08	0.06	0.88	99.89
06-ARD-274-005	Tuzo	Granite	Country Rock	67.16	0.28	15.51	2.72	0.01	2.83	0.38	3.48	4.66	0.16	0.08	1.98	99.25
06-ARD-274-006	Tuzo	Granite	Country Rock	69.84	0.19	15.55	2.12	0.02	1.12	2.18	4.36	3.27	0.09	0.08	0.69	99.51
06-ARD-274-007	Tuzo	Granite	Country Rock	70.93	0.22	15.13	1.66	0.01	0.53	2.13	4.00	3.99	0.09	0.13	0.36	99.18
06-ARD-274-008	Tuzo	Granite	Country Rock	70.48	0.19	15.19	1.56	0.01	0.87	1.32	4.18	4.27	0.07	0.12	0.89	99.15
06-ARD-274-009	Tuzo	Granite	Country Rock	69.91	0.19	15.80	2.05	0.02	0.58	2.82	4.71	2.71	0.09	0.07	0.34	99.29
06-ARD-274-010	Tuzo	Granite	Country Rock	70.61	0.25	15.32	1.58	0.01	0.67	2.34	4.09	3.51	0.07	0.08	0.50	99.03
06-ARD-274-011	Tuzo	Granite	Country Rock	71.01	0.20	15.46	1.43	0.01	1.27	1.26	3.84	3.44	0.05	0.04	1.19	99.19
06-ARD-276-001	Tuzo	Granite	Country Rock	71.37	0.34	14.72	2.44	0.02	1.28	2.31	4.30	2.09	0.06	0.04	0.69	99.66
06-ARD-276-002	Tuzo	Granite	Country Rock	57.49	0.94	18.30	6.23	0.06	3.65	1.43	3.37	5.78	0.09	0.16	2.15	99.65
06-ARD-276-003	Tuzo	Granite	Country Rock	69.66	0.29	15.81	2.59	0.01	0.78	2.15	4.43	2.95	0.06	0.07	0.85	99.65
06-ARD-276-004	Tuzo	Granite	Country Rock	71.17	0.28	14.60	2.18	0.01	0.85	0.81	3.33	5.17	0.10	0.16	1.05	99.71
06-ARD-276-005	Tuzo	Granite	Country Rock	72.43	0.20	14.50	1.70	0.01	1.10	1.24	3.47	3.42	0.03	0.06	1.32	99.48
06-ARD-276-006	Tuzo	Granite	Country Rock	72.55	0.78	11.22	5.34	0.05	2.62	1.23	2.76	2.23	0.02	0.04	1.03	99.87
06-ARD-276-007	Tuzo	Granite	Country Rock	65.10	0.64	15.75	5.90	0.04	3.11	1.25	2.26	3.01	0.13	0.05	2.31	99.55
06-ARD-276-008	Tuzo	Granite	Country Rock	69.70	0.29	15.50	2.32	0.03	0.88	2.14	4.58	2.94	0.10	0.07	0.98	99.53
06-ARD-276-009	Tuzo	Granite	Country Rock	70.37	0.25	15.54	1.96	0.03	0.73	2.13	4.41	3.43	0.07	0.10	0.55	99.57
06-ARD-276-010	Tuzo	Granite	Country Rock	69.74	0.23	15.06	2.05	0.03	1.93	0.52	3.62	4.65	0.07	0.10	1.55	99.55
06-ARD-276-011	Tuzo	Granite	Country Rock	69.25	0.33	16.00	2.46	0.03	0.75	2.85	5.31	2.11	0.10	0.06	0.45	99.70
06-ARD-276-012	Tuzo	Granite	Country Rock	68.54	0.27	16.09	2.32	0.03	1.32	2.27	4.75	3.48	0.13	0.10	0.67	99.97
06-ARD-276-013	Tuzo	Granite	Country Rock	68.89	0.29	15.15	2.97	0.02	0.75	1.61	4.30	4.44	0.19	0.14	0.89	99.64
06-ARD-276-014	Tuzo	Granite	Country Rock	69.97	0.25	15.23	2.14	0.01	0.93	1.55	4.97	3.08	0.22	0.07	1.08	99.50
06-ARD-276-015	Tuzo	Granite	Country Rock	48.23	1.67	13.20	15.06	0.18	7.04	7.15	3.25	0.90	0.21	0.03	2.96	99.88
06-ARD-276-019	Tuzo	Granite	Country Rock	70.56	0.25	14.65	2.73	0.01	1.03	1.01	3.72	4.58	0.05	0.07	0.91	99.57
06-ARD-277-001	Tuzo	Granite	Country Rock	69.86	0.29	15.78	2.21	0.01	0.77	2.02	4.21	3.41	0.12	0.09	0.63	99.40
06-ARD-277-002	Tuzo	Granite	Country Rock	69.20	0.32	15.84	2.28	0.02	1.34	1.72	4.24	3.26	0.13	0.06	0.99	99.40
06-ARD-277-003	Tuzo	Granite	Country Rock	66.85	0.31	16.38	2.39	0.03	0.89	2.53	3.90	5.03	0.69	0.14	0.57	99.71
06-ARD-277-004	Tuzo	Granite	Country Rock	70.01	0.31	15.60	2.34	0.02	0.83	2.01	4.08	3.71	0.17	0.11	0.65	99.84
06-ARD-277-005	Tuzo	Granite	Country Rock	68.16	0.29	15.51	3.38	0.04	0.77	1.69	3.43	5.41	0.29	0.18	0.57	99.72
06-ARD-277-006	Tuzo	Granite	Country Rock	68.41	0.34	16.11	2.46	0.01	1.48	1.31	4.01	4.44	0.21	0.07	1.09	99.94
06-ARD-277-007	Tuzo	Granite	Country Rock	69.64	0.28	15.93	2.63	0.02	0.80	2.73	4.66	2.32	0.07	0.06	0.53	99.67
06-ARD-277-008	Tuzo	Granite	Country Rock	67.64	0.30	16.54	3.02	0.02	0.76	2.06	5.33	3.28	0.06	0.10	0.85	99.96
06-ARD-277-012	Tuzo	Granite	Country Rock	70.73	0.22	14.46	1.91	0.02	0.74	0.91	2.95	6.34	0.16	0.16	0.78	99.38
06-ARD-277-013	Tuzo	Granite	Country Rock	60.15	0.27	18.60	2.94	0.02	3.03	0.17	2.32	8.99	0.15	0.05	2.82	99.51
06-ARD-277-014	Tuzo	Granite	Country Rock	71.17	0.20	15.09	1.74	0.02	0.67	1.40	4.24	3.83	0.06	0.12	0.76	99.30
06-ARD-277-015	Tuzo	Granite	Country Rock	70.66	0.24	15.56	1.74	0.01	1.36	0.91	4.47	3.10	0.06	0.08	1.13	99.32
06-ARD-277-016	Tuzo	Granite	Country Rock	71.01	0.19	15.14	1.70	0.02	0.59	1.88	4.38	3.58	0.11	0.11	0.71	99.42
06-ARD-277-017	Tuzo	Granite	Country Rock	69.98	0.20	15.63	2.08	0.01	0.83	2.17	4.90	2.88	0.09	0.07	0.59	99.43
06-ARD-277-018	Tuzo	Granite	Country Rock	69.73	0.24	15.57	2.02	0.01	0.74	2.02	5.42	3.32	0.08	0.09	0.67	99.91
06-ARD-277-019	Tuzo	Granite	Country Rock	68.15	0.37	15.74	3.20	0.02	1.40	1.01	4.43	3.80	0.14	0.11	1.28	99.65
06-ARD-277-020	Tuzo	Granite	Country Rock	65.16	0.68	12.17	12.78	0.01	1.15	0.51	3.62	2.33	0.03	0.02	1.35	99.81
06-ARD-277-021	Tuzo	Granite	Country Rock	64.82	0.44	15.91	5.35	0.03	2.18	0.88	4.61	3.37	0.10	0.05	1.67	99.41
06-ARD-277-024	Tuzo	Granite	Country Rock	71.55	0.30	13.81	2.19	0.01	1.21	0.31	2.91	5.50	0.07	0.08	1.11	99.05
06-ARD-277-025	Tuzo	Granite	Country Rock	58.23	0.85	17.55	5.08	0.03	3.34	0.75	0.74	9.35	0.41	0.12	2.74	99.19
06-ARD-277-026	Tuzo	Granite	Country Rock	58.44	0.28	19.80	2.17	0.01	2.52	0.31	0.37	13.12	0.15	0.11	2.28	99.56
06-ARD-277-027	Tuzo	Granite	Country Rock	57.68	0.40	20.11	2.49	0.01	2.38	0.31	0.26	12.87	0.15	0.12	2.49	99.27
06-ARD-277-028	Tuzo	Granite	Country Rock	56.17	0.30	20.18	3.10	0.02	3.78	0.14	0.15	12.11	0.07	0.12	2.90	99.04
06-ARD-277-029	Tuzo	Granite	Country Rock	70.78	0.38	13.95	2.02	0.01	1.62	0.32	2.45	6.11	0.13	0.10	1.30	99.17
06-ARD-277-030	Tuzo	Granite	Country Rock	68.06	0.48	15.17	3.11	0.02	1.53	0.97	2.74	5.68	0.20	0.10	1.39	99.45
06-ARD-277-031	Tuzo	Granite	Country Rock	55.84	0.54	20.07	3.23	0.02	3.23	0.50	0.17	11.78	0.27	0.17	3.24	99.06
06-ARD-277-032	Tuzo	Granite	Country Rock	53.27	0.56	20.60	4.39	0.03	4.44	0.55	0.59	10.88	0.40	0.17	3.90	99.78
06-ARD-277-033	Tuzo	Granite	Country Rock	70.13	0.23	15.33	2.02	0.02	0.85	2.02	3.73	4.10	0.08	0.10	0.69	99.30
06-ARD-277-034	Tuzo	Granite	Country Rock	70.48	0.24	15.27	1.97	0.02	0.89	1.72	4.82	3.51	0.07	0.07	0.94	100.00
06-ARD-277-035	Tuzo	Granite	Country Rock	70.74	0.21	15.49	1.88	0.02	0.66	2.09	4.05	3.76	0.11	0.08	0.52	99.61
06-ARD-277-036	Tuzo	Granite	Country Rock	70.08	0.24	15.66	2.19	0.03	0.63	2.58	4.36	3.06	0.08	0.08	0.43	99.42
06-ARD-277-037	Tuzo	Granite	Country Rock	68.35	0.52	14.60	3.60	0.04	1.26	1.47	3.44	4.40	0.21	0.13	1.15	99.17
06-ARD-277-038	Tuzo	Granite	Country Rock	68.30	0.28	16.14	2.42	0.02	1.02	2.06	4.22	3.71	0.13	0.09	0.75	99.14
06-ARD-277-039	Tuzo	Granite	Country Rock	69.38	0.24	15.56	2.19	0.02	1.39	1.08	4.11	4.02	0.08	0.09	1.19	99.35
06-ARD-277-040	Tuzo	Granite	Country Rock	63.83	0.41	17.56	3.53	0.04	1.96	1.72	3.57	5.10	0.29	0.06	1.47	99.54
06-ARD-277-041	Tuzo	Granite	Country Rock	68.11	0.57	14.92	3.29	0.03	1.91	0.90	3.56	4.35	0.23	0.13	1.38	99.38
06-ARD-277-042	Tuzo	Granite	Country Rock	64.96	0.52	15.98	3.54	0.03	2.62	0.80	2.82	6.18	0.21	0.11	2.17	99.94
06-ARD-277-043	Tuzo	Granite	Country Rock	67.58	0.30	16.06	2.62	0.03	1.03	2.48	4.48	3.21	0.28	0.10	1.03	99.20
06-ARD-277-044	Tuzo	Granite	Country Rock	60.59	0.25	17.64	2.65	0.03	3.39	0.79	0.46	9.63	0.20	0.16	3.75	99.54
07-ARD-278-001	Tuzo	Granite	Country Rock	70.07	0.23	15.57	2.00	0.02	0.56	2.17	4.04	3.91	0.11	0.11	0.58	99.37
07-ARD-278-002	Tuzo	Granite	Country Rock	70.10	0.25	15.71	2.18	0.02	0.83	2.19	4.05	3.37	0.12	0.08	0.66	99.56
07-ARD-278-003	Tuzo	Granite	Country Rock	70.02	0.32	14.47	2.22	0.01	1.72	0.31	2.31	6.60	0.24	0.10	1.58	99.90
07-ARD-278-004	Tuzo	Granite	Country Rock	69.32	0.22	15.81	2.26	0.02	0.82	2.21	3.76	4.16	0.14	0.10	0.58	99.40
07-ARD-279-001	Tuzo	Granite	Country Rock	71.01	0.33	13.97	2.58	0.01	1.14	0.97	2.73	5.25	0.15	0.09	1.06	99.29
07-ARD-279-002	Tuzo	Granite	Country Rock	69.54	0.42	14.36	3.09	0.02	1.07	1.18	2.91	5.29	0.17	0.13	1.04	99.22
07-ARD-282-001	Tuzo	Granite	Country Rock	69.93	0.24	15.39	2.03	0.01	1.54	0.59	4.21	3.93	0.08	0.08	1.33	99.36
07-ARD-282-002	Tuzo	Granite	Country Rock	70.01	0.20	15.30	2.36	0.01	1.39	0.60	4.25	4.15	0.10	0.08	1.17	99.62
07-ARD-282-003	Tuzo	Granite	Country Rock	71.55	0.22	14.15	2.25	0.01	0.93	0.65	3.11	5.57	0.07	0.09	0.88	99.48
07-ARD-282-004	Tuzo	Granite	Country Rock	74.09	0.12	13.58	1.22	0.01	0.49	0.70	2.85	5.76	0.07	0.10	0.55	99.54
07-ARD-282-006	Tuzo	Granite	Country Rock	70.61	0.34	14.41	2.42	0.01	1.27	0.67	3.06	5.47	0.16	0.08	1.02	99.52
07-ARD-282-007	Tuzo	Granite	Country Rock	72.02	0.23	14.38	1.51	0.01	0.60	0.86	2.88	6.15	0.09	0.10	0.66	99.49
07-ARD-282-008	Tuzo	Granite	Country Rock	70.50	0.30	14.04	2.07	0.01	1.32	0.66	2.24	6.50	0.13	0.08	1.19	99.04
07-ARD-282-009	Tuzo	Granite	Country Rock	71.92	0.22	13.67	1.78	0.01	1.33	0.24	1.93	6.98	0.06	0.08	1.17	99.39
07-ARD-282-010	Tuzo	Granite	Country Rock	71.31	0.32	14.05	1.97	0.02	1.00	1.03	2.86	5.77	0.14	0.10	1.03	99.60
07-ARD-282-011	Tuzo	Granite	Country Rock	70.18	0.38	14.34	2.74	0.01	0.94	1.22	2.93	5.60	0.20	0.10	0.68	99.32
07-ARD-282-012	Tuzo	Granite	Country Rock	71.40	0.30	14.18	2.24	0.01	0.80	0.91	2.77	5.84	0.08	0.09	0.71	99.33
07-ARD-282-013	Tuzo	Granite	Country Rock	71.86	0.30	13.71	1.96	0.01	0.89	0.58	2.38	6.79	0.16	0.09	0.91	99.64
07-ARD-282-014	Tuzo	Granite	Country Rock	70.70	0.29	14.06	2.23	0.01	1.15	0.32	1.83	7.29	0.13	0.09	1.09	99.19
07-ARD-282-015	Tuzo	Granite	Country Rock	70.37	0.33	14.29	2.35	0.01	0.80	0.87	2.61	6.63	0.17	0.09	0.72	99.24
07-ARD-283-001	Tuzo	Granite	Country Rock	71.23	0.28	14.18	2.99	0.01	0.44	0.77	3.19	6.14	0.06	0.11	0.43	99.83
07-ARD-283-002	Tuzo	Granite	Country Rock	73.15	0.23	13.78	1.76	0.01	0.48	1.12	2.96	5.36	0.04	0.08	0.43	99.40
07-ARD-283-003	Tuzo	Granite	Country Rock	73.36	0.22	13.67	1.46	0.01	0.68	0.57	2.76	5.81	0.08	0.09	0.71	99.42
07-ARD-283-004	Tuzo	Granite	Country Rock	73.37	0.22	13.39	1.39	0.01	0.78	0.11	2.41	6.79	0.13	0.08	0.75	99.43
07-ARD-283-005	Tuzo	Granite	Country Rock	72.98	0.24	13.63	1.50	0.01	0.85	0.14	2.50	6.42	0.05	0.08	0.84	99.24
07-ARD-283-006	Tuzo	Granite	Country Rock	72.30	0.28	13.88	2.11	0.01	0.57	0.89	3.13	5.89	0.06	0.10	0.53	99.75
07-ARD-283-007	Tuzo	Granite	Country Rock	71.48	0.28	13.97	1.90	0.01	0.87	0.66	2.61	6.17	0.12	0.10	0.93	99.10
07-ARD-283-008	Tuzo	Granite	Country Rock	72.11	0.29	13.77	2.18	0.01	0.85	0.86	2.72	5.54	0.10	0.09	0.79	99.31
07-ARD-283-009	Tuzo	Granite	Country Rock	71.69	0.27	14.12	1.78	0.01	0.73	0.76	2.71	6.24	0.12	0.11	0.82	99.36
07-ARD-283-010	Tuzo	Granite	Country Rock	70.89	0.40	14.06	2.94	0.02	0.93	1.10	2.86	5.20	0.17	0.12	0.95	99.64
07-ARD-283-011	Tuzo	Granite	Country Rock	70.23	0.38	14.55	2.81	0.02	1.08	0.96	2.72	5.74	0.18	0.13	1.08	99.88
07-ARD-283-012	Tuzo	Granite	Country Rock	69.36	0.41	14.68	3.06	0.02	1.00	1.41	2.81	5.54	0.26	0.13	1.01	99.69
07-ARD-284-001	Tuzo	Granite	Country Rock	73.05	0.24	13.77	1.66	0.01	0.69	0.68	2.67	5.75	0.05	0.09	0.72	99.38
07-ARD-284-002	Tuzo	Granite	Country Rock	73.11	0.22	13.66	1.50	0.01	0.90	0.23	2.61	6.14	0.04	0.08	0.88	99.38
07-ARD-284-003	Tuzo	Granite	Country Rock	73.47	0.21	13.78	1.54	0.01	0.68	0.54	2.76	5.69	0.03	0.08	0.74	99.53
07-ARD-284-004	Tuzo	Granite	Country Rock	73.24	0.23	13.76	1.60	0.01	0.69	0.70	2.92	5.40	0.04	0.08	0.71	99.38
07-ARD-284-005	Tuzo	Granite	Country Rock	72.73	0.21	13.56	1.44	0.01	0.85	0.24	1.34	8.50	0.12	0.09	0.75	99.84
07-ARD-284-006	Tuzo	Granite	Country Rock	72.56	0.24	14.13	1.75	0.01	0.66	0.76	2.70	6.14	0.10	0.10	0.71	99.86
07-ARD-284-007	Tuzo	Granite	Country Rock	69.06	0.30	14.24	2.15	0.01	1.65	0.63	1.98	7.61	0.20	0.08	1.96	99.87
07-ARD-284-008	Tuzo	Granite	Country Rock	72.18	0.22	13.54	1.75	0.01	1.03	0.53	1.84	7.22	0.04	0.07	1.02	99.45
07-ARD-284-009	Tuzo	Granite	Country Rock	68.74	0.29	15.04	1.83	0.01	0.90	0.18	1.48	9.90	0.07	0.16	0.70	99.30
07-ARD-284-010	Tuzo	Granite	Country Rock	71.77	0.34	13.55	2.57	0.01	1.17	0.55	2.47	5.78	0.12	0.11	1.08	99.52
07-ARD-285-001	Tuzo	Granite	Country Rock	70.31	0.22	14.45	2.17	0.02	1.17	0.45	2.25	7.06	0.12	0.11	1.08	99.41
07-ARD-285-002	Tuzo	Granite	Country Rock	72.80	0.23	13.71	1.70	0.01	0.98	0.35	2.19	6.81	0.06	0.08	0.89	99.81
07-ARD-285-003	Tuzo	Granite	Country Rock	72.23	0.31	13.77	2.14	0.01	0.74	1.07	2.66	5.97	0.19	0.10	0.67	99.86
07-ARD-285-004	Tuzo	Granite	Country Rock	72.57	0.26	14.03	1.82	0.01	0.76	1.03	2.89	5.70	0.05	0.09	0.69	99.90
07-ARD-285-005	Tuzo	Granite	Country Rock	73.45	0.22	13.74	1.57	0.01	0.62	0.82	2.83	5.88	0.05	0.10	0.61	99.90
07-ARD-285-007	Tuzo	Granite	Country Rock	70.65	0.39	14.21	2.65	0.01	1.43	0.63	2.82	5.58	0.13	0.09	1.07	99.66
07-ARD-286-001	Tuzo	Granite	Country Rock	69.12	0.25	15.94	2.36	0.01	0.59	2.31	4.22	4.10	0.23	0.09	0.42	99.64
07-ARD-286-002	Tuzo	Granite	Country Rock	73.61	0.18	13.91	1.65	0.01	0.46	1.11	3.22	5.30	0.04	0.09	0.40	99.98
07-ARD-286-003	Tuzo	Granite	Country Rock	65.68	0.54	16.71	5.26	0.01	0.83	2.04	5.73	2.22	0.04	0.02	0.91	99.99
07-ARD-286-004	Tuzo	Granite	Country Rock	73.48	0.21	13.72	1.68	0.01	0.48	1.20	3.24	5.26	0.03	0.08	0.42	99.81
07-ARD-286-005	Tuzo	Granite	Country Rock	73.02	0.24	13.81	1.75	0.01	0.55	1.08	3.18	5.48	0.11	0.08	0.56	99.87
07-ARD-286-006	Tuzo	Granite	Country Rock	72.68	0.21	13.96	1.53	0.01	0.56	0.92	2.90	6.13	0.04	0.08	0.53	99.55
07-ARD-286-007	Tuzo	Granite	Country Rock	72.73	0.23	13.92	1.89	0.01	0.60	0.95	3.11	5.50	0.04	0.09	0.57	99.64
07-ARD-286-008	Tuzo	Granite	Country Rock	72.57	0.26	13.97	2.20	0.01	0.61	1.11	3.23	5.27	0.07	0.09	0.58	99.97
07-ARD-286-009	Tuzo	Granite	Country Rock	71.88	0.28	14.11	2.36	0.01	0.69	1.23	3.31	5.41	0.13	0.09	0.50	100.00
07-ARD-286-010	Tuzo	Granite	Country Rock	71.70	0.32	14.23	2.43	0.01	0.66	1.13	3.56	5.12	0.04	0.08	0.65	99.93
07-ARD-286-011	Tuzo	Granite	Country Rock	71.41	0.33	14.03	2.53	0.01	1.30	0.83	3.16	5.09	0.13	0.08	1.08	99.98
07-ARD-286-012	Tuzo	Granite	Country Rock	72.79	0.28	13.84	2.11	0.01	0.76	0.95	3.28	4.94	0.06	0.08	0.76	99.86
07-ARD-286-013	Tuzo	Granite	Country Rock	72.27	0.28	14.06	1.73	0.01	0.91	0.79	2.96	5.82	0.11	0.11	0.88	99.93
07-ARD-286-014	Tuzo	Granite	Country Rock	72.84	0.24	14.01	1.71	0.01	0.73	1.11	2.88	5.57	0.05	0.11	0.54	99.80
07-ARD-286-015	Tuzo	Granite	Country Rock	69.57	0.39	14.64	2.89	0.03	1.08	1.12	3.00	5.88	0.20	0.13	1.01	99.94
07-ARD-286-016	Tuzo	Granite	Country Rock	70.28	0.36	14.30	2.69	0.02	0.91	0.95	2.83	5.84	0.15	0.12	0.95	99.40
07-ARD-287-001	Tuzo	Granite	Country Rock	71.67	0.20	15.24	1.69	0.01	0.85	1.13	4.41	3.53	0.05	0.10	0.93	99.81
07-ARD-287-002	Tuzo	Granite	Country Rock	69.55	0.26	15.75	2.56	0.02	0.79	1.44	4.51	3.91	0.15	0.12	0.83	99.89
07-ARD-287-003	Tuzo	Granite	Country Rock	70.38	0.28	15.65	2.11	0.01	0.70	2.35	4.67	2.91	0.08	0.09	0.62	99.85
07-ARD-287-004	Tuzo	Granite	Country Rock	70.38	0.26	15.37	2.11	0.01	0.68	1.88	4.32	3.85	0.11	0.12	0.86	99.95
07-ARD-287-006	Tuzo	Granite	Country Rock	69.54	0.28	15.52	2.41	0.01	0.82	1.81	4.26	4.16	0.16	0.12	0.73	99.82

Sample ID	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
06-ARD-272-019	6.8	5.7	3.3	18	0.05	14.0	5.8	357	1.30	0.25	0.8	0.5	30.9	32	0.05	0.05	0.05	12
06-ARD-274-001	3.9	3.9	4.8	43	0.05	5.5	3.7	155	1.34	0.25	0.6	0.25	16.6	7	0.05	0.05	0.05	11
06-ARD-274-002	5.8	0.8	6.6	54	0.05	7.0	4.3	174	1.68	0.25	0.5	0.7	21.5	10	0.05	0.05	0.05	21
06-ARD-274-003	4.5	1.3	3.5	49	0.05	6.9	3.9	165	1.66	0.25	0.3	0.25	11.5	9	0.05	0.05	0.05	11
06-ARD-274-004	5.4	14.8	3.9	26	0.05	6.5	4.0	132	1.19	0.25	0.4	0.25	17.4	8	0.05	0.05	0.05	11
06-ARD-274-005	3.6	4.1	0.7	29	0.05	6.3	4.1	162	1.66	0.25	0.3	0.25	1.6	4	0.05	0.05	0.05	12
06-ARD-274-006	3.9	11.2	3.2	42	0.05	5.6	4.3	172	1.32	0.25	0.5	0.5	9.4	10	0.05	0.05	0.05	18
06-ARD-274-007	4.1	8.6	2.9	34	0.05	4.4	3.0	130	1.02	0.25	0.3	0.25	5.3	9	0.05	0.05	0.05	14
06-ARD-274-008	5.1	6.1	1.6	23	0.05	4.3	2.8	116	1.04	0.25	0.2	0.25	4.5	9	0.05	0.05	0.05	12
06-ARD-274-009	4.0	8.8	4.9	49	0.05	5.8	4.4	167	1.38	0.25	0.4	0.25	11.9	9	0.05	0.05	0.05	20
06-ARD-274-010	3.1	3.1	4.0	34	0.05	3.5	3.0	141	0.95	0.25	0.3	0.25	11.2	6	0.05	0.05	0.05	9
06-ARD-274-011	3.3	1.9	5.1	15	0.05	4.9	2.3	81	0.83	0.25	0.3	0.25	4.4	6	0.05	0.7	0.05	9
06-ARD-276-001	8.1	5.3	8.3	54	0.05	13.1	6.6	207	1.56	1.3	1.2	2.7	21.0	12	0.1	1.4	0.05	44
06-ARD-276-002	4.4	58.2	5.0	134	0.05	73.4	20.1	509	4.02	0.7	1.7	0.25	17.8	13	0.05	0.5	0.05	79
06-ARD-276-003	4.7	9.6	4.5	47	0.05	6.1	4.3	179	1.46	0.8	0.5	1	13.5	14	0.05	0.7	0.05	19
06-ARD-276-004	6.6	12.0	9.0	45	0.05	6.2	4.5	166	1.33	0.7	1.5	0.25	40.6	14	0.05	0.5	0.05	13
06-ARD-276-005	3.8	21.7	1.3	26	0.05	12.0	7.6	153	1.04	0.5	0.2	0.25	0.7	4	0.05	0.3	0.05	25
06-ARD-276-006	5.7	42.7	1.9	123	0.05	67.4	15.1	467	3.52	0.25	0.2	3.3	1.4	4	0.05	0.1	0.05	80
06-ARD-276-007	8.0	46.8	1.9	53	0.05	75.3	22.9	350	3.57	0.25	0.6	7.1	2.4	7	0.05	0.1	0.1	96
06-ARD-276-008	3.9	9.6	4.2	52	0.05	6.8	4.1	182	1.33	0.25	0.2	0.25	4.1	17	0.05	0.2	0.05	17
06-ARD-276-009	3.5	5.3	2.8	44	0.05	4.9	3.5	150	1.06	0.25	0.2	0.25	5.0	7	0.05	0.3	0.05	13
06-ARD-276-010	3.5	5.2	1.2	47	0.05	5.4	4.2	182	1.32	0.25	0.2	0.25	5.1	6	0.05	0.2	0.05	16
06-ARD-276-011	9.2	2.2	3.8	65	0.05	7.2	4.6	229	1.51	0.9	0.5	0.25	4.9	19	0.05	0.4	0.05	20
06-ARD-276-012	4.7	1.1	5.4	62	0.05	6.3	4.6	192	1.43	0.25	0.2	0.5	6.3	17	0.05	0.2	0.05	18
06-ARD-276-013	5.0	8.5	8.0	54	0.05	5.5	4.2	158	1.73	0.25	0.8	0.5	33.9	27	0.05	0.1	0.05	23
06-ARD-276-014	4.1	9.9	5.6	28	0.05	6.0	4.2	124	1.13	0.25	0.4	0.25	9.3	19	0.05	0.8	0.05	13
06-ARD-276-015	1.3	153.3	2.5	64	0.05	31.5	31.4	367	6.27	0.25	0.2	1.6	1.0	18	0.05	0.1	0.05	176
06-ARD-276-019	4.9	37.3	5.5	29	0.05	7.7	4.3	114	1.59	0.25	1.0	0.25	26.4	9	0.05	0.1	0.05	11
06-ARD-277-001	3.9	7.4	2.6	52	0.05	6.3	4.5	191	1.28	0.25	0.4	0.25	9.0	7	0.05	0.1	0.05	18
06-ARD-277-002	3.3	2.0	1.2	46	0.05	6.7	4.3	170	1.24	0.25	0.2	0.25	4.2	6	0.05	0.1	0.05	17
06-ARD-277-003	3.1	11.8	1.2	67	0.05	7.1	5.2	310	1.49	0.25	0.3	0.25	0.7	13	0.05	0.1	0.05	22
06-ARD-277-004	3.7	4.3	2.2	50	0.05	5.6	4.8	176	1.28	0.25	0.3	0.25	6.7	8	0.05	0.1	0.05	18
06-ARD-277-005	4.2	5.4	8.1	75	0.05	5.9	4.6	212	1.97	0.25	1.3	0.25	32.7	14	0.05	0.1	0.05	30
06-ARD-277-006	2.7	3.7	1.4	49	0.05	7.5	5.9	194	1.49	0.25	0.3	0.25	5.2	6	0.05	0.05	0.05	25
06-ARD-277-007	4.9	0.7	8.2	55	0.05	7.1	4.4	199	1.63	0.25	0.6	0.25	21.1	10	0.05	0.1	0.05	21
06-ARD-277-008	4.4	11.3	9.1	49	0.05	8.5	5.5	168	1.74	0.25	1.1	0.25	28.8	15	0.05	0.05	0.05	23
06-ARD-277-012	3.6	6.4	5.3	34	0.05	4.7	2.9	132	1.06	0.25	0.9	0.25	20.7	15	0.05	0.1	0.05	16
06-ARD-277-013	1.4	2.9	6.9	36	0.05	7.3	4.4	169	1.73	0.25	0.2	0.25	7.6	5	0.05	0.5	0.05	22
06-ARD-277-014	5.9	7.3	3.1	31	0.05	5.1	2.9	120	0.96	0.25	0.5	0.5	6.5	12	0.05	0.1	0.05	14
06-ARD-277-015	6.0	1.7	1.3	20	0.05	5.7	3.1	121	1.01	0.25	0.3	0.5	7.5	9	0.05	0.1	0.05	14
06-ARD-277-016	3.8	9.6	3.7	32	0.05	4.1	3.1	106	0.87	0.25	0.5	0.25	4.2	12	0.05	0.05	0.05	13
06-ARD-277-017	3.9	11.9	3.4	40	0.05	5.0	3.8	134	1.18	0.25	0.2	0.25	5.4	9	0.05	0.05	0.05	19
06-ARD-277-018	8.2	5.2	4.2	44	0.05	6.4	4.0	135	1.20	0.25	0.3	0.25	11.4	9	0.05	0.1	0.05	16
06-ARD-277-019	2.8	8.4	2.1	48	0.05	10.7	5.7	175	1.50	0.25	0.6	0.25	21.6	9	0.05	0.05	0.05	24
06-ARD-277-020	3.6	1.3	1.7	19	0.05	3.8	4.3	82	2.25	0.25	0.2	0.25	9.4	5	0.05	0.05	0.05	18
06-ARD-277-021	5.0	10.0	5.6	48	2.1	4.4	4.8	200	2.59	0.25	0.6	0.25	48.5	6	0.05	0.1	0.05	23
06-ARD-277-024	7.1	9.3	11.9	16	0.05	4.6	3.0	105	1.24	0.25	0.7	0.25	24.0	5	0.05	0.2	0.05	12
06-ARD-277-025	2.8	1.5	1.6	51	0.05	6.5	7.7	217	2.95	0.25	0.7	0.5	28.9	10	0.05	0.05	0.05	35
06-ARD-277-026	1.2	1.8	1.3	19	0.05	6.1	5.0	90	1.18	0.25	0.5	0.6	22.6	8	0.05	0.05	0.05	12
06-ARD-277-027	0.9	1.1	2.1	25	0.05	6.2	4.6	120	1.37	0.25	0.7	0.8	30.2	8	0.05	0.05	0.05	13
06-ARD-277-028	1.0	4.5	6.3	16	0.05	8.8	5.0	107	1.75	0.25	0.5	1.5	30.2	8	0.05	0.05	0.05	12
06-ARD-277-029	3.2	6.9	2.2	10	0.05	5.7	3.1	86	1.11	0.25	0.5	0.25	39.0	5	0.05	0.1	0.05	14
06-ARD-277-030	3.9	5.4	6.3	37	0.05	7.0	5.6	152	1.54	0.25	0.7	0.25	55.6	6	0.05	0.05	0.05	16
06-ARD-277-031	1.7	1.3	5.7	40	0.05	8.8	6.0	150	1.72	0.5	0.7	0.25	31.2	13	0.05	0.05	0.05	21
06-ARD-277-032	0.8	4.2	1.5	58	0.05	13.0	9.1	239	2.47	0.25	0.4	0.25	22.0	14	0.05	0.05	0.05	27
06-ARD-277-033	3.5	7.2	3.6	38	0.05	6.3	4.0	152	1.11	0.25	0.3	0.25	13.0	7	0.05	0.05	0.05	16
06-ARD-277-034	4.3	6.2	1.9	37	0.05	5.9	3.4	144	1.07	0.25	0.1	0.25	1.7	8	0.05	0.05	0.05	11
06-ARD-277-035	4.1	4.1	1.7	34	0.05	4.2	3.1	139	1.07	0.25	0.2	0.25	2.3	7	0.05	0.05	0.05	12
06-ARD-277-036	3.8	3.8	3.2	42	0.05	5.0	3.9	171	1.28	0.25	0.4	0.25	6.3	8	0.1	0.05	0.05	16
06-ARD-277-037	4.9	4.1	3.5	61	0.05	7.3	6.7	257	1.85	0.25	0.6	0.25	15.4	8	0.05	0.1	0.05	30
06-ARD-277-038	3.2	8.6	2.1	52	0.05	7.3	4.6	202	1.39	0.25	0.3	0.25	4.3	8	0.05	0.1	0.05	19
06-ARD-277-039	4.3	10.4	2.2	36	0.05	7.6	6.7	154	1.22	0.25	0.3	0.25	2.7	6	0.05	0.05	0.05	18
06-ARD-277-040	4.3	1.5	2.3	64	0.05	11.5	6.1	302	1.83	0.25	0.7	0.25	9.1	11	0.05	0.05	0.05	28
06-ARD-277-041	4.6	4.8	2.5	44	0.05	7.5	5.5	203	1.67	0.25	0.5	1.3	15.1	10	0.05	0.1	0.05	28
06-ARD-277-042	3.0	5.2	3.4	49	0.05	8.5	6.8	226	1.87	0.25	0.6	0.25	25.8	10	0.05	0.1	0.05	27
06-ARD-277-043	4.0	8.3	0.7	45	0.05	8.1	5.3	208	1.38	0.25	0.2	0.6	0.7	11	0.05	0.05	0.05	19
06-ARD-277-044	2.5	2.3	0.9	39	0.05	6.4	5.0	212	1.51	0.25	0.3	0.7	11.7	11	0.05	0.05	0.05	14
07-ARD-278-001	4.8	19.3	93.6	114	0.4	4.6	4.3	167	1.2	7.5	0.2	0.8	6.1	11	0.4	1.2	0.05	17
07-ARD-278-002	6.6	5.4	18.8	66	0.05	6.3	3.9	162	1.35	1.4	0.2	0.6	9.6	11	0.2	0.3	0.05	16
07-ARD-278-003	6.1	4.5	11.9	31	0.2	9.5	3.8	107	1.2	1.1	0.8	0.25	38.2	5	0.1	0.2	0.05	12
07-ARD-278-004	8.3	14.5	8.5	58	0.05	6.8	4.6	204	1.45	0.8	0.6	0.25	11.2	16	0.1	0.1	0.05	18
07-ARD-279-001	7.2	3.6	13.4	36	0.05	5.4	4	112	1.62	0.25	1	0.25	46.6	7	0.05	0.1	0.05	17
07-ARD-279-002	5.7	4.6	25.1	66	0.05	5.8	5.3	192	1.95	0.25	1.5	0.25	82.1	10	0.1	0.2	0.05	23
07-ARD-282-001	6	2.4	6.5	23	0.05	6.9	3.5	95	1.26	0.25	0.5	0.25	10.2	8	0.1	0.1	0.05	15
07-ARD-282-002	6.5	4.5	15.1	28	0.05	5.5	3.4	128	1.23	0.25	0.5	0.25	16.1	8	0.05	0.3	0.05	14
07-ARD-282-003	9.3	11.6	12.3	42	0.05	6.7	3.9	124	1.43	0.25	1.6	0.25	41.8	8	0.1	0.2	0.05	9
07-ARD-282-004	5.5	4.2	10.3	31	0.05	3.1	1.9	82	0.75	0.25	0.9	0.25	22.1	5	0.1	0.1	0.05	9
07-ARD-282-006	4.2	3.3	12.4	27	0.05	6.1	3.4	120	1.37	0.6	0.8	0.25	37.6	4	0.05	0.4	0.05	15
07-ARD-282-007	4.3	1.9	10.4	31	0.05	3.6	2.7	112	0.9	0.25	0.7	0.25	30.4	4	0.05	0.1	0.05	7
07-ARD-282-008	3.7	3.4	6.1	37	0.05	8.9	3.7	138	1.27	0.7	0.9	0.25	35.5	5	0.05	0.1	0.05	14
07-ARD-282-009	3.4	1.5	3.2	21	0.05	8.3	2.6	83	0.94	0.25	0.7	0.5	26.1	4	0.05	0.1	0.05	10
07-ARD-282-010	4.4	3	6.9	37	0.05	6.5	3.7	150	1.2	0.25	1	0.25	34.2	7	0.05	0.05	0.05	17
07-ARD-282-011	3	6	16.5	48	0.05	5.7	4.7	213	1.71	0.25	1	0.25	46.5	5	0.05	0.1	0.05	20
07-ARD-282-012	3.9	2.8	10.2	41	0.05	5.9	3.7	117	1.32	0.25	0.9	0.25	43.7	6	0.05	0.1	0.05	15
07-ARD-282-013	4.2	6	6	40	0.05	16.2	4.2	125	1.17	0.25	0.8	0.5	33.6	6	0.05	0.05	0.05	14
07-ARD-282-014	4.6	11.8	12.8	36	0.05	14.5	4.8	115	1.38	0.5	0.9	0.5	39.5	6	0.05	0.2	0.05	17
07-ARD-282-015	4.2	3.9	8.3	40	0.05	6.4	3.9	104	1.4	0.25	1	0.7	39.6	7	0.05	0.1	0.05	18
07-ARD-283-001	4.8	2.8	7	24	0.05	2.9	1.8	49	1.51	0.6	0.7	1.1	24.6	4	0.05	0.1	0.05	16
07-ARD-283-002	4	1.7	9.7	28	0.05	2.8	2.5	84	1.06	0.6	0.8	1.5	30.2	3	0.05	0.1	0.05	9
07-ARD-283-003	4.4	1.5	6.7	23	0.05	3.2	2.4	79	0.88	0.7	0.8	1	25.9	4	0.1	0.5	0.05	7
07-ARD-283-004	3.8	1.7	3.5	10	0.05	4.8	2.1	63	0.79	0.6	1	1.1	29.5	3	0.05	0.2	0.05	8
07-ARD-283-005	3.4	1.1	1.7	11	0.05	6.2	2.1	66	0.84	1	0.8	0.9	26.8	3	0.05	0.05	0.05	8
07-ARD-283-006	5.2	1.7	7.7	36	0.05	4.8	3.2	119	1.24	2.1	0.9	1.7	36	5	0.05	0.1	0.05	11
07-ARD-283-007	9.4	1.6	5.8	34	0.05	4	3.3	143	1.21	0.8	0.8	1.9	34.7	6	0.05	0.05	0.05	9
07-ARD-283-008	4.7	2.3	6.3	35	0.4	4.4	3.2	127	1.33	0.7	0.8	1.3	38	5	0.05	0.05	0.05	12
07-ARD-283-009	4	2.4	5.6	29	0.05	4.8	3.2	119	1.1	0.5	0.6	2	30.8	6	0.05	0.1	0.05	9
07-ARD-283-010	5.1	4.6	10.3	44	0.05	5.2	4.7	138	1.6	0.6	0.9	0.25	47.4	8	0.05	0.1	0.05	17
07-ARD-283-011	4.4	5.4	9.2	40	0.05	6.5	4.3	163	1.56	0.25	0.9	1.6	50.7	7	0.05	0.1	0.05	17
07-ARD-283-012	4.5	6	13.3	46	0.05	6	5.1	172	1.82	0.25	1.3	1	62.7	9	0.05	0.1	0.05	20
07-ARD-284-001	4.1	1.4	5.1	35	0.05	6.5	2.8	97	0.97	0.7	0.8	1.4	26.1	4	0.05	0.1	0.05	10
07-ARD-284-002	4.1	3.3	3.2	17	0.05	7.9	2.6	71	0.9	0.6	0.6	1.6	36.9	4	0.05	0.05	0.05	8
07-ARD-284-003	4.6	1.7	6.2	19	0.05	4.9	2.4	90	0.93	0.25	0.8	2	29.3	5	0.05	0.05	0.05	6
07-ARD-284-004	5.1	1.3	5.5	25	0.05	5.9	2.8	98	0.98	1.5	0.7	1.1	28.4	4	0.05	0.2	0.05	5
07-ARD-284-005	4.8	9.2	2.8	11	0.05	10.6	2.7	88	0.87	0.6	0.4	1	21	5	0.05	0.05	0.05	7
07-ARD-284-006	5.3	2	4.7	27	0.05	5	3.2	175	1.07	0.8	0.6	2	24.8	4	0.05	0.05	0.05	6
07-ARD-284-007	3.5	5.4	4.2	13	0.05	25.7	5.7	141	1.25	0.6	1	2.1	37	14	0.05	0.1	0.05	14
07-ARD-284-008	4.8	3.1	5.7	26	0.05	14	3.7	104	1.04	1.1	0.9	1.6	38.9	8	0.05	0.05	0.05	8
07-ARD-284-009	4.5	3	3.8	20	0.05	3.9	3	92	1.16	0.5	0.8	1.7	36.9	6	0.05	0.05	0.05	12
07-ARD-284-010	4.7	3.3	5.3	42	0.05	11.1	4.7	154	1.51	0.7	0.9	1.4	64.1	7	0.05	0.05	0.05	17
07-ARD-285-001	5.2	4.5	4.3	30	0.05	8.8	3.1	112	1.21	0.6	0.6	190.6	32.8	8	0.05	0.05	0.05	12
07-ARD-285-002	4.5	2.3	3.6	21	0.05	4.5	2.5	83	1	0.5	0.5	1.7	26.6	5	0.1	0.1	0.05	12
07-ARD-285-003	5.1	2.2	6.4	36	0.05	4.6	3.6	130	1.26	0.5	0.8	2.2	34.6	7	0.05	0.05	0.05	15
07-ARD-285-004	4.3	1.7	8.7	31	0.05	3.2	2.9	110	1.08	0.7	0.9	1.3	44.8	7	0.05	0.05	0.05	12
07-ARD-285-005	3.4	0.9	4.7	23	0.05	3.2	2.3	95	0.94	0.25	0.7	0.7	27.6	4	0.05	0.1	0.05	10
07-ARD-285-007	3.5	7.8	4	23	0.05	15.5	4.4	122	1.56	0.5	2.3	1.8	48.6	6	0.05	0.05	0.05	20
07-ARD-286-001	5.1	8.1	4.6	50	0.05	5	3.6	168	1.47	0.5	0.5	0.9	5.2	10	0.05	0.05	0.05	12
07-ARD-286-002	5.7	2.4	7.1	27	0.05	3.2	2.1	78	0.97	0.25	0.7	1.1	25	6	0.05	0.05	0.05	8
07-ARD-286-003	4.9	26	8.7	37	0.05	5.8	3.9	101	2.84	0.25	2	0.25	39.2	6	0.05	0.05	0.05	46
07-ARD-286-004	4.7	1.6	7.3	28	0.05	3.2	2.3	85	1.02	0.8	0.7	0.25	24.6	4	0.05	0.05	0.05	9
07-ARD-286-005	6.2	1.4	7.9	26	0.05	3.2	2.4	87	1.05	0.5	0.8	1	30.2	6	0.05	0.05	0.05	11
07-ARD-286-006	4.6	1.1	5.2	24	0.05	3.5	2.3	80	0.94	0.25	0.5	0.6	21.6	5	0.05	0.05	0.05	8
07-ARD-286-007	5.3	1.3	5.7	29	0.05	3.4	2.8	96	1.17	0.5	0.8	1.4	31.5	5	0.05	0.05	0.05	13
07-ARD-286-008	7.6	2.9	8	36	0.05	5	3.3	116	1.38	0.25	1	1.7	37.2	6	0.05	0.1	0.05	14
07-ARD-286-009	5.4	3.9	11.1	39	0.05	3.6	3.3	109	1.42	0.25	0.9	1	37.9	5	0.05	0.05	0.05	16
07-ARD-286-010	5.9	3.1	11.4	41	0.05	5.1	3.7	117	1.41	0.25	1.4	1.8	57.2	5	0.05	0.05	0.05	13
07-ARD-286-011	5.1	5.3	6.6	43	0.05	5.6	4.1	149	1.62	0.25	1.3	1.7	63.5	5	0.05	0.05	0.05	18
07-ARD-286-012	5.1	3.1	14.6	35	0.05	3.7	3	173	1.25	0.25	1.1	0.25	52.1	8	0.05	0.05	0.05	12
07-ARD-286-013	4.2	3.2	7.4	30	0.05	4.2	3	122	1.08	0.25	1.1	1.2	53.6	7	0.05	0.05	0.05	9
07-ARD-286-014	4.7	1.9	15.3	33	0.05	3.8	3.3	116	1.09	0.25	1.8	0.9	65.6	7	0.05	0.05	0.05	13
07-ARD-286-015	4.3	3.8	6.3	49	0.05	5.9	4.4	221	1.61	0.25	0.9	0.25	37.4	7	0.05	0.05	0.05	18
07-ARD-286-016	5.1	3.6	8.5	46	0.05	5.3	4.1	175	1.37	0.5	0.8	0.9	44.2	8	0.05	0.05	0.05	17
07-ARD-287-001	4.6	18.8	1.4	27	0.05	4.2	3.2	155	0.96	0.25	0.6	0.25	6.2	7	0.05	0.05	0.05	9
07-ARD-287-002	4.2	7.1	3.5	55	0.05	5.8	4.1	209	1.41	0.25	0.3	0.5	6.7	13	0.05	0.05	0.05	17
07-ARD-287-003	4.9	7.6	3.5	49	0.05	5.8	4.1	163	1.18	0.7	0.3	0.8	6.9	15	0.05	0.05	0.05	17
07-ARD-287-004	3.7	9.9	4.6	46	0.05	5.3	3.6	160	1.16	0.25	0.4	0.5	14.5	10	0.05	0.05	0.05	15
07-ARD-287-006	4.2	12.8	11	59	0.05	5.7	4.5	173	1.36	1.4	0.7	1	21	14	0.1	0.2	0.05	18

Sample ID	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	Ga	Se
	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
06-ARD-272-019	2.30	0.05	49	92	1.05	19	0.00	4	0.61	0.02	0.11	0.1	0.005	1.3	0.1	5	0.25
06-ARD-274-001	0.18	0.04	26	50	0.44	31	0.06	5	0.53	0.02	0.21	0.05	0.01	1.6	0.1	5	0.25
06-ARD-274-002	0.23	0.05	33	74	0.36	50	0.11	2	0.54	0.04	0.32	0.05	0.005	2.0	0.2	5	0.25
06-ARD-274-003	0.17	0.05	14	62	0.44	41	0.08	2	0.57	0.03	0.29	0.05	0.005	1.3	0.1	6	0.25
06-ARD-274-004	0.10	0.04	27	77	0.46	25	0.02	7	0.56	0.03	0.16	0.05	0.005	0.7	0.1	4	0.25
06-ARD-274-005	0.12	0.05	11	49	1.44	14	0.00	5	1.26	0.02	0.12	0.05	0.005	0.8	0.1	8	0.25
06-ARD-274-006	0.23	0.05	23	53	0.48	34	0.08	2	0.53	0.02	0.22	0.05	0.005	1.3	0.1	5	0.25
06-ARD-274-007	0.18	0.03	16	55	0.27	41	0.08	1	0.40	0.02	0.19	0.2	0.005	1.1	0.1	3	0.25
06-ARD-274-008	0.19	0.03	15	69	0.47	25	0.02	2	0.52	0.03	0.12	0.05	0.005	0.6	0.1	3	0.25
06-ARD-274-009	0.21	0.04	24	58	0.32	46	0.10	1	0.46	0.02	0.31	0.05	0.005	1.6	0.1	4	0.25
06-ARD-274-010	0.17	0.03	21	43	0.34	42	0.09	1	0.46	0.01	0.25	0.05	0.005	1.7	0.1	3	0.25
06-ARD-274-011	0.09	0.03	15	49	0.62	19	0.01	5	0.65	0.02	0.13	0.05	0.005	0.8	0.1	4	0.25
06-ARD-276-001	0.11	0.01	39	80	0.68	89	0.14	2	0.93	0.03	0.62	0.05	0.005	3.5	0.3	6	0.25
06-ARD-276-002	0.28	0.02	44	173	2.02	105	0.23	3	2.20	0.03	0.67	0.1	0.005	6.4	0.4	14	0.25
06-ARD-276-003	0.10	0.01	25	67	0.45	41	0.06	4	0.63	0.03	0.23	0.05	0.005	1.5	0.1	5	0.25
06-ARD-276-004	0.08	0.02	74	92	0.51	40	0.02	3	0.69	0.03	0.16	0.05	0.005	1.2	0.1	5	0.25
06-ARD-276-005	0.05	0.01	8	54	0.54	21	0.02	4	0.68	0.02	0.17	0.05	0.005	1.1	0.1	4	0.25
06-ARD-276-006	0.09	0.00	4	189	1.42	216	0.30	2	1.86	0.02	1.28	0.05	0.01	6.6	0.7	12	0.25
06-ARD-276-007	0.07	0.03	10	179	1.54	137	0.19	6	2.24	0.02	0.83	0.1	0.005	8.5	0.4	8	0.25
06-ARD-276-008	0.26	0.04	14	55	0.50	19	0.08	5	0.64	0.02	0.12	0.05	0.005	1.1	0.1	5	0.25
06-ARD-276-009	0.15	0.03	17	48	0.40	35	0.07	2	0.50	0.02	0.20	0.1	0.005	1.2	0.1	4	0.25
06-ARD-276-010	0.08	0.03	15	48	1.08	18	0.01	5	0.98	0.02	0.13	0.05	0.005	0.7	0.1	7	0.25
06-ARD-276-011	0.29	0.05	18	118	0.45	82	0.13	1	0.77	0.07	0.45	0.1	0.005	2.0	0.2	5	0.25
06-ARD-276-012	0.32	0.06	18	63	0.48	44	0.11	2	0.63	0.03	0.26	0.1	0.005	2.0	0.1	5	0.25
06-ARD-276-013	0.45	0.09	62	64	0.44	23	0.08	3	0.59	0.03	0.09	0.05	0.005	1.5	0.1	5	0.25
06-ARD-276-014	0.38	0.10	20	53	0.51	11	0.07	4	0.56	0.03	0.06	0.05	0.005	1.0	0.1	5	0.25
06-ARD-276-015	1.03	0.09	12	35	2.49	14	0.28	14	1.82	0.07	0.06	0.1	0.005	12.0	0.1	8	0.25
06-ARD-276-019	0.11	0.01	49	59	0.50	20	0.04	5	0.62	0.03	0.18	0.05	0.01	1.3	0.1	6	0.25
06-ARD-277-001	0.10	0.04	29	54	0.45	55	0.06	4	0.58	0.02	0.28	0.05	0.005	1.2	0.1	4	0.25
06-ARD-277-002	0.12	0.05	17	42	0.70	43	0.06	5	0.79	0.02	0.30	0.1	0.005	1.5	0.1	5	0.25
06-ARD-277-003	0.61	0.28	9	43	0.54	69	0.13	1	0.77	0.02	0.44	0.05	0.005	2.3	0.2	5	0.25
06-ARD-277-004	0.16	0.06	19	50	0.45	46	0.07	2	0.58	0.02	0.27	0.05	0.005	1.5	0.1	4	0.25
06-ARD-277-005	0.28	0.11	59	56	0.35	48	0.06	3	0.50	0.02	0.19	0.05	0.005	1.2	0.1	6	0.25
06-ARD-277-006	0.16	0.08	17	40	0.79	79	0.09	4	0.92	0.02	0.39	0.05	0.005	2.1	0.2	6	0.25
06-ARD-277-007	0.21	0.02	29	64	0.47	67	0.14	1	0.65	0.02	0.36	0.05	0.005	2.7	0.2	5	0.25
06-ARD-277-008	0.18	0.01	42	61	0.43	46	0.12	3	0.65	0.03	0.23	0.05	0.005	2.4	0.1	6	0.25
06-ARD-277-012	0.28	0.07	37	51	0.40	17	0.07	3	0.43	0.02	0.07	0.05	0.005	1.5	0.1	3	0.25
06-ARD-277-013	0.08	0.03	16	21	1.55	5	0.00	9	1.41	0.01	0.09	0.1	0.005	1.0	0.1	9	0.25
06-ARD-277-014	0.15	0.02	20	80	0.35	40	0.04	4	0.47	0.04	0.19	0.05	0.005	0.9	0.1	3	0.25
06-ARD-277-015	0.07	0.03	22	79	0.68	21	0.01	4	0.69	0.05	0.10	0.1	0.005	0.5	0.1	5	0.25
06-ARD-277-016	0.27	0.05	10	51	0.31	24	0.06	8	0.36	0.02	0.11	0.05	0.005	1.0	0.1	3	0.25
06-ARD-277-017	0.18	0.04	13	51	0.37	30	0.08	3	0.42	0.02	0.20	0.1	0.005	1.4	0.1	3	0.25
06-ARD-277-018	0.21	0.04	23	102	0.41	27	0.07	2	0.45	0.02	0.16	0.05	0.005	1.3	0.1	4	0.25
06-ARD-277-019	0.17	0.05	45	51	0.70	10	0.01	4	0.71	0.02	0.05	0.05	0.005	1.1	0.1	6	0.25
06-ARD-277-020	0.07	0.01	18	39	0.53	4	0.00	5	0.58	0.02	0.06	0.05	0.005	0.8	0.1	12	0.25
06-ARD-277-021	0.12	0.02	54	45	1.16	6	0.00	4	1.02	0.02	0.05	2	0.005	0.6	0.1	14	0.25
06-ARD-277-024	0.08	0.04	39	85	0.62	17	0.01	4	0.72	0.03	0.12	0.05	0.005	1.0	0.1	5	0.25
06-ARD-277-025	0.41	0.16	62	38	1.63	21	0.02	8	1.66	0.01	0.17	0.05	0.01	1.9	0.1	13	0.25
06-ARD-277-026	0.17	0.02	36	18	1.04	7	0.00	8	0.94	0.01	0.12	0.05	0.01	0.8	0.1	6	0.25
06-ARD-277-027	0.18	0.05	21	17	0.99	9	0.01	8	0.99	0.01	0.13	0.1	0.01	1.1	0.1	6	0.25
06-ARD-277-028	0.07	0.03	70	17	1.76	12	0.00	10	1.57	0.01	0.13	0.2	0.005	0.9	0.1	7	0.25
06-ARD-277-029	0.12	0.06	47	47	0.81	13	0.01	4	0.76	0.02	0.08	0.1	0.005	0.9	0.1	5	0.25
06-ARD-277-030	0.23	0.09	57	54	0.75	22	0.03	6	0.83	0.02	0.17	0.05	0.005	1.6	0.1	5	0.25
06-ARD-277-031	0.30	0.10	68	21	1.45	13	0.01	16	1.42	0.02	0.18	0.05	0.005	1.1	0.1	6	0.25
06-ARD-277-032	0.34	0.16	29	23	2.07	15	0.02	15	1.83	0.02	0.20	0.05	0.005	1.6	0.1	11	0.25
06-ARD-277-033	0.18	0.04	23	49	0.45	56	0.09	6	0.57	0.02	0.36	0.05	0.005	1.4	0.1	4	0.25
06-ARD-277-034	0.20	0.03	7	60	0.45	15	0.05	5	0.51	0.03	0.11	0.05	0.005	1.2	0.1	4	0.25
06-ARD-277-035	0.16	0.04	8	54	0.37	39	0.08	5	0.52	0.02	0.30	0.05	0.005	1.4	0.1	4	0.25
06-ARD-277-036	0.17	0.04	17	53	0.36	58	0.11	1	0.52	0.02	0.39	0.05	0.005	1.8	0.2	4	0.25
06-ARD-277-037	0.35	0.08	48	67	0.66	49	0.08	4	0.73	0.02	0.24	0.05	0.005	2.2	0.1	6	0.25
06-ARD-277-038	0.19	0.05	15	50	0.56	55	0.11	4	0.68	0.03	0.37	0.05	0.005	1.9	0.1	5	0.25
06-ARD-277-039	0.13	0.04	9	59	0.68	30	0.03	5	0.67	0.03	0.19	0.1	0.005	0.9	0.1	5	0.25
06-ARD-277-040	0.26	0.12	34	56	0.96	79	0.09	15	1.21	0.03	0.57	0.05	0.005	2.3	0.3	8	0.25
06-ARD-277-041	0.19	0.08	53	65	0.99	42	0.03	7	0.96	0.03	0.21	0.05	0.01	1.0	0.2	6	0.25
06-ARD-277-042	0.23	0.08	59	39	1.26	28	0.03	10	1.23	0.02	0.20	0.05	0.005	1.3	0.1	8	0.25
06-ARD-277-043	0.50	0.09	10	51	0.59	52	0.09	3	0.64	0.02	0.22	0.05	0.005	1.7	0.1	5	0.25
06-ARD-277-044	0.52	0.09	20	36	1.39	14	0.00	13	1.36	0.02	0.16	0.1	0.005	0.8	0.1	7	0.25
07-ARD-278-001	0.22	0.034	16	67	0.34	37	0.088	2	0.48	0.026	0.19	0.05	0.01	1.4	0.1	4	0.25
07-ARD-278-002	0.14	0.036	22	87	0.46	57	0.077	6	0.66	0.04	0.3	0.05	0.005	1.2	0.1	5	0.25
07-ARD-278-003	0.08	0.035	36	80	0.83	23	0.004	5	0.82	0.021	0.15	1.1	0.005	0.5	0.1	6	0.25
07-ARD-278-004	0.19	0.045	25	90	0.49	72	0.111	10	0.7	0.042	0.42	0.1	0.005	1.7	0.2	5	0.25
07-ARD-279-001	0.19	0.054	73	99	0.64	36	0.03	7	0.8	0.033	0.21	0.05	0.005	1.4	0.1	6	0.25
07-ARD-279-002	0.31	0.071	81	78	0.65	61	0.062	12	0.79	0.032	0.32	0.05	0.005	1.9	0.1	6	0.25
07-ARD-282-001	0.1	0.04	32	89	0.86	22	0.004	3	0.88	0.045	0.13	0.05	0.005	0.8	0.05	7	0.25
07-ARD-282-002	0.09	0.036	33	90	0.75	22	0.004	4	0.79	0.046	0.13	0.05	0.01	0.6	0.05	6	0.25
07-ARD-282-003	0.09	0.016	61	127	0.55	36	0.028	5	0.76	0.054	0.24	0.05	0.005	1.2	0.1	6	0.25
07-ARD-282-004	0.05	0.02	36	67	0.27	21	0.008	3	0.38	0.022	0.1	0.05	0.005	0.5	0.05	3	0.25
07-ARD-282-006	0.13	0.049	67	54	0.71	23	0.024	3	0.76	0.019	0.15	0.05	0.005	1.3	0.1	5	0.25
07-ARD-282-007	0.09	0.024	51	55	0.35	20	0.016	3	0.44	0.018	0.11	0.05	0.005	0.9	0.05	3	0.25
07-ARD-282-008	0.19	0.048	51	50	0.73	28	0.04	4	0.74	0.017	0.24	0.05	0.005	1.9	0.1	5	0.25
07-ARD-282-009	0.07	0.012	47	43	0.68	13	0.006	3	0.61	0.011	0.09	0.1	0.005	0.8	0.05	5	0.25
07-ARD-282-010	0.24	0.043	67	62	0.57	28	0.031	4	0.58	0.021	0.2	0.05	0.005	1.4	0.1	4	0.25
07-ARD-282-011	0.19	0.077	69	43	0.54	43	0.078	5	0.68	0.015	0.33	0.05	0.005	2.1	0.2	5	0.25
07-ARD-282-012	0.07	0.015	63	51	0.43	29	0.045	5	0.53	0.017	0.23	0.05	0.005	1.5	0.1	4	0.25
07-ARD-282-013	0.14	0.053	36	57	0.48	20	0.011	4	0.55	0.016	0.12	0.05	0.005	1.1	0.05	5	0.25
07-ARD-282-014	0.12	0.056	65	60	0.65	19	0.003	4	0.78	0.017	0.13	0.05	0.005	1	0.05	5	0.25
07-ARD-282-015	0.15	0.065	62	53	0.46	31	0.051	7	0.58	0.02	0.26	0.05	0.01	1.6	0.1	5	0.25
07-ARD-283-001	0.05	0.019	42	57	0.19	17	0.005	3	0.27	0.02	0.07	0.6	0.005	0.5	0.05	5	0.25
07-ARD-283-002	0.08	0.01	41	50	0.28	26	0.073	3	0.42	0.016	0.23	0.05	0.005	1.8	0.1	4	0.25
07-ARD-283-003	0.07	0.029	42	56	0.36	15	0.007	2	0.44	0.018	0.09	0.1	0.005	0.8	0.05	3	0.25
07-ARD-283-004	0.03	0.015	33	52	0.4	19	0.001	2	0.46	0.014	0.08	0.1	0.005	0.9	0.05	4	0.25
07-ARD-283-005	0.04	0.017	38	53	0.42	16	0.001	1	0.47	0.015	0.07	0.05	0.005	0.8	0.05	4	0.25
07-ARD-283-006	0.06	0.017	55	68	0.31	32	0.034	4	0.46	0.02	0.18	0.05	0.005	1.3	0.1	4	0.25
07-ARD-283-007	0.2	0.053	59	67	0.5	21	0.007	5	0.56	0.022	0.1	0.05	0.005	1.2	0.05	4	0.5
07-ARD-283-008	0.12	0.04	65	61	0.5	27	0.028	4	0.58	0.021	0.16	1.6	0.005	1.4	0.1	5	0.25
07-ARD-283-009	0.15	0.047	49	60	0.43	21	0.008	4	0.5	0.019	0.1	0.05	0.005	1.1	0.05	4	0.25
07-ARD-283-010	0.2	0.062	71	55	0.51	39	0.05	5	0.62	0.019	0.2	0.05	0.005	1.6	0.1	5	0.25
07-ARD-283-011	0.23	0.07	71	60	0.57	38	0.032	4	0.69	0.021	0.18	0.05	0.005	1.6	0.1	5	0.5
07-ARD-283-012	0.34	0.07	74	62	0.55	50	0.091	8	0.72	0.024	0.25	0.05	0.005	2.3	0.1	6	0.25
07-ARD-284-001	0.03	0.014	41	56	0.36	22	0.014	4	0.47	0.017	0.12	0.05	0.005	0.9	0.05	4	0.5
07-ARD-284-002	0.03	0.014	58	59	0.47	17	0.002	3	0.51	0.019	0.09	0.05	0.005	0.8	0.05	4	0.25
07-ARD-284-003	0.03	0.011	48	64	0.36	23	0.006	4	0.48	0.022	0.11	0.05	0.005	0.8	0.05	3	0.25
07-ARD-284-004	0.02	0.01	47	67	0.38	27	0.018	3	0.49	0.023	0.15	0.05	0.005	1	0.05	3	0.25
07-ARD-284-005	0.11	0.047	38	66	0.49	20	0.002	2	0.49	0.014	0.12	0.1	0.005	0.9	0.05	4	0.25
07-ARD-284-006	0.11	0.038	44	70	0.35	24	0.01	4	0.47	0.02	0.11	0.05	0.005	0.9	0.05	4	0.25
07-ARD-284-007	0.37	0.071	64	55	0.86	23	0.004	4	0.75	0.013	0.13	0.1	0.005	1.1	0.05	6	0.5
07-ARD-284-008	0.13	0.014	48	65	0.57	14	0.015	6	0.57	0.018	0.13	0.1	0.005	1.1	0.05	4	0.25
07-ARD-284-009	0.08	0.027	59	66	0.54	23	0.003	2	0.61	0.014	0.11	0.05	0.005	1.3	0.05	5	0.25
07-ARD-284-010	0.17	0.053	74	73	0.66	18	0.006	4	0.74	0.023	0.09	0.05	0.005	1.4	0.05	6	0.25
07-ARD-285-001	0.13	0.051	64	72	0.64	26	0.009	4	0.69	0.021	0.15	0.05	0.005	0.9	0.05	6	0.25
07-ARD-285-002	0.06	0.023	51	62	0.52	23	0.015	4	0.58	0.018	0.15	0.1	0.005	1.1	0.05	5	0.25
07-ARD-285-003	0.19	0.075	52	67	0.38	42	0.052	7	0.55	0.022	0.26	0.2	0.005	1.6	0.1	4	0.25
07-ARD-285-004	0.1	0.017	72	59	0.37	31	0.041	6	0.47	0.02	0.19	0.05	0.005	1.4	0.1	4	0.25
07-ARD-285-005	0.06	0.014	42	49	0.31	24	0.02	2	0.39	0.014	0.11	0.05	0.01	0.9	0.1	3	0.25
07-ARD-285-007	0.13	0.055	70	52	0.77	38	0.05	3	0.81	0.017	0.25	0.1	0.005	2.2	0.1	6	0.25
07-ARD-286-001	0.33	0.106	13	63	0.35	56	0.12	1	0.61	0.035	0.39	0.05	0.005	2.3	0.2	5	0.25
07-ARD-286-002	0.07	0.012	40	76	0.25	30	0.053	5	0.39	0.03	0.19	0.05	0.01	1.2	0.1	3	0.25
07-ARD-286-003	0.11	0.013	71	60	0.42	20	0.038	7	0.53	0.042	0.19	0.05	0.005	1.3	0.1	10	0.25
07-ARD-286-004	0.09	0.009	35	62	0.26	24	0.071	3	0.41	0.025	0.2	0.05	0.005	1.7	0.1	3	0.25
07-ARD-286-005	0.12	0.01	46	79	0.28	23	0.066	3	0.44	0.03	0.19	0.05	0.005	1.5	0.1	3	0.25
07-ARD-286-006	0.04	0.013	39	65	0.28	30	0.042	7	0.45	0.021	0.22	0.05	0.005	1.3	0.1	3	0.25
07-ARD-286-007	0.08	0.013	44	72	0.32	30	0.057	4	0.49	0.026	0.23	0.05	0.005	1.4	0.1	4	0.25
07-ARD-286-008	0.15	0.029	51	91	0.33	34	0.076	7	0.55	0.038	0.23	0.1	0.005	1.8	0.1	5	0.25
07-ARD-286-009	0.18	0.038	55	74	0.32	36	0.098	5	0.55	0.032	0.27	0.05	0.005	2	0.1	4	0.25
07-ARD-286-010	0.11	0.014	77	73	0.35	24	0.067	6	0.55	0.03	0.17	0.05	0.005	1.7	0.05	5	0.25
07-ARD-286-011	0.13	0.019	87	70	0.72	19	0.022	4	0.83	0.026	0.12	0.05	0.01	1.4	0.05	6	0.25
07-ARD-286-012	0.14	0.025	73	63	0.39	15	0.029	7	0.52	0.025	0.1	0.05	0.005	1.3	0.05	4	0.25
07-ARD-286-013	0.19	0.046	75	62	0.47	22	0.015	5	0.56	0.023	0.12	0.05	0.005	1.2	0.1	4	0.25
07-ARD-286-014	0.04	0.016	113	61	0.38	54	0.072	7	0.58	0.022	0.33	0.1	0.01	1.8	0.2	4	0.25
07-ARD-286-015	0.31	0.083	54	61	0.52	37	0.036	7	0.67	0.022	0.18	0.1	0.01	1.6	0.1	5	0.25
07-ARD-286-016	0.21	0.061	65	63	0.5	30	0.023	5	0.58	0.024	0.17	0.05	0.01	1.3	0.1	5	0.25
07-ARD-287-001	0.08	0.026	18	60	0.41	20	0.007	4	0.49	0.032	0.08	0.05	0.01	0.6	0.05	4	0.25
07-ARD-287-002	0.23	0.071	21	59	0.41	28	0.053	3	0.53	0.035	0.11	0.05	0.01	1.1	0.05	5	0.25
07-ARD-287-003	0.25	0.033	22	65	0.36	40	0.085	2	0.51	0.034	0.17	0.05	0.01	1.4	0.1	4	0.25
07-ARD-287-004	0.26	0.044	33	53	0.36	31	0.071	3	0.47	0.026	0.11	0.05	0.01	1.2	0.05	4	0.25
07-ARD-287-006	0.27	0.067	41	58	0.43	39	0.072	4	0.54	0.026	0.18	0.05	0.01	1.4	0.1	5	0.25

Whole Rock and Bulk Metal Analysis

Sample ID	Pit	Lithology		SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P205	Ba(F)	LOI	Total	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	Ga	Se
				%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	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
07-ARD-287-007	Tuzo	Granite	Country Rock	69.96	0.29	15.17	2.39	0.01	1.26	1.36	4.24	3.78	0.13	0.08	1.02	99.69	3.8	5.3	2.3	42	0.05	5.6	3.8	152	1.31	0.25	0.6	0.25	17.2	7	0.05	0.05	0.05	16	0.16	0.055	32	53	0.69	23	0.022	3	0.72	0.029	0.13	0.05	0.005	1.1	0.05	6	0.25
07-ARD-287-008	Tuzo	Granite	Country Rock	69.54	0.24	15.53	2.27	0.01	1.27	1.17	4.14	4.27	0.15	0.08	1.05	99.72	3.2	2.7	1.6	35	0.05	4.8	3.7	130	1.19	0.25	0.4	1	12.5	6	0.05	0.05	0.05	10	0.17	0.061	23	45	0.63	15	0.018	3	0.64	0.022	0.11	0.05	0.005	0.9	0.05	5	0.5
07-ARD-287-009	Tuzo	Granite	Country Rock	68.49	0.25	15.00	1.85	0.01	1.11	0.51	1.72	9.35	0.32	0.15	0.85	99.61	3.3	7.7	2	28	0.05	7.1	3.1	133	1.09	0.25	0.3	0.8	12.7	7	0.05	0.05	0.05	10	0.27	0.125	30	47	0.6	19	0.004	3	0.64	0.012	0.09	0.05	0.005	0.9	0.05	5	0.25
07-ARD-287-010	Tuzo	Granite	Country Rock	72.35	0.27	13.81	1.78	0.01	0.79	0.60	2.66	6.13	0.04	0.08	0.82	99.34	4.4	2.1	4.5	31	0.05	9.5	3.3	112	1.09	0.6	0.7	0.8	34.8	6	0.05	0.05	0.05	14	0.07	0.013	42	64	0.44	20	0.009	3	0.5	0.02	0.1	0.05	0.005	1	0.05	4	0.25
07-ARD-287-011	Tuzo	Granite	Country Rock	72.98	0.25	13.72	1.87	0.01	0.64	0.83	3.07	5.47	0.13	0.09	0.69	99.75	4.3	1.2	5.3	28	0.05	3.4	2.7	90	1.06	0.25	1	0.6	30.3	4	0.05	0.05	0.05	9	0.08	0.012	49	57	0.34	17	0.014	3	0.44	0.02	0.09	0.05	0.01	1	0.05	4	0.25
07-ARD-287-012	Tuzo	Granite	Country Rock	73.47	0.30	13.16	1.98	0.01	0.88	0.59	2.70	5.35	0.03	0.10	0.81	99.38	5.2	2.5	3.2	29	0.05	5.1	3.6	106	1.25	0.7	0.6	1.3	22.7	5	0.05	0.05	0.05	15	0.04	0.011	36	70	0.49	26	0.022	4	0.6	0.021	0.15	0.05	0.005	1.4	0.05	4	0.25
07-ARD-287-013	Tuzo	Granite	Country Rock	66.09	0.67	14.97	3.98	0.02	2.21	0.66	2.46	5.98	0.41	0.09	1.69	99.23	2.9	7	2.3	36	0.05	14.6	6.8	199	2.47	0.25	0.9	0.5	50.4	8	0.05	0.05	0.05	29	0.37	0.183	90	48	1.22	16	0.004	4	1.3	0.018	0.1	0.05	0.01	2.1	0.05	10	0.25
07-ARD-287-014	Tuzo	Granite	Country Rock	66.50	0.74	14.95	4.68	0.02	1.46	1.62	3.32	4.72	0.34	0.07	1.01	99.43	3.7	7	6.9	81	0.05	6	7.6	237	2.54	0.25	1.3	0.7	41.7	6	0.05	0.05	0.05	27	0.43	0.155	83	47	0.69	62	0.118	7	1.12	0.023	0.54	0.05	0.005	3.9	0.3	8	0.25
07-ARD-287-015	Tuzo	Granite	Country Rock	72.54	0.23	13.67	1.70	0.01	0.66	0.61	3.54	6.14	0.03	0.08	0.77	99.98	4.4	1.6	4.3	30	0.05	3.3	2.7	115	1.04	0.5	0.8	1.4	33.4	8	0.05	0.05	0.05	10	0.1	0.014	60	66	0.38	15	0.011	4	0.49	0.022	0.09	0.05	0.01	1	0.05	4	0.25
07-ARD-287-016	Tuzo	Granite	Country Rock	72.56	0.22	13.65	1.50	0.01	1.13	0.21	2.67	6.62	0.03	0.08	0.96	99.64	3.7	13.9	2.3	23	0.05	10.3	2.9	84	0.93	0.25	0.7	0.25	28.9	5	0.05	0.05	0.05	11	0.04	0.01	39	53	0.63	13	0.006	4	0.57	0.018	0.1	0.05	0.005	0.8	0.05	5	0.25
07-ARD-287-017	Tuzo	Granite	Country Rock	73.66	0.21	12.69	1.76	0.01	1.15	0.14	2.09	6.69	0.03	0.08	0.94	99.45	7.2	5.5	2.9	15	0.05	8.2	3	90	1.09	0.25	0.8	0.25	31	5	0.05	0.05	0.05	11	0.05	0.012	53	97	0.62	25	0.002	4	0.69	0.022	0.13	0.05	0.005	0.9	0.05	5	0.6
07-ARD-287-018	Tuzo	Granite	Country Rock	68.85	0.33	14.37	2.46	0.01	1.79	0.51	1.55	7.51	0.14	0.08	1.86	99.46	4.7	15.8	2.3	27	0.05	10.4	4.4	141	1.41	0.25	0.8	0.9	41.3	8	0.05	0.05	0.05	12	0.25	0.055	57	73	0.9	15	0.003	5	0.9	0.018	0.15	0.05	0.01	0.9	0.05	6	0.25
07-ARD-287-019	Tuzo	Granite	Country Rock	71.26	0.32	13.75	1.87	0.01	1.21	0.44	1.75	7.49	0.12	0.08	1.30	99.60	4.4	6.7	4.2	32	0.05	9.8	3.9	123	1.12	0.6	1.3	1.1	34.1	8	0.05	0.05	0.05	12	0.2	0.053	51	64	0.53	17	0.006	6	0.63	0.017	0.14	0.05	0.005	0.8	0.05	4	0.25
07-ARD-287-020	Tuzo	Granite	Country Rock	70.56	0.32	13.72	1.87	0.01	1.17	0.53	2.03	8.22	0.33	0.13	0.84	99.73	4.2	4.8	2.9	29	0.05	5.5	3.6	116	1.18	0.25	0.5	0.25	22.6	7	0.05	0.05	0.05	15	0.28	0.134	39	58	0.67	25	0.025	3	0.68	0.014	0.17	0.05	0.005	1.4	0.1	5	0.25
07-ARD-287-021	Tuzo	Granite	Country Rock	65.97	0.17	15.15	1.55	0.01	2.10	0.95	1.63	8.49	0.05	0.11	3.07	99.25	2.8	17.1	4.1	21	0.05	9	3.3	151	0.94	0.25	1.1	0.25	24.9	9	0.05	0.05	0.05	10	0.67	0.016	48	43	1.12	10	0.001	6	0.73	0.015	0.14	0.05	0.005	0.6	0.05	5	0.25
07-ARD-287-022	Tuzo	Granite	Country Rock	72.82	0.14	12.91	1.10	0.01	1.27	0.22	1.19	8.27	0.06	0.11	1.03	99.13	3.5	3.2	2.4	7	0.05	10.8	2.1	50	0.58	0.5	0.7	1.3	13.5	8	0.05	0.05	0.05	5	0.08	0.026	28	46	0.7	13	0.005	6	0.47	0.014	0.13	0.05	0.005	0.6	0.05	2	0.25
07-ARD-288-001	Tuzo	Granite	Country Rock	70.27	0.28	14.91	1.82	0.01	1.51	0.23	3.30	5.88	0.05	0.09	1.23	99.58	3.5	3.2	3.1	12	0.05	5.7	2.3	65	1.06	0.25	1.4	1	50	5	0.05	0.05	0.05	14	0.04	0.018	68	50	0.77	17	0.004	3	0.72	0.019	0.07	0.1	0.005	1.1	0.05	6	0.6
07-ARD-288-002	Tuzo	Granite	Country Rock	71.55	0.27	14.14	2.03	0.01	0.79	0.39	2.97	6.42	0.08	0.11	0.75	99.51	4.1	1.5	2.9	10	0.05	3.5	1.6	48	0.84	0.7	0.7	0.8	30.4	5	0.05	0.05	0.05	11	0.07	0.033	47	58	0.44	17	0.003	2	0.45	0.021	0.08	0.05	0.005	0.8	0.05	4	0.25
07-ARD-288-003	Tuzo	Granite	Country Rock	69.90	0.32	14.79	2.42	0.01	1.75	0.14	3.94	5.01	0.04	0.04	1.28	99.64	4.1	2.8	1	15	0.05	8	3.9	97	1.47	0.5	0.5	0.6	30.9	4	0.05	0.05	0.05	15	0.06	0.023	23	62	0.97	20	0.006	3	0.9	0.026	0.09	0.05	0.005	1	0.05	8	0.25
07-ARD-288-004	Tuzo	Granite	Country Rock	73.48	0.21	13.57	1.60	0.01	0.45	0.68	2.92	5.95	0.04	0.10	0.59	99.60	4.8	8.9	3.3	21	0.05	6.3	2.5	87	0.89	0.25	0.8	0.8	19.2	4	0.05	0.05	0.05	6	0.04	0.013	31	64	0.23	21	0.007	4	0.35	0.018	0.09	0.05	0.005	0.5	0.05	3	0.25
07-ARD-288-005	Tuzo	Granite	Country Rock	71.37	0.34	13.75	2.12	0.01	1.56	0.26	2.89	5.74	0.12	0.10	1.16	99.42	8.7	2.1	1.8	12	0.05	7.7	2.9	90	1.37	0.25	0.7	0.25	30.6	4	0.05	0.05	0.05	15	0.1	0.052	56	126	0.83	22	0.003	2	0.82	0.02	0.08	0.05	0.005	0.9	0.05	6	0.25
07-ARD-288-006	Tuzo	Granite	Country Rock	72.64	0.22	13.79	1.50	0.01	1.46	0.34	2.53	6.49	0.03	0.08	0.89	99.98	3.5	1.5	2.4	14	0.05	4.5	2.2	60	0.8	0.25	0.9	0.25	23.4	3	0.05	0.05	0.05	9	0.04	0.011	33	50	0.41	16	0.002	3	0.47	0.014	0.08	0.05	0.005	0.6	0.05	3	0.25
07-ARD-288-007	Tuzo	Granite	Country Rock	72.54	0.25	14.05	1.48	0.01	0.98	0.29	2.84	6.03	0.05	0.08	0.89	99.49	4.8	1	2.7	8	0.05	4.1	1.8	57	0.85	0.25	1.1	0.5	28.1	4	0.05	0.05	0.05	8	0.04	0.022	48	66	0.47	20	0.002	10	0.52	0.023	0.09	0.05	0.005	0.7	0.05	4	0.25
07-ARD-288-008	Tuzo	Granite	Country Rock	71.50	0.25	13.75	1.79	0.01	1.41	0.43	2.59	6.40	0.08	0.08	1.40	99.69	2.7	2.1	2.2	12	0.05	10	2.9	118	1.03	0.25	0.5	0.6	31.6	7	0.05	0.05	0.05	10	0.18	0.031	74	38	0.77	13	0.003	10	0.61	0.013	0.08	0.05	0.005	0.8	0.05	5	0.25
07-ARD-288-009	Tuzo	Granite	Country Rock	72.54	0.24	13.85	1.80	0.01	1.10	0.38	2.86	5.77	0.07	0.08	0.95	99.65	4.2	1.9	3	17	0.3	7.4	2.8	92	1.11	0.25	0.7	0.25	33.5	5	0.05	0.05	0.05	11	0.06	0.03	56	57	0.61	19	0.005	10	0.61	0.023	0.09	1.5	0.005	1	0.05	5	0.25
07-ARD-288-010	Tuzo	Granite	Country Rock	70.59	0.30	14.14	2.09	0.01	1.19	0.39	1.73	7.59	0.07	0.08	1.24	99.42	4.4	9.8	11.5	31	0.05	22.3	5.1	119	1.31	0.25	1.2	1.1	52.5	9	0.05	0.2	0.05	12	0.09	0.019	67	66	0.66	19	0.009	10	0.71	0.018	0.15	0.05	0.005	1.2	0.05	5	0.25
07-ARD-288-011	Tuzo	Granite	Country Rock	70.67	0.37	14.12	2.50	0.01	1.16	0.90	2.56	5.66	0.14	0.10	1.11	99.30	5.5	5.3	8.4	50	0.05	5.2	4.7	158	1.49	0.25	0.9	0.25	49.8	7	0.05	0.1	0.05	15	0.21	0.058	75	69	0.65	23	0.025	10	0.72	0.023	0.14	0.05	0.005	1.7	0.1	5	0.25
07-ARD-289-001	Tuzo	Granite	Country Rock	69.12	0.34	15.82	2.66	0.02	0.82	2.53	4.56	2.59	0.11	0.07	0.56	99.20	5.1	5	6.7	73	0.05	8	5.7	247	1.59	0.25	0.3	0.25	5.6	15	0.05	0.1	0.05	22	0.28	0.055	22	78	0.49	86	0.124	10	0.68	0.048	0.39	0.05	0.005	2.2	0.2	5	0.25
07-ARD-289-002	Tuzo	Granite	Country Rock	70.33	0.24	15.84	2.03	0.02	0.69	2.45	4.57	2.88	0.10	0.08	0.43	99.66	3.6	16.5	3.5	51	0.05	5.6	4	193	1.3	0.25	0.2	0.25	5.5	8	0.05	0.05	0.05	12	0.2	0.042	14	53	0.38	57	0.112	10	0.54	0.028	0.32	0.05	0.005	2	0.1	4	0.25
07-ARD-289-003	Tuzo	Granite	Country Rock	70.48	0.25	15.75	2.12	0.01	0.66	2.31	4.43	2.86	0.08	0.08	0.60	99.63	4.2	9.5	5.1	51	0.05	5.8	3.7	149	1.18	0.25	0.4	0.25	8.6	13	0.05	0.05	0.05	14	0.23	0.031	22	58	0.37	45	0.096	10	0.52	0.034	0.21	0.05	0.005	1.7	0.1	4	0.25
07-ARD-289-004	Tuzo	Granite	Country Rock	71.37	0.22	15.33	1.91	0.01	0.51	2.14	4.22	3.41	0.10	0.10	0.41	99.73	5.6	7.9	5.1	47	0.05	6	3.9	136	1.2	0.25	0.5	0.25	12.1	12	0.05	0.05	0.05	15	0.21	0.046	25	76	0.31	45	0.081	10	0.47	0.041	0.22	0.05	0.005	1.5	0.1	4	0.25
07-ARD-289-005	Tuzo	Granite	Country Rock	70.26	0.24	16.05	1.97	0.01	0.66	2.04	4.45	3.22	0.10	0.08	0.78	99.86	5.1	5.6	6.2	51	0.05	5.1	3.4	162	1.18	0.25	0.3	0.9	10.2	16	0.05	0.1	0.05	12	0.29	0.039	21	72	0.38	26	0.068	10	0.56	0.042	0.12	0.05	0.005	1.3	0.05	4	0.25
07-ARD-289-006	Tuzo	Granite	Country Rock	73.93	0.15	13.07	1.59	0.01	0.93	0.49	3.46	5.42	0.03	0.09	0.76	99.93	6.3	6.2	7.3	25	0.05	3.7	2.7	102	1.02	0.25	0.6	0.25	22.5	7	0.05	0.7	0.05	11	0.05	0.014	40	84	0.44	21	0.008	10	0.53	0.03	0.12	0.05	0.005	0.9	0.05	4	0.25
07-ARD-289-007	Tuzo	Granite	Country Rock	66.57	0.72	14.77	4.49	0.01	2.02	1.31	3.31	4.54	0.33	0.07	1.32	99.46	4.1	8.7	6.8	91	0.05	10.2	8.8	219	2.99	0.25	1	0.5	33.8	7	0.05	0.1	0.05	31	0.42	0.147	71	66	1.23	109	0.178	10	1.41	0.032	0.73	0.1	0.005	6.3	0.4	10	0.25
07-ARD-289-008	Tuzo	Granite	Country Rock	72.45	0.34	13.47	2.72	0.01	0.70	1.08	2.87	5.04	0.05	0.07	0.56	99.36	5.7	4	10.3	52	0.05	4.9	4.4	140	1.79	0.25	1.6	0.25	50.1	6	0.05	0.1	0.05	19	0.09	0.018	74	75	0.42	45	0.09	10	0.69	0.031	0.4	0.05	0.005	2.6	0.2	6	0.25
07-ARD-289-009	Tuzo	Granite	Country Rock	72.20	0.28	14.09	1.99	0.01	1.00	0.50	3.23	5.04	0.08	0.07	0.96	99.45	4.9	2	3.5	26	0.05	4.6	2.9	110	1.3	0.25	0.9	0.25	39	4	0.05	0.1	0.05	10	0.08	0.032	55	72	0.59	16	0.005	10	0.71	0.033	0.1	0.05	0.005	1	0.05	5	0.25
07-ARD-289-010	Tuzo	Granite	Country Rock	73.57	0.22	13.84	1.48	0.01	0.59	0.85	3.05	5.19	0.03	0.08	0.62	99.53	6.2	2.7	5.8	27	0.05	3.9	2.6	101	0.97	0.25	0.7	0.25	29.2	6	0.05	0.05	0.05	10	0.04	0.01	49	83	0.34	25	0.022	10	0.49	0.033	0.17	0.05	0.005	1.1	0.1	3	0.25
07-ARD-289-011	Tuzo	Granite	Country Rock	70.26	0.35	14.56	2.52	0.01	1.10	0.93	3.65	5.59	0.16	0.08	0.76	99.97	5.2	7.7	8.2	50	0.05	7.4	4.7	142	1.69	0.25	1.1	0.25	43.4	6	0.05	0.05	0.05	18	0.15	0.071	77	74	0.66	50	0.094	10	0.84	0.035	0.42	0.05	0.005	3	0.2	7	0.25
07-ARD-289-012	Tuzo	Granite	Country Rock	71.10	0.34	14.32	2.35	0.01	0.77	1.00	3.10	5.49	0.14	0.08	0.69	99.39	5.2	4.6	7.3	43	0.05	5.1	3.7	144	1.54	0.25	1	0.25	37.5	6	0.05	0.1	0.05	15	0.17	0.061	59	74	0.45	31	0.055	10	0.65	0.032	0.25	0.05	0.005	2	0.1	5	0.25
07-ARD-289-013	Tuzo	Granite	Country Rock	71.16	0.33	14.12	2.56	0.01	0.72	1.15	3.23	5.06	0.12	0.08	0.80	99.34	5.2	4.2	8.5	42	0.05	5.4	4.2	123	1.63	0.25	1.1	0.25	40.9	8	0.05	0.05	0.05	16	0.28	0.052	60	73	0.42	29	0.068	10	0.64	0.036	0.19	0.05	0.005	1.7	0.1	5	0.25
07-ARD-289-014	Tuzo	Granite	Country Rock	70.87	0.33	14.12	2.46	0.01	0.79	0.93	2.91	5.80	0.18	0.09	0.76	99.25	4.9	2.7	9.7	43	0.05	5.1	4	135	1.63	0.25	1	0.25	40.9	8	0.05	0.05	0.05	18	0.25	0.076	62	73	0.48	39	0.061	10	0.65	0.029	0.27	0.05	0.005	1.9	0.1	5	0.25
07-ARD-289-015	Tuzo	Granite	Country Rock	71.23	0.26	13.95	1.74	0.02	0.71	0.67	2.35	7.29	0.20	0.11	0.74	99.27	5.6	11.3	6.1	33	0.05	3.6	3.6	149	1.22	0.25	0.7	0.25	30.6	7	0.05	0.05	0.05	10	0.31	0.088	49	73	0.43	24	0.03	10	0.55	0.025	0.16	0.1	0.005	1.7	0.1	4	0.25
07-ARD-289-016	Tuzo	Granite	Country Rock	73.20	0.23	13.40	1.97	0.01	0.58	0.97	2.76	5.78	0.11	0.07	0.55	99.63	5.4	2.8	8.2	33	0.05	3.9	3	108	1.31	0.25	1.2	0.25	35.2	7	0.05	0.05	0.05	13	0.22	0.05	53	72	0.35	28	0.073	10	0.52	0.029	0.24	0.05	0.005	1.9	0.1	4	0.25
07-ARD-289-017	Tuzo	Granite	Country Rock	71.47	0.32	14.08	2.30	0.01	0.82	1.06	2.93	5.59	0.15	0.07	0.73	99.53	4.8	5.2	7.3	35	0.05	5	3.9	182	1.58	0.25	1.1	0.25	45.2	9	0.05	0.05	0.05	20	0.2	0.059	63	68	0.5	31	0.083	10	0.62	0.029	0.28	0.05	0.005	2.1	0.1	5	0.25
07-ARD-289-018	Tuzo	Granite	Country Rock	74.22	0.21	13.31	1.33	0.01	0.58	1.13	2.71	5.21	0.04	0.06	0.58	99.39	3.7	2.8	7	26	0.05	4.1	2.6	98	0.88	0.25	0.9	0.25	34.2	6	0.05	0.1	0.05	9	0.1	0.018	52	53	0.31	20	0.054	10	0.41	0.019	0.19	0.05	0.005	1.4	0.1	3	0.25
07-ARD-289-019	Tuzo	Granite	Country Rock	73.95	0.16	13.54	1.24	0.02	0.55	0.78	2.91	5.77	0.03	0.06	0.65	99.66	4.9	1.4	5.1	19	0.05	2.7	2.1	82	0.79	0.25	0.8	0.25	31	5	0.05	0.05	0.05	5	0.09	0.014	48	62	0.32	10	0.01	10	0.37	0.023	0.08	0.05	0.005	0.7	0.05	3	0.25
07-ARD-289-020	Tuzo	Granite	Country Rock	70.21	0.29	15.02	2.01	0.01	0.66	1.09	2.96	6.20	0.09	0.11	0.75	99.40	4.9	3.1	9.4	38	0.05	4.5	3.5	139	1.3	0.25	0.8	0.25	43.4	9	0.05	0.05	0.05	14	0.23	0.044	60	69	0.38	23	0.05	10	0.52	0.032	0.15	0.05	0.005	1.6	0.05	4	0.25
07-ARD-289-021	Tuzo	Granite	Country Rock	72.89	0.28	13.66	2.01	0.01	0.75	0.93	2.91	5.00	0.04	0.09	0.87	99.44	5.3	4.2	7.9	36	0.05	4.3	3.5	103	1.15	0.25	0.8	0.25	46.5	9	0.05	0.05	0.05	11	0.16	0.019	60	64	0.41	18	0.029	10	0.51	0.028	0.1	0.05	0.005	1.3	0.05	4	0.25
07-ARD-289-022	Tuzo	Granite	Country Rock	69.66	0.45	14.32	3.13	0.02	1.33	1.10	2.87	5.28	0.19	0.11	1.11	99.57	5.2	6.1	7.1	53	0.05	6.6	5.3	169	2	0.25	1.2	0.8	68.2	8	0.05	0.05	0.05	24	0.3	0.086	89	70	0.78	69	0.075	10	0.9	0.032	0.38	0.05	0.005	2.5	0.2	6	0.25
07-ARD-289-023	Tuzo	Granite	Country Rock	69.10	0.43	14.71	3.02	0.01	1.19	1.02	3.31	5.62	0.19	0.13	1.11	99.84	5.9	6.1	10.5	51	0.05	7.6	5.9	186	1.91	0.5	1.3	0.25	76.2	13	0.05	0.05	0.05	23	0.3	0.084	98	79	0.73	43	0.036	10	0.83	0.038	0.22	0.05	0.005	2.2	0.1	6	0.25
07-ARD-289-024	Tuzo	Granite	Country Rock	69.81	0.43	14.54	3.03	0.02	0.78	1.61	3.00	5.28	0.17	0.13	0.81	99.61	5.7	3.8	7.1	58	0.05	5.7	4.8	158	1.8	0.25	0.5	0.25	20	12	0.05	0.05	0.05	24	0.42	0.069	63	74	0.44	53	0.101	10	0.63	0.033	0.24	0.05	0.005	2.3	0.1	5	0.25
07-ARD-289-025	Tuzo	Granite	Country Rock	68.53	0.53	14.95	3.44	0.03	1.02	1.69	3.33	4.97	0.20	0.13	0.76	99.58	5.8	3.2	6.3	71	0.05	7.8	6.5	208	2.22	0.25	0.8	0.25	26.5	15	0.05	0.05	0.05	42	0.39	0.08	70	82	0.63	89	0.144	10	0.84	0.043	0.49	0.05	0.005	3.3	0.3	5	0.25
07-ARD-290-001	Tuzo	Granite	Country Rock	70.35	0.24	15.37	1.77	0.01	1.55	0.37	3.93	4.10	0.13	0.09	1.54	99.45	3	0.8	1.9	24	0.05	5.7	3.1	117	1.09	0.25	0.3	0.25	4.1	5	0.05	0.05	0.05	13	0.13	0.063	15	42	0.78	18	0.002	10	0.82	0.024	0.09	0.05	0.005	0.7	0.05	6	0.25
07-ARD-290-002	Tuzo	Granite	Country Rock	68.97	0.27	14.24	2.40	0.01	4.19	0.27	0.01	3.53	0.14	0.04	5.10	99.17	5.4	1.4	1.1	25	0.05	11.6	3.9	136	1.46	0.25	0.2	0.25	5.1	6	0.05	0.05	0.05	13	0.19	0.072	29	81	1.63	8	0.001	10	1.72	0.004	0.16	0.1	0.005	0.9	0.05	7	0.25
07-ARD-290-003	Tuzo	Granite	Country Rock	67.94	0.22	14.87	2.17	0.01	4.09	0.23	1.20	4.86	0.12	0.10	4.15	99.96	5.8	2.2	3.7	21	0.05	10.7	3.9	108	1.35	0.25	0.3	0.25	12.3	9	0.05	0.05	0.05	14	0.15	0.055	35	84	1.76	17	0.001	10	1.86	0.008	0.15	0.05	0.005	1.1	0.05	7	0.25
07-ARD-290-004	Tuzo	Granite	Country Rock	69.95	0.25	15.34	2.10	0.01	1.87	0.37	4.32	3.52	0.08	0.06	1.64	99.51	4.2	1.4	1	16	0.05	6.5	3.5	92	1.27	0.25	0.3	0.25	9.1	6	0.05	0.05	0.05	15	0.09	0.039	23	59	1	16	0.005	10	0.91	0.032	0.09	0.05	0.005	0.7	0.05	7	0.25
07-ARD-290-005	Tuzo	Granite	Country Rock	70.82	0.24	14.21	1.99	0.01	1.64	0.32	2.89	5.55	0.14	0.11	1.30	99.22	4.2	5.7	3.3	21	0.05	5.7	2.9	92	1.18	0.25	0.9	0.25	37.1	7	0.05	0.05	0.05	15	0.11	0.056	56	68	0.83	22	0.004	10	0.86	0.026	0.09	0.05	0.005	1.1	0.05	6	0.25
07-ARD-290-006	Tuzo	Granite	Country Rock	71.36	0.20	14.23	2.05	0.01	1.31	0.38	2.92	5.63	0.15	0.12	1.13	99.49	6.6	3.7	3.9	21	0.05	6.1	3.1	100	1.26	0.25	2.4	1.7	42.9	10	0.05	0.05	0.05	13	0.14	0.065	72	87	0.7	31	0.003	10	0.85	0.03	0.12	0.05	0.005	1.2	0.05	6	0.25
07-ARD-290-007	Tuzo	Granite	Country Rock	71.04	0.23	14.96	2.23	0.01	1.26	0.60	3.92	4.23	0.07	0.06	1.22	99.83	5.2	4.6	2	11	0.05	5.1	4	70	1.19	0.25	1	0.8	13.4	5	0.05	0.05	0.05	11	0.09	0.033	29	65	0.63	13	0.003	10	0.71	0.031	0.11	0.05	0.005	0.8	0.05	5	0.25
07-ARD-290-008	Tuzo	Granite	Country Rock	69.85	0.43	14.33	2.74	0.01	1.51	0.65	3.14	5.07	0.21	0.08	1.22	99.24	5.2	1.6	2.4	24	0.05	6.7	4.4	137	1.64	0.25	0.8	1.6	30.3	6	0.05	0.05	0.05	17	0.19	0.091	58	73	0.82	20	0.009	10	0.93	0.03	0.12	0.2	0.005	1.7	0.05	7	0.25
07-ARD-290-009	Tuzo	Granite	Country Rock	69.74	0.30	13.99	2.80	0.01	1.91	0.24	2.18	6.55	0.17	0.07	1.41	99.37	3.7	5	3.7	21	0.05	15.6	5.8	143	1.79	0.25	0.7	0.9	33.4	6	0.05	0.05	0.05	18	0.14	0.075	98	53	1.11	19	0.002	10	1.06	0.014	0.08	0.4	0.005	1.1	0.05	7	0.25
07-ARD-290-010	Tuzo	Granite	Country Rock	72.82	0.20	13.79	1.59	0.01	0.99	0.29	2.70	6.16	0.02	0.07	0.90	99.54	8.7	1.7	3	17	0.05	6.6	2.6	94	0.98	0.25	1.3	2.2	28	6	0.05	0.05	0.05	10	0.06	0.014	47	109	0.47	28	0.002	10	0.61	0.042	0.16	0.05	0.005	0.9	0.05	5	0.25
07-ARD-290-011	Tuzo	Granite	Country Rock	68.25	0.48	14.85	3.18	0.01	1.77	0.63	3.07	5.80	0.31	0.08	1.44	99.87	4.2	2.5	2.5	36	0.05	9.3	5.2	218	1.99	0.25	1.1	1.1	40.6	7	0.05	0.05	0.05	21	0.27	0.138	62	58	0.98	21	0.009	10	1.12	0.028	0.12	0.05	0.005	1.4	0.05	7	0.25
07-ARD-290-012	Tuzo	Granite	Country Rock	71.80	0.25	13.90	1.59	0.01	1.14	0.30	1.93	7.42	0.08	0.09	0.97	99.48	2.5	4.6	2.7	21	0.05	9.5	2.9	87	1.01	0.25	0.5	1.2	27.3	5	0.05	0.05	0.05	11	0.08	0.038	41	37	0.59	16	0.013	10	0.59	0.011	0.11	0.05	0.005	1	0.05	4	0.25
07-ARD-290-013	Tuzo	Granite	Country Rock	61.17	0.35	12.31	3.53	0.06	5.12	2.92	1.29	5.90	0.14	0.07	6.26	99.12	3.5	16.7	3.7	24	0.05	134.2	10.3	443	2.28	0.25	1	1.4	21	55	0.05	0.05	0.05	24	1.88	0.055	49	100	3.11	47	0.04	10	1.22	0.021	0.22	0.3	0.005	3	0.1	6	0.25
07-ARD-290-014	Tuzo	Granite	Country Rock	72.82	0.23	13.85	1.74	0.01	0.91	0.42	2.86	5.98	0.10	0.08	0.89	99.89	6.1	1.7	3.3	22	0.05	5.2	2.5	86	0.99	0.25	1.7	1	34.1	6	0.05	0.05	0.05	10	0.07	0.016	56	78	0.42	18	0.003	10	0.52	0.026	0.12	0.05	0.005	0.8	0.05	4	0.25
07-ARD-290-015	Tuzo	Granite	Country Rock	71.71	0.30	13.90	2.20	0.01	1.25	0.39	2.74	5.79	0.15	0.08	1.08	99.60	4.4	4.2	2.5	17	0.05	7.3	3.4	88	1.34	0.25	0.9	1.2	40	5	0.05	0.05	0.05	15	0.14	0.061	54	59	0.68	15	0.004	10	0.71	0.021	0.08	0.05	0.005	1.6	0.05	6	0.25
07-ARD-290-017	Tuzo	Granite	Country Rock	71.39	0.33	13.93	2.52	0.01	1.17	0.52	2.72	5.76	0.03	0.07	1.06	99.51	3.8	2.3	3.7	27	0.05	6.3	3.6	115	1.47	0.25	1.1	0.25	55.2	6	0.05	0.05	0.05	15	0.05	0.015	69	51	0.63	11	0.002	10	0.81	0.014	0.06	0.05	0.005	1.1	0.05	6	0.25
07-ARD-290-018	Tuzo	Granite	Country Rock	71.13	0.35	14.05	2.33	0.01	0.96	0.61	2.66	6.09	0.09	0.06	1.01	99.35	4.9	5.1	5.4	36	0.05	6.6	3.9	130	1.27	0.25	1.2	0.25	51.3	5	0.05	0.05	0.05	13	0.13	0.013	75	66	0.52	12	0.008	10	0.58	0.02	0.11	0.05	0.005	1.2	0.05	5	0.25
07-ARD-290-019	Tuzo	Granite	Country Rock	71.00	0.29	14.09	1.84	0.01	1.11	0.57	2.32	6.87	0.31	0.10	1.05	99.56	7.4	4	3.4	17	0.05	7	3.3	101	1.16	1	1.2	1.2	46.1	9	0.05	0.05	0.05	11	0.31	0.135	71	86	0.6	29	0.003	10	0.73	0.03	0.15	0.05	0.005	1.2	0.05	5	0.25
07-ARD-290-020	Tuzo	Granite	Country Rock	68.90	0.44	14.31	2.94	0.02	1.99	0.46	2.28	6.02	0.20	0.11	1.59	99.26	2.6	8.7	2.6	27	0.05	13.5	6	155	1.74	0.25	0.9	2	54.9	7	0.05	0.05	0.05	18	0.24	0.085	79	40	1.08	12	0.005	10	1.02	0.013	0.08	0.1	0.005	1.4	0.1	7	0.25
07-ARD-291-001	Tuzo	Granite	Country Rock	70.43	0.40	14.37	2.82	0.01	1.03	0.78	3.09	5.43	0.17	0.10	0.98	99.61	4.1	2.5	5.7	47	0.05	6.3	4.4	177	1.48	0.25	0.8	0.7	46.9	5	0.05	0.05	0.05	14	0.15	0.073	82	57	0.54	28	0.017	10	0.66	0.019	0.14	0.05	0.005	1.2	0.05	5	0.25
07-ARD-291-002	Tuzo	Granite	Country Rock	71.12	0.33	13.37	2.40	0.01	2.31	0.21	1.84	6.12	0.15	0.09	1.58	99.53	6.1	3.8	1.9	40	0.05	6.7	3.1	100	1.58	0.25	1.3	0.8	48.5	6	0.2	0.05	0.05	22	0.13	0.066	111	78	1.31	29	0.003	10	1.18	0.018	0.13	0.05	0.005	1.6	0.05	8	0.25
07-ARD-291-003	Tuzo	Granite	Country Rock	70.01	0.41	14.41	2.49	0.01	1.56	0.42	2.93	5.56	0.18	0.10	1.28	99.36	5.8	2.3	3.8	15	0.05	5.9	4.5	100	1.57	0.25	0.9	1.4	50.1	7	0.05	0.05	0.05	17	0.16	0.082	96	74	0.88	27	0.004	10	0.94	0.029	0.13	0.05	0.005	1.5	0.05	6	0.25
07-ARD-291-004	Tuzo	Granite	Country Rock	69.54	0.43	14.46	2.97	0.02	0.95	1.40	4.06	5.08	0.18	0.12	0.97	100.18	6.8	5.1	12	48	0.05	6.6	5.1	153	1.87	0.25	1	0.8	65.9	11	0.05	0.05	0.05	23	0.35	0.084	69	85	0.54	56	0.084	10	0.73	0.035	0.28	0.05	0.005	2.6	0.1	6	0.25
07-ARD-291-005	Tuzo	Granite	Country Rock	69.45	0.45	14.47	3.16	0.01	0.98	1.43	2.91	5.23	0.17	0.13	0.98	99.37	5.9	6.6	4.2	49	0.05	6.2	5.5	162	1.99	0.25	0.6	1.4	17.5	11	0.05	0.05	0.05	21	0.35	0.086	62	67	0.57	58	0.089	10	0.76	0.029	0.26	0.1	0.005	2.3	0.1	5	0.25
07-ARD-291-006	Tuzo	Granite	Country Rock	69.11	0.48	14.65	3.31	0.02	0.97	1.62	3.35	4.70	0.17	0.12	0.90	99.40	4.4	5.3	4.6	65	0.05	6	5.7	163	1.97	0.25	0.5	0.6	19.5	8	0.05	0.05	0.05	26	0.38	0.073	55	55	0.54	62	0.107	10	0.73	0.024	0.34	0.05	0.005	3.2	0.2	5	0.25
07-ARD-291-007	Tuzo	Granite	Country Rock	64.43	0.78	14.71	7.44	0.03	1.10	1.91	3.60	4.74	0.26	0.10	0.76	99.86	6.6	5.4	4.4	70	0.05	7.1	6.4	179	3.88	0.25	0.5	0.6	21.1	9	0.05	0.1	0.05	63	0.45	0.107	57	50	0.54	55	0.097	10	0.64	0.019	0.33	0.05	0.005	3	0.2	10	0.25
07-ARD-291-008	Tuzo	Granite	Country Rock	67.57	0.39	15.32	2.52	0.02	1.15	0.87	2.28	8.11	0.21	0.21	0.73	99.38	4.3	31	2.4	60	0.05	8.7	7	204	1.67	0.25	0.2	0.8	5.9	10	0.05	0.05	0.05	13	0.24	0.083	17	54	0.67	93	0.12	10	0.85	0.019	0.53	0.05	0.005	3	0.3	5	0.25
07-ARD-291-009	Tuzo	Granite	Country Rock	71.79	0.35	13.65	2.45	0.01	0.88	1.17	2.70	5.39	0.12	0.09	0.82	99.42	5.3	11.2	7.3	45	0.05	10.5	4	154	1.55	0.25	0.8	0.25	40	7	0.05	0.05	0.05	16	0.19	0.046	58	62	0.51	47	0.071	10	0.65	0.024	0.34	0.05	0.005	2.3	0.2	4	0.25
07-ARD-291-010	Tuzo	Granite	Country Rock	68.70	0.50	14.82	3.41	0.03	1.11	1.19	3.21	5.00	0.20	0.13	1.13	99.43	5.8	6.3	3.1	65	0.05	7.4	5.7	239	1.9	0.25	0.5	1.2	17	9	0.05	0.05	0.05	21	0.3	0.086	55	73	0.62	35	0.048	10	0.76	0.031	0.14	0.4	0.005	2.4	0.05	6	0.25
07-ARD-292-001	Tuzo	Granite	Country Rock	71.85	0.15	12.03	3.37	0.01	4.09	0.13	2.18	3.46	0.05	0.05	2.27	99.64	3.4	6.2	1.1	27	0.05	26.7	5.2	135	2.21	0.25	0.5	0.25	20.7	5	0.05	0.05	0.05	28	0.07	0.027	46	44	2.38	13	0.002	10	1.79	0.011	0.04	0.05	0.005	1.6	0.05	12	0.25
07-ARD-292-002	Tuzo	Granite	Country Rock	70.10	0.26	14.79	1.92	0.01	1.74	0.14	2.87	6.31	0.04	0.10	1.25	99.53	3.9	2.1	2.5	21	0.05	9	2.9	97	1.17	0.25	0.7	0.25	31.8	6	0.05	0.05	0.05	14	0.03	0.017	56	51	0.9	25	0.002	10	0.85	0.02	0.08	0.05	0.005	0.9	0.05	7	0.25
07-ARD-292-003	Tuzo	Granite	Country Rock	70.17	0.22	14.35	2.61	0.01	2.48	0.24	2.92	4.92	0.15	0.06	1.67	99.80	3.4	2.7	2.6	24	0.05	13.5	3.9	175	1.51	0.5	0.6	0.9	18.9	7	0.05	0.1	0.05	16	0.12	0.061	47	46	1.28	17	0.001	10	1.09	0.015	0.08	0.05	0.005	1	0.05	8	0.25
07-ARD-292-004	Tuzo	Granite	Country Rock	71.30	0.29	14.23	2.07	0.01	1.19	0.26	2.78	6.13	0.15	0.09	1.01	99.51	5.9	1.4	2.4	16	0.05	5.9	2.7	84	1.24	0.5	1.2	0.25	43.7	5	0.05	0.05	0.05	11	0.1	0.055	63	73	0.62	25	0.002	10	0.79	0.026	0.11	0.05	0.005	1	0.05	6	0.25
07-ARD-292-005	Tuzo	Granite	Country Rock	70.45	0.32	14.42	2.15	0.01	1.80	0.36	2.77	6.26	0.25	0.10	1.10	99.99	4.4	1.4	3.4	17	0.05	7.2	3	91	1.27	0.5	1.4	0.25	45.5	6	0.05	0.05	0.05	13	0.17	0.079	56	58	0.68	24	0.002	10	0.8	0.022	0.09	0.05	0.005	1.2	0.05	6	0.25
07-ARD-292-006	Tuzo	Granite	Country Rock	74.12	0.25	13.20	1.34	0.01	1.00	0.12	2.94	5.78	0.03	0.08	0.92	99.79	5.8	1.2	1.8	10	0.05	5.2	1.9	62	0.77	0.25	1	0.5	30	5	0.05	0.05	0.05	9	0.02	0.014	50	68	0.47	19	0.002	10	0.52	0.025	0.1	0.05	0.005	0.8	0.05	4	0.25
07-ARD-292-007	Tuzo	Granite	Country Rock	71.41	0.29	13.96	1.92	0.01	1.74	0.20	2.63	6.13	0.12	0.08	1.21	99.70	5.1	1.3	2	17	0.05	5.3	2.4	113	1.21	0.25	1.1	0.6	32.6	4	0.05	0.05	0.05	9	0.1	0.051	29	70	0.91	20	0.004	10	0.92	0.026	0.11	0.05	0.005	1.1	0.05	6	0.25
07-ARD-293-001	Tuzo	Granite	Country Rock	70.69	0.35	14.16	2.17	0.01	1.47	0.35	2.98	5.79	0.19	0.09	1.08	99.33	6.2	2.9	2.4	13	0.05	5.2	2.5	94	1.37	0.25	0.7	0.8	33.7	5	0.05	0.05	0.05	16	0.15	0.08	45	81	0.82	22	0.005	10	0.87	0.029	0.1	0.05	0.005	1.3	0.05	6	0.25
07-ARD-293-002	Tuzo	Granite	Country Rock	73.19	0.23	13.78	1.55	0.01	0.54	0.89	2.95	5.45	0.03	0.08	0.54	99.24	5.7	1.3	6.4	30	0.05	3.8	2.7	88	0.98	0.25	0.8	0.8	27.8	5	0.05	0.05	0.05	11	0.03	0.013	44	70	0.29	32	0.03	10	0.46	0.025	0.19	0.05	0.005	1.4	0.1	3	0.25
07-ARD-293-003	Tuzo	Granite	Country Rock	71.12	0.31	14.17	2.29	0.01	0.86	0.80	2.12	6.95	0.14	0.08	0.84	99.69	6.1	4.3	8.1	46	0.05	10.6	4	112	1.39	0.25	1	0.8	37.9	10	0.05	0.2	0.05	14	0.14	0.061	58	84	0.43	43	0.05	10	0.66	0.023	0.3	0.05	0.005	1.7	0.1	5	0.25
07-ARD-293-004	Tuzo	Granite	Country Rock	73.21	0.24	13.83	1.87	0.01	0.61	0.78	2.99	5.68	0.04	0.08	0.61	99.95	5.2	1.7	7.6	33	0.05	5.4	2.9	88	1.12	0.25	0.9	0.25	33	5	0.05	0.05	0.05	11	0.03	0.015	53	63	0.32	28	0.027	10	0.5	0.023	0.18	0.05	0.005	1.3	0.1	4	0.25
07-ARD-293-005	Tuzo	Granite	Country Rock	73.15	0.22	13.90	1.67	0.01	0.76	0.57	2.73	5.95	0.04	0.09	0.74	99.83	4.1	8.1	3.7	17	0.05	7.7	2.8	80	0.98	0.25	0.6	3.1	26.1	4	0.05	0.05	0.05	10	0.04	0.018	35	61	0.39	18	0.006	10	0.45	0.021	0.09	0.1	0.01	0.9	0.05	4	0.25
07-ARD-293-006	Tuzo	Granite	Country Rock	70.80	0.29	14.51	2.15	0.01	1.11	0.71	2.88	6.03	0.15	0.10	1.06	99.80	4.7	3.7	3.9	11	0.05	5.8	3.5	87	1.16	0.25	0.9	3.2	39.1	5	0.05	0.05	0.05	12	0.17	0.046	59	67	0.53	18	0.004	10	0.56	0.025	0.1	0.05	0.005	1.2	0.05	4	0.25
07-ARD-293-007	Tuzo	Granite	Country Rock	72.23	0.25	14.07	1.92	0.01	1.07	0.56	3.00	5.48	0.09	0.09	0.92	99.69	6.4	1.6	4.6	16	0.05	7.3	3.1	89	1.13	0.25	0.7	1.3	35.2	5	0.05	0.05	0.05	15	0.07	0.032	51	96	0.56	24	0.003	10	0.63	0.046	0.13	0.05	0.005	1.3	0.05	5	0.25
07-ARD-293-008	Tuzo	Granite	Country Rock	72.60	0.29	13.86	1.98	0.01	1.45	0.29	3.12	5.09	0.07	0.07	1.05	99.88	4.8	1.9	3.6	15	0.2	5.7	3	93	1.18	0.25	1.2	1.8	47.2	4	0.05	0.05	0.05	14	0.05	0.026	52	68	0.73	17	0.002	10	0.7	0.031	0.09	0.4	0.005	1.2	0.05	5	0.25
07-ARD-293-009	Tuzo	Granite	Country Rock	72.17	0.28	14.13	1.66	0.02	1.00	0.96	2.61	6.20	0.14	0.10	0.61	99.88	4.5	1.9	7	37	0.05	4.3	3.2	145	1.06	0.25	1	1.1	27.1	5	0.05	0.05	0.05	10	0.13	0.043	46	64	0.38	37	0.051	10	0.52	0.022	0.27	0.05	0.005	1.6	0.2	4	0.25
07-ARD-293-010	Tuzo	Granite	Country Rock	71.65	0.28	14.08	1.68	0.02	0.81	0.74	2.60	7.09	0.18	0.10	0.76	99.99	5.5	2.4	5.2	33	0.05	10.4	4.3	127	1.06	0.25	0.5	0.5	20.5	8	0.05	0.05	0.05	12	0.2	0.073	37	72	0.47	30	0.025	10	0.5	0.023	0.17	0.05	0.01	1.4	0.1	4	0.25
07-ARD-293-011	Tuzo	Granite	Country Rock	70.73	0.28	15.33	2.17	0.02	0.87	2.08	4.05	3.28	0.09	0.08	0.61	99.59	5.1	6	5.3	43	0.05	5.8	4.2	158	1.25	0.25	0.4	0.8	22.9	10	0.05	0.05	0.05	19	0.18	0.039	41	75	0.48	47	0.087	10	0.57	0.042	0.27	0.05	0.005	1.5	0.1	4	0.25
07-ARD-293-012	Tuzo	Granite	Country Rock	70.07	0.27	15.66	2.16	0.03	0.86	1.95	3.51	4.44	0.09	0.10	0.65	99.79	5.1	2.2	6.5	43	0.05	5.1	3.7	168	1.21	0.25	0.3	0.25	15.1	12	0.05	0.05	0.05	17	0.15	0.034	23	69	0.47	49	0.074	10	0.58	0.037	0.27	0.05	0.005	1.4	0.1	4	0.25
07-ARD-293-013	Tuzo	Granite	Country Rock	70.14	0.26	15.87	2.07	0.03	0.82	2.14	3.97	3.88	0.12	0.09	0.50	99.89	3.2	9.5	2.6	45	0.05	5.7	3.8	173	1.17	0.25	0.3	0.5	9.4	8	0.05	0.05	0.05	16	0.14	0.042	19	47	0.44	57	0.098	10	0.51	0.028	0.33	0.05	0.005	1.8	0.2	4	0.25
07-ARD-293-014	Tuzo	Granite	Country Rock	70.21	0.25	15.50	1.80	0.02	0.71	2.02	3.68	4.46	0.13	0.13	0.55	99.46	5.3	23.5	3.3	41	0.05	10.5	4.2	160	1.12	0.25	0.3	0.7	7.4	14	0.05	0.05	0.05	14	0.23	0.048	17	78	0.4	66	0.104	10	0.55	0.043	0.36	0.1	0.005	1.9	0.2	4	0.25
07-ARD-293-015	Tuzo	Granite	Country Rock	69.70	0.21	16.17	1.84	0.02	0.63	2.48	4.41	3.28	0.09	0.08	0.70	99.61	4.7	56	3.1	36	0.05	6.7	4.6	147	1.12	0.25	0.3	0.25	3.8	13	0.05	0.05	0.05	11	0.32	0.037	13	61	0.35	39	0.087	10	0.5	0.039	0.25	0.1	0.005	1.5	0.1	3	0.25
07-ARD-293-016	Tuzo	Granite	Country Rock	70.99	0.21	15.15	1.76	0.02	0.77	2.01	3.67	4.34	0.12	0.12	0.57	99.73	6.1	42.5	4	38	0.05	5.5	5.5	158	1.14	0.25	0.3	0.6	6.3	14	0.05	0.05	0.05	10	0.26	0.049	17	88	0.34	47	0.089	10	0.52	0.045	0.28	0.05	0.005	1.8	0.2	3	0.25
07-ARD-293-017	Tuzo	Granite	Country Rock	69.98	0.27	15.37	2.02	0.02	1.06	1.72	3.16	5.07	0.11	0.10	0.75	99.63	4.4	7.5	5	46	0.05	7.8	4.4	165	1.3	0.25	0.4	0.6	6.2	8	0.05	0.1	0.05	20	0.12	0.036	23	62	0.59	59	0.098	10	0.7	0.029	0.37	0.05	0.005	2.1	0.2	5	0.25
07-ARD-295-001	Tuzo	Granite	Country Rock	73.88	0.22	13.47	1.60	0.01	0.55	0.80	2.65	5.60	0.04	0.09	0.63	99.54	5.9	2.7	6	25	0.05	7.5	2.8	82	0.94	0.25	1	0.7	21.8	5	0.05	0.05	0.05	12	0.03	0.01	39	86	0.28	34	0.02	10	0.41	0.031	0.16	0.05	0.005	1	0.1	3	0.25
07-ARD-295-002	Tuzo	Granite	Country Rock	72.09	0.24	13.90	1.57	0.01	1.00	0.33	2.32	6.78	0.12	0.10	1.12	99.58	4	4	2.5	17	0.05	8.1	2.9	89	0.98	0.25	0.6	0.25	22.8	4	0.05	0.1	0.05	11	0.15	0.049	41	59	0.5	18	0.003	10	0.6	0.016	0.08	0.05	0.005	0.9	0.05	4	0.25
07-ARD-295-003	Tuzo	Granite	Country Rock	72.97	0.15	12.19	1.78	0.01	2.79	0.27	0.03	6.33	0.04	0.08	2.85	99.49	4.1	1.8	3.6	14	0.05	20.1	2.8	101	1.11	0.25	0.3	0.25	20.5	7	0.05	0.1	0.05	12	0.17	0.014	40	60	1.35	10	0.0005	10	1.13	0.006	0.1	0.05	0.005	0.7	0.05	5	0.25
07-ARD-295-004	Tuzo	Granite	Country Rock	69.82	0.26	15.68	1.46	0.01	0.72	0.74	2.76	7.36	0.09	0.13	0.80	99.83	5	3.3	8.3	35	0.05	4.2	2.3	89	0.82	0.25	1.1	0.25	32.9	7	0.1	0.1	0.1	10	0.12	0.033	46	70	0.36	25	0.021	10	0.44	0.03	0.15	0.05	0.005	1.2	0.05	3	0.25
07-ARD-297-001	Tuzo	Granite	Country Rock	70.25	0.39	14.56	2.86	0.01	1.18	0.96	2.70	5.64	0.17	0.12	0.98	99.82	5.3	4.3	9.6	45	0.05	7	4.6	137	1.61	0.25	0.9	0.25	42	8	0.05	0.05	0.05	20	0.18	0.064	62	80	0.6	43	0.055	10	0.7	0.033	0.24	0.05	0.005	1.7	0.1	5	0.25
07-ARD-299-001	Tuzo	Granite	Country Rock	72.36	0.34	13.78	2.21	0.01	1.10	0.30	2.53	5.80	0.13	0.10	1.06	99.72	5	5.6	5.1	18	0.05	7	3.9	94	1.32	0.25	0.7	0.25	45	5	0.05	0.05	0.05	14	0.1	0.052	74	74	0.58	23	0.002	10	0.72	0.021	0.09	0.05	0.01	1	0.05	5	0.25
07-ARD-299-002	Tuzo	Granite	Country Rock	71.79	0.37	13.84	2.30	0.01	1.18	0.26	2.35	6.14	0.13	0.09	1.11	99.57	5.2	2.4	2.9	17	0.05	7	3.6	110	1.34	0.25	0.7	0.7	52.4	5	0.05	0.05	0.05	15	0.11	0.057	82	75	0.64	29	0.002	10	0.76	0.021	0.12	0.05	0.005	1.1	0.05	5	0.25
07-ARD-299-003	Tuzo	Granite	Country Rock	70.02	0.22	15.16	1.60	0.02	1.27	1.08	2.60	6.51	0.07	0.16	0.90	99.61	48.4	11.4	7.8	30	0.05	8.3	4.5	137	1.05	0.8	2.6	0.25	33.9	19	0.05	0.05	0.05	18	0.1	0.019	57	65	0.76	76	0.073	10	0.7	0.033	0.34	0.1	0.005	2	0.2	4	0.25
07-ARD-300-001	Tuzo	Granite	Country Rock	71.44	0.35	14.20	2.59	0.02	0.63	1.59	3.56	4.43	0.14	0.07	0.49	99.51	5.7	5.1	12.9	53	0.05	5.4	4.3	131	1.6	0.25	1	1.5	37.1	4	0.05	0.05	0.05	18	0.22	0.038	55	92	0.36	38	0.139	10	0.62	0.027	0.32	0.1	0.005	2.8	0.2	5	0.25
07-ARD-300-002	Tuzo	Granite	Country Rock	72.48	0.29	13.91	2.04	0.02	0.59	1.14	3.11	5.04	0.06	0.07	0.61	99.36	7.7	4	9.9	35	0.05	4.1	3.4	115	1.29	0.25	2.5	1.3	39.4	5	0.05	0.1	0.05	14	0.08	0.013	68	119	0.36	36	0.064	10	0.59	0.035	0.3	0.05	0.005	1.9	0.1	4	0.25
07-ARD-300-003	Tuzo	Granite	Country Rock	72.65	0.24	14.12	1.93	0.01	0.49	1.25	3.39	5.04	0.05	0.08	0.48	99.73	5.2	1.4	11.7	35	0.05	3.5	3	96	1.2	0.25	0.8	0.25	30	5	0.05	0.05	0.05	14	0.12	0.012	49	78	0.29	28	0.097	10	0.46	0.022	0.2	0.05	0.005	2	0.1	4	0.25
07-ARD-300-004	Tuzo	Granite	Country Rock	70.59	0.31	14.37	2.64	0.02	0.78	1.09	3.10	5.53	0.12	0.09	0.99	99.63	5.1	2.2	8.2	41	0.05	4.8	4.2	136	1.65	0.25	1	1	39.6	7	0.05	0.05	0.05	20	0.3	0.047	65	84	0.46	28	0.056	10	0.61	0.027	0.19	0.05	0.005	1.8	0.1	5	0.25
07-ARD-300-005	Tuzo	Granite	Country Rock	71.81	0.27	14.24	2.07	0.01	0.48	1.25	2.99	5.69	0.13	0.10	0.42	99.46	5.9	2.8	9.8	37	0.05	3.8	3.4	168	1.37	0.25	0.8	0.9	34.6	5	0.05	0.05	0.05	18	0.14	0.039	54	88	0.3	42	0.099	10	0.51	0.024	0.3	0.05	0.005	2	0.1	4	0.25
07-ARD-300-006	Tuzo	Granite	Country Rock	71.14	0.32	14.19	2.38	0.01	1.21	0.82	2.98	5.14	0.17	0.09	1.02	99.47	5.1	12	4	26	0.05	4.3	4.8	120	1.44	0.25	1	1.6	45.3	5	0.05	0.05	0.05	17	0.17	0.067	83	78	0.62	21	0.018	10	0.73	0.022	0.14	0.05	0.005	1.1	0.05	5	0.25
07-ARD-300-007	Tuzo	Granite	Country Rock	73.58	0.21	13.64	1.61	0.01	0.89	0.55	3.26	5.23	0.04	0.08	0.88	99.97	5.2	1.4	3.5	17	0.05	3.4	2.4	75	0.99	0.25	0.9	0.7	35.6	4	0.05	0.05	0.05	10	0.04	0.016	58	85	0.51	23	0.018	10	0.62	0.026	0.15	0.05	0.005	0.9	0.1	4	0.25
07-ARD-300-008	Tuzo	Granite	Country Rock	73.48	0.20	13.84	1.48	0.02	0.58	1.05	3.11	5.31	0.04	0.10	0.66	99.87	4.8	1.4	8	24	0.05	2.9	2.8	90	0.88	0.25	0.9	0.25	40.1	5	0.05	0.05	0.05	14	0.07	0.012	63	70	0.31	31	0.034	10	0.45	0.019	0.18	0.05	0.005	0.9	0.1	3	0.25
07-ARD-300-009	Tuzo	Granite	Country Rock	71.32	0.34	14.07	2.51	0.02	0.81	1.07	2.94	5.42	0.15	0.12	0.88	99.65	5.1	4.1	8.6	37	0.05	4.3	4.1	140	1.48	0.25	1	0.7	45.7	8	0.05	0.05	0.05	18	0.2	0.047	64	72	0.46	37	0.047	10	0.6	0.021	0.19	0.05	0.005	1.4	0.1	4	0.25
07-ARD-300-010	Tuzo	Granite	Country Rock	70.42	0.34	14.11	2.56	0.02	1.06	0.56	2.37	6.62	0.12	0.14	1.04	99.36	6.9	5	8.4	39	0.05	5.7	4.6	164	1.61	0.25	1.2	1	79.8	8	0.05	0.05	0.05	21	0.14	0.048	85	106	0.61	44	0.019	10	0.73	0.029	0.2	0.05	0.005	1.2	0.1	6	0.25
07-ARD-300-011	Tuzo	Granite	Country Rock	70.17	0.38	14.31	2.52	0.02	0.88	0.95	3.05	5.81	0.13	0.14	1.03	99.39	4.2	4.6	11.5	43	0.05	3.3	4.9	162	1.6	0.25	0.9	0.25	57.1	7	0.05	0.05	0.05	20	0.33	0.05	84	65	0.51	36	0.05	10	0.65	0.02	0.17	0.05	0.005	1.6	0.1	5	0.25
07-ARD-300-012	Tuzo	Granite	Country Rock	68.99	0.50	14.72	3.47	0.03	0.92	1.51	3.42	4.71	0.19	0.13	1.05	99.64	5.5	6.8	6.8	71	0.05	7	6.4	235	2.04	0.25	0.8	0.6	30.3	9	0.05	0.05	0.05	30	0.44	0.081	82	88	0.55	52	0.11	10	0.77	0.032	0.24	0.05	0.005	3.3	0.1	6	0.25
07-ARD-300-013	Tuzo	Granite	Country Rock	68.53	0.43	14.72	2.74	0.02	1.49	1.18	3.11	5.39	0.21	0.12	1.17	99.11	6.4	5.3	5	60	0.05	6.2	5.7	235	1.83	0.25	0.7	0.25	24.6	9	0.05	0.05	0.05	31	0.33	0.082	69	100	0.89	63	0.078	10	0.95	0.038	0.41	0.05	0.005	2.6	0.2	7	0.25
07-ARD-300-014	Tuzo	Granite	Country Rock	70.10	0.24	15.48	2.01	0.01	0.82	1.73	4.14	3.82	0.20	0.08	0.86	99.49	6.2	7	1.9	43	0.05	5.7	4.3	170	1.24	0.25	0.4	0.25	4.9	9	0.05	0.05	0.05	17	0.2	0.041	21	95	0.49	26	0.056	10	0.62	0.042	0.17	0.05	0.005	1.3	0.1	4	0.25
07-ARD-300-015	Tuzo	Granite	Country Rock	70.36	0.27	15.49	2.02	0.03	0.70	2.47	4.25	3.19	0.09	0.08	0.53	99.48	5.2	16.1	2.1	51	0.05	5.1	5.2	183	1.27	0.25	0.2	0.6	3	15	0.05	0.05	0.05	21	0.22	0.035	18	80	0.43	61	0.107	10	0.56	0.038	0.32	0.05	0.005	1.5	0.1	4	0.25
07-ARD-300-016	Tuzo	Granite	Country Rock	70.23	0.25	15.47	1.87	0.02	0.80	2.12	3.61	4.38	0.08	0.11	0.71	99.65	5.4	7	2	42	0.05	5.5	4	161	1.2	0.25	0.5	0.25	8.7	16	0.05	0.05	0.05	18	0.21	0.035	23	86	0.49	63	0.088	10	0.57	0.047	0.36	0.05	0.005	1.6	0.1	4	0.25
07-ARD-304-001	Tuzo	Granite	Country Rock	68.69	0.36	15.61	2.79	0.02	1.30	1.43	3.72	4.24	0.13	0.11	1.07	99.47	4.6	11.4	2.6	56	0.05	5.9	5.4	219	1.7	0.25	0.9	0.8	12.9	9	0.05	0.05	0.05	29	0.14	0.058	42	75	0.77	45	0.041	10	0.81	0.03	0.23	0.05	0.005	1.2	0.1	6	0.25
07-ARD-304-002	Tuzo	Granite	Country Rock	69.07	0.29	15.97	2.29	0.02	0.95	2.15	4.12	3.45	0.10	0.09	0.82	99.32	4.4	10	2.6	54	0.05	6.5	4.6	197	1.39	0.25	0.3	0.25	9.8	11	0.05	0.05	0.05	21	0.13	0.043	30	71	0.53	63	0.067	10	0.67	0.032	0.31	0.05	0.005	1.4	0.1	5	0.25
07-ARD-304-003	Tuzo	Granite	Country Rock	72.30	0.26	13.87	2.23	0.02	0.62	1.26	3.38	4.57	0.09	0.14	0.69	99.43	6.9	11.1	8.5	40	0.05	4	3.8	183	1.41	0.25	1	1.3	41.3	16	0.05	0.05	0.05	19	0.14	0.038	74	98	0.37	50	0.041	10	0.5	0.035	0.19	0.2	0.005	0.9	0.1	4	0.25
07-ARD-304-004	Tuzo	Granite	Country Rock	71.48	0.22	14.98	1.93	0.02	0.54	2.02	4.01	3.58	0.07	0.10	0.43	99.38	6.8	5	4.9	43	0.05	4.5	3.7	171	1.25	0.25	0.7	0.6	15.3	16	0.05	0.1	0.05	18	0.13	0.032	38	109	0.35	60	0.082	10	0.5	0.05	0.27	0.05	0.005	1.2	0.1	4	0.25
07-ARD-304-005	Tuzo	Granite	Country Rock	70.37	0.25	15.69	2.06	0.02	0.83	2.16	4.35	3.28	0.09	0.08	0.61	99.79	4.9	20.4	3.4	46	0.05	6	4.7	204	1.29	0.25	0.4	0.25	13.7	10	0.05	0.05	0.05	17	0.11	0.038	24	73	0.46	56	0.081	10	0.64	0.036	0.34	0.05	0.005	1.4	0.1	4	0.25
07-ARD-304-006	Tuzo	Granite	Country Rock	70.50	0.25	15.65	2.14	0.02	0.64	2.50	4.45	2.94	0.10	0.07	0.50	99.76	6.4	8.7	3.1	50	0.05	6	4.3	205	1.37	0.25	0.3	0.25	5.3	14	0.05	0.1	0.05	20	0.24	0.042	14	101	0.41	53	0.108	10	0.58	0.051	0.29	0.05	0.005	1.6	0.1	4	0.25
07-ARD-304-007	Tuzo	Granite	Country Rock	68.86	0.28	15.66	2.48	0.03	1.56	1.61	3.90	3.82	0.12	0.08	1.18	99.58	5.4	11.5	2.3	56	0.05	8.2	5.3	230	1.54	0.25	0.3	0.6	8	10	0.05	0.05	0.05	20	0.13	0.041	22	92	0.92	39	0.047	10	0.9	0.039	0.24	0.05	0.005	1.2	0.1	6	0.25

Whole Rock and Bulk Metal Analysis

Sample ID	Pit	Lithology		SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P205	Ba(F)	LOI	Total	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	Ga	Se
				%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	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
07-ARD-304-008	Tuzo	Granite	Country Rock	69.59	0.28	15.79	2.26	0.02	0.99	2.14	4.18	3.45	0.11	0.08	0.69	99.58	5.3	14	2.3	46	0.05	7.1	5	195	1.42	0.25	0.3	0.25	9.5	11	0.05	0.05	0.05	20	0.13	0.045	22	89	0.52	52	0.07	10	0.67	0.042	0.29	0.05	0.005	1.3	0.1	5	0.25
07-ARD-304-009	Tuzo	Granite	Country Rock	70.15	0.30	15.29	2.57	0.02	0.77	2.39	4.24	2.93	0.13	0.06	0.72	99.57	5.8	5.6	1.2	49	0.05	4.7	4.6	199	1.67	0.25	0.2	0.25	2.6	12	0.05	0.05	0.05	26	0.19	0.056	9	97	0.48	57	0.091	10	0.64	0.05	0.34	0.05	0.005	1.7	0.1	5	0.25
07-ARD-304-010	Tuzo	Granite	Country Rock	70.72	0.24	15.50	1.90	0.01	0.71	2.09	3.91	3.98	0.09	0.11	0.53	99.79	5.7	7.1	2.4	44	0.05	5.9	4	166	1.19	0.25	0.5	0.25	8	12	0.05	0.05	0.05	17	0.1	0.033	22	92	0.42	74	0.073	10	0.6	0.041	0.38	0.1	0.005	1.3	0.1	4	0.25
07-ARD-304-011	Tuzo	Granite	Country Rock	68.79	0.29	16.15	2.35	0.03	0.90	2.35	4.34	3.38	0.11	0.11	0.67	99.47	4.9	5	3.2	51	0.05	6.9	4.9	210	1.41	0.25	0.3	0.25	9.2	14	0.05	0.05	0.05	20	0.22	0.048	38	80	0.52	79	0.105	10	0.64	0.043	0.31	0.05	0.005	1.6	0.1	5	0.25
07-ARD-304-012	Tuzo	Granite	Country Rock	66.45	0.37	17.05	3.14	0.03	1.29	2.49	4.72	2.93	0.16	0.08	1.05	99.76	5.5	14.7	3.5	56	0.05	10.7	6.9	253	1.82	0.25	0.4	0.5	12.3	24	0.05	0.05	0.05	30	0.29	0.067	54	88	0.71	64	0.088	10	0.83	0.054	0.26	0.05	0.005	1.6	0.1	5	0.25
07-ARD-306-001	Tuzo	Granite	Country Rock	66.29	0.37	17.00	3.11	0.03	1.25	2.49	4.64	2.95	0.17	0.08	1.24	99.62	5.1	13.4	2.4	38	0.05	6.9	6.6	178	1.6	0.25	0.5	0.5	21.7	9	0.05	0.05	0.05	23	0.18	0.088	63	81	1.03	33	0.006	10	0.95	0.033	0.11	0.05	0.005	1	0.05	7	0.25
07-ARD-306-002	Tuzo	Granite	Country Rock	68.98	0.48	15.02	2.50	0.02	1.72	0.53	3.45	5.66	0.22	0.16	1.13	99.87	5.2	4.9	0.7	34	0.05	6.8	4.4	165	1.4	0.25	0.2	0.25	2.5	7	0.05	0.05	0.05	18	0.1	0.047	16	85	0.8	26	0.015	10	0.84	0.046	0.15	0.05	0.005	0.8	0.05	6	0.25
07-ARD-306-003	Tuzo	Granite	Country Rock	70.28	0.27	15.40	1.91	0.01	1.32	0.88	3.96	4.47	0.09	0.07	1.17	99.83	4.1	3	1	27	0.05	7.6	4.3	120	1.14	0.25	0.2	0.25	5.4	6	0.05	0.05	0.05	16	0.08	0.037	23	68	0.74	18	0.006	10	0.76	0.033	0.13	0.3	0.005	0.7	0.05	5	0.25
07-ARD-306-004	Tuzo	Granite	Country Rock	70.15	0.27	15.61	2.14	0.01	1.28	1.04	4.30	3.76	0.10	0.07	1.14	99.87	5.3	0.7	1.4	31	0.05	6.4	4.2	138	1.2	0.25	0.2	0.6	7.1	7	0.05	0.05	0.05	15	0.09	0.039	31	88	0.71	22	0.006	10	0.77	0.044	0.13	0.05	0.005	0.6	0.05	5	0.25
07-ARD-306-005	Tuzo	Granite	Country Rock	69.81	0.27	15.68	2.23	0.02	0.81	2.45	4.34	3.22	0.10	0.08	0.56	99.57	7.2	8.9	2.1	50	0.05	6.7	4.6	186	1.45	0.25	0.2	0.25	5.1	16	0.05	0.05	0.05	23	0.23	0.041	22	111	0.51	75	0.119	10	0.67	0.064	0.39	0.05	0.005	1.8	0.1	4	0.25
07-ARD-306-006	Tuzo	Granite	Country Rock	69.19	0.24	15.83	2.37	0.02	1.05	1.88	3.84	4.26	0.17	0.09	0.83	99.77	6.2	6.1	1.4	48	0.05	6.1	4.3	201	1.49	0.25	0.1	0.8	3.4	12	0.05	0.05	0.05	22	0.21	0.058	16	97	0.61	46	0.063	10	0.71	0.046	0.26	0.05	0.005	1.3	0.2	5	0.25
07-ARD-306-007	Tuzo	Granite	Country Rock	69.38	0.27	15.07	2.44	0.01	2.30	0.32	4.26	3.83	0.12	0.05	1.61	99.66	5.6	1.3	0.7	19	0.05	11.7	4.4	106	1.39	0.25	0.2	0.7	7.6	6	0.05	0.05	0.05	19	0.1	0.047	22	88	1.28	19	0.003	10	1.07	0.054	0.14	0.05	0.005	0.7	0.05	7	0.25
07-ARD-306-008	Tuzo	Granite	Country Rock	71.24	0.18	15.21	1.74	0.02	0.87	1.82	4.00	3.85	0.07	0.10	0.66	99.76	5.7	7.3	3.5	34	0.05	4.6	3.3	132	1.11	0.9	0.1	0.25	2.6	12	0.05	0.05	0.05	14	0.18	0.027	10	88	0.38	37	0.061	1	0.52	0.041	0.18	0.1	0.005	1.1	0.1	3	0.25
07-ARD-306-009	Tuzo	Granite	Country Rock	70.53	0.19	15.00	1.56	0.01	1.05	0.51	2.89	6.52	0.14	0.12	1.03	99.55	4.4	5	0.9	16	0.05	4.6	2.7	98	0.9	0.9	0.3	0.5	4.1	7	0.05	0.05	0.05	8	0.11	0.039	16	71	0.56	23	0.007	0.5	0.58	0.024	0.13	0.05	0.005	0.7	0.05	4	0.25
07-ARD-306-010	Tuzo	Granite	Country Rock	68.85	0.37	15.64	3.77	0.02	0.66	2.03	4.06	3.30	0.08	0.04	0.85	99.67	6.5	3.3	10.2	45	0.05	5.3	4	160	1.98	0.9	0.9	0.25	43.4	9	0.05	0.05	0.05	28	0.09	0.026	75	102	0.34	30	0.019	8	0.55	0.047	0.18	0.05	0.005	0.9	0.05	5	0.25
07-ARD-307-001	Tuzo	Granite	Country Rock	71.77	0.31	14.05	2.43	0.01	0.55	1.48	3.39	4.68	0.08	0.08	0.62	99.45	6.7	2.3	14.7	43	0.05	4.1	3.6	137	1.54	1	0.9	1	40.7	7	0.05	0.05	0.05	18	0.26	0.033	60	95	0.33	36	0.111	3	0.59	0.038	0.25	0.1	0.005	2	0.1	4	0.25
07-ARD-307-002	Tuzo	Granite	Country Rock	75.06	0.17	13.00	1.26	0.01	0.62	1.02	3.15	4.37	0.03	0.08	0.73	99.50	5.7	1.3	5.8	20	0.05	2.9	1.9	77	0.76	0.8	0.7	0.7	22.6	7	0.05	0.05	0.05	8	0.14	0.012	33	81	0.25	18	0.03	0.5	0.38	0.026	0.1	0.05	0.005	0.9	0.05	3	0.25
07-ARD-307-003	Tuzo	Granite	Country Rock	70.68	0.40	14.15	2.79	0.03	0.62	1.63	3.31	4.86	0.16	0.09	0.72	99.44	4.5	4.9	15.3	52	0.05	5.2	4.9	177	1.75	1	0.8	0.7	46.7	7	0.05	0.05	0.05	22	0.43	0.064	61	66	0.38	36	0.123	0.5	0.64	0.022	0.24	0.05	0.005	2.7	0.1	5	0.25
07-ARD-307-004	Tuzo	Granite	Country Rock	70.91	0.35	14.23	2.66	0.02	0.67	1.50	3.17	5.01	0.13	0.11	0.68	99.44	6.4	4.9	17.1	47	0.05	4.9	4.6	145	1.64	1	0.8	0.25	45.6	9	0.05	0.05	0.05	20	0.34	0.052	67	93	0.37	50	0.115	0.5	0.65	0.037	0.28	0.05	0.005	2	0.1	5	0.25
07-ARD-307-005	Tuzo	Granite	Country Rock	69.74	0.42	14.54	3.16	0.03	0.85	1.67	3.15	5.01	0.19	0.12	0.88	99.76	4.7	6.7	9	42	0.05	5.1	4.9	167	1.86	1.1	0.7	1	46.7	9	0.05	0.05	0.05	25	0.39	0.067	65	69	0.48	54	0.119	0.5	0.72	0.026	0.27	0.1	0.005	2.3	0.1	5	0.25
07-ARD-307-006	Tuzo	Granite	Country Rock	70.47	0.41	14.27	2.80	0.03	0.69	1.69	3.22	4.98	0.16	0.11	0.79	99.62	5.6	6	16	55	0.05	5.2	4.9	136	1.68	0.9	0.7	0.6	41.8	9	0.05	0.05	0.05	23	0.42	0.063	61	78	0.4	44	0.123	0.5	0.66	0.03	0.26	0.05	0.005	2.5	0.1	5	0.25
07-ARD-307-007	Tuzo	Granite	Country Rock	70.69	0.39	14.54	2.66	0.02	0.66	1.56	3.13	5.25	0.22	0.13	0.74	99.99	6.1	4.2	8.8	52	0.9	4.7	4.1	143	1.62	0.9	1.1	0.25	20.4	9	0.05	0.05	0.05	21	0.39	0.057	43	88	0.37	47	0.114	0.5	0.61	0.032	0.23	0.05	0.005	2.5	0.1	5	0.25
07-ARD-307-008	Tuzo	Granite	Country Rock	68.93	0.49	14.62	3.39	0.03	0.81	1.85	3.46	4.84	0.20	0.13	0.87	99.62	5.7	5.8	9.5	65	0.05	6.3	6	158	2.04	0.9	0.6	0.25	23.5	11	0.05	0.05	0.05	31	0.5	0.073	75	86	0.48	66	0.138	0.5	0.75	0.033	0.31	0.05	0.005	3.5	0.2	6	0.25
07-ARD-307-009	Tuzo	Granite	Country Rock	67.17	0.43	16.51	2.50	0.03	1.03	2.41	4.57	3.70	0.23	0.08	0.79	99.45	4.6	4.5	3.5	59	0.05	5.8	5.6	206	1.61	1	0.4	0.25	11.9	13	0.05	0.05	0.05	20	0.41	0.099	54	86	0.6	79	0.158	0.5	0.79	0.046	0.49	0.05	0.005	3.3	0.2	5	0.25
07-ARD-307-010	Tuzo	Granite	Country Rock	68.55	0.27	16.23	2.06	0.02	1.18	1.85	4.84	3.26	0.15	0.08	1.14	99.63	4.1	39.4	1.6	42	0.05	7	6.5	172	1.29	1.1	0.3	0.25	2.7	11	0.05	0.05	0.05	16	0.31	0.065	16	62	0.66	27	0.06	4	0.68	0.035	0.18	0.05	0.005	1.3	0.1	5	0.25
07-ARD-307-011	Tuzo	Granite	Country Rock	70.27	0.28	15.63	2.11	0.02	0.63	2.73	4.64	2.62	0.09	0.08	0.43	99.53	4.5	3.4	2.5	50	0.05	6	4.5	177	1.31	0.9	0.2	0.25	5.4	11	0.05	0.05	0.05	21	0.24	0.037	19	69	0.38	55	0.112	0.5	0.52	0.035	0.29	0.05	0.005	1.7	0.1	4	0.25
07-ARD-307-012	Tuzo	Granite	Country Rock	70.08	0.25	15.49	2.07	0.02	0.90	1.54	4.89	3.47	0.08	0.09	1.11	99.99	7.6	2.4	1.8	34	0.05	6.7	3.7	150	1.23	0.9	0.4	0.25	8.6	14	0.05	0.05	0.05	18	0.28	0.037	29	116	0.5	26	0.041	6	0.62	0.053	0.13	0.05	0.005	1.1	0.05	4	0.25
07-ARD-307-013	Tuzo	Granite	Country Rock	68.12	0.30	15.35	2.86	0.02	2.58	1.46	4.09	2.94	0.13	0.07	1.62	99.54	5.3	1	2.5	47	0.05	29.2	8.5	204	1.63	1	1.8	0.25	12.4	10	0.05	0.05	0.05	36	0.22	0.057	30	90	1.46	59	0.048	0.5	1.08	0.038	0.24	0.1	0.005	1.6	0.1	6	0.25
07-ARD-307-015	Tuzo	Granite	Country Rock	70.36	0.23	15.47	1.96	0.02	0.71	2.36	4.26	3.44	0.15	0.08	0.62	99.66	4.3	7.6	3	39	0.05	5.5	3.7	152	1.21	0.9	0.2	0.25	5	14	0.05	0.05	0.05	19	0.24	0.031	21	67	0.37	44	0.096	0.5	0.49	0.032	0.26	0.05	0.005	1.5	0.1	4	0.25
07-ARD-307-016	Tuzo	Granite	Country Rock	70.29	0.26	15.51	2.05	0.02	0.76	2.25	3.93	3.77	0.09	0.08	0.60	99.61	5.1	16.7	2.3	42	0.05	6.6	4.4	165	1.34	1	0.2	0.25	6.2	14	0.05	0.05	0.05	20	0.17	0.035	22	79	0.45	60	0.107	11	0.6	0.042	0.36	0.05	0.005	1.6	0.2	4	0.25
07-ARD-307-017	Tuzo	Granite	Country Rock	48.02	0.26	15.99	4.40	0.11	7.02	3.87	0.24	9.10	0.18	0.06	9.34	98.59	0.7	171	3.7	45	0.05	77.9	14.8	863	2.84	1.3	0.4	0.25	9.8	41	0.05	0.05	0.05	31	2.64	0.059	44	29	4.15	25	0.009	0.5	1.87	0.017	0.31	0.1	0.005	1.9	0.05	15	0.25
07-ARD-307-018	Tuzo	Granite	Country Rock	68.82	0.24	15.34	2.22	0.01	2.15	0.46	3.20	5.15	0.15	0.08	1.64	99.46	3.7	5.6	2.5	24	0.05	15.9	4.9	151	1.37	1	0.5	0.5	7.6	8	0.05	0.05	0.05	17	0.09	0.038	30	59	1.2	23	0.014	4	1.07	0.025	0.17	0.1	0.005	0.7	0.05	7	0.25
07-ARD-308-001	Tuzo	Granite	Country Rock	57.89	0.57	15.09	6.79	0.12	4.93	6.10	3.16	2.88	0.28	0.07	1.47	99.35	3.9	5.4	1.8	55	0.05	16.8	10.3	360	2.11	1	0.6	0.7	3.3	78	0.1	0.05	0.2	49	1.13	0.111	35	97	1.31	75	0.154	1	1.11	0.087	0.33	0.1	0.005	3.9	0.1	5	0.25
07-ARD-308-002	Tuzo	Granite	Country Rock	70.29	0.24	15.55	2.15	0.02	0.75	1.98	4.08	3.74	0.12	0.09	0.65	99.66	4.3	9.9	2.1	40	0.05	5.2	3.8	171	1.31	1	0.3	0.25	7.3	10	0.05	0.05	0.05	19	0.15	0.056	19	65	0.43	42	0.058	0.5	0.54	0.029	0.24	0.05	0.005	1.2	0.1	4	0.25
07-ARD-308-003	Tuzo	Granite	Country Rock	70.23	0.28	15.54	2.23	0.03	0.72	2.22	4.12	3.42	0.09	0.06	0.71	99.65	5.8	9.9	1.9	41	0.05	5.6	3.9	185	1.32	0.9	1	0.5	2.2	10	0.05	0.05	0.05	15	0.22	0.033	9	79	0.42	37	0.083	3	0.57	0.035	0.24	0.05	0.005	1.7	0.1	4	0.25
07-ARD-308-004	Tuzo	Granite	Country Rock	70.04	0.27	15.55	1.99	0.02	0.60	2.41	4.05	3.72	0.11	0.08	0.54	99.38	3.7	8.5	4.4	40	0.05	5.2	4.3	153	1.2	1	0.5	0.25	8.1	7	0.05	0.1	0.05	15	0.28	0.034	21	53	0.36	34	0.108	0.5	0.53	0.025	0.23	0.05	0.005	1.9	0.1	4	0.25
07-ARD-308-005	Tuzo	Granite	Country Rock	68.40	0.54	14.91	3.72	0.04	0.99	1.81	3.44	4.55	0.26	0.13	0.87	99.66	5.8	6	6.7	64	0.05	7.7	6.9	278	2.27	1.1	0.9	0.7	25	9	0.05	0.05	0.05	35	0.4	0.08	76	89	0.57	81	0.124	2	0.78	0.039	0.37	0.05	0.005	2.9	0.2	7	0.25
07-ARD-308-006	Tuzo	Granite	Country Rock	69.12	0.56	14.69	2.93	0.03	1.08	1.50	3.29	4.88	0.20	0.13	0.86	99.27	7.6	5.5	4.5	55	0.05	6.6	5.9	216	1.56	0.9	0.7	0.5	19.1	9	0.05	0.05	0.05	28	0.28	0.076	64	56	0.58	64	0.094	7	0.7	0.02	0.35	0.05	0.005	2.2	0.2	5	0.25
07-ARD-308-007	Tuzo	Granite	Country Rock	68.96	0.56	14.76	3.09	0.03	1.50	1.24	3.33	4.75	0.22	0.14	1.00	99.58	6	12.7	3.9	52	0.05	7.8	6	229	1.78	1.1	0.7	0.7	21.7	12	0.05	0.05	0.05	28	0.2	0.081	84	92	0.73	90	0.07	6	0.93	0.043	0.4	0.05	0.005	2	0.2	6	0.25
07-ARD-308-008	Tuzo	Granite	Country Rock	68.71	0.46	14.83	3.64	0.03	1.08	1.86	3.40	4.54	0.22	0.14	0.69	99.60	5.7	3.9	6.1	71	0.05	7.5	6.2	266	2.31	1	0.8	0.25	25.3	17	0.05	0.05	0.05	34	0.3	0.089	91	91	0.64	118	0.122	3	0.85	0.041	0.58	0.05	0.005	2.7	0.3	6	0.25
07-ARD-308-009	Tuzo	Granite	Country Rock	69.19	0.24	15.66	2.24	0.03	1.07	1.37	3.59	4.87	0.19	0.12	1.03	99.60	5.8	12.1	2.4	40	0.05	6.7	4.8	205	1.38	1.2	0.3	0.25	7.9	15	0.05	0.05	0.05	18	0.25	0.074	29	88	0.62	46	0.028	11	0.67	0.044	0.21	0.1	0.005	1.1	0.1	5	0.25
07-ARD-308-010	Tuzo	Granite	Country Rock	69.02	0.47	15.26	3.47	0.03	0.90	2.03	3.70	4.01	0.20	0.11	0.52	99.72	5.1	6.8	6.3	64	0.05	7.3	5.8	242	2.19	1.1	0.9	0.25	29.7	11	0.05	0.05	0.05	34	0.17	0.067	72	80	0.53	93	0.114	5	0.75	0.039	0.49	0.05	0.005	2.5	0.3	6	0.25
07-ARD-308-011	Tuzo	Granite	Country Rock	69.61	0.29	15.87	2.35	0.03	0.67	2.60	4.26	3.27	0.12	0.09	0.39	99.55	4.8	15.3	3.5	55	0.05	6.1	4.6	210	1.54	1.1	0.5	0.25	8.6	12	0.05	0.05	0.05	23	0.23	0.046	29	72	0.43	75	0.127	2	0.6	0.044	0.4	0.05	0.005	2	0.2	4	0.25
07-ARD-308-012	Tuzo	Granite	Country Rock	72.89	0.20	14.00	1.15	0.01	0.44	1.24	3.08	5.63	0.04	0.10	0.49	99.27	5.7	11.1	10.7	25	0.05	3.2	2.5	108	0.72	0.9	1.1	0.9	38.1	9	0.05	0.05	0.05	7	0.14	0.018	61	83	0.28	30	0.056	5	0.4	0.032	0.2	0.05	0.005	1	0.1	2	0.25
07-ARD-308-013	Tuzo	Granite	Country Rock	70.01	0.24	15.70	2.27	0.02	0.73	2.37	3.97	3.50	0.10	0.09	0.54	99.54	5.2	18	3.7	49	0.05	6.4	4.4	199	1.43	1	0.3	1	6.8	12	0.05	0.3	0.05	17	0.18	0.043	20	79	0.43	70	0.097	8	0.61	0.041	0.35	0.1	0.005	1.5	0.2	4	0.25
07-ARD-308-014	Tuzo	Granite	Country Rock	70.04	0.49	14.47	3.43	0.03	0.91	1.71	3.37	4.23	0.22	0.13	0.63	99.66	5.9	3.2	5	61	0.05	6.2	6	216	2	1.1	0.6	0.9	20.4	13	0.05	0.1	0.05	32	0.26	0.076	55	84	0.52	76	0.101	5	0.66	0.035	0.33	0.05	0.005	2.1	0.2	5	0.25
07-ARD-308-015	Tuzo	Granite	Country Rock	67.95	0.36	16.37	3.11	0.03	0.99	2.37	4.25	3.32	0.15	0.08	0.82	99.80	5.2	9.9	2.7	54	0.05	7.6	6.1	236	1.76	0.7	0.4	0.8	11.7	22	0.05	0.05	0.05	28	0.27	0.062	39	79	0.57	59	0.076	2	0.66	0.043	0.27	0.05	0.005	1.5	0.1	5	0.25
07-ARD-308-016	Tuzo	Granite	Country Rock	69.04	0.28	16.03	2.37	0.03	1.29	1.59	4.04	3.64	0.12	0.09	1.13	99.65	5.3	14.7	2.6	47	0.05	7.8	5.6	206	1.46	0.5	0.5	0.25	8.8	11	0.05	0.05	0.05	20	0.2	0.051	42	76	0.73	57	0.061	4	0.77	0.049	0.31	0.05	0.005	1.4	0.1	5	0.25
07-ARD-308-017	Tuzo	Granite	Country Rock	68.95	0.36	15.67	2.70	0.02	1.00	1.83	4.03	3.69	0.17	0.12	1.03	99.57	4.9	11.8	4.4	42	0.05	8.4	5.9	200	1.48	0.25	0.6	0.25	25.8	12	0.05	0.05	0.05	20	0.32	0.076	66	72	0.57	31	0.076	4	0.64	0.032	0.14	0.05	0.005	1.5	0.05	5	0.25
07-ARD-308-018	Tuzo	Granite	Country Rock	69.46	0.53	14.67	2.76	0.04	1.38	1.26	3.13	4.88	0.20	0.15	1.09	99.55	5.1	18.6	6.4	50	0.05	8.7	7.6	227	1.74	0.6	0.9	0.25	29.8	12	0.05	0.05	0.05	22	0.26	0.084	109	74	0.77	56	0.063	4	0.84	0.027	0.27	0.05	0.005	1.8	0.1	5	0.25
07-ARD-308-019	Tuzo	Granite	Country Rock	67.92	0.33	16.45	2.70	0.04	1.12	2.75	4.54	2.90	0.14	0.06	0.66	99.61	5.9	1.8	2.3	64	0.05	9.6	6.1	269	1.74	0.25	0.5	0.25	7	21	0.05	0.05	0.05	30	0.25	0.061	39	86	0.68	106	0.157	13	0.83	0.061	0.55	0.05	0.005	2.4	0.2	6	0.25
07-ARD-308-020	Tuzo	Granite	Country Rock	69.45	0.26	15.50	2.20	0.03	0.99	2.25	3.56	4.21	0.12	0.11	0.84	99.52	6	3.6	2.1	48	0.05	9	4.8	236	1.44	0.25	0.5	0.25	6.2	16	0.05	0.05	0.05	22	0.28	0.046	24	86	0.59	86	0.102	15	0.7	0.044	0.44	0.05	0.005	1.7	0.2	5	0.25
07-ARD-308-021	Tuzo	Granite	Country Rock	69.11	0.28	15.90	2.22	0.03	0.91	2.15	3.68	4.48	0.12	0.13	0.67	99.68	4.1	4.7	2.9	52	0.05	8.2	5.1	220	1.42	0.25	0.5	0.25	10.2	15	0.05	0.05	0.05	24	0.17	0.049	41	63	0.56	87	0.098	13	0.68	0.031	0.46	0.05	0.005	1.7	0.2	5	0.25
07-ARD-308-022	Tuzo	Granite	Country Rock	66.55	0.40	17.07	3.16	0.04	1.22	3.03	4.62	2.62	0.18	0.05	0.71	99.65	6	7.5	3.6	69	0.05	10.6	6.7	301	2.04	0.25	0.4	0.25	10.2	29	0.05	0.1	0.05	39	0.33	0.08	49	86	0.75	154	0.197	6	0.98	0.063	0.65	0.05	0.005	2.3	0.2	6	0.25
07-ARD-308-023	Tuzo	Granite	Country Rock	66.55	0.43	15.81	3.56	0.04	1.42	1.83	3.16	5.38	0.32	0.15	0.82	99.47	4.8	10.8	3	81	0.05	10.2	7.1	321	2.24	0.25	0.6	0.25	9.3	20	0.05	0.05	0.05	36	0.31	0.13	42	75	0.82	158	0.167	15	1.11	0.038	0.79	0.05	0.005	2.9	0.3	8	0.25
07-ARD-308-024	Tuzo	Granite	Country Rock	67.80	0.33	16.22	2.76	0.04	1.06	2.71	4.08	3.38	0.24	0.10	0.75	99.47	5.5	2.8	4	56	0.05	7.8	5.6	228	1.72	0.25	0.5	0.25	9.6	25	0.05	0.2	0.05	30	0.32	0.085	36	80	0.62	93	0.126	13	0.73	0.048	0.38	0.05	0.005	2	0.1	5	0.25
07-ARD-308-025	Tuzo	Granite	Country Rock	67.95	0.32	16.34	2.57	0.03	1.11	2.47	3.87	3.82	0.16	0.11	0.80	99.55	6.1	6.3	3.8	54	0.05	9.5	5.6	214	1.56	0.25	0.6	0.25	13.6	26	0.05	0.1	0.05	26	0.23	0.065	49	86	0.63	106	0.111	20	0.77	0.054	0.46	0.05	0.005	1.9	0.2	5	0.25
07-ARD-309-001	Tuzo	Granite	Country Rock	69.86	0.32	15.24	3.09	0.02	0.64	1.59	3.90	4.14	0.11	0.06	0.63	99.60	6.5	29.1	5.4	44	0.05	5.6	3.9	118	1.82	0.25	1.1	0.25	19.8	5	0.05	0.05	0.05	13	0.14	0.044	36	68	0.32	32	0.063	3	0.52	0.034	0.25	0.05	0.005	1.9	0.1	6	0.25
07-ARD-309-002	Tuzo	Granite	Country Rock	72.04	0.31	14.08	2.17	0.01	0.71	0.89	3.02	5.32	0.12	0.08	0.85	99.60	5.7	3.9	6	36	0.05	4.6	4.1	140	1.38	0.25	1.1	0.25	32.4	4	0.05	0.1	0.05	16	0.15	0.053	60	81	0.42	23	0.03	4	0.55	0.028	0.14	0.05	0.005	1.6	0.05	5	0.25
07-ARD-309-003	Tuzo	Granite	Country Rock	69.65	0.31	14.97	2.10	0.02	0.81	0.64	2.78	7.20	0.24	0.10	0.85	99.67	15.6	3.6	4.5	21	0.05	5.5	3.9	115	1.32	0.25	1.4	0.25	29.5	6	0.05	0.05	0.05	15	0.21	0.103	55	96	0.47	30	0.009	3	0.63	0.03	0.18	0.1	0.005	1.4	0.05	5	0.25
07-ARD-309-004	Tuzo	Granite	Country Rock	72.86	0.25	13.62	1.72	0.01	0.97	0.11	2.65	6.16	0.03	0.08	0.90	99.36	5.8	1.5	2	14	0.05	5.4	2.7	81	1.06	0.25	0.8	0.25	31.1	4	0.05	0.05	0.05	12	0.02	0.014	46	88	0.56	28	0.002	3	0.61	0.025	0.12	0.05	0.005	1	0.05	5	0.25
07-ARD-309-005	Tuzo	Granite	Country Rock	72.77	0.21	13.74	1.49	0.01	0.76	0.15	2.73	6.56	0.05	0.08	0.82	99.37	6.6	1.4	9.7	13	0.05	13.8	3.1	76	0.9	0.6	0.6	0.25	28.8	4	0.05	1	0.05	10	0.05	0.022	32	93	0.44	24	0.002	0.5	0.5	0.028	0.12	0.05	0.005	0.8	0.05	4	0.25
07-ARD-309-006	Tuzo	Granite	Country Rock	71.56	0.37	14.10	2.34	0.01	0.74	0.97	2.75	5.82	0.13	0.09	0.71	99.59	8	6.2	8.9	44	0.05	8	4.6	148	1.51	0.25	1.2	0.25	42.8	6	0.05	0.1	0.05	18	0.12	0.051	72	106	0.44	51	0.05	6	0.63	0.034	0.31	0.05	0.005	1.9	0.1	5	0.25
07-ARD-309-007	Tuzo	Granite	Country Rock	72.63	0.25	13.91	1.82	0.01	0.78	0.78	2.74	5.80	0.07	0.09	0.74	99.62	8.8	2.8	8.2	35	0.05	4.9	3.3	114	1.24	0.25	0.8	0.25	39.3	6	0.05	0.05	0.05	16	0.1	0.031	66	117	0.47	45	0.043	7	0.65	0.043	0.3	0.05	0.005	1.6	0.1	4	0.25
07-ARD-309-008	Tuzo	Granite	Country Rock	71.41	0.32	13.93	2.34	0.01	0.88	0.92	2.74	5.94	0.18	0.09	0.80	99.56	6.4	3.1	6.8	42	0.05	8.9	3.9	140	1.45	0.25	0.9	0.25	38.8	7	0.05	0.05	0.05	18	0.15	0.06	61	91	0.51	45	0.047	7	0.66	0.03	0.29	0.05	0.005	1.6	0.1	5	0.25
07-ARD-309-009	Tuzo	Granite	Country Rock	70.89	0.31	14.21	2.32	0.02	0.99	0.95	2.76	5.74	0.14	0.09	0.98	99.40	7.7	3.3	7.5	35	0.05	6.8	3.8	115	1.52	0.25	1.2	0.25	46.4	7	0.05	0.05	0.05	17	0.19	0.056	74	105	0.58	51	0.047	9	0.75	0.044	0.33	0.05	0.005	1.6	0.1	5	0.25
07-ARD-309-010	Tuzo	Granite	Country Rock	73.59	0.23	13.41	1.75	0.01	0.63	1.06	2.80	5.23	0.06	0.08	0.65	99.50	6.2	3.1	8.5	28	0.05	3.8	2.9	95	1.11	0.25	1.4	0.25	38.6	7	0.05	0.1	0.05	13	0.13	0.029	63	90	0.38	35	0.052	9	0.49	0.036	0.25	0.05	0.005	1.5	0.1	4	0.25
07-ARD-309-011	Tuzo	Granite	Country Rock	71.65	0.35	14.03	2.47	0.01	0.93	1.24	3.10	4.56	0.05	0.09	0.83	99.31	5.9	4.7	18.7	43	0.05	6.4	4.7	134	1.49	0.25	1.4	0.25	94.4	10	0.05	0.05	0.05	16	0.11	0.021	147	88	0.53	65	0.074	10	0.7	0.036	0.35	0.05	0.005	1.9	0.2	5	0.25
07-ARD-309-012	Tuzo	Granite	Country Rock	69.74	0.40	14.49	3.02	0.02	1.04	1.25	2.89	5.32	0.17	0.12	1.05	99.51	6.5	5	10.6	44	0.05	5.3	5	153	1.83	0.25	1.1	0.25	54	11	0.05	0.05	0.05	24	0.31	0.07	77	86	0.58	51	0.077	7	0.75	0.034	0.26	0.05	0.005	1.9	0.1	6	0.25
07-ARD-309-013	Tuzo	Granite	Country Rock	72.06	0.30	14.00	2.01	0.01	0.80	1.15	2.64	5.85	0.03	0.11	0.77	99.73	5.7	8.1	11	38	0.05	10.2	4.5	122	1.23	0.25	1	0.25	50	8	0.05	0.05	0.05	23	0.08	0.012	75	84	0.46	61	0.068	9	0.59	0.028	0.36	0.05	0.005	1.6	0.2	4	0.25
06-ARD-276-016	Tuzo	Diabase	Country Rock	49.89	1.56	13.53	14.75	0.20	5.50	9.49	2.23	0.99	0.24	0.02	1.22	99.62	1.4	132.6	2.1	68	0.05	22.1	23.9	267	4.50	0.25	0.2	0.25	0.9	22	0.05	0.1	0.05	135	0.89	0.08	9	21	0.85	16	0.25	15	1.55	0.10	0.10	0.1	0.005	1.6	0.1	7	0.25
06-ARD-276-017	Tuzo	Diabase	Country Rock	49.22	1.71	13.22	15.18	0.21	5.14	9.05	3.63	1.00	0.23	0.02	1.36	99.97	1.4	155.0	2.4	77	0.05	22.3	24.2	290	4.84	0.25	0.1	1.5	0.9	20	0.1	0.2	0.05	145	0.81	0.09	10	16	0.85	16	0.23	13	1.48	0.07	0.09	0.1	0.005	1.7	0.1	7	0.25
06-ARD-276-018	Tuzo	Diabase	Country Rock	49.81	1.77	13.15	15.85	0.22	5.32	9.67	2.33	0.64	0.21	0.02	0.70	99.69	1.5	130.4	2.0	67	0.05	20.2	22.3	253	4.54	0.25	0.2	1.6	1.1	23	0.1	0.1	0.05	160	0.85	0.09	11	19	0.71	18	0.21	10	1.42	0.14	0.12	0.1	0.01	1.6	0.1	7	0.25
06-ARD-277-009	Tuzo	Diabase	Country Rock	48.26	2.07	16.34	11.33	0.03	7.99	0.48	0.10	5.41	0.30	0.02	7.29	99.62	0.7	1.5	0.9	48	0.05	46.7	36.6	302	7.67	0.25	0.4	0.9	0.6	10	0.05	0.05	0.1	361	0.28	0.13	28	68	4.61	10	0.01	7	3.55	0.01	0.11	0.05	0.005	17.7	0.1	17	0.25
06-ARD-277-023	Tuzo	Diabase	Country Rock	48.15	1.75	12.75	16.03	0.18	7.30	7.21	1.95	0.76	0.21	0.02	3.07	99.38	1.6	131.0	2.9	78	0.05	30.0	32.9	531	6.38	3	0.2	1.4	1.1	24	0.05	0.3	0.05	170	1.17	0.09	11	35	2.53	10	0.25	18	2.15	0.09	0.09	0.1	0.005	11.5	0.1	9	0.25
04-ARD-120-012	Hearne	Diorite	Country Rock	54.33	1.33	14.27	11.93	0.110	5.40	7.59	2.70	1.00	0.31	0.05	0.62	99.64	5.00	60.3	3.6	54	0.1	9.4	24.0	242	3.44	0.9	2.2	1.3	6.1	33	0.1	0.3	0.1	129	1.02	0.147	29	49.4	1.11	323	0.148	2	1.00	0.099	0.45	0.2	0.01	4.4	0.1	5	0.25
04-ARD-120-011	Hearne	Granodiorite	Country Rock	70.20	0.34	14.85	2.44	0.010	0.77	1.60	3.89	4.32	0.07	0.07	0.76	99.32	7.10	33.2	12.2	63	0.1	6.2	5.2	192	1.48	2.0	2.8	1.6	47.1	6	0.1	0.4	0.1	22	0.28	0.032	72	80.7	0.41	55	0.108	2	0.69	0.027	0.47	0.1	0.01	1.9	0.3	6	0.25
04-ARD-137-001	5034	Hypabyssal Kimberlite	Kimberlite	41.77	0.58	3.88	6.90	0.050	29.20	0.81	0.10	0.46	0.27	0.07	15.11	99.20	0.10	36.6	0.9	30	0.1	955.9	59.9	569	3.83	5.1	0.9	2.1	7.6	313	0.1	0.1	0.1	69	0.53	0.114	77	393.2	12.21	618	0.057	57	1.75	0.046	0.55	0.05	0.01	6.3	0.1	6	0.25
04-ARD-137-003	5034	Hypabyssal Kimberlite	Kimberlite	42.61	0.57	4.11	6.98	0.050	29.50	0.46	0.12	0.85	0.09	0.10	13.72	99.16	0.05	31.3	0.5	27	0.1	840.1	49.1	481	3.61	1.5	0.7	1.9	8.0	163	0.1	0.1	0.1	67	0.28	0.037	71	404.3	12.08	768	0.081	60	1.86	0.036	0.95	0.05	0.01	5.3	0.1	6	0.25
04-ARD-137-005	5034	Hypabyssal Kimberlite	Kimberlite	42.47	0.54	4.26	6.63	0.050	29.95	0.56	0.09	0.79	0.14	0.08	13.65	99.21	0.05	61.8	1.5	30	0.1	866.3	63.2	549	3.55	1.5	0.8	1.8	8.5	247	0.1	0.1	0.1	44	0.37	0.057	90	427.7	12.62	653	0.087	75	1.94	0.039	0.94	0.05	0.01	6.0	0.1	5	0.25
04-ARD-137-007	5034	Hypabyssal Kimberlite	Kimberlite	41.58	0.57	4.32	7.09	0.090	30.21	1.38	0.07	0.70	0.27	0.09	12.94	99.31	0.10	16.3	0.9	34	0.1	986.5	54.8	679	3.90	1.7	1.4	0.5	9.2	281	0.1	0.1	0.1	46	0.47	0.097	77	426.1	13.59	708	0.091	193	1.97	0.048	0.78	0.05	0.01	5.6	0.1	5	0.25
04-ARD-137-009	5034	Hypabyssal Kimberlite	Kimberlite	41.08	0.61	4.03	7.50	0.100	26.75	5.73	0.70	1.01	0.28	0.10	10.96	98.85	0.10	42.4	10.7	43	0.1	1084.5	67.0	843	3.89	1.5	1.2	1.3	5.3	388	0.1	0.1	0.1	38	2.14	0.117	43	375.0	12.14	797	0.129	77	1.81	0.457	1.06	0.05	0.01	3.5	0.1	5	0.25
04-ARD-137-011	5034	Hypabyssal Kimberlite	Kimberlite	40.49	0.57	3.81	7.28	0.100	26.52	6.42	1.21	0.57	0.30	0.07	11.85	99.19	4.40	39.1	9.4	41	0.1	1031.0	64.2	822	3.81	1.1	1.2	1.1	5.5	320	0.1	0.1	0.1	25	3.49	0.127	46	398.1	12.47	601	0.123	24	1.73	0.736	0.59	0.05	0.01	4.3	0.1	5	0.25
04-ARD-137-013	5034	Hypabyssal Kimberlite	Kimberlite	40.13	0.60	3.68	7.59	0.100	27.85	5.01	0.91	1.47	0.46	0.12	10.64	98.56	0.10	41.9	11.8	42	0.1	1066.7	66.4	881	4.09	0.9	1.2	2.0	3.9	609	0.1	0.2	0.1	39	3.11	0.181	36	329.7	13.70	959	0.108	40	1.55	0.667	1.61	0.05	0.01	6.0	0.1	5	0.25
04-ARD-137-015	5034	Hypabyssal Kimberlite	Kimberlite	39.56	0.63	3.39	7.94	0.120	29.51	5.13	1.12	1.19	0.37	0.14	9.27	98.37	0.30	46.8	9.6	43	0.1	1105.3	72.3	927	4.30	2.4	1.3	1.5	1.2	429	0.1	0.1	0.1	33	3.21	0.149	21	298.7	14.74	1199	0.102	17	1.45	0.829	1.32	0.05	0.01	6.7	0.3	4	0.25
04-ARD-137-017	5034	Hypabyssal Kimberlite	Kimberlite	37.90	0.66	3.18	8.10	0.120	30.05	5.73	0.54	1.52	0.40	0.15	9.67	98.02	0.30	55.3	10.5	45	0.1	1255.0	76.6	1004	4.87	4.7	1.2	1.5	0.8	607	0.1	0.1	0.1	56	3.84	0.174	13	331.2	14.47	1258	0.090	12	1.45	0.456	1.75	0.05	0.01	7.3	0.2	5	0.25
04-ARD-149-015	5034	Hypabyssal Kimberlite	Kimberlite	36.52	0.63	1.87	8.97	0.100	34.38	1.09	0.01	0.20	0.56	0.02	14.68	99.03	0.30	77.0	1.5	24	0.1	1356.4	83.5	957	5.36	2.1	1.0	1.1	3.4	270	0.1	0.1	0.1	67	0.76	0.238	85	513.3	18.42	243	0.056	573	0.85	0.023	0.27	0.1	0.01	8.3	0.1	3	0.25
04-ARD-168-035	5034	Hypabyssal Kimberlite	Kimberlite	36.02	0.63	3.40	7.19	0.090	30.95	3.61	0.01	0.87	0.46	0.05	15.11	98.39	0.10	3.5	1.9	35	0.1	1021.8	53.7	772	4.44	2.2	0.9	2.2	7.6	236	0.1	0.1	0.1	81	2.28	0.169	60	327.5	16.01	419	0.117	279	1.45	0.036	1.10	0.05	0.01	9.2	0.5	5	0.25
04-ARD-168-037	5034	Hypabyssal Kimberlite	Kimberlite	37.79	0.74	3.00	8.93	0.140	33.86	2.43	0.09	1.14	0.31	0.15	9.97	98.55	0.50	58.4	11.2	49	0.1	1290.0	80.2	1130	5.26	1.0	1.4	1.3	0.9	305	0.1	0.1	0.1	63	1.42	0.128	12	279.4	17.94	1233	0.083	109	1.30	0.050	1.59	0.1	0.01	9.6	0.3	4	0.25
04-ARD-168-039	5034	Hypabyssal Kimberlite	Kimberlite	38.49	0.66	3.40	8.50	0.140	31.72	5.01	0.21	1.55	0.31	0.13	8.14	98.26	1.40	49.7	14.0	51	0.1	1335.5	84.0	1152	5.45	1.3	1.3	1.1	1.2	582	0.1	0.1	0.1	43	3.36	0.134	17	477.2	16.55	1190	0.095	2	1.52	0.216	1.93	0.05	0.01	9.5	0.1	5	0.25
04-ARD-159-002	Hearne	Hypabyssal Kimberlite	Kimberlite	41.22	0.56	4.19	7.15	0.100	29.86	1.78	0.07	0.70	0.46	0.11	13.02	99.22	0.10	57.5	1.5	33	0.1	1115.1	69.4	718	4.04	5.9	1.1	1.0	7.2	506	0.1	0.1	0.1	51	0.71	0.175	61	270.6	14.70	720	0.046	268	1.80	0.047	0.83	0.05	0.01	5.8	0.1	5	0.25
04-ARD-159-004	Hearne	Hypabyssal Kimberlite	Kimberlite	38.90	0.56	3.98	7.09	0.120	27.80	3.33	0.01	1.32	0.33	0.05	15.22	98.71	0.40	42.0	8.0	25	0.1	1042.4	72.6	1111	4.07	10.2	1.1	1.0	9.9	383	0.1	0.2	0.1	51	2.12	0.128	63	330.5	13.37	426	0.086	200	1.79	0.043	1.51	0.05	0.01	6.5	0.8	5	0.25
04-ARD-164-001	Hearne	Hypabyssal Kimberlite	Kimberlite	44.02	0.51	4.80	6.57	0.020	26.05	1.30	0.23	0.41	0.07	0.03	15.61	99.62	0.10	51.1	0.7	18	0.1	796.5	43.7	280	3.26	0.8	0.7	1.2	6.5	183	0.1	0.1	0.1	42	0.76	0.033	67	321.2	11.08	271	0.056	14	2.13	0.051	0.37	0.05	0.01	4.4	0.1	6	0.25
04-ARD-164-003	Hearne	Hypabyssal Kimberlite	Kimberlite	44.06	0.56	4.09	6.59	0.050	29.68	0.58	0.10	0.58	0.07	0.07	13.05	99.48	0.20	48.9	0.6	28	0.1	817.1	52.2	466	3.63	1.9	1.2	2.0	9.8	168	0.1	0.1	0.1	41	0.36	0.031	90	365.9	12.98	558	0.064	65	1.98	0.073	0.73	0.05	0.01	6.1	0.1	6	0.25
04-ARD-164-015	Hearne	Hypabyssal Kimberlite	Kimberlite	36.79	0.66	2.97	8.61	0.120	32.97	5.80	0.01	1.13	0.38	0.14	9.14	98.72	0.40	54.6	12.9	49	0.1	1391.0	85.0	1242	5.33	1.2	1.5	0.7	0.8	356	0.1	0.1	0.1	63	3.53	0.141	7	514.0	16.30	1295	0.109	66	1.42	0.039	1.73	0.1	0.01	9.8	0.2	4	0.5
04-ARD-164-017	Hearne	Hypabyssal Kimberlite	Kimberlite	36.99	0.67	2.75	8.60	0.140	32.81	5.48	0.09	1.21	0.38	0.13	9.32	98.57	0.40	53.5	13.2	51	0.1	1383.3	83.6	1277	5.67	1.9	1.8	0.9	0.7	402	0.1	0.1	0.1	70	4.11	0.180	7	544.6	16.45	1267	0.113	43	1.29	0.098	1.73	0.1	0.01	9.2	0.1	4	0.5
04-ARD-164-019	Hearne	Hypabyssal Kimberlite	Kimberlite	36.11	0.68	3.29	8.48	0.120	31.42	6.30	0.02	1.05	0.34	0.13	10.60	98.54	0.30	49.9	9.7	45	0.1	1162.8	75.0	1105	4.99	1.1	1.3	0.9	0.9	304	0.1	0.1	0.1	56	3.89	0.142	8	565.7	15.26	1068	0.097	102	1.46	0.040	1.35	0.1	0.01	8.5	0.1	4	0.25
04-ARD-164-021	Hearne	Hypabyssal Kimberlite	Kimberlite	35.99	0.64	2.43	8.50	0.120	32.41	3.97	0.01	0.94	0.40	0.11	12.85	98.37	0.20	48.0	8.5	48	0.1	1271.6	80.4	1148	5.22	1.6	1.0	0.8	0.9	251	0.1	0.1	0.1	48	2.60	0.170	6	607.6	16.06	872	0.073	273	1.07	0.033	1.32	0.05	0.01	8.9	0.3	4	0.5
04-ARD-164-023	Hearne	Hypabyssal Kimberlite	Kimberlite	35.99	0.60	2.38	7.26	0.140	35.77	1.30	0.01	0.25	0.46	0.06	15.13	99.35	0.10	92.7	2.0	67	0.1	1202.1	107.1	1171	4.64	1.8	1.2	0.7	2.9	316	0.1	0.1	0.1	39	0.84	0.193	21	528.2	17.36	483	0.056	413	1.16	0.027	0.42	0.1	0.01	8.1	0.1	4	0.25
04-ARD-171-005	Hearne	Hypabyssal Kimberlite	Kimberlite	39.72	0.56	3.30	8.32	0.110	32.31	1.16	0.01	0.93	0.40	0.11	11.71	98.64	0.30	36.6	2.5	42	0.1	1224.7	73.5	940	4.82	0.7	1.1	1.0	3.0	477	0.1	0.1	0.1	45	0.49	0.157	31	398.3	16.30	799	0.078	540	1.39	0.033	1.17	0.1	0.01	8.5	0.1	4	0.25
04-ARD-171-007	Hearne	Hypabyssal Kimberlite	Kimberlite	39.52	0.51	3.60	9.02	0.110	30.17	2.13	0.10	0.51	0.30	0.12	12.55	98.64	0.30	69.6	7.6	236	0.1	1123.6	69.2	974	5.26	1.3	1.1	0.7	3.8	381	0.2	0.1	0.1	46	0.76	0.123	35	327.6	15.02	673	0.048	514	1.55	0.044	0.55	0.05	0.01	5.4	0.1	5	0.25
06-ARD-268-001	Tuzo	Kimberlite	Kimberlite	86.68	0.14	5.40	1.51	0.01	0.70	0.15	0.20	3.49	0.04	0.04	1.11	99.46	9.9	15.5	9.8	10	0.7	21.6	4.0	55	0.74	1.2	0.3	1.2	11.8	4	0.05	0.1	0.2	10	0.06	0.020	32	125	0.38	13	0.002	2	0.34	0.005	0.09	2.3	0.005	0.4	0.1	2	0.25
06-ARD-268-002	Tuzo	Kimberlite	Kimberlite	76.51	0.34	10.29	2.02	0.01	1.17	0.24	1.11	6.16	0.16	0.10	0.98	99.07	8.7	6.1	4.6	17	0.05	19.9	4.0	95	1.14	1.4	0.6	0.25	19.6	4	0.05	0.1	0.1	17	0.11	0.052	48	104	0.61	22	0.002	3	0.62	0.011	0.11	0.1	0.01	0.7	0.1	5	0.25
06-ARD-271-001	Tuzo	Kimberlite	Kimberlite	50.44	0.47	9.26	5.63	0.02	16.64	1.91	1.02	2.79	0.20	0.08	11.04	99.52	0.9	40.9	2.0	28	0.05	576.2	38.7	269	3.46	0.5	0.9	2.7	10.4	153	0.05	0.05	0.1	46	1.10	0.083	47	125	9.40	204	0.067	4	1.73	0.042	0.51	0.05	0.005	4.3	0.1	7	0.25
04-ARD-122-002	5034	Kimberlite	Kimberlite	41.59	0.51	4.61	6.34	0.070	29.23	0.81	0.05	0.51	0.18	0.06	15.47	99.43	0.05	4.5	0.7	29	0.1	815.3	53.3	566	3.56	1.8	0.9	0.3	6.7	251	0.1	0.1	0.1	47	0.54	0.076	72	359.2	13.10	495	0.064	61	2.30	0.048	0.63	0.05	0.01	5.9	0.1	5	0.25
04-ARD-122-004	5034	Kimberlite	Kimberlite	42.09	0.46	7.15	5.92	0.070	27.79	0.77	0.43	1.00	0.23	0.09	13.17	99.17	0.10	40.2	0.9	29	0.1	775.8	43.9	585	3.51	1.3	1.3	0.8	9.5	367	0.1	0.1	0.1	47	0.51	0.097	56	335.3	13.00	621	0.106	128	3.01	0.323	0.63	0.05	0.01	5.4	0.1	5	0.25
04-ARD-122-006	5034	Kimberlite	Kimberlite	40.41	0.60	4.50	7.57	0.100	29.95	3.55	0.23	0.60	0.37	0.12	11.17	99.17	0.10	66.9	1.6	46	0.1	1010.3	58.8	803	4.22	1.1	1.2	0.3	8.6	437	0.1	0.1	0.1	33	0.52	0.115	49	283.0	14.25	754	0.073	253	1.96	0.052	0.65	0.05	0.01	3.2	0.1	5	0.25
04-ARD-122-008	5034	Kimberlite	Kimberlite	39.52	0.66	3.63	8.07	0.110	29.56	2.96	0.10	0.88	0.41	0.13	12.69	98.72	0.10	36.9	12.5	47	0.1	1111.1	67.0	935	4.28	1.5	1.4	0.3	4.8	525	0.1	0.1	0.1	40	1.04	0.158	40	275.4	14.90	913	0.130	587	1.60	0.041	0.99	0.05	0.01	5.5	0.1	4	0.25
04-ARD-122-010	5034	Kimberlite	Kimberlite	44.59	0.55	4.69	5.90	0.030	27.02	0.95	0.18	0.64	0.10	0.06	14.52	99.23	0.05	41.7	0.7	20	0.1	773.8	50.7	283	2.74	1.7	0.7	1.0	7.8	186	0.1	0.1	0.1	56	0.60	0.041	68	290.6	11.35	523	0.084	49	2.23	0.058	0.73	0.05	0.01	5.0	0.1	8	0.25
04-ARD-122-012	5034	Kimberlite	Kimberlite	44.63	0.55	4.30	6.78	0.070	27.22	2.25	0.50	0.67	0.05	0.06	12.32	99.40	0.05	35.6	0.9	30	0.1	884.1	48.1	477	3.24	1.5	1.2	1.1	8.2	124	0.1	0.1	0.1	36	0.46	0.029	60	238.2	12.09	511	0.059	96	2.04	0.103	0.63	0.05	0.01	4.2	0.1	6	0.25
04-ARD-122-014	5034	Kimberlite	Kimberlite	43.88	0.56	4.42	6.67	0.090	27.20	2.67	0.50	0.58	0.23	0.06	12.65	99.51	0.10	17.9	1.2	29	0.1	967.2	49.5	523	3.29	4.0	1.2	1.1	8.4	323	0.1	0.1	0.1	51	0.62	0.082	66	240.9	10.40	519	0.062	142	2.12	0.126	0.54	0.05	0.01	4.5	0.1	11	0.25
04-ARD-122-016	5034	Kimberlite	Kimberlite	40.45	0.62	4.38	7.51	0.110	27.62	6.11	1.04	0.86	0.31	0.13	9.77	98.91	0.20	45.4	10.1	45	0.1	1160.1	66.2	855	4.31	1.8	0.8	0.3	2.6	556	0.1	0.1	0.1	41	3.26	0.137	31	267.0	11.69	993	0.081	25	2.01	0.697	1.03	0.05	0.01	4.8	0.1	5	0.25
04-ARD-122-018	5034	Kimberlite	Kimberlite	41.77	0.46	8.89	5.21	0.070	18.03	8.77	3.13	0.72	0.25	0.16	10.50	97.96	0.20	36.6	12.4	36	0.1	701.2	42.0	610	2.95	1.1	0.9	0.3	7.9	10000	0.1	0.1	0.1	47	5.77	0.108	37	191.2	7.56	1352	0.085	2	4.00	2.309	0.73	0.05	0.01	2.5	0.1	6	0.25
04-ARD-122-020	5034	Kimberlite	Kimberlite	37.90	0.62	2.95	8.25	0.120	32.02	4.40	0.27	1.15	0.34	0.12	10.47	98.61	0.60	44.3	9.6	48	0.1	1326.6	83.6	1055	5.08	1.2	1.2	0.6	1.1	429	0.1	0.1	0.1	40	2.97	0.131	12	422.5	14.69	1019	0.078	43	1.31	0.253	1.59	0.1	0.01	7.9	0.2	4	0.25
04-ARD-124-001	5034	Kimberlite	Kimberlite	40.34	0.60	3.81	7.44	0.070	28.92	1.16	0.01	0.43	0.40	0.06	16.12	99.36	0.10	44.9	1.0	30	0.1	963.3	58.8	664	4.44	1.1	1.1	0.3	6.2	398	0.1	0.1	0.1	38	0.86	0.126	68	418.3	12.00	534	0.062	53	1.71	0.036	0.56	0.05	0.01	6.9	0.1	5	0.25
04-ARD-124-003	5034	Kimberlite	Kimberlite	42.40	0.47	6.51	6.05	0.070	27.92	0.93	0.23	0.46	0.15	0.05	14.35	99.59	0.10	25.8	0.9	23	0.1	742.9	38.3	500	3.23	1.4	0.9	0.3	7.8	289	0.1	0.1	0.1	39	0.54	0.056	71	275.1	12.15	388	0.056	73	2.76	0.134	0.37	0.05	0.01	5.2	0.1	6	0.25
04-ARD-124-005	5034	Kimberlite	Kimberlite	43.79	0.54	4.19	6.36	0.050	28.75	0.89	0.03	0.38	0.23	0.06	14.36	99.63	0.10	24.8	2.4	24	0.1	917.8	53.7	515	3.56	4.9	1.1	1.3	8.1	328	0.1	0.1	0.1	36	0.61	0.101	84	295.8	11.95	480	0.044	70	2.03	0.045	0.49	0.05	0.01	5.8	0.1	6	0.25
04-ARD-124-007	5034	Kimberlite	Kimberlite	43.63	0.56	4.32	6.51	0.050	27.98	1.10	0.20	0.46	0.43	0.06	14.36	99.66	0.10	62.2	1.5	26	0.1	922.6	61.4	431	3.32	1.7	1.0	0.3	7.6	412	0.1	0.1	0.1	32	0.70	0.130	64	253.6	10.86	473	0.035	62	1.92	0.048	0.48	0.05	0.01	5.6	0.1	6	0.25
04-ARD-126-005	5034	Kimberlite	Kimberlite	38.74	0.68	3.72	7.28	0.100	26.62	8.81	0.10	0.18	0.23	0.06	12.64	99.16	0.20	47.6	12.7	31	0.1	1012.6	59.4	705	3.91	1.7	2.1	1.9	14.1	247	0.1	0.1	0.1	42	3.56	0.101	72	300.4	12.03	461	0.230	39	1.71	0.025	0.23	0.05	0.01	2.6	0.1	3	0.25
04-ARD-126-007	5034	Kimberlite	Kimberlite	38.81	0.61	3.25	7.98	0.110	29.69	5.30	0.58	1.02	0.36	0.10	11.02	98.83	0.50	48.4	7.7	47	0.1	1184.2	70.5	935	4.56	2.0	1.1	1.3	1.5	295	0.1	0.1	0.1	59	3.31	0.136	29	243.9	14.88	1006	0.101	41	1.47	0.470	1.30	0.05	0.01	6.8	0.2	4	0.25
04-ARD-126-009	5034	Kimberlite	Kimberlite	38.50	0.58	4.61	7.05	0.100	27.34	8.65	0.10	0.50	0.37	0.05	11.31	99.16	0.30	34.2	10.3	37	0.1	993.8	59.8	793	3.85	1.7	2.7	1.9	10.7	296	0.1	0.1	0.1	60	4.12	0.152	67	346.3	12.34	499	0.177	25	2.09	0.088	0.58	0.05	0.01	3.7	0.2	3	0.25
04-ARD-126-011	5034	Kimberlite	Kimberlite	39.47	0.62	3.73	7.80	0.110	29.10	5.26	0.81	1.60	0.41	0.13	8.98	98.02	0.20	54.4	10.5	44	0.1	1216.8	72.0	923	4.47	1.2	1.2	1.3	1.5	362	0.1	0.1	0.1	60	2.98	0.160	32	273.8	13.66	1078	0.117	22	1.70	0.579	1.93	0.05	0.01	5.4	0.2	5	0.25
04-ARD-126-013	5034	Kimberlite	Kimberlite	39.13	0.63	3.85	8.18	0.110	30.47	4.32	0.64	1.50	0.37	0.13	8.52	97.85	0.30	58.1	11.0	48	0.1	1193.3	70.7	929	4.58	1.3	1.3	2.0	4.0	4576	0.1	0.1	0.1	57	2.16	0.147	30	253.7	14.22	1069	0.102	11	1.77	0.424	1.92	0.05	0.01	5.6	0.3	6	0.25
04-ARD-126-015	5034	Kimberlite	Kimberlite	38.81	0.66	3.78	8.27	0.120	31.04	4.48	0.79	1.29	0.46	0.14	8.64	98.48	0.30	50.9	12.8	45	0.1	1188.5	70.7	965	4.54	1.2	1.3	1.5	1.3	513	0.1	0.1	0.1	46	2.56	0.174	38	164.0	15.11	1124	0.127	8	1.73	0.556	1.60	0.05	0.01	6.2	0.2	5	0.25
04-ARD-126-017	5034	Kimberlite	Kimberlite	39.66	0.62	3.32	7.78	0.110	29.17	6.61	1.26	1.40	0.38	0.17	7.94	98.42	0.40	52.1	12.6	45	0.1	1156.9	68.7	969	4.58	1.3	1.1	2.3	1.3	858	0.1	0.1	0.1	53	4.38	0.157	29	180.9	13.80	1279	0.105	4	1.56	0.943	1.87	0.05	0.01	7.4	0.2	5	0.25
04-ARD-130-001	5034	Kimberlite	Kimberlite	39.00	0.66	3.93	7.73	0.100	32.09	1.08	0.05	0.94	0.47	0.12	12.50	98.67	0.10	47.5	10.9	39	0.1	1219.0	70.6	888	4.61	1.3	1.4	1.1	7.2	481	0.1	0.1	0.1	65	0.55	0.179	52	348.8	15.70	1078	0.127	224	2.01	0.042	1.38	0.05	0.01	7.6	0.1	5	0.25
04-ARD-130-003	5034	Kimberlite	Kimberlite	38.22	0.58	3.77	7.42	0.110	31.00	2.45	0.07	1.02	0.47	0.12	13.59	98.82	0.20	60.5	9.0	41	0.1	1066.5	62.1	893	4.30	2.8	1.7	0.9	8.7	520	0.1	0.1	0.1	101	1.60	0.180	62	338.5	15.45	1070	0.197	55	1.69	0.048	1.36	0.1	0.01	7.3	0.1	10	0.25
04-ARD-130-005	5034	Kimberlite	Kimberlite	39.45	0.66	3.45	7.76	0.110	27.67	5.73	0.80	1.54	0.41	0.16	10.65	98.39	0.10	76.5	14.6	46	0.1	1142.1	68.7	949	4.59	2.9	1.7	1.4	4.1	473	0.1	0.1	0.1	53	3.72	0.166	42	300.0	13.63	1290	0.159	69	1.53	0.597	1.66	0.05	0.01	7.4	0.1	4	0.25
04-ARD-130-007	5034	Kimberlite	Kimberlite	37.41	0.73	3.10	8.68	0.120	31.72	4.51	0.27	1.11	0.49	0.13	10.21	98.48	0.10	53.5	12.2	46	0.1	1294.9	77.7	1036	5.04	1.2	1.4	1.9	0.6	375	0.1	0.1	0.1	56	2.88	0.160	17	288.9	15.63	1213	0.115	66	1.37	0.202	1.45	0.1	0.01	9.5	0.2	4	0.25
04-ARD-130-009	5034	Kimberlite	Kimberlite	35.95	0.70	2.67	8.81	0.140	33.22	5.82	0.12	0.92	0.25	0.15	9.55	98.30	0.30	43.6	7.7	42	0.1	1274.6	77.2	1041	4.82	0.9	0.9	1.6	0.5	298	0.1	0.1	0.1	51	3.47	0.097	5	517.7	16.66	1293	0.091	27	1.19	0.085	1.15	0.1	0.01	7.9	0.1	3	0.25
04-ARD-130-011	5034	Kimberlite	Kimberlite	36.47	0.70	2.68	8.78	0.120	33.20	6.53	0.12	0.56	0.37	0.14	9.47	99.14	0.50	52.4	11.2	43	0.1	1281.5	82.8	1131	5.12	1.2	1.2	1.3	1.1	470	0.1	0.1	0.1	41	3.86	0.150	8	682.3	15.86	1209	0.096	12	1.10	0.097	0.71	0.05	0.01	8.2	0.2	4	0.25
04-ARD-130-013	5034	Kimberlite	Kimberlite	37.06	0.72	2.50	8.92	0.140	34.11	6.01	0.23	0.99	0.37	0.15	7.55	98.75	0.70	41.7	9.3	45	0.1	1309.0	83.2	1161	5.01	1.8	0.9	1.0	0.6	483	0.1	0.1	0.1	61	3.71	0.138	4	610.3	16.16	1314	0.082	0.5	1.09	0.143	1.21	0.05	0.01	7.9	0.2	3	0.25
04-ARD-130-015	5034	Kimberlite	Kimberlite	37.34	0.69	3.07	8.56	0.140	32.00	6.40	0.40	0.76	0.27	0.10	9.06	98.79	0.60	42.1	9.7	45	0.1	1297.0	79.9	1032	4.83	1.3	1.2	0.7	1.0	457	0.1	0.1	0.1	46	4.13	0.112	17	401.4	15.11	966	0.097	0.5	1.44	0.319	1.00	0.1	0.01	8.3	0.2	4	0.25
04-ARD-130-017	5034	Kimberlite	Kimberlite	39.77	0.62	4.40	7.48	0.100	27.53	7.40	1.10	1.11	0.25	0.18	8.76	98.70	0.40	47.7	11.4	46	0.1	1132.7	67.8	923	4.26	1.4	1.3	1.9	2.3	855	0.1	0.1	0.1	42	3.69	0.115	36	310.9	12.28	1182	0.113	9	1.98	0.865	1.22	0.05	0.01	4.8	0.2	4	0.25
04-ARD-132-001	5034	Kimberlite	Kimberlite	43.65	0.50	5.59	6.23	0.010	24.53	1.32	0.23	0.70	0.18	0.08	16.68	99.70	0.10	102.5	0.8	17	0.1	836.9	50.2	228	3.25	1.8	0.6	4.6	9.6	212	0.1	0.1	0.1	74	0.82	0.049	74	293.9	10.09	657	0.077	10	2.59	0.052	0.60	0.05	0.01	3.6	0.1	7	0.25
04-ARD-132-003	5034	Kimberlite	Kimberlite	44.52	0.47	6.46	6.32	0.010	23.28	1.39	0.27	1.05	0.14	0.11	15.68	99.70	0.30	56.5	1.2	16	0.1	708.8	41.6	218	3.40	1.3	0.8	0.9	14.1	201	0.1	0.1	0.1	39	0.86	0.060	67	229.3	10.05	648	0.077	9	2.73	0.050	0.59	0.05	0.01	3.5	0.1	7	0.25

Whole Rock and Bulk Metal Analysis

Sample ID	Pit	Lithology		SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O
				%	%	%	%	%	%	%	%
04-ARD-132-005	5034	Kimberlite	Kimberlite	48.93	0.37	9.72	4.38	0.020	17.20	1.46	0.37
04-ARD-132-007	5034	Kimberlite	Kimberlite	46.40	0.49	6.44	5.53	0.020	21.65	1.42	0.25
04-ARD-132-009	5034	Kimberlite	Kimberlite	47.11	0.52	5.86	5.80	0.030	21.48	1.32	0.25
04-ARD-132-011	5034	Kimberlite	Kimberlite	45.84	0.49	6.69	5.71	0.030	22.79	1.15	0.28
04-ARD-132-013	5034	Kimberlite	Kimberlite	45.59	0.58	5.11	6.19	0.030	23.12	1.27	0.31
04-ARD-132-015	5034	Kimberlite	Kimberlite	45.41	0.47	6.21	5.51	0.020	22.68	1.37	0.23
04-ARD-132-017	5034	Kimberlite	Kimberlite	43.75	0.62	4.90	6.92	0.070	27.04	1.00	0.17
04-ARD-139-010	5034	Kimberlite	Kimberlite	51.06	0.46	6.55	7.44	0.070	18.55	2.77	0.01
04-ARD-139-011	5034	Kimberlite	Kimberlite	45.58	0.47	8.01	5.86	0.020	22.37	2.75	0.02
04-ARD-139-013	5034	Kimberlite	Kimberlite	42.90	0.50	4.59	7.42	0.020	26.69	1.22	0.10
04-ARD-139-015	5034	Kimberlite	Kimberlite	41.34	0.55	4.23	6.50	0.050	29.84	0.82	0.01
04-ARD-139-017	5034	Kimberlite	Kimberlite	38.54	0.62	3.34	8.19	0.110	32.47	1.71	0.03
04-ARD-139-019	5034	Kimberlite	Kimberlite	44.90	0.57	4.84	6.63	0.020	27.77	0.81	0.23
04-ARD-139-021	5034	Kimberlite	Kimberlite	43.40	0.56	4.92	6.73	0.090	26.72	3.34	0.43
04-ARD-139-023	5034	Kimberlite	Kimberlite	42.13	0.56	4.23	6.84	0.070	28.09	3.78	0.37
04-ARD-139-025	5034	Kimberlite	Kimberlite	41.97	0.56	4.17	7.05	0.070	28.82	1.15	0.09
04-ARD-139-027	5034	Kimberlite	Kimberlite	42.43	0.58	4.53	6.84	0.090	27.79	2.50	0.37
04-ARD-139-029	5034	Kimberlite	Kimberlite	41.09	0.58	3.93	6.67	0.070	29.00	1.41	0.05
04-ARD-139-031	5034	Kimberlite	Kimberlite	40.24	0.52	3.52	7.00	0.070	29.75	2.24	0.12
04-ARD-139-034	5034	Kimberlite	Kimberlite	42.75	0.49	3.19	5.96	0.050	30.82	1.47	0.01
04-ARD-145-017	5034	Kimberlite	Kimberlite	39.75	0.56	3.16	7.36	0.100	30.44	1.27	0.01
04-ARD-145-018	5034	Kimberlite	Kimberlite	36.95	0.58	3.41	7.86	0.140	33.09	1.13	0.01
04-ARD-145-020	5034	Kimberlite	Kimberlite	41.20	0.55	4.63	7.03	0.050	30.81	0.56	0.09
04-ARD-145-022	5034	Kimberlite	Kimberlite	43.29	0.54	5.73	6.90	0.100	25.95	4.17	0.80
04-ARD-145-024	5034	Kimberlite	Kimberlite	42.90	0.55	5.71	6.82	0.070	26.63	2.74	0.57
04-ARD-145-026	5034	Kimberlite	Kimberlite	41.72	0.57	4.42	7.13	0.070	29.21	1.00	0.07
04-ARD-145-028	5034	Kimberlite	Kimberlite	42.65	0.62	4.03	7.36	0.100	28.19	1.19	0.14
04-ARD-145-030	5034	Kimberlite	Kimberlite	40.34	0.60	3.94	7.13	0.090	30.57	1.22	0.05
04-ARD-145-032	5034	Kimberlite	Kimberlite	39.84	0.62	4.07	7.82	0.100	28.38	4.03	0.51
04-ARD-145-034	5034	Kimberlite	Kimberlite	38.34	0.62	3.20	7.46	0.140	30.52	1.76	0.01
04-ARD-145-036	5034	Kimberlite	Kimberlite	38.75	0.62	3.71	7.80	0.110	30.17	2.45	0.07
04-ARD-145-038	5034	Kimberlite	Kimberlite	56.83	0.28	18.46	2.38	0.020	2.78	1.59	1.37
04-ARD-149-001	5034	Kimberlite	Kimberlite	34.45	0.62	3.94	7.82	0.110	35.36	0.49	0.01
04-ARD-149-003	5034	Kimberlite	Kimberlite	34.63	0.66	2.18	8.17	0.070	35.95	0.58	0.01
04-ARD-149-005	5034	Kimberlite	Kimberlite	33.02	0.66	2.14	8.10	0.100	36.49	1.12	0.01
04-ARD-149-007	5034	Kimberlite	Kimberlite	32.45	0.64	1.74	8.77	0.150	34.45	3.16	0.01
04-ARD-149-009	5034	Kimberlite	Kimberlite	35.95	0.57	2.15	8.55	0.140	34.02	3.09	0.01
04-ARD-149-011	5034	Kimberlite	Kimberlite	33.65	0.64	1.72	8.84	0.120	34.86	2.33	0.01
04-ARD-149-013	5034	Kimberlite	Kimberlite	34.18	0.61	1.69	8.86	0.180	35.29	1.37	0.05
04-ARD-180-041	5034	Kimberlite	Kimberlite	40.49	0.62	3.99	7.84	0.120	28.69	5.34	1.10
04-ARD-180-043	5034	Kimberlite	Kimberlite	39.38	0.63	4.21	7.98	0.120	29.07	5.30	0.57
04-ARD-234-023	5034	Kimberlite	Kimberlite	40.00	0.62	4.71	7.71	0.120	28.70	3.68	0.28
04-ARD-234-024	5034	Kimberlite	Kimberlite	40.49	0.62	3.71	7.84	0.110	29.45	4.88	0.93
04-ARD-234-025	5034	Kimberlite	Kimberlite	40.36	0.62	3.71	7.78	0.110	29.22	5.07	1.00
04-ARD-234-026	5034	Kimberlite	Kimberlite	40.08	0.62	4.07	7.75	0.100	28.45	5.30	1.12
04-ARD-234-027	5034	Kimberlite	Kimberlite	41.09	0.61	3.79	7.65	0.100	27.84	5.32	0.99
04-ARD-234-028	5034	Kimberlite	Kimberlite	40.31	0.62	4.86	7.57	0.100	27.17	6.00	1.22
04-ARD-234-029	5034	Kimberlite	Kimberlite	40.95	0.60	4.01	7.42	0.100	27.30	6.11	1.24
04-ARD-234-030	5034	Kimberlite	Kimberlite	39.83	0.63	3.38	8.02	0.100	29.93	5.46	1.02
04-ARD-234-031	5034	Kimberlite	Kimberlite	40.22	0.63	3.72	7.80	0.100	28.63	6.26	1.15
04-ARD-234-032	5034	Kimberlite	Kimberlite	40.11	0.62	4.15	7.92	0.110	29.07	5.75	0.91
04-ARD-234-033	5034	Kimberlite	Kimberlite	42.63	0.57	4.26	6.98	0.100	25.12	6.48	0.75
04-ARD-234-034	5034	Kimberlite	Kimberlite	44.79	0.49	4.90	5.98	0.090	26.19	3.40	1.07
04-ARD-234-035	5034	Kimberlite	Kimberlite	44.31	0.55	4.92	6.05	0.070	25.94	4.21	0.46
04-ARD-234-036	5034	Kimberlite	Kimberlite	44.04	0.52	4.63	6.38	0.070	26.20	4.26	0.40
04-ARD-234-037	5034	Kimberlite	Kimberlite	44.06	0.51	4.80	6.26	0.030	27.88	1.78	0.10
04-ARD-234-038	5034	Kimberlite	Kimberlite	43.75	0.55	5.67	6.23	0.030	27.86	1.02	0.17
04-ARD-234-039	5034	Kimberlite	Kimberlite	43.40	0.57	4.61	6.69	0.030	27.90	1.20	0.03
04-ARD-121-025	Hearne	Kimberlite	Kimberlite	55.88	0.34	6.32	4.07	0.030	12.30	3.53	0.17
04-ARD-121-027	Hearne	Kimberlite	Kimberlite	60.95	0.31	10.97	3.40	0.010	8.85	1.25	1.57
04-ARD-121-029	Hearne	Kimberlite	Kimberlite	51.29	0.36	9.51	4.40	0.030	14.73	1.77	0.91
04-ARD-121-031	Hearne	Kimberlite	Kimberlite	51.86	0.37	10.01	4.17	0.030	13.81	2.25	1.25
04-ARD-121-033	Hearne	Kimberlite	Kimberlite	56.13	0.36	10.60	3.83	0.020	12.19	1.30	1.48
04-ARD-121-035	Hearne	Kimberlite	Kimberlite	53.75	0.43	10.06	4.55	0.020	13.40	1.90	1.29
04-ARD-121-037	Hearne	Kimberlite	Kimberlite	53.25	0.37	10.10	4.03	0.020	13.56	1.79	1.19
04-ARD-121-039	Hearne	Kimberlite	Kimberlite	52.95	0.37	10.05	3.91	0.020	13.68	1.60	1.25
04-ARD-121-040	Hearne	Kimberlite	Kimberlite	60.11	0.36	11.44	3.45	0.010	9.22	1.20	1.95
04-ARD-121-041	Hearne	Kimberlite	Kimberlite	56.95	0.37	10.52	3.70	0.020	11.51	1.49	1.92
04-ARD-121-042	Hearne	Kimberlite	Kimberlite	55.54	0.50	12.06	5.17	0.050	10.39	3.03	2.07
04-ARD-121-043	Hearne	Kimberlite	Kimberlite	58.43	0.40	11.94	3.82	0.020	9.64	1.50	1.96
04-ARD-121-044	Hearne	Kimberlite	Kimberlite	54.38	0.38	11.05	4.38	0.050	12.64	2.07	1.77
04-ARD-121-045	Hearne	Kimberlite	Kimberlite	58.22	0.28	11.10	3.39	0.010	9.84	1.53	1.30
04-ARD-142-043	Hearne	Kimberlite	Kimberlite	45.81	0.62	2.99	6.53	0.030	24.96	1.87	0.23
04-ARD-152-001	Hearne	Kimberlite	Kimberlite	48.31	0.41	7.92	4.71	0.020	18.94	1.80	0.69
04-ARD-152-003	Hearne	Kimberlite	Kimberlite	48.72	0.44	8.11	5.13	0.020	18.63	1.92	0.76
04-ARD-152-005	Hearne	Kimberlite	Kimberlite	45.43	0.40	7.51	5.78	0.020	21.69	1.48	0.46
04-ARD-152-007	Hearne	Kimberlite	Kimberlite	47.61	0.40	8.96	4.42	0.020	15.05	1.61	0.69
04-ARD-181-002	Hearne	Kimberlite	Kimberlite	42.16	0.63	3.89	7.73	0.090	28.39	1.41	0.10
04-ARD-181-004	Hearne	Kimberlite	Kimberlite	42.59	0.60	3.80	7.01	0.070	29.79	1.53	0.11
04-ARD-181-006	Hearne	Kimberlite	Kimberlite	42.83	0.72	3.93	7.48	0.070	29.63	1.27	0.09
04-ARD-181-008	Hearne	Kimberlite	Kimberlite	38.84	0.49	3.20	5.53	0.120	36.02	0.88	0.01
04-ARD-181-010	Hearne	Kimberlite	Kimberlite	38.97	0.66	3.33	8.17	0.110	30.02	4.96	0.31
04-ARD-181-012	Hearne	Kimberlite	Kimberlite	37.65	0.73	3.15	8.72	0.120	31.97	6.65	0.23
04-ARD-181-014	Hearne	Kimberlite	Kimberlite	37.74	0.62	3.21	8.31	0.120	32.04	6.44	0.07
04-ARD-181-016	Hearne	Kimberlite	Kimberlite	38.04	0.57	3.00	8.02	0.110	31.10	6.34	0.30
04-ARD-181-018	Hearne	Kimberlite	Kimberlite	36.68	0.62	2.90	8.42	0.120	32.61	5.69	0.01
04-ARD-186-002	Hearne	Kimberlite	Kimberlite	44.79	0.51	7.61	5.96	0.010	23.40	1.72	0.15
04-ARD-186-004	Hearne	Kimberlite	Kimberlite	45.16	0.41	5.63	5.55	0.020	24.54	2.13	0.07
04-ARD-186-006	Hearne	Kimberlite	Kimberlite	44.38	0.44	5.53	5.96	0.020	25.12	1.70	0.49
04-ARD-186-010	Hearne	Kimberlite	Kimberlite	46.09	0.50	5.28	6.00	0.020	25.10	1.32	0.20
04-ARD-190-001	Hearne	Kimberlite	Kimberlite	73.48	0.20	13.69	1.69	0.010	0.55	0.88	3.38
04-ARD-190-002	Hearne	Kimberlite	Kimberlite	72.98	0.25	13.67	1.88	0.010	0.57	0.80	3.47
04-ARD-190-003	Hearne	Kimberlite	Kimberlite	73.20	0.25	13.68	1.88	0.010	0.56	0.79	3.45
04-ARD-190-004	Hearne	Kimberlite	Kimberlite	72.41	0.23	13.61	1.97	0.010	0.50	0.54	2.90
04-ARD-190-005	Hearne	Kimberlite	Kimberlite	70.83	0.37	14.26	2.39	0.010	0.86	1.13	3.70
04-ARD-190-006	Hearne	Kimberlite	Kimberlite	45.38	0.46	5.17	6.38	0.020	27.19	1.26	0.30
04-ARD-190-008	Hearne	Kimberlite	Kimberlite	45.27	0.34	5.61	5.73	0.010	26.68	1.64	0.43
04-ARD-190-010	Hearne	Kimberlite	Kimberlite	45.41	0.43	4.88	6.01	0.020	27.06	1.24	0.57
04-ARD-190-012	Hearne	Kimberlite	Kimberlite	43.29	0.57	3.90	7.38	0.110	27.12	4.44	0.37
04-ARD-190-014	Hearne	Kimberlite	Kimberlite	45.41	0.51	5.40	6.38	0.070	25.43	2.31	0.87
04-ARD-190-016	Hearne	Kimberlite	Kimberlite	44.33	0.50	6.07	6.40	0.030	25.70	1.71	0.40
04-ARD-193-002	Hearne	Kimberlite	Kimberlite	42.79	0.51	3.68	6.69	0.070	30.09	0.62	0.02
04-ARD-193-004	Hearne	Kimberlite	Kimberlite	35.41	0.62	1.91	7.98	0.100	35.27	1.19	0.01
04-ARD-193-006	Hearne	Kimberlite	Kimberlite	41.90	0.60	4.36	7.15	0.070	29.00	3.48	0.20
04-ARD-193-008	Hearne	Kimberlite	Kimberlite	33.11	0.61	1.58	8.56	0.120	34.86	2.57	0.01
04-ARD-193-010	Hearne	Kimberlite	Kimberlite	37.16	0.69	3.39	8.47	0.110	30.62	4.28	0.01
04-ARD-193-012	Hearne	Kimberlite	Kimberlite	36.90	0.52	3.00	7.59	0.100	28.59	8.57	0.01
04-ARD-193-014	Hearne	Kimberlite	Kimberlite	38.15	0.70	3.43	8.56	0.120	31.78	5.26	0.25
04-ARD-193-016	Hearne	Kimberlite	Kimberlite	38.86	0.56	2.63	7.42	0.120	32.59	1.58	0.01
04-ARD-196-002	Hearne	Kimberlite	Kimberlite	48.16	0.40	7.48	4.92	0.020	19.70	1.62	0.58
04-ARD-196-004	Hearne	Kimberlite	Kimberlite	46.90	0.41	7.13	5.30	0.020	20.80	1.80	0.55
04-ARD-196-006	Hearne	Kimberlite	Kimberlite	46.77	0.43	6.90	5.21	0.010	20.70	1.72	0.43
04-ARD-196-008	Hearne	Kimberlite	Kimberlite	46.75	0.41	7.32	5.21	0.020	20.20	1.85	0.40
04-ARD-196-010	Hearne	Kimberlite	Kimberlite	46.18	0.41	6.86	6.09	0.010	22.02	1.46	0.33
04-ARD-200-036	Hearne	Kimberlite	Kimberlite	44.84	0.43	6.36	6.01	0.020	25.20	1.52	0.44
04-ARD-164-009	Hearne	Hypabyssal Kimberlite Transitional Zone	Kimberlite	39.29	0.66	4.05	7.88	0.120	28.26	5.76	0.81
04-ARD-164-011	Hearne	Hypabyssal Kimberlite Transitional Zone	Kimberlite	37.59	0.69	3.22	8.48	0.120	30.92	5.11	0.20
04-ARD-164-013	Hearne	Hypabyssal Kimberlite Transitional Zone	Kimberlite	36.81	0.68	3.13	8.60	0.140	32.06	6.01	0.03
04-ARD-171-001	Hearne	Hypabyssal Kimberlite Transitional Zone	Kimberlite	41.36	0.62	3.69	8.63	0.140	27.92	2.13	0.09
04-ARD-164-005	Hearne	Tuffisitic Kimberlite	Kimberlite	42.59	0.61	4.07	7.13	0.070	29.88	0.72	0.07
04-ARD-164-007	Hearne	Tuffisitic Kimberlite	Kimberlite	42.81	0.60	4.23	6.71	0.050	30.02	0.89	0.03
04-ARD-171-003	Hearne	Tuffisitic Kimberlite	Kimberlite	44.34	0.44	5.05	5.82	0.020	26.45	1.27	0.30
04-ARD-171-009	Hearne	Tuffisitic Kimberlite	Kimberlite	41.83	0.40	6.90	6.11	0.050	27.54	1.10	0.10
04-ARD-171-011	Hearne	Tuffisitic Kimberlite	Kimberlite	43.58	0.47	5.98	6.34	0.070	27.12	1.00	0.05
04-ARD-171-013	Hearne	Tuffisitic Kimberlite	Kimberlite	43.81	0.46	5.90	6.34	0.050	25.87	1.50	0.31
04-ARD-171-015	Hearne	Tuffisitic Kimberlite	Kimberlite	43.29	0.50	7.50	6.69	0.050	24.60	1.29	0.58
04-ARD-171-017	Hearne	Tuffisitic Kimberlite	Kimberlite	44.83	0.47	6.67	6.25	0.050	24.26	1.59	0.46
04-ARD-171-019	Hearne	Tuffisitic Kimberlite	Kimberlite	45.36	0.52	5.15	6.30	0.050	25.29	1.50	0.37
04-ARD-171-021	Hearne	Tuffisitic Kimberlite	Kimberlite	44.97	0.47	6.98	6.30	0.050	23.94	1.48	0.49
04-ARD-171-023	Hearne	Tuffisitic Kimberlite	Kimberlite	44.38	0.50	6.21	6.86	0.050	25.61	1.21	0.54
04-ARD-171-025	Hearne	Tuffisitic Kimberlite	Kimberlite	44.52	0.50	5.13	6.55	0.030	27.98	0.94	0.09
04-ARD-157-002	Hearne	Tuffisitic Kimberlite Breccia	Kimberlite	49.15	0.43	7.59	5.23	0.020	18.52	2.60	0.15
04-ARD-157-004	Hearne	Tuffisitic Kimberlite Breccia	Kimberlite	47.72	0.40	7.40	7.30	0.020	18.63	1.62	0.37
04-ARD-157-006	Hearne	Tuffisitic Kimberlite Breccia	Kimberlite	46.93	0.37	8.11	5.19	0.010	19.38	1.58	0.28
04-ARD-157-008	Hearne	Tuffisitic Kimberlite Breccia	Kimberlite	48.63	0.38	8.47	4.65	0.010	17.62	1.50	0.20
04-ARD-157-010	Hearne	Tuffisitic Kimberlite Breccia	Kimberlite	50.06	0.37	8.34	4.28	0.010	15.93	1.90	0.41

Sample ID	K2O	P205	Ba(F)	LOI	Total	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
04-ARD-132-005	3.69	0.37	0.23	12.31	99.05	0.70	18.1	0.8	21	0.1	448.6	27.0	242	2.30	1.3	0.5	0.3	5.8	180	0.1	0.1	0.1	30
04-ARD-132-007	1.77	0.20	0.09	14.89	99.15	3.00	58.0	1.0	20	0.1	699.2	39.9	242	2.89	2.2	1.4	0.9	12.1	222	0.1	0.1	0.1	34
04-ARD-132-009	2.27	0.34	0.09	13.73	98.80	0.20	38.2	1.3	27	0.1	784.1	50.3	324	3.13	2.0	1.1	1.0	13.8	310	0.1	0.1	0.1	44
04-ARD-132-011	2.00	0.21	0.09	13.53	98.81	0.20	36.6	0.9	25	0.1	761.8	46.2	373	3.01	1.6	0.9	1.4	7.5	255	0.1	0.1	0.1	37
04-ARD-132-013	1.54	0.20	0.09	14.64	98.67	0.20	76.6	0.7	28	0.1	994.1	66.5	324	3.54	1.7	0.9	1.3	10.1	263	0.1	0.1	0.1	40
04-ARD-132-015	1.82	0.25	0.08	15.06	99.11	0.70	7.0	0.9	28	0.1	722.2	59.5	282	3.07	1.2	0.9	1.9	9.2	266	0.1	0.1	0.1	41
04-ARD-132-017	1.24	0.40	0.09	12.72	98.92	0.10	114.9	1.0	28	0.1	1058.4	65.5	603	3.77	1.6	1.4	1.3	12.1	394	0.1	0.1	0.1	51
04-ARD-139-010	0.46	0.21	0.03	12.15	99.76	2.90	14.7	8.0	35	0.1	768.0	47.5	742	5.04	1.9	1.1	1.2	8.8	185	0.1	0.1	0.1	54
04-ARD-139-011	0.55	0.25	0.03	13.64	99.55	1.60	14.1	9.0	27	0.1	834.0	58.3	338	3.65	2.1	0.8	0.9	8.0	193	0.1	0.1	0.1	52
04-ARD-139-013	0.57	0.18	0.06	15.39	99.64	0.10	44.2	0.8	24	0.1	886.1	51.1	386	4.62	1.5	0.7	1.6	6.7	258	0.1	0.1	0.1	53
04-ARD-139-015	0.58	0.33	0.07	14.72	99.04	0.10	6.3	1.0	32	0.1	972.9	51.8	565	3.81	1.6	0.6	0.7	5.6	353	0.1	0.1	0.1	70
04-ARD-139-017	0.74	0.43	0.11	12.85	99.14	0.10	55.1	32.9	108	0.1	1174.5	72.1	1026	4.99	1.2	1.1	1.1	4.0	318	0.1	0.1	0.1	35
04-ARD-139-019	0.79	0.05	0.08	12.69	99.38	0.10	69.3	0.5	19	0.1	798.1	44.4	286	3.59	1.1	2.5	0.5	7.9	98	0.1	0.1	0.1	86
04-ARD-139-021	0.87	0.28	0.10	11.84	99.28	0.20	28.6	0.9	28	0.1	910.4	51.4	629	3.45	1.1	1.2	1.2	10.1	344	0.1	0.1	0.1	30
04-ARD-139-023	0.86	0.23	0.12	11.77	99.05	0.10	41.2	1.5	36	0.2	965.1	56.9	601	3.57	1.6	1.2	0.3	8.2	367	0.1	0.1	0.1	39
04-ARD-139-025	0.62	0.38	0.07	14.35	99.30	0.30	19.9	0.7	31	0.1	969.1	63.4	603	3.92	1.4	1.2	0.3	8.1	389	0.1	0.1	0.1	43
04-ARD-139-027	0.76	0.23	0.10	12.98	99.20	0.40	42.7	1.0	34	0.1	1058.6	61.4	668	3.88	1.7	2.1	0.8	8.9	386	0.1	0.1	0.1	46
04-ARD-139-029	0.95	0.43	0.09	14.60	98.87	0.20	29.7	2.1	30	0.1	1034.9	65.4	781	4.23	1.7	1.2	0.6	7.8	474	0.1	0.1	0.1	66
04-ARD-139-031	0.37	0.25	0.06	14.89	99.03	0.10	46.4	1.4	30	0.1	976.6	56.5	717	4.34	0.8	1.1	0.3	8.3	363	0.1	0.1	0.1	41
04-ARD-139-034	0.46	0.34	0.04	13.35	98.93	0.60	70.6	1.5	23	0.1	899.0	77.4	474	3.32	2.8	1.1	0.7	9.2	281	0.1	0.1	0.1	79
04-ARD-145-017	0.68	0.31	0.08	15.42	99.14	0.30	3.7	0.8	33	0.1	988.4	55.3	885	4.46	3.9	1.1	0.3	8.1	358	0.1	0.1	0.1	51
04-ARD-145-018	0.86	0.38	0.09	13.96	98.46	0.20	53.2	99.4	178	0.1	1147.6	70.8	1198	4.68	6.6	0.8	0.8	3.3	469	0.1	0.1	0.1	53
04-ARD-145-020	0.56	0.17	0.06	13.56	99.27	0.10	45.2	2.0	37	0.1	851.3	60.9	560	3.74	1.4	0.9	0.3	8.6	215	0.1	0.1	0.1	52
04-ARD-145-022	0.88	0.28	0.12	10.59	99.35	0.10	37.2	1.2	39	0.1	955.7	58.0	649	3.57	1.7	1.1	1.0	7.1	383	0.1	0.1	0.1	27
04-ARD-145-024	0.93	0.27	0.09	12.02	99.30	0.10	29.9	1.1	38	0.1	910.4	51.8	657	3.61	1.2	1.1	0.3	7.9	351	0.1	0.1	0.1	28
04-ARD-145-026	0.58	0.41	0.07	14.11	99.36	0.10	77.1	0.8	33	0.1	966.1	64.6	593	4.26	1.7	1.1	0.3	8.7	423	0.1	0.1	0.1	45
04-ARD-145-028	0.93	0.31	0.09	13.35	98.96	0.20	11.7	0.6	29	0.1	1063.6	68.9	764	3.93	1.5	1.1	0.3	7.9	472	0.1	0.1	0.1	46
04-ARD-145-030	0.81	0.43	0.08	13.73	98.99	0.10	1.2	1.2	37	0.1	946.9	57.0	697	4.02	0.9	0.9	0.3	5.7	422	0.1	0.1	0.1	62
04-ARD-145-032	0.99	0.34	0.13	11.97	98.80	0.20	45.5	10.7	50	0.1	1127.9	71.5	971	4.58	0.7	1.1	0.3	2.8	481	0.1	0.1	0.1	56
04-ARD-145-034	1.29	0.43	0.11	14.51	98.39	0.20	1.8	3.2	32	0.1	1119.2	83.0	1142	4.64	2.1	0.9	0.6	5.2	439	0.1	0.1	0.1	59
04-ARD-145-036	1.52	0.40	0.13	12.46	98.19	0.20	67.9	9.0	54	0.1	1093.4	70.2	1007	4.68	2.0	1.1	0.7	1.5	501	0.1	0.1	0.1	66
04-ARD-145-038	10.76	0.10	0.19	4.76	99.52	1.50	26.3	14.2	226	0.1	21.9	12.0	233	1.52	1.0	0.6	0.3	7.5	37	0.5	0.4	0.1	20
04-ARD-149-001	0.27	0.31	0.12	15.80	99.30	0.20	25.8	1.7	51	0.1	1162.1	81.3	934	4.64	6.3	0.8	0.3	5.1	175	0.1	0.1	0.1	45
04-ARD-149-003	0.20	0.34	0.10	16.23	99.12	0.30	1.8	1.4	40	0.1	1153.1	54.2	736	4.70	1.3	0.9	0.9	3.1	230	0.1	0.1	0.1	63
04-ARD-149-005	0.27	0.50	0.09	16.56	99.06	0.40	3.3	3.3	102	0.1	1280.7	57.0	945	4.91	1.2	0.8	0.3	1.4	141	0.1	0.1	0.1	41
04-ARD-149-007	0.11	0.10	0.12	17.12	98.82	0.20	35.7	7.3	47	0.1	1267.2	81.7	1184	4.90	1.3	0.7	0.3	2.6	144	0.1	0.1	0.1	52
04-ARD-149-009	0.56	0.37	0.11	13.42	98.94	0.30	44.7	12.5	43	0.1	1302.0	83.8	1069	4.88	1.7	1.3	0.3	0.9	202	0.1	0.1	0.1	84
04-ARD-149-011	0.23	0.18	0.14	16.04	98.76	0.40	53.6	8.6	48	0.1	1344.1	91.4	1145	5.40	1.9	0.9	1.1	1.2	234	0.1	0.1	0.1	66
04-ARD-149-013	0.40	0.54	0.15	15.61	98.93	0.20	24.8	8.5	99	0.1	1521.3	104.2	1556	5.56	3.2	1.5	0.5	1.0	320	0.1	0.1	0.1	74
04-ARD-180-041	0.95	0.34	0.14	9.22	98.84	0.50	43.5	9.6	46	0.1	1055.5	70.5	904	4.54	0.7	1.0	0.3	2.0	786	0.1	0.1	0.1	43
04-ARD-180-043	1.26	0.33	0.12	9.68	98.65	0.30	60.8	10.7	49	0.1	1158.7	74.7	962	4.97	1.1	0.9	0.3	1.9	505	0.1	0.1	0.1	54
04-ARD-234-023	1.02	0.37	0.13	11.10	98.44	0.20	50.4	15.6	54	0.1	1170.4	64.0	1216	4.47	0.9	1.0	0.8	2.3	595	0.1	0.1	0.1	47
04-ARD-234-024	1.01	0.38	0.13	9.61	99.16	0.30	45.7	9.4	45	0.1	1252.2	70.7	961	4.71	0.3	1.0	0.5	2.0	400	0.1	0.1	0.1	36
04-ARD-234-025	1.09	0.34	0.12	9.51	98.93	0.40	51.4	10.4	46	0.1	1185.6	68.4	928	4.52	0.5	1.1	0.3	2.2	565	0.1	0.1	0.1	38
04-ARD-234-026	1.05	0.34	0.12	9.52	98.52	0.30	45.6	9.9	45	0.1	1141.3	66.2	899	4.32	1.0	0.9	0.3	2.3	1071	0.1	0.1	0.1	50
04-ARD-234-027	0.82	0.31	0.11	10.35	98.98	0.20	47.9	9.1	46	0.1	1149.4	66.3	843	4.12	0.5	1.0	0.6	2.8	849	0.1	0.1	0.1	30
04-ARD-234-028	0.82	0.31	0.12	9.78	98.88	0.30	49.3	13.8	50	0.1	1083.8	67.0	976	4.37	0.8	1.2	1.3	6.2	2497	0.1	0.1	0.1	44
04-ARD-234-029	0.80	0.33	0.12	9.86	98.84	0.30	48.5	10.7	45	0.1	1067.6	65.2	889	3.91	1.4	0.9	0.3	2.4	1148	0.1	0.1	0.1	35
04-ARD-234-030	1.11	0.34	0.13	9.02	98.97	0.70	50.6	11.8	51	0.1	1182.6	77.1	1057	4.69	1.7	1.3	1.6	2.4	512	0.1	0.1	0.1	66
04-ARD-234-031	0.98	0.34	0.13	9.21	99.17	0.30	54.3	11.8	51	0.1	1112.3	74.5	1043	4.60	1.1	1.0	0.3	1.9	498	0.1	0.1	0.1	49
04-ARD-234-032	0.99	0.46	0.12	8.82	99.03	0.50	62.3	11.7	51	0.1	1136.7	72.2	1021	4.56	0.9	1.0	0.3	1.9	581	0.1	0.1	0.1	42
04-ARD-234-033	0.69	0.23	0.11	11.22	99.14	0.30	45.4	11.6	44	0.1	1010.1	63.0	705	3.28	1.3	1.1	0.3	6.7	449	0.1	0.1	0.1	25
04-ARD-234-034	1.02	0.10	0.09	10.93	99.05	0.20	52.4	9.3	40	0.1	768.7	45.7	574	2.64	10.2	1.4	0.8	8.8	196	0.1	0.2	0.1	84
04-ARD-234-035	0.75	0.17	0.09	12.07	99.59	0.20	28.2	0.9	35	0.1	799.6	48.0	442	2.78	4.2	1.3	1.3	9.8	174	0.1	0.1	0.1	60
04-ARD-234-036	0.69	0.10	0.12	12.01	99.42	0.30	50.7	1.5	32	0.1	914.6	53.1	528	3.20	1.3	1.5	1.7	11.8	228	0.1	0.1	0.1	34
04-ARD-234-037	0.50	0.20	0.07	13.39	99.58	0.10	51.1	0.8	26	0.1	869.1	50.8	463	3.29	1.4	1.0	0.3	13.4	300	0.1	0.1	0.1	52
04-ARD-234-038	0.62	0.25	0.06	13.40	99.61	0.20	55.8	2.8	32	0.2	857.4	69.5	458	3.26	2.2	4.8	0.7	8.4	269	0.1	0.1	0.1	58
04-ARD-234-039	1.00	0.31	0.09	13.18	99.01	0.20	21.8	1.1	30	0.1	916.3	58.2	488	3.53	1.2	1.0	1.4	10.3	371	0.1	0.1	0.1	62
04-ARD-121-025	2.16	0.28	0.05	13.76	98.89	1.20	9.0	50.9	20	0.1	578.6	39.4	343	2.15	1.3	0.9	0.8	8.3	249	0.1	3.3	0.1	32
04-ARD-121-027	4.21	0.11	0.10	7.69	99.42	1.70	24.9	2.5	26	0.1	290.1	25.7	192	1.91	1.3	1.4	0.8	27.5	132	0.1	0.1	0.1	25
04-ARD-121-029	3.58	0.20	0.08	12.11	98.97	1.10	29.5	1.8	25	0.1	579.0	37.6	214	2.51	0.9	0.9	0.3	13.8	193	0.1	0.1	0.1	35
04-ARD-121-031	3.74	0.17	0.08	11.21	98.95	87.80	12.4	3.1	24	0.1	423.3	28.9	248	2.15	1.1	0.8	1.5	12.2	164	0.1	0.1	0.1	29
04-ARD-121-033	3.88	0.15	0.09	9.18	99.21	1.90	20.5	2.3	18	0.1	451.8	26.8	151	2.18	1.2	1.1	1.3	21.0	161	0.1	0.1	0.1	31
04-ARD-121-035	3.32	0.20	0.09	10.06	99.07	1.80	22.2	1.8	30	0.1	477.3	34.4	183	2.40	2.0	0.9	1.1	12.4	180	0.1	0.1	0.1	37
04-ARD-121-037	3.56	0.23	0.09	10.96	99.15	1.90	23.6	1.8	21	0.1	474.9	31.4	177	2.19	1.0	1.0	0.3	12.8	195	0.1	0.1	0.1	33
04-ARD-121-039	3.63	0.15	0.07	11.06	98.74	2.30	33.6	2.9	24	0.1	510.1	38.9	242	2.39	1.7	1.1	1.0	20.6	155	0.1	0.1	0.1	34
04-ARD-121-040	4.11	0.15	0.08	7.13	99.21	2.00	12.2	2.5	30	0.1	340.0	25.3	217	2.08	1.1	0.7	1.0	15.5	112	0.1	0.1	0.1	35
04-ARD-121-041	3.93	0.18	0.07	8.73	99.39	2.00	11.8	2.6	24	0.1	385.4	27.1	196	1.98	2.0	0.8	0.6	16.0	150	0.1	0.1	0.1	26
04-ARD-121-042	3.79	0.15	0.07	6.61	99.43	2.30	19.2	3.0	30	0.1	290.5	21.0	204	1.84	1.2	0.8	0.6	12.1	91	0.1	0.1	0.1	28
04-ARD-121-043	4.05	0.14	0.09	7.15	99.14	1.80	12.8	2.3	26	0.1	299.4	22.2	177	1.93	0.7	0.7	0.3	8.0	104	0.1	0.1	0.1	30
04-ARD-121-044	3.17	0.18	0.07	9.35	99.49	1.20	11.8	2.0	31	0.1	354.6	25.6	181	2.04	1.3	0.8	0.6	13.6	152	0.1	0.1	0.1	31
04-ARD-121-045	4.26	0.15	0.10	8.98	99.16	1.50	14.6	3.1	38	0.1	381.8	27.7	221	2.06	1.4	0.8	1.2	16.8	187	0.1	0.1	0.1	64
04-ARD-142-043	0.93	0.82	0.03	14.18	99.00	0.30	2.7	3.7	28	0.1	908.5	53.1	410	3.84	2.3	1.5	0.3	8.5	649	0.1	0.1	0.1	57
04-ARD-152-001	2.54	0.25	0.06	13.34	98.99	1.20	30.1	3.0	15	0.1	552.4	38.9	143	2.18	1.2	0.9	0.3	15.0	168	0.1	0.1	0.1	31
04-ARD-152-003	2.51	0.28	0.06	12.50	99.08	5.20	21.4	4.4	16	0.1	552.1	37.1	158	2.45	1.1	1.0	0.3	12.1	193	0.1	0.1	0.1	36
04-ARD-152-005	1.88	0.28	0.06	14.07	99.06	0.60	43.3	2.2	26	0.1	634.8	33.9	235	3.06	1.4	0.9	0.3	10.9	191	0.1	0.1	0.1	32
04-ARD-152-007	3.70	0.28	0.10	16.27	99.11	0.60	12.2	3.9	26	0.1	684.0	29.2	314	3.03	1.8	1.1	0.3	11.6	322	0.1	0.1	0.1	46
04-ARD-181-002	0.61	0.41	0.10	13.57	99.09	0.10	54.0	1.4	29	0.1	1150.0	71.0	726	4.43	1.4	1.6	0.3	9.5	497	0.1	0.1	0.1	27
04-ARD-181-004	0.46	0.37	0.08	13.22	99.63	0.10	38.3	0.8	29	0.1	757.8	55.7	513	3.69	1.2	1.3	0.7	7.2	413	0.1	0.1	0.1	32
04-ARD-181-006	0.51	0.31	0.06	12.75	99.65	0.10	148.2	1.5	31	0.1	752.5	57.0	452	3.98	4.9	1.0	0.3	8.6	337	0.1	0.1	0.1	123
04-ARD-181-008	0.15	0.20	0.03	13.84	99.31	0.10	31.6	9.0	46	0.1	674.1	47.1	1041	3.19	4.6	1.3	0.3	8.4	253	0.1	0.5	0.1	61
04-ARD-181-010	1.45	0.38	0.13	10.64	99.13	0.10	46.3	9.7	44	0.1	1145.0	75.9	1045	5.00	1.2	1.3	0.3	1.0	478	0.1	0.1	0.1	36
04-ARD-181-012	1.01	0.37	0.16	8.38	99.14	0.50	60.8	33.9	53	0.1	1260.3	78.9	1144	5.57	1.5	1.9	2.8	0.6	361	0.1	1.2	0.1	75
04-ARD-181-014	1.47	0.37	0.13	8.17	98.69	0.80	42.2	10.3	47	0.1	1260.5	78.7	1035	4.88	1.5	1.3	0.5	0.6	352	0.1	0.1	0.1	67
04-ARD-181-016	1.08	0.28	0.10	9.85	98.79	0.30	37.8	11.2	48	0.1	1180.1	76.5	1074	5.05	2.5	1.4	0.6	3.6	383	0.1	0.1	0.1	46
04-ARD-181-018	1.15	0.25	0.16	10.21	98.82	0.30	50.7	11.8	53	0.1	1236.5	78.7	1104	5.35	1.3	1.6	1.6	0.9	288	0.1	0.1	0.1	80
04-ARD-186-002	0.82	0.43	0.03	14.18	99.61	0.40	96.9	1.6	20	0.1	596.5	37.3	248	3.18	0.8	0.7	0.3	10.7	190	0.1	0.1	0.1	51
04-ARD-186-004	0.28	0.47	0.02	15.50	99.78	0.40	5.6	2.1	14	0.1	696.0	53.6	266	2.92	1.1	1.0	0.3	10.9	215	0.1	0.1	0.1	34
04-ARD-186-006	0.58	0.55	0.06	14.80	99.63	0.20	56.0	0.8	17	0.1	629.4	40.4	193	2.95	0.5	0.6	0.3	11.1	269	0.1	0.1	0.1	29
04-ARD-186-010	0.55	0.20	0.03	14.59	99.88	0.20	26.0	1.1	18	0.1	791.7	45.4	213	3.16	0.8	0.5	0.3	10.3	209	0.1	0.1	0.1	34
04-ARD-190-001	4.76	0.02	0.08	0.69	99.43	5.30	2.8	9.5	24	0.1	3.1	2.6	76	1.03	0.3	1.0	0.3	28.2	5	0.1	0.5	0.1	10
04-ARD-190-002	4.84	0.10	0.08	0.73	99.38	4.20	3.0	7.8	23	0.1	2.5	2.4	93	1.02	0.3	0.8	0.6	30.0	7	0.1	0.5	0.1	10
04-ARD-190-003	4.75	0.07	0.09	0.73	99.46	5.80	3.0	9.3	23	0.1	3.1	2.9	103	1.10	0.6	0.7	0.3	30.7	6	0.1	0.6	0.1	12
04-ARD-190-004	6.36	0.05	0.12	0.62	99.32	6.60	1.7	8.8	19	0.1	2.1	2.8	83	1.09	0.3	0.8	0.3	30.6	7	0.1	0.6	0.1	19
04-ARD-190-005	4.61	0.10	0.08	1.15	99.49	4.60	3.6	13.9	34	0.1	3.4	3.7	147	1.38	0.6	0.9	0.3	42.2	8	0.1	0.5	0.1	18
04-ARD-190-006	0.50	0.18	0.02	12.89	99.75	0.05	32.2	0.9	16	0.1	781.8	49.2	222	3.06	0.6	1.0	0.3	10.5	174	0.1	0.1	0.1	31
04-ARD-190-008	0.21	0.43	0.02	13.10	99.47	0.10	51.5	1.7	17	0.1	660.9	38.8	199	2.74	0.6	0.6	0.7	12.3	243	0.1	0.1	0.1	29
04-ARD-190-010	0.46	0.10	0.01	13.32	99.51	0.05	6.6	0.7	17	0.1	705.9	41.7	245	2.61	0.5	0.7	0.3	10.0	134	0.1	0.1	0.1	31
04-ARD-190-012	0.97	0.15	0.09	10.75	99.14	0.10	33.6	2.1	37	0.2	993.9	60.9	693	3.52	1.7	1.8	0.3	10.4	288	0.1	0.1	0.1	18
04-ARD-190-014	0.83	0.12	0.04	12.13	99.50	0.10	104.2	1.8	29	0.1	824.9	56.4	426	2.82	0.6	1.5	0.3	12.4	193	0.1	0.1	0.1	31
04-ARD-190-016	0.52	0.20	0.05	13.89	99.80	0.10	31.5	1.0	27	0.1	734.7	39.6	276	2.91	0.5	1.0	0.9	10.9	265	0.1	0.1	0.1	37
04-ARD-193-002	0.70	0.11	0.07	13.98	99.33	0.10	33.9	0.7	34	0.1	1044.8	62.8	655	4.19	2.7	2.1	1.6	10.3	205	0.1	0.1	0.1	67
04-ARD-193-004	0.07	0.41	0.02	16.34	99.33	0.30	0.6	0.6	18	0.1	1105.9	52.0	720	4.62	1.4	0.5	1.0	2.4	113	0.1	0.1	0.1	46
04-ARD-193-006	0.75	0.36	0.10	11.59	99.56	0.10	26.1	1.0	35	0.1	984.3	60.4	598	3.82	0.5	1.5	0.5	7.8	485	0.1	0.1	0.1	31
04-ARD-193-008	0.36	0.25	0.05	17.06	99.14	0.10	12.1	2.5	38	0.1	1402.7	68.8	895	5.55	0.6	0.5	0.3	1.6	142	0.1	0.1	0.1	38
04-ARD-193-010	1.58	0.46	0.12	11.51	98.40	0.20	52.0	12.7	45	0.1	1137.6	75.1	1025	5.02	1.3	1.7	0.9	0.6	353	0.1	0.1	0.1	78
04-ARD-193-012	0.81	0.34	0.06	12.59	99.08	0.10	44.7	13.5	45	0.1	950.6	60.0	895	4.47	2.7	1.5	1.8	5.5	308	0.1	0.1	0.1	50
04-ARD-193-014	1.49	0.44	0.14	8.28	98.60	0.40	52.7	12.6	47	0.1	1177.8	75.7	1122	5.02	1.5	1.4	1.6	0.7	415	0.1	0.1	0.1	68
04-ARD-193-016	0.30	0.37	0.01	15.31	99.76	0.30	9.6	15.4	32	0.1	1204.2	79.6	1219	4.59	0.8	1.2	0.3	8.9	182	0.1	0.1	0.1	11
04-ARD-196-002	2.19	0.21	0.05	13.96	99.29	0.90	16.0	1.8	19	0.1	565.1	29.3	230	2.42	0.6	0.8	1.2	11.7	145	0.1	0.1	0.1	30
04-ARD-196-004	1.62	0.28	0.04	14.64	99.49	1.70	20.6	3.5	21	0.1	569.5	39.8	231	2.54	0.7	0.9	0.3	12.6	197	0.1	0.1	0.1	30
04-ARD-196-006	1.60	0.33	0.05	15.28	99.43	1.40	43.0	2.8	28	0.1	677.7	48.9	214	2.70	1.1	1.0	0.5	11.2	223	0.1	0.1	0.1	35
04-ARD-196-008	1.87	0.23	0.05	15.01	99.32	0.60	26.5	2.3	26	0.1	643.2	45.1	240	2.91	0.7	1.1	0.3	12.0	220	0.1	0.1	0.1	33
04-ARD-196-010	1.26	0.20	0.03	14.85	99.70	0.50	39.3	2.5	18	0.1	632.9	49.0	200	3.16	0.8	0.8	0.3	15.0	111	0.1	0.1	0.1	30
04-ARD-200-036	0.81	0.14	0.04	13.71	99.52	0.30	40.5	1.1	21	0.1	759.0	36.5	245	2.99	4.1	0.8	9.5	10.2	220	0.1	0.2	0.1	36
04-ARD-164-009	1.13	0.46	0.12	10.30	98.84	0.20	70.8	13.6	50	0.1	1136.7	72.5	1034	4.75	1.0	1.4	0.8	2.4	710	0.1	0.1	0.1	57
04-ARD-164-011	1.07	0.43	0.12	10.89	98.84	0.40	54.5	13.3	56	0.1	1300.4	79.2	1243	5.69	1.3	1.4	0.5	1.1	618	0.1	0.1	0.1	76
04-ARD-164-013	1.50	0.43	0.15	8.65	98.19	0.40	57.8	13.9	50	0.1	1317.3	81.2	1241	5.64	4.6	1.8	0.8	0.5	357	0.1	0.1	0.1	76
04-ARD-171-001	0.80	0.37	0.10	13.07	98.92	0.20	44.6	1.8	38	0.1	1373.5	81.1	1111	5.27	1.2	1.3	1.8	7.7	501	0.1	0.1	0.1	51
04-ARD-164-005	0.43	0.25	0.07	13.55	99.44	0.10	54.5	0.9	30	0.1	815.7	68.2	618	3.95	1.0	1.5	0.9	7.8	393	0.1	0.1	0.1	36
04-ARD-164-007	0.56	0.40	0.07	13.27	99.64	0.10	36.4	0.9	28	0.1	832.5	49.8	490	3.54	3.5	1.4	1.5	8.5	367	0.1	0.1	0.1	52
04-ARD-171-003	0.40	0.14	0.03	15.31	99.57	0.05	24.1	0.9	18	0.1	714.1	36.6	261	2.87	0.6	0.7	1.4	9.5	166	0.1	0.1	0.1	35
04-ARD-171-009	0.47	0.15	0.03	14.86	99.54	0.20	36.1	1.4	21	0.1	702.6	47.0	310	3.34	0.7	1.1	0.3	12.9	158	0.1	0.1	0.1	43
04-ARD-171-011	1.12	0.15	0.08	13.18	99.14	0.10	23.3	0.6	28	0.1	710.0	47.1	332	3.38	0.6	1.1	0.8	9.1	233	0.1	0.1	0.1	23
04-ARD-171-013	0.56	0.31	0.04	14.47	99.62	0.10	29.8	1.1	23	0.1	716.7	44.0	290	3.06	0.3	1.2	0.3	10.4	270	0.1	0.1	0.1	37
04-ARD-171-015	0.91	0.18	0.06	13.64	99.29	0.20	32.7	1.6	37	0.1	690.9	38.1	348	3.36	0.3	1.2	0.9	14.8	248	0.1	0.1	0.1	33
04-ARD-171-017	1.04	0.23	0.04	13.36	99.25	0.10	43.8	1.3	24	0.1	646.4	41.3	285	2.82	0.5	1.1	0.7	10.7	162	0.1	0.1	0.1	39
04-ARD-171-019	0.56	0.28	0.10	13.86	99.34	0.20	45.8	9.5	23	0.1	720.6	58.9	299	2.97	0.8	0.8	1.4	9.2	289	0.1	0.1	0.1	35
04-ARD-171-021	1.25	0.17	0.06	12.92	99.08	0.20	35.6	1.5	29	0.1	639.1	39.0	279	2.89	0.6	1.1	1.0	11.6	247	0.1	0.1	0.1	36
04-ARD-171-023	1.10	0.12	0.03	12.64	99.25	0.10	30.2	1.3	31	0.1	687.6	36.5	312	3.13	0.7	1.2	0.8	9.4	194	0.1	0.1	0.1	38
04-ARD-171-025	0.58	0.21	0.09	12.84	99.46	0.10	37.5	0.7	30	0.1	729.7	46.3	378	3.23	1.0	1.3	1.3	10.6	249	0.1	0.1	0.1	36
04-ARD-157-002	2.56	0.37	0.08	12.30	99.00	1.10	26.5	32.2	17	0.1	466.7	33.1	162	2.31	1.0	1.0	1.4	15.9	186	0.1	0.1	0.1	40
04-ARD-157-004	2.21	0.36	0.05	13.21	99.29	0.50	3.8	6.9	20	0.1	671.8	42.0	203	4.37	1.5	1.6	1.6	11.7	254	0.1	0.1	0.1	36
04-ARD-157-006	2.38	0.23	0.06	14.81	99.33	0.60	45.7	1.9	16	0.1	692.1	43.9	156	2.95	0.7	1.1	1.2	11.1	229	0.1	0.1	0.1	34
04-ARD-157-008	3.00	0.15	0.12	14.39	99.12	1.00	25.9	7.6	20	0.1	599.3	37.2	160	2.54	0.7	1.1	1.4	12.0	159	0.1	0.1	0.1	29
04-ARD-157-010	2.88	0.37	0.09	14.42	99.06	0.60	4.4	2.2	27	0.1	623.6	33.1	184	2.52	1.2	1.0	1.4	14.0	225	0.1	0.1	0.1	33

Sample ID	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	Ga	Se
	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
04-ARD-132-005	0.95	0.145	51	137.8	7.81	588	0.073	19	2.09	0.042	0.57	0.1	0.01	3.0	0.2	6	0.25
04-ARD-132-007	0.92	0.088	80	262.3	9.40	584	0.082	14	2.32	0.076	0.85	0.05	0.01	4.3	0.1	8	0.25
04-ARD-132-009	0.89	0.144	85	232.4	9.38	618	0.101	32	2.09	0.082	1.32	0.05	0.01	5.6	0.1	6	0.25
04-ARD-132-011	0.78	0.095	73	187.9	10.14	627	0.083	26	2.35	0.077	1.24	0.05	0.01	4.6	0.1	6	0.25
04-ARD-132-013	0.83	0.099	88	333.0	10.37	658	0.081	53	2.22	0.097	1.32	0.05	0.01	5.6	0.1	7	0.25
04-ARD-132-015	0.92	0.118	69	205.1	10.32	550	0.076	49	2.43	0.086	1.15	0.05	0.01	4.7	0.1	7	0.25
04-ARD-132-017	0.68	0.157	87	358.7	12.13	774	0.082	177	2.26	0.102	1.37	0.05	0.01	7.0	0.1	6	0.25
04-ARD-139-010	2.18	0.098	67	240.3	9.07	327	0.080	13	3.09	0.027	0.42	0.1	0.01	5.1	0.1	14	0.25
04-ARD-139-011	1.98	0.096	67	225.0	11.19	283	0.049	7	3.40	0.031	0.41	0.05	0.01	5.2	0.1	12	0.25
04-ARD-139-013	0.85	0.080	87	302.1	11.41	558	0.069	18	2.07	0.039	0.68	0.05	0.01	4.8	0.1	6	0.25
04-ARD-139-015	0.63	0.141	74	337.9	13.45	654	0.061	62	1.89	0.032	0.71	0.05	0.01	6.7	0.1	6	0.25
04-ARD-139-017	1.03	0.149	32	367.8	16.04	954	0.108	340	1.39	0.044	0.90	0.05	0.01	8.0	0.1	5	0.25
04-ARD-139-019	0.45	0.025	81	392.7	10.68	643	0.127	35	2.22	0.051	0.82	0.05	0.01	4.3	0.1	17	0.25
04-ARD-139-021	0.59	0.104	75	264.3	11.70	755	0.067	162	2.12	0.097	0.82	0.05	0.01	3.5	0.1	6	0.25
04-ARD-139-023	0.52	0.093	60	277.3	13.26	872	0.081	272	1.72	0.049	0.92	0.05	0.01	2.6	0.1	5	0.25
04-ARD-139-025	0.70	0.149	67	299.4	13.11	618	0.061	109	1.77	0.042	0.67	0.05	0.01	5.8	0.1	6	0.25
04-ARD-139-027	0.62	0.103	76	302.4	13.59	810	0.063	181	2.11	0.126	0.80	0.05	0.01	4.3	0.1	7	0.25
04-ARD-139-029	1.02	0.183	86	371.1	14.38	865	0.089	110	1.92	0.057	1.24	0.05	0.01	7.6	0.1	6	0.25
04-ARD-139-031	1.40	0.112	56	318.8	14.52	539	0.063	176	1.57	0.086	0.38	0.05	0.01	6.1	0.1	5	0.25
04-ARD-139-034	1.03	0.133	77	273.8	13.42	389	0.130	91	1.39	0.043	0.57	0.05	0.01	5.1	0.1	9	0.25
04-ARD-145-017	0.88	0.126	71	351.2	13.55	712	0.063	167	1.43	0.031	0.79	0.05	0.01	7.9	0.1	5	0.25
04-ARD-145-018	0.65	0.133	32	350.0	16.18	765	0.102	545	1.57	0.026	1.09	0.05	0.01	8.7	0.1	5	0.25
04-ARD-145-020	0.33	0.062	72	370.7	14.19	452	0.083	236	2.10	0.045	0.54	0.05	0.01	6.8	0.1	6	0.25
04-ARD-145-022	0.48	0.106	58	249.2	11.92	823	0.077	319	2.45	0.326	0.64	0.05	0.01	2.1	0.1	6	0.25
04-ARD-145-024	0.52	0.115	70	253.8	12.24	654	0.065	219	2.40	0.238	0.70	0.05	0.01	4.0	0.1	7	0.25
04-ARD-145-026	0.68	0.170	77	295.7	13.13	650	0.059	162	2.16	0.049	0.69	0.05	0.01	7.4	0.1	8	0.25
04-ARD-145-028	0.54	0.113	83	317.9	11.63	660	0.056	204	1.75	0.042	0.96	0.05	0.01	6.8	0.1	5	0.25
04-ARD-145-030	0.65	0.154	45	309.7	14.22	629	0.084	277	1.67	0.051	0.89	0.05	0.01	7.4	0.1	6	0.25
04-ARD-145-032	1.94	0.126	33	366.0	13.06	935	0.092	106	1.82	0.366	1.08	0.05	0.01	6.1	0.1	5	0.25
04-ARD-145-034	1.25	0.166	67	413.2	14.46	908	0.075	253	1.42	0.041	1.53	0.05	0.01	8.3	0.2	5	0.25
04-ARD-145-036	1.48	0.148	18	297.9	14.57	902	0.078	234	1.28	0.035	1.39	0.1	0.01	7.7	0.1	4	0.25
04-ARD-145-038	0.72	0.052	58	29.4	1.49	78	0.072	19	1.09	0.020	0.41	0.2	0.01	2.2	0.2	9	0.25
04-ARD-149-001	0.36	0.086	47	460.4	18.08	990	0.066	503	1.83	0.022	0.38	0.05	0.01	8.0	0.1	5	0.25
04-ARD-149-003	0.43	0.124	27	606.3	17.73	738	0.082	698	0.95	0.031	0.32	0.1	0.01	8.5	0.1	3	0.25
04-ARD-149-005	0.65	0.188	11	764.6	19.41	726	0.114	549	0.97	0.025	0.43	0.1	0.01	9.0	0.1	3	0.25
04-ARD-149-007	2.06	0.041	18	779.5	17.94	881	0.135	307	0.71	0.028	0.20	0.1	0.01	8.4	0.1	3	0.25
04-ARD-149-009	2.03	0.149	9	545.3	17.75	921	0.084	267	0.91	0.026	0.77	0.05	0.01	8.5	0.1	3	0.25
04-ARD-149-011	1.44	0.074	13	796.4	17.68	1231	0.145	308	0.75	0.036	0.35	0.1	0.01	8.6	0.2	3	0.25
04-ARD-149-013	0.81	0.202	10	667.2	18.29	1286	0.136	381	0.72	0.052	0.59	0.1	0.01	8.7	0.1	3	0.25
04-ARD-180-041	2.68	0.149	27	273.7	13.56	1043	0.086	0.5	1.69	0.741	1.16	0.05	0.01	5.7	0.2	5	0.25
04-ARD-180-043	2.31	0.131	23	328.3	13.76	927	0.088	12	1.74	0.411	1.49	0.05	0.01	5.2	0.4	6	0.25
04-ARD-234-023	2.05	0.136	23	247.1	13.75	877	0.099	1747	1.90	0.139	1.22	0.05	0.01	7.6	0.1	6	0.25
04-ARD-234-024	2.73	0.149	27	259.3	14.66	907	0.094	1	1.51	0.693	1.23	0.05	0.01	6.6	0.1	5	0.25
04-ARD-234-025	2.87	0.138	28	285.3	13.87	899	0.100	1	1.48	0.744	1.30	0.05	0.01	6.8	0.2	5	0.25
04-ARD-234-026	2.79	0.130	27	269.6	13.19	820	0.092	2	1.58	0.814	1.16	0.05	0.01	6.1	0.2	5	0.25
04-ARD-234-027	1.94	0.123	26	248.0	12.71	772	0.069	1	1.54	0.576	0.90	0.05	0.01	3.8	0.1	5	0.25
04-ARD-234-028	3.05	0.138	35	286.2	12.74	1109	0.098	0.5	2.18	0.886	0.92	0.05	0.01	5.4	0.2	5	0.25
04-ARD-234-029	2.58	0.142	27	267.3	12.26	1041	0.063	0.5	1.75	0.745	0.81	0.05	0.01	3.8	0.1	5	0.25
04-ARD-234-030	3.37	0.151	34	381.6	14.30	1336	0.117	4	1.48	0.846	1.31	0.1	0.01	8.0	0.2	5	0.25
04-ARD-234-031	3.74	0.155	30	370.9	13.40	1203	0.110	1	1.65	0.941	1.13	0.05	0.01	7.7	0.2	5	0.25
04-ARD-234-032	2.93	0.157	28	364.3	13.48	1136	0.099	2	1.82	0.694	1.11	0.05	0.01	6.1	0.2	6	0.25
04-ARD-234-033	1.43	0.109	45	224.5	10.95	1008	0.093	100	1.92	0.175	0.72	0.05	0.01	1.4	0.1	6	0.25
04-ARD-234-034	0.64	0.048	35	174.2	11.27	697	0.077	126	2.20	0.237	0.74	0.1	0.01	2.0	0.1	6	0.25
04-ARD-234-035	0.63	0.040	81	227.7	10.42	720	0.073	102	2.14	0.107	0.72	0.05	0.01	2.2	0.1	6	0.25
04-ARD-234-036	0.57	0.050	69	235.5	11.45	921	0.080	138	2.04	0.102	0.61	0.05	0.01	2.1	0.1	6	0.25
04-ARD-234-037	0.63	0.079	68	255.5	11.90	604	0.047	106	2.11	0.067	0.46	0.05	0.01	5.0	0.1	7	0.25
04-ARD-234-038	0.67	0.102	72	273.9	11.58	559	0.064	58	2.44	0.160	0.64	0.05	0.01	6.1	0.1	7	0.25
04-ARD-234-039	0.79	0.127	71	316.0	11.59	893	0.096	40	2.01	0.057	1.18	0.05	0.01	6.6	0.1	7	0.25
04-ARD-121-025	2.29	0.118	34	156.8	5.80	174	0.028	3	1.55	0.048	0.37	0.05	0.01	3.6	0.1	7	0.25
04-ARD-121-027	0.76	0.054	50	83.8	4.38	92	0.021	1	1.17	0.056	0.21	0.1	0.01	2.2	0.1	5	0.25
04-ARD-121-029	0.97	0.085	42	119.0	7.08	122	0.029	5	1.56	0.095	0.33	0.05	0.01	3.3	0.1	7	0.25
04-ARD-121-031	1.18	0.072	38	94.6	6.26	118	0.030	4	1.41	0.098	0.34	0.1	0.01	2.8	0.1	5	0.25
04-ARD-121-033	0.69	0.066	49	99.3	6.05	115	0.023	4	1.34	0.065	0.28	0.1	0.01	2.8	0.1	5	0.25
04-ARD-121-035	0.77	0.082	44	106.5	6.45	131	0.048	6	1.44	0.077	0.36	0.1	0.01	3.1	0.1	6	0.25
04-ARD-121-037	0.88	0.081	43	107.8	6.86	129	0.031	4	1.49	0.073	0.30	0.05	0.01	3.1	0.1	5	0.25
04-ARD-121-039	0.91	0.063	43	142.5	6.75	123	0.036	4	1.55	0.125	0.37	0.1	0.01	3.9	0.1	7	0.25
04-ARD-121-040	0.59	0.043	37	96.2	4.59	71	0.040	1	1.31	0.096	0.30	0.05	0.01	3.0	0.1	7	0.25
04-ARD-121-041	0.74	0.077	39	100.1	5.53	111	0.039	3	1.28	0.147	0.32	0.1	0.01	2.5	0.1	5	0.25
04-ARD-121-042	0.64	0.064	34	59.4	4.21	63	0.041	4	1.17	0.161	0.22	0.05	0.01	2.2	0.1	6	0.25
04-ARD-121-043	0.55	0.061	27	81.8	3.12	78	0.034	2	1.22	0.078	0.27	0.1	0.01	2.3	0.1	5	0.25
04-ARD-121-044	0.74	0.068	37	89.2	6.00	84	0.047	5	1.39	0.095	0.34	0.1	0.01	3.0	0.1	5	0.25
04-ARD-121-045	0.87	0.071	29	75.5	5.05	198	0.045	1	1.63	0.056	0.40	0.05	0.01	2.6	0.1	6	0.25
04-ARD-142-043	1.17	0.295	79	293.7	10.08	307	0.044	72	1.32	0.127	0.85	0.05	0.01	6.6	0.3	5	0.25
04-ARD-152-001	1.05	0.091	53	150.5	7.93	175	0.025	7	2.10	0.091	0.29	0.05	0.01	3.9	0.1	8	0.25
04-ARD-152-003	1.02	0.115	60	138.4	8.11	196	0.038	7	2.16	0.096	0.34	0.05	0.01	3.0	0.1	8	0.25
04-ARD-152-005	0.96	0.110	63	163.0	9.78	334	0.069	27	2.57	0.139	0.90	0.1	0.01	3.6	0.1	7	0.25
04-ARD-152-007	1.86	0.156	76	187.2	8.67	416	0.056	5	2.23	0.065	0.92	0.1	0.01	4.5	0.1	7	0.25
04-ARD-181-002	0.72	0.171	59	361.6	13.45	655	0.033	145	1.51	0.044	0.64	0.05	0.01	6.9	0.1	5	0.25
04-ARD-181-004	0.43	0.111	58	274.6	13.06	486	0.034	123	1.58	0.038	0.46	0.05	0.01	5.3	0.1	5	0.25
04-ARD-181-006	0.55	0.132	73	268.7	12.36	528	0.102	87	1.68	0.040	0.69	0.05	0.01	6.6	0.1	6	0.25
04-ARD-181-008	0.41	0.082	37	281.4	18.78	237	0.093	333	1.29	0.020	0.20	0.05	0.01	5.9	0.1	4	0.25
04-ARD-181-010	3.15	0.162	18	309.1	14.33	943	0.073	94	1.39	0.292	1.79	0.05	0.01	8.0	0.1	4	0.25
04-ARD-181-012	4.66	0.164	10	267.0	15.01	1396	0.124	11	1.43	0.221	1.43	0.1	0.01	10.1	0.2	4	0.5
04-ARD-181-014	4.15	0.149	12	271.7	15.27	1127	0.094	3	1.33	0.142	1.95	0.1	0.01	8.6	0.2	5	0.25
04-ARD-181-016	3.86	0.120	20	338.4	14.55	874	0.090	2	1.31	0.299	1.38	0.1	0.01	7.8	0.2	4	0.25
04-ARD-181-018	3.83	0.109	8	395.4	15.34	1434	0.107	72	1.26	0.033	1.62	0.1	0.01	9.0	0.2	4	0.25
04-ARD-186-002	1.12	0.170	56	182.4	9.69	107	0.029	9	2.98	0.039	0.16	0.05	0.01	4.6	0.1	8	0.25
04-ARD-186-004	1.37	0.193	57	252.8	9.38	168	0.035	8	2.46	0.039	0.28	0.05	0.01	3.2	0.1	7	0.25
04-ARD-186-006	1.00	0.191	60	283.9	9.40	321	0.046	7	2.36	0.068	0.42	0.05	0.01	3.5	0.1	9	0.25
04-ARD-186-010	0.76	0.084	69	376.7	9.93	303	0.058	11	2.34	0.048	0.52	0.05	0.01	4.1	0.1	10	0.25
04-ARD-190-001	0.11	0.011	41	66.3	0.34	14	0.059	2	0.39	0.020	0.08	0.05	0.01	1.4	0.1	4	0.25
04-ARD-190-002	0.11	0.011	45	49.4	0.32	10	0.044	2	0.40	0.017	0.04	0.05	0.01	1.3	0.1	4	0.25
04-ARD-190-003	0.10	0.011	50	73.2	0.32	19	0.040	6	0.43	0.023	0.08	0.05	0.01	1.4	0.1	4	0.25
04-ARD-190-004	0.13	0.021	47	59.0	0.28	14	0.056	2	0.33	0.017	0.05	0.05	0.01	1.1	0.1	4	0.25
04-ARD-190-005	0.35	0.049	65	56.0	0.50	15	0.120	6	0.57	0.022	0.07	0.05	0.01	2.6	0.1	6	0.25
04-ARD-190-006	0.64	0.071	61	314.3	11.03	207	0.058	8	2.18	0.041	0.41	0.05	0.01	3.5	0.1	6	0.25
04-ARD-190-008	0.94	0.166	56	225.2	11.01	144	0.022	11	2.42	0.059	0.09	0.05	0.01	3.5	0.1	7	0.25
04-ARD-190-010	0.51	0.029	62	297.3	10.63	103	0.029	22	2.08	0.037	0.23	0.05	0.01	3.8	0.1	7	0.25
04-ARD-190-012	0.37	0.062	60	252.3	12.86	728	0.098	163	1.64	0.042	0.99	0.05	0.01	2.6	0.1	4	0.25
04-ARD-190-014	0.55	0.053	64	249.4	10.97	273	0.052	57	2.28	0.112	0.41	0.05	0.01	4.5	0.1	7	0.25
04-ARD-190-016	0.82	0.083	59	211.0	10.98	336	0.047	18	2.65	0.069	0.32	0.05	0.01	4.6	0.1	8	0.25
04-ARD-193-002	0.40	0.054	76	318.2	15.18	644	0.080	86	1.70	0.061	0.82	0.05	0.01	6.8	0.1	6	0.5
04-ARD-193-004	0.74	0.123	46	451.5	18.75	141	0.042	370	0.79	0.011	0.11	0.05	0.01	8.7	0.1	3	0.25
04-ARD-193-006	0.50	0.144	55	276.3	14.28	583	0.048	232	1.78	0.062	0.64	0.05	0.01	3.8	0.1	5	0.25
04-ARD-193-008	1.65	0.098	15	820.9	18.41	453	0.075	481	0.71	0.015	0.60	0.2	0.01	9.5	0.1	3	0.25
04-ARD-193-010	2.54	0.170	10	239.5	15.67	923	0.095	106	1.39	0.037	1.67	0.1	0.01	9.0	0.3	4	0.25
04-ARD-193-012	5.52	0.135	37	363.3	14.20	520	0.124	9	1.26	0.028	0.87	0.1	0.01	7.1	0.1	3	0.25
04-ARD-193-014	3.41	0.171	12	283.2	15.98	1201	0.090	5	1.46	0.270	1.82	0.1	0.01	10.0	0.2	5	0.5
04-ARD-193-016	1.09	0.141	76	490.0	17.47	116	0.034	280	1.17	0.036	0.42	0.05	0.01	8.6	4.0	4	0.25
04-ARD-196-002	0.95	0.080	68	174.9	8.95	139	0.036	8	2.08	0.122	0.26	0.1	0.01	3.9	0.1	6	0.25
04-ARD-196-004	1.08	0.111	60	175.7	9.44	158	0.036	9	2.21	0.106	0.30	0.1	0.01	4.2	0.1	7	0.25
04-ARD-196-006	1.09	0.104	54	197.3	9.57	213	0.044	10	2.35	0.139	0.38	0.05	0.01	4.3	0.1	8	0.25
04-ARD-196-008	1.14	0.092	55	188.8	9.68	199	0.047	5	2.25	0.121	0.36	0.05	0.01	4.2	0.1	8	0.25
04-ARD-196-010	0.87	0.068	47	163.7	9.45	120	0.027	10	2.19	0.080	0.19	0.05	0.01	3.5	0.1	8	0.25
04-ARD-200-036	0.82	0.049	63	213.6	10.52	296	0.051	18	2.55	0.123	0.51	0.05	0.02	4.1	0.1	7	0.25
04-ARD-164-009	3.81	0.198	32	355.3	13.11	916	0.095	112	1.75	0.643	1.35	0.05	0.01	7.7	0.1	5	0.5
04-ARD-164-011	3.77	0.188	22	452.3	14.57	1164	0.115	36	1.58	0.219	1.47	0.1	0.01	9.8	0.2	5	0.25
04-ARD-164-013	4.18	0.177	7	403.4	15.32	1387	0.117	7	1.44	0.061	2.02	0.2	0.01	9.6	0.2	5	0.25
04-ARD-171-001	1.01	0.145	68	442.0	14.21	820	0.056	461	1.66	0.047	0.92	0.05	0.01	7.4	0.1	5	0.25
04-ARD-164-005	0.45	0.098	68	350.9	13.81	541	0.046	81	1.77	0.053	0.46	0.05	0.01	6.6	0.1	6	0.25
04-ARD-164-007	0.55	0.141	73	300.3	13.67	576	0.061	106	1.83	0.053	0.70	0.05	0.01	6.3	0.1	6	0.25
04-ARD-171-003	0.68	0.032	59	304.6	11.28	239	0.042	25	2.27	0.073	0.31	0.05	0.01	4.5	0.1	8	0.25
04-ARD-171-009	0.67	0.056	63	213.7	12.98	201	0.031	39	2.94	0.052	0.42	0.1	0.01	4.5	0.1	8	0.25
04-ARD-171-011	0.53	0.063	64	278.4	11.96	569	0.088	32	2.60	0.059	1.15	0.05	0.01	4.5	0.1	8	0.25
04-ARD-171-013	0.87	0.126	60	286.5	11.44	278	0.046	23	2.61	0.066	0.46	0.05	0.01	4.8	0.1	7	0.25
04-ARD-171-015	0.68	0.074	60	230.5	11.21	419	0.070	40	3.13	0.238	0.57	0.05	0.01	5.1	0.1	7	0.25
04-ARD-171-017	0.67	0.062	57	219.7	10.72	230	0.050	22	2.42	0.060	0.44	0.05	0.01	4.9	0.1	6	0.25
04-ARD-171-019	0.77	0.099	66	276.4	9.90	476	0.045	21	2.38	0.044	0.41	0.05	0.01	5.1	0.1	10	0.25
04-ARD-171-021	0.68	0.062	55	207.3	9.80	349	0.055	20	2.67	0.064	0.50	0.05	0.01	4.3	0.1	8	0.25
04-ARD-171-023	0.59	0.045	60	246.4	10.68	227	0.056	27	2.72	0.097	0.75	0.05	0.01	5.0	0.1	7	0.25
04-ARD-171-025	0.51	0.070	67	354.3	11.75	544	0.049	45	2.33	0.047	0.58	0.05	0.01	5.5	0.1	8	0.25
04-ARD-157-002	0.97	0.126	50	108.9	7.13	160	0.026	13	1.82	0.095	0.36	0.1	0.01	4.2	0.1	7	0.25
04-ARD-157-004	1.13	0.142	69	155.7	8.63	208	0.044	15	2.29	0.070	0.43	0.1	0.01	3.9	0.1	9	0.25
04-ARD-157-006	1.11	0.091	62	139.2	9.19	219	0.032	13	2.49	0.057	0.41	0.1	0.01	3.8	0.1	8	0.25
04-ARD-157-008	0.96	0.063	56	135.9	8.36	438	0.048	13	2.13	0.047	0.50	0.3	0.01	3.4	0.1	7	0.25
04-ARD-157-010	1.32	0.154	56	132.8	8.21	221	0.037	13	1.75	0.061	0.54	0.1	0.01	3.3	0.1	6	0.25

Whole Rock and Bulk Metal Analysis

Sample ID	Pit	Lithology		SiO2	TiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	P2O5	Ba(F)	LOI	Total	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	Ga	Se
				%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
04-ARD-159-008	Hearne	Tuffisitic Kimberlite Breccia	Kimberlite	54.36	0.43	10.42	4.61	0.020	13.23	1.39	2.01	3.56	0.18	0.08	9.14	99.43	1.10	13.8	2.4	23	0.1	428.2	29.6	161	2.17	0.8	0.8	0.8	13.9	127	0.1	0.1	0.1	42	0.59	0.065	44	88.8	6.00	120	0.025	11	1.33	0.112	0.32	0.1	0.01	3.6	0.1	6	0.25
04-ARD-159-010	Hearne	Tuffisitic Kimberlite Breccia	Kimberlite	49.84	0.43	9.31	4.65	0.020	17.12	1.51	0.43	3.48	0.25	0.08	12.02	99.14	0.80	16.3	1.9	16	0.1	503.6	29.0	143	2.24	0.8	1.0	0.3	14.7	171	0.1	0.1	0.1	41	0.82	0.102	58	130.7	7.46	171	0.028	16	2.10	0.077	0.35	0.05	0.01	3.9	0.1	8	0.25
04-ARD-159-012	Hearne	Tuffisitic Kimberlite Breccia	Kimberlite	47.02	0.44	7.36	5.88	0.020	21.52	1.60	0.49	1.54	0.33	0.05	13.23	99.48	0.50	39.6	1.8	23	0.1	666.6	45.2	258	3.30	1.4	0.8	0.9	12.0	140	0.3	0.1	0.1	42	1.02	0.129	78	221.5	8.58	286	0.048	15	2.69	0.084	0.50	0.05	0.01	4.5	0.1	9	0.25
04-ARD-159-014	Hearne	Tuffisitic Kimberlite Breccia	Kimberlite	47.06	0.41	8.25	5.38	0.020	20.62	1.45	0.58	1.94	0.28	0.07	13.35	99.41	4.20	23.4	2.5	17	0.1	618.5	37.7	216	2.91	1.0	1.2	0.9	12.1	183	0.1	0.1	0.1	33	0.84	0.114	57	169.1	9.29	277	0.033	23	2.59	0.092	0.31	0.3	0.01	3.6	0.1	9	0.5
04-ARD-159-016	Hearne	Tuffisitic Kimberlite Breccia	Kimberlite	49.02	0.38	7.11	5.11	0.020	20.79	1.62	0.56	1.82	0.25	0.05	12.68	99.41	1.00	21.7	1.7	13	0.1	545.2	33.9	201	2.53	1.2	1.0	1.8	12.2	114	0.1	0.1	0.1	31	0.97	0.094	70	171.3	8.51	177	0.036	9	2.13	0.089	0.34	0.05	0.01	3.3	0.1	8	0.5
HC22	e Slime	Fine PK	Processed kimberlite - fine														2.60	50.00	10.30	75.00	0.10	1038.80	62.90	644.00	4.23	1.00	1.30		10.10	289.00	0.10	0.10	0.10	46.00	1.32			343.60	12.97	709.00	0.07	95.00	2.08	0.08	######		0.01		0.10		0.50
HC23	1.94	Slimes	Fine PK														0.50	61.50	9.50	94.00	0.10	1146.40	74.30	712.00	4.34	1.70	1.20		8.80	366.00	0.10	0.10	0.10	49.00	1.42			305.40	12.35	745.00	0.08	138.00	1.94	0.11	######		0.01		0.20		0.50
HC24	rits Slim	Fine PK	Processed kimberlite - fine														0.30	50.10	9.90	57.00	0.20	904.20	59.90	942.00	4.64	1.20	1.30		4.70	540.00	0.10	0.10	0.10	55.00	2.91			309.70	13.17	925.00	0.11	350.00	1.94	0.43	######		0.01		0.10		0.50
HC25	ne Grits	Fine PK	Processed kimberlite - fine														1.00	44.30	34.30	70.00	0.10	1058.60	70.80	564.00	3.92	1.20	1.30		11.20	260.00	0.10	0.10	0.10	40.00	1.41			268.60	11.02	723.00	0.06	80.00	2.02	0.08	######		0.01		0.20		0.50
HC26	ame Fl	Fine PK	Processed kimberlite - fine														0.90	38.40	7.40	61.00	0.10	967.80	56.70	695.00	4.11	1.50	1.40		8.90	317.00	0.20	0.10	0.10	44.00	1.58			319.20	11.75	796.00	0.08	122.00	1.92	0.10	######		0.01		0.10		0.50
HC27	ne Floc	Fine PK	Processed kimberlite - fine														1.20	67.70	7.60	50.00	0.10	1173.10	72.20	861.00	4.56	1.50	1.30		7.80	453.00	0.10	0.10	0.10	54.00	1.55			374.10	13.13	1128.00	0.11	215.00	1.89	0.17	######		0.06		0.10		0.50
C-Fines Composite 2		Fine PK	Processed kimberlite - fine														8	152.5	15.5	54	0.5	904.8	57.8	444	5.91	10.2	1.3		14	218	0.1	0.7	0.1	139	1.28	0.094		305	8.73	629	0.28		1.90	0.05	0.51		0.115		0.1		0.5
C-Fines Composite 2		Fine PK	Processed kimberlite - fine														8.6	166.3	9.5	58	0.5	904.5	59.6	472	6.38	11.8	1.5		15.2	223	0.1	1	0.1	151	1.31	0.095		322	9	717	0.29		1.79	0.06	0.52		0.104		0.1		0.5
DGM 714-fine		Fine PK	Processed kimberlite - fine														8.6	96.5	35.4	74	0.3	438	33.2	359	4.89	6.7	1.3		12	89	0.1	1.3	0.2	127	1.60	0.081		176	5.42	198	0.27		1.95	0.03	0.49		0.054		0.2		0.5
DGM 718-fine		Fine PK	Processed kimberlite - fine														15.3	192.4	12.9	54	0.5	954.1	58.6	554	9.01	22.6	1.4		8.4	214	0.1	1.6	0.1	228	1.11	0.105		454	8.23	736	0.30		1.43	0.04	0.45		0.098		0.1		0.5
DGM 722-fine		Fine PK	Processed kimberlite - fine														13.3	171.1	5.8	74	0.3	787.1	54.7	425	6.85	16.1	1.1		8.9	206	0.1	1.1	0.1	190	1.13	0.112		331	8.35	597	0.35		2.14	0.05	0.59		0.111		0.1		0.5
DGM 726-fine		Fine PK	Processed kimberlite - fine														12.5	123.5	10.9	76	0.5	1038.8	67.4	600	6.65	14.5	1.5		7	260	0.4	0.8	0.1	173	1.36	0.096		364	9.05	981	0.37		1.56	0.04	0.47		0.123		0.1		0.5
DGM 730-fine		Fine PK	Processed kimberlite - fine														3.4	74.8	7.1	46	0.9	754	47.6	333	4.26	3.3	1		13.6	178	0.1	0.3	0.1	77	1.42	0.096		197	8.72	309	0.12		2.28	0.05	0.45		0.068		0.1		0.5
DGM 734-fine		Fine PK	Processed kimberlite - fine														9.8	70.5	10.7	66	0.3	161.7	12.5	264	4.56	12.1	1.2		30.4	34	0.1	0.9	0.1	128	0.44	0.088		285	1.4	96	0.26		0.73	0.03	0.22		0.105		0.1		0.5
DGM 738-fine		Fine PK	Processed kimberlite - fine														2.7	53.2	6.5	54	0.3	1369	74.4	690	5.15	3.6	0.9		6.5	260	0.1	0.2	0.1	58	1.90	0.077		425	16.58	672	0.10		0.96	0.05	0.52		0.021		0.1		0.5
DGM 742-fine		Fine PK	Processed kimberlite - fine														4.5	165.1	4.2	35	0.2	1071	59.2	339	4.85	6.1	2.1		10.5	219	0.1	0.4	0.1	91	1.01	0.071		280	9.44	732	0.13		2.20	0.05	0.43		0.02		0.1		0.5
DGM 746-fine		Fine PK	Processed kimberlite - fine														3.5	74.8	8.9	52	0.3	1246.1	66.7	742	5.02	5.4	1.1		4.6	345	0.1	0.3	0.1	82	1.50	0.088		361	16.34	1402	0.14		1.25	0.14	0.83		0.014		0.2		0.5
DGM 714-fine		Fine PK	Processed kimberlite - fine														8.7	100.5	37.3	70	0.3	459.3	34.5	403	5.44	7.1	1.4		13.7	93	0.1	1.4	0.1	145	1.83	0.088		197	5.92	193	0.31		1.97	0.04	0.54		0.055		0.2		0.5
K-Fines Composite		Fine PK	Processed kimberlite - fine														7.4	115.1	9.5	54	0.4	855.9	51.9	474	5.57	9.8	1.1		10.7	196	0.1	0.7	0.1	123	1.30	0.088		308	8.73	631	0.22		1.63	0.05	0.48		0.058		0.1		0.5
K-Fines Composite		Fine PK	Processed kimberlite - fine														7.3	109.9	11.1	57	0.4	878.3	53.5	499	5.79	12.1	1.2		11	197	0.1	0.7	0.1	134	1.32	0.094		328	8.96	660	0.23		1.65	0.05	0.5		0.045		0.1		0.5
DGM 713-coarse		Coarse PK	Processed kimberlite - coarse														1.3	49.4	5.5	55	0.1	298.9	23.6	289	3.51	0.6	1.5		10.3	84	0.1	0.1	0.1	79	0.83	0.066		154	4.79	179	0.13		1.75	0.05	0.57		0.005		0.2		0.5
DGM 717-coarse		Coarse PK	Processed kimberlite - coarse														0.5	48.7	2.8	41	0.3	825.2	49.3	587	3.96	1.3	1.4		12	375	0.1	0.1	0.1	56	1.04	0.126		285	11.86	779	0.09		2.30	0.10	0.89		0.005		0.1		0.5
DGM 721-coarse		Coarse PK	Processed kimberlite - coarse														0.9	32.8	1.6	39	0.2	793	51.4	500	3.87	1.1	1		10.1	286	0.1	0.1	0.1	58	1.07	0.11		230	10.84	725	0.11		2.22	0.10	0.95		0.005		0.1		0.5
DGM 725-coarse		Coarse PK	Processed kimberlite - coarse														0.2	46.3	0.8	35	0.2	951.5	58.2	597	4.10	0.5	1.1		8.9	379	0.1	0.1	0.1	48	0.80	0.102		326	14.92	790	0.10		2.28	0.09	0.8		0.005		0.1		0.5
DGM 729-coarse		Coarse PK	Processed kimberlite - coarse														0.8	33.1	1.7	35	0.2	479.3	30	284	3.14	1.2	0.8		12.5	180	0.1	0.1	0.1	53	0.91	0.087		164	7.58	263	0.08		2.04	0.11	0.62		0.005		0.1		0.5
DGM 733-coarse		Coarse PK	Processed kimberlite - coarse														0.5	5.2	3	35	0.1	21	4.1	136	1.26	0.5	0.7		24.3	15	0.1	0.1	0.1	13	0.20	0.046		94	0.68	42	0.04		0.65	0.04	0.2		0.005		0.1		0.5
DGM 737-coarse		Coarse PK	Processed kimberlite - coarse														0.2	42.1	8.1	48	0.3	1302.2	73.2	980	5.12	0.6	1		2.9	413	0.1	0.1	0.1	49	3.10	0.104		637	17.77	1016	0.10		1.02	0.08	0.85		0.005		0.1		0.5
DGM 741-coarse		Coarse PK	Processed kimberlite - coarse														0.2	26.4	0.9	32	0.2	819.8	46.5	379	3.58	0.8	1.1		10.9	278	0.1	0.1	0.1	45	0.82	0.076		300	12.91	498	0.07		2.66	0.11	0.77		0.005		0.1		0.5
DGM 745-coarse		Coarse PK	Processed kimberlite - coarse														0.2	45.4	9.3	48	0.4	1163.9	67.7	926	4.77	1	1.4		3.1	442	0.1	0.1	0.1	51	2.45	0.11		435	17.01	1174	0.11		1.79	0.32	1.28		0.005		0.2		0.5
C-Coarse Composite		Coarse PK	Processed kimberlite - coarse														0.4	32.6	3	38	0.2	700.9	43.3	503	3.65	0.8	1		11.5	267	0.1	0.1	1.5	48	1.21	0.096		281	9.68	586	0.08		1.76	0.09	0.74		0.005		0.1		0.5
C-Coarse Composite		Coarse PK	Processed kimberlite - coarse														0.5	33.6	3.6	39	0.2	726.7	44.9	530	3.82	0.8	1		10.5	276	0.1	0.1	1	49	1.26	0.096		297	10.33	627	0.09		1.71	0.10	0.72		0.005		0.1		0.5

ATTACHMENT 8.II.6

PROCESS WATER ANALYSIS

Sample ID	pH	Redox	Conductivity	Alkalinity	Chloride	Sulphate	Hardness	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe
	s.u.	mV	uS/cm	mg $CaCO_3$/L	mg/L	mg/L	mg/L $CaCO_3$	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
DGM-711	8.65	316	215	63.2	5.3	23	88.4	0.0434	0.0095	0.0014	0.0242	< 0.00002	< 0.00001	0.0368	< 0.000003	30.4	0.0041	0.000044	0.0019	0.002
DGM-715	8.81	307	201	64.0	5.2	20	83.6	0.0089	0.0090	0.0016	0.0320	< 0.00002	< 0.00001	0.0642	< 0.000003	28.0	0.0034	0.000047	0.0016	< 0.002
DGM-719	8.60	316	196	63.4	5.0	21	81.0	0.0207	0.0095	0.0014	0.0294	< 0.00002	< 0.00001	0.0706	< 0.000003	26.8	0.0026	0.000048	0.0019	0.007
DGM-723	8.61	321	200	64.8	5.1	17	84.0	0.0052	0.0090	0.0015	0.0373	< 0.00002	< 0.00001	0.0794	< 0.000003	27.6	0.0027	0.000044	0.0015	0.005
DGM-727	8.48	329	196	62.1	5.2	22	78.6	0.0081	0.0086	0.0014	0.0339	< 0.00002	< 0.00001	0.0774	< 0.000003	24.9	0.0026	0.000049	0.0016	0.004
DGM-731	7.92	355	198	67.2	5.1	18	82.3	0.0057	0.0082	0.0011	0.0397	< 0.00002	< 0.00001	0.0793	< 0.000003	26.9	0.0021	0.000110	0.0024	0.006
DGM-735	8.31	342	192	61.9	5.5	17	79.4	0.0115	0.0080	0.0013	0.0405	< 0.00002	< 0.00001	0.0801	< 0.000003	25.7	0.0021	0.000061	0.0019	0.010
DGM-739	8.18	352	188	56.6	5.3	23	73.6	0.0059	0.0075	0.0014	0.0426	< 0.00002	< 0.00001	0.0817	< 0.000003	23.1	0.0026	0.000049	0.0016	0.012
DGM-743	8.22	354	186	59.0	5.3	16	73.9	0.0053	0.0072	0.0013	0.0505	< 0.00002	< 0.00001	0.0821	< 0.000003	23.4	0.0022	0.000050	0.0014	0.005

Sample ID	Pb	Li	Mg	Mn	Hg	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
	mg/L	mg/L	mg/L	mg/L	ug/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
DGM-711	0.00004	0.008	3.00	< 0.0002	0.02	0.00354	0.0004	0.087	7.84	0.00018	2.39	0.00014	3.94	0.130	12.5	< 0.0002	0.00040	0.0003	0.000228	0.00946	< 0.001	0.00013
DGM-715	0.00003	0.008	3.34	< 0.0002	0.02	0.00369	0.0004	0.088	7.01	0.00017	2.28	0.00009	4.60	0.148	12.0	< 0.0002	0.00032	0.0002	0.000220	0.00964	< 0.001	0.00012
DGM-719	0.00004	0.009	3.43	0.0005	0.01	0.00367	0.0005	0.089	5.68	0.00016	2.19	0.00006	4.69	0.126	11.4	< 0.0002	0.00025	0.0007	0.000177	0.00656	< 0.001	0.00007
DGM-723	< 0.00002	0.008	3.69	0.0006	0.02	0.00374	0.0005	0.078	6.36	0.00014	2.40	0.00004	5.05	0.138	11.8	< 0.0002	0.00019	0.0003	0.000171	0.00736	< 0.001	0.00007
DGM-727	0.00003	0.008	3.98	0.0003	0.03	0.00380	0.0006	0.072	6.08	0.00016	2.44	0.00004	6.10	0.153	11.7	< 0.0002	0.00023	0.0003	0.000201	0.00773	< 0.001	0.00008
DGM-731	0.00002	0.008	3.65	0.0075	0.02	0.00363	0.0021	0.034	5.40	0.00019	2.53	0.00003	4.82	0.138	11.1	< 0.0002	0.00028	0.0004	0.000158	0.00176	< 0.001	0.00007
DGM-735	0.00005	0.008	3.72	0.0006	0.02	0.00335	0.0012	0.061	5.38	0.00015	2.45	0.00002	4.65	0.133	11.1	< 0.0002	0.00033	0.0006	0.000042	0.00363	< 0.001	0.00006
DGM-739	0.00008	0.008	3.83	0.0005	< 0.01	0.00339	0.0007	0.078	4.97	0.00014	2.49	0.00002	5.54	0.156	10.9	< 0.0002	0.00024	0.0005	0.000151	0.00507	< 0.001	0.00008
DGM-743	< 0.00002	0.007	3.75	0.0007	0.02	0.00327	0.0010	0.064	5.08	0.00016	2.48	0.00002	4.67	0.136	10.5	< 0.0002	0.00021	0.0003	0.000059	0.00318	< 0.001	0.00005

ATTACHMENT 8.II.7

SHAKE FLASK TESTING

Shake Flask Testing

Sample ID	Lithology	pH	SO_4^{2-} (mg/L)	Cl- (mg/L)	Al (mg/L)	Sb (mg/L)	As (mg/L)	Ba (mg/L)	Be (mg/L)	Bi (mg/L)
04-ARD-120-004	Granite	8.78	2	1.3	1.97	0.011	0.011	0.012	< 0.001	< 0.001
04-ARD-120-014	Granite	8.51	1	1.3	1.22	0.006	0.007	0.002	< 0.001	< 0.001
04-ARD-120-026	Granite	8.64	7	1.1	0.97	0.008	0.048	0.011	< 0.001	< 0.001
04-ARD-120-039	Granite	9.00	1	1.6	1.97	0.001	0.003	0.007	< 0.001	< 0.001
04-ARD-120-047	Granite	9.84	1	99.4	< 0.005	< 0.001	< 0.001	3.04	< 0.001	< 0.001
04-ARD-121-007	Granite	8.87	2	1.7	1.96	0.006	0.005	0.014	< 0.001	< 0.001
04-ARD-121-046	Granite	8.70	17	1.6	0.47	0.013	0.005	0.007	< 0.001	< 0.001
04-ARD-121-047	Granite	8.76	2.0	1.34	1.27	0.029	0.012	0.008	< 0.001	< 0.001
04-ARD-121-048	Granite	8.48	15.1	1.38	0.47	0.009	0.002	0.004	< 0.001	< 0.001
04-ARD-122-022	Granite	8.83	16.4	28.7	0.16	0.004	0.002	0.012	< 0.001	< 0.001
04-ARD-122-023	Granite	8.49	26.5	19.3	0.33	0.004	0.002	0.01	< 0.001	< 0.001
04-ARD-122-024	Granite	8.44	1.5	1.26	1.36	0.004	0.005	0.007	< 0.001	< 0.001
04-ARD-122-025	Granite	9.12	2.2	1.35	1.62	< 0.001	0.003	0.042	< 0.001	< 0.001
04-ARD-124-009	Granite	8.48	8.9	3.57	0.63	0.004	0.007	0.046	< 0.001	< 0.001
04-ARD-124-010	Granite	8.40	13.7	1.35	0.78	0.007	0.002	0.015	< 0.001	< 0.001
04-ARD-124-011	Granite	8.90	1.4	0.91	1.88	0.052	0.003	0.013	< 0.001	< 0.001
04-ARD-124-012	Granite	9.08	3.2	0.98	1.81	0.01	0.004	0.009	< 0.001	< 0.001
04-ARD-124-013	Granite	8.33	3.0	1.35	1.2	0.006	0.003	0.01	< 0.001	< 0.001
04-ARD-139-001	Granite	9.14	3	1.2	3.92	0.003	0.003	0.063	< 0.001	< 0.001
04-ARD-139-033	Granite	8.87	11	4.1	0.19	0.002	0.002	0.021	< 0.001	< 0.001
04-ARD-139-039	Granite	8.06	14	2	1	0.014	0.004	0.01	< 0.001	< 0.001
04-ARD-142-011	Granite	8.36	1	2	1.21	0.003	0.003	0.005	< 0.001	< 0.001
04-ARD-142-029	Granite	8.71	1	2	1.85	0.007	0.004	0.006	< 0.001	< 0.001
04-ARD-142-040	Granite	8.23	1	1.5	1.64	0.067	0.011	0.006	< 0.001	< 0.001
04-ARD-157-012	Granite	8.86	2	2	1.4	0.004	0.013	0.009	< 0.001	< 0.001
04-ARD-168-005	Granite	8.83	2	1.1	2.48	0.017	0.006	0.01	< 0.001	< 0.001
04-ARD-180-028	Granite	8.99	1	1.7	0.85	0.007	< 0.001	0.003	< 0.001	< 0.001
04-ARD-180-039	Granite	8.48	3	2.5	1.55	0.003	0.004	0.024	< 0.001	< 0.001
04-ARD-191-003	Granite	8.03	1	1.8	1.72	0.01	0.007	0.005	< 0.001	< 0.001
04-ARD-199-033	Granite	8.67	1	1.5	6.32	0.007	0.005	0.075	< 0.001	< 0.001
04-ARD-199-043	Granite	8.91	2	2.9	2.37	0.008	0.007	0.017	< 0.001	< 0.001
04-ARD-200-001	Granite	7.90	2	1	2.79	0.003	0.006	0.019	< 0.001	< 0.001
04-ARD-200-018	Granite	9.04	1	1.2	2.27	0.004	0.009	0.01	< 0.001	< 0.001
04-ARD-200-035	Granite	8.63	38	57.2	0.068	0.005	0.017	0.03	< 0.001	< 0.001
04-ARD-137-011	Hypabyssal Kimberlite	10.33	3	19.5	0.007	0.002	< 0.001	0.15	< 0.001	< 0.001
04-ARD-164-015	Hypabyssal Kimberlite	10.62	< 1	150.2	0.006	< 0.001	< 0.001	0.96	< 0.001	< 0.001
04-ARD-171-001	Hypabyssal Kimberlite Transitional Zone	9.01	6	13.5	0.007	0.001	0.001	0.22	< 0.001	< 0.001
04-ARD-121-025	Kimberlite	8.78	60	9.2	3.17	0.019	0.002	0.012	< 0.001	< 0.001
04-ARD-121-029	Kimberlite	8.94	76	7.2	0.88	< 0.001	< 0.001	0.004	< 0.001	< 0.001
04-ARD-122-002	Kimberlite	8.79	29	1.5	0.042	< 0.001	< 0.001	0.04	< 0.001	< 0.001
04-ARD-122-014	Kimberlite	9.42	6	10.1	0.018	0.002	0.011	0.059	< 0.001	< 0.001
04-ARD-124-003	Kimberlite	9.08	5	1.1	0.19	0.002	< 0.001	0.05	< 0.001	< 0.001
04-ARD-126-009	Kimberlite	10.24	1	67.9	< 0.005	0.002	< 0.001	0.25	< 0.001	< 0.001
04-ARD-130-007	Kimberlite	9.98	1	21.6	< 0.005	< 0.001	< 0.001	0.23	< 0.001	< 0.001
04-ARD-132-003	Kimberlite	9.05	8	2	2.6	< 0.001	0.002	0.16	< 0.001	< 0.001
04-ARD-132-013	Kimberlite	8.53	10	2.2	6.57	< 0.001	0.001	0.043	< 0.001	< 0.001
04-ARD-139-011	Kimberlite	8.49	66	5	0.017	< 0.001	0.002	0.027	< 0.001	< 0.001
04-ARD-139-019	Kimberlite	9.14	6	4.7	1	< 0.001	< 0.001	0.02	< 0.001	< 0.001
04-ARD-145-022	Kimberlite	9.67	14	5.3	0.13	0.001	0.004	0.11	< 0.001	< 0.001
04-ARD-145-034	Kimberlite	9.01	3	117	< 0.005	0.001	< 0.001	0.27	< 0.001	< 0.001
04-ARD-149-011	Kimberlite	9.50	< 1	136.7	< 0.005	< 0.001	< 0.001	2.41	< 0.001	< 0.001
04-ARD-181-004	Kimberlite	9.01	33	8.4	0.005	0.002	0.001	0.05	< 0.001	< 0.001
04-ARD-181-018	Kimberlite	10.26	< 1	117.3	< 0.005	< 0.001	< 0.001	2.33	< 0.001	< 0.001
04-ARD-190-002	Kimberlite	7.95	13	3.6	1.52	< 0.001	0.001	0.045	< 0.001	< 0.001
04-ARD-190-016	Kimberlite	8.78	9	4.6	18.6	< 0.001	0.001	0.11	< 0.001	< 0.001
04-ARD-193-016	Kimberlite	9.33	1	57	< 0.005	0.001	< 0.001	0.027	< 0.001	< 0.001
04-ARD-196-006	Kimberlite	8.36	163	2.5	0.067	0.001	< 0.001	0.053	< 0.001	< 0.001
04-ARD-200-036	Kimberlite	8.95	17	9.6	7.19	0.004	0.087	0.008	< 0.001	< 0.001
04-ARD-171-017	Tuffisitic Kimberlite	8.51	5	3.8	12.7	< 0.001	0.001	0.04	< 0.001	< 0.001
04-ARD-157-006	Tuffisitic Kimberlite Breccia	8.91	54	1.7	3.07	< 0.001	0.002	0.018	< 0.001	< 0.001
04-ARD-159-012	Tuffisitic Kimberlite Breccia	8.58	104	12	0.014	< 0.001	< 0.001	0.018	< 0.001	< 0.001
DGM 714-fine	Fine PK	8.16	36		0.0584	0.0130	0.0009	0.0545	< 0.00002	< 0.00001
DGM 718-fine	Fine PK	8.33	16		0.0042	0.0066	0.0011	0.203	< 0.00002	< 0.00001
DGM 722-fine	Fine PK	8.33	21		0.0060	0.0071	0.0008	0.196	< 0.00002	< 0.00001
DGM 726-fine	Fine PK	8.37	17		0.0051	0.0068	0.0006	0.276	< 0.00002	< 0.00001
DGM 730-fine	Fine PK	8.06	18		0.0333	0.0018	0.0062	0.0247	< 0.00002	0.00001
DGM 734-fine	Fine PK	7.97	6		0.0455	0.0034	0.0010	0.0307	< 0.00002	< 0.00001
DGM 742-fine	Fine PK	8.17	10		0.0072	0.0030	0.0021	0.125	< 0.00002	< 0.00001
DGM 738-fine	Fine PK	8.10	15		0.0009	0.0015	0.0009	0.166	< 0.00002	< 0.00001
DGM 746-fine	Fine PK	8.26	5		0.0012	0.0026	0.0015	0.192	< 0.00002	< 0.00001
PK-Fines Compos	Fine PK	8.18	19		0.0105	0.0044	0.0010	0.142	< 0.00002	< 0.00001
DGM 717-coarse	Coarse PK	8.33	19		0.0050	0.0013	0.0028	0.0757	< 0.00002	< 0.00001
DGM 721-coarse	Coarse PK	8.31	10		0.0116	0.0015	0.0010	0.0443	< 0.00002	< 0.00001
DGM 725-coarse	Coarse PK	8.36	4		0.0079	0.0004	0.0005	0.101	< 0.00002	< 0.00001
DGM 729-coarse	Coarse PK	8.06	21		0.200	0.0003	0.0029	0.0112	< 0.00002	< 0.00001
DGM 733-coarse	Coarse PK	7.84	< 1		0.0795	< 0.0002	0.0014	0.0111	< 0.00002	< 0.00001
DGM 737-coarse	Coarse PK	7.91	1		0.0014	< 0.0002	0.0010	0.783	< 0.00002	< 0.00001
DGM 713-coarse	Coarse PK	8.11	31		0.0220	0.0017	0.0007	0.0208	< 0.00002	< 0.00001
DGM 741-coarse	Coarse PK	8.27	6		0.0251	0.0005	0.0034	0.0568	< 0.00002	< 0.00001
DGM 745-coarse	Coarse PK	8.13	< 1		0.0012	< 0.0002	0.0010	1.21	< 0.00002	< 0.00001
PK-Coarse Compo	Coarse PK	8.14	2		0.0046	0.0004	0.0010	0.117	< 0.00002	< 0.00001

Sample ID	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)
04-ARD-120-004	< 0.05	< 0.0002	3.36	< 0.001	< 0.001	0.005	1.03	0.004	0.013	0.73	0.014	< 0.02	0.0065	< 0.001	< 0.15	7.2	< 0.001
04-ARD-120-014	< 0.05	< 0.0002	2.93	< 0.001	< 0.001	< 0.001	0.14	< 0.001	0.012	0.4	0.002	< 0.02	0.0055	< 0.001	< 0.15	7.9	< 0.001
04-ARD-120-026	< 0.05	< 0.0002	4.61	< 0.001	< 0.001	0.003	0.19	< 0.001	0.007	0.76	0.003	< 0.02	0.016	< 0.001	0.2	6.3	< 0.001
04-ARD-120-039	< 0.05	< 0.0002	1.92	< 0.001	< 0.001	0.002	0.98	0.002	0.011	0.79	0.014	< 0.02	0.0009	< 0.001	0.2	7.9	< 0.001
04-ARD-120-047	1.53	< 0.0002	34.8	< 0.001	< 0.001	< 0.001	< 0.05	< 0.001	< 0.001	2.09	< 0.001	< 0.02	< 0.0005	< 0.001	< 0.15	48.2	< 0.001
04-ARD-121-007	< 0.05	< 0.0002	0.35	< 0.001	< 0.001	0.001	0.55	0.002	0.002	0.75	0.007	< 0.02	0.0018	< 0.001	0.2	5	< 0.001
04-ARD-121-046	< 0.05	< 0.0002	8.94	< 0.001	< 0.001	< 0.001	< 0.05	< 0.001	0.008	2.36	0.002	< 0.02	0.0023	< 0.001	< 0.15	5.6	< 0.001
04-ARD-121-047	< 0.05	< 0.0002	3.65	< 0.001	< 0.001	< 0.001	0.43	0.004	0.003	0.75	0.007	< 0.02	0.0011	< 0.001	0.2	6.7	< 0.001
04-ARD-121-048	< 0.05	< 0.0002	7.34	< 0.001	< 0.001	< 0.001	< 0.05	< 0.001	0.004	2.18	0.002	< 0.02	0.0031	< 0.001	< 0.15	4.9	< 0.001
04-ARD-122-022	< 0.05	< 0.0002	15.2	< 0.001	< 0.001	< 0.001	< 0.05	< 0.001	0.024	4.22	0.001	< 0.02	0.0073	< 0.001	< 0.15	11.9	< 0.001
04-ARD-122-023	< 0.05	< 0.0002	11.4	< 0.001	< 0.001	< 0.001	< 0.05	< 0.001	0.015	2.76	0.002	< 0.02	0.0027	< 0.001	< 0.15	11.1	< 0.001
04-ARD-122-024	< 0.05	< 0.0002	2.99	< 0.001	< 0.001	< 0.001	0.34	< 0.001	0.009	0.6	0.007	< 0.02	0.0014	< 0.001	0.2	8	< 0.001
04-ARD-122-025	< 0.05	< 0.0002	3.25	< 0.001	< 0.001	< 0.001	0.82	< 0.001	0.005	1	0.014	< 0.02	0.0016	< 0.001	0.2	6.8	< 0.001
04-ARD-124-009	< 0.05	< 0.0002	3.87	< 0.001	< 0.001	< 0.001	0.37	< 0.001	0.015	1.53	0.005	< 0.02	0.0027	< 0.001	0.2	9.9	< 0.001
04-ARD-124-010	< 0.05	< 0.0002	3.53	< 0.001	< 0.001	< 0.001	0.34	< 0.001	0.009	1.38	0.01	< 0.02	0.0014	< 0.001	1.5	7.7	< 0.001
04-ARD-124-011	< 0.05	< 0.0002	0.74	< 0.001	< 0.001	< 0.001	0.85	0.012	0.007	0.61	0.015	< 0.02	0.0026	< 0.001	0.3	7.8	< 0.001
04-ARD-124-012	< 0.05	< 0.0002	0.59	< 0.001	< 0.001	< 0.001	0.66	0.002	0.014	0.48	0.012	< 0.02	0.0014	< 0.001	0.5	7.7	< 0.001
04-ARD-124-013	< 0.05	< 0.0002	0.55	< 0.001	< 0.001	< 0.001	0.2	0.001	0.006	0.27	0.007	< 0.02	0.004	< 0.001	0.5	5.7	< 0.001
04-ARD-139-001	< 0.05	< 0.0002	3.97	0.003	0.001	0.002	3.98	0.057	0.022	3.14	0.055	< 0.02	0.0009	0.002	0.3	10.9	< 0.001
04-ARD-139-033	0.34	< 0.0002	3.39	< 0.001	< 0.001	< 0.001	0.18	< 0.001	0.018	1.38	0.002	< 0.02	0.033	< 0.001	< 0.15	7.3	< 0.001
04-ARD-139-039	< 0.05	< 0.0002	6.46	< 0.001	< 0.001	0.005	0.58	0.001	0.006	1.63	0.007	< 0.02	0.024	< 0.001	< 0.15	8.5	< 0.001
04-ARD-142-011	< 0.05	< 0.0002	3.15	< 0.001	< 0.001	< 0.001	0.24	< 0.001	0.009	0.61	0.004	< 0.02	0.001	< 0.001	0.2	7.5	< 0.001
04-ARD-142-029	< 0.05	< 0.0002	3.06	< 0.001	< 0.001	0.002	0.89	0.003	0.007	0.71	0.009	< 0.02	0.0066	< 0.001	< 0.15	8.2	< 0.001
04-ARD-142-040	< 0.05	< 0.0002	3.25	< 0.001	< 0.001	0.002	0.6	0.017	0.007	0.66	0.007	< 0.02	0.011	< 0.001	0.2	8	< 0.001
04-ARD-157-012	< 0.05	< 0.0002	4.16	< 0.001	< 0.001	< 0.001	0.24	< 0.001	0.001	0.69	0.004	< 0.02	0.0009	< 0.001	< 0.15	5	< 0.001
04-ARD-168-005	< 0.05	< 0.0002	0.25	< 0.001	< 0.001	< 0.001	0.88	0.002	0.007	0.56	0.014	< 0.02	0.0013	< 0.001	0.5	6.8	< 0.001
04-ARD-180-028	< 0.05	< 0.0002	3.46	< 0.001	< 0.001	< 0.001	0.1	< 0.001	0.01	0.87	0.002	< 0.02	0.0009	< 0.001	< 0.15	6.5	< 0.001
04-ARD-180-039	< 0.05	< 0.0002	1.95	< 0.001	< 0.001	< 0.001	0.88	0.001	0.008	1.29	0.015	< 0.02	0.012	0.003	0.2	7.8	< 0.001
04-ARD-191-003	< 0.05	< 0.0002	0.45	< 0.001	< 0.001	0.001	0.92	0.003	0.004	0.59	0.008	< 0.02	0.0011	< 0.001	< 0.15	3	< 0.001
04-ARD-199-033	< 0.05	< 0.0002	2.2	0.002	0.003	0.004	6.92	0.016	0.031	3.5	0.15	< 0.02	0.001	0.003	0.6	10.6	< 0.001
04-ARD-199-043	< 0.05	< 0.0002	1.75	0.001	< 0.001	0.003	1.56	0.004	0.005	1.83	0.025	< 0.02	0.0025	0.001	0.3	6.1	< 0.001
04-ARD-200-001	< 0.05	< 0.0002	0.49	< 0.001	< 0.001	0.004	1.71	0.002	0.005	0.76	0.018	< 0.02	0.002	< 0.001	0.2	5.7	< 0.001
04-ARD-200-018	< 0.05	< 0.0002	2.99	< 0.001	< 0.001	0.004	1.11	0.004	0.01	0.66	0.023	< 0.02	0.0033	< 0.001	< 0.15	6.2	< 0.001
04-ARD-200-035	0.14	< 0.0002	20.5	< 0.001	< 0.001	< 0.001	0.06	< 0.001	0.036	7.56	0.002	< 0.02	0.017	< 0.001	< 0.15	22.8	< 0.001
04-ARD-137-011	1.33	< 0.0002	13.7	< 0.001	< 0.001	< 0.001	< 0.05	< 0.001	< 0.001	0.06	< 0.001	< 0.02	< 0.0005	< 0.001	< 0.15	14.1	< 0.001
04-ARD-164-015	1.68	< 0.0002	72.6	< 0.001	< 0.001	< 0.001	0.08	< 0.001	0.002	0.35	< 0.001	< 0.02	< 0.0005	< 0.001	< 0.15	43.7	< 0.001
04-ARD-171-001	0.86	< 0.0002	5.65	< 0.001	< 0.001	< 0.001	< 0.05	< 0.001	0.006	5.47	< 0.001	< 0.02	0.0006	< 0.001	< 0.15	10.7	< 0.001
04-ARD-121-025	0.12	< 0.0002	10.3	0.024	0.006	0.001	3.65	0.001	0.019	16.1	0.014	< 0.02	0.0071	0.14	< 0.15	5.9	< 0.001
04-ARD-121-029	0.19	< 0.0002	12.5	0.006	0.003	< 0.001	1.38	< 0.001	0.005	10.5	0.008	< 0.02	0.07	0.038	< 0.15	6.7	< 0.001
04-ARD-122-002	0.59	< 0.0002	7.97	0.001	< 0.001	< 0.001	0.19	< 0.001	0.006	8.58	0.002	< 0.02	0.0027	0.006	< 0.15	8.3	< 0.001
04-ARD-122-014	8.03	< 0.0002	5.72	< 0.001	< 0.001	< 0.001	< 0.05	< 0.001	0.002	1.68	< 0.001	< 0.02	0.0008	< 0.001	< 0.15	9.9	< 0.001
04-ARD-124-003	0.98	< 0.0002	4.03	0.003	< 0.001	< 0.001	0.39	< 0.001	0.005	5.07	0.005	< 0.02	0.0006	0.011	< 0.15	4.7	< 0.001
04-ARD-126-009	1.67	< 0.0002	30.5	< 0.001	< 0.001	< 0.001	< 0.05	< 0.001	< 0.001	0.23	< 0.001	< 0.02	< 0.0005	< 0.001	< 0.15	33.2	< 0.001
04-ARD-130-007	0.79	< 0.0002	7.15	< 0.001	< 0.001	< 0.001	< 0.05	< 0.001	< 0.001	1.15	< 0.001	< 0.02	< 0.0005	< 0.001	< 0.15	29.3	< 0.001
04-ARD-132-003	0.45	< 0.0002	5.6	0.023	0.005	0.001	3.25	< 0.001	0.016	16.6	0.017	< 0.02	0.0012	0.12	< 0.15	4.7	< 0.001
04-ARD-132-013	3.91	< 0.0002	6.8	0.051	0.019	0.001	9.51	< 0.001	0.011	40.7	0.068	< 0.02	0.0076	0.34	< 0.15	6.5	< 0.001
04-ARD-139-011	0.14	< 0.0002	18.9	< 0.001	< 0.001	< 0.001	0.09	< 0.001	0.01	7.14	< 0.001	< 0.02	0.028	0.001	< 0.15	5.9	< 0.001
04-ARD-139-019	2.22	< 0.0002	6.1	0.02	0.003	0.002	2.32	< 0.001	0.037	10.2	0.02	< 0.02	0.0012	0.074	< 0.15	7.3	< 0.001
04-ARD-145-022	8.58	< 0.0002	1.28	0.001	< 0.001	< 0.001	0.28	< 0.001	0.004	1.86	0.004	< 0.02	< 0.0005	0.009	< 0.15	20.8	< 0.001
04-ARD-145-034	4.48	< 0.0002	22.1	< 0.001	< 0.001	< 0.001	0.05	< 0.001	0.003	11.3	< 0.001	< 0.02	< 0.0005	< 0.001	< 0.15	40.5	< 0.001
04-ARD-149-011	6.72	< 0.0002	54.6	< 0.001	< 0.001	< 0.001	0.08	< 0.001	0.006	15.3	< 0.001	< 0.02	< 0.0005	< 0.001	< 0.15	7	< 0.001
04-ARD-181-004	5.74	< 0.0002	6.81	< 0.001	< 0.001	< 0.001	< 0.05	< 0.001	0.004	4.45	< 0.001	< 0.02	0.0055	< 0.001	< 0.15	11.1	< 0.001
04-ARD-181-018	2.03	< 0.0002	57.3	< 0.001	< 0.001	< 0.001	0.08	< 0.001	0.002	0.78	< 0.001	< 0.02	< 0.0005	< 0.001	< 0.15	39.3	< 0.001
04-ARD-190-002	0.09	< 0.0002	7.65	0.013	0.002	< 0.001	1.54	< 0.001	0.028	8.96	0.008	< 0.02	0.025	0.054	< 0.15	3.2	< 0.001
04-ARD-190-016	1.55	< 0.0002	8.69	0.15	0.046	0.003	26.5	0.002	0.042	103	0.22	< 0.02	0.0013	1.2	0.2	4.8	< 0.001
04-ARD-193-016	3.27	< 0.0002	11.9	< 0.001	< 0.001	< 0.001	0.06	< 0.001	0.003	5.35	< 0.001	< 0.02	0.0006	< 0.001	< 0.15	12.2	< 0.001
04-ARD-196-006	0.08	< 0.0002	33.2	< 0.001	< 0.001	0.001	0.22	< 0.001	0.02	11	0.008	< 0.02	0.166	0.017	< 0.15	6.8	< 0.001
04-ARD-200-036	0.74	< 0.0002	4.71	0.048	0.01	0.01	8.33	< 0.001	0.022	38.1	0.059	< 0.02	0.015	0.34	0.3	2.6	< 0.001
04-ARD-171-017	1.19	< 0.0002	7.28	0.11	0.027	0.003	18.8	< 0.001	0.032	70.5	0.14	< 0.02	0.0039	0.77	0.2	5	< 0.001
04-ARD-157-006	0.28	< 0.0002	8.97	0.017	0.009	0.002	3.31	< 0.001	0.018	19.5	0.02	< 0.02	0.035	0.13	< 0.15	5.1	< 0.001
04-ARD-159-012	0.22	< 0.0002	19.1	< 0.001	< 0.001	< 0.001	0.06	< 0.001	0.015	9.51	0.002	< 0.02	0.036	0.004	< 0.15	6	< 0.001
DGM 714-fine	0.157	0.000004	32.8	0.0013	0.000351	0.0025	0.096	0.00018	0.016	9.22	0.0035	< 0.01	0.0169	0.0104	0.022	12.4	0.00024
DGM 718-fine	2.76	0.000009	23.9	0.0009	0.000059	0.0018	0.007	0.00004	0.007	8.76	0.0033	< 0.01	0.0374	0.0021	0.058	12.5	0.00019
DGM 722-fine	1.21	0.000014	24.0	0.0006	0.000075	0.0015	0.004	0.00003	0.007	6.51	0.0035	< 0.01	0.0461	0.0024	0.051	11.6	0.00007
DGM 726-fine	2.55	0.000019	26.7	0.0010	0.000048	0.0025	0.012	0.00003	0.006	9.78	0.0030	< 0.01	0.0642	0.0021	0.037	14.1	0.00006
DGM 730-fine	0.423	0.000003	19.1	0.0019	0.000265	0.0038	0.038	0.00008	0.004	6.25	0.0016	IP	0.0199	0.0060	0.033	7.39	0.00017
DGM 734-fine	0.226	0.000005	20.2	0.0009	0.000079	0.0021	0.027	0.00012	0.012	5.29	0.0140	IP	0.0160	0.0049	0.059	8.47	0.00005
DGM 742-fine	0.848	0.000006	25.3	0.0011	0.000049	0.0045	0.022	0.00009	0.004	7.72	0.0017	IP	0.0218	0.0015	0.043	9.68	< 0.00004
DGM 738-fine	0.646	< 0.00000	43.7	< 0.0005	0.000078	0.0008	< 0.002	0.00004	0.004	16.1	0.0019	IP	0.00356	0.0032	0.032	21.7	0.00019
DGM 746-fine	1.06	< 0.00000	23.0	0.0005	0.000046	0.0006	< 0.002	0.00004	0.003	7.79	0.0008	IP	0.00715	0.0026	0.016	30.8	0.00078
PK-Fines Compos	1.12	0.000003	28.4	0.0006	0.000093	0.0017	0.020	0.00007	0.007	8.90	0.0027	IP	0.0151	0.0031	0.045	14.4	0.00033
DGM 717-coarse	2.43	0.000004	14.2	0.0008	0.000047	0.0029	0.005	0.00006	0.003	7.58	0.0008	< 0.01	0.0105	0.0021	< 0.009	12.1	0.00022
DGM 721-coarse	2.49	< 0.00000	12.4	0.0010	0.000066	0.0012	0.015	0.00003	0.004	4.49	0.0008	0.01	0.00407	0.0019	< 0.009	8.58	0.00108
DGM 725-coarse	2.33	0.000004	13.3	0.0007	0.000041	0.0017	0.019	0.00003	0.003	7.29	0.0003	< 0.01	0.00461	0.0013	< 0.009	10.9	< 0.00004
DGM 729-coarse	0.418	0.000005	9.24	0.0023	0.000562	0.0038	0.306	0.00006	0.003	4.87	0.0030	IP	0.0272	0.0098	0.030	6.91	0.00023
DGM 733-coarse	0.0798	< 0.00000	8.12	< 0.0005	0.000015	0.0008	< 0.002	< 0.00002	0.006	2.00	0.0028	IP	0.00495	0.0003	0.012	5.90	0.00007
DGM 737-coarse	0.635	< 0.00000	50.4	< 0.0005	0.000163	0.0007	< 0.002	< 0.00002	0.003	24.6	0.0025	IP	0.00080	0.0038	0.025	21.1	0.00027
DGM 713-coarse	0.137	0.000004	18.0	< 0.0005	0.000142	0.0013	0.034	0.00002	0.006	6.52	0.0007	< 0.01	0.0132	0.0044	< 0.009	6.49	0.00025
DGM 741-coarse	0.782	< 0.00000	8.97	0.0009	0.000086	0.0017	0.042	0.00003	0.003	3.82	0.0007	IP	0.00968	0.0023	0.021	5.04	0.00017
DGM 745-coarse	0.669	< 0.00000	21.8	< 0.0005	0.000090	0.0007	< 0.002	0.00003	0.003		0.0013	IP	0.00096	0.0038	0.010	25.7	0.00030
PK-Coarse Compo	1.14	< 0.00000	19.0	< 0.0005	0.000060	0.0009	0.010	0.00002	0.004		0.0011	IP	0.00301	0.0022	0.030	10.4	0.00040

Sample ID	SiO2 (mg/L)	Ag (mg/L)	Na (mg/L)	Sr (mg/L)	Te (mg/L)	Tl (mg/L)	Th (mg/L)	Sn (mg/L)	Ti (mg/L)	U (mg/L)	V (mg/L)	Zn (mg/L)	Zr (mg/L)
04-ARD-120-004	12.1	< 0.00025	3.86	0.011	< 0.001	< 0.0001	< 0.005	< 0.001	0.063	0.0009	0.005	0.009	< 0.01
04-ARD-120-014	9.4	< 0.00025	3.53	0.008	< 0.001	< 0.0001	< 0.0005	< 0.001	0.009	< 0.0005	0.005	< 0.005	< 0.01
04-ARD-120-026	7.2	< 0.00025	3.32	0.027	< 0.001	< 0.0001	< 0.0005	< 0.001	0.008	0.0007	0.004	< 0.005	< 0.01
04-ARD-120-039	12.1	< 0.00025	3.46	0.015	< 0.001	< 0.0001	< 0.005	< 0.001	0.095	< 0.0005	0.005	0.005	< 0.01
04-ARD-120-047	3.8	< 0.00025	1.79	0.54	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.005	< 0.01
04-ARD-121-007	13	< 0.00025	5.63	0.006	< 0.001	< 0.0001	< 0.005	< 0.001	0.002	< 0.0005	0.011	0.007	< 0.01
04-ARD-121-046	6.1	< 0.00025	4.48	0.069	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	0.0008	0.007	< 0.005	< 0.01
04-ARD-121-047	9.8	< 0.00025	3.44	0.023	< 0.001	< 0.0001	< 0.0005	0.001	0.031	< 0.0005	0.006	< 0.005	< 0.01
04-ARD-121-048	6.5	< 0.00025	4.89	0.065	< 0.001	< 0.0001	< 0.0005	< 0.001	0.002	< 0.0005	0.005	< 0.005	< 0.01
04-ARD-122-022	8.4	< 0.00025	10.3	0.25	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	0.02	< 0.005	< 0.01
04-ARD-122-023	6.6	< 0.00025	9.31	0.17	< 0.001	< 0.0001	< 0.0005	< 0.001	0.002	< 0.0005	0.011	< 0.005	< 0.01
04-ARD-122-024	8.9	< 0.00025	3.85	0.024	< 0.001	< 0.0001	< 0.0005	< 0.001	0.039	< 0.0005	0.01	< 0.005	< 0.01
04-ARD-122-025	11.5	< 0.00025	4.6	0.04	< 0.001	< 0.0001	< 0.0005	< 0.001	0.084	< 0.0005	0.008	< 0.005	< 0.01
04-ARD-124-009	10.1	< 0.00025	5.69	0.043	< 0.001	< 0.0001	< 0.0005	< 0.001	0.018	< 0.0005	0.1	< 0.005	< 0.01
04-ARD-124-010	7.3	< 0.00025	2.2	0.031	< 0.001	< 0.0001	< 0.0005	< 0.001	0.01	< 0.0005	0.027	< 0.005	< 0.01
04-ARD-124-011	8.5	< 0.00025	2.76	0.01	< 0.001	< 0.0001	< 0.0005	0.003	0.06	< 0.0005	0.009	< 0.005	< 0.01
04-ARD-124-012	8.3	< 0.00025	3	0.008	< 0.001	< 0.0001	< 0.0005	< 0.001	0.059	< 0.0005	0.009	< 0.005	< 0.01
04-ARD-124-013	9.1	< 0.00025	3.15	0.009	< 0.001	< 0.0001	< 0.0005	< 0.001	0.007	0.0022	0.009	< 0.005	< 0.01
04-ARD-139-001	19.6	< 0.00025	2.78	0.033	< 0.001	< 0.0001	< 0.005	< 0.001	0.22	< 0.0005	0.022	0.032	< 0.01
04-ARD-139-033	12.9	< 0.00025	21.7	0.043	< 0.001	< 0.0001	< 0.0005	< 0.001	0.004	< 0.0005	0.008	< 0.005	< 0.01
04-ARD-139-039	7	< 0.00025	4.96	0.047	< 0.001	< 0.0001	< 0.0005	< 0.001	0.024	< 0.0005	0.006	< 0.005	< 0.01
04-ARD-142-011	9.6	< 0.00025	2.9	0.019	< 0.001	< 0.0001	< 0.0005	< 0.001	0.02	< 0.0005	0.007	< 0.005	< 0.01
04-ARD-142-029	10.1	< 0.00025	4.24	0.013	< 0.001	< 0.0001	< 0.005	< 0.001	0.056	0.0008	0.007	< 0.005	< 0.01
04-ARD-142-040	10.1	< 0.00025	3.56	0.019	< 0.001	< 0.0001	< 0.0005	< 0.001	0.033	< 0.0005	0.007	< 0.005	< 0.01
04-ARD-157-012	12.7	< 0.00025	5.85	0.024	< 0.001	< 0.0001	< 0.0005	< 0.001	0.004	< 0.0005	0.003	< 0.005	< 0.01
04-ARD-168-005	10.3	< 0.00025	5.57	0.003	< 0.001	< 0.0001	< 0.0005	< 0.001	0.084	< 0.0005	0.016	0.006	< 0.01
04-ARD-180-028	8.8	< 0.00025	4.01	0.024	< 0.001	< 0.0001	< 0.0005	< 0.001	0.006	< 0.0005	0.007	< 0.005	< 0.01
04-ARD-180-039	13.4	< 0.00025	4.72	0.043	< 0.001	< 0.0001	< 0.0005	< 0.001	0.054	< 0.0005	0.013	< 0.005	< 0.01
04-ARD-191-003	8.7	< 0.00025	3.14	0.004	< 0.001	< 0.0001	< 0.005	< 0.001	0.017	< 0.0005	0.007	< 0.005	< 0.01
04-ARD-199-033	24.8	< 0.00025	3.8	0.024	< 0.001	< 0.0001	< 0.005	< 0.001	0.73	< 0.0005	0.018	0.06	< 0.01
04-ARD-199-043	11.8	< 0.00025	4.82	0.022	< 0.001	< 0.0001	< 0.005	< 0.001	0.016	< 0.0005	0.009	0.007	< 0.01
04-ARD-200-001	10.6	< 0.00025	3.44	0.005	< 0.001	< 0.0001	< 0.005	< 0.001	0.018	0.0009	0.009	0.011	< 0.01
04-ARD-200-018	13.4	< 0.00025	3.85	0.014	< 0.001	< 0.0001	< 0.0005	< 0.001	0.064	0.0038	0.004	0.008	< 0.01
04-ARD-200-035	10.7	< 0.00025	23.2	0.37	< 0.001	< 0.0001	< 0.0005	< 0.001	0.001	0.0006	0.031	< 0.005	< 0.01
04-ARD-137-011	26.1	< 0.00025	18.5	0.24	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	0.004	< 0.005	< 0.01
04-ARD-164-015	3.3	< 0.00025	1.56	1.27	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.005	< 0.01
04-ARD-171-001	25.8	< 0.00025	7.9	0.071	< 0.001	< 0.0001	< 0.0005	< 0.001	0.001	< 0.0005	0.004	< 0.005	< 0.01
04-ARD-121-025	39.4	< 0.00025	43.2	0.16	< 0.001	< 0.0001	< 0.0005	< 0.001	0.008	0.0011	0.033	0.007	< 0.01
04-ARD-121-029	28.6	< 0.00025	44.3	0.18	< 0.001	< 0.0001	< 0.0005	< 0.001	0.005	< 0.0005	0.12	< 0.005	< 0.01
04-ARD-122-002	13.4	< 0.00025	6.42	0.085	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	0.02	< 0.005	< 0.01
04-ARD-122-014	14.7	< 0.00025	17	0.085	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	0.01	< 0.005	< 0.01
04-ARD-124-003	16.5	< 0.00025	7.85	0.042	< 0.001	< 0.0001	< 0.0005	< 0.001	0.002	< 0.0005	0.032	< 0.005	< 0.01
04-ARD-126-009	8.7	< 0.00025	4.22	0.38	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.005	< 0.01
04-ARD-130-007	8.1	< 0.00025	3.29	0.088	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.005	< 0.01
04-ARD-132-003	34.2	< 0.00025	11.5	0.059	< 0.001	< 0.0001	< 0.0005	< 0.001	0.011	< 0.0005	0.018	< 0.005	< 0.01
04-ARD-132-013	49.9	< 0.00025	15.5	0.082	< 0.001	< 0.0001	< 0.005	< 0.001	0.034	< 0.0005	0.079	0.014	< 0.01
04-ARD-139-011	6.2	< 0.00025	15.1	0.14	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	0.002	< 0.005	< 0.01
04-ARD-139-019	17.5	< 0.00025	12.7	0.058	< 0.001	< 0.0001	< 0.0005	< 0.001	0.009	< 0.0005	0.034	< 0.005	< 0.01
04-ARD-145-022	23.3	< 0.00025	18.8	0.018	< 0.001	< 0.0001	< 0.0005	< 0.001	0.004	< 0.0005	0.008	< 0.005	< 0.01
04-ARD-145-034	6.1	< 0.00025	17.4	0.4	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.005	< 0.01
04-ARD-149-011	< 0.25	< 0.00025	0.81	0.25	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.005	< 0.01
04-ARD-181-004	14.5	< 0.00025	21	0.093	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	0.005	< 0.005	< 0.01
04-ARD-181-018	3.4	< 0.00025	2.14	0.58	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.005	< 0.01
04-ARD-190-002	20.4	< 0.00025	7.53	0.071	< 0.001	< 0.0001	< 0.0005	< 0.001	0.003	< 0.0005	0.01	< 0.005	< 0.01
04-ARD-190-016	90.9	< 0.00025	20.5	0.14	< 0.001	< 0.0001	< 0.005	< 0.001	0.096	0.0006	0.054	0.022	< 0.01
04-ARD-193-016	7.3	< 0.00025	22.7	0.23	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.005	< 0.01
04-ARD-196-006	14.2	< 0.00025	41.4	0.36	< 0.001	< 0.0001	< 0.0005	< 0.001	0.002	< 0.0005	0.014	< 0.005	< 0.01
04-ARD-200-036	53.8	< 0.00025	37.1	0.083	< 0.001	< 0.0001	< 0.005	< 0.001	0.028	< 0.0005	0.036	0.016	< 0.01
04-ARD-171-017	77.3	< 0.00025	17.4	0.099	< 0.001	< 0.0001	< 0.005	< 0.001	0.065	< 0.0005	0.076	0.019	< 0.01
04-ARD-157-006	39.1	< 0.00025	27	0.098	< 0.001	< 0.0001	< 0.0005	< 0.001	0.011	< 0.0005	0.037	0.005	< 0.01
04-ARD-159-012	9.4	< 0.00025	35.3	0.25	< 0.001	< 0.0001	< 0.0005	< 0.001	< 0.001	< 0.0005	0.004	< 0.005	< 0.01
DGM 714-fine	6.14	< 0.00001	6.41	0.272		< 0.0002		0.00035	0.0090	0.00102	0.0139	0.001	0.00017
DGM 718-fine	6.24	0.00002	6.77	0.278		< 0.0002		0.00039	0.0002	0.000309	0.00884	< 0.001	0.00002
DGM 722-fine	6.29	0.00002	12.2	0.278		< 0.0002		0.00018	0.0002	0.000074	0.00918	< 0.001	0.00020
DGM 726-fine	6.68	< 0.00001	5.55	0.214		< 0.0002		0.00044	0.0003	0.000176	0.0106	< 0.001	0.00003
DGM 730-fine	6.19	0.00001	10.2	0.214		< 0.0002		0.00053	0.0007	0.00241	0.0407	0.002	0.00010
DGM 734-fine	3.62	< 0.00001	4.99	0.170		< 0.0002		0.00023	0.0005	0.000153	0.00138	0.006	0.00003
DGM 742-fine	7.23	< 0.00001	9.74	0.321		< 0.0002		0.00035	0.0003	0.000143	0.0109	0.003	0.00004
DGM 738-fine	8.46	< 0.00001	6.65	0.559		< 0.0002		0.00016	0.0004	< 0.000001	0.00099	< 0.001	< 0.00001
DGM 746-fine	10.3	< 0.00001	15.9	0.388		< 0.0002		0.00016	0.0002	< 0.000001	0.00136	< 0.001	< 0.00001
PK-Fines Compos	6.99	< 0.00001	9.06	0.311		< 0.0002		0.00019	0.0008	0.000010	0.00464	< 0.001	0.00003
DGM 717-coarse	6.59	0.00001	20.9	0.219		< 0.0002		0.00043	0.0002	0.000137	0.0138	0.001	0.00004
DGM 721-coarse	5.46	< 0.00001	41.3	0.184		< 0.0002		0.00050	0.0003	0.000005	0.00568	< 0.001	0.00002
DGM 725-coarse	7.07	< 0.00001	12.1	0.140		< 0.0002		0.00018	0.0002	0.000017	0.00769	< 0.001	0.00003
DGM 729-coarse	7.74	< 0.00001	34.7	0.128		< 0.0002		0.00026	0.0037	0.00109	0.117	0.001	0.00027
DGM 733-coarse	2.59	< 0.00001	3.88	0.0701		< 0.0002		0.00010	0.0002	0.000047	0.00187	< 0.001	< 0.00001
DGM 737-coarse	2.90	< 0.00001	5.44	0.882		< 0.0002		0.00009	0.0001	0.000001	0.00013	< 0.001	< 0.00001
DGM 713-coarse	5.46	0.00001	12.2	0.172		< 0.0002		< 0.00001	0.0008	0.000646	0.0490	< 0.001	0.00006
DGM 741-coarse	6.09	< 0.00001	27.7	0.138		< 0.0002		0.00016	0.0004	0.000094	0.0209	< 0.001	0.00006
DGM 745-coarse	5.49	< 0.00001	10.5	0.582		< 0.0002		0.00011	0.0002	< 0.000001	0.00013	< 0.001	< 0.00001
PK-Coarse Compo	5.66	< 0.00001	24.9	0.263		< 0.0002		0.00008	0.0002	0.000019	0.00167	< 0.001	0.00002

ATTACHMENT 8.II.8

HUMIDITY CELL SAMPLE DATA

Humidity Cell Sample Data

HC 1 - Kimberlite

S-Total:	0.03	%
S^{2-}:	0.02	%
NP:	228.5	t $CaCO_3$/1000 t
CaNP:	13.9	t $CaCO_3$/1000 t
AP:	0.7	t $CaCO_3$/1000 t

Weeks	#	0	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	27	28	29	30	31	32	33	34	35	36
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05	7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		630	410	400	430	470	470	440	410	430	455	405	490	420	415	430	440	495	490	485	470	475	475	480	465	500	475	455	480	480	505	465	480	490	505	425	495	480
pH	Effluent (units)	8.33	8.10	7.81	8.03	8.20	7.91	7.88	8.18	8.15	7.99	7.74	7.77	8.23	7.62	7.94	8.12	7.89	7.80	7.82	7.95	7.58	7.85	7.60	7.89	8.01	7.45	7.67	7.68	7.78	8.09	7.89	8.04	7.78	7.91	7.87	7.87	7.35
Cond.	(umhos/cm)	425	249	205	252	293	254	225	162	186	239	133	172	154	165	132	155	158	152	148	133	142	133	147	131	122	134	106	127	125	122	127	131	116	133	121	127	127
ORP	mV	170	155	150	95	105	90	115	120	125	95	95	120	120	200	130	155	150	130	150	170	165	130	130	180	150	145	185	170	190	160	195	135	160	160	180	155	150
Sulphate	(mg/L)	1	1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	1	< 1	< 1	1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	1	< 1	< 1	< 1	1	< 1	< 1
Acidity	(mg CaCO3/L)		2	2	2	1	2	1	2	< 1	2	2	3	< 1	3	5	2	2	1	3	2	4	2	3	2	1	4	4	2	3	2	2	1	4	2	3	3	7
Alkalinity	(mg CaCO3/L)	26	14	20	24	26	24	24	19	20	26	20	36	22	23	24	25	30	28	27	28	24	28	28	26	27	28	25	27	29	28	28	29	28	32	30	32	32
F	mg/L																																					
Al	mgP/L	< 0.005		0.048		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		0.006		0.009		< 0.005		< 0.005		< 0.005		< 0.005		0.01		< 0.005		< 0.005		< 0.005
Sb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
As	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.004		< 0.001		< 0.001		0.014		0.014		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ba	mg/L	0.44		0.25		0.288		0.27		0.22		0.18		0.22		0.21		0.3		0.29		0.28		0.32		0.29		0.24		0.24		0.24		0.27		0.26		0.26
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	0.89		0.55		0.77		0.62		0.6		0.45		0.51		0.5		0.58		0.54		0.5		0.55		0.48		0.39		0.49		0.53		0.38		0.35		0.34
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		0.0004		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	30.3		13.5		15.7		15.3		13.3		11.5		12		12.6		14.5		13.0		12.6		13.0		12.1		10.3		11.2		11.6		10.3		9.8		11.0
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.004		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Mg	mg/L	11.6		5.52		8.35		6.54		5.54		3.74		4.77		4.02		4.84		4.43		3.79		3.65		3.64		2.81		3.22		3.3		2.51		2.5		2.58
Mn	mg/L	< 0.001		0.002		0.0021		0.002		0.002		0.001		0.002		0.002		0.001		0.002		0.001		0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001
Hg	mg/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		0.0014		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Ni	mg/L	0.002		0.002		0.0013		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
PO4	mg/L	< 0.15		< 0.15		< 0.15		0.2		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	ug/L	20.1		11.8		14.2		11.1		10.1		5.7		9.9		7.1		9.6		7.7		7.1		7.5		7.6		5.7		7.6		7.3		6.7		5.7		6.7
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
SiO2	mg/L	3		3.5		9.45		9.9		8.9		8		9.4		9.9		14.1		15.4		13.3		14.0		15.5		12.9		14.1		18.2		12.3		12.5		13.4
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	3.38		< 0.05		5.29		4.24		4.08		1.78		3.81		2.13		3.69		3.17		2.64		2.68		2.79		2.00		2.70		2.44		2.10		1.90		2.03
Sr	mg/L	0.21		0.079		0.09		0.074		0.062		0.046		0.055		0.05		0.064		0.058		0.054		0.058		0.054		0.043		0.048		0.049		0.045		0.042		0.047
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		0.0002		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
V	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01

Humidity Cell Sample Data

HC 2 - Kimberlite

S-Total:	0.03	%
S^{2-}:	0.02	%
NP:	131.7	t $CaCO_3$/1000 t
CaNP:	5	t $CaCO_3$/1000 t
AP:	0.7	t $CaCO_3$/1000 t

Weeks	#	0	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	27	28	29	30	31	32	33	34	35	36
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05	7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		540	400	415	405	490	500	395	370	370	485	365	375	390	420	400	450	480	450	415	465	455	365	420	440	485	475	470	485	495	490	390	470	485	465	470	480	465
pH	Effluent (units)	8.78	8.57	8.47	8.40	8.46	8.34	8.23	7.49	7.57	8.24	8.12	8.27	8.35	8.29	8.14	8.31	8.30	8.16	8.37	8.27	8.04	8.33	8.22	8.16	8.24	7.68	7.81	8.06	8.02	8.29	8.04	8.26	7.98	8.03	7.90	7.83	7.38
Cond.	(umhos/cm)	128	90	94	94	107	83	85	81	72	100	63	56	57	83	75	89	91	83	74	81	88	63	83	84	76	84	76	83	85	76	63	86	77	84	89	80	80
ORP	mV	130	155	130	75	80	100	105	145	105	75	90	120	105	80	140	115	120	110	135	150	130	100	115	170	140	130	150	160	165	150	170	110	170	140	165	130	150
Sulphate	(mg/L)	14	9	8	7	6	6	5	10	4	6	3	3	3	4	4	6	5	3	4	5	3	2	3	3	3	1	3	3	4	3	2	2	< 1	2	3	2	2
Acidity	(mg CaCO3/L)							< 1	2	3	< 1	< 1	< 1		< 1	< 1		< 1	< 1	< 1	< 1	3		< 1	1	< 1	2	2	< 1	1	< 1	1	< 1	3	2	3	3	6
Alkalinity	(mg CaCO3/L)	46	33	34	35	39	36	32	22	28	38	22	23	21	31	32	38	41	36	34	39	38	29	35	34	37	37	36	35	39	35	27	36	35	37	38	37	37
F	mg/L																																					
Al	mg/P/L	0.051		0.076		0.016		0.038		0.074		0.073		0.038		0.033		0.011		0.007		0.03		0.041		0.012		0.019		0.016		0.057		0.011		0.26		0.006
Sb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
As	mg/L	0.002		0.001		0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.004		< 0.001		< 0.001		0.001		0.002		0.006		0.001		< 0.001		< 0.001		0.001
Ba	mg/L	0.32		0.19		0.197		0.15		0.11		0.11		0.11		0.17		0.19		0.17		0.18		0.18		0.18		0.17		0.17		0.12		0.19		0.20		0.17
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	0.32		0.29		0.33		0.21		0.16		0.13		0.11		0.19		0.2		0.14		0.13		0.13		0.12		0.1		0.11		0.08		0.06		0.06		0.06
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	7.47		4.69		6.15		4.45		3.57		3.34		3.35		5.35		6.50		4.70		5.45		5.45		5.76		5.40		5.83		4.42		5.33		5.81		5.64
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Fe	mg/L	0.08		0.07		< 0.05		0.06		< 0.05		0.1		0.09		< 0.05		< 0.05		< 0.05		< 0.05		0.07		< 0.05		< 0.05		< 0.05		0.09		< 0.05		0.11		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001
Mg	mg/L	4.02		2.41		3.17		2.32		2.29		2.05		1.82		2.62		3.51		2.56		3.09		2.93		3.23		3.20		3.55		2.79		2.68		4.41		2.84
Mn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		0.001		0.002		< 0.001		0.001		0.001		< 0.001		0.001		< 0.001		0.001		< 0.001		0.003		< 0.001
Hg	mg/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.011		0.007		0.0035		0.001		< 0.0005		< 0.0005		< 0.0005		< 0.0005		0.0006		0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Ni	mg/L	0.002		0.002		0.0011		0.002		0.003		0.004		0.002		0.002		< 0.001		< 0.001		0.001		0.002		< 0.001		0.001		< 0.001		0.003		< 0.001		0.012		< 0.001
PO4	mg/L	< 0.15		< 0.15		< 0.15		0.2		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	ug/L	3.9		6.1		3.38		2.3		2.1		1.7		1.8		2.4		3.3		2.2		2.4		2.5		2.3		2.3		2.5		1.9		2.0		2.1		2.0
Se	mg/L	0.003		0.003		0.0011		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
SiO2	mg/L	4.3		4.7		6.91		5.5		5.4		4.7		4.6		6.1		8.1		6.7		7.1		6.9		8.1		8.1		8.5		8.1		6.5		9.8		6.3
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	11.5		2.45		9.26		6.45		5.64		4.5		4.31		5.54		7.17		5.56		5.97		5.89		5.34		5.15		5.84		3.95		3.68		4.02		3.31
Sr	mg/L	0.075		0.048		0.065		0.045		0.037		0.033		0.033		0.049		0.066		0.048		0.058		0.055		0.06		0.057		0.06		0.044		0.055		0.064		0.059
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.003		< 0.001
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
V	mg/L	0.021		0.023		0.031		0.024		0.023		0.021		0.019		0.028		0.033		0.026		0.029		0.03		0.029		0.028		0.029		0.03		0.025		0.028		0.029
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		0.006		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01

Humidity Cell Sample Data

HC 3 - Hypabyssal Kimberlite

S-Total:	0.02	%
S^{2-}:	0.01	%
NP:	221.1	t $CaCO_3$/1000 t
CaNP:	6.1	t $CaCO_3$/1000 t
AP:	0.5	t $CaCO_3$/1000 t

Weeks	#	0	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	27	28	29	30	31	32	33	34	35	36
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05	7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		625	435	460	450	440	485	470	390	400	490	410	395	480	465	490	460	450	495	415	460	460	405	440	510	415	475	450	480	490	510	455	505	485	465	430	500	485
pH	Effluent (units)	8.71	8.93	8.81	8.88	8.69	8.77	8.63	8.48	8.93	8.72	8.85	8.49	8.89	8.39	8.60	8.62	8.62	8.42	8.46	8.78	8.61	8.44	8.56	8.38	8.78	8.55	8.40	8.46	8.49	8.75	8.32	8.48	8.37	8.36	8.31	8.31	7.85
Cond.	(umhos/cm)	196	127	158	166	165	135	157	109	116	139	114	142	109	121	118	105	91	105	95	94	110	84	105	121	97	114	97	103	106	92	109	114	100	110	104	110	120
ORP	mV	140	145	120	75	80	80	90	90	75	60	65	110	85	75	100	105	105	100	120	140	110	90	100	170	120	100	120	130	130	130	150	110	150	120	140	110	120
Sulphate	(mg/L)	7	6	8	12	10	10	8	4	4	7	4	4	5	4	4	4	2	1	4	4	2	2	2	2	2	1	2	3	3	2	2	3	1	1	1	2	1
Acidity	(mg CaCO3/L)																																					9
Alkalinity	(mg CaCO3/L)	40	26	44	37	44	42	42	44	41	46	40	63	44	42	48	46	43	45	39	46	45	39	43	48	42	48	45	43	48	43	47	48	45	49	46	49	47
F	mg/L																																					
Al	mg/P/L	< 0.005		0.061		0.005		< 0.005		0.02		0.015		< 0.005		< 0.005		< 0.005		0.007		0.01		< 0.005		0.011		< 0.005		< 0.005		0.01		< 0.005		< 0.005		< 0.005
Sb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
As	mg/L	0.002		0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.006		0.001		0.001		0.001		0.005		0.001		0.001		< 0.001		< 0.001		< 0.001
Ba	mg/L	0.044		0.022		0.017		0.018		0.013		0.015		0.018		0.024		0.021		0.023		0.028		0.039		0.032		0.038		0.042		0.037		0.046		0.046		0.048
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	0.62		0.57		0.56		0.55		0.4		0.4		0.42		0.48		0.37		0.32		0.35		0.39		0.33		0.33		0.42		0.43		0.28		0.28		0.24
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	9.96		4.46		4.48		4.18		2.7		2.83		3.48		4.71		4.01		3.62		3.98		4.47		4.22		4.19		4.43		4.68		4.06		4.33		4.48
Cr	mg/L	0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.014		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Mg	mg/L	0.56		0.47		0.45		0.35		0.4		0.38		0.45		0.57		0.48		0.5		0.53		0.54		0.58		0.57		0.63		0.65		0.47		0.52		0.53
Mn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Hg	mg/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Ni	mg/L	< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
PO4	mg/L	< 0.15		< 0.15		< 0.15		0.2		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	ug/L	12.4		11		9.46		8.8		8		7.9		8		9.4		7.9		6.9		7.4		8.0		8.5		8.2		9.2		9.2		7.8		7.8		7.8
Se	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
SiO2	mg/L	8.7		20.3		30.8		39.6		29.6		32.5		39		46.9		44.2		38.9		41.8		44.2		48.2		51.1		55.3		67.7		45		47.7		44.4
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	19.1		15.4		19.1		16.4		15.2		14.8		13.7		15.2		12.6		12		13.3		13.0		12.1		12.5		15.1		13.3		10.4		11.1		10.2
Sr	mg/L	0.16		0.089		0.087		0.078		0.054		0.053		0.064		0.08		0.068		0.063		0.072		0.077		0.072		0.075		0.078		0.079		0.07		0.074		0.077
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.014		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		0.002		0.0015		0.003		0.002		0.001		0.002		0.001		0.002		0.001		< 0.001		0.001		< 0.001		0.002		0.001		0.001		< 0.001		< 0.001		< 0.001
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
V	mg/L	< 0.001		0.001		0.001		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		0.003		0.002		0.002		0.002
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01

Humidity Cell Sample Data

HC 4 - Tuffisitic Kimberlite Breccia

S-Total:	0.02	%
S^{2-}:	0.02	%
NP:	88.7	t $CaCO_3$/1000 t
CaNP:	3.2	t $CaCO_3$/1000 t
AP:	0.6	t $CaCO_3$/1000 t

Weeks	#	0	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	27	28	29	30	31	32	33	34	35	36
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05	7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		590	410	435	390	465	490	485	485	485	485	400	410	480	480	460	480	435	485	485	480	480	490	460	445	500	490	480	485	485	495	480	495	490	465	435	485	485
pH	Effluent (units)	8.32	8.37	8.43	8.56	8.54	8.32	8.33	8.21	8.34	8.37	8.35	8.16	8.51	8.31	8.41	8.25	8.23	7.98	8.33	8.30	8.12	8.05	8.20	8.01	8.24	7.55	7.97	7.87	8.04	8.11	7.89	8.22	7.98	7.93	7.71	7.83	7.45
Cond.	(umhos/cm)	197	84	104	86	136	110	106	86	95	92	62	54	72	84	70	72	53	68	65	61	69	66	69	62	61	70	64	67	64	60	62	80	66	65	58	62	62
ORP	mV	150	145	120	80	80	90	90	90	90	75	80	110	95	85	105	120	100	100	120	150	110	110	105	160	120	110	130	135	145	165	165	120	150	110	100	120	125
Sulphate	(mg/L)	45	13	19	9	18	16	11	8	6	6	2	2	5	3	3	3	1	< 1	3	2	< 1	2	< 1	< 1	1	< 1	1	1	< 1	1	< 1	1	< 1	< 1	2	1	< 1
Acidity	(mg CaCO3/L)								1				1					< 1	1			1	1	< 1	1	< 1	1	1	1	1	1	1	1	1	1	2	2	5
Alkalinity	(mg CaCO3/L)	38	24	24	25	32	33	33	32	31	34	23	22	31	31	30	31	25	31	31	31	30	31	28	25	30	28	28	26	27	26	28	34	30	29	25	30	29
F	mg/L																																					
Al	mg/P/L	0.043		0.12		0.037		0.022		0.016		0.093		0.021		0.021		0.017		0.012		0.02		0.022		0.03		0.014		0.015		0.023		0.081		0.035		0.025
Sb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
As	mg/L	0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.004		< 0.001		< 0.001		0.003		0.005		< 0.001		0.008		< 0.001		< 0.001
Ba	mg/L	0.027		0.014		0.01		0.011	09-1365-1004	0.007		0.007		0.008		0.007		0.008		0.008		0.009		0.009		0.009		0.01		0.008		0.007		0.01		0.007		0.008
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	0.12		0.1		0.11		0.09		0.08		0.05		0.06		0.06		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		0.0006		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	9.34		4.06		4.75		4.1		3.33		2.53		3.33		3.47		3.4		3.05		3.44		3.56		3.83		3.64		3.74		3.89		4.07		3.31		3.70
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.004		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Fe	mg/L	0.05		0.07		0.01		< 0.05		< 0.05		0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.002		0.001		0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		0.001		0.001		0.001		0.001		< 0.001
Mg	mg/L	4.01		1.75		2.14		1.78		1.53		1.23		1.46		1.48		1.31		1.6		1.61		1.60		1.94		1.84		1.93		2.02		1.97		1.58		1.67
Mn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001
Hg	mg/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.073		0.025		0.025		0.013		0.0059		0.0015		0.0035		0.0029		0.0015		0.002		0.0018		0.0013		0.0011		0.0011		0.0011		0.0012		0.0011		0.0008		0.001
Ni	mg/L	0.006		0.003		0.0012		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	mg/L	3.6		4.4		2.17		1.9		1.7		1.3		1.7		1.6		1.8		1.5		1.8		1.5		1.6		1.6		1.7		1.7		1.7		1.4		1.5
Se	mg/L	0.003		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
SiO2	mg/L	4.5		3.4		4.89		3.9		4.6		4.3		4.6		5		4.6		5.4		5.3		5.1		6.1		6.4		6.5		7.9		5.9		5.3		5
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	24.7		6.85		14.1		11.8		10.3		7.15		8.92		8.73		6.61		8.13		7.45		7.11		6.80		6.48		7.08		6.31		5.02		4.39		4.01
Sr	mg/L	0.1		0.048		0.054		0.044		0.036		0.026		0.034		0.035		0.031		0.037		0.038		0.038		0.042		0.041		0.04		0.041		0.043		0.036		0.04
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	< 0.0005		< 0.0005		0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
V	mg/L	0.024		0.023		0.03		0.032		0.03		0.028		0.027		0.033		0.028		0.028		0.029		0.029		0.028		0.026		0.026		0.032		0.028		0.025		0.026
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01

Humidity Cell Sample Data

HC 5 - Kimberlite

S-Total:	0.02	%
S^{2-}:	0.01	%
NP:	168.6	t $CaCO_3$/1000 t
CaNP:	3	t $CaCO_3$/1000 t
AP:	0.4	t $CaCO_3$/1000 t

Weeks	#	0	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	27	28	29	30	31	32	33	34	35	36
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05	7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		620	410	550	435	500	500	420	490	420	495	490	490	490	410	500	475	455	490	490	470	480	485	480	480	475	430	470	480	485	505	455	510	425	470	490	495	490
pH	Effluent (units)	8.56	8.79	8.63	8.58	8.52	8.51	8.42	8.36	8.57	8.53	8.47	8.54	8.62	8.40	8.32	8.37	8.41	8.07	8.31	8.40	8.22	8.13	8.23	8.12	8.38	8.26	8.12	8.16	8.22	8.48	8.02	8.28	8.18	8.09	7.91	8.00	7.70
Cond.	(umhos/cm)	343	146	185	163	165	122	110	113	125	129	120	105	96	95	106	99	86	103	101	98	109	106	121	121	97	97	100	94	94	89	93	103	75	95	99	90	89
ORP	mV	160	185	120	95	85	100	90	90	85	75	90	110	95	95	110	140	110	110	130	150	120	100	110	130	140	120	130	135	140	140	155	130	150	120	105	120	130
Sulphate	(mg/L)	36	18	31	20	17	14	7	11	8	10	7	7	7	4	6	5	4	4	3	4	3	3	3	2	3	1	7	4	4	4	3	3	1	3	3	3	3
Acidity	(mg CaCO3/L)																					< 1	1	< 1	1		< 1	1	1	< 1		2	< 1	1	1	3	3	6
Alkalinity	(mg CaCO3/L)	62	44	50	51	51	50	42	45	43	49	46	46	46	38	48	44	41	45	45	43	41	43	43	40	40	35	22	38	41	40	41	42	34	43	42	42	41
F	mg/L																																					
Al	mg/L	< 0.005		0.05		< 0.005		< 0.005		0.008		0.006		0.005		0.017		< 0.005		< 0.005		0.01		< 0.005		0.006		< 0.005		0.006		0.01		0.013		< 0.005		< 0.005
Sb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
As	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ba	mg/L	0.087		0.039		0.039		0.043		0.036		0.052		0.051		0.068		0.06		0.078		0.082		0.11		0.093		0.092		0.083		0.077		0.08		0.096		0.09
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	2.68		2.53		2.31		1.59		1.83		1.83		1.5		1.53		1.30		1.37		1.14		1.39		1.11		1.10		1.22		1.18		0.67		0.85		0.71
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		0.0006		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	13.5		6.64		5.98		4.69		4.42		5.3		4.93		6.64		5.73		6.25		6.69		7.93		7.19		6.45		6.11		6.31		5.08		5.62		5.68
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Mg	mg/L	7.78		4.47		4.14		3.05		3.55		4.16		4		4.99		4.58		5.55		5.73		6.5		6.39		5.92		5.88		5.67		3.67		4.71		4.48
Mn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Hg	mg/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.0025		0.0024		0.0013		0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	ug/L	9.6		7		5.37		3.9		4.2		4.4		4		4.4		4		3.5		3.4		3.9		3.9		4.1		4.5		4.7		3.8		4.3		4.2
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
SiO2	mg/L	6.2		5.9		6.89		5.5		5.9		6.7		6.3		7.6		7.0		7.6		7.1		7.6		8.3		8.5		8.9		10.2		6		7.6		6.6
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	31.1		13.8		13.8		8.36		9		7.89		6.38		6.03		4.54		4.60		3.79		3.69		2.99		2.62		2.70		2.03		1.30		1.56		1.25
Sr	mg/L	0.16		0.091		0.08		0.058		0.06		0.071		0.066		0.084		0.074		0.086		0.09		0.11		0.094		0.088		0.082		0.08		0.063		0.078		0.075
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
V	mg/L	0.003		0.005		0.0051		0.005		0.005		0.005		0.004		0.005		0.005		0.004		0.004		0.004		0.004		0.004		0.005		0.006		0.005		0.004		0.005
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01

Humidity Cell Sample Data

HC 6 - Kimberlite

S-Total:	0.04	%
S^{2-}:	0.04	%
NP:	67.7	t $CaCO_3$/1000 t
CaNP:	10.2	t $CaCO_3$/1000 t
AP:	1.3	t $CaCO_3$/1000 t

Weeks	#	0	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	27	28	29	30	31	32	33	34	35	36
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05	7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	395	535	460	505	475	460	490	490	505	480	450	470	490	505	480	485	480	415	480	470	460	480	495	510	480	485	485	490	500	400	505	490	485	415	480	400
pH	Effluent (units)	7.80	8.13	8.06	8.12	8.30	7.75	7.95	7.80	7.95	8.12	8.13	8.12	7.71	7.62	8.02	7.88	8.05	7.86	8.24	8.01	8.01	7.78	8.14	7.74	8.23	7.93	7.64	7.74	7.67	8.04	7.64	8.01	7.61	7.57	7.64	7.81	7.41
Cond.	(umhos/cm)	194	176	142	123	125	98	101	91	104	108	95	89	104	105	88	82	69	77	76	58	72	63	75	76	65	68	61	63	63	61	65	71	66	55	73	65	65
ORP	mV	200	175	140	90	100	100	100	115	95	110	100	120	125	100	110	135	135	100	120	150	120	110	100	130	140	125	140	130	140	145	170	140	180	135	120	130	135
Sulphate	(mg/L)	32	34	25	20	18	18	16	15	15	16	13	14	13	10	11	12	11	9	14	8	8	9	8	6	8	6	1	7	8	7	7	7	7	6	7	6	8
Acidity	(mg CaCO3/L)	2	1	< 1	1		2	1	< 1	1	< 1	1	< 1	2	2	1	2	1	1	< 1	1	1	1	< 1	1	< 1	< 1	1	1	2	1	2	1	3	2	3	2	4
Alkalinity	(mg CaCO3/L)	25	23	30	26	29	26	26	25	25	28	22	23	25	23	22	23	21	23	20	22	22	20	24	24	23	22	41	20	22	22	18	23	23	18	21	24	20
F	mg/L																																					
Al	mgP/L	0.068		0.077		0.024		0.025		0.022		0.03		0.026		0.015		0.018		0.03		0.043		0.037		0.16		0.03		0.013		0.091		0.011		0.039		1.65
Sb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
As	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.004		< 0.001		< 0.001		0.002		0.003		< 0.001		< 0.001		< 0.001		< 0.001
Ba	mg/L	0.13		0.054		0.049		0.055		0.037		0.041		0.044		0.052		0.044		0.04		0.041		0.048		0.04		0.039		0.035		0.033		0.045		0.043		0.044
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.06		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		0.0009		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	15.7		10.2		8.58		7.34		6.63		6.9		7.01		8.32		6.43		6.29		5.75		6.24		5.94		5.33		5.45		5.77		5.6		5.45		6.02
Cr	mg/L	0.003		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		0.001		< 0.001		< 0.001		0.002
Co	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.008
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.003		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Fe	mg/L	0.12		0.14		< 0.05		0.07		< 0.05		0.07		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.07		0.17		< 0.05		< 0.05		0.15		< 0.05		< 0.05		2.12
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.004		0.003		0.0018		0.002		0.001		0.002		0.001		0.001		0.002		0.001		0.002		0.002		0.002		0.001		0.002		0.002		0.002		0.002		0.007
Mg	mg/L	6.76		4.4		3.45		2.97		2.89		2.95		3.01		3.03		2.68		2.92		2.51		2.58		3.17		2.4		2.44		2.75		2.08		2.45		8.7
Mn	mg/L	0.003		0.002		0.0043		0.002		0.001		0.002		0.002		0.002		0.001		0.002		0.002		0.002		0.002		0.002		0.001		0.002		0.001		0.002		0.016
Hg	mg/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.024		0.015		0.0066		0.0033		0.0017		0.0011		0.0007		0.0006		0.0005		0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Ni	mg/L	0.005		0.003		0.0021		0.003		0.001		0.003		0.002		0.002		0.002		0.002		0.003		0.003		0.008		0.002		0.001		0.005		< 0.001		0.003		0.078
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	ug/L	3.4		2.9		2.24		1.9		1.7		1.8		2.1		2.9		3.2		2.9		2.7		3.1		3		2.8		3		2.9		2.8		2.8		2.8
Se	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
SiO2	mg/L	4.3		3.7		3.94		3.6		3.2		3.6		3.4		3.9		3.8		4		3.8		3.7		5		4.4		4.4		5.2		3.7		4		10.7
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	9.29		1.26		5.66		4.62		3.98		3.82		3.39		3.16		2.55		2.6		2.18		2.3		1.92		1.66		1.82		1.38		1.21		1.25		0.92
Sr	mg/L	0.14		0.097		0.076		0.065		0.057		0.06		0.061		0.065		0.056		0.056		0.05		0.055		0.052		0.047		0.046		0.047		0.048		0.05		0.056
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.007
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
V	mg/L	0.01		0.017		0.019		0.02		0.017		0.019		0.015		0.019		0.019		0.016		0.018		0.019		0.019		0.018		0.018		0.02		0.02		0.019		0.021
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01

Humidity Cell Sample Data

	S-Total:	0.02	%
	S^{2-}:	0.02	%
HC 7 - Granite	**NP:**	3.13	t $CaCO_3$/1000 t
04-ARD-120-025	**CaNP:**	1.5151514467	t $CaCO_3$/1000 t
04-ARD-120-026	**AP:**	0.6	t $CaCO_3$/1000 t
04-ARD-120-027			

Weeks	#	0	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	27	28	29	30	31	32	33	34	35	36
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05	7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		580	465	480	420	505	500	435	490	475	450	370	420	490	425	415	400	490	500	500	475	480	480	400	500	450	475	400	475	485	510	465	510	495	490	390	490	455
pH	Effluent (units)	7.35	7.81	7.60	7.65	8.16	7.90	7.78	7.72	7.34	7.62	7.93	7.77	7.89	7.74	8.09	7.36	7.85	7.70	8.13	7.94	7.82	7.68	7.94	7.56	7.84	7.64	7.46	7.43	7.69	7.67	7.31	7.60	7.04	7.38	7.30	7.45	6.96
Cond.	(umhos/cm)	55	59	42	41	49	37	32	36	39	35	19	25	40	27	24	20	31	32	32	27	33	29	21	35	22	31	17	30	30	28	31	30	26	29	15	29	24
ORP	mV	180	185	130	95	95	115	100	110	100	100	90	130	130	100	105	120	130	100	115	150	115	110	100	130	130	130	200	130	135	140	160	130	160	130	110	140	130
Sulphate	(mg/L)	8	7	3	2	< 1	1	< 1	< 1	1	< 1	< 1	1	< 1	< 1	1	1	< 1	< 1	1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1
Acidity	(mg CaCO3/L)	2	1	2	2	1	2	2	1	1	1	< 1	< 1	1	1	1	2	1	1	1	1	2	2	1	2	1	1	1	1	1	2	2	1	4	2	2	2	3
Alkalinity	(mg CaCO3/L)	11	20	13	14	17	16	11	14	14	13	6	10	14	10	11	8	14	13	14	13	14	12	8	13	9	12	6	11	12	12	11	11	11	11	5	12	10
F	mg/L																																					
Al	mg/P/L	0.069		0.11		0.081		0.068		0.074		0.096		0.071		0.088		0.074		0.076		0.079		0.071		0.082		0.088		0.092		0.1		0.071		0.092		0.077
Sb	mg/L	0.002		0.004		0.0047		0.003		0.003		< 0.001		0.002		0.002		0.003		0.002		0.002		0.001		0.001		< 0.001		0.002		0.001		0.001		< 0.001		0.001
As	mg/L	0.025		0.005		0.0056		0.005		0.006		0.004		0.004		0.005		0.005		0.007		0.005		0.004		0.004		0.004		0.004		0.004		0.003		0.003		0.003
Ba	mg/L	0.013		0.011		0.021		0.015		0.016		0.008		0.015		0.01		0.017		0.017		0.017		0.022		0.013		0.009		0.016		0.015		0.016		0.008		0.013
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	4.63		3.98		5.81		4.08		4.77		2.3		4.59		4.1		5.38		4.75		4.82		2.99		3.82		2.44		4.59		4.69		3.96		1.97		3.65
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.003		0.003		0.0017		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Mg	mg/L	0.45		0.51		0.58		0.35		0.41		0.17		0.3		0.23		0.34		0.33		0.3		0.18		0.25		0.17		0.33		0.32		0.23		0.13		0.24
Mn	mg/L	0.006		0.033		0.037		0.017		0.018		0.003		0.013		0.008		0.013		0.01		0.01		0.004		0.004		0.002		0.002		< 0.001		< 0.001		< 0.001		< 0.001
Hg	mg/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.014		0.0079		0.0046		0.0023		0.0019		0.0007		0.0016		0.001		0.0015		0.001		0.0009		< 0.0005		< 0.0005		< 0.0005		0.0009		0.001		0.0011		0.0006		0.0012
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	ug/L	2.6		2		1.03		0.6		0.6		0.4		0.6		0.4		0.8		0.5		0.4		0.4		0.4		0.4		0.4		0.6		0.5		0.4		0.3		0.3
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
SiO2	mg/L	1.7		1.2		2.08		1.4		1.6		1		1.5		1.3		1.6		1.7		1.8		0.8		1.3		1.2		1.9		1.9		1.1		0.7		0.8
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	3.19		< 0.05		0.6		0.29		0.28		0.13		0.19		0.13		< 0.05		0.18		0.16		0.09		0.15		0.09		0.15		0.1		0.09		0.06		< 0.05
Sr	mg/L	0.043		0.041		0.05		0.031		0.034		0.015		0.027		0.021		0.03		0.026		0.026		0.015		0.019		0.012		0.021		0.021		0.018		0.008		0.015
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	< 0.0005		0.003		0.0042		0.0027		0.0037		0.001		0.0026		0.0023		0.0024		0.0019		0.0019		0.0006		0.0012		0.0008		0.0013		0.0014		0.0008		< 0.0005		0.0008
V	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01

Humidity Cell Sample Data

	S-Total:	0.03	%
HC 8 - Granite	**S^{2-}:**	0.03	%
04-ARD-142-010	**NP:**	4.93	t $CaCO_3$/1000 t
04-ARD-142-011	**CaNP:**	1.52	t $CaCO_3$/1000 t
04-ARD-142-012	**AP:**	1.03	t $CaCO_3$/1000 t

Weeks	#	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		570	440	435	460	370	495	490	485	415	395	405	490	390	400	505	405	445	450	405	420	390	425	400	500	440
pH	Effluent (units)	7.41	7.95	7.35	7.83	8.16	7.57	7.80	7.87	7.75	7.71	7.86	7.79	8.09	7.82	7.58	8.10	8.03	8.11	8.27	8.14	8.11	7.83	8.22	7.60	7.87
Cond.	(umhos/cm)	46	43	39	43	20	33	38	32	29	24	21	33	26	25	19	25	29	26	19	22	22	26	25	36	24
ORP	mV	180	170	120	95	85	120	110	120	100	100	105	120	110	100	105	120	120	100	110	150	105	110	105	140	130
Sulphate	(mg/L)	1	2	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	1	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1	< 1
Acidity	(mg CaCO3/L)	2	1	< 1	1	< 1	2	1	1	2	1	< 1	< 1	< 1	1	1	1	1	< 1	< 1	< 1	< 1	2	< 1	1	< 1
Alkalinity	(mg CaCO3/L)	10	13	10	16	7	14	13	13	10	9	7	13	8	9	7	11	13	11	9	11	8	11	9	14	11
Total P	mg/L																									
TDP	mgP/L																									

Weeks	#	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Date		7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05	30-Aug-05	6-Sep-05	13-Sep-05	20-Sep-05	27-Sep-05	4-Oct-05	11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		395	420	405	410	455	430	380	415	440	370	445	440	440	395	480	475	490	450	475	395	505	465	475	485	450
pH	Effluent (units)	7.60	7.84	7.64	8.07	8.00	7.82	8.12	7.42	7.91	7.35	7.58	7.18	7.31	7.71	7.57	7.60	7.45	7.71	7.63	7.37	7.34	7.29	7.27	7.40	7.22
Cond.	(umhos/cm)	22	24	26	28	35	30	22	23	34	22	37	33	38	25	35	31	33	30	31	20	29	26	29	31	29
ORP	mV	160	195	130	140	160	160	120	150	135	115	135	140	130	195	175	100	150	150	200	140	150	145	180	170	150
Sulphate	(mg/L)	< 1	< 1	4	< 1	2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	1	1
Acidity	(mg CaCO3/L)	< 1	< 1	1	1	1	1	< 1	3	1	2	2	4	3	1	1	< 1	< 1	< 1	2	1	1	1	1	2	2
Alkalinity	(mg CaCO3/L)	9	10	10	12	15	12	7	9	14	8	18	14	14	11	16	14	15	14	14	9	14	14	14	12	12

Weeks	#	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
Date		29-Nov-05	6-Dec-05	########	########	########	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	########	########	########	7-Mar-06	########	########	########	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		495	445	435	500	485	435	425	430	450	425	445	485	500	425	445	440	450	425	380	475	410	495	430	460	430
pH	Effluent (units)	7.46	7.45	7.23	7.16	7.20	7.25	7.67	7.08	7.49	7.52	7.17	7.15	7.22	7.81	7.77	7.40	7.37	7.51	7.49	7.59	7.58	7.70	7.26	7.38	7.45
Cond.	(umhos/cm)	31	26	20	20	26	20	25	28	25	32	25	31	31	20	22	25	20	16	13	24	14	24	15	19	15
ORP	mV	150	140	165	185	180	175	185	170	170	180	195	210	150	185	155	160	170	110	95	120	140	140	110	100	140
Sulphate	(mg/L)	< 1	2	1	< 1	< 1	1	1	1	1	1	1	< 1	< 1	1	1	< 1	1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1
Acidity	(mg CaCO3/L)	1	< 1	2	4	4	2	2	2	2	1	1	1	1	1	1	< 1	2	< 1	< 1	< 1	< 1	< 1	1	1	1
Alkalinity	(mg CaCO3/L)	15	12	12	10	13	8	10	11	11	11	12	12	13	9	9	10	10	7	5	12	7	12	8	10	7

Weeks	#	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
Date		########	########	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	########	########	########	5-Sep-06	########	########	########	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		475	420	500	475	445	475	480	380	485	460	480	485	480	475	475	495	500	450	445	490	490	490	455	445	470
pH	Effluent (units)	7.64	7.56	7.54	7.55	7.58	7.52	7.58	7.31	7.68	7.70	7.65	7.60	7.61	7.54	7.33	7.33	7.48	7.49	7.48	7.43	7.46	7.15	7.45	7.51	7.63
Cond.	(umhos/cm)	20	13	26	22	16	18	15	9	18	15	19	19	18	17	18	15	17	14	11	17	15	17	15	14	15
ORP	mV	115	120	110	150	120	130	150	170	180	145	140	165	145	140	150	185	175	150	120	150	150	120	115	120	120
Sulphate	(mg/L)	< 1	< 1	< 1	< 1	1	3	< 1	1	1	1	< 1	< 1	1	< 1	1	< 1	< 1	< 1	1	1	1	1	1	1	< 1
Acidity	(mg CaCO3/L)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	1	1
Alkalinity	(mg CaCO3/L)	10	7	11	8	11	11	12	10	11	11	12	11	11	11	11	10	11	8	7	11	10	10	8	8	9

Weeks	#	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Fluoride	mg/L																				
Chloride	mg/L																				
TDS	mg/L																				
Al	mg/L	0.056	0.1	0.085	0.066	0.066	0.063	0.066	0.08	0.075	0.077	0.076	0.069	0.11	0.094	0.10	0.12	0.079	0.093	0.094	0.097
Sb	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
As	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ba	mg/L	0.005	0.003	0.0022	0.005	0.003	0.002	0.002	0.002	0.004	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.004	0.002	0.004	0.003
Be	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bi	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
B	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cd	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0009	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Ca	mg/L	4.07	3.45	2.38	4.79	3.48	2.89	3.04	2.68	4.95	2.95	2.95	3.8	4.47	3.96	4.61	5.00	3.57	3.12	5.34	3.97
Cr	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Co	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cu	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Fe	mg/L	< 0.05	0.08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pb	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Li	mg/L	0.002	0.003	0.0006	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Mg	mg/L	0.38	0.47	0.19	0.38	0.27	0.17	0.17	0.14	0.26	0.15	0.15	0.17	0.21	0.18	0.22	0.2	0.13	0.11	0.18	0.13
Mn	mg/L	0.004	0.021	0.0086	0.021	0.01	0.006	0.006	0.004	0.008	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.002	0.001	0.002	0.001
Hg	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Mo	mg/L	0.0019	0.0017	0.0003	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ni	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
P	mg/L	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
K	mg/L	2.5	2.1	0.59	0.8	0.6	0.4	0.6	0.4	0.8	0.3	0.3	0.4	0.4	0.5	0.5	0.4	0.3	0.3	0.3	0.4
Se	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Si	mg/L	1.5	0.9	0.89	1.4	0.7	0.8	0.8	0.9	1.2	1	1.1	0.9	1.2	1.4	1.5	1.6	0.8	0.7	0.9	0.9
Ag	mg/L	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Na	mg/L	2.14	< 0.05	0.22	0.38	0.26	0.14	0.73	0.12	< 0.05	0.12	0.12	0.12	0.14	0.11	0.14	0.08	0.08	0.06	< 0.05	0.06
Sr	mg/L	0.034	0.033	0.016	0.033	0.024	0.016	0.016	0.014	0.024	0.015	0.014	0.017	0.019	0.016	0.018	0.018	0.013	0.011	0.017	0.012
Te	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tl	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Sn	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ti	mg/L	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
U	mg/L	< 0.0005	0.0006	0.0005	0.0011	0.0013	0.0005	0.0009	0.0007	0.0012	0.0006	0.0006	0.0006	0.0008	0.0007	0.0006	0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0005
V	mg/L	0.001	0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Zn	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zr	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Weeks	#	42	46	50	54	58	62	66	70	74	78	82	86	90	94	98
Fluoride	mg/L	0.41	0.39	0.38	0.30	0.30	0.30	0.22	0.20	0.23	0.18	0.14	0.21	0.20	0.18	0.16
Chloride	mg/L	0.43	0.41	< 0.2	< 0.2	< 0.2	0.3	0.3	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.44	0.36
TDS	mg/L	49	38	31	16	23	23	31	< 1	18	44	16	18	2	35	37
Al	mg/L	0.086	0.097	0.071	0.053	0.055	0.053	0.089	0.046	0.067	0.052	0.089	0.054	0.049	0.042	0.039
Sb	mg/L	< 0.001	< 0.001	0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
As	mg/L	< 0.001	< 0.001	0.0004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
Ba	mg/L	0.003	0.004	0.0034	0.004	0.003	0.004	0.003	0.002	0.002	0.002	0.001	0.003	0.003	0.003	0.002
Be	mg/L	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
Bi	mg/L	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
B	mg/L	< 0.05	< 0.05	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05
Cd	mg/L	< 0.0002	< 0.0002	< 0.00004	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	<0.0002	< 0.0002	<0.0002	<0.0002	< 0.0002	< 0.0002	<0.0002
Ca	mg/L	4.88	5.09	4.83	4.65	3.80	4.38	3.83	2.40	2.63	3.18	1.79	3.52	3	3.23	2.78
Cr	mg/L	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
Co	mg/L	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
Cu	mg/L	< 0.001	< 0.001	0.0006	0.001	0.002	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
Fe	mg/L	< 0.05	< 0.05	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05
Pb	mg/L	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
Li	mg/L	< 0.001	< 0.001	0.0004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
Mg	mg/L	0.17	0.18	0.18	0.20	0.15	0.17	0.18	0.11	0.14	0.15	0.1	0.16	0.18	0.17	0.16
Mn	mg/L	0.001	< 0.001	0.0011	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
Hg	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02
Mo	mg/L	< 0.0005	< 0.0005	< 0.0001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	<0.0005	< 0.0005	<0.0005	<0.0005	< 0.0005	< 0.0005	<0.0005
Ni	mg/L	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
P	mg/L	< 0.15	< 0.15	< 0.03	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	<0.15	< 0.15	<0.15	<0.15	< 0.15	< 0.15	<0.15
K	mg/L	0.3	0.40	0.34	0.40	0.30	0.50	0.3	0.2	0.3	0.3	0.3	0.3	0.1	< 0.1	0.2
Se	mg/L	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
Si	mg/L	0.9	0.5	0.4	1.1	0.4	0.5	0.4	< 0.25	0.4	0.4	<0.25	0.4	0.4	< 0.25	0.3
Ag	mg/L	< 0.00025	< 0.00025	< 0.00005	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	<0.00025	< 0.00025	<0.00025	<0.00025	< 0.00025	< 0.00025	<0.00025
Na	mg/L	< 0.05	0.06	0.21	< 0.05	0.12	0.24	0.1	< 0.05	<0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05
Sr	mg/L	0.014	0.013	0.011	0.010	0.008	0.010	0.008	0.005	0.005	0.006	0.005	0.007	0.006	0.006	0.006
Te	mg/L	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
Tl	mg/L	< 0.0001	< 0.0001	< 0.00002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	< 0.0001	< 0.0001	<0.0001
Th	mg/L	< 0.0005	< 0.0005	< 0.0001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	<0.0005	< 0.0005	<0.0005	<0.0005	< 0.0005	< 0.0005	<0.0005
Sn	mg/L	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
Ti	mg/L	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
U	mg/L	< 0.0005	< 0.0005	0.0002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	<0.0005	< 0.0005	<0.0005	<0.0005	< 0.0005	< 0.0005	<0.0005
V	mg/L	< 0.001	< 0.001	0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001
Zn	mg/L	< 0.005	< 0.005	0.002	< 0.005	< 0.005	< 0.005	0.012	< 0.005	<0.005	< 0.005	<0.005	<0.005	< 0.005	< 0.005	<0.005
Zr	mg/L	< 0.01	< 0.01	< 0.002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01	<0.01	< 0.01	< 0.01	<0.01

Humidity Cell Sample Data

HC 8 - Granite
04-ARD-142-010
04-ARD-142-011
04-ARD-142-012

Weeks	#	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133
Date		14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	########	########	########	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	########	########	########	6-Mar-07	########	########	########	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		470	455	485	470	460	470	490	490	410	400	475	475	445	490	430	435	490	500	465	460	495	500	460	470	470	460	430	475	425	495	465	480	465	495
pH	Effluent (units)	7.38	7.31	7.36	7.32	7.74	7.45	7.33	7.46	7.31	7.48	7.37	7.47	7.45	7.45	7.39	7.37	7.49	7.47	7.43	7.23	7.28	7.36	7.25	7.26	7.21	7.27	7.24	7.31	7.28	7.34	7.46	7.30	7.31	7.31
Cond.	(umhos/cm)	16	16	15	15	14	14	11	13	10	10	14	12	12	14	11	13	13	14	12	12	13	12	10	12	12	10	9	10	8	12	13	11	11	12
ORP	mV	120	120	130	115	110	105	120	125	110	105	110	105	105	110	100	110	110	105	110	115	110	95	100	105	100	105	100	105	105	105	100	110	105	110
Sulphate	(mg/L)	1	< 1	< 1	1	1	< 1	< 1	< 1	< 1	1	2	1	1	1	1	2	1	1	2	1	1	1	1	1	3	1	2	1	2	< 1	1	< 1	1	< 1
Acidity	(mg CaCO3/L)	1	1	1	1	1	1	1	1	1	1	1	1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	1	1	1	< 1	1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	10	9	10	9	8	9	8	9	7	7	10	8	8	9	8	7	7	9	7	7	8	8	7	8	10	7	7	8	6	8	8	8	7	7
Total P	mg/L																																		
TDP	mgP/L																																		
Fluoride	mg/L			0.14				0.16				0.11				0.09				0.09				0.11				0.07				0.11			
Chloride	mg/L			0.35				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2			
TDS	mg/L			4				10				< 10				10				10				< 10				< 10				10			
Al	mg/L			0.033				0.029				0.038				0.034				0.038				0.027				0.028				0.029			
Sb	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
As	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Ba	mg/L			0.002				0.002				0.003				0.002				0.002				0.002				0.0014				0.0018			
Be	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Bi	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
B	mg/L			< 0.05				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.01				< 0.01			
Cd	mg/L			< 0.0002				< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.00004				< 0.00004			
Ca	mg/L			2.89				2.34				2.81				1.92				2				1.96				1.61				2.01			
Cr	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Co	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Cu	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				0.0048				0.0003			
Fe	mg/L			< 0.05				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.01				< 0.01			
Pb	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Li	mg/L			< 0.001				0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Mg	mg/L			0.16				0.12				0.16				0.1				0.12				0.19				0.09				0.11			
Mn	mg/L			< 0.001				0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				0.0002			
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L			< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0001			
Ni	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
P	mg/L			< 0.15				< 0.03				< 0.15				< 0.15				< 0.15				< 0.15				< 0.03				< 0.03			
K	mg/L			0.3				0.19				0.2				0.2				0.2				0.2				0.16				0.17			
Se	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Si	mg/L			0.3				0.22				0.3				< 0.25				< 0.25				< 0.25				0.19				0.2			
Ag	mg/L			< 0.00025				< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00005				< 0.00005			
Na	mg/L			0.07				0.03				< 0.05				< 0.05				0.05				0.09				0.03				0.03			
Sr	mg/L			0.006				0.0061				0.005				0.003				0.003				0.004				0.0031				0.0032			
Te	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Tl	mg/L			< 0.0001				< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.00002				< 0.00002			
Th	mg/L			< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0001			
Sn	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Ti	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
U	mg/L			< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0001			
V	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Zn	mg/L			< 0.005				< 0.001				< 0.005				< 0.005				< 0.005				< 0.005				0.002				< 0.001			
Zr	mg/L			< 0.01				< 0.002				< 0.01				< 0.01				< 0.01				< 0.01				< 0.002				< 0.002			

Weeks	#	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169
Date		10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	########	########	########	4-Sep-07	########	########	########	2-Oct-07	9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	########	########	########	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	########	########	########	4-Mar-08	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		455	485	485	500	505	445	480	450	485	450	460	460	460	455	455	470	485	505	480	475	495	460	490	495	495	490	490	495	480	500	470	480	500	495	500	500
pH	Effluent (units)	7.33	7.34	7.32	7.35	7.27	7.22	7.29	7.26	7.27	7.28	7.34	7.23	7.35	7.22	7.18	7.31	7.22	7.15	7.14	7.19	7.09	7.04	7.12	7.18	7.08	7.15	7.14	7.10	7.07	7.12	7.10	7.13	7.10	7.04	7.08	7.09
Cond.	(umhos/cm)	12	13	12	10	11	10	11	9	10	9	9	9	10	9	8	9	10	10	9	9	9	8	10	9	8	9	9	9	9	9	8	9	9	9	9	9
ORP	mV	105	110	120	165	155	155	150	145	150	150	140	140	145	150	130	130	110	120	125	130	120	115	120	110	110	110	120	105	100	115	115	115	115	110	115	120
Sulphate	(mg/L)	< 1	< 1	1	2	< 1	1	< 1	< 1	1	1	1	< 1	1	< 1	< 1	1	1	< 1	< 1	1	1	2	< 1	1	2	< 1	2	1	1	< 1	< 1	1	< 1	1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	7	8	7	6	7	6	8	6	7	6	6	6	6	6	6	7	6	7	6	7	5	6	6	6	6	6	6	6	6	6	6	5	6	6	6	6
Total P	mg/L																																				
TDP	mgP/L																																				
Fluoride	mg/L	0.12				0.09				0.12				0.12				0.09				0.08				0.09				0.11				0.11			
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2			
TDS	mg/L	< 10				< 10				< 10				< 10				< 10				28				< 10				11				22			
Al	mg/L	0.028				0.029				0.027				0.05				< 0.005				0.28				0.036				0.037				0.017			
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				0.004				< 0.001				< 0.001				< 0.001				< 0.001			
Ba	mg/L	0.002				0.002				0.001				0.001				< 0.001				0.006				0.002				0.002				0.002			
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				0.0002				< 0.0002			
Ca	mg/L	1.76				1.8				1.68				1.77				< 0.05				2.11				1.49				1.73				1.62			
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.003			
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Cu	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.002				< 0.001				< 0.001				< 0.001			
Fe	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				0.34				< 0.05				< 0.05				< 0.05			
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L	< 0.005				< 0.005				< 0.001				< 0.001				0.003				< 0.001				< 0.001				0.003				< 0.001			
Mg	mg/L	0.1				0.1				0.09				0.1				< 0.05				0.23				0.09				0.12				0.11			
Mn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.009				< 0.001				< 0.001				< 0.001			
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Ni	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L	0.2				0.2				0.2				0.2				< 0.1				0.5				0.1				0.1				0.2			
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				0.003				< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L	< 0.25				< 0.25				< 0.25				< 0.25				< 0.25				0.6				< 0.25				0.3				2.8			
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				0.11				< 0.05				< 0.05				< 0.05			
Sr	mg/L	0.005				0.003				0.003				0.005				< 0.001				0.004				0.003				0.003				0.003			
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				0.0005				< 0.0001			
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.035				< 0.001				< 0.001				< 0.001			
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				0.003				< 0.001				< 0.001				< 0.001				0.007			
Zn	mg/L	< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005			
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Date		########	########	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	########	########	########	2-Sep-08	9-Sep-08	########	########	########	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		500	490	495	500	490	500	475	490	510	500	510	480	490	500	490	500	490	490	490	490	465	470	490	495	500	490	495	435	500	480	500	475	500	500	500	505	490	490
pH	Effluent (units)	7.11	7.02	7.07	7.15	7.09	7.12	6.98	7.08	6.97	7.06	7.02	7.06	7.06	7.08	7.00	7.01	7.05	7.07	7.01	6.98	7.08	7.04	7.06	7.10	6.92	7.04	6.90	6.99	6.87	6.96	7.01	6.95	6.83	6.87	6.83	6.84	6.99	6.86
Cond.	(umhos/cm)	8	8	8	7	8	8	7	7	7	6	8	7	8	7	8	8	8	9	8	8	8	8	8	8	8	6	8	8	7	6	7	7	7	7	8	8	8	9
ORP	mV	130	160	145	140	140	155	130	120	130	155	140	160	145	130	130	120	125	120	110	110	105	160	130	125	130	135	135	120	120	125	130	135	125	130	150	110	105	150
Sulphate	(mg/L)	1	1	1	1	< 1	< 1	1	< 1	< 1	< 1	2	1	1	1	< 1	1	1	1	< 1	< 1	1	< 1	1	1	< 1	1	1	3	1	< 1	1	< 1	1	2	< 1	1	1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	1	1	1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	1	1
Alkalinity	(mg CaCO3/L)	6	6	6	6	5	5	6	5	5	5	5	5	5	5	5	5	6	6	5	5	6	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	5	4
Total P	mg/L	< 0.02				< 0.02				0.03				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02	0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
TDP	mgP/L	-				-				< 0.02				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Fluoride	mg/L	0.08				0.08				0.10				0.07				0.06	0.06	0.06	< 0.05	0.05				< 0.05				0.07				0.06				0.09	0.08
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2	< 0.2	< 0.2	< 0.2	< 0.2				0.61				< 0.2				< 0.2				< 0.2	0.29
TDS	mg/L	12				< 10				12	CCME DL			< 10				< 10	< 10	< 10	< 10	< 10				18				< 10				< 10				< 10	29
Al	mg/L	0.016	0.018			0.023	0.018			0.021	0.015			0.028	0.019			0.016	0.015	0.01	0.014	0.016				0.012				0.012				0.008				0.01	0.008
Sb	mg/L	< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
As	mg/L	< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ba	mg/L	0.001	0.0016			0.001	0.0012			0.002	0.0016			0.001	0.0019			0.0015	0.0016	0.0015	0.0014	0.0017				0.0015				0.0021				0.0015				0.0015	0.0026
Be	mg/L	< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Bi	mg/L	< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
B	mg/L	< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Cd	mg/L	< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004	< 0.00004
Ca	mg/L	1.41	1.46			1.49	1.43			1.37	1.37			1.33	1.35			1.4	1.36	1.21	1.3	1.33				1.29				1.39				1.28				1.26	1.39
Cr	mg/L	< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Co	mg/L	< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Cu	mg/L	< 0.001	0.0011			< 0.001	0.0017			< 0.001	0.0005			< 0.001	0.0005			0.0007	0.0002	0.0007	0.0003	0.0014				0.0007				0.0007				0.0014				0.006	0.0024
Fe	mg/L	< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Pb	mg/L	< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Li	mg/L	< 0.001	0.0003			0.002	0.0004			< 0.001	0.0003			< 0.001	< 0.0002			0.0004	0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	0.0003
Mg	mg/L	0.09	0.11			0.09	0.1			0.16	0.1			0.09	0.09			0.1	0.08	0.07	0.09	0.08				0.07				0.07				0.08				0.07	0.12
Mn	mg/L	< 0.001	< 0.0002			< 0.001	0.0002			< 0.001	< 0.0002			< 0.001	0.0004			0.0003	0.0003	0.0003	0.0003	0.0003				0.0002				0.0007				0.0006				0.0011	0.0015
Hg	ug/L	< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L	< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Ni	mg/L	< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				0.0005				< 0.0002				< 0.0002	< 0.0002
P	mg/L	< 0.15	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03				< 0.03				< 0.03				< 0.03				< 0.03	< 0.03
K	mg/L	0.2	0.16			0.1	0.17			0.2	0.15			0.1	0.17			0.14	0.15	0.14	0.16	0.16				0.13				0.12				0.11				0.14	0.15
Se	mg/L	< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Si	mg/L	< 0.25	0.19			< 0.25	0.19			< 0.25	0.19			< 0.25	0.18			0.18	0.15	0.15	0.19	0.18				0.16				0.14				0.15				0.14	0.17
Ag	mg/L	< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005	< 0.00005
Na	mg/L	< 0.05	0.03			< 0.05	0.04			0.82	0.03			< 0.05	0.04			0.03	0.02	0.05	0.03	0.03				0.02				0.02				0.02				0.03	0.06
Sr	mg/L	0.002	0.0025			0.003	0.0026			0.003	0.0024			0.003	0.0023			0.0024	0.0023	0.0021	0.0021	0.0022				0.0021				0.0025				0.0022				0.0019	0.0027
Te	mg/L	< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Tl	mg/L	< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002	0.00003
Th	mg/L	< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Sn	mg/L	< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				0.0008				< 0.0002				< 0.0002	< 0.0002
Ti	mg/L	< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
U	mg/L	< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
V	mg/L	< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Zn	mg/L	< 0.005	0.001			< 0.005	0.002			< 0.005	0.001			< 0.005	0.003			0.002	< 0.001	0.002	< 0.001	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.001
Zr	mg/L	< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002	< 0.002

Humidity Cell Sample Data

HC 9 - Granite
04-ARD-121-046
04-ARD-121-047
04-ARD-121-048

S-Total:	0.07	%
S^{2-}:	0.07	%
NP:	5.73	t $CaCO_3$/1000 t
CaNP:	1.29	t $CaCO_3$/1000 t
AP:	2.29	t $CaCO_3$/1000 t

Weeks	#	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		560	470	410	470	485	480	440	480	370	415	480	370	415	405	425	400	450	480	480	475	475	490	485	490	480
pH	Effluent (units)	7.42	7.82	7.57	7.71	8.12	7.62	7.82	7.91	7.60	7.71	7.92	7.86	8.05	8.09	8.04	7.95	7.95	7.94	8.09	7.89	7.93	7.71	7.94	7.60	7.90
Cond.	(umhos/cm)	124	140	84	70	66	50	53	50	37	44	57	37	51	42	43	37	42	46	43	37	43	40	38	42	36
ORP	mV	210	150	115	105	100	130	115	125	95	95	120	110	110	95	130	130	130	130	130	150	110	110	105	150	130
Sulphate	(mg/L)	37	40	21	12	8	7	7	6	5	6	7	5	9	5	5	5	5	5	5	4	2	4	4	3	4
Acidity	(mg CaCO3/L)	2	2	< 1	2	1	2	1	1	< 1	< 1	1	< 1	< 1	< 1	1	1	1	1	1	1	1	1	1	1	< 1
Alkalinity	(mg CaCO3/L)	13	15	13	17	17	15	14	16	4	11	14	9	10	10	12	10	14	15	15	15	14	14	13	14	13
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L																									
Chloride	mg/L																									
TDS	mg/L																									
Al	mg/L	0.059		0.14		0.1		0.1		0.1		0.09		0.07		0.14		0.081		0.089		0.081		0.08		0.098
Sb	mg/L	0.004		0.003		0.004		0.003		0.001		0.002		0.001		0.001		0.002		0.002		0.002		0.002		0.001
As	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.003		< 0.001		< 0.001		0.001
Ba	mg/L	0.007		0.004		0.0048		0.004		0.002		0.005		0.004		0.003		0.003		0.003		0.003		0.004		0.004
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	12.6		8.26		7.94		6.8		4.05		7.63		6.03		6.6		6.96		6.94		6.50		6.96		16.3
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.003		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.004		0.006		0.0025		0.002		< 0.001		0.001		0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		0.001
Mg	mg/L	2.21		1.41		0.94		0.67		0.37		0.57		0.44		0.42		0.4		0.38		0.32		0.32		0.36
Mn	mg/L	0.02		0.072		0.05		0.033		0.01		0.025		0.013		0.013		0.016		0.016		0.015		0.014		0.017
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.0015		0.002		0.0012		0.0008		< 0.0005		0.0006		0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	mg/L	3.6		2.1		0.95		0.6		0.4		0.6		0.7		0.5		0.7		0.4		0.3		0.5		0.8
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Si	mg/L	1.7		1.5		2.15		1.7		0.8		1.7		1.2		1.3		1.2		1.8		1.6		1.4		1.5
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	6.2		< 0.05		0.73		0.43		0.24		0.33		0.26		0.21		< 0.05		0.21		0.17		0.17		0.33
Sr	mg/L	0.14		0.1		0.077		0.06		0.034		0.056		0.045		0.042		0.043		0.041		0.036		0.036		0.19
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	0.003		0.0038		0.0046		0.0046		0.0028		0.0062		0.0042		0.0052		0.0059		0.0051		0.0042		0.0035		0.0034
V	mg/L	0.001		0.003		0.0022		0.002		0.001		0.002		0.001		0.002		0.001		0.001		< 0.001		0.001		0.001
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01

Weeks	#	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Date		7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05	30-Aug-05	6-Sep-05	13-Sep-05	20-Sep-05	27-Sep-05	4-Oct-05	11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		470	450	450	470	475	475	465	495	460	480	480	475	470	490	480	450	490	435	455	486	480	490	485	495	485
pH	Effluent (units)	7.58	7.57	7.29	7.63	7.69	7.45	7.67	7.22	7.39	7.38	7.41	7.08	7.09	7.72	7.53	7.66	7.83	7.58	7.81	7.60	7.72	7.55	7.69	7.38	7.57
Cond.	(umhos/cm)	41	37	40	41	41	42	43	39	39	42	40	39	44	35	39	38	39	34	35	36	35	32	36	36	36
ORP	mV	175	200	145	145	165	170	130	190	145	135	145	145	150	200	170	120	155	140	190	145	160	150	160	150	145
Sulphate	(mg/L)	2	3	4	4	4	4	3	1	5	3	4	3	4	3	3	4	4	3	4	4	1	1	1	3	4
Acidity	(mg CaCO3/L)	1	1	1	1	2	2	1	3	1	3	2	3	4	1	1	< 1	< 1	1	< 1	1	1	1	1	1	2
Alkalinity	(mg CaCO3/L)	14	13	12	15	13	14	13	13	14	13	14	13	14	13	14	14	14	11	12	14	13	13	13	12	11
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L																		0.35				0.39			
Chloride	mg/L																		0.40				0.41			
TDS	mg/L																		54				48			
Al	mg/L		0.11		0.11		0.12		0.085		0.088		0.083		0.093				0.079				0.093			
Sb	mg/L		0.001		0.001		0.001		0.001		0.001		0.001		0.001				< 0.001				< 0.001			
As	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Ba	mg/L		0.003		0.003		0.003		0.003		0.003		0.003		0.003				0.002				0.003			
Be	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Bi	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
B	mg/L		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05			
Cd	mg/L		< 0.0002		0.0009		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L		5.98		6.59		6.63		6.12		5.88		6.03		5.96				4.73				5.82			
Cr	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Co	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Cu	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.003				< 0.001				< 0.001			
Fe	mg/L		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.12				< 0.05				< 0.05			
Pb	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Li	mg/L		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Mg	mg/L		0.27		0.32		0.28		0.21		0.21		0.2		0.19				0.17				0.19			
Mn	mg/L		0.01		0.008		0.008		0.005		0.003		0.002		0.002				0.001				0.001			
Hg	ug/L		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02				< 0.02				< 0.02			
Mo	mg/L		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		0.0006		0.0009				0.0008				0.0009			
Ni	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002				< 0.001				< 0.001			
P	mg/L		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15				< 0.15				< 0.15			
K	mg/L		0.6		0.7		0.6		0.5		0.5		0.4		0.5				0.4				0.5			
Se	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Si	mg/L		1.7		1.9		1.9		1.2		1.2		0.9		1.2				0.8				0.6			
Ag	mg/L		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025				< 0.00025			
Na	mg/L		0.14		0.18		0.12		0.11		0.11		< 0.05		0.07				< 0.05				0.08			
Sr	mg/L		0.029		0.029		0.028		0.024		0.023		0.022		0.02				0.016				0.017			
Te	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Tl	mg/L		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001				< 0.0001			
Th	mg/L		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Ti	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
U	mg/L		0.0035		0.0035		0.0038		0.0024		0.0023		0.0026		0.0022				0.0018				0.0016			
V	mg/L		0.001		0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Zn	mg/L		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005				< 0.005				< 0.005			
Zr	mg/L		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01				< 0.01			

Weeks	#	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
Date		29-Nov-05	6-Dec-05	########	########	########	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	########	########	########	7-Mar-06	########	########	########	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		430	440	435	485	415	485	465	490	485	475	485	495	495	480	485	475	485	490	440	425	465	480	460	480	480
pH	Effluent (units)	7.50	7.57	7.39	7.27	7.23	7.74	6.91	7.61	7.91	7.56	7.43	7.52	7.25	7.72	7.61	7.36	7.18	7.48	7.58	7.01	7.44	7.72	7.20	7.35	7.50
Cond.	(umhos/cm)	32	33	36	33	30	33	34	33	34	43	31	37	36	32	32	34	27	31	27	17	31	29	25	28	25
ORP	mV	155	135	195	180	185	165	170	170	175	180	200	210	160	200	160	170	180	120	115	130	160	140	100	110	160
Sulphate	(mg/L)	3	4	4	2	3	3	3	4	3	3	2	3	< 1	3	3	2	3	3	3	3	5	3	3	3	3
Acidity	(mg CaCO3/L)	1	< 1	2	3	5	3	4	1	2	1	3	1	1	1	1	1	3	1	< 1	2	1	< 1	1	1	1
Alkalinity	(mg CaCO3/L)	9	10	11	13	10	12	12	11	12	13	13	12	12	11	10	11	10	11	9	6	11	11	10	10	10
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L	0.35				0.40				0.30				0.32				0.26				0.30				0.33
Chloride	mg/L	<0.2				<0.2				<0.2				0.3				<0.2				0.3				<0.2
TDS	mg/L	44				27				22				<5				23				<1				18
Al	mg/L	0.085				0.070				0.058				0.053				0.072				0.048				0.071
Sb	mg/L	0.0007				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
As	mg/L	0.0003				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Ba	mg/L	0.002				0.002				0.002				0.003				0.003				0.002				0.002
Be	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Bi	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
B	mg/L	< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				<0.05
Cd	mg/L	< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				<0.0002
Ca	mg/L	4.80				4.86				5.09				5.00				5.01				4.84				4.63
Cr	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Co	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Cu	mg/L	0.0003				0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Fe	mg/L	< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				<0.05
Pb	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Li	mg/L	0.0004				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Mg	mg/L	0.16				0.20				0.18				0.19				0.21				0.19				0.22
Mn	mg/L	0.0007				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				<0.02
Mo	mg/L	0.0008				0.0009				0.0009				0.0009				0.001				< 0.0005				0.0007
Ni	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
P	mg/L	< 0.03				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				<0.15
K	mg/L	0.4				0.4				0.4				0.5				0.4				0.4				0.5
Se	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Si	mg/L	0.4				1.1				0.5				0.5				0.4				0.3				0.6
Ag	mg/L	< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				<0.00025
Na	mg/L	0.20				< 0.05				0.12				0.25				0.11				0.07				<0.05
Sr	mg/L	0.012				0.012				0.012				0.012				0.011				0.01				0.009
Te	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Tl	mg/L	< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				<0.0001
Th	mg/L	< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005
Sn	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Ti	mg/L	0.0003				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
U	mg/L	0.0012				0.0014				0.0014				0.0012				0.0011				0.0013				0.001
V	mg/L	0.0006				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Zn	mg/L	0.003				< 0.005				< 0.005				< 0.005				0.007				< 0.005				<0.005
Zr	mg/L	< 0.002				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				<0.01

Weeks	#	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
Date		########	########	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	########	########	########	5-Sep-06	########	########	########	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		485	495	495	435	420	495	490	380	490	460	480	475	465	480	460	445	505	405	465	475	455	475	460	465	475
pH	Effluent (units)	7.51	7.64	7.52	7.62	7.48	7.67	7.54	7.76	7.57	7.38	7.68	7.57	7.58	7.21	7.42	7.50	7.49	7.88	7.61	7.48	7.61	7.42	7.57	7.68	7.57
Cond.	(umhos/cm)	26	21	31	27	19	27	19	15	29	21	25	22	23	24	23	22	25	19	20	25	24	23	21	22	21
ORP	mV	125	120	170	145	130	140	135	155	180	150	145	180	150	150	150	175	170	150	140	160	145	140	145	100	115
Sulphate	(mg/L)	3	3	3	3	2	1	2	2	6	3	2	3	3	3	3	3	3	3	2	3	3	3	3	3	1
Acidity	(mg CaCO3/L)	< 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Alkalinity	(mg CaCO3/L)	9	10	9	8	9	12	11	7	12	11	12	10	11	11	11	11	11	9	10	10	12	10	10	10	11
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L				0.25				0.24				0.25				0.26				0.259				0.24	
Chloride	mg/L				<0.2				<0.2				<0.2				<0.2				<0.2				0.35	
TDS	mg/L				56				42				22				9				31				61	
Al	mg/L				0.067				0.12				0.061				0.07				0.05				0.049	
Sb	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
As	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Ba	mg/L				0.002				0.001				0.002				0.002				0.002				0.002	
Be	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Bi	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
B	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Cd	mg/L				< 0.0002				<0.0002				<0.0002				< 0.0002				< 0.0002				<0.0002	
Ca	mg/L				3.53				2.86				4.21				3.90				4.33				4.17	
Cr	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Co	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Cu	mg/L				< 0.001				0.005				<0.001				< 0.001				< 0.001				<0.001	
Fe	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Pb	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Li	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Mg	mg/L				0.17				0.16				0.19				0.26				0.24				0.25	
Mn	mg/L				< 0.001				0.001				<0.001				< 0.001				< 0.001				<0.001	
Hg	ug/L				< 0.02				<0.02				<0.02				< 0.02				< 0.02				<0.02	
Mo	mg/L				0.0007				0.0005				0.0005				0.0006				< 0.0005				0.0006	
Ni	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
P	mg/L				< 0.15				<0.15				<0.15				< 0.15				< 0.15				<0.15	
K	mg/L				0.3				0.4				0.4				0.2				< 0.1				0.3	
Se	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Si	mg/L				0.4				<0.25				0.4				0.4				< 0.25				0.3	
Ag	mg/L				< 0.00025				<0.00025				<0.00025				< 0.00025				< 0.00025				<0.00025	
Na	mg/L				< 0.05				<0.05				0.05				< 0.05				< 0.05				<0.05	
Sr	mg/L				0.008				0.006				0.007				0.007				0.008				0.008	
Te	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Tl	mg/L				< 0.0001				<0.0001				<0.0001				< 0.0001				< 0.0001				<0.0001	
Th	mg/L				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005	
Sn	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Ti	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
U	mg/L				0.0009				0.0007				0.001				0.0009				0.0009				0.0008	
V	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Zn	mg/L				< 0.005				<0.005				<0.005				< 0.005				< 0.005				<0.005	
Zr	mg/L				< 0.01				<0.01				<0.01				< 0.01				< 0.01				<0.01	

Humidity Cell Sample Data

HC 9 - Granite
04-ARD-121-046
04-ARD-121-047
04-ARD-121-048

Weeks	#	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126
Date		14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	########	########	########	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	########	########	########	6-Mar-07	########	########	########	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		470	470	470	460	465	485	460	410	445	410	470	470	460	470	465	455	485	475	460	470	490	485	490	445	490	480	440
pH	Effluent (units)	7.46	7.57	7.40	7.42	7.45	7.48	7.46	7.49	7.47	7.67	7.46	7.68	7.44	7.45	7.42	7.54	7.57	7.55	7.61	7.44	7.40	7.46	7.55	7.30	7.35	7.32	7.33
Cond.	(umhos/cm)	23	22	21	22	21	22	16	18	20	16	21	20	20	22	18	21	20	21	20	20	20	19	20	17	21	19	19
ORP	mV	120	120	120	110	110	105	105	115	110	100	100	100	100	110	105	100	110	110	110	110	105	100	105	100	105	105	105
Sulphate	(mg/L)	2	< 1	3	2	2	3	1	3	2	1	3	3	2	2	2	3	2	2	2	2	2	2	2	2	3	3	3
Acidity	(mg CaCO3/L)	1	1	1	1	1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	1	1	< 1	< 1	1	< 1	1	< 1	1	< 1	1	< 1
Alkalinity	(mg CaCO3/L)	10	11	10	10	10	11	9	9	10	8	10	10	10	10	10	8	9	10	10	10	10	10	10	8	10	9	9
Total P	mg/L																											
TDP	mgP/L																											
Fluoride	mg/L			0.20				0.21				0.26				0.14				0.16				0.18				0.15
Chloride	mg/L			0.34				<0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2
TDS	mg/L			30				28				< 10				40				< 10				< 10				14
Al	mg/L			0.038				0.039				0.041				0.036				0.039				0.034				0.034
Sb	mg/L			< 0.001				0.0004				< 0.001				< 0.001				< 0.001				< 0.001				0.0006
As	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002
Ba	mg/L			0.002				0.001				0.002				0.002				0.001				0.002				0.0013
Be	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002
Bi	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002
B	mg/L			< 0.05				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.01
Cd	mg/L			< 0.0002				< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.00004
Ca	mg/L			3.98				3				4.09				3.42				3.41				3.41				3.37
Cr	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002
Co	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002
Cu	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				0.0036
Fe	mg/L			< 0.05				0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.01
Pb	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002
Li	mg/L			< 0.001				0.0003				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Mg	mg/L			0.25				0.18				0.25				0.21				0.22				0.28				0.22
Mn	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L			0.0005				0.0003				0.0006				0.0006				0.0005				0.0007				0.0007
Ni	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002
P	mg/L			< 0.15				< 0.03				< 0.15				< 0.15				< 0.15				< 0.15				< 0.03
K	mg/L			0.3				0.2				0.3				0.3				0.3				0.3				0.28
Se	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002
Si	mg/L			0.3				0.23				0.3				< 0.25				0.3				< 0.25				0.22
Ag	mg/L			< 0.00025				< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00005
Na	mg/L			0.07				0.04				< 0.05				< 0.05				0.06				0.09				0.04
Sr	mg/L			0.009				0.0067				0.007				0.005				0.005				0.006				0.0047
Te	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002
Tl	mg/L			< 0.0001				< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.00002
Th	mg/L			< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001
Sn	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002
Ti	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002
U	mg/L			0.0006				0.0004				0.0007				0.0006				0.0005				< 0.0005				0.0004
V	mg/L			< 0.001				0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002
Zn	mg/L			< 0.005				< 0.001				< 0.005				< 0.005				< 0.005				< 0.005				< 0.001
Zr	mg/L			< 0.01				< 0.002				< 0.01				< 0.01				< 0.01				< 0.01				< 0.002

Weeks	#	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153
Date		########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	########	########	########	4-Sep-07	########	########	########	2-Oct-07	9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	495	480	430	460	460	480	490	485	495	485	500	450	470	485	500	490	450	440	440	475	470	480	495	495	470	495
pH	Effluent (units)	7.33	7.37	7.45	7.57	7.41	7.46	7.40	7.46	7.37	7.42	7.46	7.42	7.34	7.40	7.48	7.40	7.39	7.32	7.40	7.44	7.41	7.40	7.44	7.36	7.29	7.52	7.40
Cond.	(umhos/cm)	18	20	19	19	19	18	21	22	21	21	19	20	19	20	20	20	20	18	20	19	20	18	17	17	18	21	15
ORP	mV	110	100	110	105	110	110	110	110	110	110	145	140	165	145	140	145	150	135	125	135	120	130	110	105	115	110	120
Sulphate	(mg/L)	2	3	3	2	2	3	2	2	1	3	1	2	2	2	3	3	2	2	2	3	< 1	2	2	2	1	1	2
Acidity	(mg CaCO3/L)	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	9	10	10	8	9	8	9	9	8	8	8	9	8	9	8	8	9	8	9	8	9	8	9	9	9	11	8
Total P	mg/L																											
TDP	mgP/L																											
Fluoride	mg/L				0.15				0.21				0.13				0.17				0.14				0.12			
Chloride	mg/L				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2			
TDS	mg/L				26				< 10				11				< 10				< 10				24			
Al	mg/L				0.042				0.035				0.046				0.031				0.063				0.026			
Sb	mg/L				0.0005				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				0.003			
Ba	mg/L				0.0011				0.001				0.002				0.001				0.001				0.003			
Be	mg/L				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Cd	mg/L				< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L				2.83				2.82				3.2				2.9				2.97				2.56			
Cr	mg/L				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Cu	mg/L				0.0004				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Fe	mg/L				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Pb	mg/L				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L				< 0.001				< 0.005				< 0.005				< 0.001				< 0.001				0.003			
Mg	mg/L				0.18				0.19				0.22				0.2				0.22				0.15			
Mn	mg/L				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Hg	ug/L				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L				0.0006				0.0006				0.0007				0.0006				< 0.0005				< 0.0005			
Ni	mg/L				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
P	mg/L				< 0.03				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L				0.23				0.3				0.3				0.3				0.3				0.2			
Se	mg/L				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				0.003			
Si	mg/L				0.18				< 0.25				0.3				< 0.25				< 0.25				< 0.25			
Ag	mg/L				< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L				0.04				< 0.05				< 0.05				< 0.05				0.05				< 0.05			
Sr	mg/L				0.0042				0.005				0.005				0.004				0.008				0.005			
Te	mg/L				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L				< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L				0.0004				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				0.004			
Zn	mg/L				< 0.001				< 0.005				< 0.005				0.02				< 0.005				< 0.005			
Zr	mg/L				< 0.002				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
Date		27-Nov-07	4-Dec-07	########	########	########	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	########	########	########	4-Mar-08	########	########	########	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		475	505	490	480	480	480	480	490	490	480	485	480	495	485	465	485	470	480	475	500	495	480	490	480	500	495	495
pH	Effluent (units)	7.15	7.18	7.32	7.26	7.33	7.50	7.34	7.22	7.23	7.29	7.26	7.28	7.29	7.28	7.30	7.26	7.24	7.27	7.27	7.39	7.26	7.36	7.22	7.24	7.25	7.29	7.25
Cond.	(umhos/cm)	14	15	18	16	16	18	17	17	17	17	15	17	17	16	17	16	15	15	15	15	15	16	15	14	14	16	16
ORP	mV	120	105	110	115	110	115	120	110	110	130	110	115	110	105	115	120	120	150	170	170	160	155	160	130	150	150	165
Sulphate	(mg/L)	2	3	2	2	2	1	2	2	2	1	2	2	2	2	1	1	1	1	1	2	< 1	< 1	2	1	3	< 1	2
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	6	8	9	8	8	9	9	8	8	8	8	8	8	8	8	8	7	7	7	8	7	8	8	8	7	7	7
Total P	mg/L																	< 0.02				< 0.02				0.13		
TDP	mgP/L																	-				-				< 0.02		
Fluoride	mg/L	0.08				0.14				0.10				0.12				0.12				0.1				0.14		
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2		
TDS	mg/L	14				36				23				28				16	CCME DL			40	CCME DL			11	CCME DL	
Al	mg/L	0.029				0.035				0.028				0.02				0.023	0.021			0.028	0.023			0.03	0.024	
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0005			< 0.001	0.0005			< 0.001	0.0006	
As	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Ba	mg/L	0.002				0.001				0.001				0.001				0.002	0.0013			0.001	0.0015			0.001	0.0013	
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
B	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01	
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004	
Ca	mg/L	2.69				2.6				2.86				2.71				2.52	2.61			2.59	2.62			2.55	2.64	
Cr	mg/L	< 0.001				< 0.001				< 0.001				0.002				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Cu	mg/L	0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0004			< 0.001	0.0005			< 0.001	0.0002	
Fe	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01	
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Li	mg/L	< 0.001				< 0.001				0.003				< 0.001				< 0.001	0.0005			0.001	0.0006			< 0.001	0.0003	
Mg	mg/L	0.17				0.21				0.25				0.23				0.21	0.25			0.22	0.23			0.27	0.26	
Mn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02	
Mo	mg/L	0.0005				0.0005				0.0007				0.0006				0.0007	0.0007			0.0008	0.0007			0.0007	0.0007	
Ni	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03	
K	mg/L	0.3				0.2				0.2				0.2				0.2	0.21			0.2	0.21			0.3	0.22	
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Si	mg/L	< 0.25				< 0.25				< 0.25				3				< 0.25	0.19			< 0.25	0.21			0.3	0.23	
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005	
Na	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	0.04			< 0.05	0.04			0.28	0.04	
Sr	mg/L	0.004				0.004				0.004				0.004				0.003	0.0037			0.004	0.0036			0.003	0.0035	
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.0001	< 0.00002	
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001	
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	0.0002			< 0.0005	0.0002			< 0.0005	0.0002	
V	mg/L	< 0.001				< 0.001				< 0.001				0.008				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Zn	mg/L	< 0.005				< 0.005				< 0.005				< 0.005				< 0.005	0.001			< 0.005	0.002			< 0.005	< 0.001	
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002	

Weeks	#	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Date		3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	########	########	########	2-Sep-08	9-Sep-08	########	########	########	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		495	490	490	490	470	505	485	500	490	465	455	455	460	460	450	435	445	465	450	430	425	485	465	490	505	465	465
pH	Effluent (units)	7.25	7.15	7.24	7.22	7.44	7.22	7.19	7.20	7.26	7.19	7.19	7.25	7.30	7.02	7.19	7.08	7.19	7.07	7.06	6.97	6.95	7.07	7.10	7.00	7.12	6.94	7.00
Cond.	(umhos/cm)	14	13	17	16	21	15	16	15	16	16	14	16	16	17	12	17	17	15	17	19	25	16	14	16	18	19	20
ORP	mV	155	160	180	160	155	150	155	155	155	140	155	140	140	150	145	140	140	130	145	145	140	140	140	160	120	100	105
Sulphate	(mg/L)	2	2	2	2	< 1	< 1	2	< 1	< 1	3	1	1	< 1	3	2	1	4	2	2	3	< 1	1	2	< 1	2	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	1	1
Alkalinity	(mg CaCO3/L)	7	7	7	7	9	8	7	7	7	8	6	7	7	6	6	6	6	6	6	5	5	7	6	6	6	6	5
Total P	mg/L		0.04				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
TDP	mgP/L		< 0.02				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Fluoride	mg/L		0.06				0.08	0.08	0.1	0.1	< 0.05				0.09				0.09				0.09				0.1	0.1
Chloride	mg/L		< 0.2				< 0.2	< 0.2	< 0.2	< 0.2	< 0.2				0.46				1.68				0.75				0.99	1.94
TDS	mg/L		13	CCME DL			< 10	25	< 10	< 10	13				29				< 10				< 10				< 10	33
Al	mg/L		0.035	0.018			0.026	0.019	0.016	0.023	0.022				0.02				0.013				0.016				0.017	0.009
Sb	mg/L		< 0.001	0.0004			0.0005	0.0005	0.0006	0.0005	0.0006				0.0005				0.0005				0.0005				0.0004	0.0004
As	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ba	mg/L		0.001	0.0011			0.0011	0.0012	0.0012	0.0012	0.0012				0.0014				0.002				0.0016				0.0015	0.002
Be	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Bi	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
B	mg/L		< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Cd	mg/L		< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004	< 0.00004
Ca	mg/L		1.94	1.94			2.45	2.38	2.26	2.51	2.55				2.4				2.82				2.7				2.67	3.02
Cr	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Co	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Cu	mg/L		< 0.001	0.0007			0.0009	< 0.0002	0.0004	0.0014	0.001				0.0012				0.0009				0.0011				0.011	0.0067
Fe	mg/L		< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Pb	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Li	mg/L		< 0.001	0.0002			0.0005	0.0003	< 0.0002	0.0003	0.0003				0.0003				0.0003				0.0003				< 0.0002	0.0005
Mg	mg/L		0.17	0.18			0.23	0.17	0.17	0.24	0.21				0.19				0.19				0.24				0.19	0.3
Mn	mg/L		< 0.001	< 0.0002			0.0003	< 0.0002	< 0.0002	< 0.0002	< 0.0002				0.0002				0.0007				0.0003				0.0006	0.0014
Hg	ug/L		< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L		< 0.0005	0.0005			0.0005	0.0005	0.0005	0.0006	0.0006				0.0005				0.0005				0.0004				0.0005	0.0005
Ni	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				0.0002	< 0.0002
P	mg/L		< 0.15	< 0.03			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03				< 0.03				< 0.03				< 0.03				< 0.03	< 0.03
K	mg/L		0.2	0.18			0.2	0.21	0.2	0.23	0.23				0.21				0.19				0.21				0.2	0.21
Se	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Si	mg/L		< 0.25	0.14			0.17	0.14	0.16	0.21	0.19				0.18				0.16				0.21				0.16	0.21
Ag	mg/L		< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005	< 0.00005
Na	mg/L		< 0.05	0.03			0.04	0.03	0.05	0.04	0.03				0.02				0.03				0.04				0.04	0.07
Sr	mg/L		0.003	0.0027			0.0032	0.0032	0.0029	0.0032	0.0032				0.0032				0.0038				0.0038				0.003	0.0039
Te	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Tl	mg/L		< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002	0.00003
Th	mg/L		< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Sn	mg/L		< 0.001	0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ti	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
U	mg/L		< 0.0005	0.0001			0.0001	0.0001	0.0001	0.0001	0.0001				0.0001				0.0001				0.0001				< 0.0001	< 0.0001
V	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Zn	mg/L		< 0.005	0.003			0.004	< 0.001	0.003	< 0.001	< 0.001				0.001				< 0.001				< 0.001				0.001	0.002
Zr	mg/L		< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002	< 0.002

Humidity Cell Sample Data

HC 10 - Granite
04-ARD-191-002
04-ARD-191-003
04-ARD-191-004

S-Total:	0.02	%
S^{2-}:	0.02	%
NP:	2.53	t $CaCO_3$/1000 t
CaNP:	1.364545413	t $CaCO_3$/1000 t
AP:	0.6	t $CaCO_3$/1000 t

Weeks	#	0	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
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05	7-Jun-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		560	415	500	445	445	450	430	495	490	490	480	430	430	415	435	480	490	485	445	460	490	485	485	505	505	490
pH	Effluent (units)	7.15	7.78	7.46	7.28	8.03	7.52	7.45	7.75	7.01	6.80	7.21	7.34	7.85	7.47	7.82	7.02	7.37	7.73	7.85	7.66	7.73	7.94	7.76	7.13	7.66	7.23
Cond.	(umhos/cm)	42	39	44	31	31	17	17	21	20	19	17	11	16	14	14	13	13	12	11	10	14	11	12	13	10	10
ORP	mV	200	150	120	100	100	110	110	140	105	105	135	140	120	115	150	165	140	140	110	150	105	110	105	130	110	160
Sulphate	(mg/L)	4	3	3	1	3	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	1	< 1	< 1	1	1	< 1	1	< 1	< 1	< 1	< 1
Acidity	(mg CaCO3/L)	2	2	2	2	2	2	1	2	2	2	2	< 1	1	2	1	5	2	1	2	1	1	1	2	2	< 1	1
Alkalinity	(mg CaCO3/L)	6	7	13	9	10	6	6	8	7	7	5	4	5	5	5	6	6	5	5	5	5	5	4	6	4	3
Total P	mg/L																										
TDP	mgP/L																										
Fluoride	mg/L																										
Chloride	mg/L																										
TDS	mg/L																										
Al	mg/L	0.05		0.091		0.047		0.043		0.044		0.036		0.042		0.04		0.038		0.029		0.049		0.022		0.041	
Sb	mg/L	0.004		0.006		0.005		0.003		0.003		0.002		0.002		0.001		0.002		0.001		0.001		0.001		0.001	
As	mg/L	0.002		0.002		0.0008		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.003		< 0.001		0.004		< 0.001	
Ba	mg/L	0.004		0.003		0.0031		0.002		0.002		0.002		0.001		0.001		< 0.001		< 0.001		0.002		0.001		0.001	
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05	
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002	
Ca	mg/L	3.1		3.32		2.67		1.61		1.82		1.63		1.53		1.47		1.57		1.17		1.31		1.31		1.15	
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Cu	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.004		< 0.001		< 0.001		< 0.001	
Fe	mg/L	< 0.05		0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05	
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Li	mg/L	0.002		0.004		0.0016		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Mg	mg/L	0.53		0.68		0.53		0.31		0.35		0.31		0.29		0.26		0.29		0.25		0.26		0.26		0.27	
Mn	mg/L	0.004		0.046		0.024		0.014		0.015		0.013		0.01		0.007		0.009		0.005		0.005		0.003		0.003	
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02	
Mo	mg/L	0.0029		0.0046		0.0024		0.0013		0.0009		0.0006		0.0007		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005	
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15	
K	mg/L	2.4		2.4		1.12		0.6		0.6		0.5		0.6		0.4		0.6		0.3		0.3		0.3		0.3	
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Si	mg/L	1.5		2		1.98		1.4		1.5		1.4		1.4		1.3		1.5		1.5		1.8		1.4		1.5	
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025	
Na	mg/L	2.64		< 0.05		0.87		0.37		0.34		0.25		0.21		0.17		< 0.05		0.14		0.16		0.12		0.11	
Sr	mg/L	0.021		0.021		0.015		0.008		0.01		0.008		0.007		0.007		0.008		0.006		0.007		0.006		0.006	
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001	
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005	
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
U	mg/L	< 0.0005		0.0016		0.0013		0.0006		0.0007		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005	
V	mg/L	0.002		0.002		0.0017		0.001		0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005	
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	

Weeks	#	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Date		14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05	30-Aug-05	6-Sep-05	13-Sep-05	20-Sep-05	27-Sep-05	4-Oct-05	11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05	29-Nov-05
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		470	485	490	500	465	485	505	485	475	485	490	490	460	455	475	495	465	485	410	455	430	450	425	440	430
pH	Effluent (units)	7.56	6.95	7.37	7.14	7.03	7.47	6.91	7.18	7.27	7.24	6.59	6.76	7.14	7.03	7.21	7.31	7.12	7.46	7.46	7.37	7.42	7.59	7.20	7.05	6.91
Cond.	(umhos/cm)	10	10	11	11	12	13	11	11	11	10	10	11	10	9	9	10	9	9	12	7	6	8	8	8	7
ORP	mV	190	125	130	160	170	105	160	135	120	145	130	140	130	170	120	155	150	220	165	230	160	160	145	140	180
Sulphate	(mg/L)	< 1	1	< 1	1	1	1	< 1	1	1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	< 1
Acidity	(mg CaCO3/L)	1	1	1	2	2	1	4	2	2	2	3	3	1	1	1	< 1	1	1	1	1	1	1	1	4	1
Alkalinity	(mg CaCO3/L)	3	3	3	3	4	4	3	4	4	4	3	4	4	4	4	5	4	3	5	3	3	4	3	1	3
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L																	<0.1				<0.1				<0.1
Chloride	mg/L																	0.37				0.4				<0.2
TDS	mg/L																	41				37				46
Al	mg/L	0.033		0.043		0.057		0.048		0.037		0.033		0.033				0.028				0.031				0.022
Sb	mg/L	< 0.001		0.001		0.001		0.001		0.001		0.001		0.001				< 0.001				< 0.001				0.0007
As	mg/L	0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0002
Ba	mg/L	0.002		< 0.001		< 0.001		0.001		0.001		0.001		0.001				< 0.001				< 0.001				0.0007
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05				< 0.01
Cd	mg/L	< 0.0002		0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002				< 0.0002				< 0.00004
Ca	mg/L	1.06		1.08		1.29		1.07		1.07		1.30		1.04				0.91				0.78				0.68
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0003
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05				< 0.01
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002
Li	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0003
Mg	mg/L	0.25		0.27		0.32		0.24		0.25		0.24		0.26				0.25				0.20				0.17
Mn	mg/L	0.002		0.002		0.001		0.002		0.001		0.001		0.001				< 0.001				< 0.001				0.0008
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L	< 0.0005		0.0006		0.0008		0.0006		0.0006		0.0007		0.0007				0.0005				< 0.0005				0.0003
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15				< 0.15				< 0.15				< 0.03
K	mg/L	0.4		0.4		0.3		0.3		0.3		0.2		0.3				0.2				0.2				0.2
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002
Si	mg/L	1.7		1.8		2.2		1.3		1.4		1		1.4				1.2				0.5				0.4
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025				< 0.00025				< 0.00005
Na	mg/L	0.11		0.14		0.1		0.09		0.1		< 0.05		0.2				< 0.05				< 0.05				0.18
Sr	mg/L	0.005		0.005		0.006		0.005		0.005		0.006		0.005				0.004				0.004				0.0029
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001				< 0.0001				< 0.00002
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005				< 0.0001
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				0.001				< 0.001				< 0.0002
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005				< 0.0001
V	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0003
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		0.017		< 0.005				< 0.005				< 0.005				0.002
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01				< 0.01				< 0.002

Weeks	#	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Date		6-Dec-05	########	########	########	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	########	########	########	7-Mar-06	########	########	########	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	########	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		465	400	500	480	490	420	485	490	480	485	490	510	435	485	470	465	465	435	420	470	480	480	480	485	485
pH	Effluent (units)	6.97	6.92	6.97	7.04	7.14	7.73	7.58	7.51	7.73	7.17	7.23	6.91	7.75	7.64	6.51	6.40	7.19	7.21	7.10	7.34	6.94	7.03	6.89	6.83	6.91
Cond.	(umhos/cm)	9	8	8	8	7	6	7	8	10	8	9	9	6	6	7	5	6	7	11	5	5	5	5	4	5
ORP	mV	140	195	180	175	175	200	180	180	140	160	210	170	200	190	180	170	100	105	145	170	130	110	130	120	130
Sulphate	(mg/L)	2	1	1	< 1	1	< 1	1	1	2	1	1	3	1	1	< 1	1	< 1	< 1	< 1	1	< 1	1	< 1	< 1	1
Acidity	(mg CaCO3/L)	< 1	2	3	6	3	3	1	1	1	2	3	1	1	1	2	2	2	< 1	< 1	1	1	2	2	1	1
Alkalinity	(mg CaCO3/L)	3	2	3	2	2	2	2	5	2	3	2	3	3	3	2	2	2	2	3	3	3	2	2	2	2
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L				<0.1				0.1				<0.1				<0.1				<0.1				<0.1	
Chloride	mg/L				<0.2				<0.2				0.3				0.3				<0.2				<0.2	
TDS	mg/L				10				15				5				18				<1				<1	
Al	mg/L				0.011				0.014				0.014				0.029				0.011				0.027	
Sb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
As	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
Ba	mg/L				< 0.001				< 0.001				0.001				< 0.001				< 0.001				<0.001	
Be	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
Bi	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
B	mg/L				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				<0.05	
Cd	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				<0.0002	
Ca	mg/L				0.70				0.64				0.75				0.6				0.56				0.51	
Cr	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
Co	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
Cu	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
Fe	mg/L				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				<0.05	
Pb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
Li	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
Mg	mg/L				0.22				0.17				0.20				0.18				0.15				0.17	
Mn	mg/L				< 0.001				< 0.001				0.001				< 0.001				< 0.001				<0.001	
Hg	ug/L				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				<0.02	
Mo	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005	
Ni	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
P	mg/L				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				<0.15	
K	mg/L				0.2				0.2				0.4				0.2				0.2				0.2	
Se	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
Si	mg/L				1.2				0.5				0.6				0.5				0.4				0.6	
Ag	mg/L				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				<0.00025	
Na	mg/L				< 0.05				0.12				0.23				0.07				0.06				<0.05	
Sr	mg/L				0.003				0.003				0.004				0.003				0.002				0.003	
Te	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
Tl	mg/L				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				<0.0001	
Th	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005	
Sn	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
Ti	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
U	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005	
V	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001	
Zn	mg/L				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				<0.005	
Zr	mg/L				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				<0.01	

Weeks	#	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Date		########	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	########	########	########	5-Sep-06	########	########	########	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06	14-Nov-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	460	465	450	470	505	370	500	460	495	475	480	445	470	470	490	495	485	495	490	500	490	485	490	490
pH	Effluent (units)	6.95	6.84	6.91	6.91	6.92	6.95	6.98	6.89	6.87	7.05	6.86	6.92	6.39	6.86	6.78	6.72	6.91	6.80	6.75	6.69	6.90	6.90	6.86	6.88	6.78
Cond.	(umhos/cm)	4	6	8	5	4	4	4	5	4	5	4	4	5	4	4	5	6	3	6	4	5	4	4	4	4
ORP	mV	140	120	130	135	145	150	175	120	170	160	130	175	160	160	190	180	155	155	170	155	130	125	135	110	120
Sulphate	(mg/L)	< 1	< 1	< 1	< 1	< 1	1	1	1	1	< 1	< 1	1	1	< 1	< 1	1	1	1	1	1	1	2	1	1	1
Acidity	(mg CaCO3/L)	1	2	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	2	1	1	1	1
Alkalinity	(mg CaCO3/L)	2	2	2	4	4	4	3	4	3	4	3	4	3	4	4	4	4	4	4	4	4	2	3	3	3
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L			<0.1				<0.1				<0.1				<0.1				<0.1				<0.1		
Chloride	mg/L			<0.2				<0.2				<0.2				0.4				<0.2				0.7		
TDS	mg/L			45				12				12				2				25				32		
Al	mg/L			0.018				0.02				0.013				0.019				0.005				<0.005		
Sb	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
As	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Ba	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Be	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Bi	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
B	mg/L			< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05		
Cd	mg/L			< 0.0002				<0.0002				<0.0002				< 0.0002				< 0.0002				<0.0002		
Ca	mg/L			0.59				0.4				0.46				0.46				0.48				0.46		
Cr	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Co	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Cu	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Fe	mg/L			< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05		
Pb	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Li	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Mg	mg/L			0.18				0.12				0.13				0.18				0.16				0.16		
Mn	mg/L			< 0.001				<0.001				<0.001				0.001				< 0.001				0.001		
Hg	ug/L			< 0.02				<0.02				<0.02				< 0.02				< 0.02				<0.02		
Mo	mg/L			< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005		
Ni	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
P	mg/L			< 0.15				<0.15				<0.15				< 0.15				< 0.15				<0.15		
K	mg/L			0.2				0.1				0.2				< 0.1				< 0.1				0.2		
Se	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Si	mg/L			0.5				<0.25				0.4				0.4				< 0.25				0.4		
Ag	mg/L			< 0.00025				<0.00025				<0.00025				< 0.00025				< 0.00025				<0.00025		
Na	mg/L			< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05		
Sr	mg/L			0.004				0.002				0.002				0.002				0.002				0.003		
Te	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Tl	mg/L			< 0.0001				<0.0001				<0.0001				< 0.0001				< 0.0001				<0.0001		
Th	mg/L			< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005		
Sn	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Ti	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
U	mg/L			< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005		
V	mg/L			< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Zn	mg/L			< 0.005				<0.005				<0.005				< 0.005				< 0.005				<0.005		
Zr	mg/L			< 0.01				<0.01				<0.01				< 0.01				< 0.01				<0.01		

Humidity Cell Sample Data

HC 10 - Granite
04-ARD-191-002
04-ARD-191-003
04-ARD-191-004

Weeks	#	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118
Date		21-Nov-06	28-Nov-06	5-Dec-06	########	########	########	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	########	########	########	6-Mar-07	########	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		475	495	460	495	490	490	490	465	440	485	475	455	470	490	455	470	455	480
pH	Effluent (units)	6.74	6.73	6.68	6.91	6.70	6.63	6.76	6.62	6.80	6.62	6.84	6.53	6.67	6.69	6.80	6.82	6.68	6.67
Cond.	(umhos/cm)	4	4	4	4	4	3	6	4	4	7	4	4	5	4	5	5	4	5
ORP	mV	120	110	110	105	100	110	120	105	105	95	100	95	100	110	95	100	110	105
Sulphate	(mg/L)	< 1	1	< 1	1	1	1	< 1	1	1	2	< 1	1	1	1	1	1	2	1
Acidity	(mg CaCO3/L)	1	1	1	1	1	1	1	1	1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	3	3	4	3	4	3	3	4	4	4	5	3	3	4	4	3	3	4
Total P	mg/L																		
TDP	mgP/L																		
Fluoride	mg/L		<0.1				<0.05				< 0.05				< 0.05				< 0.05
Chloride	mg/L		0.3				<0.2				< 0.2				< 0.2				< 0.2
TDS	mg/L		2				26				< 10				< 10				19
Al	mg/L		< 0.005				0.016				0.011				0.012				0.008
Sb	mg/L		< 0.001				0.0005				< 0.001				< 0.001				< 0.001
As	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Ba	mg/L		< 0.001				0.001				0.001				< 0.001				< 0.001
Be	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Bi	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
B	mg/L		< 0.05				< 0.01				< 0.05				< 0.05				< 0.05
Cd	mg/L		< 0.0002				< 0.00004				< 0.0002				< 0.0002				< 0.0002
Ca	mg/L		0.47				0.36				0.45				0.46				0.42
Cr	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Co	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Cu	mg/L		< 0.001				0.0003				< 0.001				< 0.001				< 0.001
Fe	mg/L		< 0.05				0.01				< 0.05				< 0.05				< 0.05
Pb	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Li	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Mg	mg/L		0.15				0.12				0.14				0.13				0.14
Mn	mg/L		< 0.001				0.001				< 0.001				0.001				< 0.001
Hg	ug/L		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L		< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005
Ni	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
P	mg/L		< 0.15				< 0.03				< 0.15				< 0.15				< 0.15
K	mg/L		0.2				0.11				0.1				0.1				0.1
Se	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Si	mg/L		0.3				0.26				0.3				0.3				0.3
Ag	mg/L		< 0.00025				< 0.00005				< 0.00025				< 0.00025				< 0.00025
Na	mg/L		0.07				0.04				< 0.05				< 0.05				0.05
Sr	mg/L		0.003				0.002				0.003				0.002				0.002
Te	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Tl	mg/L		< 0.0001				< 0.00002				< 0.0001				< 0.0001				< 0.0001
Th	mg/L		< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005
Sn	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Ti	mg/L		< 0.001				0.0003				< 0.001				< 0.001				< 0.001
U	mg/L		< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005
V	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Zn	mg/L		0.018				0.001				< 0.005				< 0.005				< 0.005
Zr	mg/L		< 0.01				< 0.002				< 0.01				< 0.01				< 0.01

Weeks	#	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136
Date		########	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07	24-Jul-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		480	495	455	485	460	480	475	460	450	425	470	490	450	470	485	490	480	495
pH	Effluent (units)	6.65	6.56	6.55	6.66	6.52	6.71	6.27	6.52	6.29	6.48	6.50	6.69	6.45	6.71	6.50	6.53	6.43	6.54
Cond.	(umhos/cm)	5	5	4	5	4	5	5	5	4	4	5	5	4	5	5	6	5	6
ORP	mV	110	105	100	110	110	115	105	105	105	105	110	105	105	110	110	110	110	110
Sulphate	(mg/L)	2	2	1	1	1	2	1	1	1	1	1	< 1	1	2	< 1	1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	1	1	< 1	< 1	1	1	1	1	1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	4	4	3	3	3	2	3	3	3	3	3	1	3	3	3	3	3	3
Total P	mg/L																		
TDP	mgP/L																		
Fluoride	mg/L				< 0.05				< 0.05				< 0.05				< 0.05		
Chloride	mg/L				< 0.2				< 0.2				< 0.2				< 0.2		
TDS	mg/L				< 10				< 10				< 10				< 10		
Al	mg/L				< 0.005				0.003				0.003				< 0.005		
Sb	mg/L				< 0.001				0.0008				0.0006				< 0.001		
As	mg/L				< 0.001				< 0.0002				< 0.0002				< 0.001		
Ba	mg/L				< 0.001				0.0006				0.0005				< 0.001		
Be	mg/L				< 0.001				< 0.0002				< 0.0002				< 0.001		
Bi	mg/L				< 0.001				< 0.0002				< 0.0002				< 0.001		
B	mg/L				< 0.05				< 0.01				< 0.01				< 0.05		
Cd	mg/L				< 0.0002				< 0.00004				< 0.00004				< 0.0002		
Ca	mg/L				0.49				0.42				0.36				0.38		
Cr	mg/L				< 0.001				< 0.0002				< 0.0002				< 0.001		
Co	mg/L				< 0.001				< 0.0002				< 0.0002				< 0.001		
Cu	mg/L				< 0.001				0.0006				0.0007				0.002		
Fe	mg/L				< 0.05				< 0.01				< 0.01				< 0.05		
Pb	mg/L				< 0.001				< 0.0002				< 0.0002				< 0.001		
Li	mg/L				< 0.001				< 0.001				< 0.001				< 0.005		
Mg	mg/L				0.18				0.15				0.12				0.12		
Mn	mg/L				0.001				0.001				0.001				0.001		
Hg	ug/L				< 0.02				< 0.02				< 0.02				< 0.02		
Mo	mg/L				< 0.0005				< 0.0001				< 0.0001				< 0.0005		
Ni	mg/L				< 0.001				< 0.0002				< 0.0002				< 0.001		
P	mg/L				< 0.15				< 0.03				< 0.03				< 0.15		
K	mg/L				0.1				0.12				0.1				0.1		
Se	mg/L				< 0.001				< 0.0002				< 0.0002				< 0.001		
Si	mg/L				0.3				0.3				0.24				< 0.25		
Ag	mg/L				< 0.00025				< 0.00005				< 0.00005				< 0.00025		
Na	mg/L				0.07				0.03				0.03				< 0.05		
Sr	mg/L				0.003				0.0023				0.002				0.003		
Te	mg/L				< 0.001				< 0.0002				< 0.0002				< 0.001		
Tl	mg/L				< 0.0001				< 0.00002				< 0.00002				< 0.0001		
Th	mg/L				< 0.0005				< 0.0001				< 0.0001				< 0.0005		
Sn	mg/L				< 0.001				< 0.0002				< 0.0002				< 0.001		
Ti	mg/L				< 0.001				< 0.0002				< 0.0002				< 0.001		
U	mg/L				< 0.0005				< 0.0001				< 0.0001				< 0.0005		
V	mg/L				< 0.001				< 0.0002				< 0.0002				< 0.001		
Zn	mg/L				< 0.005				0.002				< 0.001				< 0.005		
Zr	mg/L				< 0.01				< 0.002				< 0.002				< 0.01		

Weeks	#	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154
Date		31-Jul-07	7-Aug-07	########	########	########	4-Sep-07	########	########	########	2-Oct-07	9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		495	505	485	495	490	505	470	460	450	470	480	475	460	480	490	475	470	495
pH	Effluent (units)	6.54	6.49	6.42	6.43	6.36	6.36	6.49	6.46	6.53	6.40	6.27	6.30	6.34	6.43	6.25	6.16	6.15	6.21
Cond.	(umhos/cm)	6	5	6	6	6	6	6	6	6	5	5	5	4	5	5	4	4	4
ORP	mV	160	165	135	135	130	155	140	135	130	130	130	130	120	115	110	120	125	110
Sulphate	(mg/L)	1	1	< 1	1	1	1	< 1	1	1	2	< 1	1	1	1	2	< 1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	3	2	2	2	3	3	3	3	2	2	2	2	2	3	2	3	2	2
Total P	mg/L																		
TDP	mgP/L																		
Fluoride	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05
Chloride	mg/L		< 0.2				< 0.2				< 0.2				< 0.2				< 0.2
TDS	mg/L		< 10				< 10				< 10				12				19
Al	mg/L		< 0.005				< 0.005				0.03				0.053				0.08
Sb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
As	mg/L		< 0.001				< 0.001				< 0.001				0.003				< 0.001
Ba	mg/L		< 0.001				< 0.001				< 0.001				0.002				0.002
Be	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Bi	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
B	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05
Cd	mg/L		< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Ca	mg/L		0.45				0.58				0.52				4.41				0.54
Cr	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Co	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Cu	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				0.002
Fe	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05
Pb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				0.002
Li	mg/L		< 0.005				< 0.001				< 0.001				0.002				< 0.001
Mg	mg/L		0.15				0.14				0.14				0.34				0.14
Mn	mg/L		0.002				0.002				0.002				< 0.001				0.005
Hg	ug/L		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L		< 0.0005				< 0.0005				< 0.0005				0.001				< 0.0005
Ni	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
P	mg/L		< 0.15				< 0.15				< 0.15				< 0.15				< 0.15
K	mg/L		0.1				0.1				< 0.1				0.4				0.2
Se	mg/L		< 0.001				< 0.001				< 0.001				0.002				< 0.001
Si	mg/L		0.3				0.3				< 0.25				< 0.25				0.3
Ag	mg/L		< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025
Na	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05
Sr	mg/L		0.002				0.002				0.004				0.007				0.003
Te	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Tl	mg/L		< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Th	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
Sn	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Ti	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
U	mg/L		< 0.0005				< 0.0005				< 0.0005				0.0005				< 0.0005
V	mg/L		< 0.001				< 0.001				< 0.001				0.001				< 0.001
Zn	mg/L		< 0.005				< 0.005				< 0.005				< 0.005				< 0.005
Zr	mg/L		< 0.01				< 0.01				< 0.01				< 0.01				< 0.01

Weeks	#	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172
Date		4-Dec-07	########	########	########	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	########	########	########	4-Mar-08	########	########	########	1-Apr-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		495	485	495	490	500	450	475	490	450	480	475	465	470	460	480	470	475	495
pH	Effluent (units)	6.12	6.32	6.29	6.24	7.16	6.23	6.29	6.35	6.33	6.35	6.33	6.25	6.26	6.24	6.25	6.26	6.26	6.31
Cond.	(umhos/cm)	4	5	5	4	11	3	5	5	5	5	5	5	5	5	5	5	5	5
ORP	mV	110	105	100	110	110	110	110	110	115	110	115	115	115	120	120	120	140	140
Sulphate	(mg/L)	1	1	1	< 1	1	2	1	< 1	1	1	2	1	< 1	1	< 1	1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	1	< 1	1	1	< 1	< 1	1	< 1	1	< 1	< 1	1	< 1	1
Alkalinity	(mg CaCO3/L)	2	3	3	2	7	2	2	3	2	2	2	2	2	2	2	2	2	2
Total P	mg/L																< 0.02		
TDP	mgP/L																-		
Fluoride	mg/L				< 0.05				< 0.05				< 0.05				< 0.05		
Chloride	mg/L				< 0.2				< 0.2				< 0.2				< 0.2		
TDS	mg/L				< 10				22				13				22	CCME DL	
Al	mg/L				0.012				0.005				< 0.005				< 0.005	0.004	
Sb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001	0.0004	
As	mg/L				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002	
Ba	mg/L				< 0.001				0.001				0.001				0.001	0.001	
Be	mg/L				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002	
Bi	mg/L				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002	
B	mg/L				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01	
Cd	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.00004	
Ca	mg/L				0.34				0.46				0.41				0.39	0.43	
Cr	mg/L				< 0.001				< 0.001				0.002				< 0.001	< 0.0002	
Co	mg/L				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002	
Cu	mg/L				< 0.001				< 0.001				< 0.001				< 0.001	0.0006	
Fe	mg/L				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01	
Pb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002	
Li	mg/L				< 0.001				0.003				< 0.001				< 0.001	0.0003	
Mg	mg/L				0.12				0.16				0.16				0.15	0.17	
Mn	mg/L				0.001				0.004				0.005				0.005	0.0055	
Hg	ug/L				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02	
Mo	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001	
Ni	mg/L				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002	
P	mg/L				< 0.15				< 0.15				< 0.15				< 0.15	< 0.03	
K	mg/L				< 0.1				< 0.1				< 0.1				< 0.1	0.08	
Se	mg/L				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002	
Si	mg/L				< 0.25				0.3				2.9				< 0.25	0.21	
Ag	mg/L				< 0.00025				< 0.00025				< 0.00025				< 0.00025	< 0.00005	
Na	mg/L				< 0.05				< 0.05				< 0.05				< 0.05	0.04	
Sr	mg/L				0.002				0.002				0.003				0.002	0.0025	
Te	mg/L				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002	
Tl	mg/L				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.00002	
Th	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001	
Sn	mg/L				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002	
Ti	mg/L				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002	
U	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001	
V	mg/L				< 0.001				< 0.001				0.007				< 0.001	< 0.0002	
Zn	mg/L				< 0.005				< 0.005				< 0.005				< 0.005	0.001	
Zr	mg/L				< 0.01				< 0.01				< 0.01				< 0.01	< 0.002	

Weeks	#	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190
Date		8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		475	480	485	470	485	470	495	475	480	490	485	485	485	480	480	475	475	450
pH	Effluent (units)	6.33	6.27	6.31	6.36	6.20	6.67	6.27	6.32	6.33	6.21	6.18	6.22	6.15	6.42	6.53	6.28	6.42	6.59
Cond.	(umhos/cm)	4	5	5	5	4	5	6	6	4	6	5	6	6	5	5	6	6	5
ORP	mV	120	120	140	130	130	130	125	130	125	115	130	120	120	130	140	140	120	125
Sulphate	(mg/L)	< 1	1	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1	1	2	< 1	2	< 1	< 1	1	1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1
Alkalinity	(mg CaCO3/L)	2	2	2	3	2	2	2	2	3	2	2	3	2	2	2	2	3	3
Total P	mg/L		< 0.02				0.73				0.02				< 0.02	< 0.02	< 0.02	0.02	< 0.02
TDP	mgP/L		-				0.69				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluoride	mg/L		< 0.05				0.06				< 0.05				< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chloride	mg/L		< 0.2				< 0.2				< 0.2				< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
TDS	mg/L		< 10	CCME DL			< 10	CCME DL			10	CCME DL			< 10	< 10	< 10	< 10	< 10
Al	mg/L		< 0.005	0.004			< 0.005	0.003			0.017	0.003			0.003	0.001	0.002	0.003	0.003
Sb	mg/L		< 0.001	0.0004			< 0.001	0.0005			< 0.001	0.0005			0.0005	0.0004	0.0004	0.0003	0.0003
As	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Ba	mg/L		< 0.001	0.0012			0.001	0.0017			< 0.001	0.0008			0.0009	0.0011	0.0012	0.0009	0.0011
Be	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Bi	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
B	mg/L		< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cd	mg/L		< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Ca	mg/L		0.44	0.41			0.44	0.47			0.41	0.4			0.39	0.43	0.48	0.43	0.41
Cr	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Co	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Cu	mg/L		< 0.001	0.0008			< 0.001	0.0008			< 0.001	0.0007			0.0007	< 0.0002	0.0007	0.0005	0.007
Fe	mg/L		< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pb	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Li	mg/L		0.002	0.0005			< 0.001	0.0005			< 0.001	0.0002			0.0006	0.0003	< 0.0002	0.0003	0.0003
Mg	mg/L		0.15	0.16			0.2	0.18			0.15	0.16			0.16	0.13	0.14	0.16	0.14
Mn	mg/L		0.005	0.005			0.006	0.0065			0.006	0.0056			0.0057	0.0061	0.0059	0.006	0.0058
Hg	ug/L		< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Mo	mg/L		< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ni	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
P	mg/L		< 0.15	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
K	mg/L		< 0.1	0.07			0.1	0.08			< 0.1	0.06			0.08	0.08	0.07	0.06	0.07
Se	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Si	mg/L		0.3	0.25			0.4	0.3			0.3	0.27			0.22	0.2	0.22	0.26	0.22
Ag	mg/L		< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Na	mg/L		< 0.05	0.04			0.15	0.04			< 0.05	0.04			0.04	0.03	0.05	0.03	0.05
Sr	mg/L		0.003	0.0025			0.003	0.0028			0.002	0.0023			0.0024	0.0026	0.0025	0.0025	0.0024
Te	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Tl	mg/L		< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Th	mg/L		< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sn	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Ti	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
U	mg/L		< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
V	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Zn	mg/L		< 0.005	0.002			< 0.005	0.001			< 0.005	0.002			0.003	< 0.001	0.013	0.001	0.002
Zr	mg/L		< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Weeks	#	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Date		########	########	########	2-Sep-08	9-Sep-08	########	########	########	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		450	480	455	480	485	470	470	500	480	480	455	490	500	505	510	475	470
pH	Effluent (units)	6.16	6.19	6.23	6.27	6.18	6.30	6.20	6.09	6.17	6.29	6.27	6.12	6.05	6.11	6.37	6.20	6.33
Cond.	(umhos/cm)	5	6	5	5	4	5	5	7	4	5	5	6	5	6.7	7	7	7
ORP	mV	140	120	120	125	120	120	115	135	120	120	120	120	120	150	140	100	150
Sulphate	(mg/L)	2	1	1	< 1	1	< 1	2	1	1	2	< 1	1	< 1	1	1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	2	1	1	< 1	3	1	< 1	1	1	1	1	1	1	1
Alkalinity	(mg CaCO3/L)	2	2	3	2	2	3	3	2	2	3	2	2	2	2	2	3	2
Total P	mg/L				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
TDP	mgP/L				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Fluoride	mg/L				< 0.05				< 0.05				< 0.05				< 0.05	< 0.05
Chloride	mg/L				< 0.2				< 0.2				0.2				< 0.2	< 0.2
TDS	mg/L				12				22				14				< 10	22
Al	mg/L				0.003				0.002				0.003				0.004	0.006
Sb	mg/L				0.0004				0.0004				0.0003				< 0.0002	0.0003
As	mg/L				0.0003				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ba	mg/L				0.0012				0.0016				0.0016				0.0012	0.0014
Be	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Bi	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
B	mg/L				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Cd	mg/L				< 0.00004				< 0.00004				< 0.00004				< 0.00004	< 0.00004
Ca	mg/L				0.45				0.43				0.52				0.47	0.45
Cr	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Co	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Cu	mg/L				0.0012				0.0016				0.0031				0.015	0.0056
Fe	mg/L				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Pb	mg/L				< 0.0002				< 0.0002				0.0002				0.0002	0.0002
Li	mg/L				0.0003				0.0003				0.0004				0.0003	0.0004
Mg	mg/L				0.15				0.13				0.2				0.14	0.15
Mn	mg/L				0.0062				0.0059				0.0071				0.0067	0.0048
Hg	ug/L				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Ni	mg/L				< 0.0002				0.0002				< 0.0002				< 0.0002	< 0.0002
P	mg/L				< 0.03				< 0.03				< 0.03				< 0.03	< 0.03
K	mg/L				0.07				0.06				0.08				0.08	0.08
Se	mg/L				0.0011				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Si	mg/L				0.26				0.23				0.25				0.21	0.28
Ag	mg/L				< 0.00005				< 0.00005				< 0.00005				< 0.00005	< 0.00005
Na	mg/L				0.03				0.02				0.04				0.04	0.04
Sr	mg/L				0.0027				0.0027				0.0032				0.0024	0.0025
Te	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Tl	mg/L				< 0.00002				< 0.00002				< 0.00002				< 0.00002	< 0.00002
Th	mg/L				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Sn	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ti	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
U	mg/L				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
V	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Zn	mg/L				0.001				0.002				0.001				0.002	0.001
Zr	mg/L				< 0.002				< 0.002				< 0.002				< 0.002	< 0.002

Humidity Cell Sample Data

	S-Total:	0.05	%
HC 11 - Granite	**S^{2-}:**	0.05	%
04-ARD-199-031	**NP:**	5.97	t $CaCO_3$/1000 t
04-ARD-199-032	**CaNP:**	0.68	t $CaCO_3$/1000 t
04-ARD-199-033	**AP:**	1.45	t $CaCO_3$/1000 t

Weeks	#	0	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	27	28	29	30	31	32	33	34	35	36
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05	7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		555	390	395	405	450	505	400	450	430	425	355	335	480	425	460	465	465	495	435	430	425	490	450	480	480	480	480	480	475	490	455	495	485	460	470	480	475
pH	Effluent (units)	7.71	7.92	7.59	7.73	7.98	7.53	7.45	7.67	7.34	7.38	7.47	7.65	6.92	7.72	7.65	7.59	7.61	7.67	8.06	7.76	7.69	7.62	7.70	7.23	7.27	7.41	7.04	7.09	7.10	7.41	7.04	7.40	7.02	7.19	7.30	7.32	6.91
Cond.	(umhos/cm)	42	43	50	41	40	31	25	27	33	29	18	18	33	30	28	26	22	23	19	17	19	23	19	24	23	25	21	23	22	23	25	26	21	22	24	22	22
ORP	mV	230	210	110	100	100	120	120	145	115	110	105	110	170	145	175	165	150	150	125	160	125	130	110	150	130	180	200	92	130	180	200	145	170	145	135	155	145
Sulphate	(mg/L)	5	5	5	3	1	1	< 1	< 1	1	< 1	< 1	1	< 1	< 1	< 1	1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1
Acidity	(mg CaCO3/L)	1	1	< 1	2	2	2	1	< 1	1	1	1	< 1	2	3	2	6	1	2	2	1	2	2	2	1	1	1	2	2	2	2	2	2	4	2	3	2	2
Alkalinity	(mg CaCO3/L)	7	8	12	12	13	13	8	10	11	10	5	6	11	11	11	10	9	10	8	8	7	10	7	9	9.3	10	9	8	8	8	9	9	8	9	10	9	9
F	mg/L																																					
Al	mgP/L	0.08		0.099		0.063		0.065		0.056		0.079		0.051		0.046		0.056		0.066		0.059		0.057		0.075		0.069		0.07		0.095		0.059		0.065		0.063
Sb	mg/L	0.002				0.0031		0.002		0.002		< 0.001		0.001		0.001		< 0.001		< 0.001		< 0.001		0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
As	mg/L	0.001		0.001		<0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.003		< 0.001		0.003		0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ba	mg/L	0.007		0.005		0.0059		0.003		0.005		0.003		0.004		0.004		0.003		0.003		0.003		0.003		0.004		0.003		0.003		0.003		0.004		0.003		0.003
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		0.0003		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	3.66		3.99		4.8		2.96		3.99		2.35		4.16		4.07		3.6		2.81		2.6		3.24		3.57		3.19		3.31		3.73		3.45		3.20		3.26
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.01		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.002		0.004		0.0016		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Mg	mg/L	0.4		0.6		0.54		0.28		0.35		0.19		0.28		0.25		0.22		0.2		0.17		0.19		0.24		0.2		0.23		0.24		0.19		0.2		0.21
Mn	mg/L	0.006		0.04		0.042		0.022		0.026		0.008		0.023		0.022		0.021		0.015		0.013		0.016		0.018		0.017		0.014		0.013		0.008		0.006		0.004
Ng	mg/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.0023		0.0026		0.0014		0.0006		0.0006		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	ug/L	2		2.1		1.07		0.5		0.6		0.4		0.7		0.5		0.6		0.4		0.3		0.4		0.5		0.5		0.5		0.4		0.4		0.4		0.4		0.3
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
SiO2	mg/L	1.2		1		1.63		1		1.1		0.7		1.3		1.4		1		1.2		1.2		1		1.4		1.5		1.6		1.8		1		1.1		0.9
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	2.4		< 0.05		0.96		0.36		0.37		0.21		0.22		0.18		< 0.05		0.15		0.12		0.12		0.12		0.1		0.12		0.09		0.08		0.09		< 0.05		< 0.05
Sr	mg/L	0.043		0.049		0.047		0.025		0.031		0.017		0.027		0.024		0.021		0.016		0.015		0.017		0.018		0.016		0.015		0.016		0.014		0.013		0.013
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	0.0005		0.024		0.026		0.012		0.022		0.0095		0.015		0.013		0.011		0.0071		0.0068		0.0063		0.0086		0.0074		0.0065		0.0084		0.0046		0.004		0.0047	
V	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		0.01		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01

Humidity Cell Sample Data

HC 12 - Granite	**S-Total:**	0.02	%
04-ARD-139-037	**S^{2-}:**	0.02	%
04-ARD-139-038	**NP:**	6.83	t $CaCO_3$/1000 t
04-ARD-139-039	**CaNP:**	2.20	t $CaCO_3$/1000 t
	AP:	0.71	t $CaCO_3$/1000 t

Weeks	#	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		590	375	400	450	460	440	480	485	485	465	500	420	485	485	470	460	475	470	410	425	470	475	470	470	450
pH	Effluent (units)	7.72	7.98	7.45	7.47	8.00	7.30	7.64	7.73	7.42	7.36	6.75	7.53	7.65	7.79	7.96	7.78	7.63	7.36	7.82	7.93	7.63	7.85	7.88	7.35	7.75
Cond.	(umhos/cm)	83	33	78	71	56	34	45	35	35	32	34	16	33	32	29	25	24	22	13	16	30	26	22	26	19
ORP	mV	220	165	120	100	105	100	125	135	120	110	170	160	170	120	170	170	150	150	120	150	115	115	120	150	110
Sulphate	(mg/L)	20	5	17	12	7	4	4	2	3	1	2	2	2	1	1	2	1	< 1	2	1	< 1	1	1	< 1	1
Acidity	(mg CaCO3/L)	3	1	2	2	2	2	1	1	1	1	2	< 1	1	1	1	4	1	1	2	< 1	2	1	1	1	1
Alkalinity	(mg CaCO3/L)	11	6	10	14	14	10	14	12	11	10	10	5	10	10	10	9	10	9	5	8	10	10	10	10	7
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L																									
Chloride	mg/L																									
TDS	mg/L																									
Al	mg/L	0.041		0.11		0.074		0.072		0.061		0.062		0.065		0.067		0.085		0.094		0.064		0.065		0.079
Sb	mg/L	0.001		0.003		0.0038		0.003		0.002		0.002		0.002		0.002		0.002		< 0.001		0.001		0.001		< 0.001
As	mg/L	< 0.001		< 0.001		0.0011		0.001		0.002		0.001		0.001		< 0.001		0.001		0.003		0.001		0.001		0.001
Ba	mg/L	0.011		0.006		0.0078		0.008		0.006		0.008		0.008		0.008		0.008		0.004		0.009		0.01		0.006
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	7.62		6.27		5.69		4.93		3.65		3.93		3.93		3.9		3.81		1.71		3.64		3.80		2.75
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.004		0.007		0.0044		0.003		0.002		0.002		0.001		0.001		0.001		< 0.001		0.001		0.001		< 0.001
Mg	mg/L	0.82		0.84		0.67		0.56		0.42		0.43		0.42		0.38		0.39		0.2		0.41		0.4		0.34
Mn	mg/L	0.011		0.013		0.0081		0.006		0.004		0.004		0.004		0.003		0.004		< 0.001		0.001		< 0.001		< 0.001
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.01		0.029		0.02		0.016		0.0081		0.0074		0.0065		0.0049		0.0048		0.002		0.005		0.0042		0.0035
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	mg/L	2.6		2.3		1.27		1		0.7		0.7		0.8		0.6		0.7		0.4		0.5		0.6		0.4
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Si	mg/L	1		1.1		2		1.9		1.4		1.5		1.5		1.4		1.4		1		1.5		1.2		1.2
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	4.94		< 0.05		2.03		1.25		0.67		0.56		0.44		0.34		0.15		0.19		0.29		0.24		0.2
Sr	mg/L	0.09		0.09		0.073		0.063		0.046		0.048		0.045		0.041		0.04		0.019		0.039		0.038		0.027
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	< 0.0005		0.0006		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
V	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01

Weeks	#	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Date		7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05	30-Aug-05	6-Sep-05	13-Sep-05	20-Sep-05	27-Sep-05	4-Oct-05	11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		475	460	465	460	485	400	495	445	490	465	490	480	475	385	500	480	495	440	480	450	470	465	480	485	470
pH	Effluent (units)	7.43	7.34	7.18	7.45	7.52	7.24	7.65	7.21	7.42	7.34	7.49	7.15	7.20	7.64	7.50	7.58	7.64	7.59	7.74	7.53	7.67	7.54	7.59	7.49	7.60
Cond.	(umhos/cm)	24	23	24	22	24	20	37	23	34	31	30	28	33	23	29	27	28	22	25	21.2	26	23	28	28	27
ORP	mV	170	140	130	140	180	190	145	170	145	140	155	150	150	140	165	135	165	160	190	145	140	150	150	165	155
Sulphate	(mg/L)	< 1	< 1	1	< 1	1	1	< 1	< 1	2	1	< 1	1	1	< 1	1	1	< 1	1	1	1	2	1	< 1	2	2
Acidity	(mg CaCO3/L)	2	2	1	1	2	2	1	2	1	2	2	3	3	1	2	< 1	1	1	1	1	1	1	2	1	1
Alkalinity	(mg CaCO3/L)	9	16	8	9	9	7	14	8	12	12	13	11	13	10	12	12	12	9	11	10	12	12	13	11	12
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L																		0.1				0.1			
Chloride	mg/L																		0.42				0.4			
TDS	mg/L																		22				15			
Al	mg/L		0.067		0.078		0.14		0.091		0.099		0.091		0.094				0.089				0.093			
Sb	mg/L		0.001		0.001		< 0.001		0.001		0.002		0.001		0.001				< 0.001				0.001			
As	mg/L		0.002		0.001		0.002		0.001		0.001		0.001		0.001				0.001				0.001			
Ba	mg/L		0.008		0.006		0.005		0.008		0.01		0.01		0.009				0.007				0.01			
Be	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Bi	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
B	mg/L		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05			
Cd	mg/L		< 0.0002		0.0003		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L		3.18		3.17		2.67		2.98		3.93		3.73		3				2.75				3.58			
Cr	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Co	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Cu	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Fe	mg/L		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05			
Pb	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Li	mg/L		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Mg	mg/L		0.41		0.56		0.35		0.33		0.47		0.43		0.37				0.38				0.47			
Mn	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Hg	ug/L		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02				< 0.02				< 0.02			
Mo	mg/L		0.0042		0.004		0.0038		0.0035		0.0041		0.0039		0.0033				0.0031				0.0034			
Ni	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
P	mg/L		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15				< 0.15				< 0.15			
K	mg/L		0.5		0.6		0.5		0.5		0.5		0.5		0.5				0.4				0.5			
Se	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Si	mg/L		1.7		1.6		1.8		1.1		1.5		1.1		1.2				1				0.7			
Ag	mg/L		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025				< 0.00025			
Na	mg/L		0.21		0.5		0.17		0.16		0.19		< 0.05		0.12				< 0.05				0.12			
Sr	mg/L		0.031		0.029		0.024		0.027		0.034		0.032		0.025				0.022				0.027			
Te	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Tl	mg/L		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001				< 0.0001			
Th	mg/L		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Ti	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
U	mg/L		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005			
V	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Zn	mg/L		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005				< 0.005				< 0.005			
Zr	mg/L		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01				< 0.01			

Weeks	#	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
Date		29-Nov-05	6-Dec-05	########	########	########	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	########	########	########	7-Mar-06	########	########	########	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		480	415	420	500	475	500	470	430	425	410	490	495	460	465	460	470	480	455	420	460	480	490	485	490	440
pH	Effluent (units)	7.45	7.48	7.31	7.22	7.48	7.58	7.67	7.71	7.94	7.73	7.52	7.36	7.21	7.51	7.56	7.16	7.26	7.56	7.58	7.34	7.39	7.65	7.18	7.51	7.47
Cond.	(umhos/cm)	27	22	23	26	25	23	25	19	19	24	27	30	26	24	22	26	20	23	19	18	22	21	20	20	14
ORP	mV	150	135	190	185	185	185	210	180	195	145	180	215	80	195	160	170	120	110	110	130	165	140	100	130	135
Sulphate	(mg/L)	1	2	1	< 1	< 1	1	1	1	1	2	1	1	< 1	1	1	< 1	1	< 1	< 1	< 1	1	1	1	1	1
Acidity	(mg CaCO3/L)	< 1	< 1	2	3	4	< 1	4	1	1	1	1	1	1	1	< 1	1	2	< 1	< 1	2	1	1	1	1	1
Alkalinity	(mg CaCO3/L)	13	7	10	13	11	10	11	7	8	9	12	12	10	11	9	11	10	10	8	10	11	11	10	9	7
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L	0.1				0.1				0.7				<0.1				<0.1				<0.1				<0.1
Chloride	mg/L	<0.2				<0.2				<0.2				0.3				0.3				0.3				<0.2
TDS	mg/L	14				25				12				<5				32				32				22
Al	mg/L	0.070				0.059				0.071				0.063				0.097				0.059				0.100
Sb	mg/L	0.0013				0.001				< 0.001				< 0.001				0.001				0.001				<0.001
As	mg/L	0.001				0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Ba	mg/L	0.01				0.01				0.01				0.01				0.01				0.009				0.007
Be	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Bi	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
B	mg/L	< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				<0.05
Cd	mg/L	< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				<0.0002
Ca	mg/L	3.76				3.45				2.37				2.95				3.16				3.01				2.12
Cr	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Co	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Cu	mg/L	0.0003				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Fe	mg/L	< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				<0.05
Pb	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Li	mg/L	0.0007				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Mg	mg/L	0.51				0.52				0.35				0.46				0.54				0.47				0.39
Mn	mg/L	0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				<0.02
Mo	mg/L	0.0028				0.0032				0.0028				0.0027				0.0031				0.0026				0.0022
Ni	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
P	mg/L	< 0.03				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				<0.15
K	mg/L	0.4				0.5				0.4				0.5				0.4				0.4				0.4
Se	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Si	mg/L	0.6				1.2				0.5				0.6				0.6				0.5				0.5
Ag	mg/L	< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				<0.00025
Na	mg/L	0.25				< 0.05				0.16				0.31				0.13				0.1				<0.05
Sr	mg/L	0.024				0.022				0.015				0.018				0.019				0.016				0.012
Te	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Tl	mg/L	< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				<0.0001
Th	mg/L	< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005
Sn	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Ti	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
U	mg/L	< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005
V	mg/L	0.0004				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Zn	mg/L	0.002				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				<0.005
Zr	mg/L	< 0.002				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				<0.01

Weeks	#	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98
Date		########	########	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	########	########	########	5-Sep-06	########	########	########	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		415	465	495	445	435	505	500	390	500	480	490	490	490	500	490	500	495	460	490	485	490	505	490	485
pH	Effluent (units)	7.49	7.54	7.44	7.47	7.57	7.63	7.80	7.79	7.55	7.66	7.70	7.58	7.67	7.55	7.31	7.45	7.48	7.69	7.49	7.40	7.47	7.69	7.49	7.54
Cond.	(umhos/cm)	13	15	26	21	14	20	15	10	18	16	18	17	18	16	17	17	17	16	13	19	16	17	16	15
ORP	mV	130	140	130	140	145	150	135	110	135	110	110	145	110	160	160	190	170	155	165	135	150	115	125	130
Sulphate	(mg/L)	1	1	1	1	1	1	1	1	2	1	< 1	1	1	1	1	1	1	1	2	1	1	1	2	1
Acidity	(mg CaCO3/L)	< 1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Alkalinity	(mg CaCO3/L)	6	8	10	7	9	12	11	6	12	11	11	10	11	10	11	10	11	10	11	10	11	10	9	8
Total P	mg/L																								
TDP	mgP/L																								
Fluoride	mg/L				<0.1				<0.1				<0.1				<0.1				<0.1				<0.1
Chloride	mg/L				<0.2				<0.2				<0.2				<0.2				0.35				0.35
TDS	mg/L				47				67				25				2				35				35
Al	mg/L				0.071				0.090				0.067				0.059				0.048				0.046
Sb	mg/L				< 0.001				<0.001				0.001				< 0.001				< 0.001				<0.001
As	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Ba	mg/L				0.008				0.004				0.009				0.009				0.01				0.01
Be	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Bi	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
B	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05
Cd	mg/L				< 0.0002				<0.0002				<0.0002				< 0.0002				< 0.0002				<0.0002
Ca	mg/L				2.20				1.4				2.72				2.54				2.52				2.53
Cr	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Co	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Cu	mg/L				< 0.001				0.001				<0.001				< 0.001				< 0.001				<0.001
Fe	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05
Pb	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Li	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Mg	mg/L				0.40				0.3				0.48				0.60				0.51				0.56
Mn	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Hg	ug/L				< 0.02				<0.02				<0.02				< 0.02				< 0.02				<0.02
Mo	mg/L				0.0026				0.002				0.0019				0.0019				0.0019				0.0019
Ni	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
P	mg/L				< 0.15				<0.15				<0.15				< 0.15				< 0.15				<0.15
K	mg/L				0.3				0.3				0.4				0.2				< 0.1				0.4
Se	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Si	mg/L				0.4				0.3				0.5				0.5				0.3				0.5
Ag	mg/L				< 0.00025				<0.00025				<0.00025				< 0.00025				< 0.00025				<0.00025
Na	mg/L				< 0.05				<0.05				0.08				< 0.05				< 0.05				0.05
Sr	mg/L				0.012				0.007				0.03				0.013				0.012				0.013
Te	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Tl	mg/L				< 0.0001				<0.0001				<0.0001				< 0.0001				< 0.0001				<0.0001
Th	mg/L				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005
Sn	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Ti	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
U	mg/L				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005
V	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Zn	mg/L				< 0.005				<0.005				<0.005				< 0.005				0.012				<0.005
Zr	mg/L				< 0.01				<0.01				<0.01				< 0.01				< 0.01				<0.01

Humidity Cell Sample Data

HC 12 - Granite
04-ARD-139-037
04-ARD-139-038
04-ARD-139-039

Weeks	#	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125
Date		7-Nov-06	14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	########	########	########	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	########	########	########	6-Mar-07	########	########	########	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		500	490	480	470	480	475	490	480	440	440	410	480	490	445	480	480	425	450	430	485	495	485	455	475	440	490	480
pH	Effluent (units)	7.50	7.45	7.53	7.56	7.37	7.34	7.44	7.47	7.47	7.47	7.55	7.49	7.49	7.29	7.47	7.43	7.32	7.32	7.37	7.47	7.40	7.23	7.32	7.46	7.27	7.27	7.23
Cond.	(umhos/cm)	15	16	15	16	15	15	15	12	12	12	9	15	14	12	15	14	11	12	10	15	15	14	10	14	11	14	12
ORP	mV	125	125	110	125	115	110	105	105	100	105	100	105	105	105	100	110	100	105	110	100	110	100	115	105	105	100	120
Sulphate	(mg/L)	1	2	< 1	1	1	< 1	1	< 1	1	1	< 1	2	< 1	1	1	1	2	1	1	2	2	1	2	1	2	4	1
Acidity	(mg CaCO3/L)	1	1	1	1	1	1	< 1	1	< 1	< 1	< 1	1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	< 1	< 1	1	< 1
Alkalinity	(mg CaCO3/L)	10	10	9	9	10	9	10	8	7	8	7	10	8	7	9	9	6	8	7	9	9	9	7	8	7	8	8
Total P	mg/L																											
TDP	mgP/L																											
Fluoride	mg/L				<0.1				<0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Chloride	mg/L				0.35				<0.2				< 0.2				< 0.2				< 0.2				< 0.2			
TDS	mg/L				2				24				< 10				13				< 10				< 10			
Al	mg/L				0.058				0.044				0.048				0.037				0.043				0.035			
Sb	mg/L				< 0.001				0.0006				< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L				< 0.001				0.0002				< 0.001				< 0.001				< 0.001				< 0.001			
Ba	mg/L				0.009				0.0072				0.01				0.008				0.008				0.007			
Be	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L				< 0.05				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05			
Cd	mg/L				< 0.0002				< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L				2.36				1.9				2.47				1.95				2.02				2			
Cr	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001			
Cu	mg/L				0.003				0.0003				< 0.001				< 0.001				< 0.001				< 0.001			
Fe	mg/L				< 0.05				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05			
Pb	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L				< 0.001				0.0003				< 0.001				< 0.001				< 0.001				< 0.001			
Mg	mg/L				0.5				0.4				0.54				0.41				0.46				0.48			
Mn	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001			
Hg	ug/L				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L				0.0014				0.0011				0.0019				0.0016				0.0018				0.0021			
Ni	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001			
P	mg/L				< 0.15				< 0.03				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L				0.3				0.26				0.3				0.3				0.3				0.3			
Se	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L				0.4				0.31				0.3				0.3				0.3				0.3			
Ag	mg/L				< 0.00025				< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L				0.05				0.05				0.05				0.06				0.08				0.09			
Sr	mg/L				0.011				0.0086				0.011				0.009				0.009				0.009			
Te	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L				< 0.0001				< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L				< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L				< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001			
Zn	mg/L				< 0.005				0.002				< 0.005				< 0.005				< 0.005				< 0.005			
Zr	mg/L				< 0.01				< 0.002				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152
Date		########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	########	########	########	4-Sep-07	########	########	########	2-Oct-07	9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		460	465	455	475	485	470	430	500	490	490	500	495	470	485	505	490	505	480	475	460	455	490	470	475	500	480	470
pH	Effluent (units)	7.37	7.29	7.32	7.35	7.46	7.35	7.30	7.44	7.40	7.28	7.31	7.36	7.23	7.43	7.33	7.33	7.35	7.39	7.40	7.46	7.30	7.31	7.25	7.35	7.27	7.21	7.22
Cond.	(umhos/cm)	12	11	11	12	14	14	9	14	14	14	13	13	11	13	13	12	13	12	12	12	10	12	10	10	12	12	10
ORP	mV	110	105	105	100	115	110	110	110	110	115	115	145	155	140	145	145	145	140	140	135	130	130	130	120	110	120	120
Sulphate	(mg/L)	1	1	1	3	3	1	1	1	1	< 1	1	1	< 1	1	1	2	2	1	1	< 1	1	1	1	2	1	1	1
Acidity	(mg CaCO3/L)	< 1	< 1	1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	8	8	7	8	8	8	6	8	7	8	7	7	6	7	8	7	7	7	8	7	7	7	7	7	7	8	7
Total P	mg/L																											
TDP	mgP/L																											
Fluoride	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05		
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2		
TDS	mg/L	< 10				< 10				11				< 10				< 10				< 10				15		
Al	mg/L	0.04				0.034				0.031				0.046				0.025				0.073				< 0.005		
Sb	mg/L	0.0008				0.0008				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
As	mg/L	0.0002				0.0003				< 0.001				< 0.001				< 0.001				< 0.001				0.003		
Ba	mg/L	0.0066				0.0075				0.007				0.007				0.007				0.006				< 0.001		
Be	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Bi	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
B	mg/L	< 0.01				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05		
Cd	mg/L	< 0.00004				< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002		
Ca	mg/L	1.66				1.82				1.5				1.55				1.5				1.38				0.67		
Cr	mg/L	< 0.0002				< 0.0002				< 0.001				0.001				< 0.001				< 0.001				< 0.001		
Co	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Cu	mg/L	0.0005				0.0005				0.004				0.002				< 0.001				0.001				0.002		
Fe	mg/L	< 0.01				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05		
Pb	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Li	mg/L	< 0.001				< 0.001				< 0.005				< 0.005				< 0.001				< 0.001				0.003		
Mg	mg/L	0.38				0.42				0.33				0.33				0.34				0.31				0.24		
Mn	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				0.005		
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02		
Mo	mg/L	0.002				0.0019				0.0042				0.0019				0.002				0.0015				< 0.0005		
Ni	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
P	mg/L	< 0.03				< 0.03				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15		
K	mg/L	0.27				0.25				0.3				0.3				0.3				0.2				0.1		
Se	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				0.002		
Si	mg/L	0.29				0.28				0.3				0.3				0.3				0.3				0.3		
Ag	mg/L	< 0.00005				< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025		
Na	mg/L	0.06				0.06				< 0.05				0.21				< 0.05				< 0.05				< 0.05		
Sr	mg/L	0.0073				0.0075				0.007				0.006				0.006				0.007				0.004		
Te	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Tl	mg/L	< 0.00002				< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001		
Th	mg/L	< 0.0001				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005		
Sn	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Ti	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
U	mg/L	< 0.0001				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005		
V	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				0.004		
Zn	mg/L	< 0.001				< 0.001				< 0.005				< 0.005				0.23				< 0.005				< 0.005		
Zr	mg/L	< 0.002				< 0.002				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01		

Weeks	#	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179
Date		20-Nov-07	27-Nov-07	4-Dec-07	########	########	########	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	########	########	########	4-Mar-08	########	########	########	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		465	455	465	465	500	460	430	440	460	480	465	490	475	500	500	490	495	475	475	485	475	480	490	475	445	495	480
pH	Effluent (units)	7.26	7.19	7.03	7.19	7.19	7.14	7.11	7.12	7.16	7.22	7.13	7.14	7.14	7.13	7.13	7.12	7.12	7.15	7.15	7.16	7.19	7.16	7.25	7.11	7.15	7.09	7.14
Cond.	(umhos/cm)	9	9	8	11	10	10	9	9	10	11	10	10	10	10	10	10	10	9	9	9	8	10	9	9	8	8	10
ORP	mV	120	115	130	120	120	110	110	110	110	100	120	115	120	110	110	120	120	120	160	150	140	140	155	150	140	155	155
Sulphate	(mg/L)	1	< 1	1	1	< 1	1	1	1	1	1	< 1	< 1	1	2	1	< 1	1	1	1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	7	6	6	7	7	6	6	6	6	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6
Total P	mg/L																		< 0.02				< 0.02				0.02	
TDP	mgP/L																		-				-				< 0.02	
Fluoride	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	
Chloride	mg/L		< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2	
TDS	mg/L		12				< 10				17				14				15	CCME DL			10	CCME DL			< 10	CCME DL
Al	mg/L		0.03				0.031				0.034				0.024				0.023	0.019			0.03	0.018			0.027	0.02
Sb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0006			< 0.001	0.0007			< 0.001	0.0007
As	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Ba	mg/L		0.007				0.006				0.008				0.007				0.007	0.0063			0.007	0.0066			0.007	0.0066
Be	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Bi	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
B	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01
Cd	mg/L		< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004
Ca	mg/L		1.52				1.31				1.53				1.27				1.18	1.31			1.32	1.3			1.21	1.27
Cr	mg/L		< 0.001				< 0.001				< 0.001				0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Co	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Cu	mg/L		0.002				< 0.001				< 0.001				< 0.001				< 0.001	0.0004			< 0.001	0.0008			< 0.001	0.0004
Fe	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01
Pb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Li	mg/L		< 0.001				< 0.001				0.003				< 0.001				< 0.001	0.0006			0.001	0.0003			< 0.001	0.0003
Mg	mg/L		0.3				0.33				0.42				0.35				0.3	0.38			0.33	0.37			0.37	0.36
Mn	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Hg	ug/L		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02
Mo	mg/L		0.0015				0.0014				0.0015				0.0013				0.0014	0.0014			0.0016	0.0015			0.0015	0.0015
Ni	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
P	mg/L		< 0.15				< 0.15				< 0.15				< 0.15				< 0.15	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03
K	mg/L		0.3				0.2				0.2				0.2				0.2	0.18			0.2	0.19			0.3	0.22
Se	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Si	mg/L		0.3				< 0.25				0.3				2.1				< 0.25	0.23			0.4	0.26			0.4	0.27
Ag	mg/L		< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005
Na	mg/L		< 0.05				0.06				0.05				< 0.05				< 0.05	0.04			< 0.05	0.02			0.14	0.05
Sr	mg/L		0.006				0.005				0.006				0.006				0.005	0.005			0.005	0.0053			0.005	0.0052
Te	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Tl	mg/L		< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.00002			< 0.0001	0.00003			< 0.0001	< 0.00002
Th	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001
Sn	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Ti	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
U	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001
V	mg/L		< 0.001				< 0.001				< 0.001				0.003				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Zn	mg/L		< 0.005				0.016				< 0.005				< 0.005				< 0.005	0.003			< 0.005	0.001			< 0.005	0.002
Zr	mg/L		< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002

Weeks	#	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Date		########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	########	########	########	2-Sep-08	9-Sep-08	########	########	########	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		480	465	465	460	490	490	490	480	500	480	440	455	500	490	500	485	495	480	485	480	485	460	480	485	480	495	455	470
pH	Effluent (units)	7.12	7.13	7.15	7.08	7.00	7.03	7.09	7.09	7.04	6.94	6.93	6.89	7.07	7.12	7.04	7.09	6.99	7.10	7.03	6.90	7.08	6.73	6.60	6.47	6.51	6.55	6.42	6.50
Cond.	(umhos/cm)	9	8	10	10	11	10	9	12	11	11	11	10	9	8	10	7	9	8	9	12	9	19	20	22	18	17	19	23
ORP	mV	150	155	140	160	160	145	145	150	150	140	140	155	130	130	140	130	130	125	140	130	125	135	140	145	140	150	130	150
Sulphate	(mg/L)	1	< 1	1	2	2	1	< 1	2	< 1	2	1	< 1	< 1	< 1	< 1	1	2	2	< 1	< 1	< 1	< 1	< 1	2	2	1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	1	< 1	< 1	< 1	2	< 1	< 1	< 1	< 1	1	< 1	< 1	1	1
Alkalinity	(mg CaCO3/L)	6	5	5	5	5	5	5	6	5	5	5	4	5	5	5	5	6	6	5	5	5	4	3	3	3	2	3	2
Total P	mg/L			0.11				< 0.02	< 0.02	< 0.02	0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
TDP	mgP/L			< 0.02				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Fluoride	mg/L			< 0.05				< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.05
Chloride	mg/L			0.42				< 0.2	0.73	0.74	0.9	1.35				< 0.2				< 0.2				4.82				3.26	4.66
TDS	mg/L			< 10	CCME DL			< 10	< 10	20	< 10	< 10				18				11				< 10				14	37
Al	mg/L			0.039	0.027			0.028	0.059	0.015	0.038	0.028				0.033				0.035				0.033				0.03	0.3
Sb	mg/L			< 0.001	0.0006			0.0007	0.0007	0.0008	0.0006	0.0005				0.0008				0.0007				0.0004				0.0003	0.0004
As	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	0.0002
Ba	mg/L			0.006	0.0063			0.0061	0.0084	0.0073	0.0069	0.0079				0.0067				0.0087				0.02				0.016	0.028
Be	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Bi	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
B	mg/L			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Cd	mg/L			< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004				0.00004				< 0.00004				< 0.00004				< 0.00004	< 0.00004
Ca	mg/L			1.13	1.17			1.18	1.37	1.21	1.21	1.25				1.1				1.15				2.37				1.77	2.31
Cr	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				0.0003				< 0.0002				< 0.0002				< 0.0002	0.0004
Co	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Cu	mg/L			< 0.001	0.0008			0.0007	0.0005	0.0006	0.0005	0.0008				0.0005				0.001				0.0024				0.0048	0.015
Fe	mg/L			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				< 0.01				0.03				0.02	0.44
Pb	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				0.0002				< 0.0002	0.0023
Li	mg/L			< 0.001	< 0.0002			0.0004	0.0003	< 0.0002	0.0003	0.0002				< 0.0002				< 0.0002				0.0006				0.0003	0.0012
Mg	mg/L			0.31	0.34			0.34	0.31	0.31	0.35	0.33				0.28				0.25				0.69				0.43	0.81
Mn	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				0.0003				0.0002				0.0022				0.0034	0.013
Hg	ug/L			< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L			0.0013	0.0014			0.0015	0.0015	0.0012	0.0011	0.0009				0.0014				0.0013				0.0003				0.0002	< 0.0001
Ni	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				0.0003				< 0.0002				0.0004	0.0005
P	mg/L			< 0.15	< 0.03			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03				< 0.03				< 0.03				< 0.03				< 0.03	< 0.03
K	mg/L			0.2	0.22			0.21	0.25	0.22	0.22	0.22				0.21				0.2				0.3				0.3	0.45
Se	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Si	mg/L			< 0.25	0.21			0.29	0.29	0.25	0.32	0.24				0.28				0.24				0.35				0.27	0.79
Ag	mg/L			< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005	< 0.00005
Na	mg/L			< 0.05	0.03			0.05	0.06	0.06	0.06	0.05				0.04				0.04				0.06				0.08	0.11
Sr	mg/L			0.005	0.0049			0.0048	0.0057	0.0048	0.005	0.0051				0.0044				0.005				0.01				0.0066	0.0098
Te	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Tl	mg/L			< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002	< 0.00002
Th	mg/L			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Sn	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	0.0006
Ti	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				0.0021				0.0009	0.029
U	mg/L			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
V	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	0.0006
Zn	mg/L			< 0.005	< 0.001			0.003	< 0.001	0.001	< 0.001	< 0.001				0.002				< 0.001				< 0.001				0.002	0.007
Zr	mg/L			< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002	< 0.002

Humidity Cell Sample Data

HC 13 - Granite	**S-Total:**	0.02	%
04-ARD-120-003	**S^{2-}:**	0.02	%
04-ARD-120-004	**NP:**	3.27	t $CaCO_3$/1000 t
04-ARD-120-005	**CaNP:**	1.893939333	t $CaCO_3$/1000 t
	AP:	0.6	t $CaCO_3$/1000 t

Weeks	#	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		570	410	380	470	485	450	440	380	365	455	360	340	475	475	455	390	470	460	375	370	470	500	490	490	455
pH	Effluent (units)	8.30	7.94	7.59	7.68	8.11	7.40	7.76	7.87	7.21	7.37	7.53	7.68	7.76	7.82	8.02	7.86	7.82	7.72	7.68	7.81	7.89	7.80	7.74	7.40	7.85
Cond.	(umhos/cm)	38	45	33	44	39	30	35	21	16	35	17	19	35	38	29	17	27	27	11	10	34	29	25	33	25
ORP	mV	200	140	115	105	100	100	130	130	115	120	170	100	150	125	160	160	150	160	120	150	120	120	110	150	145
Sulphate	(mg/L)	3	3	1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	1	1	< 1	< 1	< 1	< 1	< 1	< 1
Acidity	(mg CaCO3/L)		2	< 1	3	1	2	1	< 1	1	1	1	< 1	1	1	1	3	1	1	1	1	1	2	1	2	1
Alkalinity	(mg CaCO3/L)	9	14	10	16	15	13	12	7	6	13	5	6	14	14	11	7	13	12	5	5	13	12	13	13	10
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L																									
Chloride	mg/L																									
TDS	mg/L																									
Al	mg/L	0.081		0.13		0.1		0.093		0.086		0.092		0.078		0.082		0.088		0.087		0.081		0.085		0.1
Sb	mg/L	0.001		0.001		0.0016		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
As	mg/L	0.002		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.003		< 0.001		< 0.001		0.001
Ba	mg/L	0.003		0.002		0.0021		0.002		< 0.001		0.001		0.002		< 0.001		0.001		< 0.001		0.002		0.002		0.001
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	3.03		3.37		5.3		4.78		1.94		2.37		5.11		4.83		5.11		1.69		5.02		5.43		4.21
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		0.06		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.003		0.002		0.0017		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Mg	mg/L	0.24		0.41		0.35		0.27		0.08		0.09		0.16		0.13		0.13		< 0.05		0.12		0.12		0.1
Mn	mg/L	0.006		0.029		0.049		0.028		0.01		0.006		0.02		0.018		0.021		0.006		0.018		0.018		0.014
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.0039		0.0025		0.0011		0.0008		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	mg/L	2.5		1.4		0.98		0.8		0.4		0.4		0.8		0.5		0.6		0.2		0.3		0.4		0.3
Se	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Si	mg/L	1.6		2		1.74		1.6		0.6		0.8		1.4		1.5		1.4		0.6		1.7		1.4		1.3
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	2.29		1.69		0.4		0.29		0.12		0.13		0.17		0.11		< 0.05		0.07		0.14		0.11		0.09
Sr	mg/L	0.017		0.019		0.02		0.018		0.006		0.007		0.014		0.011		0.012		0.004		0.011		0.011		0.008
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	< 0.0005		0.0049		0.0055		0.0056		0.0016		0.0017		0.0046		0.0039		0.0032		0.0007		0.0028		0.0021		0.0017
V	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01

Weeks	#	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Date		7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05	30-Aug-05	6-Sep-05	13-Sep-05	20-Sep-05	27-Sep-05	4-Oct-05	11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	455	480	485	490	460	500	500	470	490	490	480	500	470	495	495	485	490	500	490	490	480	495	500	490
pH	Effluent (units)	7.43	7.22	7.19	7.45	7.58	7.25	7.53	7.10	7.32	7.25	7.40	6.93	6.95	7.56	6.96	7.50	7.35	7.51	7.62	7.54	7.62	7.45	7.66	7.41	7.76
Cond.	(umhos/cm)	28	23	28	24	28	26	34	29	31	31	28	28	30	25	27	25	25	25	25	23	23	19	22	24	23
ORP	mV	180	140	130	145	180	195	140	200	130	140	155	150	150	150	165	135	160	130	195	150	200	140	150	170	155
Sulphate	(mg/L)	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	2
Acidity	(mg CaCO3/L)	< 1	1	1	1	1	2	1	3	2	2	2	3	3	1	1	1	1	1	1	1	1	1	1	2	2
Alkalinity	(mg CaCO3/L)	11	10	11	10	11	9	13	12	13	11	12	12	11	11	12	11	11	10	10	10	10	10	10	9	9
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L																		0.1				0.5			
Chloride	mg/L																		0.42				0.4			
TDS	mg/L																		22				20			
Al	mg/L		0.077		0.086		0.12		0.09		0.10		0.10		0.08				0.07				0.07			
Sb	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
As	mg/L		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Ba	mg/L		0.001		< 0.001		< 0.001		0.001		0.001		0.001		0.001				< 0.001				0.002			
Be	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Bi	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
B	mg/L		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05			
Cd	mg/L		< 0.0002		0.0003		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L		3.86		4.18		4.25		4.65		4.60		4.56		3.97				3.73				3.79			
Cr	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Co	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Cu	mg/L		< 0.001		< 0.001		0.15		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Fe	mg/L		< 0.05		< 0.05		0.07		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05			
Pb	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Li	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Mg	mg/L		0.09		0.17		0.09		0.08		0.08		0.07		0.06				0.06				0.06			
Mn	mg/L		0.013		0.012		0.013		0.009		0.007		0.006		0.004				0.002				0.001			
Hg	ug/L		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02				< 0.02				< 0.02			
Mo	mg/L		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				0.0006			
Ni	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
P	mg/L		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15				< 0.15				< 0.15			
K	mg/L		0.4		0.4		0.4		0.4		0.5		0.5		0.6				0.4				0.5			
Se	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Si	mg/L		1.5		1.6		1.7		1.2		1.2		1.0		1.2				1.0				0.6			
Ag	mg/L		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025				< 0.00025			
Na	mg/L		0.08		0.21		0.07		0.08		0.09		< 0.05		< 0.05				< 0.05				0.05			
Sr	mg/L		0.008		0.008		0.007		0.008		0.008		0.007		0.006				0.005				0.005			
Te	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Tl	mg/L		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001				< 0.0001			
Th	mg/L		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L		< 0.001		< 0.001		0.003		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Ti	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
U	mg/L		0.0014		0.0013		0.0015		0.001		0.0009		0.0009		0.0006				< 0.0005				< 0.0005			
V	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Zn	mg/L		< 0.005		< 0.005		0.013		< 0.005		< 0.005		< 0.005		0.038				< 0.005				< 0.005			
Zr	mg/L		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01				< 0.01			

Weeks	#	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
Date		29-Nov-05	6-Dec-05	########	########	########	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	########	########	########	7-Mar-06	########	########	########	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	490	360	500	470	490	475	495	495	445	495	490	500	465	460	475	500	420	395	445	445	500	485	500	480
pH	Effluent (units)	7.36	7.38	7.25	7.13	7.23	7.5	7.23	7.41	7.40	7.58	7.38	7.66	7.04	7.47	7.53	7.10	7.16	7.09	7.24	7.21	7.31	7.40	7.09	7.24	7.22
Cond.	(umhos/cm)	23	22	18	21	22	19	20	19	20	21	19	21	21	18	18	19	15	9	11	13	13	15	15	14	13
ORP	mV	140	150	220	185	185	190	205	180	195	140	175	215	150	150	170	180	150	105	125	125	170	140	100	135	155
Sulphate	(mg/L)	< 1	2	1	1	< 1	< 1	< 1	1	< 1	1	< 1	1	< 1	1	1	< 1	1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1
Acidity	(mg CaCO3/L)	1	< 1	4	4	5	3	3	1	2	1	1	1	1	1	< 1	< 1	1	< 1	1	1	2	1	2	1	1
Alkalinity	(mg CaCO3/L)	10	9	2	9	9	7	8	7	8	6	8	8	8	7	7	8	6	3	4	7	6	7	7	6	5
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L	0.5				0.50				0.50				0.48				0.42				0.46				0.52
Chloride	mg/L	<0.2				<0.2				0.4				0.3				<0.2				<0.2				0.30
TDS	mg/L	29				22				8				10				44				10				<1
Al	mg/L	0.06				0.05				0.05				0.04				0.07				0.04				0.06
Sb	mg/L	0.0004				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
As	mg/L	0.0003				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Ba	mg/L	0.0014				0.002				0.001				0.001				< 0.001				< 0.001				<0.001
Be	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Bi	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
B	mg/L	< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				<0.05
Cd	mg/L	< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				<0.0002
Ca	mg/L	3.61				3.47				2.91				2.92				2.67				2.18				2.32
Cr	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Co	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Cu	mg/L	0.0009				0.005				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Fe	mg/L	< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				<0.05
Pb	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Li	mg/L	0.0003				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Mg	mg/L	0.06				0.09				0.07				0.05				0.06				< 0.05				0.05
Mn	mg/L	0.0006				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				<0.02
Mo	mg/L	0.0007				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005
Ni	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
P	mg/L	< 0.03				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				<0.15
K	mg/L	0.4				0.4				0.4				0.5				0.4				0.3				0.4
Se	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Si	mg/L	0.5				1.1				0.6				0.5				0.5				0.3				0.5
Ag	mg/L	< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				<0.00025
Na	mg/L	0.16				< 0.05				0.15				0.23				0.08				0.06				<0.05
Sr	mg/L	0.0045				0.004				0.014				0.004				0.003				0.002				0.003
Te	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Tl	mg/L	< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				<0.0001
Th	mg/L	< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005
Sn	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Ti	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
U	mg/L	0.0003				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005
V	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Zn	mg/L	0.003				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				<0.005
Zr	mg/L	< 0.002				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				<0.01

Weeks	#	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
Date		########	########	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	########	########	########	5-Sep-06	########	########	########	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		375	410	495	455	420	480	460	370	470	475	490	485	485	495	465	400	465	435	490	500	495	460	470	465	495
pH	Effluent (units)	7.15	7.20	7.23	7.36	7.26	7.29	7.33	7.24	7.29	7.37	7.41	7.27	7.35	7.13	7.17	6.76	7.21	7.32	7.22	7.18	7.15	7.45	7.16	7.24	7.32
Cond.	(umhos/cm)	16	10	19	17	9	12	10	6	11	10	11	12	11	11	11	5	12	10	8	11	10	10	10	10	9
ORP	mV	160	155	140	135	150	150	125	120	150	130	130	160	130	110	170	160	170	160	130	135	165	135	135	120	125
Sulphate	(mg/L)	< 1	< 1	< 1	< 1	< 1	1	1	< 1	1	1	< 1	< 1	1	1	1	< 1	< 1	1	1	1	1	1	1	1	< 1
Acidity	(mg CaCO3/L)	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	2	1	1
Alkalinity	(mg CaCO3/L)	5	3	6	5	5	7	7	4	7	7	7	7	7	7	6	4	7	6	7	7	7	6	6	5	5
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L				0.49				0.29				0.48				0.24				0.431				0.41	
Chloride	mg/L				<0.2				<0.2				<0.2				<0.2				<0.2				0.4	
TDS	mg/L				45				76				<1				2				20				29	
Al	mg/L				0.05				0.05				0.04				0.017				0.061				0.023	
Sb	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
As	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Ba	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Be	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Bi	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
B	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Cd	mg/L				< 0.0002				<0.0002				<0.0002				< 0.0002				< 0.0002				<0.0002	
Ca	mg/L				2.41				1.07				2.21				0.88				1.91				1.80	
Cr	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Co	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Cu	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Fe	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Pb	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Li	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Mg	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Mn	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Hg	ug/L				< 0.02				<0.02				<0.02				< 0.02				< 0.02				<0.02	
Mo	mg/L				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005	
Ni	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
P	mg/L				< 0.15				<0.15				<0.15				< 0.15				< 0.15				<0.15	
K	mg/L				0.3				0.2				0.4				< 0.1				< 0.1				0.3	
Se	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Si	mg/L				0.4				<0.25				0.4				< 0.25				< 0.25				0.4	
Ag	mg/L				< 0.00025				<0.00025				<0.00025				< 0.00025				< 0.00025				<0.00025	
Na	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Sr	mg/L				0.004				0.001				0.002				0.003				0.002				0.002	
Te	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Tl	mg/L				< 0.0001				<0.0001				<0.0001				< 0.0001				< 0.0001				<0.0001	
Th	mg/L				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005	
Sn	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Ti	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
U	mg/L				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005	
V	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Zn	mg/L				< 0.005				<0.005				<0.005				< 0.005				< 0.005				<0.005	
Zr	mg/L				< 0.01				<0.01				<0.01				< 0.01				< 0.01				<0.01	

Humidity Cell Sample Data

HC 13 - Granite

04-ARD-120-003
04-ARD-120-004
04-ARD-120-005

Weeks	#	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Date		14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	########	########	########	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	########	########	########	6-Mar-07	########	########	########	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	485	505	480	460	440	475	415	440	410	470	485	450	480	420	460	495	450	430	500	495	500	485	475	470	475	470	500	420	480	440	475	485	495	480	485
pH	Effluent (units)	7.20	7.17	7.08	7.01	7.06	6.92	7.00	6.92	6.98	6.94	7.00	7.14	6.93	7.04	6.85	7.17	7.02	6.95	7.00	7.01	6.95	6.97	7.03	6.93	6.95	6.87	6.98	6.82	6.89	6.98	7.01	7.00	6.99	6.98	6.96	6.86
Cond.	(umhos/cm)	9	9	9	9	8	6	7	8	8	6	9	8	8	8	5	9	8	7	7	9	8	7	8	7	8	7	7	7	6	7	7	7	7	7	8	8
ORP	mV	130	125	130	120	110	110	120	105	105	110	100	100	105	105	110	105	105	110	100	105	105	115	120	120	110	105	100	105	120	110	100	110	120	120	110	110
Sulphate	(mg/L)	1	< 1	1	< 1	1	< 1	< 1	< 1	< 1	< 1	1	< 1	1	1	< 1	< 1	< 1	1	1	2	< 1	1	1	1	1	1	1	< 1	1	2	1	1	1	1	< 1	< 1
Acidity	(mg CaCO3/L)	1	1	1	1	1	1	1	1	1	< 1	1	< 1	1	< 1	1	< 1	< 1	< 1	< 1	1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	6	6	6	6	6	5	5	5	5	4	5	5	5	6	4	5	4	4	5	6	5	5	5	5	5	5	5	5	4	5	4	5	5	4	4	4
Total P	mg/L																																				
TDP	mgP/L																																				
Fluoride	mg/L			0.32				0.22				0.3				0.18				0.23				0.18				0.23				0.23				0.31	
Chloride	mg/L			0.3				<0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2	
TDS	mg/L			5				<10				< 10				< 10				15				< 10				34				31				< 10	
Al	mg/L			0.03				0.018				0.024				0.06				0.02				0.016				0.017				0.013				0.014	
Sb	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
As	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Ba	mg/L			< 0.001				0.0005				0.001				< 0.001				< 0.001				< 0.001				0.0005				0.0007				< 0.001	
Be	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Bi	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
B	mg/L			< 0.05				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.01				< 0.01				< 0.05	
Cd	mg/L			< 0.0002				< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.00004				< 0.00004				< 0.0002	
Ca	mg/L			1.6				1.24				1.62				0.89				1.22				1.3				1.16				0.9				0.96	
Cr	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Co	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Cu	mg/L			0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				0.0005				0.0005				0.001	
Fe	mg/L			< 0.05				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.01				< 0.01				< 0.05	
Pb	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				0.0008				< 0.001	
Li	mg/L			< 0.001				0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.005	
Mg	mg/L			< 0.05				0.03				< 0.05				< 0.05				< 0.05				0.09				0.03				0.02				< 0.05	
Mn	mg/L			< 0.001				0.0004				< 0.001				< 0.001				< 0.001				< 0.001				0.0003				0.0005				< 0.001	
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	
Mo	mg/L			< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0001				< 0.0005	
Ni	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
P	mg/L			< 0.15				< 0.03				< 0.15				< 0.15				< 0.15				< 0.15				< 0.03				< 0.03				< 0.15	
K	mg/L			0.2				0.2				0.2				0.2				0.2				0.2				0.2				0.14				0.2	
Se	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Si	mg/L			0.3				0.21				0.3				< 0.25				< 0.25				< 0.25				0.24				0.17				< 0.25	
Ag	mg/L			< 0.00025				< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00005				< 0.00005				< 0.00025	
Na	mg/L			< 0.05				0.03				< 0.05				< 0.05				0.05				0.08				0.04				0.03				< 0.05	
Sr	mg/L			0.002				0.0015				0.002				< 0.001				0.001				0.002				0.0014				0.001				0.002	
Te	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Tl	mg/L			< 0.0001				< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.00002				< 0.00002				< 0.0001	
Th	mg/L			< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0001				< 0.0005	
Sn	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Ti	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
U	mg/L			< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0001				< 0.0005	
V	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Zn	mg/L			< 0.005				< 0.001				< 0.005				0.01				< 0.005				< 0.005				0.001				< 0.001				< 0.005	
Zr	mg/L			< 0.01				< 0.002				< 0.01				< 0.01				< 0.01				< 0.01				< 0.002				< 0.002				< 0.01	

Weeks	#	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171
Date		24-Jul-07	31-Jul-07	7-Aug-07	########	########	########	4-Sep-07	########	########	########	2-Oct-07	9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	########	########	########	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	########	########	########	4-Mar-08	########	########	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	495	475	465	500	490	500	470	470	450	445	455	460	495	500	500	490	490	485	500	485	480	475	490	460	500	495	495	495	485	495	495	495	500	500	490
pH	Effluent (units)	6.87	6.96	6.80	6.91	6.92	6.82	6.83	6.86	6.91	6.86	6.81	6.72	6.68	6.83	6.78	6.71	6.73	6.77	6.58	6.56	6.71	6.65	6.65	6.67	6.60	6.61	6.66	6.64	6.56	6.64	6.63	6.63	6.64	6.71	6.58	6.61
Cond.	(umhos/cm)	8	8	7	8	8	7	7	8	7	7	7	6	6	6	6	6	6	5	5	5	6	6	6	6	5	7	7	6	6	6	6	6	6	5	6	6
ORP	mV	120	150	165	130	135	140	135	135	140	140	135	130	120	115	110	120	110	115	110	145	115	110	120	120	125	120	100	100	100	110	110	105	120	120	120	160
Sulphate	(mg/L)	1	1	1	1	< 1	1	3	1	1	< 1	2	< 1	1	1	1	1	< 1	< 1	1	1	1	< 1	1	< 1	3	1	1	< 1	1	1	1	1	< 1	1	2	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	4	4	3	4	4	4	4	4	4	4	4	3	3	4	4	3	4	4	4	3	4	4	3	4	3	3	4	3	4	3	3	3	3	3	3	3
Total P	mg/L																																			< 0.02	
TDP	mgP/L																																			-	
Fluoride	mg/L			0.18				0.26				0.27				0.18				0.17				0.19				0.2				0.17				0.18	
Chloride	mg/L			< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2	
TDS	mg/L			< 10				< 10				< 10				16				16				33				< 10				72				21	CCME DL
Al	mg/L			0.018				< 0.005				0.018				0.054				0.042				0.013				0.011				< 0.005				< 0.005	0.004
Sb	mg/L			< 0.001				< 0.001				< 0.001				0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
As	mg/L			< 0.001				< 0.001				< 0.001				0.003				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Ba	mg/L			< 0.001				< 0.001				< 0.001				0.012				0.002				< 0.001				< 0.001				< 0.001				< 0.001	0.0019
Be	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Bi	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
B	mg/L			< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01
Cd	mg/L			< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.00004
Ca	mg/L			1.07				0.95				1				2.61				1.04				0.78				0.93				0.72				0.82	0.9
Cr	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.001				< 0.001	< 0.0002
Co	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Cu	mg/L			< 0.001				< 0.001				< 0.001				0.001				0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0007
Fe	mg/L			< 0.05				< 0.05				< 0.05				< 0.05				0.07				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01
Pb	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Li	mg/L			< 0.005				< 0.001				< 0.001				0.004				< 0.001				< 0.001				0.003				< 0.001				< 0.001	0.0005
Mg	mg/L			< 0.05				< 0.05				< 0.05				0.62				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	0.04
Mn	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				0.003				< 0.001				< 0.001				0.001				0.002	0.0017
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L			< 0.0005				< 0.0005				< 0.0005				0.0032				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001
Ni	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
P	mg/L			< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15	< 0.03
K	mg/L			0.2				0.2				0.2				0.4				0.3				0.1				0.1				0.1				0.2	0.15
Se	mg/L			< 0.001				< 0.001				< 0.001				0.003				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Si	mg/L			< 0.25				< 0.25				< 0.25				0.8				0.3				< 0.25				< 0.25				2				< 0.25	0.21
Ag	mg/L			< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025	< 0.00005
Na	mg/L			< 0.05				< 0.05				< 0.05				0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	0.06
Sr	mg/L			0.001				< 0.001				0.002				0.012				0.002				< 0.001				0.001				< 0.001				0.001	0.0012
Te	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Tl	mg/L			< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.00002
Th	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001
Sn	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Ti	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				0.004				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
U	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001
V	mg/L			< 0.001				< 0.001				< 0.001				0.004				< 0.001				< 0.001				< 0.001				0.003				< 0.001	< 0.0002
Zn	mg/L			< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005	0.002
Zr	mg/L			< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.002

Weeks	#	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Date		1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	########	########	########	2-Sep-08	9-Sep-08	########	########	########	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		500	495	490	490	490	480	510	490	500	490	495	500	495	500	485	490	495	480	480	475	485	490	500	490	490	475	495	500	470	465	485	500	490	485	485	495
pH	Effluent (units)	6.61	6.62	6.59	6.56	6.45	6.49	6.46	6.54	6.50	6.54	6.49	6.51	6.40	6.47	6.49	6.53	6.50	6.46	6.65	6.35	6.47	6.57	6.89	6.70	6.69	6.50	6.32	6.43	6.41	6.51	6.65	6.42	6.43	6.35	6.40	6.70
Cond.	(umhos/cm)	5	5	6	6	6	5	4	6	6	5	6	6	6	6	6	7	6	6	6	6	6	6	6	4	6	6	6	5	7	7	7	7	7	6	6	7
ORP	mV	120	120	125	140	140	140	145	145	130	150	125	145	140	135	130	130	130	120	120	110	130	120	130	120	125	125	140	130	130	130	125	135	150	135	125	140
Sulphate	(mg/L)	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	1	< 1	1	< 1	1	1	< 1	< 1	1	1	1	< 1	< 1	1	< 1	2	< 1	< 1	1	< 1	2	2	2	1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	3	1	1	< 1	< 1	< 1	< 1	< 1	1	< 1	1	1	1	1
Alkalinity	(mg CaCO3/L)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	2	3	4	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3
Total P	mg/L			< 0.02				0.03				< 0.02				< 0.02	< 0.02	< 0.02	0.03	< 0.02				< 0.02				< 0.02				< 0.02				0.03	< 0.02
TDP	mgP/L			< 0.02				< 0.02				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Fluoride	mg/L			0.16				0.22				0.15				0.13	0.15	0.27	0.09	0.14				0.15				0.14				0.12				0.17	0.23
Chloride	mg/L			< 0.2				< 0.2				< 0.2				< 0.2	< 0.2	< 0.2	< 0.2	< 0.2				< 0.2				0.43				0.48				< 0.2	0.21
TDS	mg/L			< 10	CCME DL			< 10	CCME DL			< 10	CCME DL			< 10	10	14	< 10	< 10				12				< 10				< 10				< 10	16
Al	mg/L			0.007	0.005			< 0.005	0.003			0.022	0.004			0.004	0.003	0.003	0.005	0.003				0.004				0.005				0.005				0.003	0.005
Sb	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
As	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ba	mg/L			< 0.001	0.0006			< 0.001	0.0014			< 0.001	0.0007			0.0006	0.0007	0.0007	0.0006	0.0006				0.0007				0.0015				0.0009				0.0009	0.0009
Be	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Bi	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
B	mg/L			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Cd	mg/L			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004	< 0.00004
Ca	mg/L			0.9	0.82			0.77	0.82			0.81	0.81			0.88	0.83	0.79	0.81	0.78				0.75				0.83				0.92				0.71	0.83
Cr	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Co	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Cu	mg/L			< 0.001	0.0008			< 0.001	0.0009			< 0.001	0.0012			0.0014	0.0005	0.0006	0.0011	0.0021				0.0019				0.0032				0.0034				0.0038	0.0035
Fe	mg/L			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Pb	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Li	mg/L			< 0.001	0.0003			< 0.001	0.0003			< 0.001	< 0.0002			0.0004	0.0002	< 0.0002	0.0003	0.0002				< 0.0002				< 0.0002				0.0002				< 0.0002	0.0003
Mg	mg/L			< 0.05	0.03			< 0.05	0.03			< 0.05	0.03			0.04	0.03	0.03	0.04	0.03				0.03				0.03				0.04				0.03	0.03
Mn	mg/L			0.002	0.0018			0.002	0.0018			0.003	0.003			0.0037	0.0034	0.0034	0.0036	0.0043				0.0033				0.0042				0.0048				0.0044	0.0041
Hg	ug/L			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Ni	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			0.006	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
P	mg/L			< 0.15	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03			< 0.03	< 0.03	0.03	< 0.03	< 0.03				0.05				< 0.03				< 0.03				< 0.03	< 0.03
K	mg/L			0.1	0.13			0.2	0.14			0.1	0.15			0.14	0.14	0.14	0.14	0.16				0.14				0.1				0.11				0.09	0.1
Se	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Si	mg/L			< 0.25	0.17			0.3	0.26			< 0.25	0.18			0.21	0.15	0.17	0.2	0.18				0.19				0.15				0.18				0.16	0.21
Ag	mg/L			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005	< 0.00005
Na	mg/L			< 0.05	0.03			0.1	0.04			< 0.05	0.04			0.04	0.03	0.05	0.03	0.03				0.06				0.02				0.03				0.03	0.03
Sr	mg/L			0.001	0.0011			0.001	0.0011			0.001	0.0011			0.0012	0.0011	0.0011	0.0011	0.0011				0.001				0.0012				0.0014				0.0009	0.0011
Te	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Tl	mg/L			< 0.0001	0.00003			< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002	< 0.00002
Th	mg/L			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Sn	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ti	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
U	mg/L			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
V	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Zn	mg/L			< 0.005	0.001			< 0.005	0.001			< 0.005	0.001			< 0.001	< 0.001	0.002	0.001	< 0.001				0.002				0.001				0.001				0.001	0.001
Zr	mg/L			< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002	< 0.002

Humidity Cell Sample Data

HC 14 - Diorite & Granite
04-ARD-120-012
04-ARD-120-013
04-ARD-120-014

S-Total:	0.07	%
S^{2-}:	0.07	%
NP:	6.30	t $CaCO_3$/1000 t
CaNP:	2.58	t $CaCO_3$/1000 t
AP:	2.07	t $CaCO_3$/1000 t

Weeks	#	0	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	27	28	29	30	31	32	33
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05	7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		675	465	470	485	490	520	480	480	455	490	490	490	485	420	475	470	490	480	430	420	475	490	480	470	495	490	440	485	480	470	410	400	500	445
pH	Effluent (units)	8.43	8.01	7.73	7.73	7.90	7.48	7.75	7.75	7.73	7.50	7.55	7.82	7.76	7.95	7.92	7.45	7.54	7.65	7.45	7.66	7.77	7.50	7.91	7.21	7.75	7.42	7.25	7.33	7.53	7.47	7.31	7.61	7.23	7.38
Cond.	(umhos/cm)	36	55	58	51	49	36	38	33	29	38	34	30	35	25	33	30	28	30	21	18	32	27	24	30	26	27	23	27	26	27	26	25	28	27
ORP	mV	200	155	145	110	105	110	130	135	110	170	180	150	150	120	150	170	150	160	110	160	125	120	120	150	140	175	145	140	150	190	195	130	190	120
Sulphate	(mg/L)	4	8	5	3	1	1	< 1	< 1	1	< 1	1	2	< 1	< 1	1	1	< 1	< 1	4	1	< 1	1	1	< 1	< 1	2	< 1	1	< 1	1	2	2	< 1	1
Acidity	(mg CaCO3/L)		2	< 1	3	2	2	1	1	< 1	1	2	< 1	1	2	1	6	1	1	2	1	2	2	2	2	1	1	1	1	1	2	2	1	3	2
Alkalinity	(mg CaCO3/L)	9	16	20	18	17	16	14	13	10	13	12	11	12	9	13	12	11	12	9	8	11	12	10	10	10	10	8	10	11	9	9	7	12	10
Total P	mg/L																																		
TDP	mgP/L																																		
Fluoride	mg/L																																		
Chloride	mg/L																																		
TDS	mg/L																																		
Al	mg/L	0.075		0.13		0.081		0.086		0.073		0.074		0.071		0.074		0.068		0.084		0.076		0.078		0.073		0.079		0.077		0.1		0.072	
Sb	mg/L	0.001		0.004		0.0031		0.002		0.001		0.002		0.001		0.001		0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
As	mg/L	0.001		0.001		<0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.003		< 0.001		0.004		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Ba	mg/L	0.002		0.004		0.0031		0.003		0.001		0.003		0.002		0.003		0.003		0.002		0.003		0.003		0.003		0.002		0.003		0.002		0.007	
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05	
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002	
Ca	mg/L	3.22		6.37		5.71		4.84		3.46		4.57		4.32		5.11		4.6		3.26		4.43		4.72		4.38		3.53		4.26		4.05		4.68	
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Cu	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Fe	mg/L	< 0.05		0.09		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05	
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Li	mg/L	0.002		0.005		0.0024		0.002		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Mg	mg/L	0.37		1.05		0.72		0.55		0.33		0.41		0.34		0.33		0.31		0.2		0.25		0.23		0.23		0.18		0.23		0.18		0.17	
Mn	mg/L	0.003		0.083		0.057		0.041		0.024		0.032		0.026		0.025		0.022		0.012		0.018		0.017		0.014		0.009		0.008		0.006		0.006	
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02	
Mo	mg/L	0.0042		0.0051		0.0027		0.0015		0.0009		0.0009		0.0006		0.0006		0.0006		< 0.0005		0.0005		< 0.0005		< 0.0005		0.0005		0.0008		0.0011		0.0009	
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.004		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15	
K	mg/L	1.8		2.1		1.26		0.8		0.6		0.7		0.7		0.6		0.7		0.4		0.4		0.5		0.5		0.5		0.6		0.5		0.5	
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Si	mg/L	1		2.7		1.87		1.6		0.9		1.4		1.3		1.6		1.3		1.1		1.5		1.2		1.3		1.4		1.5		1.4		1.2	
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025	
Na	mg/L	1.51		2.28		0.65		0.36		0.21		0.23		0.15		0.22		< 0.05		0.11		0.13		0.11		0.11		0.10		0.16		0.09		0.09	
Sr	mg/L	0.022		0.047		0.037		0.029		0.018		0.024		0.021		0.022		0.019		0.014		0.018		0.018		0.016		0.013		0.015		0.014		0.016	
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001	
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005	
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
U	mg/L	< 0.0005		0.0044		0.0032		0.004		0.0037		0.0048		0.0039		0.0049		0.0036		0.0026		0.0033		0.0029		0.0028		0.0026		0.0026		0.0033		0.0023	
V	mg/L	0.001		0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005	
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	

Weeks	#	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Date		9-Aug-05	16-Aug-05	23-Aug-05	30-Aug-05	6-Sep-05	13-Sep-05	20-Sep-05	27-Sep-05	4-Oct-05	11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05	29-Nov-05	6-Dec-05	########	########	########	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	########	########	########	7-Mar-06	########	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		455	450	455	440	400	485	465	460	450	475	455	460	480	455	480	480	480	440	400	485	455	420	475	480	485	430	455	465	465	485	485	475	470
pH	Effluent (units)	7.38	7.43	7.19	7.03	7.68	7.67	7.65	7.50	7.59	7.75	7.71	7.76	7.51	7.69	7.57	7.76	7.46	7.55	7.45	7.25	7.28	7.46	7.83	7.19	6.41	7.32	7.43	7.55	7.19	7.03	7.56	7.24	7.28
Cond.	(umhos/cm)	30	29	27	34	30	31	29	25	29	31	28	30	27	28	31	30	31	28	22	27	28	18	28	25	27	30	27	31	30	26	26	31	24
ORP	mV	115	155	150	150	150	160	140	165	170	190	145	210	150	160	180	160	140	145	200	180	180	185	165	185	200	125	175	215	180	210	160	175	160
Sulphate	(mg/L)	2	1	< 1	2	1	1	2	2	2	1	1	2	1	1	2	3	2	2	2	1	2	1	1	2	2	2	2	1	2	2	2	1	2
Acidity	(mg CaCO3/L)	3	2	3	3	1	1	< 1	1	< 1	1	1	< 1	1	< 1	1	1	< 1	< 1	3	2	4	2	2	1	4	1	1	< 1	1	2	< 1	1	1
Alkalinity	(mg CaCO3/L)	11	12	10	12	12	12	12	10	11	12	11	12	12	12	10	11	13	11	6	11	11	6	10	9	10	9	11	11	11	10	10	11	9
Total P	mg/L																																	
TDP	mgP/L																																	
Fluoride	mg/L									0.3				0.35				0.33				0.30				0.30				0.27				0.20
Chloride	mg/L									0.41				0.4				<0.2				<0.2				<0.2				0.3				<0.2
TDS	mg/L									50				30				24				20				9				64				29
Al	mg/L	0.079		0.072		0.065				0.061				0.079				0.062				0.049				0.042				0.048				0.071
Sb	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0006				< 0.001				< 0.001				< 0.001				< 0.001
As	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0004				< 0.001				< 0.001				< 0.001				< 0.001
Ba	mg/L	0.003		0.002		0.003				0.002				0.003				0.0031				0.004				0.003				0.003				0.003
Be	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001
B	mg/L	< 0.05		< 0.05		< 0.05				< 0.05				< 0.05				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002				< 0.0002				< 0.0002				< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Ca	mg/L	4.32		4.21		4.49				4.36				5.12				4.71				4.68				4.01				4.29				4.29
Cr	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001
Cu	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0005				< 0.001				< 0.001				< 0.001				< 0.001
Fe	mg/L	< 0.05		< 0.05		< 0.05				< 0.05				< 0.05				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001
Li	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0005				< 0.001				< 0.001				< 0.001				< 0.001
Mg	mg/L	0.16		0.13		0.14				0.13				0.13				0.11				0.13				0.09				0.09				0.09
Mn	mg/L	0.004		0.003		0.003				0.002				0.001				0.0007				< 0.001				< 0.001				< 0.001				< 0.001
Hg	ug/L	< 0.02		< 0.02		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L	0.0011		0.0012		0.0014				0.0013				0.0015				0.0011				0.0012				0.0009				0.001				0.0011
Ni	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001
P	mg/L	< 0.15		< 0.15		< 0.15				< 0.15				< 0.15				< 0.03				< 0.15				< 0.15				< 0.15				< 0.15
K	mg/L	0.5		0.4		0.5				0.4				0.6				0.5				0.5				0.4				0.6				0.4
Se	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001
Si	mg/L	1.1		0.8		1.2				0.9				0.6				0.5				1.2				0.5				0.6				0.5
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025				< 0.00025				< 0.00025				< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025
Na	mg/L	0.09		< 0.05		0.06				< 0.05				0.06				0.19				< 0.05				0.13				0.27				0.07
Sr	mg/L	0.014		0.014		0.014				0.013				0.014				0.011				0.011				0.009				0.010				0.01
Te	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001				< 0.0001				< 0.0001				< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0003				< 0.001				< 0.001				< 0.001				< 0.001
U	mg/L	0.0019		0.0022		0.002				0.0018				0.0016				0.0014				0.0014				0.0012				0.0012				0.0012
V	mg/L	< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0003				< 0.001				< 0.001				< 0.001				< 0.001
Zn	mg/L	< 0.005		< 0.005		< 0.005				< 0.005				< 0.005				0.001				< 0.005				< 0.005				< 0.005				< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01				< 0.01				< 0.01				< 0.002				< 0.01				< 0.01				< 0.01				< 0.01

Weeks	#	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
Date		########	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	########	########	########	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	########	########	########	5-Sep-06	########	########	########	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		460	445	465	410	490	485	430	495	435	440	500	450	435	490	490	385	470	465	495	475	450	505	400	360	505	420	430	450	450	450	445	455	470
pH	Effluent (units)	7.49	7.43	7.35	7.20	7.69	7.15	7.30	7.45	7.58	7.52	7.47	7.59	7.39	7.51	7.48	7.60	7.40	7.51	7.71	7.55	7.62	7.53	7.39	7.39	7.55	7.73	7.59	7.56	7.56	7.71	7.66	7.53	7.65
Cond.	(umhos/cm)	26	28	23	15	24	23	17	23	17	13	28	28	15	20	17	13	15	19	19	18	20	20	16	14	23	15	13	24	19	18	18	18	19
ORP	mV	115	130	130	165	145	115	150	110	140	150	140	140	160	130	160	125	165	175	140	170	140	130	120	145	160	165	120	110	145	110	115	105	115
Sulphate	(mg/L)	2	1	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	1	2	2	2	2	2	1	1	1	1	1	1	2	2	2
Acidity	(mg CaCO3/L)	1	1	3	< 1	< 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	1	1
Alkalinity	(mg CaCO3/L)	9	10	10	6	11	10	7	10	6	7	10	10	8	10	11	6	9	11	11	10	11	11	8	7	12	9	10	12	11	10	10	10	10
Total P	mg/L																																	
TDP	mgP/L																																	
Fluoride	mg/L				0.24				0.29				0.25				0.24				0.25				0.25				0.28				0.23	
Chloride	mg/L				<0.2				<0.2				<0.2				<0.2				<0.2				<0.2				<0.2				0.3	
TDS	mg/L				24				4				53				32				28				2				30				37	
Al	mg/L				0.076				0.063				0.067				0.085				0.056				0.095				0.051				0.046	
Sb	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
As	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Ba	mg/L				0.002				0.003				0.003				0.002				0.004				0.002				0.003				0.003	
Be	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Bi	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
B	mg/L				< 0.05				<0.05				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Cd	mg/L				< 0.0002				<0.0002				< 0.0002				<0.0002				<0.0002				< 0.0002				< 0.0002				<0.0002	
Ca	mg/L				2.58				4.30				4.41				2.28				3.49				2.66				3.78				3.77	
Cr	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Co	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Cu	mg/L				< 0.001				<0.001				< 0.001				0.001				<0.001				< 0.001				< 0.001				<0.001	
Fe	mg/L				< 0.05				<0.05				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Pb	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Li	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Mg	mg/L				0.06				0.09				0.08				0.05				0.06				0.07				0.08				0.08	
Mn	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Hg	ug/L				< 0.02				<0.02				< 0.02				<0.02				<0.02				< 0.02				< 0.02				<0.02	
Mo	mg/L				0.0007				0.001				0.0009				0.0008				0.0006				0.0008				< 0.0005				<0.0005	
Ni	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
P	mg/L				< 0.15				<0.15				< 0.15				<0.15				<0.15				< 0.15				< 0.15				<0.15	
K	mg/L				0.3				0.5				0.4				0.3				0.4				0.3				0.1				0.4	
Se	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Si	mg/L				0.3				0.5				0.5				<0.25				0.4				0.3				< 0.25				0.4	
Ag	mg/L				< 0.00025				<0.00025				< 0.00025				<0.00025				<0.00025				< 0.00025				< 0.00025				<0.00025	
Na	mg/L				0.06				<0.05				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Sr	mg/L				0.005				0.008				0.008				0.005				0.006				0.01				0.007				0.007	
Te	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Tl	mg/L				< 0.0001				<0.0001				< 0.0001				<0.0001				<0.0001				< 0.0001				< 0.0001				<0.0001	
Th	mg/L				< 0.0005				<0.0005				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005	
Sn	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Ti	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
U	mg/L				0.0007				0.001				0.0012				0.0007				0.001				0.0008				0.0009				0.0008	
V	mg/L				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Zn	mg/L				< 0.005				<0.005				< 0.005				<0.005				<0.005				< 0.005				< 0.005				<0.005	
Zr	mg/L				< 0.01				<0.01				< 0.01				<0.01				<0.01				< 0.01				< 0.01				<0.01	

Humidity Cell Sample Data

HC 14 - Diorite & Granite
04-ARD-120-012
04-ARD-120-013
04-ARD-120-014

Weeks	#	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117
Date		14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	########	########	########	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	########	########	########	6-Mar-07	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		480	455	420	465	470	465	450	405	460	430	470	490	495	450	460	480	490	490
pH	Effluent (units)	7.49	7.60	7.38	7.53	7.49	7.41	7.46	7.37	7.52	7.50	7.51	7.57	7.38	7.42	7.48	7.41	7.49	7.50
Cond.	(umhos/cm)	20	18	15	20	20	16	16	12	18	16	17	17	18	15	19	20	17	19
ORP	mV	115	110	120	110	110	110	120	100	115	100	115	100	105	105	110	110	105	110
Sulphate	(mg/L)	3	< 1	2	1	1	1	2	1	1	< 1	2	< 1	2	2	< 1	3	1	3
Acidity	(mg CaCO3/L)	1	1	1	1	1	1	< 1	1	< 1	1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	10	10	8	10	10	10	9	8	10	9	9	10	10	9	9	10	10	10
Total P	mg/L																		
TDP	mgP/L																		
Fluoride	mg/L			0.19				0.08				0.22				0.12			
Chloride	mg/L			0.3				<0.2				< 0.2				< 0.2			
TDS	mg/L			6				<10				< 10				35			
Al	mg/L			0.053				0.036				0.041				0.034			
Sb	mg/L			< 0.001				0.0003				< 0.001				< 0.001			
As	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Ba	mg/L			0.002				0.0028				0.004				0.004			
Be	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Bi	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
B	mg/L			< 0.05				< 0.01				< 0.05				< 0.05			
Cd	mg/L			< 0.0002				< 0.00004				< 0.0002				< 0.0002			
Ca	mg/L			2.76				3.22				3.54				3.31			
Cr	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Co	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Cu	mg/L			0.002				0.0003				< 0.001				< 0.001			
Fe	mg/L			< 0.05				0.01				< 0.05				< 0.05			
Pb	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Li	mg/L			< 0.001				0.0003				< 0.001				< 0.001			
Mg	mg/L			< 0.05				0.06				0.07				0.06			
Mn	mg/L			< 0.001				0.0003				< 0.001				< 0.001			
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L			< 0.0005				0.0004				< 0.0005				0.0005			
Ni	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
P	mg/L			< 0.15				< 0.03				< 0.15				< 0.15			
K	mg/L			0.3				0.33				0.4				0.4			
Se	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Si	mg/L			0.3				0.27				0.3				< 0.25			
Ag	mg/L			< 0.00025				< 0.00005				< 0.00025				< 0.00025			
Na	mg/L			< 0.05				0.04				< 0.05				< 0.05			
Sr	mg/L			0.007				0.008				0.006				0.005			
Te	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Tl	mg/L			< 0.0001				< 0.00002				< 0.0001				< 0.0001			
Th	mg/L			< 0.0005				< 0.0001				< 0.0005				< 0.0005			
Sn	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Ti	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
U	mg/L			< 0.0005				0.0005				0.0006				0.0007			
V	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Zn	mg/L			0.006				< 0.001				< 0.005				< 0.005			
Zr	mg/L			< 0.01				< 0.002				< 0.01				< 0.01			

Weeks	#	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Date		########	########	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		460	485	480	485	465	460	500	490	455	460	440	475	445	485	455	505	445	470
pH	Effluent (units)	7.39	7.35	7.34	7.42	7.47	7.41	7.35	7.35	7.36	7.38	7.34	7.39	7.30	7.43	7.41	7.47	7.45	7.32
Cond.	(umhos/cm)	18	18	18	16	19	16	17	16	16	16	14	17	16	17	16	18	16	19
ORP	mV	110	105	105	100	110	105	105	115	110	110	115	105	110	110	110	110	110	110
Sulphate	(mg/L)	2	2	2	2	1	2	3	2	2	2	2	3	2	1	2	1	2	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	1	< 1	< 1	< 1	1	< 1	< 1	< 1	1	< 1	1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	10	11	10	9	10	9	10	9	9	9	8	9	9	9	8	8	7	9
Total P	mg/L																		
TDP	mgP/L																		
Fluoride	mg/L	0.18				0.22				0.17				0.18				0.22	
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2	
TDS	mg/L	< 10				< 10				17				< 10				< 10	
Al	mg/L	0.039				0.041				0.03				0.034				0.041	
Sb	mg/L	< 0.001				< 0.001				0.0004				0.0004				< 0.001	
As	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Ba	mg/L	0.004				0.004				0.0032				0.0025				0.003	
Be	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Bi	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
B	mg/L	< 0.05				< 0.05				< 0.01				< 0.01				< 0.05	
Cd	mg/L	< 0.0002				< 0.0002				< 0.00004				< 0.00004				< 0.0002	
Ca	mg/L	3.32				3.28				3.03				2.58				2.71	
Cr	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Co	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Cu	mg/L	< 0.001				< 0.001				0.0006				0.0007				0.001	
Fe	mg/L	< 0.05				< 0.05				< 0.01				< 0.01				< 0.05	
Pb	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Li	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.005	
Mg	mg/L	0.06				0.11				0.05				0.04				0.05	
Mn	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	
Mo	mg/L	0.0005				0.0006				0.0005				0.0004				0.0007	
Ni	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
P	mg/L	< 0.15				< 0.15				< 0.03				< 0.03				< 0.15	
K	mg/L	0.4				0.4				0.34				0.29				0.3	
Se	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Si	mg/L	0.3				0.3				0.26				0.21				< 0.25	
Ag	mg/L	< 0.00025				< 0.00025				< 0.00005				< 0.00005				< 0.00025	
Na	mg/L	0.06				0.07				0.03				0.04				< 0.05	
Sr	mg/L	0.006				0.006				0.0044				0.0038				0.013	
Te	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Tl	mg/L	< 0.0001				< 0.0001				< 0.00002				< 0.00002				< 0.0001	
Th	mg/L	< 0.0005				< 0.0005				< 0.0001				< 0.0001				< 0.0005	
Sn	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Ti	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
U	mg/L	0.0006				0.0005				0.0003				0.0004				< 0.0005	
V	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Zn	mg/L	< 0.005				< 0.005				< 0.001				< 0.001				< 0.005	
Zr	mg/L	< 0.01				< 0.01				< 0.002				< 0.002				< 0.01	

Weeks	#	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153
Date		24-Jul-07	31-Jul-07	7-Aug-07	########	########	########	4-Sep-07	########	########	########	2-Oct-07	9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		500	485	505	470	480	490	495	470	460	465	470	475	485	455	470	455	480	480
pH	Effluent (units)	7.37	7.36	7.44	7.41	7.35	7.38	7.44	7.45	7.46	7.50	7.42	7.33	7.33	7.34	7.39	7.21	7.19	7.30
Cond.	(umhos/cm)	18	17	18	18	18	18	17	18	18	19	14	17	15	12	15	14	14	14
ORP	mV	110	145	150	150	140	145	145	145	130	125	130	125	120	110	110	120	110	120
Sulphate	(mg/L)	1	1	2	1	< 1	2	2	2	2	1	2	< 1	2	3	1	1	1	2
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	8	8	8	8	9	9	8	9	8	9	8	8	8	7	8	7	7	8
Total P	mg/L																		
TDP	mgP/L																		
Fluoride	mg/L			0.16				0.19				0.16				0.15			
Chloride	mg/L			< 0.2				< 0.2				< 0.2				< 0.2			
TDS	mg/L			< 10				< 10				< 10				21			
Al	mg/L			0.05				0.024				0.033				0.006			
Sb	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L			< 0.001				< 0.001				< 0.001				0.003			
Ba	mg/L			0.004				0.003				0.003				0.002			
Be	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L			< 0.05				< 0.05				< 0.05				< 0.05			
Cd	mg/L			< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L			3.14				2.55				2.37				1.59			
Cr	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Cu	mg/L			< 0.001				< 0.001				< 0.001				0.001			
Fe	mg/L			< 0.05				< 0.05				< 0.05				< 0.05			
Pb	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L			< 0.005				< 0.001				< 0.001				0.009			
Mg	mg/L			0.06				< 0.05				< 0.05				< 0.05			
Mn	mg/L			< 0.001				< 0.001				< 0.001				0.001			
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L			0.0006				< 0.0005				< 0.0005				< 0.0005			
Ni	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
P	mg/L			< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L			0.4				0.3				0.3				0.3			
Se	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L			0.3				< 0.25				< 0.25				< 0.25			
Ag	mg/L			< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L			< 0.05				< 0.05				< 0.05				< 0.05			
Sr	mg/L			0.005				0.003				0.004				0.002			
Te	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L			< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L			< 0.001				< 0.001				< 0.001				0.003			
Zn	mg/L			< 0.005				< 0.005				< 0.005				< 0.005			
Zr	mg/L			< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171
Date		27-Nov-07	4-Dec-07	########	########	########	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	########	########	########	4-Mar-08	########	########	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		485	485	480	470	485	475	490	480	480	485	495	485	495	490	490	490	495	485
pH	Effluent (units)	7.15	7.12	7.28	7.25	7.24	7.26	7.29	7.25	7.22	7.23	7.17	7.22	7.24	7.23	7.20	7.21	7.26	7.30
Cond.	(umhos/cm)	14	13	16	15	15	15	15	15	15	16	14	15	15	15	15	14	15	14
ORP	mV	115	115	110	120	110	120	115	110	115	115	115	115	115	115	120	120	125	170
Sulphate	(mg/L)	1	1	< 1	2	2	1	2	2	3	1	2	2	1	2	1	1	1	1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	7	7	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7
Total P	mg/L																	0.17	
TDP	mgP/L																	< 0.02	
Fluoride	mg/L	0.16				0.16				0.17				0.16				0.16	
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				0.24	
TDS	mg/L	30				< 10				11				11				12	CCME DL
Al	mg/L	0.035				0.032				0.038				0.023				0.02	0.023
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0004
As	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Ba	mg/L	0.004				0.003				0.003				0.003				0.003	0.0033
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
B	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.00004
Ca	mg/L	2.96				2.69				2.69				2.85				2.68	2.72
Cr	mg/L	< 0.001				< 0.001				< 0.001				0.001				< 0.001	< 0.0002
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Cu	mg/L	0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0018
Fe	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Li	mg/L	< 0.001				< 0.001				0.003				< 0.001				< 0.001	0.0005
Mg	mg/L	0.06				0.05				0.06				0.05				< 0.05	0.06
Mn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0003
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	0.0005
Ni	mg/L	0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15	< 0.03
K	mg/L	0.4				0.2				0.3				0.3				0.3	0.3
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Si	mg/L	0.3				< 0.25				< 0.25				1.9				< 0.25	0.22
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025	< 0.00005
Na	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	0.05
Sr	mg/L	0.005				0.004				0.004				0.004				0.003	0.0037
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.00002
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	0.0002
V	mg/L	< 0.001				< 0.001				< 0.001				0.003				< 0.001	< 0.0002
Zn	mg/L	< 0.005				< 0.005				< 0.005				< 0.005				< 0.005	0.001
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.002

Weeks	#	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189
Date		1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		495	490	490	495	480	475	500	490	490	490	490	495	495	490	490	470	500	490
pH	Effluent (units)	7.26	7.27	7.28	7.39	7.20	7.17	7.28	7.30	7.22	7.27	7.24	7.22	7.16	7.19	7.33	7.19	7.20	7.22
Cond.	(umhos/cm)	14	13	14	13	14	13	12	15	15	13	16	15	16	15	15	15	15	15
ORP	mV	100	115	130	140	100	150	170	150	170	170	150	165	170	160	140	160	160	145
Sulphate	(mg/L)	1	2	1	1	1	2	< 1	< 1	3	< 1	1	1	< 1	2	2	1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	7	7	8	7	8	6	7	7	7	7	7	6	6	7	6	6	6	6
Total P	mg/L			0.13				0.03				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02
TDP	mgP/L			< 0.02				< 0.02				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02
Fluoride	mg/L			0.15				0.17				0.12				0.11	0.15	0.16	0.08
Chloride	mg/L			0.22				< 0.2				0.49				0.64	0.5	0.35	0.41
TDS	mg/L			< 10	CCME DL			12	CCME DL			< 10	CCME DL			< 10	< 10	18	< 10
Al	mg/L			0.027	0.02			0.028	0.028			0.038	0.02			0.03	0.026	0.019	0.025
Sb	mg/L			< 0.001	0.0004			< 0.001	0.0004			< 0.001	0.0004			0.0004	0.0004	0.0004	0.0004
As	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Ba	mg/L			0.003	0.0028			0.003	0.0029			0.003	0.0031			0.0031	0.0032	0.003	0.003
Be	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Bi	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
B	mg/L			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01
Cd	mg/L			< 0.0002	< 0.00004			< 0.0002	0.00008			< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004
Ca	mg/L			2.69	2.43			2.49	2.61			2.5	2.5			2.67	2.35	2.4	2.4
Cr	mg/L			< 0.001	< 0.0002			< 0.001	0.0003			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Co	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Cu	mg/L			< 0.001	0.0003			0.001	0.0007			< 0.001	0.0006			0.0027	0.0007	0.0004	0.0005
Fe	mg/L			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01
Pb	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Li	mg/L			0.001	0.0003			< 0.001	0.0005			< 0.001	< 0.0002			0.0006	0.0002	< 0.0002	0.0003
Mg	mg/L			< 0.05	0.05			0.06	0.07			0.05	0.05			0.06	0.04	0.04	0.05
Mn	mg/L			< 0.001	< 0.0002			< 0.001	0.0005			< 0.001	0.0003			0.0004	0.0004	0.0002	< 0.0002
Hg	ug/L			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02
Mo	mg/L			< 0.0005	0.0004			< 0.0005	0.0004			< 0.0005	0.0004			0.0004	0.0003	0.0004	0.0003
Ni	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	0.0003	< 0.0002	< 0.0002
P	mg/L			< 0.15	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03			< 0.03	< 0.03	< 0.03	< 0.03
K	mg/L			0.3	0.24			0.3	0.28			0.3	0.29			0.3	0.26	0.27	0.26
Se	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Si	mg/L			0.3	0.23			0.3	0.26			< 0.25	0.23			0.21	0.18	0.21	0.24
Ag	mg/L			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005
Na	mg/L			< 0.05	0.03			< 0.05	0.03			< 0.05	0.04			0.04	0.03	0.04	0.03
Sr	mg/L			0.004	0.0034			0.003	0.0034			0.004	0.0034			0.0035	0.0031	0.003	0.0031
Te	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Tl	mg/L			< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002
Th	mg/L			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sn	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Ti	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
U	mg/L			< 0.0005	0.0002			< 0.0005	0.0002			< 0.0005	0.0002			0.0002	0.0002	0.0002	0.0001
V	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Zn	mg/L			< 0.005	< 0.001			< 0.005	0.002			< 0.005	< 0.001			0.001	< 0.001	0.002	< 0.001
Zr	mg/L			< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002

Weeks	#	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Date		5-Aug-08	########	########	########	2-Sep-08	9-Sep-08	########	########	########	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		485	485	490	490	490	485	495	485	495	490	480	495	495	500	490	505	485	495
pH	Effluent (units)	7.18	7.17	7.22	7.17	7.07	7.14	7.11	7.17	7.03	7.10	7.18	7.16	7.09	7.13	6.99	7.08	7.00	7.20
Cond.	(umhos/cm)	15	14	15	15	15	10	13	14	12	10	14	12	12	12	14	14	14	13
ORP	mV	145	170	130	140	150	145	140	130	140	140	140	135	125	140	160	140	130	160
Sulphate	(mg/L)	1	1	3	1	1	1	1	2	1	< 1	3	< 1	3	2	< 1	2	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1
Alkalinity	(mg CaCO3/L)	7	6	6	6	5	6	7	6	5	6	6	6	6	6	6	6	6	7
Total P	mg/L	0.03				0.02				< 0.02				0.11				< 0.02	< 0.02
TDP	mgP/L	0.02				0.02				< 0.02				< 0.02				< 0.02	< 0.02
Fluoride	mg/L	0.13				0.13				0.12				0.11				0.15	0.15
Chloride	mg/L	0.66				0.57				0.87				0.21				< 0.2	< 0.2
TDS	mg/L	< 10				< 10				< 10				< 10				< 10	24
Al	mg/L	0.022				0.021				0.015				0.022				0.019	0.015
Sb	mg/L	0.0004				0.0004				0.0004				0.0004				0.0003	0.0004
As	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ba	mg/L	0.0032				0.0032				0.0054				0.0036				0.0045	0.0037
Be	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Bi	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
B	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Cd	mg/L	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004	< 0.00004
Ca	mg/L	2.48				2.74				2.32				2.3				2.08	2.2
Cr	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Co	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Cu	mg/L	0.0009				0.0006				0.0017				0.0025				0.0048	0.0018
Fe	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Pb	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Li	mg/L	0.0003				< 0.0002				0.0002				0.0003				< 0.0002	0.0004
Mg	mg/L	0.05				0.04				0.04				0.05				0.04	0.04
Mn	mg/L	0.0004				0.0004				0.0005				0.0004				0.0005	0.0002
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L	0.0003				0.0003				0.0003				0.0003				0.0003	0.0003
Ni	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
P	mg/L	< 0.03				< 0.03				< 0.03				< 0.03				< 0.03	< 0.03
K	mg/L	0.29				0.28				0.24				0.26				0.26	0.27
Se	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Si	mg/L	0.22				0.22				0.18				0.23				0.18	0.23
Ag	mg/L	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005	< 0.00005
Na	mg/L	0.03				0.03				0.02				0.03				0.03	0.04
Sr	mg/L	0.0031				0.0032				0.0032				0.0032				0.0024	0.0027
Te	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Tl	mg/L	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002	< 0.00002
Th	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Sn	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ti	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
U	mg/L	0.0001				0.0001				0.0001				0.0001				< 0.0001	< 0.0001
V	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Zn	mg/L	< 0.001				0.003				0.001				< 0.001				0.001	< 0.001
Zr	mg/L	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002	< 0.002

Humidity Cell Sample Data

HC 15 - Granite
04-ARD-121-006
04-ARD-121-007
04-ARD-121-008

S-Total:	0.02	%
S²⁻:	0.02	%
NP:	2.83	t $CaCO_3$/1000 t
CaNP:	0.45	t $CaCO_3$/1000 t
AP:	0.60	t $CaCO_3$/1000 t

Weeks	#	0	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	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05	7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05	30-Aug-05	6-Sep-05	13-Sep-05	20-Sep-05	27-Sep-05
Leachate Volume Added (mL)		560	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375
Leachate Volume Recovered (mL)		225	360	365	340	390	350	380	350	365	370	390	375	370	370	370	365	375	355	360	380	385	360	355	380	375	385	390	380	365	380	375	360	380	360	360	360	370	370	375	365	385	390
pH	Effluent (units)	7.65	7.86	7.16	7.01	7.96	7.76	7.38	7.77	6.90	6.85	7.20	7.25	7.50	7.56	7.63	7.53	7.57	7.44	8.10	7.81	7.63	7.81	7.79	7.54	7.43	6.83	7.17	6.90	7.32	6.52	6.17	6.87	6.07	6.72	7.15	7.19	6.43	6.30	6.38	6.67	6.82	6.88
Cond.	(umhos/cm)	36	44	30	21	20	15	14	12	10	14	11	12	12	11	10	9	7	8	8	8	9	8	7	8	7	7	7	7	7	6	8	7	6	8	8	6	6	7	6	6	5	7
ORP	mV	280	150	160	105	130	150	115	155	115	180	220	170	150	135	145	155	140	150	110	150	100	100	100	140	120	150	130	115	125	175	180	100	175	120	100	170	140	135	160	160	140	155
Sulphate	(mg/L)	7	8	2	3	3	1	1	< 1	2	2	2	2	< 1	1	1	1	1	< 1	2	2	< 1	2	1	1	2	< 1	< 1	2	1	2	2	1	< 1	1	3	1	1	1	1	2	1
Acidity	(mg $CaCO_3$/L)	2	2	2	3	1	3	2	2	3	1	1	1	1	1	1	2	2	1	< 1	< 1	2	1	1	2	< 1	1	1	1	1	3	3	1	4	1	2	3	2	3	1	2	1
Alkalinity	(mg $CaCO_3$/L)	4	7	6	5	4	4	4	3	2	3	2	2	2	1	2	2	2	2	2	2	2	2	2	2	< 1	< 1	1	< 1	< 1	2	1	< 1	< 1	1	2	1	1	1	1	1	2
Al	mg/L	0.051		0.1		0.029		0.024		0.02		0.013		0.011		0.007		0.017		0.023		0.025		0.015		0.024		0.019		0.017		0.023		0.014		0.016		0.019		0.02		
Sb	mg/L	0.001		0.002		0.0015		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
As	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
Ba	mg/L	0.003		0.003		0.0018		0.002		0.001		0.002		0.002		0.002		0.001		0.001		0.002		0.002		0.001		0.001		0.001		0.001		0.001		0.001		0.001		0.001		
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		
Ca	mg/L	1.17		1.4		0.83		0.69		0.46		0.54		0.59		0.54		0.52		0.47		0.47		0.49		0.45		0.41		0.38		0.42		0.32		0.45		0.35		0.35		
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
Li	mg/L	0.001		0.001		0.0011		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
Mg	mg/L	0.27		0.41		0.26		0.22		0.15		0.17		0.2		0.18		0.17		0.17		0.19		0.17		0.17		0.15		0.16		0.17		0.11		0.16		0.13		0.11		
Mn	mg/L	0.003		0.012		0.0073		0.011		0.006		0.007		0.009		0.01		0.009		0.008		0.009		0.01		0.009		0.008		0.006		0.008		0.006		0.009		0.007		0.006		
Hg	mg/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		
Mo	mg/L	0.001		0.0015		0.0009		0.0006		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		
K	mg/L	2.4		1.6		1.2		0.9		0.7		0.7		0.8		0.5		0.7		0.5		0.4		0.4		0.4		0.5		0.5		0.4		0.3		0.3		0.3		0.4		
Se	ug/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
SiO_2	mg/L	1.2		2.3		1.75		1.4		1.2		1.3		1.8		1.7		1.6		1.3		1.6		1.3		1.7		1.9		1.8		1.6		1.7		1.4		0.9		1.2		1.1	
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		
Na	mg/L	3		2.72		1.16		0.7		0.38		0.35		0.29		0.23		< 0.05		0.21		0.19		0.17		0.17		0.15		0.20		0.13		0.11		0.15		< 0.05		0.08		
Sr	mg/L	0.015		0.018		0.011		0.009		0.006		0.007		0.008		0.007		0.006		0.006		0.006		0.006		0.005		0.005		0.005		0.005		0.004		0.005		0.005		0.004		
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
Ti	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		
V	mg/L	< 0.001		0.001		0.0009		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		
Zn	mg/L	0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		

Humidity Cell Sample Data

HC 16 - Granite
04-ARD-139-001
04-ARD-139-002
04-ARD-139-003

S-Total:	0.10	%
S^{2-}:	0.10	%
NP:	4.27	t $CaCO_3$/1000 t
CaNP:	0.45	t $CaCO_3$/1000 t
AP:	3.22	t $CaCO_3$/1000 t

Weeks	#	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		540	465	390	450	405	465	380	475	455	380	440	360	435	420	440	470	375	425	385	370	350	445	435	475	430
pH	Effluent (units)	4.89	5.34	5.17	5.07	6.22	5.11	5.65	6.17	6.13	4.78	4.70	4.51	4.37	4.39	4.08	4.01	4.06	3.74	4.11	3.97	4.03	3.87	3.72	3.35	3.77
Cond.	(umhos/cm)	453	381	214	158	113	104	94	117	113	108	124	112	130	149	165	144	130	166	158	142	180	204	147	173	157
ORP	mV	270	205	205	185	180	220	150	220	210	260	300	240	300	240	255	250	255	280	240	270	245	280	245	250	260
Sulphate	(mg/L)	195	149	87	62	37	43	32	48	46	38	47	41	47	51	56	59	54	67	69	72	68	67	70	62	73
Acidity	(mg CaCO3/L)	10	9	4	4	7	4	3	4	3	3	6	4	7	8	6	16	6	16	18	9	15	10	11	10	10
Alkalinity	(mg CaCO3/L)	2	2	2	1	1	1	1	1	1	< 1	< 1	< 1													
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L																									
Chloride	mg/L																									
TDS	mg/L																									
Al	mg/L	0.13		0.12		0.044		0.041		0.054		0.088		0.14		0.13		0.17		0.24		0.3		0.39		0.44
Sb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
As	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001
Ba	mg/L	0.058		0.031		0.022		0.035		0.016		0.017		0.018		0.018		0.013		0.014		0.013		0.014		0.012
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		0.002		0.002		0.002
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Cd	mg/L	0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		0.0003		< 0.0002		< 0.0002
Ca	mg/L	43.8		20		7.62		6.02		6.95		9.14		9.39		11.9		11.2		12.6		12.9		13.2		13.0
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	0.01		0.005		0.0024		0.002		0.003		0.004		0.004		0.006		0.006		0.007		0.009		0.01		0.012
Cu	mg/L	0.003		< 0.001		< 0.001		< 0.001		< 0.001		0.001		0.001		0.001		< 0.001		0.003		0.003		0.003		0.004
Fe	mg/L	1.6		0.28		< 0.05		< 0.05		< 0.05		0.06		< 0.05		< 0.05		< 0.05		< 0.05		0.12		0.06		< 0.05
Pb	mg/L	0.011		0.006		0.0029		0.004		0.003		0.006		0.005		0.007		0.006		0.008		0.007		0.006		0.008
Li	mg/L	0.074		0.065		0.032		0.022		0.022		0.025		0.028		0.029		0.026		0.03		0.041		0.048		0.046
Mg	mg/L	16		8.33		3.43		2.89		3.54		4.63		4.62		5.75		5.16		6.62		7.47		7.62		8.26
Mn	mg/L	0.69		0.45		0.193		0.16		0.2		0.26		0.25		0.32		0.29		0.31		0.37		0.37		0.35
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Ni	mg/L	0.033		0.02		0.0092		0.009		0.01		0.016		0.015		0.022		0.021		0.024		0.031		0.034		0.037
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	mg/L	9.6		6.2		3.93		3.2		3.1		3.7		4.3		4.1		3.6		3.5		4.8		3.9		3.8
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Si	mg/L	2.9		5.3		3.93		2.5		4.1		4.1		4.1		6.2		2.8		2.9		2.0		7.7		5.7
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	3.56		2.28		0.68		0.5		0.35		0.44		0.33		0.26		< 0.05		0.28		0.32		0.27		0.31
Sr	mg/L	0.29		0.15		0.07		0.059		0.065		0.085		0.085		0.11		0.1		0.12		0.12		0.12		0.12
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		0.0005		0.0007		0.0008		0.0009
V	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Zn	mg/L	0.16		0.11		0.056		0.055		0.06		0.091		0.086		0.11		0.12		0.16		0.21		0.22		0.23
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01

Weeks	#	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Date		7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05	30-Aug-05	6-Sep-05	13-Sep-05	20-Sep-05	27-Sep-05	4-Oct-05	11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		370	360	390	380	400	465	500	520	475	420	485	500	475	475	465	460	490	435	465	495	440	440	470	460	490
pH	Effluent (units)	3.84	3.72	3.79	3.43	3.83	3.33	3.53	3.55	3.65	3.43	3.39	3.21	3.54	4.06	3.86	3.93	3.99	4.09	4.14	4.10	4.19	3.95	4.02	4.04	4.26
Cond.	(umhos/cm)	162	156	170	167	175	239	150	154	160	171	172	158	180	142	134	129	120	118	115	103	93	100	100	109	100
ORP	mV	275	275	140	270	295	340	265	320	290	270	280	285	310	320	320	285	300	260	320	315	305	260	280	290	300
Sulphate	(mg/L)	55	70	62	77	66	83	53	54	59	41	55	52	53	43	38	44	39	39	39	37	29	37	37	33	33
Acidity	(mg CaCO3/L)	10	9	11	13	11	14	11	13	15	15	16	14	12	11	9	11	10	8	8	8	8	8	9	11	9
Alkalinity	(mg CaCO3/L)																									
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L																		0.18				0.20			
Chloride	mg/L																		0.50				0.3			
TDS	mg/L																		134				53			
Al	mg/L		0.42		0.56		0.79		0.38		0.40		0.45		0.40				0.34				0.37			
Sb	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
As	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Ba	mg/L		0.01		0.008		0.011		0.017		0.012		0.011		0.013				0.009				0.014			
Be	mg/L		0.002		0.003		0.002		0.001		0.001		0.001		0.001				< 0.001				< 0.001			
Bi	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
B	mg/L		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05			
Cd	mg/L		< 0.0002		0.0004		0.0003		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L		10.7		11.9		12.0		6.88		6.16		6.44		5.31				4.22				4.34			
Cr	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Co	mg/L		0.011		0.012		0.017		0.008		0.008		0.008		0.007				0.006				0.007			
Cu	mg/L		0.003		0.003		0.005		0.002		0.002		0.002		0.002				0.004				0.002			
Fe	mg/L		< 0.05		0.05		0.10		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05			
Pb	mg/L		0.006		0.006		0.007		0.004		0.003		0.005		0.004				0.002				0.003			
Li	mg/L		0.033		0.053		0.058		0.029		0.033		0.03		0.024				0.022				0.025			
Mg	mg/L		7.57		8.71		10.8		5.68		5.76		5.86		5.50				4.64				4.99			
Mn	mg/L		0.33		0.29		0.39		0.19		0.17		0.18		0.15				0.11				0.12			
Hg	ug/L		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02				< 0.02				< 0.02			
Mo	mg/L		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005			
Ni	mg/L		0.037		0.038		0.05		0.024		0.024		0.023		0.022				0.016				0.018			
P	mg/L		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15				< 0.15				< 0.15			
K	mg/L		4.1		3.8		3.9		2.6		2.2		2.3		2.2				1.7				1.9			
Se	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Si	mg/L		2.1		4.7		13.6		8.4		6.6		8.1		8.4				6.2				3.4			
Ag	mg/L		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025				< 0.00025			
Na	mg/L		0.32		0.29		0.26		0.16		0.16		< 0.05		0.16				< 0.05				0.11			
Sr	mg/L		0.1		0.11		0.11		0.069		0.062		0.063		0.051				0.043				0.044			
Te	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Tl	mg/L		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001				< 0.0001			
Th	mg/L		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Ti	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
U	mg/L		0.001		0.001		0.0016		0.0006		0.0005		0.0007		< 0.0005				< 0.0005				< 0.0005			
V	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Zn	mg/L		0.21		0.19		0.25		0.16		0.14		0.15		0.14				0.11				0.11			
Zr	mg/L		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01				< 0.01			

Weeks	#	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
Date		29-Nov-05	6-Dec-05	########	########	########	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	########	########	########	7-Mar-06	########	########	########	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		480	510	425	495	400	495	385	490	490	410	430	445	445	455	450	450	455	385	395	475	461	405	480	480	490
pH	Effluent (units)	4.14	4.14	4.10	4.18	4.09	4.17	4.06	4.21	4.19	3.92	4.24	4.30	4.04	4.16	4.41	4.16	4.14	4.49	4.57	4.28	4.47	4.38	4.34	4.38	4.41
Cond.	(umhos/cm)	101	92	75	83	79	71	82	72	75	80	81	92	85	70	80	79	66	60	69	62	61	54	59	57	52
ORP	mV	300	300	345	310	270	340	340	290	260	250	290	335	250	325	300	290	240	260	255	305	270	265	260	270	120
Sulphate	(mg/L)	33	32	28	30	25	26	26	29	36	25	27	27	28	25	23	23	24	16	23	22	24	17	20	19	17
Acidity	(mg CaCO3/L)	9	5	7	9	11	8	8	7	17	6	3	6	9	9	8	4	7	5	6	7	6	6	7	6	5
Alkalinity	(mg CaCO3/L)																			< 1						
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L	0.16				0.10				0.10				0.14				<0.10				0.14				0.13
Chloride	mg/L	0.221				<0.2				<0.2				0.4				0.3				0.3				0.31
TDS	mg/L	55				52				53				<5				48				42				14
Al	mg/L	0.26				0.19				0.21				0.20				0.23				0.26				0.18
Sb	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
As	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Ba	mg/L	0.012				0.012				0.010				0.010				0.01				0.009				0.01
Be	mg/L	0.0007				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Bi	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
B	mg/L	0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				<0.05
Cd	mg/L	0.00012				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				<0.0002
Ca	mg/L	3.21				2.39				2.25				2.17				2				1.76				1.39
Cr	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Co	mg/L	0.0048				0.004				0.004				0.004				0.004				0.004				0.003
Cu	mg/L	0.0014				0.002				0.007				0.005				0.001				< 0.001				0.004
Fe	mg/L	< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				<0.05
Pb	mg/L	0.0024				0.002				0.002				0.002				0.002				0.001				<0.001
Li	mg/L	0.018				0.016				0.014				0.014				0.015				0.016				0.012
Mg	mg/L	3.79				3.19				3.06				3.02				3.21				3.32				2.41
Mn	mg/L	0.09				0.07				0.06				0.06				0.058				0.05				0.04
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				<0.02
Mo	mg/L	< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005
Ni	mg/L	0.014				0.01				0.01				0.01				0.01				0.009				0.007
P	mg/L	< 0.03				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				<0.15
K	mg/L	1.5				1.2				1.2				1.3				1.2				1.1				1.1
Se	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Si	mg/L	3.4				2.1				2.5				2.3				2.7				3.1				2.4
Ag	mg/L	< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				<0.00025
Na	mg/L	0.13				< 0.05				0.14				0.29				0.12				0.12				<0.05
Sr	mg/L	0.031				0.025				0.022				0.022				0.021				0.018				0.014
Te	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Tl	mg/L	< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				<0.0001
Th	mg/L	< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005
Sn	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Ti	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
U	mg/L	0.0003				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005
V	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Zn	mg/L	0.10				0.05				0.06				0.06				0.06				0.05				0.045
Zr	mg/L	< 0.002				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				<0.01

Weeks	#	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
Date		########	########	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	########	########	########	5-Sep-06	########	########	########	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	460	470	485	485	505	500	385	465	445	490	475	475	490	460	355	505	390	440	455	435	425	430	490	490
pH	Effluent (units)	4.38	4.38	4.37	4.42	4.40	4.36	4.46	4.46	4.34	4.32	4.35	4.31	4.30	4.27	4.34	4.26	4.30	4.35	4.35	4.34	4.37	4.45	4.48	4.46	4.50
Cond.	(umhos/cm)	48	38	56	57	45	43	39	47	53	53	57	56	57	55	55	57	50	42	41	49	44	46	42	42	39
ORP	mV	140	200	250	265	280	280	280	275	285	290	300	295	300	295	285	315	295	310	280	290	270	260	270	280	265
Sulphate	(mg/L)	17	16	18	17	15	16	14	17	21	20	20	32	20	19	19	30	16	17	16	17	15	16	16	18	13
Acidity	(mg CaCO3/L)	5	5	6	6	6	6	5	5	5	5	5	6	5	6	6	6	5	4	5	5	5	5	5	5	4
Alkalinity	(mg CaCO3/L)																									
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L				0.11				0.12				0.13				0.12				0.121				<0.1	
Chloride	mg/L				0.47				<0.2				<0.2				<0.2				0.40				0.37	
TDS	mg/L				63				46				43				2				25				55	
Al	mg/L				0.160				0.18				0.18				0.24				0.14				0.13	
Sb	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
As	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Ba	mg/L				0.01				0.013				0.017				0.015				0.011				0.009	
Be	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Bi	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
B	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Cd	mg/L				< 0.0002				<0.0002				<0.0002				< 0.0002				< 0.0002				<0.0002	
Ca	mg/L				1.27				1.33				1.52				1.41				1.15				1	
Cr	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Co	mg/L				0.003				0.003				0.003				0.004				0.003				0.002	
Cu	mg/L				< 0.001				0.001				0.001				< 0.001				< 0.001				0.007	
Fe	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				0.05	
Pb	mg/L				0.001				0.001				0.002				0.001				< 0.001				<0.001	
Li	mg/L				0.011				0.013				0.012				0.014				0.009				0.009	
Mg	mg/L				2.04				2.19				2.43				2.99				2				1.94	
Mn	mg/L				0.04				0.04				0.042				0.048				0.032				0.032	
Hg	ug/L				< 0.02				<0.02				<0.02				< 0.02				< 0.02				<0.02	
Mo	mg/L				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005	
Ni	mg/L				0.006				0.007				0.007				0.008				0.006				0.005	
P	mg/L				< 0.15				<0.15				<0.15				< 0.15				< 0.15				<0.15	
K	mg/L				0.9				1.6				1.5				1.5				0.9				1.1	
Se	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Si	mg/L				2.4				0.7				2.4				0.9				1.6				2	
Ag	mg/L				< 0.00025				<0.00025				<0.00025				< 0.00025				< 0.00025				<0.00025	
Na	mg/L				< 0.05				0.08				0.09				0.05				< 0.05				0.05	
Sr	mg/L				0.014				0.013				0.016				0.033				0.012				0.011	
Te	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Tl	mg/L				< 0.0001				<0.0001				<0.0001				< 0.0001				< 0.0001				<0.0001	
Th	mg/L				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005	
Sn	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Ti	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
U	mg/L				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005	
V	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Zn	mg/L				0.043				0.049				0.047				0.056				0.037				0.032	
Zr	mg/L				< 0.01				<0.01				<0.01				< 0.01				< 0.01				<0.01	

Humidity Cell Sample Data

HC 16 - Granite

04-ARD-139-001

04-ARD-139-002

04-ARD-139-003

Weeks	#	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Date		14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	########	########	########	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	########	########	########	6-Mar-07	########	########	########	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		460	450	445	450	450	460	445	405	400	410	470	460	470	440	465	450	495	495	445	480	500	505	440	445	455	460	435	440	430	495	490	450	460	470	495	475
pH	Effluent (units)	4.49	4.50	4.49	4.50	4.51	4.53	4.58	4.58	4.52	4.57	4.54	4.57	4.54	4.61	4.58	4.71	4.58	4.61	4.64	4.61	4.62	4.63	4.60	4.56	4.63	4.59	4.58	4.62	4.60	4.60	4.71	4.57	4.65	4.62	4.60	4.63
Cond.	(umhos/cm)	39	36	36	33	33	31	25	27	31	33	30	31	29	29	29	33	29	29	27	28	25	24	27	23	26	23	27	25	26	27	31	26	25	25	27	26
ORP	mV	280	280	280	260	265	250	245	255	240	235	255	255	250	255	255	230	230	260	235	240	230	230	220	245	255	260	250	250	250	250	240	250	245	240	240	250
Sulphate	(mg/L)	11	11	16	9	9	10	7	9	12	10	11	11	10	11	7	9	9	8	7	7	9	7	8	7	7	6	7	7	7	7	7	8	7	6	6	7
Acidity	(mg CaCO3/L)	5	4	5	4	4	4	4	4	3	5	5	3	3	3	4	3	3	3	2	4	4	3	3	3	4	3	3	3	4	4	4	3	3	3	3	3
Alkalinity	(mg CaCO3/L)					1		< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1
Total P	mg/L																																				
TDP	mgP/L																																				

Weeks	#	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171
Date		24-Jul-07	31-Jul-07	7-Aug-07	########	########	########	4-Sep-07	########	########	########	2-Oct-07	9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	########	########	########	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	########	########	########	4-Mar-08	########	########	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		480	475	480	450	460	470	485	460	465	440	465	480	465	455	450	460	490	490	485	490	500	500	505	485	490	500	490	490	490	480	500	490	490	495	500	490
pH	Effluent (units)	4.61	4.63	4.62	4.58	4.60	4.61	4.65	4.61	4.72	4.64	4.64	4.68	4.73	4.74	4.72	4.68	4.72	4.77	4.76	4.67	4.73	4.80	4.78	4.70	4.72	4.71	4.71	4.74	4.78	4.74	4.72	4.79	4.78	4.79	4.81	4.79
Cond.	(umhos/cm)	23	26	26	29	27	26	26	24	24	27	23	23	20	18	22	19	20	17	17	17	19	17	16	17	16	18	17	17	14	16	16	15	16	15	15	14
ORP	mV	240	280	250	255	245	255	240	230	250	230	250	235	240	220	225	225	220	220	210	255	250	270	250	210	245	235	260	250	270	255	265	260	250	260	255	280
Sulphate	(mg/L)	6	7	7	7	8	7	9	7	7	7	6	6	5	6	6	5	4	5	5	5	6	4	4	4	3	5	4	5	4	5	4	5	4	4	3	5
Acidity	(mg CaCO3/L)	3	4	3	3	4	3	3	3	2	2	2	3	2	2	2	3	3	3	1	2	2	2	3	4	3	2	2	2	3	3	3	2	2	2	2	2
Alkalinity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total P	mg/L																																			0.02	
TDP	mgP/L																																			0.02	

Weeks	#	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Date		1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	########	########	########	2-Sep-08	9-Sep-08	########	########	########	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		495	490	495	490	490	455	505	490	500	485	490	495	500	495	490	490	495	485	485	480	495	490	495	485	495	480	500	495	500	490	500	500	500	495	490	495
pH	Effluent (units)	4.80	4.82	4.83	4.76	4.87	4.82	4.79	4.83	4.84	4.90	4.86	4.87	4.83	4.92	4.86	5.08	4.88	5.07	4.88	4.88	4.82	4.92	4.88	4.91	4.85	4.92	4.89	4.95	4.99	5.05	4.97	5.02	5.05	5.05	5.14	4.99
Cond.	(umhos/cm)	12	13	14	14	13	12	13	15	15	11	15	14	14	15	14	14	14	15	14	13	14	12	13	9	12	12	12	10	12	11	11	11	12	12	12	12
ORP	mV	145	140	140	135	145	140	180	155	135	160	140	145	160	140	125	135	140	120	125	150	135	140	135	130	130	120	135	140	135	135	120	120	140	115	110	150
Sulphate	(mg/L)	4	5	6	3	4	3	6	3	4	4	3	3	3	3	2	4	4	4	4	3	4	4	4	3	4	5	3	2	4	3	3	3	3	3	1	< 1
Acidity	(mg CaCO3/L)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1.5	2	2
Alkalinity	(mg CaCO3/L)	1	< 1	1	1	1	1	< 1	1	1	1	1	1	1	1	1	2	1	1	2	2	1	1	1	1	2	2	2	2	2	1	1	2	1	2	2	2
Total P	mg/L			0.02				< 0.02				0.04				< 0.02	< 0.02	0.02	< 0.02	< 0.02				< 0.02				< 0.02				0.05				< 0.02	0.02
TDP	mgP/L			< 0.02				< 0.02				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02

Weeks	#	102	106	110	114	118	122	126	130	134	138	142	146	150	154	158	162	166
Fluoride	mg/L	<0.1	<0.05	0.12	< 0.05	< 0.05	< 0.05	0.07	0.08	0.06	0.08	0.05	0.06	0.09	< 0.05	< 0.05	< 0.05	< 0.05
Chloride	mg/L	0.36	<0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
TDS	mg/L	18	32	< 10	35	25	< 10	13	< 10	30	< 10	< 10	< 10	10	14	26	< 10	21
Al	mg/L	0.11	0.076	0.098	0.076	0.07	0.072	0.076	0.07	0.054	0.07	0.054	0.085	0.055	0.088	0.045	0.046	0.035
Sb	mg/L	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
As	mg/L	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001	< 0.001	< 0.001	< 0.001
Ba	mg/L	0.008	0.0071	0.009	0.007	0.007	0.008	0.0075	0.0072	0.007	0.008	0.007	0.006	0.005	0.005	0.004	0.004	0.004
Be	mg/L	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bi	mg/L	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001
B	mg/L	< 0.05	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cd	mg/L	< 0.0002	< 0.00004	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.00004	< 0.00004	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002	< 0.0002
Ca	mg/L	0.86	0.66	0.83	0.72	0.6	0.72	0.6	0.59	0.5	0.62	0.48	0.46	4.22	0.49	0.38	0.37	0.33
Cr	mg/L	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001
Co	mg/L	0.002	0.0016	0.002	0.002	0.001	0.001	0.0014	0.0015	0.001	0.001	0.001	0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001
Cu	mg/L	0.002	0.0005	0.002	0.001	< 0.001	< 0.001	0.0007	0.0007	0.003	0.002	< 0.001	< 0.001	0.002	0.001	< 0.001	0.001	< 0.001
Fe	mg/L	< 0.05	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.11	< 0.05	< 0.05	< 0.05
Pb	mg/L	< 0.001	0.0005	< 0.001	< 0.001	< 0.001	< 0.001	0.0003	0.0004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Li	mg/L	0.007	0.0055	0.007	0.006	0.006	0.006	0.007	0.005	0.005	0.005	0.005	0.005	0.003	0.002	0.003	0.007	0.003
Mg	mg/L	1.5	1.18	1.48	1.16	1.09	1.09	1.16	1.06	0.81	0.87	0.83	0.81	0.08	0.62	0.58	0.65	0.61
Mn	mg/L	0.025	0.02	0.023	0.02	0.018	0.018	0.017	0.017	0.015	0.015	0.014	0.013	< 0.001	0.012	0.008	0.01	0.01
Hg	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Mo	mg/L	< 0.0005	< 0.0001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0001	< 0.0001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0008	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ni	mg/L	0.004	0.0034	0.004	0.003	0.003	0.003	0.0032	0.003	0.003	0.003	0.002	0.002	< 0.001	0.002	0.002	0.001	0.002
P	mg/L	< 0.15	< 0.03	< 0.15	< 0.15	< 0.15	< 0.15	< 0.03	< 0.03	< 0.15	< 0.15	< 0.15	< 0.15	2.3	< 0.15	< 0.15	< 0.15	< 0.15
K	mg/L	0.8	0.71	0.8	0.7	0.6	0.7	0.64	0.61	0.5	0.6	0.5	0.6	0.5	0.6	0.4	0.4	0.4
Se	mg/L	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Si	mg/L	1.4	1.07	1.4	1.2	1.1	1.1	1.19	1.3	1.1	1.2	1.2	1	8.9	0.9	0.9	0.9	2.6
Ag	mg/L	< 0.00025	< 0.00005	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00005	< 0.00005	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Na	mg/L	< 0.05	0.05	0.06	0.05	0.07	0.08	0.06	0.06	< 0.05	0.06	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sr	mg/L	0.014	0.013	0.009	0.007	0.006	0.007	0.0061	0.0058	0.005	0.005	0.004	0.004	0.007	0.004	0.003	0.004	0.003
Te	mg/L	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tl	mg/L	< 0.0001	< 0.00002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.00002	< 0.00002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001
Th	mg/L	< 0.0005	< 0.0001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0001	< 0.0001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Sn	mg/L	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ti	mg/L	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	0.001	< 0.001	0.004	< 0.001	< 0.001	< 0.001
U	mg/L	< 0.0005	< 0.0001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0001	< 0.0001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	< 0.0005	< 0.0005	< 0.0005	< 0.0005
V	mg/L	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	0.004	< 0.001	< 0.001	< 0.001	0.003
Zn	mg/L	0.029	0.021	0.026	0.022	0.019	0.023	0.022	0.021	0.02	0.026	0.016	0.015	< 0.005	0.014	0.011	0.006	0.01
Zr	mg/L	< 0.01	< 0.002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.002	< 0.002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Weeks	#	170	171	174	175	178	179	182	183	186	187	188	189	190	194	198	202	206	207
Fluoride	mg/L	< 0.05		0.08		< 0.05		< 0.05		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chloride	mg/L	< 0.2		< 0.2		< 0.2		< 0.2		< 0.2	< 0.2	< 0.2	< 0.2	0.3	0.65	< 0.2	< 0.2	< 0.2	< 0.2
TDS	mg/L	14	CCME DL	< 10	CCME DL	< 10	CCME DL	< 10	CCME DL	< 10	< 10	15	< 10	< 10	14	< 10	< 10	15	16
Al	mg/L	0.028	0.027	0.036	0.036	0.041	0.036	0.049	0.034	0.036	0.026	0.026	0.032	0.03	0.028	0.024	0.031	0.023	0.024
Sb	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
As	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Ba	mg/L	0.004	0.004	0.004	0.0038	0.004	0.0038	0.004	0.0035	0.0032	0.0035	0.0035	0.0031	0.0034	0.0032	0.0033	0.0032	0.0027	0.0028
Be	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Bi	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
B	mg/L	< 0.05	< 0.01	< 0.05	< 0.01	< 0.05	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cd	mg/L	< 0.0002	< 0.00004	< 0.0002	< 0.00004	< 0.0002	< 0.00004	< 0.0002	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Ca	mg/L	0.29	0.33	0.35	0.33	0.31	0.35	0.31	0.31	0.32	0.28	0.29	0.28	0.3	0.29	0.28	0.28	0.25	0.28
Cr	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Co	mg/L	< 0.001	0.0008	< 0.001	0.0008	< 0.001	0.0008	< 0.001	0.0008	0.0007	0.0007	0.0006	0.0006	0.0007	0.0006	0.0006	0.0007	0.0005	0.0005
Cu	mg/L	< 0.001	0.0012	< 0.001	0.0007	< 0.001	0.0008	0.001	0.0016	0.0018	0.0008	0.0005	0.0009	0.0014	0.0014	0.0015	0.0052	0.0064	0.0067
Fe	mg/L	< 0.05	< 0.01	< 0.05	< 0.01	< 0.05	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pb	mg/L	< 0.001	0.0003	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	0.0004	0.0003	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002	< 0.0002	< 0.0002
Li	mg/L	0.003	0.0044	0.004	0.0048	0.003	0.004	0.004	0.0029	0.0041	0.0027	0.0026	0.0035	0.0028	0.0026	0.0023	0.0025	0.0021	0.0023
Mg	mg/L	0.52	0.6	0.54	0.63	0.62	0.56	0.52	0.55	0.56	0.41	0.45	0.49	0.48	0.44	0.35	0.49	0.33	0.37
Mn	mg/L	0.009	0.0091	0.009	0.0087	0.009	0.0087	0.008	0.0081	0.0082	0.0071	0.0069	0.0073	0.0073	0.0071	0.0066	0.0071	0.0069	0.0064
Hg	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Mo	mg/L	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ni	mg/L	0.001	0.0015	0.001	0.0014	0.002	0.0014	0.001	0.0013	0.0014	0.0013	0.0013	0.0012	0.0013	0.0012	0.0012	0.0012	0.0011	0.0011
P	mg/L	< 0.15	< 0.03	< 0.15	< 0.03	< 0.15	< 0.03	< 0.15	< 0.03	< 0.03	< 0.03	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
K	mg/L	0.4	0.36	0.3	0.32	0.4	0.34	0.3	0.34	0.33	0.3	0.3	0.3	0.33	0.3	0.26	0.29	0.29	0.29
Se	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Si	mg/L	0.7	0.65	0.9	0.94	1	0.93	0.8	0.85	0.99	0.71	0.77	0.92	0.81	0.81	0.66	0.8	0.65	0.77
Ag	mg/L	< 0.00025	< 0.00005	< 0.00025	< 0.00005	< 0.00025	< 0.00005	< 0.00025	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Na	mg/L	< 0.05	0.04	< 0.05	0.03	< 0.05	0.03	< 0.05	0.05	0.06	0.04	0.07	0.04	0.04	0.04	0.03	0.04	0.04	0.04
Sr	mg/L	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.0027	0.0027	0.0025	0.0024	0.0023	0.0025	0.0024	0.0024	0.0024	0.0018	0.002
Te	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Tl	mg/L	< 0.0001	< 0.00002	< 0.0001	< 0.00002	< 0.0001	< 0.00002	< 0.0001	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Th	mg/L	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sn	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Ti	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
U	mg/L	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
V	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Zn	mg/L	0.008	0.008	0.009	0.007	0.01	0.011	0.009	0.013	0.009	0.009	0.011	0.008	0.009	0.009	0.007	0.008	0.007	0.007
Zr	mg/L	< 0.01	< 0.002	< 0.01	< 0.002	< 0.01	< 0.002	< 0.01	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Humidity Cell Sample Data

HC 17 - Granite
04-ARD-168-004
04-ARD-168-005
04-ARD-168-006

S-Total:	0.04	%
S^{2-}:	0.04	%
NP:	2.03	t $CaCO_3$/1000 t
CaNP:	0.61	t $CaCO_3$/1000 t
AP:	1.25	t $CaCO_3$/1000 t

Weeks	#	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		600	380	425	480	495	430	450	430	500	470	405	470	475	440	465	490	490	465	490	490	485	480	485	500	490
pH	Effluent (units)	8.01	7.76	7.22	7.01	7.86	7.02	7.40	7.72	6.90	6.83	7.46	7.43	6.37	7.20	7.57	7.79	7.54	7.12	7.24	7.63	7.48	7.42	8.17	7.45	7.80
Cond.	(umhos/cm)	34	41	30	25	20	10	13	9	14	12	11	10	11	12	11	9	8	8	12	8	10	8	13	10	9
ORP	mV	200	140	120	85	90	100	140	170	110	200	170	110	150	130	130	115	150	180	120	170	100	170	130	110	100
Sulphate	(mg/L)	6	7	3	3	2	< 1	1	< 1	2	1	2	2	1	1	< 1	2	< 1	< 1	3	< 1	< 1	< 1	1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	1	2	2	1	1	1	1	1	1	1	1	2	2	1	2	2	3	3	2	3	2	1	2	< 1
Alkalinity	(mg CaCO3/L)	4	5	7	6	5	2	3	2	3	3	2	2	4	3	3	3	3	3	3	2	2	2	3	2	1
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L																									
Chloride	mg/L																									
TDS	mg/L																									
Al	mg/L	0.07		0.099		0.032		0.02		0.02		0.028		0.022		0.019		0.024		0.022		0.027		0.022		0.028
Sb	mg/L	0.006		0.008		0.0076		0.005		0.004		0.002		0.003		0.002		0.003		0.002		0.002		0.003		0.002
As	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		0.002		< 0.001
Ba	mg/L	0.004		0.003		0.0015		0.001		0.001		0.001		0.001		< 0.001		0.001		< 0.001		0.001		0.001		0.001
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	1.68		1.88		1.16		0.79		0.78		0.68		0.64		0.65		0.71		0.68		0.67		0.74		0.67
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.002		0.002		0.0012		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Mg	mg/L	0.33		0.43		0.27		0.2		0.22		0.17		0.17		0.17		0.19		0.21		0.2		0.21		0.22
Mn	mg/L	0.004		0.022		0.025		0.016		0.016		0.01		0.012		0.013		0.014		0.014		0.014		0.016		0.016
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.0012		0.0013		0.0009		0.0006		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	mg/L	2.1		1.3		0.99		0.7		0.6		0.6		0.7		0.5		0.7		0.4		0.4		0.4		0.4
Se	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Si	mg/L	1.2		2.1		1.85		1.7		1.5		1.1		1		1.5		1.7		1.6		1.9		1.5		1.7
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	3.25		2.12		0.95		0.58		0.47		0.34		0.25		0.22		< 0.05		0.22		0.2		0.18		0.14
Sr	mg/L	0.02		0.02		0.012		0.008		0.009		0.007		0.007		0.007		0.007		0.007		0.007		0.008		0.006
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
V	mg/L	0.001		0.001		0.0011		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01

Weeks	#	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Date		7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05	30-Aug-05	6-Sep-05	13-Sep-05	20-Sep-05	27-Sep-05	4-Oct-05	11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	455	485	485	500	470	465	390	395	385	385	465	400	490	455	430	505	445	475	405	505	445	490	420	410
pH	Effluent (units)	7.15	6.35	6.22	7.30	6.38	5.91	7.01	6.55	5.89	7.07	7.07	5.60	6.73	6.84	6.98	7.04	7.17	6.92	7.41	6.69	7.20	7.42	7.29	7.07	7.11
Cond.	(umhos/cm)	9	7	9	9	9	9	9	6	8	7	6	10	8	8	7	6	9	6	8	6	9	6	9	6	7
ORP	mV	170	210	105	190	235	190	110	200	150	160	160	140	100	225	220	100	115	190	195	210	140	190	140	150	175
Sulphate	(mg/L)	< 1	< 1	2	1	1	1	1	< 1	1	2	1	1	1	1	1	1	2	1	1	1	2	1	< 1	2	2
Acidity	(mg CaCO3/L)	1	2	2	1	4	3	2	4	3	2	1	5	3	2	2	< 1	1	1	< 1	1	1	1	1	2	2
Alkalinity	(mg CaCO3/L)	1	1	1	2	1	2	1	1	1	1	1	2	2	2	2	2	3	2	2	2	2	2	4	1	< 1
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L																		<0.1				<0.1			
Chloride	mg/L																		0.42				0.4			
TDS	mg/L																		41				33			
Al	mg/L		0.019		0.023		0.028		0.032		0.019		0.019		0.016				0.012				0.016			
Sb	mg/L		0.002		0.002		0.002		< 0.001		< 0.001		0.002		0.002				0.001				0.001			
As	mg/L		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Ba	mg/L		0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001				0.001				< 0.001			
Be	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Bi	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
B	mg/L		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05			
Cd	mg/L		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L		0.53		0.60		0.60		0.37		0.47		0.69		0.62				0.45				0.59			
Cr	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Co	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Cu	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Fe	mg/L		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05			
Pb	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Li	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Mg	mg/L		0.18		0.24		0.22		0.11		0.16		0.23		0.22				0.17				0.18			
Mn	mg/L		0.012		0.013		0.014		0.006		0.007		0.012		0.013				0.012				0.013			
Hg	ug/L		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02				< 0.02				< 0.02			
Mo	mg/L		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005			
Ni	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
P	mg/L		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15				< 0.15				< 0.15			
K	mg/L		0.5		0.5		0.3		0.2		0.3		0.3		0.4				0.2				0.3			
Se	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Si	mg/L		1.5		1.8		1.8		0.5		0.7		0.9		1.4				0.8				0.5			
Ag	mg/L		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025				< 0.00025			
Na	mg/L		0.11		0.15		0.11		0.08		0.10		< 0.05		0.08				< 0.05				0.08			
Sr	mg/L		0.005		0.006		0.006		0.004		0.005		0.006		0.006				0.004				0.008			
Te	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Tl	mg/L		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001				< 0.0001			
Th	mg/L		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Ti	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
U	mg/L		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005			
V	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Zn	mg/L		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005				< 0.005				< 0.005			
Zr	mg/L		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01				< 0.01			

Weeks	#	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
Date		29-Nov-05	6-Dec-05	########	########	########	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	########	########	########	7-Mar-06	########	########	########	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		495	520	520	500	420	400	455	405	390	415	395	390	385	390	390	410	405	440	475	495	405	430	395	450	465
pH	Effluent (units)	6.84	6.73	6.81	6.92	7.03	7.15	7.71	7.21	7.28	7.16	7.15	7.42	6.43	6.44	7.61	6.42	6.07	6.90	6.81	6.10	6.62	6.52	6.93	6.58	6.59
Cond.	(umhos/cm)	8	7	8	5	6	9	6	5	6	8	7	8	8	7	5	6	4	5	7	6	4	4	4	5	4
ORP	mV	200	190	150	200	160	215	210	230	220	170	180	225	190	135	240	195	160	120	150	230	215	170	100	190	170
Sulphate	(mg/L)	2	2	2	< 1	1	2	< 1	1	1	1	1	2	2	1	2	< 1	2	1	< 1	1	1	1	1	1	1
Acidity	(mg CaCO3/L)	1	< 1	2	4	4	3	2	3	5	1	1	1	2	1	1	3	2	1	1	3	1	1	1	2	1
Alkalinity	(mg CaCO3/L)	3	2	2	1	1	<	< 1	1	1	2	1	1	2	1	1	1	1	1	2	2	1	2	2	1	1
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L	<0.1				<0.1				0.03				<0.1				<0.1				<0.1				<0.1
Chloride	mg/L	<0.2				1.0				<0.2				0.5				0.3				<0.2				0.3
TDS	mg/L	54				12				5				33				33				8				<1
Al	mg/L	0.014				< 0.005				< 0.005				0.005				0.019				0.021				0.007
Sb	mg/L	0.0017				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
As	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Ba	mg/L	0.0009				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Be	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Bi	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
B	mg/L	< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				<0.05
Cd	mg/L	< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				<0.0002
Ca	mg/L	0.66				0.27				0.35				0.43				0.32				0.28				0.33
Cr	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Co	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Cu	mg/L	0.0008				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Fe	mg/L	< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				<0.05
Pb	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Li	mg/L	0.0004				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Mg	mg/L	0.22				0.11				0.11				0.14				0.14				0.14				0.14
Mn	mg/L	0.013				0.007				0.008				0.010				0.008				0.008				0.01
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				<0.02
Mo	mg/L	< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005
Ni	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
P	mg/L	< 0.03				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				<0.15
K	mg/L	0.3				0.2				0.2				0.4				0.2				0.2				0.2
Se	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Si	mg/L	0.6				1.1				< 0.25				0.3				< 0.25				0.4				0.5
Ag	mg/L	< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				<0.00025
Na	mg/L	0.12				< 0.05				0.10				0.28				0.06				0.06				<0.05
Sr	mg/L	0.005				0.002				0.003				0.004				0.003				0.002				0.003
Te	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Tl	mg/L	< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				<0.0001
Th	mg/L	< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005
Sn	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Ti	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
U	mg/L	< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005
V	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Zn	mg/L	0.002				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				<0.005
Zr	mg/L	< 0.002				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				<0.01

Weeks	#	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98
Date		########	########	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	########	########	########	5-Sep-06	########	########	########	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		400	400	475	390	430	460	480	400	490	490	495	490	480	490	490	450	505	465	500	490	455	500	500	440
pH	Effluent (units)	6.63	6.67	6.65	6.41	6.44	6.52	6.54	6.67	6.60	6.35	6.62	6.68	6.53	6.43	6.66	6.17	6.30	6.45	6.38	6.55	6.43	6.55	6.42	6.46
Cond.	(umhos/cm)	5	3	6	6	4	4	3	3	4	4	4	4	4	4	4	4	4	5	3	6	3	4	4	3
ORP	mV	160	140	150	145	145	140	150	150	135	210	120	250	115	200	120	140	170	150	140	145	145	100	125	120
Sulphate	(mg/L)	2	1	1	1	1	1	1	1	2	1	< 1	2	1	1	1	1	1	1	3	1	1	1	1	1
Acidity	(mg CaCO3/L)	1	1	2	1	1	1	1	2	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1
Alkalinity	(mg CaCO3/L)	1	2	1	1	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	2	2
Total P	mg/L																								
TDP	mgP/L																								
Fluoride	mg/L				<0.1				<0.1				<0.1				<0.1				<0.1				<0.1
Chloride	mg/L				<0.2				<0.2				<0.2				<0.2				<0.2				0.4
TDS	mg/L				13				20				46				2				17				21
Al	mg/L				0.008				0.015				0.014				0.01				0.01				0.01
Sb	mg/L				< 0.001				<0.001				0.001				< 0.001				< 0.001				<0.001
As	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Ba	mg/L				< 0.001				0.003				<0.001				0.001				< 0.001				<0.001
Be	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Bi	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
B	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05
Cd	mg/L				< 0.0002				<0.0002				<0.0002				< 0.0002				< 0.0002				<0.0002
Ca	mg/L				0.24				0.35				0.36				0.30				0.31				0.29
Cr	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Co	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Cu	mg/L				< 0.001				0.012				<0.001				< 0.001				< 0.001				<0.001
Fe	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05
Pb	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Li	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Mg	mg/L				0.09				0.13				0.12				0.15				0.13				0.15
Mn	mg/L				0.008				0.01				0.01				0.012				0.014				0.015
Hg	ug/L				< 0.02				<0.02				0.06				< 0.02				< 0.02				<0.02
Mo	mg/L				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005
Ni	mg/L				< 0.001				0.002				<0.001				< 0.001				< 0.001				<0.001
P	mg/L				< 0.15				<0.15				<0.15				< 0.15				< 0.15				<0.15
K	mg/L				0.2				0.3				0.2				< 0.1				< 0.1				0.1
Se	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Si	mg/L				< 0.25				<0.25				0.4				0.3				< 0.25				0.3
Ag	mg/L				< 0.00025				<0.00025				<0.00025				< 0.00025				< 0.00025				<0.00025
Na	mg/L				< 0.05				<0.05				0.05				< 0.05				< 0.05				<0.05
Sr	mg/L				0.002				0.003				0.003				0.003				0.003				0.002
Te	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Tl	mg/L				< 0.0001				<0.0001				<0.0001				< 0.0001				< 0.0001				<0.0001
Th	mg/L				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005
Sn	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Ti	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				0.001
U	mg/L				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005
V	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001
Zn	mg/L				< 0.005				0.009				<0.005				< 0.005				< 0.005				<0.005
Zr	mg/L				< 0.01				<0.01				<0.01				< 0.01				< 0.01				<0.01

Humidity Cell Sample Data

HC 17 - Granite
04-ARD-168-004
04-ARD-168-005
04-ARD-168-006

Weeks	#	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Date		7-Nov-06	14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	########	########	########	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	########	########	########	6-Mar-07	########	########	########	3-Apr-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	470	465	435	420	440	490	450	405	425	405	505	500	500	460	445	450	490	490	470	480	505
pH	Effluent (units)	6.43	6.36	6.44	6.34	6.13	6.13	6.23	6.24	6.25	6.22	6.39	6.36	6.34	6.24	6.27	6.28	6.34	6.38	6.33	6.30	6.36	6.27
Cond.	(umhos/cm)	4	4	4	3	4	4	4	3	5	3	3	5	3	3	3	4	4	3	3	3	3	3
ORP	mV	115	125	130	125	110	100	100	125	100	105	105	100	95	95	95	105	105	105	100	100	105	105
Sulphate	(mg/L)	1	1	1	1	1	1	1	< 1	< 1	< 1	4	2	< 1	2	1	1	2	2	2	1	2	1
Acidity	(mg CaCO3/L)	1	1	1	1	1	1	1	< 1	1	1	1	1	< 1	1	< 1	1	< 1	1	1	< 1	1	1
Alkalinity	(mg CaCO3/L)	2	3	3	3	3	3	3	2	3	3	3	4	3	3	3	3	2	3	3	3	2	3
Total P	mg/L																						
TDP	mgP/L																						
Fluoride	mg/L				<0.1				<0.05				< 0.05				< 0.05				< 0.05		
Chloride	mg/L				0.3				<0.2				< 0.2				< 0.2				< 0.2		
TDS	mg/L				<10				<10				< 10				< 10				< 10		
Al	mg/L				0.012				0.002				0.006				< 0.005				0.006		
Sb	mg/L				< 0.001				0.0006				< 0.001				< 0.001				< 0.001		
As	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001		
Ba	mg/L				< 0.001				0.0006				0.002				0.002				0.001		
Be	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001		
Bi	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001		
B	mg/L				< 0.05				< 0.01				< 0.05				< 0.05				< 0.05		
Cd	mg/L				< 0.0002				< 0.00004				< 0.0002				< 0.0002				< 0.0002		
Ca	mg/L				0.31				0.24				0.32				0.22				0.22		
Cr	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001		
Co	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001		
Cu	mg/L				0.01				< 0.0002				< 0.001				< 0.001				< 0.001		
Fe	mg/L				< 0.05				< 0.01				< 0.05				< 0.05				< 0.05		
Pb	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001		
Li	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001		
Mg	mg/L				0.11				0.1				0.13				0.08				0.09		
Mn	mg/L				0.017				0.015				0.022				0.014				0.015		
Hg	ug/L				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02		
Mo	mg/L				< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005		
Ni	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001		
P	mg/L				< 0.15				< 0.03				< 0.15				< 0.15				< 0.15		
K	mg/L				0.1				0.11				0.1				0.1				0.1		
Se	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001		
Si	mg/L				< 0.25				0.19				0.3				< 0.25				0.3		
Ag	mg/L				< 0.00025				< 0.00005				< 0.00025				< 0.00025				< 0.00025		
Na	mg/L				< 0.05				0.03				< 0.05				< 0.05				< 0.05		
Sr	mg/L				0.004				0.0022				0.004				0.002				0.002		
Te	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001		
Tl	mg/L				< 0.0001				< 0.00002				< 0.0001				< 0.0001				< 0.0001		
Th	mg/L				< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005		
Sn	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001		
Ti	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001		
U	mg/L				< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005		
V	mg/L				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001		
Zn	mg/L				< 0.005				< 0.001				< 0.005				< 0.005				< 0.005		
Zr	mg/L				< 0.01				< 0.002				< 0.01				< 0.01				< 0.01		

Weeks	#	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142
Date		10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	########	########	########	4-Sep-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		505	500	490	450	465	505	520	480	445	410	465	455	500	445	485	500	500	490	495	470	475	480
pH	Effluent (units)	6.38	6.36	6.15	6.39	6.17	6.24	6.11	6.14	6.00	6.19	6.06	6.22	6.07	6.05	5.82	5.95	5.89	5.84	5.82	5.91	5.82	5.84
Cond.	(umhos/cm)	3	3	3	3	4	3	3	3	4	4	4	4	5	5	6	6	6	6	6	5	6	5
ORP	mV	105	100	100	105	100	100	100	100	100	115	100	100	100	100	105	115	194	165	155	145	155	170
Sulphate	(mg/L)	1	1	3	1	2	1	1	1	1	< 1	1	< 1	1	< 1	< 1	1	1	< 1	1	< 1	1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	1	1	1	1	1	< 1	< 1	1	1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	3	3	2	3	3	2	3	3	3	2	2	2	2	2	2	2	2	1	2	1	1	2
Total P	mg/L																						
TDP	mgP/L																						
Fluoride	mg/L		0.12				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05
Chloride	mg/L		< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2
TDS	mg/L		< 10				< 10				< 10				< 10				< 10				< 10
Al	mg/L		0.006				0.002				0.002				< 0.005				< 0.005				< 0.005
Sb	mg/L		< 0.001				0.0007				0.0003				< 0.001				< 0.001				< 0.001
As	mg/L		< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001
Ba	mg/L		0.003				0.0013				0.0015				0.002				0.002				0.001
Be	mg/L		< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001
Bi	mg/L		< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001
B	mg/L		< 0.05				< 0.01				< 0.01				< 0.05				< 0.05				< 0.05
Cd	mg/L		< 0.0002				< 0.00004				< 0.00004				0.0005				< 0.0002				< 0.0002
Ca	mg/L		0.3				0.21				0.2				0.4				0.39				0.33
Cr	mg/L		< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001
Co	mg/L		< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001
Cu	mg/L		< 0.001				0.0065				0.0009				0.002				0.001				0.001
Fe	mg/L		< 0.05				< 0.01				< 0.01				< 0.05				< 0.05				< 0.05
Pb	mg/L		< 0.001				< 0.0002				0.0003				< 0.001				< 0.001				< 0.001
Li	mg/L		< 0.001				< 0.001				< 0.001				< 0.005				< 0.005				< 0.001
Mg	mg/L		0.13				0.08				0.08				0.15				0.15				0.12
Mn	mg/L		0.015				0.015				0.019				0.028				0.042				0.039
Hg	ug/L		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L		< 0.0005				< 0.0001				< 0.0001				< 0.0005				< 0.0005				< 0.0005
Ni	mg/L		< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001
P	mg/L		< 0.15				< 0.03				< 0.03				< 0.15				< 0.15				< 0.15
K	mg/L		0.2				0.12				0.09				0.2				0.2				0.1
Se	mg/L		< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001
Si	mg/L		< 0.25				0.19				0.13				< 0.25				0.3				< 0.25
Ag	mg/L		< 0.00025				< 0.00005				< 0.00005				0.0005				< 0.00025				< 0.00025
Na	mg/L		0.07				0.04				0.04				0.09				0.05				< 0.05
Sr	mg/L		0.003				0.0019				0.0019				0.004				0.003				0.002
Te	mg/L		< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001
Tl	mg/L		< 0.0001				< 0.00002				< 0.00002				0.0003				< 0.0001				< 0.0001
Th	mg/L		< 0.0005				< 0.0001				< 0.0001				< 0.0005				< 0.0005				< 0.0005
Sn	mg/L		< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001
Ti	mg/L		< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001
U	mg/L		< 0.0005				< 0.0001				< 0.0001				< 0.0005				< 0.0005				< 0.0005
V	mg/L		< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001
Zn	mg/L		< 0.005				0.001				0.001				< 0.005				< 0.005				< 0.005
Zr	mg/L		< 0.01				< 0.002				< 0.002				< 0.01				< 0.01				< 0.01

Weeks	#	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164
Date		########	########	########	2-Oct-07	9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	########	########	########	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		430	490	505	445	465	460	460	455	500	450	485	490	480	470	505	450	440	415	495	445	450	445
pH	Effluent (units)	5.87	5.94	5.93	5.93	5.81	5.73	5.87	5.86	5.84	5.78	5.87	5.73	5.47	5.79	5.80	5.88	6.53	6.05	5.92	6.07	6.03	6.08
Cond.	(umhos/cm)	5	5	5	5	5	5	4	5	5	4	4	5	4	5	5	5	6	4	5	5	6	5
ORP	mV	150	140	155	150	130	130	120	125	125	130	135	140	160	120	130	130	120	120	110	100	110	120
Sulphate	(mg/L)	1	1	1	1	< 1	1	1	1	2	< 1	1	1	1	1	2	1	1	1	1	1	1	2
Acidity	(mg CaCO3/L)	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	1	1	1	1	1	< 1	1	1	1	< 1
Alkalinity	(mg CaCO3/L)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	3	2	2	2	2	2
Total P	mg/L																						
TDP	mgP/L																						
Fluoride	mg/L				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05		
Chloride	mg/L				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2		
TDS	mg/L				< 10				13				< 10				< 10				19		
Al	mg/L				0.008				0.01				0.008				0.006				0.016		
Sb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
As	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Ba	mg/L				0.001				0.002				0.003				0.001				0.001		
Be	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Bi	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
B	mg/L				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05		
Cd	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002		
Ca	mg/L				0.37				0.37				0.46				0.35				0.33		
Cr	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Co	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Cu	mg/L				0.001				0.001				0.001				< 0.001				0.001		
Fe	mg/L				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05		
Pb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Li	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				0.003		
Mg	mg/L				0.13				0.14				0.13				0.11				0.12		
Mn	mg/L				0.04				0.043				0.051				0.032				0.037		
Hg	ug/L				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02		
Mo	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005		
Ni	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
P	mg/L				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15		
K	mg/L				< 0.1				0.1				0.2				0.1				0.1		
Se	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Si	mg/L				< 0.25				< 0.25				0.3				< 0.25				< 0.25		
Ag	mg/L				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025		
Na	mg/L				< 0.05				< 0.05				0.05				< 0.05				< 0.05		
Sr	mg/L				0.003				0.003				0.004				0.003				0.003		
Te	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Tl	mg/L				< 0.0001				< 0.0001				< 0.0001				< 0.0001				0.0001		
Th	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005		
Sn	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Ti	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
U	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005		
V	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Zn	mg/L				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005		
Zr	mg/L				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01		

Weeks	#	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186
Date		########	########	########	4-Mar-08	########	########	########	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		435	470	465	455	460	490	495	490	450	455	480	490	485	480	475	500	490	475	475	490	470	470
pH	Effluent (units)	6.01	5.94	5.93	5.91	5.85	5.65	5.80	5.68	5.79	5.50	5.82	5.67	5.68	5.59	5.55	5.56	5.57	5.70	5.87	5.57	5.65	5.80
Cond.	(umhos/cm)	6	6	6	6	7	6	5	5	5	5	4	4	4	4	5	5	4	5	4	5	5	4
ORP	mV	115	110	120	130	130	120	160	160	140	135	125	120	135	105	140	110	140	140	135	120	120	110
Sulphate	(mg/L)	2	1	1	< 1	1	2	< 1	< 1	1	< 1	< 1	1	< 1	< 1	< 1	2	2	1	1	1	1	1
Acidity	(mg CaCO3/L)	1	< 1	1	1	< 1	1	1	1	1	1	1	1	1	1	1	1	1	< 1	< 1	1	< 1	< 1
Alkalinity	(mg CaCO3/L)	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
Total P	mg/L						< 0.02				0.2				< 0.02				0.03				< 0.02
TDP	mgP/L						-				< 0.02				< 0.02				< 0.02				< 0.02
Fluoride	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05
Chloride	mg/L		< 0.2				< 0.2				< 0.2				< 0.2				0.24				< 0.2
TDS	mg/L		18				16	CCME DL			< 10	CCME DL			< 10	CCME DL			< 10	CCME DL			< 10
Al	mg/L		< 0.005				< 0.005	0.004			< 0.005	0.003			< 0.005	0.003			0.011	0.003			0.003
Sb	mg/L		< 0.001				< 0.001	0.0003			< 0.001	0.0002			< 0.001	0.0003			< 0.001	0.0003			0.0003
As	mg/L		< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002
Ba	mg/L		0.001				0.002	0.0014			0.002	0.0015			0.001	0.0011			0.001	0.0009			0.0009
Be	mg/L		< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002
Bi	mg/L		< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002
B	mg/L		< 0.05				< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01
Cd	mg/L		< 0.0002				< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.00004
Ca	mg/L		0.35				0.39	0.43			0.34	0.31			0.32	0.3			0.25	0.26			0.25
Cr	mg/L		< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002
Co	mg/L		< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002
Cu	mg/L		< 0.001				0.001	0.0018			< 0.001	0.001			0.001	0.0013			0.001	0.0027			0.0038
Fe	mg/L		< 0.05				< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01
Pb	mg/L		< 0.001				< 0.001	0.0008			< 0.001	0.0008			< 0.001	0.0007			< 0.001	0.0007			0.0007
Li	mg/L		< 0.001				< 0.001	0.0003			0.001	0.0005			< 0.001	0.0004			< 0.001	< 0.0002			0.0004
Mg	mg/L		0.15				0.15	0.18			0.12	0.13			0.17	0.12			0.1	0.11			0.1
Mn	mg/L		0.052				0.056	0.058			0.048	0.046			0.042	0.045			0.039	0.039			0.036
Hg	ug/L		< 0.02				< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02
Mo	mg/L		< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001
Ni	mg/L		< 0.001				< 0.001	0.0004			< 0.001	0.0004			< 0.001	0.0004			< 0.001	0.0003			0.0004
P	mg/L		< 0.15				< 0.15	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03			< 0.03
K	mg/L		0.1				0.1	0.12			< 0.1	0.1			0.1	0.09			< 0.1	0.08			0.09
Se	mg/L		< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002
Si	mg/L		1.8				< 0.25	0.24			0.3	0.25			0.3	0.26			< 0.25	0.25			0.24
Ag	mg/L		< 0.00025				< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00005
Na	mg/L		0.05				< 0.05	0.06			< 0.05	0.05			<0.05	0.04			< 0.05	0.06			0.05
Sr	mg/L		0.004				0.004	0.0041			0.003	0.003			0.003	0.0027			0.003	0.0025			0.0023
Te	mg/L		< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002
Tl	mg/L		< 0.0001				< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.00002
Th	mg/L		< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001
Sn	mg/L		< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002
Ti	mg/L		< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	0.0003			< 0.0002
U	mg/L		< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001
V	mg/L		0.002				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002
Zn	mg/L		< 0.005				< 0.005	0.002			< 0.005	0.002			< 0.005	0.003			< 0.005	0.003			0.002
Zr	mg/L		< 0.01				< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002			< 0.002

Weeks	#	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Date		15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	########	########	########	2-Sep-08	9-Sep-08	########	########	########	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		470	485	470	420	455	500	490	495	490	465	485	495	475	470	460	495	500	485	500	485	480
pH	Effluent (units)	5.86	5.63	5.65	5.79	5.69	5.78	5.84	5.69	6.04	6.85	5.82	5.86	5.60	5.86	5.95	5.88	5.93	5.67	5.69	5.87	5.86
Cond.	(umhos/cm)	5	5	4	4	4	4	4	6	3	4	4	4	3	4	4	4	4	4	4	4	4
ORP	mV	100	95	110	115	125	110	110	110	105	105	105	105	110	110	105	105	105	100	120	150	100
Sulphate	(mg/L)	1	< 1	< 1	3	< 1	1	< 1	< 1	< 1	< 1	2	< 1	< 1	2	< 1	2	< 1	1	2	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	1	1	1	1	< 1	< 1	1	1	1	< 1	< 1	1	1	1	1	< 1	1	1	2	2
Alkalinity	(mg CaCO3/L)	2	2	2	3	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2
Total P	mg/L	< 0.02	0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
TDP	mgP/L	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.05
Chloride	mg/L	< 0.2	< 0.2	< 0.2	0.55				< 0.2				< 0.2				< 0.2				< 0.2	< 0.2
TDS	mg/L	< 10	< 10	< 10	< 10				< 10				< 10				< 10				10	11
Al	mg/L	0.002	0.002	0.004	0.009				0.002				0.004				0.003				0.003	0.002
Sb	mg/L	0.0003	0.0003	0.0003	0.0002				0.0003				0.0003				0.0003				0.0002	0.0002
As	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ba	mg/L	0.0011	0.001	0.001	0.0007				0.0008				0.0015				0.0008				0.0008	0.0008
Be	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Bi	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
B	mg/L	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Cd	mg/L	< 0.00004	< 0.00004	< 0.00004	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004	< 0.00004
Ca	mg/L	0.27	0.24	0.25	0.15				0.22				0.24				0.3				0.23	0.23
Cr	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Co	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Cu	mg/L	0.0013	0.0009	0.0011	0.0014				0.0009				0.0038				0.0037				0.0007	0.0044
Fe	mg/L	< 0.01	< 0.01	0.02	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Pb	mg/L	0.0006	0.0007	0.0008	0.0004				0.0006				0.0011				0.0008				0.0007	0.0007
Li	mg/L	< 0.0002	< 0.0002	0.0003	< 0.0002				< 0.0002				< 0.0002				0.0002				< 0.0002	0.0003
Mg	mg/L	0.09	0.09	0.11	0.05				0.08				0.08				0.13				0.08	0.08
Mn	mg/L	0.041	0.036	0.039	0.021				0.034				0.034				0.045				0.037	0.033
Hg	ug/L	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Ni	mg/L	0.0004	0.0005	0.0004	0.0002				0.0003				0.0007				0.0004				0.0003	0.0004
P	mg/L	< 0.03	< 0.03	< 0.03	< 0.03				< 0.03				< 0.03				< 0.03				< 0.03	< 0.03
K	mg/L	0.1	0.08	0.09	0.1				0.09				0.07				0.08				0.1	0.09
Se	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Si	mg/L	0.21	0.22	0.26	0.14				0.27				0.19				0.27				0.22	0.26
Ag	mg/L	< 0.00005	< 0.00005	< 0.00005	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005	< 0.00005
Na	mg/L	0.04	0.06	0.07	0.05				0.04				0.03				0.05				0.04	0.06
Sr	mg/L	0.0025	0.0022	0.0023	0.0013				0.0021				0.0024				0.0028				0.0018	0.002
Te	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Tl	mg/L	< 0.00002	< 0.00002	< 0.00002	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002	< 0.00002
Th	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Sn	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ti	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
U	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
V	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Zn	mg/L	< 0.001	0.002	0.005	< 0.001				0.002				0.002				0.002				< 0.001	0.001
Zr	mg/L	< 0.002	< 0.002	< 0.002	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002	< 0.002

Humidity Cell Sample Data

HC 18 - Granite
04-ARD-180-027
04-ARD-180-028
04-ARD-180-029

S-Total:	0.02	%
S^{2-}:	0.02	%
NP:	8.77	t $CaCO_3$/1000 t
CaNP:	7.27	t $CaCO_3$/1000 t
AP:	0.60	t $CaCO_3$/1000 t

Weeks	#	0	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
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05	7-Jun-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		600	395	470	410	380	500	405	460	490	450	500	450	400	485	460	490	495	490	480	490	485	490	480	490	460	475
pH	Effluent (units)	8.31	8.51	7.72	7.82	8.32	7.98	8.35	7.74	7.75	7.60	7.72	8.12	7.74	7.91	7.79	7.83	7.80	7.44	7.32	7.73	7.53	7.64	7.91	7.43	7.75	7.53
Cond.	(umhos/cm)	51	45	55	30	24	40	32	35	38	38	38	31	25	40	33	28	28	30	29	25	35	28	25	33	25	31
ORP	mV	180	115	120	80	90	105	135	125	110	170	150	100	125	130	160	140	150	170	190	170	130	150	140	160	170	190
Sulphate	(mg/L)	2	2	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	1	< 1	< 1	< 1	1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acidity	(mg CaCO3/L)			< 1	2		1		1	< 1	1	1	< 1	1	1	2	2	2	2	4	2	2	2	2	2	1	1
Alkalinity	(mg CaCO3/L)	11	12	19	11	9	17	11	14	15	15	14	13	9	15	15	15	14	5	14	13	13	13	13	13	12	13
Total P	mg/L																										
TDP	mgP/L																										
Fluoride	mg/L																										
Chloride	mg/L																										
TDS	mg/L																										
Al	mg/L	0.07		0.13		0.13		0.091		0.073		0.082		0.088		0.088		0.071		0.085		0.089		0.093		0.093	
Sb	mg/L	0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
As	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001	
Ba	mg/L	0.004		0.003		0.0013		0.002		0.002		0.002		0.002		0.002		0.002		0.001		0.002		0.002		0.001	
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05	
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002	
Ca	mg/L	3.54		4.85		2.34		3.29		3.86		4.38		2.95		4.42		4.39		3.87		4.12		4.38		3.74	
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Cu	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001	
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.07		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05	
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Li	mg/L	0.003		0.003		0.0011		0.002		0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Mg	mg/L	0.53		0.91		0.38		0.59		0.65		0.73		0.49		0.63		0.65		0.62		0.66		0.68		0.64	
Mn	mg/L	0.002		0.014		0.0047		0.004		0.007		0.008		0.003		0.006		0.008		0.006		0.008		0.007		0.006	
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02	
Mo	mg/L	0.001		0.0009		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005	
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15	
K	mg/L	2.7		1.9		0.87		1.1		0.9		0.9		0.9		0.7		0.8		0.5		0.4		0.5		0.4	
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Si	mg/L	1.4		2.4		1.15		1.5		1.4		1.5		1.4		1.6		1.6		1.4		1.7		1.3		1.4	
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025	
Na	mg/L	3.77		3.18		0.61		0.95		0.56		0.44		0.28		0.26		< 0.05		0.21		0.18		0.18		0.13	
Sr	mg/L	0.032		0.043		0.016		0.025		0.027		0.03		0.02		0.026		0.025		0.022		0.022		0.023		0.02	
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001	
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005	
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		0.0006		0.0007		0.0006		0.0009		0.0005		0.0005		< 0.0005		< 0.0005		< 0.0005	
V	mg/L	0.003		0.002		0.0022		0.002		0.002		0.002		0.002		0.002		0.001		0.001		< 0.001		< 0.001		< 0.001	
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005	
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	

Weeks	#	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Date		14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05	30-Aug-05	6-Sep-05	13-Sep-05	20-Sep-05	27-Sep-05	4-Oct-05	11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05	29-Nov-05	6-Dec-05	########	########	########	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	########	########	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		485	485	480	505	485	470	495	485	480	485	480	490	475	495	490	495	495	500	495	490	480	520	495	495	485	495	460	500	465	500	480	495	475	495	495	470	490	440
pH	Effluent (units)	7.16	7.35	7.47	7.53	7.49	7.44	7.09	7.31	7.44	7.42	7.15	7.31	7.77	7.67	7.79	7.65	7.68	7.75	7.69	7.79	7.87	7.74	7.68	7.67	7.68	7.76	7.43	7.48	7.42	7.74	7.64	7.75	7.72	7.70	7.53	7.61	7.24	7.72
Cond.	(umhos/cm)	28	31	30	32	31	32	31	32	33	32	32	35	30	31	31	31	32	31	31	30	26	32	32	33	33	31	29	27	28	28	28	29	15	38	30	32	34	25
ORP	mV	225	140	200	240	210	115	200	170	135	165	160	140	200	200	125	135	190	200	160	140	140	145	175	155	135	175	155	155	155	225	190	165	140	155	150	220	160	130
Sulphate	(mg/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	1	1	1	1	2	< 1	2	1	< 1	< 1	1	< 1	1	< 1	1	1	1	< 1	1
Acidity	(mg CaCO3/L)	2	2	2	2	3	3	3	3	2	2	3	3	1	1	< 1	< 1	< 1	1	1	1	< 1	1	1	1	< 1	< 1	2	3	5	2	3	1	3	1	2	1	1	1
Alkalinity	(mg CaCO3/L)	13	13	14	12	13	13	15	15	15	15	14	15	14	15	16	15	14	15	15	15	15	16	14	15	17	17	14	15	15	14	14	15	15	17	16	15	16	12
Total P	mg/L																																						
TDP	mgP/L																																						
Fluoride	mg/L																	<0.1				<0.1				<0.1				<0.1				0.06				<0.1	
Chloride	mg/L																	0.40				0.4				<0.2				<0.2				<0.2				0.3	
TDS	mg/L																	23				16				12				16				23				9	
Al	mg/L	0.089		0.11		0.12		0.095		0.10		0.098		0.079				0.077				0.093				0.083				0.063				0.057				0.060	
Sb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0002				< 0.001				< 0.001				< 0.001	
As	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Ba	mg/L	0.001		0.001		0.001		0.002		0.001		0.001		0.002				0.001				0.002				0.0016				0.002				0.001				0.002	
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05				< 0.01				< 0.05				< 0.05				< 0.05	
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002				< 0.0002				< 0.00004				< 0.0002				< 0.0002				< 0.0002	
Ca	mg/L	4.04		4.08		4.32		4.07		4.08		4.18		3.87				3.92				4.06				4.33				3.92				3.63				3.78	
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05				< 0.01				< 0.05				< 0.05				< 0.05	
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Li	mg/L	< 0.001		0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0006				< 0.001				< 0.001				< 0.001	
Mg	mg/L	0.74		0.82		0.84		0.65		0.7		0.72		0.74				0.85				0.84				0.96				0.93				0.88				0.94	
Mn	mg/L	0.008		0.008		0.008		0.006		0.005		0.005		0.004				0.002				0.001				0.0013				< 0.001				< 0.001				< 0.001	
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	
Mo	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005	
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15				< 0.15				< 0.15				< 0.03				< 0.15				< 0.15				< 0.15	
K	mg/L	0.6		0.6		0.5		0.5		0.5		0.4		0.5				0.4				0.4				0.4				0.4				0.4				0.5	
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Si	mg/L	1.7		1.8		1.9		1.2		1.3		1		1.2				1				0.6				0.5				1.1				0.4				0.5	
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025				< 0.00025				< 0.00005				< 0.00025				< 0.00025				< 0.00025	
Na	mg/L	0.15		0.16		0.15		0.12		0.12		< 0.05		0.08				< 0.05				0.08				0.25				< 0.05				0.15				0.26	
Sr	mg/L	0.02		0.019		0.019		0.018		0.018		0.016		0.015				0.014				0.015				0.013				0.012				0.010				0.011	
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001				< 0.0001				< 0.00002				< 0.0001				< 0.0001				< 0.0001	
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005	
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005				0.0001				< 0.0005				< 0.0005				< 0.0005	
V	mg/L	< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0005				< 0.001				< 0.001				< 0.001	
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005				< 0.005				< 0.005				0.001				< 0.005				< 0.005				< 0.005	
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01				< 0.01				< 0.002				< 0.01				< 0.01				< 0.01	

Weeks	#	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Date		7-Mar-06	########	########	########	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	########	########	########	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	########	########	########	5-Sep-06	########	########	########	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06	14-Nov-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		470	485	460	475	455	500	480	495	495	505	495	485	490	500	465	500	500	490	460	495	480	500	445	490	505	465	400	440	430	490	475	460	480	470	465	460	495
pH	Effluent (units)	7.78	7.42	7.40	7.60	7.75	7.66	7.63	7.81	7.25	7.56	7.50	7.76	7.78	7.77	7.75	7.66	7.81	7.79	7.79	7.68	7.53	7.89	7.83	7.84	7.47	7.64	7.71	8.04	8.14	7.60	7.82	7.84	7.95	7.82	7.85	7.64	7.78
Cond.	(umhos/cm)	27	31	22	26	27	24	25	26	26	25	25	23	28	29	29	22	23	20	18	23	22	25	20	25	24	24	16	22	20	20	24	22	26	24	22	23	24
ORP	mV	160	155	160	130	155	180	140	160	100	160	110	150	170	160	140	140	145	135	180	145	190	140	205	125	160	120	125	120	130	120	150	160	135	155	145	120	120
Sulphate	(mg/L)	1	< 1	1	< 1	< 1	< 1	< 1	1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	2	1	1	< 1	< 1	1	1	< 1	1	1	1	< 1	1	1	1	1	2	1
Acidity	(mg CaCO3/L)	1	1	2	1	< 1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Alkalinity	(mg CaCO3/L)	13	15	12	13	12	13	14	14	14	13	14	12	13	14	13	15	15	15	13	14	13	16	13	15	16	15	11	13	13	17	14	14	16	15	14	13	15
Total P	mg/L																																					
TDP	mgP/L																																					
Fluoride	mg/L			<0.1				<0.1				<0.1				<0.1				<0.1				<0.1				<0.1				<0.1				<0.1		
Chloride	mg/L			0.3				<0.2				<0.2				<0.2				0.61				<0.2				<0.2				<0.2				0.3		
TDS	mg/L			28				26				6				12				16				6				2				39				39		
Al	mg/L			0.093				0.11				0.077				0.07				0.08				0.09				0.11				0.051				0.056		
Sb	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
As	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Ba	mg/L			0.002				0.001				0.001				< 0.001				0.001				0.001				< 0.001				0.001				0.001		
Be	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Bi	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
B	mg/L			< 0.05				< 0.05				<0.05				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05		
Cd	mg/L			< 0.0002				< 0.0002				<0.0002				< 0.0002				<0.0002				<0.0002				< 0.0002				< 0.0002				<0.0002		
Ca	mg/L			3.39				3.36				3.38				3.25				3.07				2.72				1.87				3.24				3.32		
Cr	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Co	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Cu	mg/L			< 0.001				< 0.001				<0.001				< 0.001				0.001				<0.001				< 0.001				< 0.001				<0.001		
Fe	mg/L			< 0.05				< 0.05				<0.05				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05		
Pb	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Li	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Mg	mg/L			0.92				1.13				1.04				0.90				0.9				0.78				0.93				1				1.13		
Mn	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Hg	ug/L			< 0.02				< 0.02				<0.02				< 0.02				<0.02				<0.02				< 0.02				< 0.02				<0.02		
Mo	mg/L			< 0.0005				< 0.0005				<0.0005				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005		
Ni	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				0.007		
P	mg/L			< 0.15				< 0.15				<0.15				< 0.15				<0.15				<0.15				< 0.15				< 0.15				<0.15		
K	mg/L			0.4				0.4				0.4				0.3				0.4				0.3				0.3				< 0.1				0.3		
Se	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Si	mg/L			0.4				0.7				0.5				0.4				0.3				0.3				0.4				< 0.25				0.4		
Ag	mg/L			< 0.00025				< 0.00025				<0.00025				< 0.00025				<0.00025				<0.00025				< 0.00025				< 0.00025				<0.00025		
Na	mg/L			0.1				0.1				<0.05				< 0.05				<0.05				0.06				< 0.05				< 0.05				<0.05		
Sr	mg/L			0.01				0.009				0.009				0.008				0.007				0.006				0.006				0.007				0.007		
Te	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Tl	mg/L			< 0.0001				< 0.0001				<0.0001				< 0.0001				<0.0001				<0.0001				< 0.0001				< 0.0001				<0.0001		
Th	mg/L			< 0.0005				< 0.0005				<0.0005				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005		
Sn	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Ti	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
U	mg/L			< 0.0005				< 0.0005				<0.0005				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005		
V	mg/L			< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001		
Zn	mg/L			< 0.005				< 0.005				<0.005				< 0.005				<0.005				<0.005				< 0.005				< 0.005				<0.005		
Zr	mg/L			< 0.01				< 0.01				<0.01				< 0.01				<0.01				<0.01				< 0.01				< 0.01				<0.01		

Humidity Cell Sample Data

HC 18 - Granite
04-ARD-180-027
04-ARD-180-028
04-ARD-180-029

Weeks	#	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133
Date		21-Nov-06	28-Nov-06	5-Dec-06	########	########	########	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	########	########	########	6-Mar-07	########	########	########	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		460	455	470	455	460	465	405	410	455	450	460	480	460	490	490	505	465	495	495	480	500	480	465	465	495	460	495	485	490	470	485	485	490
pH	Effluent (units)	7.90	7.71	7.60	7.60	7.72	7.65	7.72	7.65	7.68	7.72	7.69	7.67	7.72	7.50	7.58	7.48	7.73	7.65	7.66	7.60	7.73	7.84	7.70	7.52	7.56	7.63	7.62	7.66	7.54	7.64	7.54	7.67	7.65
Cond.	(umhos/cm)	22	22	24	22	21	20	16	17	22	20	20	23	22	25	24	11	22	22	23	22	24	23	22	22	22	22	21	22	23	22	23	21	22
ORP	mV	115	120	110	115	110	115	110	110	110	95	105	110	105	110	110	110	110	110	110	105	105	105	100	105	110	105	110	100	105	110	110	110	110
Sulphate	(mg/L)	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	1	< 1	< 1	< 1	1	1	1	2	1	< 1	1	1	2	1	2	< 1	1	4	1	1	< 1	< 1
Acidity	(mg CaCO3/L)	1	1	1	1	1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	14	14	15	15	14	13	11	11	14	14	14	15	14	16	16	10	14	14	15	14	15	14	14	13	14	13	14	14	14	12	14	14	14
Total P	mg/L																																	
TDP	mgP/L																																	
Fluoride	mg/L		<0.1				<0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Chloride	mg/L		0.3				<0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2			
TDS	mg/L		<1				18				< 10				12				21				< 10				10				< 10			
Al	mg/L		0.067				0.039				0.047				0.032				0.039				0.037				0.033				0.035			
Sb	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
As	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Ba	mg/L		0.001				0.0012				0.002				0.001				0.001				0.001				0.001				0.001			
Be	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Bi	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
B	mg/L		< 0.05				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.01				< 0.01			
Cd	mg/L		< 0.0002				< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.00004				< 0.00004			
Ca	mg/L		2.99				2.92				2.8				3.23				2.91				2.9				2.89				2.77			
Cr	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Co	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Cu	mg/L		0.001				0.0002				< 0.001				< 0.001				< 0.001				0.002				< 0.0002				0.0003			
Fe	mg/L		< 0.05				0.01				< 0.05				< 0.05				< 0.05				0.11				< 0.01				< 0.01			
Pb	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Li	mg/L		< 0.001				0.0004				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Mg	mg/L		1.03				0.98				0.98				1				1.08				1.08				1.1				0.98			
Mn	mg/L		< 0.001				0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Hg	ug/L		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L		< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0001			
Ni	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
P	mg/L		< 0.15				< 0.03				< 0.15				< 0.15				< 0.15				< 0.15				< 0.03				< 0.03			
K	mg/L		0.3				0.26				0.3				0.3				0.3				0.3				0.29				0.26			
Se	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Si	mg/L		0.3				0.24				< 0.25				< 0.25				0.3				< 0.25				0.23				0.2			
Ag	mg/L		< 0.00025				< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00005				< 0.00005			
Na	mg/L		< 0.05				0.04				< 0.05				< 0.05				0.05				0.07				0.05				0.05			
Sr	mg/L		0.009				0.02				0.006				0.006				0.006				0.006				0.0049				0.0045			
Te	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Tl	mg/L		< 0.0001				< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.00002				< 0.00002			
Th	mg/L		< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0001			
Sn	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Ti	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
U	mg/L		< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0001			
V	mg/L		< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002			
Zn	mg/L		< 0.005				< 0.001				< 0.005				< 0.005				< 0.005				< 0.005				< 0.001				< 0.001			
Zr	mg/L		< 0.01				< 0.002				< 0.01				< 0.01				< 0.01				< 0.01				< 0.002				< 0.002			

Weeks	#	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170
Date		10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	########	########	########	4-Sep-07	########	########	########	2-Oct-07	9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	########	########	########	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	########	########	########	4-Mar-08	########	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		500	495	500	490	505	495	500	490	505	490	490	470	450	470	470	475	460	480	465	480	485	480	475	480	430	465	460	470	465	460	455	470	500	490	495	500	505
pH	Effluent (units)	7.73	7.38	7.68	7.58	7.62	7.66	7.74	7.58	7.65	7.66	7.74	7.74	7.60	7.61	7.57	7.64	7.55	7.48	7.50	7.65	7.60	7.38	7.49	7.55	7.47	7.48	7.56	7.50	7.42	7.47	7.45	7.52	7.56	7.54	7.44	7.49	7.59
Cond.	(umhos/cm)	24	18	24	24	24	24	24	22	23	24	24	23	20	21	21	18	20	19	20	19	21	18	22	19	19	20	19	19	20	19	20	22	22	22	22	21	21
ORP	mV	110	110	110	145	150	155	140	145	140	135	140	125	135	125	120	110	105	110	110	110	110	150	110	120	110	110	110	110	110	110	105	110	105	110	115	120	120
Sulphate	(mg/L)	< 1	< 1	1	1	1	< 1	< 1	1	1	2	1	< 1	1	< 1	2	1	1	1	1	< 1	< 1	1	< 1	< 1	1	< 1	1	1	< 1	< 1	2	1	1	1	1	< 1	1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	14	8	14	14	14	14	14	14	14	14	14	14	12	13	13	12	12	13	13	13	14	13	13	12	13	13	12	12	12	12	14	13	14	14	13	13	14
Total P	mg/L																																					< 0.02
TDP	mgP/L																																					-
Fluoride	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2
TDS	mg/L	50				14				10				< 10				24				26				< 10				< 10				21				21
Al	mg/L	0.031				0.039				0.024				0.041				0.053				0.35				0.036				0.036				0.019				0.027
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
As	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Ba	mg/L	0.001				0.001				0.001				0.001				0.001				0.005				0.001				0.001				0.001				0.001
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
B	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Ca	mg/L	2.37				2.93				2.51				2.28				2.39				3.11				2.36				2.41				2.67				2.59
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Cu	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.001				< 0.001				< 0.001				< 0.001				< 0.001
Fe	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				0.27				< 0.05				< 0.05				< 0.05				< 0.05
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Li	mg/L	< 0.005				< 0.005				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.004				< 0.001				< 0.001
Mg	mg/L	0.89				1.11				0.95				0.87				1				1.2				0.93				1.08				1.26				1.11
Mn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				0.001				0.015				< 0.001				< 0.001				< 0.001				< 0.001
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
Ni	mg/L	< 0.001				< 0.001				< 0.001				0.002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15
K	mg/L	0.3				0.3				0.3				0.3				0.3				0.5				0.2				0.2				0.2				0.3
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Si	mg/L	< 0.25				0.3				< 0.25				< 0.25				< 0.25				0.8				< 0.25				< 0.25				1.9				< 0.25
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025
Na	mg/L	< 0.05				0.05				< 0.05				< 0.05				0.06				0.16				< 0.05				< 0.05				< 0.05				< 0.05
Sr	mg/L	0.005				0.005				0.004				0.004				0.004				0.006				0.004				0.004				0.004				0.004
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.011				< 0.001				< 0.001				< 0.001				< 0.001
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
V	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Zn	mg/L	< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01

Weeks	#	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Date		########	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	########	########	########	2-Sep-08	9-Sep-08	########	########	########	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		485	500	500	495	475	495	490	510	500	505	490	495	500	510	490	480	495	495	500	460	470	480	495	490	485	490	470	500	500	500	465	490	490	495	490	490	490
pH	Effluent (units)	7.60	7.56	7.60	7.55	7.67	7.50	7.61	7.58	7.54	7.56	7.53	7.58	7.56	7.50	7.51	7.43	7.43	7.47	7.48	7.41	7.49	7.60	7.64	7.43	7.42	7.42	7.56	7.36	7.49	7.56	7.44	7.37	7.44	7.37	7.40	7.45	7.45
Cond.	(umhos/cm)	20	20	19	21	20	20	19	18	22	22	18	21	21	21	21	21	22	22	21	19	22	23	23	23	17	21	23	18	17	21	23	28	29	27	25	24	25
ORP	mV	160	170	145	155	155	145	150	165	150	170	170	175	150	140	160	150	150	160	135	135	160	135	140	145	130	140	135	125	135	150	155	145	130	140	120	160	160
Sulphate	(mg/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1	1	1	< 1	2	1	4	< 1	< 1	< 1	1	< 1	< 1	1	1	3	2	< 1	1	3	< 1	1	1	< 1	1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	2	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	1
Alkalinity	(mg CaCO3/L)	13	14	13	13	13	13	13	12	12	13	12	13	13	12	12	13	13	12	12	12	13	12	13	12	12	13	11	12	12	12	10	12	11	11	12	12	13
Total P	mg/L				0.03				0.02				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				0.02				< 0.02				< 0.02	< 0.02
TDP	mgP/L				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Fluoride	mg/L				< 0.05				< 0.05				< 0.05				< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.05
Chloride	mg/L				< 0.2				< 0.2				< 0.2				< 0.2	< 0.2	< 0.2	< 0.2	0.34				0.48				0.27				0.60				0.21	1
TDS	mg/L	CCME DL			< 10	CCME DL			11	CCME DL			< 10	CCME DL			< 10	13	17	< 10	< 10				24				13				10				15	25
Al	mg/L	0.027			0.027	0.025			0.031	0.024			0.039	0.025			0.026	0.021	0.017	0.024	0.028				0.022				0.028				0.021				0.028	0.018
Sb	mg/L	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
As	mg/L	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ba	mg/L	0.0013			0.001	0.0013			0.001	0.0011			0.001	0.001			0.001	0.0012	0.0013	0.001	0.0012				0.0012				0.0017				0.0017				0.0012	0.0014
Be	mg/L	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Bi	mg/L	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
B	mg/L	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Cd	mg/L	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004	< 0.00004
Ca	mg/L	2.67			2.66	2.55			2.53	2.55			2.37	2.34			2.52	2.4	2.33	2.3	2.28				2.66				2.58				3.4				2.67	2.81
Cr	mg/L	< 0.0002			0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Co	mg/L	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Cu	mg/L	0.0005			< 0.001	0.0001			< 0.001	0.0002			< 0.001	0.0004			0.0002	0.0003	0.0002	0.0002	0.0008				0.0002				0.0013				0.0006				0.0051	0.0026
Fe	mg/L	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				< 0.01				< 0.01				0.01	< 0.01
Pb	mg/L	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Li	mg/L	0.0006			0.001	0.001			< 0.001	0.0006			< 0.001	0.0004			0.0008	0.0003	0.0004	0.0004	0.0004				0.0003				0.0003				0.0004				0.0003	0.0004
Mg	mg/L	1.18			1.14	1.21			1.33	1.22			1.05	1.15			1.2	0.97	1.01	1.03	1.01				1.08				1.01				1.58				1.12	1.24
Mn	mg/L	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002				< 0.0002				< 0.0002				0.0004				0.0006	< 0.0002
Hg	ug/L	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Ni	mg/L	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
P	mg/L	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03			< 0.03	< 0.03	0.06	< 0.03	< 0.03				< 0.03				< 0.03				< 0.03				< 0.03	< 0.03
K	mg/L	0.24			0.2	0.19			0.3	0.23			0.2	0.23			0.22	0.21	0.21	0.21	0.22				0.22				0.2				0.24				0.22	0.2
Se	mg/L	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Si	mg/L	0.21			0.3	0.2			0.3	0.19			< 0.25	0.18			0.18	0.15	0.15	0.18	0.16				0.17				0.17				0.18				0.16	0.18
Ag	mg/L	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005	< 0.00005
Na	mg/L	0.04			< 0.05	0.05			<0.05	0.04			< 0.05	0.05			0.04	0.03	0.07	0.04	0.03				0.03				0.03				0.04				0.04	0.04
Sr	mg/L	0.004			0.004	0.0041			0.004	0.0037			0.004	0.0033			0.0035	0.0033	0.0031	0.003	0.003				0.0034				0.0035				0.0044				0.0029	0.0032
Te	mg/L	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Tl	mg/L	< 0.00002			< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002	< 0.00002
Th	mg/L	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Sn	mg/L	< 0.0002			< 0.001	0.0003			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ti	mg/L	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
U	mg/L	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
V	mg/L	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Zn	mg/L	< 0.001			< 0.005	0.002			< 0.005	< 0.001			< 0.005	0.002			< 0.001	< 0.001	0.001	< 0.001	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.001
Zr	mg/L	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002	< 0.002

Humidity Cell Sample Data

HC 19 - Granite and Granodiorite
04-ARD-120-010
04-ARD-120-011

S-Total:	0.03	%
S^{2-}:	0.03	%
NP:	6.25	t $CaCO_3$/1000 t
CaNP:	4.20	t $CaCO_3$/1000 t
AP:	0.77	t $CaCO_3$/1000 t

Weeks	#	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		560	445	500	405	480	490	330	370	415	455	345	420	420	465	490	480	480	355	490	485	390	435	475	500	500
pH	Effluent (units)	8.57	8.27	7.77	7.83	8.11	7.67	8.59	7.90	7.87	7.67	8.22	8.25	8.01	8.04	8.02	7.56	7.98	8.01	8.05	7.93	8.03	7.85	8.09	7.79	7.87
Cond.	(umhos/cm)	42	59	53	44	50	40	33	30	40	50	30	33	36	49	42	34	33	20	36	31	37	34	32	40	33
ORP	mV	200	165	125	95	105	110	120	130	85	170	140	110	150	130	160	140	155	160	190	190	130	140	145	170	180
Sulphate	(mg/L)	3	2	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	1	< 1	< 1	< 1	1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1
Acidity	(mg CaCO3/L)		1	2	2	2	1		1	< 1	1	< 1	< 1	1	1	1	3	1	1	1	1	1	1	2	1	< 1
Alkalinity	(mg CaCO3/L)	11	21	22	17	20	19	12	12	15	20	11	14	15	19	18	18	17	10	17	17	14	15	17	17	17
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L																									
Chloride	mg/L																									
TDS	mg/L																									
Al	mg/L	0.085		0.15		0.12		0.14		0.12		0.16		0.099		0.099		0.13		0.11		0.14		0.1		0.12
Sb	mg/L	0.002		0.002		0.0019		< 0.001		0.001		0.001		0.002		0.002		0.002		0.002		0.001		0.001		0.001
As	mg/L	0.002		0.001		0.0013		0.001		0.002		0.001		0.001		< 0.001		0.001		0.003		0.001		0.001		0.002
Ba	mg/L	0.003		0.004		0.0034		0.002		0.002		0.002		0.002		0.002		0.003		0.002		0.003		0.003		0.003
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	4.03		6.98		7.15		4.31		5		4.32		5.6		7.24		6.68		6.15		5.37		6.73		6.22
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	0.004		< 0.001		< 0.001		0.002		< 0.001		0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.08		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.002		0.003		0.0019		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Mg	mg/L	0.32		0.66		0.5		0.29		0.3		0.19		0.23		0.23		0.22		0.21		0.17		0.20		0.20
Mn	mg/L	0.005		0.062		0.044		0.008		0.013		0.007		0.013		0.019		0.018		0.014		0.01		0.014		0.013
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.015		0.014		0.0071		0.0035		0.0045		0.0021		0.0035		0.0024		0.0022		0.0022		0.0016		0.0016		0.0011
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	mg/L	2.7		2		1.15		0.8		0.8		0.6		0.8		0.5		0.5		0.4		0.3		0.5		0.5
Se	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Si	mg/L	1.7		2.8		2.13		1.2		1.2		1.2		1.7		1.8		1.6		1.7		1.6		1.5		1.7
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	2.5		1.53		0.39		0.2		0.22		0.13		0.15		0.12		< 0.05		0.14		0.12		0.13		0.09
Sr	mg/L	0.019		0.03		0.026		0.015		0.017		0.011		0.015		0.016		0.015		0.013		0.011		0.013		0.012
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	0.0006		0.02		0.019		0.0086		0.015		0.0062		0.011		0.01		0.008		0.0071		0.005		0.0051		0.0054
V	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01

Weeks	#	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Date		7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05	30-Aug-05	6-Sep-05	13-Sep-05	20-Sep-05	27-Sep-05	4-Oct-05	11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	480	480	490	490	485	400	490	490	480	480	495	490	495	480	475	495	480	490	495	480	480	450	505	485
pH	Effluent (units)	7.65	7.21	7.61	7.68	7.66	7.36	7.84	7.34	7.33	7.51	7.56	7.41	7.37	7.74	7.79	7.79	7.70	7.83	7.89	7.69	7.84	7.87	7.93	7.65	7.69
Cond.	(umhos/cm)	36	33	37	36	38	38	35	37	38	37	37	37	40	35	35	33	33	33	34	31	32	28	29	31	32
ORP	mV	180	210	150	205	230	200	100	170	170	130	155	165	140	190	180	130	140	170	190	155	145	135	160	160	160
Sulphate	(mg/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	1	1
Acidity	(mg CaCO3/L)	< 1	2	1	2	1	3	1	3	3	2	2	3	3	1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	1	1	2
Alkalinity	(mg CaCO3/L)	16	16	16	16	15	15	14	16	17	15	17	17	17	15	15	16	16	15	16	14	15	16	15	12	14
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L																		0.25				0.28			
Chloride	mg/L																		0.41				0.4			
TDS	mg/L																		20				27			
Al	mg/L		0.11		0.13		0.14		0.1		0.11		0.13		0.12				0.081				0.099			
Sb	mg/L		< 0.001		0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
As	mg/L		0.002		0.001		0.002		< 0.001		< 0.001		0.001		< 0.001				< 0.001				< 0.001			
Ba	mg/L		0.003		0.003		0.002		0.003		0.003		0.003		0.003				0.003				0.003			
Be	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Bi	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
B	mg/L		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05			
Cd	mg/L		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L		5.98		6.25		6.41		5.51		5.58		5.90		5.44				5.12				5.66			
Cr	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Co	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Cu	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Fe	mg/L		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05			
Pb	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Li	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Mg	mg/L		0.19		0.20		0.20		0.13		0.15		0.14		0.13				0.13				0.12			
Mn	mg/L		0.014		0.013		0.014		0.01		0.011		0.011		0.011				0.011				0.011			
Hg	ug/L		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02				< 0.02				< 0.02			
Mo	mg/L		0.0012		0.0014		0.0013		0.0012		0.0011		0.001		0.001				0.0009				0.0009			
Ni	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
P	mg/L		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15				< 0.15				< 0.15			
K	mg/L		0.6		0.6		0.6		0.4		0.4		0.4		0.5				0.3				0.4			
Se	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Si	mg/L		1.9		1.9		1.8		1.2		1.3		1.0		1.3				1				0.6			
Ag	mg/L		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025				< 0.00025			
Na	mg/L		0.11		0.13		0.08		0.08		0.09		< 0.05		0.05				< 0.05				0.07			
Sr	mg/L		0.011		0.011		0.011		0.009		0.009		0.009		0.008				0.007				0.008			
Te	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Tl	mg/L		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001				< 0.0001			
Th	mg/L		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Ti	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
U	mg/L		0.0054		0.0047		0.0053		0.003		0.003		0.0034		0.0028				0.0022				0.002			
V	mg/L		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001			
Zn	mg/L		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005				< 0.005				< 0.005			
Zr	mg/L		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01				< 0.01			

Weeks	#	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
Date		29-Nov-05	6-Dec-05	########	########	########	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	########	########	########	7-Mar-06	########	########	########	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		485	490	425	495	475	460	485	500	490	485	490	485	490	460	490	480	410	465	485	500	480	495	490	505	490
pH	Effluent (units)	7.72	7.66	7.52	7.46	7.52	7.68	7.81	7.81	7.65	7.92	7.55	7.69	7.40	7.65	7.65	7.26	7.35	7.65	7.64	7.48	7.39	7.73	7.29	7.49	7.49
Cond.	(umhos/cm)	31	32	28	29	31	27	29	28	30	36	28	33	33	30	29	30	21	28	33	21	27	25	25	25	23
ORP	mV	150	160	155	150	160	215	180	180	140	190	175	225	170	155	170	175	160	125	140	175	150	160	105	165	120
Sulphate	(mg/L)	< 1	1	1	< 1	< 1	1	< 1	1	< 1	1	< 1	1	< 1	1	1	< 1	1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	2	3	4	2	2	1	2	1	1	1	2	1	< 1	1	2	< 1	1	1	1	1	1	1	1
Alkalinity	(mg CaCO3/L)	16	15	14	15	14	12	13	12	13	14	14	14	15	13	13	13	10	12	14	12	14	13	14	12	12
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L	0.27				0.20				0.20				0.23				0.17				0.24				0.23
Chloride	mg/L	<0.2				<0.2				<0.2				0.3				<0.2				<0.2				0.30
TDS	mg/L	19				19				12				<5				17				20				48
Al	mg/L	0.086				0.062				0.055				0.056				0.088				0.110				0.085
Sb	mg/L	0.0005				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
As	mg/L	0.0007				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Ba	mg/L	0.0027				0.003				0.003				0.003				0.002				0.002				0.003
Be	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Bi	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
B	mg/L	< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				<0.05
Cd	mg/L	< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				<0.0002
Ca	mg/L	5.53				5.10				4.66				4.92				4.06				4.90				4.41
Cr	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Co	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Cu	mg/L	0.0014				0.002				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Fe	mg/L	< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				<0.05
Pb	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Li	mg/L	0.0004				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Mg	mg/L	0.12				0.13				0.09				0.10				0.10				0.14				0.10
Mn	mg/L	0.0089				0.007				0.002				< 0.001				< 0.001				< 0.001				<0.001
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				<0.02
Mo	mg/L	0.0008				0.0008				0.0008				0.0012				0.0014				0.0014				0.0013
Ni	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
P	mg/L	< 0.03				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				<0.15
K	mg/L	0.4				0.4				0.3				0.5				0.3				0.3				0.4
Se	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Si	mg/L	0.5				1.1				0.5				0.5				0.4				0.7				0.6
Ag	mg/L	< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				<0.00025
Na	mg/L	0.17				< 0.05				0.12				0.25				0.07				0.08				<0.05
Sr	mg/L	0.0063				0.006				0.005				0.006				0.004				0.005				0.005
Te	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Tl	mg/L	< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				<0.0001
Th	mg/L	< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				<0.0005
Sn	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Ti	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
U	mg/L	0.0019				0.0018				0.0015				0.0017				0.0015				0.002				0.0015
V	mg/L	< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				<0.001
Zn	mg/L	0.002				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				<0.005
Zr	mg/L	< 0.002				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				<0.01

Weeks	#	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
Date		########	########	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	########	########	########	5-Sep-06	########	########	########	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		500	495	500	465	500	480	495	500	500	490	495	485	495	500	475	410	450	460	480	490	495	485	480	465	480
pH	Effluent (units)	7.60	7.74	7.49	7.40	7.63	7.60	7.56	7.77	7.58	7.56	7.72	7.58	7.63	7.59	7.49	7.48	7.68	7.72	7.52	7.46	7.48	7.66	7.55	7.61	7.68
Cond.	(umhos/cm)	24	29	28	27	20	22	19	18	20	19	20	22	21	21	22	15	22	22	17	23	20	21	21	19	19
ORP	mV	150	165	150	140	150	150	155	165	150	170	150	215	135	160	130	130	125	140	135	125	125	105	115	120	110
Sulphate	(mg/L)	< 1	< 1	< 1	< 1	1	1	1	< 1	2	1	< 1	1	< 1	1	1	< 1	< 1	< 1	1	< 1	< 1	< 1	2	1	1
Acidity	(mg CaCO3/L)	1	1	2	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
Alkalinity	(mg CaCO3/L)	12	12	12	12	14	14	14	13	16	13	13	13	13	13	13	10	13	13	13	13	13	12	11	12	11
Total P	mg/L																									
TDP	mgP/L																									
Fluoride	mg/L				0.19				0.19				0.19				0.17				0.18				0.16	
Chloride	mg/L				<0.2				<0.2				<0.2				<0.2				<0.2				0.3	
TDS	mg/L				9				18				22				2				81				32	
Al	mg/L				0.071				0.074				0.070				0.140				0.05				0.058	
Sb	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
As	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Ba	mg/L				0.002				0.002				0.002				0.002				0.002				0.002	
Be	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Bi	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
B	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Cd	mg/L				< 0.0002				<0.0002				<0.0002				< 0.0002				< 0.0002				<0.0002	
Ca	mg/L				4.45				4.48				4.30				2.93				4.21				4.05	
Cr	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Co	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Cu	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Fe	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Pb	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Li	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Mg	mg/L				0.09				0.1				0.09				0.08				0.09				0.09	
Mn	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Hg	ug/L				< 0.02				<0.02				<0.02				< 0.02				< 0.02				<0.02	
Mo	mg/L				0.0011				0.0011				0.0011				0.001				0.0009				0.0009	
Ni	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
P	mg/L				< 0.15				<0.15				<0.15				< 0.15				< 0.15				<0.15	
K	mg/L				0.3				0.3				0.3				0.1				< 0.1				0.3	
Se	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Si	mg/L				0.5				0.3				0.4				0.4				< 0.25				0.4	
Ag	mg/L				< 0.00025				<0.00025				<0.00025				< 0.00025				< 0.00025				<0.00025	
Na	mg/L				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Sr	mg/L				0.004				0.005				0.004				0.003				0.004				0.004	
Te	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Tl	mg/L				< 0.0001				<0.0001				<0.0001				< 0.0001				< 0.0001				<0.0001	
Th	mg/L				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005	
Sn	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Ti	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
U	mg/L				0.0017				0.0015				0.0017				0.0015				0.0012				0.0011	
V	mg/L				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Zn	mg/L				< 0.005				<0.005				<0.005				< 0.005				< 0.005				<0.005	
Zr	mg/L				< 0.01				<0.01				<0.01				< 0.01				< 0.01				<0.01	

Humidity Cell Sample Data

HC 19 - Granite and Granodiorite
04-ARD-120-010
04-ARD-120-011

Weeks	#	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117
Date		14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	########	########	########	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	########	########	########	6-Mar-07	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	480	450	475	485	480	490	435	450	410	450	475	475	480	500	485	500	485
pH	Effluent (units)	7.55	7.50	7.41	7.49	7.48	7.47	7.43	7.51	7.52	7.46	7.58	7.59	7.43	7.60	7.41	7.43	7.43	7.52
Cond.	(umhos/cm)	19	19	19	21	20	18	15	16	17	14	17	18	17	19	18	18	16	17
ORP	mV	115	105	115	110	110	110	115	110	105	105	110	105	110	110	110	100	110	110
Sulphate	(mg/L)	3	< 1	< 1	1	1	1	< 1	< 1	< 1	2	2	< 1	1	1	< 1	1	< 1	1
Acidity	(mg CaCO3/L)	1	1	1	1	1	< 1	1	1	< 1	< 1	1	< 1	< 1	< 1	1	1	< 1	< 1
Alkalinity	(mg CaCO3/L)	12	12	12	13	12	12	10	11	12	10	11	11	11	11	12	11	11	11
Total P	mg/L																		
TDP	mgP/L																		
Fluoride	mg/L			0.14				<0.05				0.13				0.14			
Chloride	mg/L			0.3				<0.2				< 0.2				< 0.2			
TDS	mg/L			<1				<10				< 10				32			
Al	mg/L			0.066				0.043				0.049				0.034			
Sb	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
As	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Ba	mg/L			0.002				0.0019				0.003				0.002			
Be	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Bi	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
B	mg/L			< 0.05				< 0.01				< 0.05				< 0.05			
Cd	mg/L			< 0.0002				< 0.00004				< 0.0002				< 0.0002			
Ca	mg/L			3.62				3.23				3.76				3.45			
Cr	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Co	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Cu	mg/L			0.001				< 0.0002				< 0.001				< 0.001			
Fe	mg/L			< 0.05				0.01				< 0.05				< 0.05			
Pb	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Li	mg/L			< 0.001				0.0003				< 0.001				< 0.001			
Mg	mg/L			0.06				0.06				0.07				0.06			
Mn	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L			< 0.0005				0.0005				0.0007				0.0007			
Ni	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
P	mg/L			< 0.15				< 0.03				< 0.15				< 0.15			
K	mg/L			0.2				0.19				0.2				0.2			
Se	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Si	mg/L			0.3				0.27				0.3				< 0.25			
Ag	mg/L			< 0.00025				< 0.00005				< 0.00025				< 0.00025			
Na	mg/L			< 0.05				0.03				< 0.05				< 0.05			
Sr	mg/L			0.004				0.0053				0.004				0.003			
Te	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Tl	mg/L			< 0.0001				< 0.00002				< 0.0001				< 0.0001			
Th	mg/L			< 0.0005				< 0.0001				< 0.0005				< 0.0005			
Sn	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Ti	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
U	mg/L			0.0005				0.0005				0.001				0.0007			
V	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Zn	mg/L			< 0.005				< 0.001				< 0.005				< 0.005			
Zr	mg/L			< 0.01				< 0.002				< 0.01				< 0.01			

Weeks	#	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Date		########	########	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		475	490	495	495	480	500	500	475	480	500	495	480	485	455	485	500	480	495
pH	Effluent (units)	7.45	7.40	7.39	7.49	7.51	7.40	7.26	7.32	7.43	7.38	7.45	7.35	7.39	7.34	7.48	7.39	7.44	7.66
Cond.	(umhos/cm)	16	17	17	17	17	16	15	15	16	14	15	16	16	14	15	15	16	26
ORP	mV	100	105	100	110	110	100	110	110	105	105	105	110	110	110	110	110	110	105
Sulphate	(mg/L)	1	1	1	< 1	1	1	2	2	1	2	1	1	< 1	1	< 1	1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	10	10	11	11	10	10	9	10	10	10	10	9	10	9	10	9	9	9
Total P	mg/L																		
TDP	mgP/L																		
Fluoride	mg/L	0.07				0.18				0.08				0.11				0.11	
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2	
TDS	mg/L	16				< 10				23				< 10				19	
Al	mg/L	0.054				0.032				0.037				0.041				0.05	
Sb	mg/L	< 0.001				< 0.001				0.0003				0.0002				< 0.001	
As	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Ba	mg/L	0.002				0.002				0.0019				0.0017				0.002	
Be	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Bi	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
B	mg/L	< 0.05				< 0.05				< 0.01				< 0.01				< 0.05	
Cd	mg/L	< 0.0002				< 0.0002				< 0.00004				< 0.00004				< 0.0002	
Ca	mg/L	3.13				3.04				3.19				2.8				2.46	
Cr	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Co	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Cu	mg/L	< 0.001				< 0.001				0.0007				0.0007				0.001	
Fe	mg/L	< 0.05				< 0.05				< 0.01				< 0.01				< 0.05	
Pb	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Li	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.005	
Mg	mg/L	0.06				0.1				0.06				0.05				0.05	
Mn	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	
Mo	mg/L	0.0006				0.0006				0.0007				0.0006				0.0007	
Ni	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
P	mg/L	< 0.15				< 0.15				< 0.03				< 0.03				< 0.15	
K	mg/L	0.2				0.2				0.21				0.18				0.2	
Se	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Si	mg/L	0.3				< 0.25				0.27				0.23				0.3	
Ag	mg/L	< 0.00025				< 0.00025				< 0.00005				< 0.00005				< 0.00025	
Na	mg/L	0.05				0.06				0.04				0.04				< 0.05	
Sr	mg/L	0.003				0.003				0.0028				0.0026				0.003	
Te	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Tl	mg/L	< 0.0001				< 0.0001				< 0.00002				< 0.00002				< 0.0001	
Th	mg/L	< 0.0005				< 0.0005				< 0.0001				< 0.0001				< 0.0005	
Sn	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Ti	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
U	mg/L	0.0007				0.0005				0.0004				0.0005				< 0.0005	
V	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Zn	mg/L	< 0.005				< 0.005				< 0.001				< 0.001				< 0.005	
Zr	mg/L	< 0.01				< 0.01				< 0.002				< 0.002				< 0.01	

Weeks	#	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153
Date		24-Jul-07	31-Jul-07	7-Aug-07	########	########	########	4-Sep-07	########	########	########	2-Oct-07	9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		480	490	495	490	495	490	505	490	495	460	455	495	485	485	490	500	485	475
pH	Effluent (units)	7.42	7.41	7.38	7.39	7.41	7.38	7.42	7.38	7.44	7.41	7.37	7.39	7.37	7.39	7.27	7.26	7.22	7.39
Cond.	(umhos/cm)	16	15	15	15	15	14	15	15	14	14	12	15	14	12	13	12	12	12
ORP	mV	110	150	150	155	140	145	150	135	140	130	130	120	120	110	100	110	110	120
Sulphate	(mg/L)	< 1	1	< 1	< 1	1	1	< 1	1	1	1	1	< 1	1	1	< 1	< 1	< 1	1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	10	9	9	9	9	9	9	9	8	8	8	9	9	9	9	8	8	8
Total P	mg/L																		
TDP	mgP/L																		
Fluoride	mg/L			0.08				0.11				0.1				0.08			
Chloride	mg/L			< 0.2				< 0.2				< 0.2				< 0.2			
TDS	mg/L			< 10				< 10				< 10				< 10			
Al	mg/L			0.038				0.035				0.29				0.057			
Sb	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Ba	mg/L			0.002				0.002				0.004				0.002			
Be	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L			< 0.05				< 0.05				< 0.05				< 0.05			
Cd	mg/L			< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L			2.71				2.45				2.3				2.43			
Cr	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Cu	mg/L			0.001				< 0.001				0.008				0.001			
Fe	mg/L			< 0.05				< 0.05				0.17				< 0.05			
Pb	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L			< 0.005				< 0.001				0.001				< 0.001			
Mg	mg/L			0.06				< 0.05				0.11				0.05			
Mn	mg/L			< 0.001				< 0.001				0.005				< 0.001			
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L			0.0007				0.0005				< 0.0005				< 0.0005			
Ni	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
P	mg/L			< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L			0.2				0.2				0.3				0.2			
Se	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L			0.3				< 0.25				0.6				< 0.25			
Ag	mg/L			< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L			< 0.05				< 0.05				0.09				< 0.05			
Sr	mg/L			0.003				0.002				0.003				0.002			
Te	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L			0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L			< 0.001				< 0.001				0.012				< 0.001			
U	mg/L			0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Zn	mg/L			< 0.005				< 0.005				< 0.005				< 0.005			
Zr	mg/L			< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171
Date		27-Nov-07	4-Dec-07	########	########	########	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	########	########	########	4-Mar-08	########	########	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		505	495	490	500	485	485	490	495	495	490	500	485	495	495	495	500	490	480
pH	Effluent (units)	7.26	7.10	7.27	7.26	7.22	7.26	7.27	7.29	7.26	7.17	7.19	7.19	7.20	7.16	7.20	7.21	7.19	7.22
Cond.	(umhos/cm)	11	10	13	11	11	12	11	12	12	11	10	11	11	11	12	12	12	11
ORP	mV	110	145	120	120	120	120	120	120	120	115	120	110	105	110	120	120	160	165
Sulphate	(mg/L)	< 1	< 1	1	1	< 1	< 1	2	< 1	1	1	< 1	1	< 1	1	< 1	< 1	1	1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	8	8	8	7	7	8	8	7	8	7	8	8	7	7	7	7	7	7
Total P	mg/L																	< 0.02	
TDP	mgP/L																	< 0.02	
Fluoride	mg/L	0.08				0.07				0.1				0.1				0.08	
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				0.35	
TDS	mg/L	< 10				17				< 10				17				14	CCME DL
Al	mg/L	0.05				0.049				0.045				0.026				0.043	0.022
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
As	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Ba	mg/L	0.002				0.002				0.001				0.001				0.002	0.0015
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
B	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.00004
Ca	mg/L	2.55				2.13				2.27				2.22				2.18	2.19
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Cu	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0007
Fe	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Li	mg/L	< 0.001				< 0.001				0.003				< 0.001				< 0.001	0.0004
Mg	mg/L	< 0.05				0.05				0.05				0.05				< 0.05	0.03
Mn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	0.0004
Ni	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15	< 0.03
K	mg/L	0.3				0.1				0.1				0.2				0.2	0.15
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Si	mg/L	0.3				< 0.25				< 0.25				2.1				< 0.25	0.21
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025	< 0.00005
Na	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	0.04
Sr	mg/L	0.003				0.002				0.002				0.002				0.002	0.0019
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	0.00003
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	0.0002
V	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Zn	mg/L	< 0.005				0.006				< 0.005				< 0.005				< 0.005	0.002
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.002

Weeks	#	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189
Date		1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		500	490	495	490	475	480	510	490	500	480	490	500	500	495	485	495	495	485
pH	Effluent (units)	7.26	7.29	7.29	7.29	7.21	7.28	7.23	7.26	7.21	7.21	7.22	7.18	7.13	7.19	7.17	7.20	7.10	7.06
Cond.	(umhos/cm)	10	10	11	10	10	10	9	12	12	10	12	13	14	12	16	12	12	12
ORP	mV	160	140	160	130	155	145	150	160	160	170	140	140	160	150	155	150	150	115
Sulphate	(mg/L)	1	1	< 1	< 1	< 1	< 1	< 1	< 1	2	1	< 1	< 1	1	< 1	1	< 1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	7	7	7	7	8	7	7	7	7	7	6	6	6	6	5	6	5	6
Total P	mg/L			< 0.02				< 0.02				0.02				< 0.02	< 0.02	< 0.02	< 0.02
TDP	mgP/L			-				< 0.02				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02
Fluoride	mg/L			0.07				0.1				0.06				0.05	0.05	0.06	< 0.05
Chloride	mg/L			< 0.2				< 0.2				0.57				2.49	1.14	0.96	1.21
TDS	mg/L			< 10	CCME DL			< 10	CCME DL			< 10	CCME DL			< 10	12	12	< 10
Al	mg/L			0.04	0.025			0.049	0.03			0.041	0.025			0.024	0.041	0.025	0.039
Sb	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
As	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Ba	mg/L			0.002	0.0013			0.001	0.0014			0.001	0.0014			0.0019	0.0016	0.0015	0.0016
Be	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Bi	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
B	mg/L			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01
Cd	mg/L			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004
Ca	mg/L			2.15	2.14			2.01	2.03			1.97	1.94			2.63	2	1.81	1.96
Cr	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Co	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Cu	mg/L			< 0.001	0.0004			< 0.001	0.0004			< 0.001	0.0007			0.0006	0.0005	0.0002	0.0003
Fe	mg/L			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01
Pb	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Li	mg/L			< 0.001	0.0005			< 0.001	0.0005			< 0.001	0.0002			0.0006	0.0003	0.0003	0.0003
Mg	mg/L			< 0.05	0.05			0.05	0.04			< 0.05	0.03			0.07	0.04	0.04	0.05
Mn	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hg	ug/L			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02
Mo	mg/L			< 0.0005	0.0004			< 0.0005	0.0004			< 0.0005	0.0004			0.0002	0.0003	0.0003	0.0003
Ni	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
P	mg/L			< 0.15	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03			< 0.03	< 0.03	< 0.03	< 0.03
K	mg/L			0.1	0.14			0.2	0.15			0.2	0.15			0.17	0.15	0.14	0.14
Se	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Si	mg/L			0.3	0.23			0.3	0.23			< 0.25	0.21			0.23	0.22	0.2	0.24
Ag	mg/L			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005
Na	mg/L			< 0.05	0.04			<0.05	0.04			< 0.05	0.04			0.04	0.04	0.05	0.04
Sr	mg/L			0.002	0.0021			0.002	0.0019			0.002	0.002			0.0028	0.0021	0.0019	0.0021
Te	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Tl	mg/L			< 0.0001	< 0.00002			< 0.0001	0.00002			< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002
Th	mg/L			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sn	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Ti	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
U	mg/L			< 0.0005	0.0002			< 0.0005	0.0002			< 0.0005	0.0001			< 0.0001	0.0001	0.0001	< 0.0001
V	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Zn	mg/L			< 0.005	0.001			< 0.005	0.002			< 0.005	< 0.001			< 0.001	< 0.001	0.001	0.006
Zr	mg/L			< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002

Weeks	#	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Date		5-Aug-08	########	########	########	2-Sep-08	9-Sep-08	########	########	########	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		475	480	500	485	495	480	485	480	495	500	500	500	500	500	500	500	485	500
pH	Effluent (units)	7.05	7.09	7.07	7.08	7.05	7.13	7.08	6.96	6.83	7.02	7.09	7.12	6.95	7.14	6.96	6.99	6.94	7.06
Cond.	(umhos/cm)	13	11	13	15	14	8	12	17	12	7	7	8	8	8	9	9	10	9
ORP	mV	130	150	140	135	130	130	140	140	145	140	140	135	140	130	160	150	160	160
Sulphate	(mg/L)	1	< 1	< 1	< 1	< 1	2	< 1	3	< 1	2	2	< 1	2	2	2	1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1
Alkalinity	(mg CaCO3/L)	6	5	5	5	5	5	6	5	5	5	6	6	5	6	6	5	5	5
Total P	mg/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
TDP	mgP/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Fluoride	mg/L	< 0.05				< 0.05				0.07				0.06				0.07	0.07
Chloride	mg/L	1.97				1.04				2.72				< 0.2				< 0.2	< 0.2
TDS	mg/L	< 10				18				< 10				< 10				11	24
Al	mg/L	0.021				0.04				0.014				0.028				0.039	0.028
Sb	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
As	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ba	mg/L	0.0018				0.0018				0.0031				0.0016				0.0033	0.0021
Be	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Bi	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
B	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Cd	mg/L	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004	< 0.00004
Ca	mg/L	2.28				2.01				2.38				1.7				1.61	1.6
Cr	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Co	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Cu	mg/L	0.0019				0.0008				0.0017				0.0034				0.0055	0.0044
Fe	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Pb	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Li	mg/L	0.0004				0.0003				0.0004				0.0002				0.0002	0.0003
Mg	mg/L	0.05				0.04				0.05				0.04				0.04	0.04
Mn	mg/L	0.0004				0.0003				0.0006				< 0.0002				0.0026	0.0005
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L	0.0003				0.0003				0.0002				0.0003				0.0003	0.0003
Ni	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
P	mg/L	< 0.03				< 0.03				< 0.03				< 0.03				< 0.03	< 0.03
K	mg/L	0.17				0.16				0.14				0.14				0.15	0.15
Se	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Si	mg/L	0.22				0.25				0.19				0.21				0.23	0.23
Ag	mg/L	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005	< 0.00005
Na	mg/L	0.04				0.04				0.03				0.04				0.05	0.05
Sr	mg/L	0.0023				0.002				0.0027				0.0018				0.0017	0.0016
Te	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Tl	mg/L	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002	< 0.00002
Th	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Sn	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ti	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
U	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
V	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Zn	mg/L	< 0.001				0.001				0.002				0.002				0.006	0.002
Zr	mg/L	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002	< 0.002

Humidity Cell Sample Data

HC 20 - Granite
04-ARD-120-016
04-ARD-120-017
04-ARD-120-018

S-Total:	0.02	%
S^{2-}:	0.02	%
NP:	7.17	t $CaCO_3$/1000 t
CaNP:	2.12	t $CaCO_3$/1000 t
AP:	0.61	t $CaCO_3$/1000 t

Weeks	#	0	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
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05	3-May-05	10-May-05	17-May-05	24-May-05	31-May-05	7-Jun-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		530	410	375	405	415	360	350	420	365	465	405	470	410	475	455	410	500	480	480	485	475	490	440	490	500	480
pH	Effluent (units)	7.70	8.08	7.56	7.55	7.60	7.88	8.04	7.98	7.00	7.50	7.83	8.02	7.80	7.91	7.96	7.83	7.79	7.78	7.99	7.95	7.89	7.76	7.86	7.42	7.69	7.36
Cond.	(umhos/cm)	42	53	44	42	39	25	24	31	36	40	29	33	31	37	31	21	27	28	27	23	33	28	22	31	26	26
ORP	mV	200	155	120	95	100	95	120	125	115	170	140	130	150	145	155	135	150	150	160	180	115	140	130	170	180	185
Sulphate	(mg/L)	3	4	2	3	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	1	6	< 1	< 1	< 1	< 1	< 1	< 1
Acidity	(mg CaCO3/L)	< 2	2	2	2	2	1	1	1	2	1	1	< 1	1	1	1	1	1	1	1	1	2	2	2	2	1	1
Alkalinity	(mg CaCO3/L)	9	15	13	13	11	8	8	11	4	15	10	13	12	13	12	10	12	13	11	11	11	12	10	12	11	10
Total P	mg/L																										
TDP	mgP/L																										
Fluoride	mg/L																										
Chloride	mg/L																										
TDS	mg/L																										
Al	mg/L	0.067		0.16		0.088		0.11		0.1		0.1		0.092		0.082		0.072		0.075		0.09		0.09		0.093	
Sb	mg/L	0.003		0.005		0.0045		0.003		0.002		0.003		0.003		0.002		0.002		0.002		0.002		0.002		0.002	
As	mg/L	0.003		0.002		0.0014		0.001		0.002		0.001		0.001		0.001		0.001		0.003		0.001		0.002		0.001	
Ba	mg/L	0.003		0.003		0.0024		0.002		0.001		0.002		0.002		0.002		0.002		0.002		0.003		0.002		0.002	
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05	
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002	
Ca	mg/L	3.38		4.65		4.61		3.19		3.19		4.02		4.48		5.15		4.98		4.44		4.42		4.53		4.76	
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Cu	mg/L	0.002		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001	
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.07		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05	
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Li	mg/L	0.002		0.002		0.0016		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Mg	mg/L	0.28		0.48		0.34		0.23		0.17		0.18		0.15		0.14		0.13		0.11		0.10		0.09		0.10	
Mn	mg/L	0.005		0.057		0.047		0.016		0.013		0.026		0.025		0.028		0.029		0.023		0.024		0.021		0.022	
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02	
Mo	mg/L	0.011		0.0059		0.0033		0.0022		0.0013		0.0009		0.0009		0.0006		0.0006		< 0.0005		< 0.0005		< 0.0005		< 0.0005	
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15	
K	mg/L	2.9		1.9		1.29		1		0.7		0.6		0.7		0.5		0.5		0.4		0.4		0.4		0.4	
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Si	mg/L	1.4		2		1.33		1.3		0.8		1.2		1.4		1.6		1.2		1.5		1.6		1.2		1.5	
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025	
Na	mg/L	2.6		1.85		0.71		0.45		0.22		0.19		0.16		0.13		< 0.05		0.13		0.11		0.10		0.08	
Sr	mg/L	0.019		0.027		0.024		0.017		0.014		0.015		0.016		0.016		0.016		0.014		0.013		0.012		0.013	
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001	
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005	
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
U	mg/L	< 0.0005		0.0009		0.0012		0.0009		0.001		0.0009		0.0011		0.001		0.0008		0.0006		0.0006		< 0.0005		0.0006	
V	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		0.013		< 0.005		< 0.005		< 0.005		< 0.005	
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	

Weeks	#	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
Date		14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05	30-Aug-05	6-Sep-05	13-Sep-05	20-Sep-05	27-Sep-05	4-Oct-05	11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05	29-Nov-05	6-Dec-05	########	########	########	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	########	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		480	425	485	500	485	490	480	470	470	475	485	480	470	475	475	440	480	490	490	495	485	480	490	495	490	495	485	495	470	450	370	435	475	490	485	485	495
pH	Effluent (units)	7.18	7.33	7.49	7.50	6.91	7.45	7.05	7.20	7.39	7.42	7.03	7.17	7.60	7.43	7.62	7.58	7.47	7.73	7.55	7.71	7.61	7.64	7.45	7.58	7.50	7.46	7.46	7.53	7.44	7.58	7.56	7.63	7.85	7.63	7.41	7.55	7.54
Cond.	(umhos/cm)	27	21	27	28	29	30	24	22	29	27	28	32	28	27	26	22	28	27	25	26	22	23	27	25	25	26	25	22	24	18	23	18	29	30	23	25	25
ORP	mV	215	130	195	220	195	135	170	170	130	145	160	145	190	190	140	140	160	200	165	155	140	190	180	170	160	165	165	160	165	210	210	190	200	150	170	220	160
Sulphate	(mg/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	< 1	< 1	< 1	< 1	1	1	2	< 1	2	1	1	< 1	1	< 1	2	< 1	1	1	1	< 1
Acidity	(mg CaCO3/L)	2	< 1	2	1	3	1	3	5	2	2	3	2	1	1	1	< 1	1	1	1	1	1	1	1	2	1	< 1	2	2	5	2	2	1	2	1	2	< 1	1
Alkalinity	(mg CaCO3/L)	12	7	11	10	11	11	10	9	12	11	12	12	12	12	12	9	12	12	11	11	11	11	10	9	11	11	11	10	10	7	9	6	8	11	10	10	9
Total P	mg/L																																					
TDP	mgP/L																																					
Fluoride	mg/L																	0.55				0.61				0.58				0.60				0.50				0.53
Chloride	mg/L																	0.4				0.4				<0.2				<0.2				<0.2				0.3
TDS	mg/L																	19				14				17				21				14				<5
Al	mg/L	0.088		0.099		0.12		0.085		0.093		0.098		0.088				0.075				0.082				0.073				0.054				0.050				0.046
Sb	mg/L	0.002		0.002		0.002		0.001		0.002		0.002		0.002				0.001				0.001				0.0013				0.001				< 0.001				0.001
As	mg/L	0.002		0.001		0.001		0.001		0.001		0.001		< 0.001				< 0.001				< 0.001				0.0009				< 0.001				< 0.001				< 0.001
Ba	mg/L	0.002		0.002		0.002		0.002		0.002		0.002		0.002				0.002				0.002				0.0018				0.002				0.001				0.002
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05				< 0.01				< 0.05				< 0.05				< 0.05
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002				< 0.0002				< 0.00004				< 0.0002				< 0.0002				< 0.0002
Ca	mg/L	4.49		4.58		4.83		3.86		4.56		4.63		4.42				4.25				4.50				4.30				3.99				3.46				3.73
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0003				< 0.001				< 0.001				< 0.001
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05				< 0.01				< 0.05				< 0.05				< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Li	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				0.0002				< 0.001				< 0.001				< 0.001
Mg	mg/L	0.09		0.09		0.08		0.05		0.06		0.06		0.06				0.05				0.05				0.05				0.06				< 0.05				< 0.05
Mn	mg/L	0.019		0.014		0.013		0.008		0.007		0.005		0.004				0.002				0.001				0.001				< 0.001				< 0.001				< 0.001
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		0.0005		0.0006		0.0007				0.001				0.0012				0.0011				0.0012				0.0011				0.0011
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15				< 0.15				< 0.15				< 0.03				< 0.15				< 0.15				< 0.15
K	mg/L	0.5		0.5		0.4		0.3		0.3		0.3		0.4				0.2				0.3				0.26				0.3				0.2				0.4
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Si	mg/L	1.8		1.8		1.7		1		1.3		1.1		1.3				1.1				0.6				0.5				1.2				0.5				0.6
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025				< 0.00025				< 0.00005				< 0.00025				< 0.00025				< 0.00025
Na	mg/L	0.10		0.11		0.07		0.07		0.08		< 0.05		< 0.05				< 0.05				0.06				0.18				< 0.05				0.19				0.24
Sr	mg/L	0.011		0.011		0.011		0.009		0.009		0.009		0.009				0.008				0.007				0.0063				0.006				0.005				0.005
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001				< 0.0001				< 0.00002				< 0.0001				< 0.0001				< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
U	mg/L	0.0006		0.0005		0.0006		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005				0.0002				< 0.0005				< 0.0005				< 0.0005
V	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005				< 0.005				< 0.005				< 0.001				< 0.005				< 0.005				< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01				< 0.01				< 0.002				< 0.01				< 0.01				< 0.01

Weeks	#	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
Date		########	7-Mar-06	########	########	########	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	########	########	########	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	########	########	########	5-Sep-06	########	########	########	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		450	490	475	500	490	495	495	440	495	485	495	450	445	420	500	465	470	500	485	495	470	500	490	475	485	495	480	400	455	440	480	480	480	480	455	480	475
pH	Effluent (units)	7.85	7.60	7.18	7.20	7.44	7.46	7.46	7.27	7.51	7.57	7.30	7.29	7.43	7.49	7.46	7.48	7.41	7.49	7.46	7.49	7.40	7.45	7.51	7.39	7.35	7.21	7.34	7.19	7.38	7.46	7.32	7.27	7.25	7.58	7.38	7.38	7.37
Cond.	(umhos/cm)	22	22	22	17	20	23	17	15	18	18	18	14	16	12	22	20	14	14	12	13	13	13	14	14	14	13	13	10	14	14	11	15	12	13	13	11	12
ORP	mV	160	170	175	150	125	140	190	155	155	110	170	135	160	175	160	135	155	155	190	170	165	175	160	145	150	160	140	125	130	140	130	130	120	120	115	120	120
Sulphate	(mg/L)	1	1	< 1	1	< 1	< 1	1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	< 1	1	1	< 1	< 1	1	1	1	< 1	< 1	< 1	1	< 1	< 1	< 1	1	1	< 1
Acidity	(mg CaCO3/L)	1	1	1	2	1	1	2	1	1	< 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
Alkalinity	(mg CaCO3/L)	9	9	9	8	8	9	8	7	9	9	8	6	6	6	8	7	9	8	9	8	8	9	8	7	8	8	8	7	5	6	8	7	8	7	8	6	6
Total P	mg/L																																					
TDP	mgP/L																																					
Fluoride	mg/L				0.45				0.54				0.54				0.51				0.52				0.55				0.54				0.54				0.50	
Chloride	mg/L				0.3				0.5				<0.2				<0.2				<0.2				<0.2				<0.2				<0.2				0.4	
TDS	mg/L				17				20				8				4				16				<1				2				15				25	
Al	mg/L				0.073				0.11				0.075				0.061				0.059				0.059				0.069				0.042				0.045	
Sb	mg/L				0.001				< 0.001				<0.001				0.001				0.001				0.001				< 0.001				< 0.001				<0.001	
As	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Ba	mg/L				0.002				0.001				0.001				0.001				0.001				0.001				0.002				0.001				0.001	
Be	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Bi	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
B	mg/L				< 0.05				< 0.05				<0.05				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Cd	mg/L				< 0.0002				< 0.0002				<0.0002				< 0.0002				<0.0002				<0.0002				< 0.0002				< 0.0002				<0.0002	
Ca	mg/L				3.48				2.54				2.73				3.15				2.96				2.78				1.99				2.62				2.53	
Cr	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Co	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Cu	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Fe	mg/L				< 0.05				< 0.05				<0.05				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Pb	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Li	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Mg	mg/L				< 0.05				< 0.05				<0.05				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Mn	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Hg	ug/L				< 0.02				< 0.02				<0.02				< 0.02				<0.02				<0.02				< 0.02				< 0.02				<0.02	
Mo	mg/L				0.0011				0.0009				0.001				0.0011				0.0009				0.0009				0.001				0.0007				0.0008	
Ni	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				0.002	
P	mg/L				< 0.15				< 0.15				<0.15				< 0.15				<0.15				<0.15				< 0.15				< 0.15				<0.15	
K	mg/L				0.2				0.2				0.2				0.2				0.2				0.2				< 0.1				< 0.1				0.2	
Se	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Si	mg/L				0.5				0.6				0.6				0.5				0.4				0.5				0.4				0.3				0.4	
Ag	mg/L				< 0.00025				< 0.00025				<0.00025				< 0.00025				<0.00025				<0.00025				< 0.00025				< 0.00025				<0.00025	
Na	mg/L				0.06				0.07				<0.05				< 0.05				<0.05				<0.05				< 0.05				< 0.05				<0.05	
Sr	mg/L				0.004				0.003				0.003				0.004				0.003				0.004				0.04				0.003				0.003	
Te	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Tl	mg/L				< 0.0001				< 0.0001				<0.0001				< 0.0001				<0.0001				<0.0001				< 0.0001				< 0.0001				<0.0001	
Th	mg/L				< 0.0005				< 0.0005				<0.0005				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005	
Sn	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Ti	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
U	mg/L				< 0.0005				< 0.0005				<0.0005				< 0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005	
V	mg/L				< 0.001				< 0.001				<0.001				< 0.001				<0.001				<0.001				< 0.001				< 0.001				<0.001	
Zn	mg/L				< 0.005				< 0.005				<0.005				< 0.005				<0.005				<0.005				< 0.005				< 0.005				<0.005	
Zr	mg/L				< 0.01				< 0.01				<0.01				< 0.01				<0.01				<0.01				< 0.01				< 0.01				<0.01	

Humidity Cell Sample Data

HC 20 - Granite

04-ARD-120-016
04-ARD-120-017
04-ARD-120-018

Weeks	#	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Date		14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	########	########	########	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	########	########	########	6-Mar-07	########	########	########	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	445	475	485	470	460	490	420	405	460	470	430	480	450	495	465	490	460	485	485	485	500	475	480	480	490	470	495	495	495	480	485	480	500	495	495
pH	Effluent (units)	7.29	7.28	7.12	7.21	7.22	7.22	7.18	7.15	7.27	7.15	7.14	7.28	7.19	7.20	7.20	7.22	7.20	7.26	7.17	7.16	7.08	7.21	7.24	7.06	7.09	7.05	7.16	7.05	7.11	7.04	7.05	7.08	7.12	7.10	7.17	7.15
Cond.	(umhos/cm)	13	11	13	12	11	11	9	10	9	10	10	10	11	11	11	12	11	11	11	11	11	11	10	10	9	10	11	9	10	10	10	10	9	10	10	11
ORP	mV	115	115	120	115	105	110	125	100	100	100	105	100	100	105	100	110	110	115	110	115	110	100	105	100	105	110	105	110	100	105	100	115	110	105	105	110
Sulphate	(mg/L)	1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	2	1	< 1	2	1	1	2	1	2	1	2	1	2	1	1	1	1	1	2	1	2	1	1	< 1	< 1	< 1	< 1
Acidity	(mg CaCO3/L)	1	1	1	1	1	< 1	1	1	1	1	1	< 1	1	< 1	1	< 1	< 1	< 1	< 1	1	1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	8	7	7	8	7	7	7	6	6	7	6	6	7	7	8	7	7	7	6	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	5	6
Total P	mg/L																																				
TDP	mgP/L																																				
Fluoride	mg/L			0.46				0.37				0.4				0.42				0.37				0.38				0.37				0.4				0.46	
Chloride	mg/L			0.3				<0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2	
TDS	mg/L			<1				12				< 10				18				20				< 10				48				41				< 10	
Al	mg/L			0.044				0.029				0.04				0.028				0.036				0.027				0.027				0.026				0.063	
Sb	mg/L			< 0.001				0.0006				< 0.001				< 0.001				< 0.001				< 0.001				0.001				0.0008				< 0.001	
As	mg/L			< 0.001				0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				0.0003				< 0.001	
Ba	mg/L			< 0.001				0.0011				0.002				0.001				< 0.001				0.001				0.0012				0.0009				0.001	
Be	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Bi	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
B	mg/L			< 0.05				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.01				< 0.01				< 0.05	
Cd	mg/L			< 0.0002				< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.00004				< 0.00004				< 0.0002	
Ca	mg/L			2.41				1.94				2.1				2.23				2.09				1.97				1.8				1.75				1.44	
Cr	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Co	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Cu	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				0.0004				0.0006				< 0.001	
Fe	mg/L			< 0.05				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05				< 0.01				< 0.01				< 0.05	
Pb	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Li	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.005	
Mg	mg/L			< 0.05				0.03				< 0.05				< 0.05				< 0.05				0.1				0.03				0.02				< 0.05	
Mn	mg/L			< 0.001				0.0003				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				0.0002				< 0.001	
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	
Mo	mg/L			< 0.0005				0.0004				0.0005				0.0006				0.0005				0.0006				0.0006				0.0005				< 0.0005	
Ni	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
P	mg/L			< 0.15				< 0.03				< 0.15				< 0.15				< 0.15				< 0.15				< 0.03				< 0.03				< 0.15	
K	mg/L			0.1				0.13				0.2				0.2				0.2				0.2				0.15				0.13				0.1	
Se	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Si	mg/L			0.4				0.29				0.3				0.3				0.4				0.3				0.32				0.27				0.3	
Ag	mg/L			< 0.00025				< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00005				< 0.00005				< 0.00025	
Na	mg/L			< 0.05				0.03				< 0.05				0.3				< 0.05				0.09				0.03				0.04				< 0.05	
Sr	mg/L			0.003				0.0075				0.002				0.002				0.002				0.003				0.002				0.0018				0.002	
Te	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Tl	mg/L			< 0.0001				< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.00002				< 0.00002				< 0.0001	
Th	mg/L			< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0001				< 0.0005	
Sn	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Ti	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
U	mg/L			< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001				< 0.0001				< 0.0005	
V	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Zn	mg/L			< 0.005				< 0.001				< 0.005				< 0.005				< 0.005				< 0.005				< 0.001				< 0.001				< 0.005	
Zr	mg/L			< 0.01				< 0.002				< 0.01				< 0.01				< 0.01				< 0.01				< 0.002				< 0.002				< 0.01	

Weeks	#	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171
Date		24-Jul-07	31-Jul-07	7-Aug-07	########	########	########	4-Sep-07	########	########	########	2-Oct-07	9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	########	########	########	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	########	########	########	4-Mar-08	########	########	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	490	505	490	495	500	500	475	490	480	470	475	490	490	495	500	490	485	495	500	490	500	495	485	480	500	495	495	490	490	500	490	490	495	495	485
pH	Effluent (units)	7.09	7.14	7.04	7.10	7.07	7.06	7.09	7.13	7.00	7.02	7.00	7.04	7.07	7.06	7.01	6.90	6.91	7.04	6.89	6.86	6.95	6.88	6.92	6.92	6.93	6.92	6.91	6.90	6.84	6.83	6.86	6.88	6.86	6.86	6.88	6.85
Cond.	(umhos/cm)	10	10	10	10	10	9	9	10	9	10	9	9	9	8	8	8	8	7	7	7	9	8	8	8	8	8	8	8	8	8	8	8	9	8	8	8
ORP	mV	120	145	150	160	145	140	150	145	130	130	135	120	120	120	120	120	115	120	120	145	120	120	120	110	120	120	110	110	110	110	110	115	120	130	150	170
Sulphate	(mg/L)	2	2	< 1	1	1	1	1	1	1	1	< 1	< 1	2	1	< 1	1	1	1	1	< 1	1	1	2	1	2	1	2	1	2	1	1	1	< 1	1	1	1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	5	5	6	5	5	5	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	5	4	5	5	4	4	4	4
Total P	mg/L																																			0.02	
TDP	mgP/L																																			< 0.02	
Fluoride	mg/L			0.37				0.43				0.44				0.35				0.37				0.38				0.36				0.38				0.36	
Chloride	mg/L			< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				0.36	
TDS	mg/L			< 10				30				< 10				< 10				13				< 10				< 10				24				23	CCME DL
Al	mg/L			0.036				0.016				0.039				0.029				0.064				0.068				0.033				0.021				0.022	0.021
Sb	mg/L			0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0008
As	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Ba	mg/L			0.001				0.001				0.001				0.001				0.002				0.002				< 0.001				0.001				< 0.001	0.0013
Be	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Bi	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
B	mg/L			< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01
Cd	mg/L			< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.00004
Ca	mg/L			1.82				1.56				1.62				1.55				1.66				1.48				1.52				1.39				1.36	1.42
Cr	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0002
Co	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Cu	mg/L			0.001				< 0.001				0.001				< 0.001				0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0009
Fe	mg/L			< 0.05				< 0.05				< 0.05				< 0.05				0.06				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01
Pb	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Li	mg/L			< 0.005				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.004				< 0.001				< 0.001	0.0003
Mg	mg/L			< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	0.03
Mn	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0006
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L			0.0006				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	0.0003
Ni	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
P	mg/L			< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15	< 0.03
K	mg/L			0.2				0.1				0.1				0.1				0.2				0.1				< 0.1				0.1				0.1	0.11
Se	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Si	mg/L			0.4				0.3				0.3				0.3				0.3				0.3				0.3				2.1				< 0.25	0.23
Ag	mg/L			< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025	< 0.00005
Na	mg/L			< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				0.05				< 0.05				< 0.05				< 0.05	0.05
Sr	mg/L			0.002				0.002				0.002				0.002				0.002				0.002				0.002				0.002				0.002	0.0017
Te	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Tl	mg/L			< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	0.00002
Th	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001
Sn	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Ti	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				0.004				0.003				< 0.001				< 0.001				< 0.001	< 0.0002
U	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001
V	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Zn	mg/L			< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005	0.003
Zr	mg/L			< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.002

Weeks	#	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Date		1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	########	########	########	2-Sep-08	9-Sep-08	########	########	########	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		500	490	495	490	485	485	505	495	490	485	495	495	505	495	490	495	500	490	485	490	495	495	495	495	485	480	500	490	490	495	500	490	495	500	490	500
pH	Effluent (units)	6.88	6.92	6.89	6.79	6.86	6.89	6.84	6.86	6.88	6.80	6.87	6.79	6.73	6.77	6.70	6.90	6.74	6.87	6.89	6.69	6.65	6.70	6.78	6.74	6.83	6.75	6.60	6.53	6.58	6.66	6.60	6.73	6.64	6.65	6.67	6.70
Cond.	(umhos/cm)	7	7	7	7	7	7	6	8	8	7	9	9	9	8	10	9	8	8	9	8	9	9	8	5	7	11	7	8	9	6	6	6	7	7	7	7
ORP	mV	170	155	150	140	145	150	150	140	140	160	140	160	160	145	155	160	165	145	135	155	130	130	135	130	135	135	130	130	130	125	125	125	140	140	145	155
Sulphate	(mg/L)	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	1	1	1	2	2	1	1	< 1	< 1	< 1	< 1	1	1	1	1	< 1	2	2	< 1	2	< 1	1	< 1	2	1	< 1	1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	< 1	1	1	< 1	1	< 1	< 1	< 1	< 1	< 1	1
Alkalinity	(mg CaCO3/L)	4	4	5	4	5	4	3	4	4	4	4	3	4	4	3	4	4	3	4	4	3	4	3	3	3	4	3	4	3	4	3	4	4	4	4	3
Total P	mg/L			0.04				< 0.02				0.07				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				0.02				0.03				< 0.02	0.02
TDP	mgP/L			< 0.02				< 0.02				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Fluoride	mg/L			0.36				0.4				0.29				0.24	0.35	0.39	0.25	0.35				0.4				0.32				0.28				0.42	0.45
Chloride	mg/L			0.26				< 0.2				0.79				1.53	0.86	0.49	0.6	1.05				0.44				1.19				0.21				< 0.2	< 0.2
TDS	mg/L			< 10	CCME DL			< 10	CCME DL			< 10	CCME DL			< 10	30	< 10	< 10	< 10				65				< 10				< 10				< 10	10
Al	mg/L			0.021	0.019			0.022	0.021			0.028	0.023			0.012	0.022	0.016	0.023	0.015				0.018				0.018				0.015				0.021	0.02
Sb	mg/L			< 0.001	0.0009			< 0.001	0.0009			< 0.001	0.0009			0.0008	0.0009	0.001	0.001	0.001				0.0011				0.0009				0.001				0.001	0.001
As	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ba	mg/L			0.001	0.0011			0.001	0.001			0.001	0.0015			0.0015	0.0016	0.0013	0.0014	0.0015				0.0013				0.0035				0.0013				0.0012	0.0012
Be	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Bi	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
B	mg/L			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Cd	mg/L			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004	< 0.00004
Ca	mg/L			1.4	1.36			1.26	1.31			1.39	1.41			1.77	1.36	1.19	1.26	1.48				1.26				1.46				1.1				1.15	1.13
Cr	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Co	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Cu	mg/L			< 0.001	0.0004			< 0.001	0.001			< 0.001	0.0016			0.0019	0.0012	0.0004	0.0005	0.0021				0.0004				0.0025				0.0029				0.004	0.0026
Fe	mg/L			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Pb	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				0.0002				0.0002				0.0003	0.0002
Li	mg/L			< 0.001	0.0004			< 0.001	0.0002			< 0.001	< 0.0002			0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	0.0003
Mg	mg/L			< 0.05	0.02			< 0.05	0.02			< 0.05	0.03			0.03	0.02	0.02	0.02	0.03				0.02				0.02				0.02				0.02	0.02
Mn	mg/L			< 0.001	0.0008			< 0.001	0.0006			0.002	0.0019			0.0017	0.0027	0.0024	0.0026	0.0036				0.0027				0.0038				0.003				0.0033	0.0027
Hg	ug/L			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L			< 0.0005	0.0003			< 0.0005	0.0003			< 0.0005	0.0003			< 0.0001	0.0002	0.0002	0.0002	< 0.0001				0.0002				0.0002				< 0.0001				0.0002	0.0002
Ni	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				0.0002				< 0.0002				< 0.0002	< 0.0002
P	mg/L			< 0.15	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03				< 0.03				< 0.03				< 0.03				< 0.03	< 0.03
K	mg/L			< 0.1	0.11			0.1	0.1			0.1	0.11			0.12	0.11	0.1	0.1	0.13				0.11				0.1				0.09				0.11	0.11
Se	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Si	mg/L			0.3	0.27			0.3	0.26			0.3	0.24			0.26	0.24	0.23	0.27	0.24				0.25				0.23				0.23				0.21	0.27
Ag	mg/L			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005	< 0.00005
Na	mg/L			< 0.05	0.04			<0.05	0.04			< 0.05	0.04			0.05	0.03	0.05	0.04	0.04				0.03				0.03				0.04				0.04	0.05
Sr	mg/L			0.002	0.0016			0.001	0.0015			0.002	0.0017			0.0021	0.0016	0.0014	0.0014	0.0017				0.0015				0.0019				0.0013				0.0012	0.0014
Te	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Tl	mg/L			< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002	< 0.00002
Th	mg/L			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Sn	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ti	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				0.0006				< 0.0002				< 0.0002	< 0.0002
U	mg/L			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
V	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Zn	mg/L			< 0.005	< 0.001			< 0.005	0.001			< 0.005	0.002			0.002	< 0.001	0.002	0.001	0.002				< 0.001				0.003				0.001				0.001	< 0.001
Zr	mg/L			< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002	< 0.002

Humidity Cell Sample Data

HC 21 - Diabase

S-Total:	0.09	%
S^{2-}:	0.08	%
NP:	11.30	t $CaCO_3$/1000 t
CaNP:	2.27	t $CaCO_3$/1000 t
AP:	2.50	t $CaCO_3$/1000 t

Weeks	#	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Date		14-Dec-04	21-Dec-04	28-Dec-04	4-Jan-05	11-Jan-05	18-Jan-05	25-Jan-05	1-Feb-05	8-Feb-05	15-Feb-05	22-Feb-05	1-Mar-05	8-Mar-05	15-Mar-05	22-Mar-05	29-Mar-05	5-Apr-05	12-Apr-05	19-Apr-05	26-Apr-05
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		650	480	470	410	450	425	495	400	420	410	460	440	405	465	470	480	490	495	490	480
pH	Effluent (units)	8.41	7.35	7.47	8.00	7.94	7.66	7.64	8.22	7.71	7.46	7.80	7.85	7.90	7.83	7.85	7.25	7.88	7.80	7.98	7.69
Cond.	(umhos/cm)	241	161	131	90	110	75	100	58	61	59	63	49	40	53	49	35	37	38	35	30
ORP	mV	220	130	135	105	105	110	135	100	90	170	160	140	140	160	155	140	150	160	190	180
Sulphate	(mg/L)	82	55	40	27	33	22	25	16	13	14	14	11	8	9	8	7	6	6	7	7
Acidity	(mg CaCO3/L)		2	2	2	2	1	1	< 1	< 1	1	1	< 1	1	1	1	2	1	2	2	1
Alkalinity	(mg CaCO3/L)	11	16	14	11	12	10	14	9	9	9	10	10	8	11	10	10	10	10	9	8
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L																				
Chloride	mg/L																				
TDS	mg/L																				
Al	mg/L	0.098		0.12		0.087		0.082		0.098		0.088		0.11		0.088		0.083		0.082	
Sb	mg/L	0.002		0.002		0.0013		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
As	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002	
Ba	mg/L	0.017		0.012		0.008		0.01		0.005		0.006		0.004		0.004		0.004		0.004	
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
B	mg/L	0.12		0.14		0.08		0.07		< 0.05		0.05		< 0.05		< 0.05		< 0.05		< 0.05	
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002	
Ca	mg/L	29.5		16.4		13.3		12.2		6.46		7.55		4.5		5.95		5.14		4.32	
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.09		< 0.05		< 0.05		< 0.05	
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Li	mg/L	0.002		0.002		0.0013		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Mg	mg/L	1.69		2.43		1.59		1.32		0.74		0.93		0.49		0.7		0.65		0.59	
Mn	mg/L	0.007		0.012		0.0084		0.008		0.003		0.005		0.003		0.004		0.006		0.005	
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02	
Mo	mg/L	0.0024		0.0016		0.001		0.0007		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005	
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15	
K	mg/L	4.6		3		2		1.7		1.1		1.3		1		0.9		0.8		0.6	
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001	
Si	mg/L	2.7		3		2.16		2.3		1.3		1.9		1.6		1.8		1.6		1.7	
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025	
Na	mg/L	4.08		2.52		1.06		0.87		0.49		0.56		0.33		0.36		0.05		0.27	
Sr	mg/L	0.29		0.21		0.189		0.19		0.11		0.13		0.079		0.1		0.094		0.084	
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001	
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005	
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Ti	mg/L	< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005	
V	mg/L	0.003		0.004		0.0035		0.003		0.003		0.003		0.003		0.002		0.002		0.002	
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		0.041		< 0.005		< 0.005	
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	

Weeks	#	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Date		3-May-05	10-May-05	17-May-05	24-May-05	31-May-05	7-Jun-05	14-Jun-05	21-Jun-05	28-Jun-05	5-Jul-05	12-Jul-05	19-Jul-05	26-Jul-05	2-Aug-05	9-Aug-05	16-Aug-05	23-Aug-05	30-Aug-05	6-Sep-05	13-Sep-05
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		470	490	470	505	490	480	490	475	485	505	460	510	470	485	450	495	475	475	485	495
pH	Effluent (units)	7.76	7.72	7.89	7.32	7.81	7.14	7.07	7.02	7.39	7.43	6.81	7.36	7.15	7.33	7.33	7.47	6.95	6.93	7.31	7.32
Cond.	(umhos/cm)	39	32	28	32	27	27	25	28	25	29	27	28	23	27	26	23	23	27	21	22
ORP	mV	120	130	130	170	180	175	200	140	185	220	205	185	180	180	140	150	150	140	190	190
Sulphate	(mg/L)	4	6	5	3	4	1	3	4	4	4	4	3	3	< 1	3	3	2	3	3	2
Acidity	(mg CaCO3/L)	2	2	2	2	1	2	2	1	1	1	3	2	3	4	3	2	3	3	3	2
Alkalinity	(mg CaCO3/L)	8	7	8	8	7	7	7	7	7	7	7	7	6	8	7	7	7	7	7	7
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L																				
Chloride	mg/L																				
TDS	mg/L																				
Al	mg/L	0.087		0.087		0.097		0.093		0.1		0.11		0.092		0.094		0.099		0.078	
Sb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
As	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Ba	mg/L	0.004		0.004		0.003		0.003		0.003		0.003		0.003		0.003		0.003		0.003	
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
B	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05	
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002	
Ca	mg/L	4.07		4.34		3.78		3.17		3.03		3.22		2.59		2.80		2.66		2.41	
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05	
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Li	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Mg	mg/L	0.56		0.56		0.56		0.49		0.53		0.53		0.38		0.43		0.38		0.38	
Mn	mg/L	0.006		0.006		0.006		0.005		0.005		0.005		0.003		0.004		0.004		0.004	
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02	
Mo	mg/L	< 0.0005		< 0.0005		< 0.0005		0.0005		0.0005		0.0007		0.0006		0.0007		0.0006		0.0006	
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
P	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15	
K	mg/L	0.5		0.7		0.6		0.6		0.6		0.6		0.4		0.5		0.4		0.5	
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Si	mg/L	1.8		1.6		1.7		1.9		1.9		2		1.1		1.4		1.0		1.3	
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025	
Na	mg/L	0.23		0.23		0.21		0.2		0.27		0.19		0.15		0.18		< 0.05		0.12	
Sr	mg/L	0.079		0.083		0.071		0.063		0.058		0.062		0.052		0.057		0.052		0.047	
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001	
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005	
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005	
V	mg/L	0.001		0.001		0.001		0.001		0.001		0.001		0.001		0.001		0.001		0.001	
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005	
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01	

Weeks	#	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
Date		20-Sep-05	27-Sep-05	4-Oct-05	11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05	29-Nov-05	6-Dec-05	########	########	########	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		485	425	490	495	450	490	480	480	485	505	480	475	490	470	455	500	480	500	495	475
pH	Effluent (units)	7.44	7.27	7.13	7.63	7.42	7.48	7.61	7.28	7.21	7.67	7.38	7.35	7.20	7.35	7.26	7.32	7.61	6.89	7.60	7.31
Cond.	(umhos/cm)	20	19	22	22	18	20	16	17	18	18	17	17	17	12	16	15	14	15	15	21
ORP	mV	140	140	175	205	165	150	150	165	200	170	165	165	170	165	165	190	170	165	155	130
Sulphate	(mg/L)	3	3	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	3	2	2
Acidity	(mg CaCO3/L)	1	1	1	1	1	< 1	1	1	2	1	< 1	< 1	2	< 1	4	2	3	3	2	1
Alkalinity	(mg CaCO3/L)	7	5	7	8	6	7	7	7	5	6	7	6	5	5	5	5	5	5	5	6
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L			<0.1				<0.1				<0.1				<0.1				0.02	
Chloride	mg/L			0.37				0.4				<0.2				1				<0.2	
TDS	mg/L			16				10				<10				20				9	
Al	mg/L			0.066				0.078				0.071				0.049				0.048	
Sb	mg/L			< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001	
As	mg/L			< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001	
Ba	mg/L			0.002				0.003				0.0024				0.003				0.002	
Be	mg/L			< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001	
Bi	mg/L			< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001	
B	mg/L			< 0.05				< 0.05				0.01				< 0.05				< 0.05	
Cd	mg/L			< 0.0002				< 0.0002				< 0.00004				< 0.0002				< 0.0002	
Ca	mg/L			2.39				2.38				2.15				1.78				1.72	
Cr	mg/L			< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001	
Co	mg/L			< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001	
Cu	mg/L			0.001				< 0.001				0.0002				< 0.001				< 0.001	
Fe	mg/L			< 0.05				< 0.05				< 0.01				< 0.05				< 0.05	
Pb	mg/L			< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001	
Li	mg/L			< 0.001				< 0.001				0.0003				< 0.001				< 0.001	
Mg	mg/L			0.41				0.38				0.34				0.33				0.29	
Mn	mg/L			0.004				0.004				0.0037				0.004				0.003	
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	
Mo	mg/L			0.0005				< 0.0005				0.0005				< 0.0005				< 0.0005	
Ni	mg/L			< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001	
P	mg/L			< 0.15				< 0.15				< 0.03				< 0.15				< 0.15	
K	mg/L			0.3				0.4				0.3				0.3				0.3	
Se	mg/L			< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001	
Si	mg/L			1.1				0.6				0.6				1.2				0.5	
Ag	mg/L			< 0.00025				< 0.00025				< 0.00005				< 0.00025				< 0.00025	
Na	mg/L			< 0.05				0.12				0.22				< 0.05				0.16	
Sr	mg/L			0.048				0.049				0.041				0.036				0.033	
Te	mg/L			< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001	
Tl	mg/L			< 0.0001				< 0.0001				< 0.00002				< 0.0001				< 0.0001	
Th	mg/L			< 0.0005				< 0.0005				< 0.0001				< 0.0005				< 0.0005	
Sn	mg/L			< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001	
Ti	mg/L			< 0.001				< 0.001				< 0.0002				< 0.001				< 0.001	
U	mg/L			< 0.0005				< 0.0005				< 0.0001				< 0.0005				< 0.0005	
V	mg/L			< 0.001				< 0.001				0.0009				< 0.001				< 0.001	
Zn	mg/L			< 0.005				< 0.005				0.002				< 0.005				< 0.005	
Zr	mg/L			< 0.01				< 0.01				< 0.002				< 0.01				< 0.01	

Weeks	#	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Date		7-Feb-06	########	########	########	7-Mar-06	########	########	########	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	########	########	########	6-Jun-06	13-Jun-06	20-Jun-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		495	500	500	485	485	480	495	495	475	495	495	495	495	500	495	445	465	500	435	485
pH	Effluent (units)	7.32	7.38	7.30	7.73	7.46	7.07	7.12	7.32	7.36	6.88	7.43	7.34	7.35	7.24	7.20	7.38	7.47	7.27	7.38	7.35
Cond.	(umhos/cm)	17	18	18	14	14	15	13	14	18	11	13	11	11	12	12	10	8	15	12	10
ORP	mV	175	225	180	215	170	175	150	120	140	200	170	160	110	175	125	180	180	170	140	165
Sulphate	(mg/L)	1	1	1	1	2	-1	2	1	< 1	1	2	1	2	1	2	1	2	1	2	1
Acidity	(mg CaCO3/L)	2	1	2	1	< 1	1	2	< 1	1	2	2	1	1	1	1	1	1	1	1	1
Alkalinity	(mg CaCO3/L)	6	5	6	5	4	5	4	5	6	5	5	5	6	5	5	4	4	6	3	7
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L			<0.1				<0.1				<0.1				<0.1				<0.1	
Chloride	mg/L			<0.2				0.3				<0.2				<0.2				<0.2	
TDS	mg/L			18				22				2				2				8	
Al	mg/L			0.043				0.088				0.096				0.063				0.094	
Sb	mg/L			< 0.001				< 0.001				< 0.001				<0.001				< 0.001	
As	mg/L			< 0.001				< 0.001				< 0.001				<0.001				< 0.001	
Ba	mg/L			0.003				0.002				0.002				0.002				0.001	
Be	mg/L			< 0.001				< 0.001				< 0.001				<0.001				< 0.001	
Bi	mg/L			< 0.001				< 0.001				< 0.001				<0.001				< 0.001	
B	mg/L			< 0.05				< 0.05				< 0.05				<0.05				< 0.05	
Cd	mg/L			< 0.0002				< 0.0002				< 0.0002				<0.0002				< 0.0002	
Ca	mg/L			1.83				1.6				1.56				1.48				1.07	
Cr	mg/L			< 0.001				< 0.001				< 0.001				<0.001				< 0.001	
Co	mg/L			< 0.001				< 0.001				< 0.001				<0.001				< 0.001	
Cu	mg/L			< 0.001				< 0.001				< 0.001				<0.001				< 0.001	
Fe	mg/L			< 0.05				< 0.05				< 0.05				<0.05				< 0.05	
Pb	mg/L			< 0.001				< 0.001				< 0.001				<0.001				< 0.001	
Li	mg/L			< 0.001				< 0.001				< 0.001				<0.001				< 0.001	
Mg	mg/L			0.32				0.33				0.41				0.32				0.21	
Mn	mg/L			0.004				0.004				0.004				0.004				0.002	
Hg	ug/L			< 0.02				< 0.02				< 0.02				<0.02				< 0.02	
Mo	mg/L			< 0.0005				< 0.0005				< 0.0005				<0.0005				< 0.0005	
Ni	mg/L			< 0.001				< 0.001				< 0.001				<0.001				< 0.001	
P	mg/L			< 0.15				< 0.15				< 0.15				<0.15				< 0.15	
K	mg/L			0.5				0.3				0.3				0.3				0.3	
Se	mg/L			< 0.001				< 0.001				< 0.001				<0.001				< 0.001	
Si	mg/L			0.7				0.5				0.8				0.6				0.4	
Ag	mg/L			< 0.00025				< 0.00025				< 0.00025				<0.00025				< 0.00025	
Na	mg/L			0.26				0.11				0.13				<0.05				< 0.05	
Sr	mg/L			0.037				0.032				0.031				0.03				0.019	
Te	mg/L			< 0.001				< 0.001				< 0.001				<0.001				< 0.001	
Tl	mg/L			< 0.0001				< 0.0001				< 0.0001				<0.0001				< 0.0001	
Th	mg/L			< 0.0005				< 0.0005				< 0.0005				<0.0005				< 0.0005	
Sn	mg/L			< 0.001				< 0.001				< 0.001				<0.001				< 0.001	
Ti	mg/L			< 0.001				< 0.001				< 0.001				<0.001				< 0.001	
U	mg/L			< 0.0005				< 0.0005				< 0.0005				<0.0005				< 0.0005	
V	mg/L			< 0.001				< 0.001				< 0.001				<0.001				0.001	
Zn	mg/L			< 0.005				< 0.005				< 0.005				<0.005				< 0.005	
Zr	mg/L			< 0.01				< 0.01				< 0.01				<0.01				< 0.01	

Weeks	#	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
Date		27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	########	########	########	5-Sep-06	########	########	########	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	480	500	460	485	485	465	485	500	480	440	440	465	465	445	495	470	465	480	485
pH	Effluent (units)	7.29	7.38	7.45	7.36	7.37	7.39	7.35	7.41	7.21	7.27	7.19	7.40	7.47	7.26	7.23	7.19	7.53	7.39	7.38	7.32
Cond.	(umhos/cm)	10	8	9	8	8	9	9	10	10	9	9	8	9	7	8	9	8	9	8	8
ORP	mV	160	200	175	140	175	125	160	165	130	120	115	150	150	125	145	150	125	140	140	115
Sulphate	(mg/L)	1	1	2	2	1	< 1	2	1	2	1	1	1	1	2	1	2	2	1	1	1
Acidity	(mg CaCO3/L)	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	1	1
Alkalinity	(mg CaCO3/L)	7	6	6	6	6	7	6	7	7	6	6	5	5	7	5	7	6	5	5	5
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L			<0.1				<0.1				1.2				<0.1				<0.1	
Chloride	mg/L			<0.2				<0.2				<0.2				<0.2				0.3	
TDS	mg/L			34				<1				35				46				6	
Al	mg/L			0.052				0.07				0.065				0.046				0.086	
Sb	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
As	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
Ba	mg/L			0.001				0.002				0.001				0.001				0.001	
Be	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
Bi	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
B	mg/L			<0.05				<0.05				< 0.05				< 0.05				<0.05	
Cd	mg/L			<0.0002				<0.0002				< 0.0002				< 0.0002				<0.0002	
Ca	mg/L			1.26				1.29				1.1				1.07				1.19	
Cr	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
Co	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
Cu	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
Fe	mg/L			<0.05				<0.05				< 0.05				< 0.05				<0.05	
Pb	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
Li	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
Mg	mg/L			0.27				0.26				0.30				0.25				0.30	
Mn	mg/L			0.003				0.003				0.003				0.002				0.003	
Hg	ug/L			<0.02				<0.02				< 0.02				< 0.02				<0.02	
Mo	mg/L			<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005	
Ni	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
P	mg/L			<0.15				<0.15				< 0.15				< 0.15				<0.15	
K	mg/L			0.2				0.3				0.2				< 0.1				0.2	
Se	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
Si	mg/L			0.4				0.5				0.5				0.3				0.5	
Ag	mg/L			<0.00025				<0.00025				< 0.00025				< 0.00025				<0.00025	
Na	mg/L			<0.05				0.08				< 0.05				< 0.05				0.06	
Sr	mg/L			0.023				0.025				0.021				0.021				0.022	
Te	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
Tl	mg/L			<0.0001				<0.0001				< 0.0001				< 0.0001				<0.0001	
Th	mg/L			<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005	
Sn	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
Ti	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
U	mg/L			<0.0005				<0.0005				< 0.0005				< 0.0005				<0.0005	
V	mg/L			<0.001				<0.001				< 0.001				< 0.001				<0.001	
Zn	mg/L			<0.005				<0.005				< 0.005				< 0.005				<0.005	
Zr	mg/L			<0.01				<0.01				< 0.01				< 0.01				<0.01	

Humidity Cell Sample Data

HC 21 - Diabase

Weeks	#	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117
Date		14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	########	########	########	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	########	########	########	6-Mar-07	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		500	470	475	450	475	460	485	425	425	420	480	445	485	430	480	465	495	440
pH	Effluent (units)	7.30	7.32	7.21	7.19	7.20	7.25	7.22	7.26	7.25	7.21	7.21	7.15	7.15	7.16	7.23	7.16	7.09	7.23
Cond.	(umhos/cm)	9	8	8	8	9	8	7	10	6	6	9	8	8	7	8	9	8	7
ORP	mV	125	120	125	110	110	105	125	110	100	100	105	105	100	100	110	110	110	110
Sulphate	(mg/L)	2	< 1	1	1	1	2	< 1	< 1	< 1	2	1	< 1	2	< 1	1	2	1	2
Acidity	(mg CaCO3/L)	1	1	1	1	1	1	1	1	1	1	1	< 1	< 1	< 1	1	< 1	1	< 1
Alkalinity	(mg CaCO3/L)	7	6	5	6	6	6	6	6	5	5	4	5	6	5	6	5	6	5
Total P	mg/L																		
TDP	mgP/L																		
Fluoride	mg/L			<0.1				<0.05				< 0.05				< 0.05			
Chloride	mg/L			0.3				<0.2				< 0.2				< 0.2			
TDS	mg/L			<1				30				< 10				< 10			
Al	mg/L			0.056				0.03				0.037				0.029			
Sb	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
As	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Ba	mg/L			< 0.001				0.0015				0.002				0.001			
Be	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Bi	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
B	mg/L			< 0.05				< 0.01				< 0.05				< 0.05			
Cd	mg/L			< 0.0002				< 0.00004				< 0.0002				< 0.0002			
Ca	mg/L			1				0.96				1.14				1.07			
Cr	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Co	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Cu	mg/L			< 0.001				0.0004				< 0.001				< 0.001			
Fe	mg/L			< 0.05				0.01				< 0.05				< 0.05			
Pb	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Li	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Mg	mg/L			0.25				0.25				0.31				0.26			
Mn	mg/L			0.002				0.003				0.003				0.003			
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L			< 0.0005				0.0003				< 0.0005				< 0.0005			
Ni	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
P	mg/L			< 0.15				< 0.03				< 0.15				< 0.15			
K	mg/L			0.2				0.19				0.2				0.2			
Se	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Si	mg/L			0.4				0.33				0.4				0.4			
Ag	mg/L			< 0.00025				< 0.00005				< 0.00025				< 0.00025			
Na	mg/L			< 0.05				0.06				0.05				0.06			
Sr	mg/L			0.019				0.046				0.021				0.019			
Te	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Tl	mg/L			< 0.0001				< 0.00002				< 0.0001				< 0.0001			
Th	mg/L			< 0.0005				< 0.0001				< 0.0005				< 0.0005			
Sn	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
Ti	mg/L			< 0.001				< 0.0002				< 0.001				< 0.001			
U	mg/L			< 0.0005				< 0.0001				< 0.0005				< 0.0005			
V	mg/L			< 0.001				0.0004				< 0.001				< 0.001			
Zn	mg/L			< 0.005				< 0.001				< 0.005				< 0.005			
Zr	mg/L			< 0.01				< 0.002				< 0.01				< 0.01			

Weeks	#	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Date		########	########	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	480	475	490	470	470	480	455	455	505	480	500	460	500	475	500	490	485
pH	Effluent (units)	7.19	7.21	7.13	7.28	7.18	7.14	7.19	7.17	7.20	7.11	7.17	7.04	7.11	7.10	7.12	7.18	7.21	7.08
Cond.	(umhos/cm)	8	9	8	9	9	8	8	7	9	8	8	8	8	8	7	8	8	8
ORP	mV	110	105	110	115	105	100	105	120	115	110	100	110	110	115	110	115	110	110
Sulphate	(mg/L)	2	2	1	2	1	1	2	1	< 1	1	2	1	< 1	2	1	1	1	< 1
Acidity	(mg CaCO3/L)	1	1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	1	1	1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	5	6	6	6	6	6	5	6	6	5	5	6	5	6	5	5	5	5
Total P	mg/L																		
TDP	mgP/L																		
Fluoride	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2	
TDS	mg/L	< 10				< 10				< 10				< 10				75	
Al	mg/L	0.033				0.035				0.03				0.026				0.025	
Sb	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
As	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Ba	mg/L	0.001				0.001				0.0012				0.0011				0.001	
Be	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Bi	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
B	mg/L	< 0.05				< 0.05				< 0.01				< 0.01				< 0.05	
Cd	mg/L	< 0.0002				< 0.0002				< 0.00004				< 0.00004				< 0.0002	
Ca	mg/L	1.13				1.03				0.98				0.81				0.79	
Cr	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Co	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Cu	mg/L	< 0.001				< 0.001				0.0008				0.0006				0.001	
Fe	mg/L	< 0.05				< 0.05				< 0.01				< 0.01				< 0.05	
Pb	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Li	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.005	
Mg	mg/L	0.3				0.29				0.27				0.22				0.21	
Mn	mg/L	0.003				0.003				0.003				0.0026				0.003	
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	
Mo	mg/L	< 0.0005				< 0.0005				0.0004				0.0003				< 0.0005	
Ni	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
P	mg/L	< 0.15				< 0.15				< 0.03				< 0.03				< 0.15	
K	mg/L	0.2				0.2				0.23				0.18				0.2	
Se	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Si	mg/L	0.4				0.3				0.38				0.3				0.3	
Ag	mg/L	< 0.00025				< 0.00025				< 0.00005				< 0.00005				< 0.00025	
Na	mg/L	0.07				0.07				0.07				0.06				< 0.05	
Sr	mg/L	0.019				0.018				0.019				0.015				0.016	
Te	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Tl	mg/L	< 0.0001				< 0.0001				< 0.00002				< 0.00002				< 0.0001	
Th	mg/L	< 0.0005				< 0.0005				< 0.0001				< 0.0001				< 0.0005	
Sn	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
Ti	mg/L	< 0.001				< 0.001				< 0.0002				< 0.0002				< 0.001	
U	mg/L	< 0.0005				< 0.0005				< 0.0001				< 0.0001				< 0.0005	
V	mg/L	< 0.001				< 0.001				0.0003				0.0003				< 0.001	
Zn	mg/L	< 0.005				< 0.005				< 0.001				< 0.001				< 0.005	
Zr	mg/L	< 0.01				< 0.01				< 0.002				< 0.002				< 0.01	

Weeks	#	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153
Date		24-Jul-07	31-Jul-07	7-Aug-07	########	########	########	4-Sep-07	########	########	########	2-Oct-07	9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		505	485	505	490	505	490	505	485	505	465	485	480	490	500	495	480	480	480
pH	Effluent (units)	7.05	7.12	7.04	7.17	7.15	7.11	7.16	7.13	7.13	7.07	6.98	7.08	7.09	7.12	7.07	6.82	6.94	6.98
Cond.	(umhos/cm)	8	8	8	8	8	7	7	8	8	7	7	7	7	6	7	6	6	6
ORP	mV	120	1150	160	150	150	145	150	135	130	125	140	120	115	110	110	120	110	120
Sulphate	(mg/L)	< 1	3	< 1	1	1	1	1	2	1	1	1	< 1	1	1	1	< 1	1	1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total P	mg/L																		
TDP	mgP/L																		
Fluoride	mg/L			0.14				< 0.05				< 0.05				< 0.05			
Chloride	mg/L			< 0.2				0.61				< 0.2				< 0.2			
TDS	mg/L			< 10				< 10				< 10				42			
Al	mg/L			0.031				0.017				0.044				0.032			
Sb	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Ba	mg/L			0.001				0.001				0.001				0.001			
Be	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L			< 0.05				< 0.05				< 0.05				< 0.05			
Cd	mg/L			< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L			0.95				0.81				0.83				0.9			
Cr	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Cu	mg/L			0.001				< 0.001				0.001				< 0.001			
Fe	mg/L			< 0.05				< 0.05				< 0.05				< 0.05			
Pb	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L			< 0.005				< 0.001				< 0.001				< 0.001			
Mg	mg/L			0.25				0.22				0.23				0.26			
Mn	mg/L			0.004				0.003				0.004				0.004			
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Ni	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
P	mg/L			< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L			0.2				0.2				0.2				0.2			
Se	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L			0.4				0.4				0.4				0.3			
Ag	mg/L			< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L			0.06				< 0.05				< 0.05				0.05			
Sr	mg/L			0.016				0.014				0.015				0.015			
Te	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L			< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L			< 0.001				< 0.001				< 0.001				< 0.001			
Zn	mg/L			< 0.005				< 0.005				< 0.005				< 0.005			
Zr	mg/L			< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171
Date		27-Nov-07	4-Dec-07	########	########	########	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	########	########	########	4-Mar-08	########	########	########
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		495	500	490	495	490	480	470	500	490	490	500	490	500	495	480	495	485	490
pH	Effluent (units)	6.83	6.84	6.97	6.95	6.94	6.98	6.91	6.92	6.98	6.93	6.92	6.96	6.94	6.90	6.93	6.96	6.98	6.76
Cond.	(umhos/cm)	7	6	8	6	7	6	6	7	7	7	6	6	7	7	7	7	6	7
ORP	mV	115	125	115	130	115	110	120	110	105	115	105	110	110	110	115	120	160	170
Sulphate	(mg/L)	1	1	< 1	1	1	2	2	2	< 1	1	< 1	1	1	2	< 1	1	2	1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	4	5	5	5	5	5	4	4	4	4	5	4	5	4	4	4	4	4
Total P	mg/L																	< 0.02	
TDP	mgP/L																	< 0.02	
Fluoride	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2	
TDS	mg/L	13				< 10				< 10				< 10				18	CCME DL
Al	mg/L	0.12				0.021				0.024				0.012				0.015	0.013
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
As	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Ba	mg/L	0.003				0.001				0.001				0.001				0.001	0.0011
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
B	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01
Cd	mg/L	0.0005				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.00004
Ca	mg/L	1.85				0.79				0.84				0.81				0.7	0.8
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Cu	mg/L	0.007				< 0.001				< 0.001				< 0.001				< 0.001	0.0009
Fe	mg/L	0.25				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Li	mg/L	< 0.001				< 0.001				0.003				< 0.001				< 0.001	0.0002
Mg	mg/L	0.46				0.23				0.28				0.29				0.23	0.24
Mn	mg/L	0.009				0.002				0.004				0.005				0.004	0.0038
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L	0.0008				< 0.0005				< 0.0005				< 0.0005				< 0.0005	0.0002
Ni	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15	< 0.03
K	mg/L	0.7				0.1				0.2				0.2				0.2	0.18
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Si	mg/L	0.5				0.3				0.4				1.9				< 0.25	0.17
Ag	mg/L	0.0004				< 0.00025				< 0.00025				< 0.00025				< 0.00025	< 0.00005
Na	mg/L	< 0.05				< 0.05				< 0.05				0.06				< 0.05	0.03
Sr	mg/L	0.021				0.013				0.015				0.015				0.012	0.013
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Tl	mg/L	0.0004				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.00002
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
Ti	mg/L	0.004				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001
V	mg/L	0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0003
Zn	mg/L	< 0.005				< 0.005				< 0.005				< 0.005				< 0.005	0.001
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.002

Weeks	#	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189
Date		1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		485	485	500	475	490	470	510	490	490	485	490	495	500	500	485	480	490	490
pH	Effluent (units)	6.95	7.03	7.00	7.00	6.95	6.92	6.91	6.96	6.89	6.90	6.86	6.81	6.72	6.64	6.72	6.82	6.75	6.72
Cond.	(umhos/cm)	6	6	7	6	6	6	5	7	7	6	8	9	10	9	13	10	9	9
ORP	mV	160	150	150	160	150	150	140	140	150	155	145	150	140	140	140	150	145	120
Sulphate	(mg/L)	1	< 1	< 1	< 1	1	< 1	< 1	< 1	2	1	1	< 1	2	1	1	1	< 1	1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	4	4	5	4	5	4	4	4	4	4	4	3	3	4	4	4	4	3
Total P	mg/L			0.06				< 0.02				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02
TDP	mgP/L			< 0.02				< 0.02				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02
Fluoride	mg/L			< 0.05				< 0.05				< 0.05				< 0.05	< 0.05	< 0.05	< 0.05
Chloride	mg/L			0.21				< 0.2				0.8				2.18	1.39	1.16	1.17
TDS	mg/L			< 10	CCME DL			10	CCME DL			< 10	CCME DL			< 10	< 10	< 10	< 10
Al	mg/L			0.016	0.012			0.014	0.012			0.021	0.011			0.01	0.007	0.006	0.008
Sb	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
As	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Ba	mg/L			0.001	0.0012			0.001	0.0011			0.001	0.0013			0.0021	0.0016	0.0014	0.0014
Be	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Bi	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
B	mg/L			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01
Cd	mg/L			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004
Ca	mg/L			0.85	0.81			0.73	0.78			0.8	0.8			1.29	0.91	0.83	0.86
Cr	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Co	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Cu	mg/L			< 0.001	0.0003			< 0.001	0.0004			0.002	0.0023			0.0025	0.0004	0.0015	0.0009
Fe	mg/L			< 0.05	< 0.01			< 0.05	< 0.01			< 0.05	< 0.01			< 0.01	< 0.01	< 0.01	< 0.01
Pb	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Li	mg/L			< 0.001	0.0002			< 0.001	0.0003			< 0.001	0.0002			0.0004	< 0.0002	< 0.0002	< 0.0002
Mg	mg/L			0.26	0.26			0.29	0.27			0.28	0.3			0.49	0.28	0.27	0.32
Mn	mg/L			0.004	0.004			0.004	0.0036			0.005	0.0049			0.0051	0.0084	0.0068	0.0074
Hg	ug/L			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02
Mo	mg/L			< 0.0005	0.0002			< 0.0005	0.0002			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001
Ni	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
P	mg/L			< 0.15	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03			< 0.03	< 0.03	< 0.03	< 0.03
K	mg/L			0.2	0.17			0.2	0.16			0.2	0.18			0.23	0.2	0.19	0.18
Se	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Si	mg/L			0.4	0.39			0.5	0.39			0.5	0.35			0.43	0.32	0.38	0.41
Ag	mg/L			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005
Na	mg/L			< 0.05	0.04			<0.05	0.03			< 0.05	0.05			0.06	0.04	0.06	0.05
Sr	mg/L			0.013	0.013			0.012	0.012			0.014	0.013			0.021	0.015	0.013	0.013
Te	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Tl	mg/L			< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002
Th	mg/L			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001
Sn	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
Ti	mg/L			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002
U	mg/L			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001
V	mg/L			< 0.001	0.0003			< 0.001	0.0003			0.001	0.0002			< 0.0002	< 0.0002	< 0.0002	0.0002
Zn	mg/L			< 0.005	< 0.001			< 0.005	0.001			< 0.005	0.001			0.003	< 0.001	0.001	< 0.001
Zr	mg/L			< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002

Weeks	#	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Date		5-Aug-08	########	########	########	2-Sep-08	9-Sep-08	########	########	########	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		475	485	475	485	485	480	495	485	495	480	485	460	500	495	490	490	490	500
pH	Effluent (units)	6.80	6.67	6.56	6.62	6.73	6.60	6.80	6.59	6.40	6.42	6.53	6.38	6.31	6.52	6.42	6.40	6.47	6.51
Cond.	(umhos/cm)	10	9	13	13	13	7	7	15	12	14	18	23	10	15	6.5	7	6	8
ORP	mV	135	150	130	130	130	120	120	125	130	130	140	145	135	135	160	130	130	140
Sulphate	(mg/L)	1	1	< 1	< 1	< 1	2	1	2	1	< 1	2	< 1	2	1	< 1	2	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	2	< 1	1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1
Alkalinity	(mg CaCO3/L)	4	4	3	3	4	3	4	3	3	3	3	2	2	3	3	3	3	3
Total P	mg/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
TDP	mgP/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Fluoride	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.05
Chloride	mg/L	1.85				1.15				3.37				3.84				< 0.2	0.55
TDS	mg/L	< 10				14				< 10				16				< 10	10
Al	mg/L	0.006				0.005				0.003				0.002				0.005	0.003
Sb	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
As	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ba	mg/L	0.0019				0.0015				0.0042				0.0041				0.0011	0.0017
Be	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Bi	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
B	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Cd	mg/L	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004	< 0.00004
Ca	mg/L	0.98				0.8				1.43				1.59				0.53	0.68
Cr	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Co	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Cu	mg/L	0.0031				0.0007				0.0018				0.0058				0.0048	0.0022
Fe	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.01
Pb	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Li	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Mg	mg/L	0.35				0.28				0.44				0.62				0.17	0.25
Mn	mg/L	0.01				0.011				0.024				0.043				0.0095	0.0082
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02
Mo	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Ni	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
P	mg/L	< 0.03				< 0.03				< 0.03				< 0.03				< 0.03	< 0.03
K	mg/L	0.22				0.2				0.23				0.42				0.21	0.22
Se	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Si	mg/L	0.38				0.4				0.39				0.58				0.41	0.5
Ag	mg/L	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005	< 0.00005
Na	mg/L	0.06				0.04				0.05				0.08				0.04	0.06
Sr	mg/L	0.015				0.013				0.024				0.027				0.0072	0.01
Te	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Tl	mg/L	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002	< 0.00002
Th	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
Sn	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
Ti	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.0002
U	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.0001
V	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				0.0002	< 0.0002
Zn	mg/L	0.001				0.001				0.003				0.004				0.001	0.002
Zr	mg/L	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002	< 0.002

Humidity Cell Sample Data

HC 22 - Processed Kimberlite Fines

S-Total:	0.04	%
CO_2:	0.02	%
NP:	73.80	t CaCO3/1000 t
CaNP:	33.23	t CaCO3/1000 t
AP:	0.94	t CaCO3/1000 t

Weeks	#	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	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
Date		11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05	29-Nov-05	6-Dec-05	13-Dec-05	20-Dec-05	27-Dec-05	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	14-Feb-06	21-Feb-06	28-Feb-06	7-Mar-06	14-Mar-06	21-Mar-06	28-Mar-06	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	16-May-06	23-May-06	30-May-06	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	15-Aug-06	22-Aug-06	29-Aug-06	5-Sep-06	12-Sep-06	19-Sep-06	26-Sep-06	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06	14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	12-Dec-06	19-Dec-06	26-Dec-06	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	13-Feb-07	20-Feb-07	27-Feb-07	6-Mar-07	13-Mar-07	20-Mar-07	27-Mar-07	3-Apr-07
Leachate Volume Added (mL)		966	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375
Leachate Volume Recovered (mL)		225	360	365	340	350	360	350	360	365	370	390	375	370	370	370	365	375	355	360	360	365	360	355	360	375	385	375	385	360	380	375	360	380	375	360	380	375	360	380	375	365	380	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375
pH	Effluent (units)	8.00	7.90	8.32	8.16	8.39	8.00	7.45	8.05	7.70	7.45	7.47	7.34	7.37	7.38	7.86	8.10	7.80	7.19	7.44	7.80	7.85	7.89	8.25	7.56	7.85	7.73	7.72	7.69	7.60	7.62	7.29	7.31	7.76	7.54	7.30	7.37	7.29	7.24	7.41	7.46	7.41	7.54	7.49	7.56	7.43	7.30	7.26	7.35	7.42	7.39	7.01	7.22	7.13	6.97	7.58	7.49	7.35	7.18	7.38	7.21	7.21	7.39	7.33	7.17	7.29	7.35	7.38	7.33	7.23	7.14	7.38	7.32	7.17	7.38	7.17	7.42	7.32	7.21
Cond.	(umhos/cm)	161	61	96	82	171	89	98	78	53	67	45	50	40	39	39	31	36	17	19	42	91	24	48	75	71	70	38	26	30	28	24	23	22	24	30	20	16	17	16	17	20	14	18	17	16	18	18	25	21	19	10	20	19	23	18	20	21	16	18	18	20	20	18	16	22	15	18	15	19	17	17	17	16	16	16	16
ORP	mV	140	120	180	100	150	190	115	150	145	165	175	170	185	210	175	170	125	170	225	175	145	140	115	160	120	160	190	160	185	145	190	120	185	190	190	155	190	190	220	195	170	145	160	190	200	140	135	110	155	160	145	160	155	100	105	110	110	115	110	120	125	110	100	100	100	100	110	100	105	105	105	110	110	110	110	105	105	110
Sulphate	(mg/L)	4	4	4	4	4	3	16	1	3	3	3	2	4	3	3	1	1	1	1	1	4	3	1	1	1	1	1	1	4	3	2	2	2	2	2	1	2	2	2	2	2	2	<1	2	3	2	2	3	1	2	2	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Acidity	(mg CaCO3/L)	2	2	2	< 1	< 1	< 1	1	< 1	1	1	< 1	5	2	4	1	1	1	1	1	1	1	1	1	1	1	1	< 1	1	1	1	1	< 1	1	1	1	1	1	1	1	1	1	1	< 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Alkalinity	(mg CaCO3/L)	41	14	17	16	21	12	10	10	20	16	9	9	9	7	6	7	8	6	5	9	26	9	9	20	18	16	15	11	10	12	12	9	11	8	7	10	7	10	10	9	6	9	9	9	8	9	9	8	9	9	6	9	10	9	9	8	10	9	9	8	9	9	8	9	9	8	9	9	8	9	9	8
Total P	mg/L																																																																																													
TDP	mg/L																																																																																												
Fluoride	mg/L	0.29			< 0.1				0.16					< 0.1				0.09				0.14				0.18				0.11			< 0.1					<0.1			< 0.1			< 0.1				< 0.1				< 0.1				< 0.1	(06 previously entered as 5. shou		< 0.1				< 0.05				< 0.05				< 0.05				0.09				< 0.05				< 0.05				< 0.05				< 0.05			
Chloride	mg/L	3.5			8.5				20.2					3.0				1.0				4.0				2.6				0.8			0.5					0.3			0.3			0.6				0.6				0.5				0.3				0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2			
TDS	mg	69			121				92					31				42				85				48				24			245					< 1			5			3				2				75				< 10				16				20				< 10				16				20			
Sr	mg/L	0.107			0.069				0.021					0.006				0.067				0.180				0.055				0.043			< 0.005					0.008			0.008			0.007				0.006				0.044				0.007				0.005				0.004				0.005				0.004				0.005			
Sb	mg/L	< 0.001			< 0.001				< 0.001					< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Se	mg/L	< 0.001			< 0.001				< 0.001					< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Sn	mg/L	< 0.001			< 0.001				< 0.001					< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Te	mg/L	< 0.001			< 0.001				< 0.001					< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L	0.002			< 0.001				< 0.001					< 0.001				0.001				0.002				< 0.001				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L	0.008			0.002				0.001					0.001				< 0.001				0.001				< 0.001				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
V	mg/L	1.46			2.04				1.73					0.66				0.78				2.21				0.91				0.53			0.32					0.27			0.44			0.31				0.38				0.24				0.31				0.28				0.34				0.28			
Zn	mg/L	0.002			< 0.001				0.001					< 0.001				0.001				0.003				< 0.001				< 0.001			0.006					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Mn	mg/L	0.007			0.004				0.004					0.004				0.007				0.011				0.008				0.008			0.008					0.008			0.008			0.007				0.004				0.004				0.007				0.007				0.007				0.007			
Mg	mg/L	0.009			0.002				0.002					< 0.001				0.003				0.009				0.003				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L	< 0.15			< 0.15				< 0.15					< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			< 0.15					< 0.15			< 0.15			< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L	9.7			10.7				11.1					3.6				2.3				5.9				5.9				2.3			2.4					1.8			2.5			2.4				2.1				2.8				1.8				2.3				2.4				1.9			
Se	mg/L	< 0.001			< 0.001				< 0.001					< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L	4.9			1.9				2.3					1.8				1.2				2.6				2.2				1.3			0.8					0.6			1.1			1.1				1				0.7				0.8				1				0.9				0.9			
Ag	mg/L	< 0.00025			< 0.00025				< 0.00025					< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			< 0.00025					< 0.00025			< 0.00025			< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L	7.11			11.6				12.7					3.08				2.24				6.26				5.94				2.43			1.53					1.21			1.78			1.73				1.85				1.81				1.27				1.48				1.87				1.91				1.45			
Sr	mg/L	0.071			0.097				0.069					0.017				0.014				0.050				0.039				0.018			0.011					0.009			0.015			0.011				0.011				0.014				0.008				0.011				0.008				0.007				0.008			
Ta	mg/L	< 0.001			< 0.001				< 0.001					< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Th	mg/L	< 0.001			< 0.001				< 0.001					< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Th	mg/L	< 0.0005			< 0.0005				< 0.0005					< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			< 0.0005					< 0.0005			< 0.0005			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L	< 0.001			< 0.001				< 0.001					< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L	0.002			< 0.001				< 0.001					< 0.001				0.001				0.002				< 0.001				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L	< 0.0005			< 0.0005				< 0.0005					< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			< 0.0005					< 0.0005			< 0.0005			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L	< 0.001			< 0.001				< 0.001					< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Zn	mg/L	< 0.005			< 0.005				< 0.005					< 0.005				< 0.005				0.008				< 0.005				< 0.005			0.006					< 0.005			< 0.005			< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005			
Mn	mg/L	< 0.001			< 0.001				< 0.001					< 0.001				< 0.001				0.001				< 0.001				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Mg	mg/L	< 0.005			< 0.005				< 0.005					< 0.005				0.008				< 0.005				< 0.005				< 0.005			< 0.005					< 0.005			< 0.005			< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005			
Li	mg/L	< 0.001			< 0.001				< 0.001					< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001					< 0.001			< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
K	mg/L	< 0.05			< 0.05				< 0.05					< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			< 0.05					< 0.05			< 0.05			< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Se	mg/L	< 0.01			< 0.01				< 0.01					< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			< 0.01					< 0.01			< 0.01			< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Humidity Cell Sample Data

HC 22 - Processed Kimberlite Fines

Weeks	#	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
Date		10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	14-Aug-07	21-Aug-07	28-Aug-07	4-Sep-07	11-Sep-07	18-Sep-07	25-Sep-07	2-Oct-07
Leachate Volume Added (mL)		375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375
Leachate Volume Recovered (mL)		375	380	375	385	365	380	360	380	370	380	365	380	380	380	365	360	380	380	380	380	380	380	380	365	375	370
pH	Effluent (units)	7.43	7.25	7.25	7.16	7.28	7.35	7.17	7.33	7.20	7.43	7.30	7.29	7.35	7.45	7.34	7.18	7.27	7.19	7.35	7.35	7.24	7.40	7.30	7.39	7.37	7.31
Cond.	(umhos/cm)	19	19	23	18	19	20	16	18	17	21	18	16	17	20	21	14	17	18	16	17	17	17	17	18	18	16
ORP	mV	100	105	100	100	115	105	105	100	105	105	105	110	105	100	105	110	140	150	155	135	135	145	135	140	130	130
Sulphate	(mg/L)	2	2	2	1	1	2	1	2	2	< 1	1	2	2	2	2	2	1	1	2	< 1	3	< 1	1	1	2	2
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	1	1	< 1	1	< 1	1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	9	8	9	8	9	10	8	10	10	9	9	9	9	9	8	7	9	8	7	8	8	7	8	8	8	8
Total P	mg/L																										
TDP	mgP/L																										
Fluoride	mg/L			< 0.05				< 0.05				< 0.05				0.13				< 0.05				0.07			
Chloride	mg/L			< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2			
TDS	mg/L			11				17				92				20				< 10				16			
Al	mg/L			0.006				< 0.005				0.009				0.009				0.024				0.043			
Sb	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ba	mg/L			0.013				0.01				0.009				0.012				0.007				0.011			
Be	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L			0.11				0.07				0.08				0.09				0.07				0.09			
Cd	mg/L			< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L			0.85				0.69				0.7				0.83				0.54				0.77			
Cr	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Cu	mg/L			< 0.001				< 0.001				0.001				< 0.001				< 0.001				< 0.001			
Fe	mg/L			< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				0.06			
Pb	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L			< 0.001				< 0.005				< 0.005				< 0.005				< 0.005				< 0.001			
Mg	mg/L			0.29				0.21				0.24				0.3				0.27				0.47			
Mn	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L			0.0008				0.0007				0.0006				0.0008				< 0.0005				0.0006			
Ni	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.002			
P	mg/L			< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L			2.3				1.9				2.1				2.2				1.8				2.1			
Se	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L			0.9				0.7				0.8				1				0.8				0.9			
Ag	mg/L			< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L			1.63				1.28				1.37				1.5				1.21				1.38			
Sr	mg/L			0.009				0.007				0.007				0.009				0.002				0.009			
Te	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L			< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Zn	mg/L			< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005			
Zr	mg/L			< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138
Date		9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	11-Dec-07	18-Dec-07	25-Dec-07	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	12-Feb-08	19-Feb-08	26-Feb-08	4-Mar-08	11-Mar-08	18-Mar-08	25-Mar-08	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########
Leachate Volume Added (mL)		375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375
Leachate Volume Recovered (mL)		370	370	370	365	380	370	380	380	370	365	380	365	390	365	380	380	370	370	385	365	375	375	370	365	365	385	350	405	360	360	350	360	370	370
pH	Effluent (units)	7.29	7.39	7.14	7.28	7.31	7.29	7.30	7.33	6.88	7.21	7.10	7.12	7.15	7.15	7.38	7.13	7.07	7.05	7.09	7.39	7.22	7.18	7.22	7.23	7.29	7.31	7.25	7.41	7.16	7.26	7.38	7.63	7.35	7.49
Cond.	(umhos/cm)	16	17	12	16	20	16	16	18	12	20	14	13	16	13	26	15	14	12	13	24	15	26	16	13	17	17	14	20	12	15	21	32	25	28
ORP	mV	120	110	100	105	110	110	115	110	105	100	100	110	110	110	100	110	125	110	105	105	105	120	120	140	160	140	130	135	130	130	135	125	140	135
Sulphate	(mg/L)	< 1	1	2	1	2	2	2	2	2	2	2	1	< 1	2	2	3	< 1	2	2	3	2	1	1	2	2	2	3	2	< 1	1	1	2	< 1	2
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	1	1	1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Alkalinity	(mg CaCO3/L)	8	8	6	7	11	8	9	9	6	9	7	7	7	7	11	8	6	6	6	12	8	6	8	8	9	9	8	10	8	9	10	15	11	13
Total P	mg/L																									-				0.05				0.06	
TDP	mgP/L																									-				-				0.06	
Fluoride	mg/L	0.08				0.06				< 0.05				0.06				< 0.05				< 0.05				0.05				< 0.05				0.07	
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2	
TDS	mg/L	10				< 10				32				< 10				20				25				28	CCME DL			40	CCME DL			< 10	CCME DL
Al	mg/L	0.01				0.11				0.027				0.032				0.012				0.05				0.044	0.018			0.023	0.017			0.052	0.032
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
As	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Ba	mg/L	0.008				0.023				0.009				0.011				0.008				0.01				0.02	0.014			0.009	0.0088			0.017	0.014
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
B	mg/L	0.08				0.08				0.06				0.1				< 0.05				0.1				0.08	0.08			0.07	0.07			0.11	0.12
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004
Ca	mg/L	0.71				1.28				0.63				0.75				0.57				0.79				1.05	1.02			0.62	0.61			1.02	1.01
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0003			< 0.001	0.0005			< 0.001	0.0004
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Cu	mg/L	0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0007			< 0.001	0.0003			< 0.001	0.0005
Fe	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				0.05				0.07	0.05			< 0.05	0.05			0.08	0.04
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Li	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.005				< 0.001	0.0003			< 0.001	0.0004			< 0.001	0.0004
Mg	mg/L	0.27				0.41				0.3				0.45				0.29				0.63				0.67	0.36			0.35	0.33			0.73	0.57
Mn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.001				0.002	0.0003			< 0.001	0.0005			0.001	0.0004
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02
Mo	mg/L	0.0006				0.0006				< 0.0005				0.0006				< 0.0005				0.0006				0.0006	0.0005			< 0.0005	0.0004			0.0005	0.0004
Ni	mg/L	0.001				< 0.001				< 0.001				0.002				0.001				0.002				0.003	0.0013			0.001	0.0019			0.003	0.0014
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15	< 0.03			< 0.15	0.04			< 0.15	< 0.03
K	mg/L	2				2				1.6				2				1.7				2.3				2.1	1.8			1.7	1.66			2.4	2.45
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Si	mg/L	0.8				0.9				0.7				1				0.8				1.1				1	0.9			0.9	0.95			1.2	1.31
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025	< 0.00025			< 0.00025	< 0.00005			< 0.00025	< 0.00005
Na	mg/L	1.26				1.3				0.85				1.56				1.1				1.45				1.33	1.21			1.01	1.03			1.81	1.56
Sr	mg/L	0.008				0.012				0.009				0.009				0.007				0.009				0.013	0.011			0.007	0.0069			0.011	0.012
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.0001	< 0.00002
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0002			< 0.001	0.0004			0.001	0.0004
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0005			< 0.0005	< 0.0001			< 0.0005	< 0.0001
V	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0001			< 0.001	0.0002			< 0.001	0.0003
Zn	mg/L	< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005	< 0.001			< 0.005	0.001			< 0.005	0.002
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002

Weeks	#	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
Date		3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	12-Aug-08	19-Aug-08	26-Aug-08	2-Sep-08	9-Sep-08	16-Sep-08	23-Sep-08	30-Sep-08	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		375	375	375	375	375	375	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		380	350	370	365	380	385	370	380	340	360	375	330	335	315	355	350	3.55	370	355	370	350	335	320	320	360	340	340
pH	Effluent (units)	7.51	7.51	7.34	7.45	7.50	7.25	7.30	7.45	7.34	7.58	7.40	7.71	7.56	7.68	7.32	7.28	7.42	7.37	7.46	7.52	7.21	7.52	7.62	7.5	7.35	7.45	7.45
Cond.	(umhos/cm)	21	23	19	23	22	21	20	23	35	53	22	34	22	39	14	18	19	19	23	21	22	35	46	39	23	32	34
ORP	mV	160	130	160	160	135	140	135	140	145	145	160	140	135	125	130	135	125	125	145	130	140	130	130	135	120	125	150
Sulphate	(mg/L)	2	< 1	< 1	1	1	1	< 1	2	2	< 1	1	1	< 1	< 1	< 1	< 1	3	< 1	1	2	< 1	3	2	< 1	1	< 1	< 1
Acidity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	< 1	1	1	1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 3	1	< 1	1	< 3
Alkalinity	(mg CaCO3/L)	11	11	9	11	11	11	10	11	10	24	10	17	12	19	10	10	11	13	13	11	12	18	23	17	12	15	15
Total P	mg/L			0.1				0.1	0.08	0.17	0.19	0.18				0.19				0.1				< 0.02				0.07
TDP	mgP/L			0.03				< 0.02	0.07	< 0.02	0.06	0.02				0.08				0.06				< 0.02				0.02
Fluoride	mg/L			< 0.05				< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				< 0.05				< 0.05				< 0.05				0.08
Chloride	mg/L			< 0.2				< 0.2	< 0.2	< 0.2	< 0.2	< 0.2				< 0.2				< 0.2				0.3				0.2
TDS	mg/L			14	CCME DL			12	14	< 10	89	22				13				30				37				21
Al	mg/L			0.018	0.016			0.01	0.059	0.018	0.16	0.092				0.043				0.054				0.068				0.022
Sb	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
As	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Ba	mg/L			0.017	0.014			0.011	0.014	0.039	0.045	0.025				0.016				0.024				0.047				0.025
Be	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Bi	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
B	mg/L			0.09	0.07			0.11	0.07	0.12	0.14	0.06				0.07				0.09				0.14				0.11
Cd	mg/L			< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004
Ca	mg/L			0.89	0.79			0.76	1.03	1.78	3.19	1.37				1.1				1.43				2.62				1.8
Cr	mg/L			< 0.001	0.0003			0.0002	0.0007	0.0003	0.002	0.001				0.0006				0.0008				0.0008				0.0004
Co	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	0.0005	0.0002				< 0.0002				0.0002				< 0.0002				< 0.0002
Cu	mg/L			< 0.001	0.0009			0.0005	0.0014	0.0012	0.014	0.0006				< 0.0002				0.0031				0.0046				0.0009
Fe	mg/L			< 0.05	0.03			0.01	0.06	0.02	0.23	0.12				0.07				0.08				0.1				0.03
Pb	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	0.0003	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Li	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	0.0004	0.0009	0.0004				0.0003				0.0005				0.0005				0.0005
Mg	mg/L			0.41	0.44			0.29	0.67	0.7	1.9	1.02				0.67				0.78				1.45				0.9
Mn	mg/L			< 0.001	0.0005			0.0003	0.0012	0.0004	0.003	0.0017				0.0017				0.0012				0.0014				0.0007
Hg	ug/L			< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L			0.0005	0.0005			0.0005	0.0005	0.0007	0.001	0.0003				0.0004				0.0005				0.0008				0.0006
Ni	mg/L			< 0.001	0.0013			0.0009	0.003	0.0009	0.0084	0.0049				0.0026				0.0033				0.0035				0.0015
P	mg/L			< 0.15	< 0.03			< 0.03	0.03	< 0.03	0.06	0.03				< 0.03				0.06				< 0.03				< 0.03
K	mg/L			2.1	2.2			2.06	2.21	3.78	4.18	2.4				2.31				2.58				4.11				3.3
Se	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Si	mg/L			1	1.07			0.8	1.26	1.77	2.39	1.3				1.16				1.38				2.74				1.77
Ag	mg/L			< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005
Na	mg/L			1.17	1.13			1.16	1.22	2.09	2.34	1.23				1.19				1.39				2.51				2.03
Sr	mg/L			0.01	0.0095			0.0096	0.012	0.02	0.031	0.015				0.012				0.016				0.028				0.019
Te	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Tl	mg/L			< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002
Th	mg/L			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Sn	mg/L			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Ti	mg/L			< 0.001	< 0.0002			0.0002	0.0009	0.0002	0.0017	0.0013				0.0012				0.0009				0.0008				0.0004
U	mg/L			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
V	mg/L			< 0.001	0.0002			0.0002	0.0002	0.0003	0.0005	0.0003				0.0002				0.0003				0.0003				0.0003
Zn	mg/L			< 0.005	< 0.001			< 0.001	0.001	0.003	0.004	< 0.001				0.005				0.002				0.001				< 0.001
Zr	mg/L			< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002

Humidity Cell Sample Data

HC 23 - Processed Kimberlite Fines

S-Total:	0.05	%
S^{2-}:	0.04	%
NP:	121.80	t $CaCO_3$/1000 t
CaNP:	12.73	t $CaCO_3$/1000 t
AP:	1.25	t $CaCO_3$/1000 t

Weeks	#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Date		11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05	29-Nov-05	6-Dec-05	13-Dec-05	20-Dec-05	27-Dec-05	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	14-Feb-06	21-Feb-06
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		420	500	480	485	500	485	490	475	495	480	475	490	495	495	485	480	480	475	485	500
pH	Effluent (units)	7.94	8.34	8.71	8.73	8.75	8.96	8.56	8.95	8.79	8.24	8.45	8.43	8.41	8.33	8.82	8.60	8.70	8.67	7.80	8.70
Cond.	(umhos/cm)	760	246	127	87	134	73	91	66	121	96	59	89	69	52	86	78	50	32	39	47
ORP	mV	160	130	135	90	110	170	95	100	100	145	140	130	155	190	145	150	130	160	220	120
Sulphate	(mg/L)	20	25	13	13	18	6	8	5	16	13	5	10	10	5	15	10	2	1	1	3
Acidity	(mg CaCO3/L)	3									< 1									< 1	
Alkalinity	(mg CaCO3/L)	118	41	27	28	29	19	20	22	35	28	20	25	21	18	25	23	19	15	16	17
Total P	mg/L																				
TDP	mgP/L																				

Weeks	#	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Date		28-Feb-06	7-Mar-06	14-Mar-06	21-Mar-06	28-Mar-06	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	16-May-06	23-May-06	30-May-06	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		485	460	510	495	505	455	505	505	495	505	480	495	500	490	450	455	505	445	490	435
pH	Effluent (units)	8.77	8.87	8.49	8.66	9.41	9.03	8.48	9.01	8.83	8.83	9.20	8.87	8.98	8.82	8.70	8.71	8.88	8.88	8.94	8.88
Cond.	(umhos/cm)	71	41	67	121	67	69	50	42	49	47	50	54	70	37	54	48	79	61	70	53
ORP	mV	115	90	110	110	70	110	120	150	145	120	100	110	110	100	130	150	140	140	120	130
Sulphate	(mg/L)	7	2	4	22	8	5	6	3	5	4	4	5	6	3	4	4	8	5	4	3
Acidity	(mg CaCO3/L)																				
Alkalinity	(mg CaCO3/L)	25	18	25	37	32	24	20	18	22	22	30	22	28	17	22	20	35	35	34	23

Weeks	#	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Date		18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	15-Aug-06	22-Aug-06	29-Aug-06	5-Sep-06	12-Sep-06	19-Sep-06	26-Sep-06	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06	14-Nov-06	21-Nov-06	28-Nov-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		505	500	480	490	455	450	500	500	505	505	505	505	500	485	500	505	500	480	490	500
pH	Effluent (units)	8.61	9.12	8.86	8.82	8.71	8.93	9.01	8.94	9.16	9.17	8.88	9.11	9.20	9.19	9.16	9.15	9.15	9.01	9.06	9.04
Cond.	(umhos/cm)	90	78	59	50	41	74	97	88	101	95	67	96	86	49	74	102	83	78	73	80
ORP	mV	150	100	140	150	100	65	120	125	110	100	105	90	85	85	100	110	100	100	85	80
Sulphate	(mg/L)	10	8	4	4	3	6	9	8	10	8	4	6	8	6	4	4	6	5	3	4
Acidity	(mg CaCO3/L)																				
Alkalinity	(mg CaCO3/L)	33	34	28	25	21	31	36	36	37	39	28	37	40	18	24	34	35	35	35	35

Weeks	#	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Date		5-Dec-06	12-Dec-06	19-Dec-06	26-Dec-06	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	13-Feb-07	20-Feb-07	27-Feb-07	6-Mar-07	13-Mar-07	20-Mar-07	27-Mar-07	3-Apr-07	10-Apr-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		495	500	495	475	500	495	495	485	505	505	470	505	500	470	495	500	495	500	500
pH	Effluent (units)	8.71	8.80	8.69	8.78	8.83	8.92	8.90	8.91	8.96	8.93	9.05	8.97	8.97	8.98	8.80	8.83	8.95	8.95	8.70
Cond.	(umhos/cm)	73	66	63	40	58	68	62	67	67	65	67	78	60	65	73	60	63	65	69
ORP	mV	110	115	95	105	105	100	115	100	100	100	105	105	100	100	100	100	105	100	95
Sulphate	(mg/L)	3	3	3	< 1	1	2	4	4	2	3	2	4	4	2	2	2	3	2	2
Acidity	(mg CaCO3/L)																			
Alkalinity	(mg CaCO3/L)	31	31	28	36	39	32	28	33	33	33	33	34	26	33	35	28	31	30	34

Weeks	#	1	5	9	13	17	21	25	29	33	37	41	45	49	53	57	61	65	69	73	77
Date		11-Oct-05	8-Nov-05	6-Dec-05	3-Jan-06	31-Jan-06	28-Feb-06	28-Mar-06	25-Apr-06	23-May-06	20-Jun-06	18-Jul-06	15-Aug-06	12-Sep-06	10-Oct-06	7-Nov-06	5-Dec-06	2-Jan-07	30-Jan-07	27-Feb-07	27-Mar-07
Fluoride	mg/L	0.28	0.14	0.32	0.17	0.06	0.15	0.24	0.16	0.23	0.28	0.35	0.15	0.40	0.42	0.38	0.14	0.19	0.22	0.13	0.2
Chloride	mg/L	145	6.3	2.6	0.6	< 0.2	0.8	0.6	0.5	0.5	0.7	0.2	0.5	0.5	0.5	0.5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
TDS	mg/L	546	89	16	40	53	51	65	39	270	208	77	6	14	102	98	78	18	57	54	47
Al	mg/L	0.01	0.029	0.021	0.010	0.100	0.044	0.200	0.040	< 0.005	0.011	< 0.005	0.025	0.006	0.032	0.023	< 0.005	0.007	0.009	0.016	< 0.005
Sb	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
As	mg/L	0.01	0.002	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.001	< 0.001	0.001	0.001	0.002	< 0.001	< 0.001	< 0.001	0.001	< 0.001
Ba	mg/L	0.28	0.055	0.037	0.031	0.036	0.036	0.026	0.032	0.044	0.091	0.071	0.046	0.053	0.069	0.085	0.079	0.1	0.11	0.1	0.11
Be	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bi	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
B	mg/L	1.94	0.63	0.95	0.38	0.11	0.33	0.44	0.28	0.39	0.5	0.59	0.29	0.69	0.75	0.68	0.26	0.23	0.26	0.27	0.26
Cd	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Ca	mg/L	59.2	7.38	7.74	3.91	3.69	4.54	4.49	3.49	4.54	4.53	4.73	3.12	4.66	5.34	5.7	4.39	4.37	5.1	5.04	5.1
Cr	mg/L	0.003	0.002	< 0.001	< 0.001	0.001	< 0.001	0.003	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Co	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cu	mg/L	0.002	0.001	< 0.001	< 0.001	< 0.001	0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001
Fe	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	0.17	< 0.05	0.26	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pb	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Li	mg/L	0.013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Mg	mg/L	13	1.80	2.08	1.04	1.47	1.18	1.98	0.91	1.04	1.04	1.21	0.78	1.14	1.47	1.23	1.02	1.05	1.44	1.29	1.2
Mn	mg/L	0.002	0.001	0.001	< 0.001	0.003	0.001	0.004	< 0.001	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Hg	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Mo	mg/L	0.0038	0.007	0.011	0.003	0.001	0.003	0.0028	0.0017	0.0026	0.0031	0.0035	0.001	0.0031	0.0028	0.0026	0.001	0.0008	0.001	0.0011	0.001
Ni	mg/L	0.006	0.004	0.003	0.002	0.006	0.002	0.011	0.001	< 0.001	0.001	0.001	0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001
P	mg/L	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
K	mg/L	29.8	7.1	8.5	3.8	2.2	4.0	4.0	4.1	5.9	6.8	7.8	4.6	8	9.3	10.1	6.2	5.8	6.9	6.7	6.4
Se	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Si	mg/L	23.7	3.8	6.2	3.2	2.0	3.2	4.0	3.2	4.7	5.9	7	3.8	7.9	8.3	6.8	4.5	4.5	7	5.4	5.5
Ag	mg/L	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Na	mg/L	58.6	11.4	14.2	5.07	2.12	5.18	8.48	4.05	5.69	7.07	7.76	3.29	7.39	7.7	6.39	3.05	3.02	3.79	3.21	2.95
Sr	mg/L	1.01	0.09	0.09	0.04	0.04	0.05	0.046	0.042	0.056	0.056	0.063	0.038	0.062	0.077	0.076	0.058	0.13	0.07	0.069	0.068
Te	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tl	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Sn	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ti	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.003	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
U	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
V	mg/L	< 0.001	0.001	0.002	0.001	< 0.001	0.001	0.002	0.001	0.001	0.002	0.002	0.001	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002
Zn	mg/L	< 0.005	0.008	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.007	< 0.005	< 0.005	< 0.005	< 0.005
Zr	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Humidity Cell Sample Data

HC 23 - Processed Kimberlite Fines

Weeks	#	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
Date		17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	14-Aug-07	21-Aug-07	28-Aug-07	4-Sep-07	11-Sep-07	18-Sep-07	25-Sep-07	2-Oct-07	9-Oct-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		505	495	495	480	495	495	490	485	480	480	485	495	500	485	500	490	505	480	485	490	495	505	485	500	465	465
pH	Effluent (units)	8.99	8.97	8.88	8.72	8.95	8.93	8.93	8.82	8.80	8.78	8.85	8.89	8.73	8.44	9.01	8.63	9.02	8.61	8.81	8.98	8.79	9.01	8.96	8.99	8.94	8.95
Cond.	(umhos/cm)	71	63	67	71	71	78	83	69	55	58	50	56	52	46	69	47	73	41	54	56	48	73	42	66	65	68
ORP	mV	110	115	100	100	95	95	90	100	100	100	100	100	110	100	95	105	90	130	120	110	105	80	100	105	90	90
Sulphate	(mg/L)	3	2	4	2	3	3	3	3	2	3	2	2	2	< 1	4	2	2	2	< 1	2	2	5	1	2	4	3
Acidity	(mg CaCO3/L)																										
Alkalinity	(mg CaCO3/L)	35	29	33	34	33	33	36	25	23	27	24	25	25	20	30	27	31	21	25	24	23	29	21	31	29	32
Total P	mg/L																										
TDP	mgP/L																										
Fluoride	mg/L		0.13				0.1				0.14				0.15				0.2				0.24				0.32
Chloride	mg/L		< 0.2				0.21				< 0.2				< 0.2				< 0.2				0.2				< 0.2
TDS	mg/L		77				54				42				30				17				63				27
Al	mg/L		< 0.005				0.014				< 0.005				0.013				0.022				0.022				0.019
Sb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
As	mg/L		< 0.001				0.002				0.001				< 0.001				< 0.001				0.001				< 0.001
Ba	mg/L		0.1				0.11				0.096				0.08				0.083				0.12				0.099
Be	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Bi	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
B	mg/L		0.27				0.32				0.21				0.14				0.15				0.31				0.25
Cd	mg/L		< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Ca	mg/L		4.47				5.04				4.17				3.11				3.17				4.96				4.64
Cr	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Co	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Cu	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Fe	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05
Pb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Li	mg/L		< 0.001				< 0.005				< 0.005				< 0.005				< 0.005				< 0.001				< 0.001
Mg	mg/L		1.02				1.17				0.94				0.81				0.83				1.29				1.08
Mn	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Hg	ug/L		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L		0.0011				0.0014				0.0008				0.0006				< 0.0005				0.0011				0.0012
Ni	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				0.001				0.002				0.002
P	mg/L		< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15
K	mg/L		6.5				7.1				6				4.2				4.3				7.2				6.8
Se	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Si	mg/L		5				6				4.8				3.3				3.6				6.1				6
Ag	mg/L		< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025
Na	mg/L		2.88				3.28				2.41				1.65				1.62				2.91				2.48
Sr	mg/L		0.061				0.072				0.055				0.042				0.039				0.074				0.063
Te	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Tl	mg/L		< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Th	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
Sn	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Ti	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
U	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
V	mg/L		0.002				0.002				0.002				< 0.001				< 0.001				0.002				0.002
Zn	mg/L		< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005
Zr	mg/L		< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01

Weeks	#	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Date		16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	11-Dec-07	18-Dec-07	25-Dec-07	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	12-Feb-08	19-Feb-08	26-Feb-08	4-Mar-08	11-Mar-08	18-Mar-08	25-Mar-08	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		495	465	470	490	485	490	500	475	495	500	500	480	510	475	500	490	440	500	500	400	460	475	475	500	500	490	505	485	490	475
pH	Effluent (units)	8.88	8.83	8.54	8.84	8.80	8.82	8.81	8.58	8.90	8.91	8.47	8.57	8.78	8.62	8.68	8.64	8.64	8.70	8.65	7.74	8.34	8.17	8.56	8.87	8.37	8.42	8.96	8.14	8.88	8.71
Cond.	(umhos/cm)	67	62	61	72	69	52	71	48	55	54	62	60	60	64	57	57	65	64	62	41	58	42	51	67	48	49	67	37	65	52
ORP	mV	80	85	85	70	70	95	95	100	90	110	100	105	90	95	95	90	90	95	70	110	115	115	145	100	160	140	160	160	150	150
Sulphate	(mg/L)	1	3	3	1	2	3	3	3	4	2	3	2	4	3	2	3	3	1	3	1	2	2	3	2	2	3	5	< 1	2	2
Acidity	(mg CaCO3/L)																				< 1		< 1						< 1		
Alkalinity	(mg CaCO3/L)	30	27	28	32	34	29	31	23	25	25	28	29	28	29	29	28	27	29	30	22	28	22	28	32	25	26	31	22	31	27
Total P	mg/L																								< 0.02				0.05		
TDP	mgP/L																								< 0.02				0.02		
Fluoride	mg/L				0.29				0.23				0.22				0.22				0.17				0.23				0.13		
Chloride	mg/L				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2		
TDS	mg/L				69				49				71				46				40				61	CCME DL			46	CCME DL	
Al	mg/L				0.018				0.011				0.026				< 0.005				0.018				0.007	0.006			0.016	0.015	
Sb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
As	mg/L				0.001				0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0004			< 0.001	0.0006	
Ba	mg/L				0.12				0.08				0.09				0.10				0.1				0.14	0.13			0.092	0.09	
Be	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Bi	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
B	mg/L				0.27				0.23				0.21				0.18				0.14				0.21	0.21			0.12	0.13	
Cd	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.00004			< 0.0002	< 0.00004	
Ca	mg/L				5.61				4.08				4.82				4.55				3.88				5.84	5.7			3.61	3.65	
Cr	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	0.0004	
Co	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Cu	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.001	0.0005			< 0.001	0.0007	
Fe	mg/L				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01			< 0.05	0.02	
Pb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Li	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				0.004				< 0.001	0.0004			< 0.001	0.0005	
Mg	mg/L				1.35				0.75				1.06				0.96				1.05				1.39	1.3			0.91	1.02	
Mn	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	0.0004	
Hg	ug/L				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02			< 0.02	< 0.02	
Mo	mg/L				0.0014				0.0011				0.0011				0.0009				0.0006				0.001	0.0007			0.0006	0.0006	
Ni	mg/L				0.001				< 0.001				0.001				< 0.001				0.002				< 0.001	0.0005			< 0.001	0.0006	
P	mg/L				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15	< 0.03			< 0.15	< 0.03	
K	mg/L				7				5.7				6.1				6.1				4.2				7.1	6.85			4.4	4.08	
Se	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Si	mg/L				6.9				4.4				5.8				5.3				3.6				7.1	7.07			4.2	4.16	
Ag	mg/L				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025	< 0.00005			< 0.00025	< 0.00005	
Na	mg/L				2.62				1.66				2				1.94				1.35				2.27	1.99			1.25	1.24	
Sr	mg/L				0.078				0.057				0.067				0.063				0.052				0.084	0.081			0.052	0.052	
Te	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Tl	mg/L				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.00002			< 0.0001	< 0.00002	
Th	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001	
Sn	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Ti	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0004			< 0.001	0.0005	
U	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001	
V	mg/L				0.003				0.002				0.002				0.002				< 0.001				0.002	0.0026			0.002	0.0013	
Zn	mg/L				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005	0.003			< 0.005	0.001	
Zr	mg/L				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.002			< 0.01	< 0.002	

Weeks	#	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
Date		########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	12-Aug-08	19-Aug-08	26-Aug-08	2-Sep-08	9-Sep-08	16-Sep-08	23-Sep-08	30-Sep-08	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		475	490	495	490	485	475	460	490	510	485	475	495	500	500	485	500	480	500	495	475	500	400	500	500	500	500	500	500	485	500
pH	Effluent (units)	8.52	8.85	8.87	8.88	8.63	8.59	8.90	8.98	8.97	9.02	9.00	8.87	7.59	7.60	7.60	8.56	8.01	8.27	8.66	8.45	8.73	8.35	8.86	7.79	8.70	8.5	8.1	8.42	8.59	8.32
Cond.	(umhos/cm)	45	57	62	58	50	45	68	64	62	64	65	65	26	25	26	31	34	30	36	45	47	52	52	62	64	60	72	68	68	64
ORP	mV	160	140	150	150	145	155	135	120	125	130	130	135	135	140	145	140	140	135	140	135	125	145	120	140	130	135	160	130	150	170
Sulphate	(mg/L)	< 1	< 1	3	3	< 1	< 1	1	1	1	3	2	1	< 1	1	< 1	< 1	< 1	1	1	3	< 1	1	1	1	3	2	2	1	1	< 1
Acidity	(mg CaCO3/L)													< 1	< 1	< 1		< 1	< 1						< 1			1			
Alkalinity	(mg CaCO3/L)	23	26	28	28	23	22	31	29	32	30	29	28	15	14	14	17	17	21	24	22	26	26	25	32	29	28	32	31	30	30
Total P	mg/L		< 0.02				0.02				< 0.02	< 0.02	< 0.02	0.02	0.02				< 0.02				< 0.02				< 0.02				< 0.02
TDP	mgP/L		< 0.02				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Fluoride	mg/L		0.21				0.11				0.24	0.21	0.19	< 0.05	< 0.05				< 0.05				0.14				0.13				0.25
Chloride	mg/L		< 0.2				< 0.2				< 0.2	1.75	< 0.2	< 0.2	< 0.2				< 0.2				0.66				< 0.2				< 0.2
TDS	mg/L		20	CCME DL			28	CCME DL			49	42	37	< 10	18				33				53				38				50
Al	mg/L		< 0.005	0.003			0.034	0.03			0.008	0.008	0.011	0.011	0.04				0.027				0.022				0.027				0.014
Sb	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
As	mg/L		< 0.001	0.0009			< 0.001	0.0006			0.0011	0.0011	0.001	0.0003	< 0.0002				0.0006				0.0007				0.0009				0.001
Ba	mg/L		0.13	0.129			0.1	0.099			0.136	0.135	0.149	0.072	0.079				0.104				0.147				0.154				0.171
Be	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Bi	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
B	mg/L		0.17	0.18			0.11	0.1			0.2	0.13	0.15	0.06	0.04				0.1				0.14				0.13				0.16
Cd	mg/L		< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004
Ca	mg/L		4.09	4.94			4.05	3.62			5.24	5.23	5.56	2.4	2.48				3.6				5.23				5.28				6.06
Cr	mg/L		< 0.001	0.0002			< 0.001	0.0005			0.0002	< 0.0002	0.0002	0.0002	0.0005				0.0005				0.0003				0.0004				0.0003
Co	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Cu	mg/L		< 0.001	0.0006			< 0.001	0.0012			0.0005	0.0005	0.0005	0.0015	0.0003				< 0.0002				0.0015				0.0014				0.0011
Fe	mg/L		< 0.05	< 0.01			0.05	0.04			0.01	< 0.01	0.01	0.01	0.06				0.05				0.03				0.04				0.03
Pb	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Li	mg/L		< 0.001	0.0004			< 0.001	< 0.0002			0.0002	< 0.0002	0.0002	< 0.0002	< 0.0002				0.0003				0.0004				< 0.0002				0.0003
Mg	mg/L		1.05	1.11			0.89	0.91			1.02	1.06	1.23	0.6	0.86				1.05				1.16				1.31				1.38
Mn	mg/L		< 0.001	< 0.0002			< 0.001	0.0007			0.0003	0.0003	0.0003	0.0004	0.001				0.0007				0.0007				0.0006				0.0005
Hg	ug/L		< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L		0.0007	0.0008			0.0006	0.0007			0.0009	0.0009	0.0009	0.0003	< 0.0001				0.0004				0.0008				0.0007				0.0008
Ni	mg/L		< 0.001	0.0005			0.001	0.0008			0.0007	0.0006	0.0008	0.0011	0.0026				0.0019				0.0015				0.0017				0.001
P	mg/L		< 0.15	< 0.03			< 0.15	< 0.03			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03				< 0.03				< 0.03				< 0.03				< 0.03
K	mg/L		5.4	5.32			4.6	4.76			5.92	6.09	6.55	2.7	2.62				4.04				5.59				5.57				6.05
Se	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Si	mg/L		5.2	5.15			4.4	4.32			5.71	6.3	6.78	2.1	2.04				3.73				5.69				6.69				8.03
Ag	mg/L		< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005
Na	mg/L		1.89	1.55			1.19	1.11			1.5	1.49	1.68	0.61	0.61				1.2				1.54				1.62				1.85
Sr	mg/L		0.058	0.061			0.053	0.054			0.086	0.081	0.081	0.033	0.033				0.052				0.083				0.079				0.092
Te	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Tl	mg/L		< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002
Th	mg/L		< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Sn	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Ti	mg/L		< 0.001	0.0003			< 0.001	0.0006			0.0004	0.0004	0.0004	0.0003	0.0007				0.0006				0.0007				0.0005				0.0004
U	mg/L		< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
V	mg/L		0.002	0.0022			0.002	0.0017			0.0026	0.0024	0.0026	0.0007	0.0006				0.0012				0.0022				0.0019				0.0023
Zn	mg/L		< 0.005	0.001			< 0.005	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				0.006				< 0.001				< 0.001				< 0.001
Zr	mg/L		< 0.01	< 0.002			< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002

Humidity Cell Sample Data

HC 24 - Processed Kimberlite Fines

S-Total:	0.02	%
S^{2-}:	0.02	%
NP:	127.00	t $CaCO_3$/1000 t
CaNP:	9.55	t $CaCO_3$/1000 t
AP:	0.63	t $CaCO_3$/1000 t

Weeks	#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Date		11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05	29-Nov-05	6-Dec-05	13-Dec-05	20-Dec-05	27-Dec-05	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	14-Feb-06	21-Feb-06
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		470	470	440	515	510	505	490	430	515	490	500	500	500	500	485	495	490	500	490	500
pH	Effluent (units)	8.25	8.83	9.05	9.19	9.30	9.42	9.34	9.41	9.46	9.36	9.10	9.33	8.93	8.81	9.35	9.16	9.30	9.25	9.02	9.24
Cond.	(umhos/cm)	578	330	234	131	142	131	135	125	111	105	101	93	69	85	81	86	105	87	96	94
ORP	mV	140	120	115	90	85	160	95	90	80	45	165	65	130	110	105	120	60	120	145	90
Sulphate	(mg/L)	3	2	2	3	3	3	4	3	3	< 1	2	3	3	2	2	2	2	2	2	2
Acidity	(mg CaCO3/L)	< 1																			
Alkalinity	(mg CaCO3/L)	65	33	26	28	28	35	36	40	43	25	40	38	33	35	35	36	38	42	40	39
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L	0.14				0.24				0.41				0.31				0.02			
Chloride	mg/L	126				20.2				6.2				3.0				2.0			
TDS	mg/L	359				116				104				78				91			
Al	mg/L	< 0.005				< 0.005				0.016				< 0.005				0.007			
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L	0.002				0.001				0.001				< 0.001				0.001			
Ba	mg/L	0.45				0.08				0.08				0.07				0.08			
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L	0.93				0.88				0.85				0.52				0.37			
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L	29.1				6.34				6.96				5.87				6.57			
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Cu	mg/L	0.003				0.001				0.001				< 0.001				< 0.001			
Fe	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L	0.003				< 0.001				< 0.001				< 0.001				< 0.001			
Mg	mg/L	2.58				0.41				0.46				0.42				0.35			
Mn	mg/L	< 0.001				< 0.001				0.001				< 0.001				< 0.001			
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Ni	mg/L	0.003				< 0.001				0.001				< 0.001				< 0.001			
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L	31.6				10.9				10.2				8.5				7.8			
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L	19.3				12.8				18.9				13.5				14.5			
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L	56.8				13.10				8.37				5.06				4.33			
Sr	mg/L	0.98				0.18				0.18				0.15				0.17			
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L	< 0.001				0.002				0.003				0.003				0.002			
Zn	mg/L	< 0.005				< 0.005				< 0.005				< 0.005				< 0.005			
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Date		28-Feb-06	7-Mar-06	14-Mar-06	21-Mar-06	28-Mar-06	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	16-May-06	23-May-06	30-May-06	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		485	480	510	505	505	475	485	505	505	505	500	495	475	490	500	505	485	505	485	505
pH	Effluent (units)	9.19	9.22	8.84	9.15	9.31	9.34	9.04	9.47	9.41	9.40	9.41	9.32	9.39	9.35	9.26	9.27	9.28	9.31	9.19	9.30
Cond.	(umhos/cm)	88	73	97	89	94	106	84	84	79	82	76	70	90	78	98	99	80	87	87	88
ORP	mV	70	100	120	130	120	115	135	110	90	80	80	120	90	110	130	130	120	110	95	90
Sulphate	(mg/L)	2	2	1	1	2	1	2	1	2	2	1	1	2	2	1	3	2	1	1	1
Acidity	(mg CaCO3/L)																				
Alkalinity	(mg CaCO3/L)	42	40	44	43	41	42	43	42	42	45	39	41	43	41	46	45	51	48	46	45
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L	0.20				0.20				0.22				0.20				0.15			
Chloride	mg/L	1.5				1.2				1.1				0.9				1.0			
TDS	mg/L	92				66				100				176				88			
Al	mg/L	0.008				0.04				0.023				< 0.005				< 0.005			
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L	< 0.001				0.001				0.002				0.001				0.001			
Ba	mg/L	0.10				0.11				0.11				0.13				0.12			
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L	0.35				0.35				0.32				0.26				0.20			
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L	7.27				8.23				7.91				9.32				8.40			
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Cu	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Fe	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Mg	mg/L	0.41				0.6				0.53				0.54				0.54			
Mn	mg/L	< 0.001				< 0.001				< 0.001				0.003				< 0.001			
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Ni	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L	8.3				8.6				8.3				9.6				7.9			
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L	16.5				19.5				19.3				19.9				18.2			
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L	4.41				4.37				3.60				3.64				3.51			
Sr	mg/L	0.19				0.21				0.21				0.26				0.21			
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L	0.002				0.003				0.003				0.003				0.002			
Zn	mg/L	< 0.005				0.007				< 0.005				< 0.005				< 0.005			
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Date		18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	15-Aug-06	22-Aug-06	29-Aug-06	5-Sep-06	12-Sep-06	19-Sep-06	26-Sep-06	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06	14-Nov-06	21-Nov-06	28-Nov-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		505	455	505	505	480	495	505	505	470	505	485	500	495	460	460	505	495	470	445	505
pH	Effluent (units)	9.28	9.28	9.29	9.29	9.27	9.13	9.29	9.09	9.16	9.27	9.07	9.16	9.20	9.19	9.30	9.30	9.20	9.13	9.19	9.21
Cond.	(umhos/cm)	89	92	89	82	87	82	86	84	102	90	94	107	97	111	91	84	100	84	87	95
ORP	mV	90	90	80	100	80	60	135	140	120	80	95	85	85	115	85	90	85	85	75	75
Sulphate	(mg/L)	1	2	1	1	2	2	1	2	2	1	1	1	2	1	2	1	2	1	< 1	1
Acidity	(mg CaCO3/L)																				
Alkalinity	(mg CaCO3/L)	47	51	46	49	44	45	44	42	52	44	47	50	54	53	46	36	49	46	54	45
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L	0.19				0.18				0.17				0.16				0.17			
Chloride	mg/L	0.6				1.1				1.0				0.7				0.7			
TDS	mg/L	89				80				82				147				87			
Al	mg/L	< 0.005				0.011				0.012				0.016				0.015			
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L	0.001				0.001				0.001				0.001				0.002			
Ba	mg/L	0.15				0.16				0.18				0.19				0.24			
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L	0.22				0.31				0.21				0.24				0.26			
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L	8.6				9.22				10.8				10.9				12.5			
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Cu	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				0.001			
Fe	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Mg	mg/L	0.6				0.62				0.85				0.94				0.88			
Mn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Ni	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L	9.1				9.7				8.9				10.3				11.3			
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L	22.3				22.4				24.2				24.8				22.0			
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L	4.1				3.9				3.57				4.53				4.41			
Sr	mg/L	0.24				0.23				0.28				0.29				0.32			
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L	0.003				0.003				0.002				0.003				0.003			
Zn	mg/L	< 0.005				< 0.005				< 0.005				< 0.005				< 0.005			
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Date		5-Dec-06	12-Dec-06	19-Dec-06	26-Dec-06	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	13-Feb-07	20-Feb-07	27-Feb-07	6-Mar-07	13-Mar-07	20-Mar-07	27-Mar-07	3-Apr-07	10-Apr-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		470	410	505	505	480	495	495	425	505	500	485	500	515	451	505	490	440	505	505
pH	Effluent (units)	9.06	9.09	9.14	9.16	9.07	9.04	8.99	8.73	9.08	9.01	8.98	9.05	9.01	9.00	9.10	9.10	8.99	9.07	9.10
Cond.	(umhos/cm)	106	110	92	94	100	101	122	121	88	108	102	94	115	107	92	114	109	111	108
ORP	mV	75	100	110	95	110	110	115	105	105	90	100	95	105	95	100	95	105	90	90
Sulphate	(mg/L)	1	1	2	1	1	1	2	2	< 1	2	1	1	2	1	2	1	1	1	3
Acidity	(mg CaCO3/L)																			
Alkalinity	(mg CaCO3/L)	52	56	47	50	55	52	54	54	44	57	54	53	58	57	49	57	59	52	56
Total P	mg/L																			
TDP	mgP/L																			
Fluoride	mg/L	< 0.05				< 0.05				< 0.05				0.16				0.2		
Chloride	mg/L	0.4				0.4				0.34				0.37				0.39		
TDS	mg/L	80				63				69				134				111		
Al	mg/L	< 0.005				< 0.005				0.007				0.007				0.011		
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
As	mg/L	0.001				0.001				0.001				0.001				0.001		
Ba	mg/L	0.2				0.23				0.17				0.26				0.27		
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
B	mg/L	0.16				0.17				0.15				0.19				0.19		
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002		
Ca	mg/L	9.96				10.8				8.48				11.4				11.2		
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Cu	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Fe	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05		
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Li	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Mg	mg/L	0.86				0.98				0.96				1.26				1.38		
Mn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02		
Mo	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005		
Ni	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15		
K	mg/L	8.7				8.9				8.6				10.5				10		
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Si	mg/L	19.1				20.6				26.3				28.2				28.8		
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025		
Na	mg/L	3.91				4.77				5.19				5.98				5.81		
Sr	mg/L	0.26				0.29				0.22				0.32				0.3		
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001		
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005		
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Ti	mg/L	< 0.001				0.001				< 0.001				0.001				0.001		
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005		
V	mg/L	0.002				0.002				0.002				0.002				0.002		
Zn	mg/L	< 0.005				< 0.005				< 0.005				< 0.005				< 0.005		
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01		

Humidity Cell Sample Data

HC 24 - Processed Kimberlite Fines

Weeks	#	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
Date		17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	14-Aug-07	21-Aug-07	28-Aug-07	4-Sep-07	11-Sep-07	18-Sep-07	25-Sep-07	2-Oct-07	9-Oct-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		480	505	465	500	480	505	440	500	490	435	505	485	490	495	505	490	465	500	475	505	505	505	475	500	480	500
pH	Effluent (units)	9.00	8.98	8.94	9.01	8.95	8.95	8.96	9.04	8.98	8.83	9.04	8.94	8.90	8.99	8.89	8.87	8.91	8.99	8.94	8.95	8.94	8.91	8.93	9.00	9.03	8.96
Cond.	(umhos/cm)	112	99	106	93	106	111	108	99	110	120	100	109	114	98	117	110	125	103	109	109	106	116	108	102	98	92
ORP	mV	100	90	85	100	90	90	90	90	90	95	90	90	90	90	90	90	90	70	75	80	75	80	80	90	75	80
Sulphate	(mg/L)	1	1	1	1	1	1	2	1	2	1	1	1	1	< 1	< 1	1	1	2	< 1	2	1	3	1	1	1	1
Acidity	(mg CaCO3/L)																										
Alkalinity	(mg CaCO3/L)	55	54	59	55	55	56	58	49	65	61	50	56	60	51	61	57	61	51	54	57	54	59	53	52	51	50
Total P	mg/L																										
TDP	mgP/L																										
Fluoride	mg/L		< 0.05				< 0.05				0.09				0.12				< 0.05				0.11				0.1
Chloride	mg/L		0.36				0.41				< 0.2				0.32				0.28				0.29				0.26
TDS	mg/L		93				133				116				116				89				109				92
Al	mg/L		< 0.005				< 0.005				< 0.005				< 0.005				0.013				0.019				0.008
Sb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
As	mg/L		0.001				0.001				0.001				0.001				< 0.001				0.001				< 0.001
Ba	mg/L		0.25				0.27				0.29				0.24				0.24				0.29				0.24
Be	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Bi	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
B	mg/L		0.17				0.17				0.15				0.14				0.13				0.17				0.11
Cd	mg/L		< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Ca	mg/L		9.6				9.96				11.1				8.75				8.23				11.1				8.5
Cr	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Co	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Cu	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Fe	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05
Pb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Li	mg/L		< 0.001				< 0.005				< 0.005				< 0.005				< 0.005				< 0.001				< 0.001
Mg	mg/L		1.17				1.25				1.47				1.12				1.15				1.88				1.09
Mn	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Hg	ug/L		< 0.02				0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
Ni	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
P	mg/L		< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15
K	mg/L		9.5				9.6				10.2				8.6				8.3				10.3				7.9
Se	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Si	mg/L		25.4				26.1				29.5				24.6				24.6				27.7				21.1
Ag	mg/L		< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025
Na	mg/L		5.22				5.17				5.24				4.65				4.75				6.12				4.05
Sr	mg/L		0.28				0.29				0.3				0.23				0.22				0.32				0.24
Te	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Tl	mg/L		< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Th	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
Sn	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Ti	mg/L		< 0.001				< 0.001				< 0.001				0.001				< 0.001				< 0.001				< 0.001
U	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
V	mg/L		0.002				0.002				0.002				0.002				0.002				0.003				0.002
Zn	mg/L		< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005
Zr	mg/L		< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01

Weeks	#	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Date		16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	11-Dec-07	18-Dec-07	25-Dec-07	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	12-Feb-08	19-Feb-08	26-Feb-08	4-Mar-08	11-Mar-08	18-Mar-08	25-Mar-08	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		480	500	485	490	485	505	470	480	505	480	500	490	500	515	485	475	505	480	500	490	485	485	495	495	495	490	480	480	500	445
pH	Effluent (units)	8.95	8.95	8.97	8.89	8.87	8.89	8.59	8.55	8.98	8.94	8.88	8.90	8.97	9.01	9.02	9.02	8.96	8.98	9.04	8.96	8.80	8.86	8.88	8.92	8.80	8.88	8.87	8.90	8.86	8.85
Cond.	(umhos/cm)	112	108	104	116	109	106	117	101	101	87	85	98	95	89	95	95	90	92	90	99	109	113	91	104	118	124	118	118	119	112
ORP	mV	90	90	80	90	80	80	75	75	80	85	80	80	80	65	60	70	70	60	55	60	70	75	120	80	130	100	115	110	110	110
Sulphate	(mg/L)	< 1	2	2	< 1	< 1	1	1	< 1	< 1	< 1	1	1	2	< 1	< 1	< 1	2	2	< 1	1	< 1	1	1	1	1	< 1	< 1	< 1	1	< 1
Acidity	(mg CaCO3/L)																														
Alkalinity	(mg CaCO3/L)	55	54	53	53	53	53	53	50	50	45	44	45	43	45	46	49	42	46	47	51	54	57	49	53	58	63	58	58	58	60
Total P	mg/L																								0.02				0.03		
TDP	mgP/L																								< 0.02				0.03		
Fluoride	mg/L				0.13				0.15				0.16				0.11				0.12				0.12				0.1		
Chloride	mg/L				0.28				0.44				0.29				0.31				0.28				0.29				< 0.2		
TDS	mg/L				100				118				62				< 10				107				106	CCME DL			115	CCME DL	
Al	mg/L				0.006				0.005				0.048				< 0.005				0.012				< 0.005	0.004			0.009	0.004	
Sb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
As	mg/L				0.001				0.001				0.001				< 0.001				< 0.001				< 0.001	0.0008			< 0.001	0.0008	
Ba	mg/L				0.3				0.26				0.22				0.27				0.3				0.32	0.298			0.34	0.345	
Be	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Bi	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
B	mg/L				0.11				0.13				0.12				0.11				0.13				0.11	0.11			0.1	0.11	
Cd	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.00004			< 0.0002	< 0.00004	
Ca	mg/L				10.4				9.58				8.15				9.69				11.3				10.5	9.88			11.3	11	
Cr	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Co	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Cu	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.001	0.0004			< 0.001	0.0004	
Fe	mg/L				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01			< 0.05	< 0.01	
Pb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Li	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				0.005				< 0.001	< 0.0002			< 0.001	0.0002	
Mg	mg/L				1.5				1.08				1.03				1.18				1.6				1.5	1.44			1.76	1.71	
Mn	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Hg	ug/L				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02			< 0.02	< 0.02	
Mo	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001	
Ni	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0002			< 0.001	0.0003	
P	mg/L				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15	< 0.03			< 0.15	< 0.03	
K	mg/L				8.6				8.2				7.2				8.2				8.3				8.6	7.79			8.7	8.09	
Se	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Si	mg/L				23.9				23.9				22.7				22.2				21.7				23.4	21.6			24	23.8	
Ag	mg/L				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025	< 0.00005			< 0.00025	< 0.00005	
Na	mg/L				4.83				4				3.69				3.61				4.09				4.68	4.57			5.29	5.34	
Sr	mg/L				0.28				0.25				0.21				0.24				0.27				0.28	0.246			0.28	0.281	
Te	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Tl	mg/L				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.00002			< 0.0001	< 0.00002	
Th	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001	
Sn	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Ti	mg/L				0.001				< 0.001				0.001				0.001				0.001				0.001	0.0008			0.002	0.0008	
U	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001	
V	mg/L				0.002				0.003				0.003				0.003				< 0.001				0.002	0.0025			0.002	0.0023	
Zn	mg/L				< 0.005				< 0.005				0.005				< 0.005				< 0.005				< 0.005	< 0.001			< 0.005	< 0.001	
Zr	mg/L				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.002			< 0.01	< 0.002	

Weeks	#	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
Date		########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	12-Aug-08	19-Aug-08	26-Aug-08	2-Sep-08	9-Sep-08	16-Sep-08	23-Sep-08	30-Sep-08	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		490	480	515	510	480	485	500	460	495	495	495	490	450	490	490	490	500	500	485	500	490	490	500	500	485	500	500	495	490	485
pH	Effluent (units)	8.75	8.90	8.99	9.01	9.02	9.02	9.03	8.98	9.07	9.06	9.00	8.88	8.66	8.73	8.90	9.02	8.85	8.94	8.87	8.92	8.81	8.85	8.99	8.79	8.73	8.79	8.71	8.73	8.81	8.53
Cond.	(umhos/cm)	121	102	97	103	100	91	93	93	90	97	84	109	104	110	117	91	101	89	103	96	103	106	110	119	132	110	117	116	125	111
ORP	mV	140	120	90	110	90	70	90	90	100	105	110	115	130	90	110	100	110	110	90	105	100	120	115	120	125	130	130	130	120	80
Sulphate	(mg/L)	< 1	< 1	2	1	< 1	< 1	1	2	< 1	1	< 1	< 1	< 1	1	1	< 1	2	1	1	2	1	1	< 1	< 1	< 1	1	1	2	< 1	< 1
Acidity	(mg CaCO3/L)																														
Alkalinity	(mg CaCO3/L)	61	48	49	48	48	48	48	46	46	46	42	52	55	57	57	47	54	51	54	51	56	54	50	58	60	52	56	55	58	55
Total P	mg/L		0.03				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				0.02				0.02				< 0.02				< 0.02
TDP	mgP/L		< 0.02				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Fluoride	mg/L		0.09				0.1				0.1	0.11	< 0.05	< 0.05	0.17				< 0.05				0.09				0.07				0.17
Chloride	mg/L		0.22				0.23				0.22	0.83	0.26	0.28	0.28				0.26				0.35				0.42				0.33
TDS	mg/L		64	CCME DL			100	CCME DL			89	86	78	94	117				105				95				102				116
Al	mg/L		0.008	0.009			0.017	0.012			0.008	0.01	0.005	0.003	0.009				0.014				0.009				0.004				0.007
Sb	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
As	mg/L		< 0.001	0.0009			< 0.001	0.0009			0.001	0.001	0.0009	0.0009	0.0009				0.0008				0.0007				0.0009				0.0011
Ba	mg/L		0.27	0.279			0.25	0.245			0.261	0.231	0.342	0.381	0.355				0.303				0.337				0.351				0.387
Be	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Bi	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
B	mg/L		0.12	0.12			0.08	0.08			0.12	0.07	0.09	0.09	0.11				0.15				0.1				0.1				0.13
Cd	mg/L		< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004
Ca	mg/L		7.86	7.87			8.89	8.02			8.49	7.33	10.1	11.3	10.6				9.67				9.87				9.79				10.9
Cr	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				0.0003				0.0002				< 0.0002				< 0.0002
Co	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Cu	mg/L		< 0.001	0.0008			< 0.001	0.0011			0.0005	0.0006	0.0017	0.0025	0.0006				0.001				0.0027				0.0018				0.0012
Fe	mg/L		< 0.05	< 0.01			0.06	0.02			0.01	< 0.01	< 0.01	< 0.01	< 0.01				0.04				< 0.01				< 0.01				< 0.01
Pb	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Li	mg/L		< 0.001	0.0003			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002				0.0004				0.0004				< 0.0002				0.0003
Mg	mg/L		1.45	1.33			1.43	1.41			1.11	1.03	1.54	1.83	1.81				1.86				1.54				1.61				1.97
Mn	mg/L		< 0.001	< 0.0002			< 0.001	0.0005			0.0005	0.0006	0.0003	0.0002	0.0005				0.0008				0.0005				0.0003				0.0005
Hg	ug/L		< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L		< 0.0005	< 0.0001			< 0.0005	0.0003			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Ni	mg/L		< 0.001	0.0004			< 0.001	0.0006			0.0005	0.0005	< 0.0002	0.0002	0.0004				0.0006				0.0005				0.0002				0.0004
P	mg/L		< 0.15	< 0.03			< 0.15	< 0.03			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03				< 0.03				< 0.03				< 0.03				< 0.03
K	mg/L		6.9	6.92			6.6	6.59			6.53	6.14	8.03	8.79	8.66				7.46				7.05				7.25				7.77
Se	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Si	mg/L		22.8	22.7			21.1	21.7			19.2	18.5	21.5	23.6	24.5				23.5				22				26.1				30.4
Ag	mg/L		< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005
Na	mg/L		5.74	4.73			3.96	3.92			3.34	3.03	4.17	4.68	5.2				5.98				4.45				5.2				6.18
Sr	mg/L		0.2	0.225			0.2	0.208			0.228	0.189	0.26	0.289	0.27				0.223				0.262				0.236				0.268
Te	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Tl	mg/L		< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002
Th	mg/L		< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Sn	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Ti	mg/L		< 0.001	0.0009			0.002	0.001			0.0011	0.0012	0.0009	0.0008	0.0011				0.002				0.0017				0.0006				0.0009
U	mg/L		< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
V	mg/L		0.002	0.0028			0.003	0.0029			0.0035	0.003	0.0027	0.0025	0.0028				0.0029				0.0027				0.0025				0.0027
Zn	mg/L		< 0.005	0.001			< 0.005	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				0.009				< 0.001				< 0.001				< 0.001
Zr	mg/L		< 0.01	< 0.002			< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002

Humidity Cell Sample Data

HC 25 - Processed Kimberlite Fine

S-Total:	0.06	%
S^{2-}:	0.07	%
NP:	81.50	t CaCO3/1000 t
CaNP:	14.77	t CaCO3/1000 t
AP:	2.03	t CaCO3/1000 t

Weeks	#	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	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Date		11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05	29-Nov-05	6-Dec-05	13-Dec-05	20-Dec-05	27-Dec-05	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	14-Feb-06	21-Feb-06	28-Feb-06	7-Mar-06	14-Mar-06	21-Mar-06	28-Mar-06	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	16-May-06	23-May-06	30-May-06	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	15-Aug-06	22-Aug-06	29-Aug-06	5-Sep-06	12-Sep-06	19-Sep-06	26-Sep-06	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06	14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	12-Dec-06	19-Dec-06	26-Dec-06	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	13-Feb-07	20-Feb-07	27-Feb-07	6-Mar-07	13-Mar-07	20-Mar-07	27-Mar-07
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		450	440	465	505	515	470	440	425	275	500	490	500	485	500	500	510	465	485	475	505	485	500	495	505	440	500	495	460	492	505	500	495	500	425	410	490	505	490	505	500	495	505	500	495	505	495	505	510	495	495	505	490	505	485	505	490	505	495	505	490	505	485	505	490	505	495	505	490	505	485	505	490	505	495
pH	Effluent (units)	8.12	8.26	8.35	8.48	8.63	8.80	8.47	8.68	8.57	8.42	8.41	8.49	8.43	8.42	8.49	8.73	8.72	8.71	8.68	8.78	8.60	8.77	8.76	8.36	8.75	8.87	8.95	8.91	8.95	8.93	8.90	8.99	8.83	8.94	8.95	8.81	8.91	8.95	8.93	8.59	8.83	8.99	8.90	9.03	8.91	8.97	8.91	8.85	8.82	8.60	8.83	8.88	8.90	8.72	8.73	8.76	8.71	8.70	8.90	8.52	8.64	8.37	8.52	8.95	8.48	8.55	8.52	8.57	8.52	8.51	8.56	8.53	8.58	8.62	8.45	8.48	8.52	8.56	8.53	8.47	8.59
Cond.	Eh/mho/cm	667	525	356	195	109	150	100	190	146	133	133	110	112	97	110	95	103	110	97	109	106	94	98	102	86	93	105	86	77	75	96	76	76	86	90	85	82	83	75	92	80	79	80	76	80	84	95	95	111	96	98	102	116	121	122	117	124	110	110	134	120	134	122	128	130	134	146	123	130	154	127	109	128	116	131	127	127	115	124
ORP	mV	150	145	150	115	100	165	135	110	90	115	80	90	145	135	110	125	125	110	155	110	90	100	90	135	130	105	120	140	90	80	95	115	95	105	100	140	130	120	110	100	110	100	110	120	100	90	80	70	105	95	90	95	100	100	105	115	100	100	110	110	105	110	115	115	105	100	105	105	110	95	105	110	95
Sulphate	(mg/L)	36	28	28	28	26	22	18	16	15	11	11	11	10	9	9	8	8	8	8	8	8	6	6	6	7	7	5	5	5	7	5	4	5	6	5	6	5	4	4	5	5	5	3	4	4	4	4	4	4	4	4	4	3	3	3	3	2	2	4	3	3	3	2	2	4	3	3	3	2	2	4	3	3
Acidity	(mg CaCO3/L)	2	< 1																																																																																				
Alkalinity	(mg CaCO3/L)	109	46	45	43	43	40	36	46	46	46	41	41	39	40	38	37	40	42	41	40	40	37	39	34	38	38	38	36	36	44	36	36	37	43	40	38	41	41	42	41	40	42	38	42	38	44	46	43	52	44	45	56	58	56	61	52	60	54	54	63	54	66	60	61	67	61	63	60	59	54	65	55	61	60	65	64	65	62	63
Total P	mg/L																																																																																							
TDP	mg/L																																																																																							
Fluoride	mg/L	0.68				0.53			0.72				0.50				0.50				0.51				0.47				0.39				0.40				0.37				0.39				0.32				0.28				0.24				0.27				0.28				0.23				0.22				0.24								
Chloride	mg/L	110				12.2			1.5				0.5				0.4				0.5				0.5				0.4				0.5				0.6				0.2				0.6				0.4				0.46				< 0.2				< 0.2				< 0.2				0.2								
TDS	mg/L	449				115			89				57				63				57				112				63				115				68				62				14				19				108				115				70				88				81				70								
As	mg/L	< 0.001				0.004			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.061				0.028				0.023				0.027				0.013				0.016				0.020				< 0.001				< 0.001				< 0.001				0.010								
Ba	mg/L	< 0.001				< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001								
Be	mg/L	< 0.005				< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001								
Bi	mg/L	< 0.005				< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001								
B	mg/L	1.57				1.27			0.97				0.65				0.52				0.45				0.4				0.31				0.43				0.26				0.24				0.28				0.21				0.24				0.28				0.19				0.2				0.17				0.19				0.17								
Cd	mg/L	< 0.0002				< 0.0002			< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002								
Ca	mg/L	54.8				11.60			8.04				6.86				7.32				7.27				8.02				7.33				5.38				9.04				8.56				8.9				11				13.5				15.2				11.1				14.8				12.3				13.6				13.2								
Cr	mg/L	< 0.001				< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001								
Co	mg/L	< 0.001				< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001								
Cu	mg/L	0.005				0.001			0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001								
Fe	mg/L	< 0.05				< 0.05			0.06				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				0.07				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05								
Pb	mg/L	< 0.001				< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001								
Li	mg/L	0.01				0.001			0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001								
Mg	mg/L	14.6				3.61			2.85				2.20				2.53				2.45				2.74				2.37				2.70				2.82				2.84				2.53				2.45				4.51				4.41				5.08				4.88				4.67				4.74								
Mn	mg/L	0.003				< 0.001			0.002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001								
Mo	mg/L	< 0.01				0.01			< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01								
Na	mg/L	0.0064				0.0054			0.0047				0.0044				0.0047				0.0049				0.0039				0.0036				0.0032				0.0033				0.0034				0.0034				0.0034				0.0034				0.0034				0.0034				0.0034				0.0034				0.0034				0.0034								
Ni	mg/L	0.008				0.003			0.005				0.002				0.002				0.002				0.003				0.002				< 0.002				0.002				0.003				0.001				0.001				0.001				0.001				0.001				0.001				0.001				0.001				0.001								
P	mg/L	< 0.15				< 0.15			< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15								
K	mg/L	17.8				5.7			5.2				5.3				5.1				5.1				5.2				5.3				5.6				5.6				6.2				5.6				6.8				6.6				8.1				7.2				8.1				9.5				8.4								
Se	mg/L	< 0.001				< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001								
Si	mg/L	15.2				7.5			7.3				6.0				6.3				6.3				6.4				5.4				5.4				5.3				6.7				5.8				6.7				7.9				7.6				7.3				8.2				9.7				10.2				9.1								
Ag	mg/L	< 0.00025				< 0.00025			< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025								
Na	mg/L	42.6				15.9			10.6				8.71				9.59				9.91				9.80				9.02				9.84				10.3				11.5				11.4				11.4				11.4				11.4				11.4				11.4				11.4				11.4				11.4				11.4								
Sr	mg/L	0.59				0.110			0.077				0.064				0.069				0.071				0.075				0.074				0.073				0.046				0.076				0.083				0.081				0.1				0.13				0.14				0.1				0.14				0.12				0.13				0.13								
Te	mg/L	< 0.001				< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001								
Ti	mg/L	< 0.0001				< 0.0001			< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001								
Th	mg/L	< 0.0005				< 0.0005			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005								
Sn	mg/L	< 0.001				< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001								
Ti	mg/L	< 0.003				< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001								
U	mg/L	< 0.0005				< 0.0005			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005								
V	mg/L	< 0.001				0.002			< 0.001				0.002				0.001				0.001				0.001				0.001				0.001				0.001				0.001				0.001				0.001				0.001				0.001				0.001				0.001				0.001				0.001				0.001				0.001								
W	mg/L	< 0.01				< 0.01			< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01								
Zn	mg/L	< 0.01				< 0.01			< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01								

Humidity Cell Sample Data

HC 25 - Processed Kimberlite Fine

Weeks	#	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
Date		17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	14-Aug-07	21-Aug-07	28-Aug-07	4-Sep-07	11-Sep-07	18-Sep-07	25-Sep-07	2-Oct-07	9-Oct-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		470	505	470	500	505	500	495	490	500	494	505	485	480	505	470	505	490	505	500	485	500	500	500	500	485	495
pH	Effluent (units)	8.49	8.49	8.43	8.43	8.54	8.51	8.57	8.48	8.48	8.50	8.50	8.50	8.49	8.52	8.45	8.53	8.42	8.48	8.52	8.55	8.59	8.49	8.55	8.48	8.56	8.44
Cond.	(umhos/cm)	137	116	119	118	105	117	124	140	134	118	133	132	126	115	120	110	128	110	111	125	109	130	104	105	103	99
ORP	mV	105	90	95	105	105	100	95	100	105	110	100	100	110	100	110	130	100	115	100	105	100	105	110	100	95	110
Sulphate	(mg/L)	2	2	3	1	2	2	2	4	1	2	3	2	3	1	1	2	2	2	< 1	2	2	4	2	4	2	1
Acidity	(mg CaCO3/L)																										
Alkalinity	(mg CaCO3/L)	65	57	60	60	52	60	63	68	61	57	58	63	64	56	58	54	61	54	52	53	53	61	51	52	51	47
Total P	mg/L																										
TDP	mgP/L																										
Fluoride	mg/L		0.2				< 0.05				0.14				0.27				0.29				0.17				0.2
Chloride	mg/L		< 0.2				0.22				0.2				< 0.2				< 0.2				< 0.2				< 0.2
TDS	mg/L		67				62				73				75				63				63				47
Al	mg/L		0.006				< 0.005				0.01				0.023				0.008				0.006				0.007
Sb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
As	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Ba	mg/L		0.14				0.16				0.14				0.15				0.15				0.17				0.14
Be	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Bi	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
B	mg/L		0.17				0.13				0.12				0.12				0.11				0.13				0.08
Cd	mg/L		< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Ca	mg/L		11.7				12.6				11.4				10.7				10.4				12.8				9.08
Cr	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Co	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Cu	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Fe	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05
Pb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Li	mg/L		0.001				< 0.005				< 0.005				< 0.005				< 0.005				< 0.001				< 0.001
Mg	mg/L		4.27				4.25				3.78				3.91				3.88				4.87				3.09
Mn	mg/L		< 0.001				< 0.001				< 0.001				0.001				< 0.001				< 0.001				< 0.001
Hg	ug/L		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L		0.0015				0.0013				0.0011				0.0016				0.001				0.0012				0.0009
Ni	mg/L		0.001				0.001				0.001				0.002				0.001				0.001				< 0.001
P	mg/L		< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15
K	mg/L		8				7.8				7.6				7.4				7.3				8.4				6.5
Se	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Si	mg/L		8.8				6.6				7				7.5				7.2				8				5.6
Ag	mg/L		< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025
Na	mg/L		1.35				1.23				1.13				1.26				1.16				1.34				1
Sr	mg/L		0.11				0.12				0.1				0.11				0.1				0.13				0.087
Te	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Tl	mg/L		< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Th	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
Sn	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Ti	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
U	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
V	mg/L		< 0.001				< 0.001				< 0.001				0.001				< 0.001				< 0.001				< 0.001
Zn	mg/L		< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005
Zr	mg/L		< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01

Weeks	#	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Date		16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	11-Dec-07	18-Dec-07	25-Dec-07	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	12-Feb-08	19-Feb-08	26-Feb-08	4-Mar-08	11-Mar-08	18-Mar-08	25-Mar-08	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		500	505	500	495	495	500	475	495	505	480	490	485	485	500	500	455	490	490	480	495	490	490	495	495	485	490	485	445	495	490
pH	Effluent (units)	8.55	8.57	8.54	8.47	8.52	8.56	8.32	8.10	8.56	8.48	8.46	8.09	8.48	8.48	8.47	8.38	8.52	8.56	8.41	8.43	8.33	8.36	8.36	8.50	8.52	8.50	8.49	8.47	8.55	8.50
Cond.	(umhos/cm)	101	110	112	125	113	113	118	93	87	83	94	95	111	96	89	87	91	93	90	102	122	104	102	94	127	129	127	131	102	117
ORP	mV	100	100	95	90	90	100	95	110	90	105	90	100	90	95	90	95	85	80	85	90	90	95	130	105	150	130	140	145	145	140
Sulphate	(mg/L)	2	2	2	1	1	2	1	1	1	1	1	2	2	3	4	2	1	1	2	2	1	2	3	1	1	< 1	< 1	< 1	2	1
Acidity	(mg CaCO3/L)								< 1				< 1																		
Alkalinity	(mg CaCO3/L)	49	52	54	60	54	56	55	45	42	42	46	43	49	45	42	43	43	40	40	49	62	50	52	47	63	64	63	64	52	57
Total P	mg/L																								0.04				0.04		
TDP	mgP/L																								< 0.02				< 0.02		
Fluoride	mg/L				0.18				0.18				0.18				0.16				0.16				0.18				0.17		
Chloride	mg/L				< 0.2				0.21				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2		
TDS	mg/L				76				50				95				49				75				68	CCME DL			90	CCME DL	
Al	mg/L				0.006				0.013				0.017				0.008				0.029				0.009	0.004			0.014	0.017	perhaps sample con
Sb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
As	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0005			< 0.001	0.0006	
Ba	mg/L				0.18				0.14				0.13				0.14				0.17				0.18	0.164			0.24	0.241	
Be	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Bi	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
B	mg/L				0.09				0.09				0.08				0.06				0.1				0.08	0.09			0.09	0.1	
Cd	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.00004			< 0.0002	< 0.00004	
Ca	mg/L				11.5				9.4				8.34				8.35				10.4				9.57	9.18			13.4	13.7	
Cr	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	0.0004	
Co	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Cu	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.001	0.0004			< 0.001	0.0005	
Fe	mg/L				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05	< 0.01			< 0.05	0.02	
Pb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Li	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				0.005				< 0.001	0.0006			< 0.001	0.0008	
Mg	mg/L				3.96				2.76				2.85				3.03				3.97				3.48	3.57			5.07	5.24	
Mn	mg/L				< 0.001				< 0.001				< 0.001				0.002				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Hg	ug/L				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02			< 0.02	< 0.02	
Mo	mg/L				0.0012				0.0009				0.001				0.001				0.001				0.001	0.001			0.0011	0.0012	
Ni	mg/L				0.001				< 0.001				0.001				0.001				0.002				0.002	0.0007			0.001	0.0018	
P	mg/L				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15	< 0.03			< 0.15	< 0.03	
K	mg/L				6.6				6.4				5.6				5.6				6.1				6.2	6.06			7.2	6.61	
Se	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Si	mg/L				6.6				5.6				5.9				4.9				5.8				6.4	6.36			7.8	7.72	
Ag	mg/L				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025	< 0.00005			< 0.00025	< 0.00005	
Na	mg/L				1.11				0.84				0.99				1.02				0.98				1.04	0.99			1.2	1.13	
Sr	mg/L				0.12				0.089				0.087				0.083				0.1				0.1	0.096			0.14	0.144	
Te	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Tl	mg/L				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.00002			< 0.0001	0.00003	
Th	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001	
Sn	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Ti	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0003			< 0.001	0.0005	
U	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001	
V	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.001			0.001	0.001	
Zn	mg/L				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005	0.001			< 0.005	0.002	
Zr	mg/L				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.002			< 0.01	< 0.002	

Weeks	#	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
Date		########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	12-Aug-08	19-Aug-08	26-Aug-08	2-Sep-08	9-Sep-08	16-Sep-08	23-Sep-08	30-Sep-08	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		460	490	505	490	505	510	480	460	505	495	500	490	460	470	490	500	500	480	500	500	455	500	500	495	480	500	465	500	510	470
pH	Effluent (units)	8.38	8.32	8.51	8.54	8.59	8.54	8.44	8.55	8.56	8.61	8.39	8.46	8.29	8.24	8.42	8.51	8.25	8.36	8.41	8.44	8.43	8.36	8.54	8.16	8.17	8.23	8.13	8.21	8.27	8.14
Cond.	(umhos/cm)	129	113	105	107	98	96	102	87	85	100	97	93	135	128	134	101	112	103	93	107	114	121	108	127	152	124	145	130	131	138
ORP	mV	160	135	130	130	145	145	135	140	140	145	150	130	140	150	140	130	140	140	130	130	130	135	135	145	140	160	160	165	165	150
Sulphate	(mg/L)	< 1	< 1	2	2	2	1	< 1	2	2	2	< 1	1	< 1	2	2	1	1	2	1	3	2	1	2	< 1	2	< 1	2	1	1	< 1
Acidity	(mg CaCO3/L)													< 1	< 1			< 1							< 1	< 1	< 1	< 1	< 1	< 1	1
Alkalinity	(mg CaCO3/L)	64	54	51	48	48	45	49	42	42	47	46	41	63	65	64	51	59	51	49	56	56	57	47	62	70	58	69	61	60	70
Total P	mg/L		0.02				0.04				0.02	< 0.02	< 0.02	0.02	0.02				0.05				0.02				< 0.02				< 0.02
TDP	mgP/L		< 0.02				< 0.02				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				0.02				< 0.02				< 0.02
Fluoride	mg/L		0.13				0.12				0.17	0.18	0.14	0.19	0.16				< 0.05				0.12				0.08				0.2
Chloride	mg/L		< 0.2				< 0.2				< 0.2	< 0.2	< 0.2	1.19	< 0.2				< 0.2				0.2				0.39				0.54
TDS	mg/L		58	CCME DL			59	CCME DL			57	61	51	75	72				62				83				70				92
Al	mg/L		0.72	0.022			0.017	0.016			0.007	0.01	0.039	0.009	0.014				0.011				0.011				0.017				0.02
Sb	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
As	mg/L		< 0.001	0.0005			< 0.001	0.0004			0.0005	0.0006	0.0005	0.0005	0.0004				0.0005				0.0003				0.0004				0.0005
Ba	mg/L		0.22	0.211			0.18	0.174			0.189	0.178	0.187	0.313	0.273				0.213				0.265				0.296				0.346
Be	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Bi	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
B	mg/L		0.09	0.09			0.07	0.06			0.09	0.06	0.06	0.07	0.08				0.1				0.07				0.07				0.09
Cd	mg/L		< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004
Ca	mg/L		10.4	10.9			9.41	9.24			9.46	8.88	9.04	15.1	13.3				10.4				12.2				12.6				16
Cr	mg/L		0.005	0.0003			< 0.001	0.0003			< 0.0002	< 0.0002	0.0004	< 0.0002	< 0.0002				0.0002				< 0.0002				0.0002				0.0003
Co	mg/L		0.003	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Cu	mg/L		0.002	0.0008			< 0.001	0.0008			0.003	0.0006	0.0008	0.0034	0.0016				0.0019				0.0013				0.0021				0.001
Fe	mg/L		1.01	0.03			0.06	0.02			< 0.01	< 0.01	0.05	< 0.01	< 0.01				0.03				< 0.01				0.02				0.03
Pb	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Li	mg/L		0.001	0.0009			< 0.001	0.0004			0.0005	0.0003	0.0005	0.0006	0.0006				0.0007				0.0007				0.0005				0.0008
Mg	mg/L		8.03	4.19			3.33	4.13			3.02	3.01	3.37	5.46	5.33				4.3				4.21				4.83				6.32
Mn	mg/L		0.018	< 0.0002			< 0.001	0.0003			0.0004	0.0004	0.0005	0.0006	0.0006				0.0005				0.0005				0.0003				0.0009
Hg	ug/L		< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L		0.0005	0.0009			0.0008	0.001			0.001	0.0009	0.0009	0.0011	0.001				0.0008				0.0009				0.0008				0.0009
Ni	mg/L		0.033	0.0018			0.001	0.0017			0.001	0.0014	0.0029	0.0016	0.0021				0.0015				0.0017				0.0019				0.0024
P	mg/L		< 0.15	< 0.03			< 0.15	< 0.03			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03				< 0.03				< 0.03				< 0.03				< 0.03
K	mg/L		5.8	5.78			5.2	5.62			5.28	5.27	5.5	7.01	6.65				5.46				5.27				5.71				6.4
Se	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Si	mg/L		8.6	7.01			6.3	6.28			5.88	6.12	6.44	7.15	7.35				6.77				6.72				7.8				10.2
Ag	mg/L		< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005
Na	mg/L		1.32	1			1.03	1.09			0.84	0.83	0.91	1.15	1.2				1.19				0.9				1.08				1.31
Sr	mg/L		0.11	0.117			0.099	0.097			0.112	0.103	0.098	0.164	0.145				0.109				0.145				0.137				0.184
Te	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Tl	mg/L		< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.00002	0.00002	< 0.00002	< 0.00002	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002
Th	mg/L		< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Sn	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Ti	mg/L		0.015	0.0005			0.001	0.0003			0.0003	0.0004	0.0006	0.0003	0.0004				0.0004				0.0005				0.0003				0.0004
U	mg/L		< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
V	mg/L		0.002	0.0009			0.001	0.0009			0.001	0.0009	0.0011	0.0009	0.0008				0.0009				0.0009				0.0008				0.0007
Zn	mg/L		< 0.005	0.001			< 0.005	< 0.001			< 0.001	< 0.001	< 0.001	0.001	0.001				0.008				< 0.001				< 0.001				< 0.001
Zr	mg/L		< 0.01	< 0.002			< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002

Humidity Cell Sample Data

HC 26 - Processed Kimberlite Fines

S-Total:	0.04	%
S^{2-}:	0.03	%
NP:	75.00	t $CaCO_3$/1000 t
CaNP:	10.00	t $CaCO_3$/1000 t
AP:	0.84	t $CaCO_3$/1000 t

Weeks	#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Date		11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05	29-Nov-05	6-Dec-05	13-Dec-05	20-Dec-05	27-Dec-05	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	14-Feb-06	21-Feb-06
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		500	505	505	490	470	505	450	490	510	430	500	500	470	450	510	470	500	460	510	475
pH	Effluent (units)	8.36	8.31	8.66	8.83	8.82	8.86	8.90	9.00	9.00	8.83	8.73	8.97	8.46	8.36	9.05	8.95	9.00	9.05	8.72	8.97
Cond.	(umhos/cm)	224	333	129	122	199	158	113	131	119	120	77	69	54	69	69	74	88	77	91	69
ORP	mV	130	130	150	105	100	185	125	100	85	120	85	85	135	160	130	120	150	120	155	130
Sulphate	(mg/L)	10	4	3	4	5	3	5	4	7	7	5	5	5	4	5	5	6	6	5	6
Acidity	(mg CaCO3/L)																				
Alkalinity	(mg CaCO3/L)	37	22	19	19	22	22	18	26	28	30	22	23	19	23	23	24	27	28	29	25
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L	0.22				0.24				0.43				0.20				0.40			
Chloride	mg/L	39.5				36.7				12.3				2.0				1.7			
TDS	mg/L	165				71				80				72				85			
Al	mg/L	0.01				< 0.005				0.033				< 0.005				0.015			
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ba	mg/L	0.14				0.092				0.052				0.041				0.047			
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L	0.72				0.73				0.82				0.36				0.55			
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L	19.4				13.5				6.90				4.26				5.15			
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Cu	mg/L	0.002				< 0.001				0.001				< 0.001				< 0.001			
Fe	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L	0.01				< 0.001				< 0.001				< 0.001				< 0.001			
Mg	mg/L	1.84				1.75				1.08				0.70				0.80			
Mn	mg/L	< 0.001				< 0.001				0.001				< 0.001				< 0.001			
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L	0.0009				0.0018				0.0029				0.0014				0.0026			
Ni	mg/L	0.002				0.002				0.003				< 0.001				0.001			
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L	11.4				10.2				8.2				4.6				5.6			
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L	7.2				4.6				5.5				3.8				5.1			
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L	14.1				12.5				8.62				3.33				4.77			
Sr	mg/L	0.18				0.130				0.063				0.036				0.046			
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Zn	mg/L	< 0.005				< 0.005				< 0.005				< 0.005				< 0.005			
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Date		28-Feb-06	7-Mar-06	14-Mar-06	21-Mar-06	28-Mar-06	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	16-May-06	23-May-06	30-May-06	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		485	505	480	490	510	505	490	500	505	490	505	465	500	470	500	495	480	445	505	505
pH	Effluent (units)	8.76	9.06	8.69	7.51	9.24	9.02	8.85	9.04	8.99	9.18	8.96	9.17	9.12	9.16	9.10	9.12	9.18	9.22	9.22	9.28
Cond.	(umhos/cm)	69	67	88	62	77	74	51	46	35	48	50	58	64	45	43	59	63	50	50	54
ORP	mV	85	110	120	140	140	100	85	120	90	80	100	150	100	115	130	120	110	120	100	100
Sulphate	(mg/L)	6	5	7	2	6	6	4	2	2	3	3	4	5	3	2	5	5	4	3	4
Acidity	(mg CaCO3/L)				2																
Alkalinity	(mg CaCO3/L)	26	22	34	18	31	24	22	20	16	21	22	26	24	17	15	22	29	30	25	24
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L	0.45				0.43				0.19				0.52				0.50			
Chloride	mg/L	1.1				2.9				0.5				0.8				0.9			
TDS	mg/L	64				62				34				98				48			
Al	mg/L	0.028				0.074				0.031				< 0.005				< 0.005			
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ba	mg/L	0.042				0.044				0.032				0.046				0.068			
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L	0.54				0.63				0.20				0.27				0.47			
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L	4.56				5.14				3.08				8.81				5.55			
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Cu	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Fe	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Mg	mg/L	0.77				0.91				0.49				2.45				0.71			
Mn	mg/L	< 0.001				< 0.001				< 0.001				0.002				< 0.001			
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L	0.0022				0.0024				0.0008				0.0025				0.002			
Ni	mg/L	0.001				0.003				< 0.001				< 0.001				< 0.001			
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L	5.7				6.6				3.3				5.8				6.4			
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L	5.2				6.1				2.3				5.2				6.1			
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L	4.21				6.28				1.43				1.64				2.91			
Sr	mg/L	0.041				0.045				0.028				0.079				0.046			
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L	0.001				0.001				< 0.001				0.001				0.001			
Zn	mg/L	< 0.005				< 0.005				< 0.005				< 0.005				< 0.005			
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Date		18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	15-Aug-06	22-Aug-06	29-Aug-06	5-Sep-06	12-Sep-06	19-Sep-06	26-Sep-06	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06	14-Nov-06	21-Nov-06	28-Nov-06
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		480	505	475	490	505	500	505	500	505	505	465	505	495	490	505	505	495	485	465	430
pH	Effluent (units)	9.12	9.26	9.34	9.33	9.37	9.07	9.33	8.96	9.36	9.25	8.87	9.19	9.24	9.19	9.33	9.39	9.21	9.23	9.23	9.14
Cond.	(umhos/cm)	51	46	58	56	54	44	64	56	68	59	44	58	55	62	73	51	55	61	67	65
ORP	mV	110	115	75	85	90	60	70	110	90	90	85	90	95	100	90	90	95	90	85	80
Sulphate	(mg/L)	3	3	3	3	4	4	4	4	4	4	3	3	4	3	4	2	4	3	4	3
Acidity	(mg CaCO3/L)																				
Alkalinity	(mg CaCO3/L)	24	25	26	26	24	22	27	24	28	27	20	29	26	25	25	25	25	25	30	27
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L	0.37				0.44				0.42				0.38				0.42			
Chloride	mg/L	0.3				0.7				0.7				0.6				0.5			
TDS	mg/L	24				72				39				82				78			
Al	mg/L	0.033				0.017				0.009				0.025				0.013			
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				0.001			
Ba	mg/L	0.061				0.064				0.069				0.083				0.087			
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L	0.3				0.51				0.37				0.37				0.4			
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L	4.85				4.99				5.35				5.4				5.94			
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Cu	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Fe	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Mg	mg/L	0.81				0.6				0.65				0.85				0.67			
Mn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L	0.0014				0.0016				0.0017				0.0013				0.0017			
Ni	mg/L	0.001				< 0.001				< 0.001				< 0.001				< 0.001			
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L	5.7				6.7				6.4				6.6				7.8			
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L	5.1				6				6.5				6.3				5.4			
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L	2.1				2.32				2.03				2.03				2.25			
Sr	mg/L	0.043				0.043				0.049				0.048				0.053			
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L	0.001				0.001				0.001				0.001				0.001			
Zn	mg/L	< 0.005				< 0.005				< 0.005				< 0.005				< 0.005			
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Date		5-Dec-06	12-Dec-06	19-Dec-06	26-Dec-06	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	13-Feb-07	20-Feb-07	27-Feb-07	6-Mar-07	13-Mar-07	20-Mar-07	27-Mar-07	3-Apr-07	10-Apr-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		495	490	495	495	495	505	480	500	485	450	505	505	505	500	500	490	500	505	490
pH	Effluent (units)	9.23	8.93	8.96	8.99	9.19	9.28	9.26	9.36	9.27	9.23	9.31	9.38	9.13	9.21	9.31	9.4	9.17	9.21	9.33
Cond.	(umhos/cm)	56	30	39	35	43	43	47	43	47	50	49	41	51	48	55	56	51	46	50
ORP	mV	80	110	110	100	95	110	100	100	95	95	95	105	100	105	110	100	100	90	90
Sulphate	(mg/L)	3	2	1	1	2	2	5	4	3	3	1	2	3	3	3	3	2	2	3
Acidity	(mg CaCO3/L)																			
Alkalinity	(mg CaCO3/L)	24	15	16	14	24	21	20	24	23	23	22	19	23	24	25	21	24	23	23
Total P	mg/L																			
TDP	mgP/L																			
Fluoride	mg/L	0.29				0.25				0.34				0.26				0.32		
Chloride	mg/L	< 0.2				0.3				0.22				0.26				0.22		
TDS	mg/L	43				20				36				43				36		
Al	mg/L	0.006				< 0.005				0.007				0.011				< 0.005		
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
As	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Ba	mg/L	0.068				0.071				0.077				0.077				0.088		
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
B	mg/L	0.25				0.19				0.24				0.24				0.23		
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002		
Ca	mg/L	4.59				4.2				4.56				4.69				4.86		
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Co	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Cu	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Fe	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05		
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Li	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Mg	mg/L	0.55				0.53				0.64				0.58				0.58		
Mn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02		
Mo	mg/L	0.0011				0.0007				0.001				0.0011				0.001		
Ni	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15		
K	mg/L	6				5.1				6.3				5.9				5.9		
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Si	mg/L	4.6				3.8				5.6				5.1				5.1		
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025		
Na	mg/L	1.45				1.19				1.56				1.35				1.25		
Sr	mg/L	0.04				0.037				0.041				0.044				0.043		
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001		
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005		
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005		
V	mg/L	0.001				< 0.001				0.001				0.001				0.001		
Zn	mg/L	< 0.005				< 0.005				< 0.005				< 0.005				< 0.005		
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01		

Humidity Cell Sample Data

HC 26 - Processed Kimberlite Fines

Weeks	#	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
Date		17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	14-Aug-07	21-Aug-07	28-Aug-07	4-Sep-07	11-Sep-07	18-Sep-07	25-Sep-07	2-Oct-07	9-Oct-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		505	500	480	500	505	505	495	500	445	505	500	500	490	480	495	495	505	475	505	505	485	505	475	500	492	495
pH	Effluent (units)	9.33	9.31	9.20	9.18	9.33	9.23	9.32	9.16	9.22	9.21	9.22	9.26	9.20	9.13	9.15	9.29	9.25	8.86	9.22	9.36	9.09	9.23	9.22	9.26	9.20	9.10
Cond.	(umhos/cm)	49	54	55	46	54	55	55	52	62	56	60	54	49	65	60	62	58	43	55	59	48	62	54	52	63	60
ORP	mV	90	85	90	90	100	90	90	90	95	90	100	90	95	90	90	90	70	100	85	80	85	75	70	70	75	75
Sulphate	(mg/L)	2	2	1	2	2	3	2	2	3	2	3	3	1	2	2	3	3	2	1	2	3	3	1	2	2	2
Acidity	(mg CaCO3/L)																										
Alkalinity	(mg CaCO3/L)	22	24	22	21	25	25	24	23	26	25	25	24	24	30	26	26	25	18	23	26	21	25	24	23	28	27
Total P	mg/L																										
TDP	mgP/L																										
Fluoride	mg/L		0.24				0.3				0.25				0.43				0.37				0.33				0.38
Chloride	mg/L		0.23				0.3				0.26				0.2				< 0.2				0.22				< 0.2
TDS	mg/L		38				40				38				56				29				42				12
Al	mg/L		< 0.005				0.006				0.032				0.024				0.028				0.092				0.027
Sb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
As	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Ba	mg/L		0.09				0.1				0.094				0.12				0.074				0.11				0.12
Be	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Bi	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
B	mg/L		0.25				0.25				0.21				0.23				0.12				0.23				0.19
Cd	mg/L		< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Ca	mg/L		4.69				5.39				5.85				5.66				3.23				5.37				5.51
Cr	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.001				< 0.001
Co	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Cu	mg/L		< 0.001				< 0.001				0.003				< 0.001				< 0.001				< 0.001				< 0.001
Fe	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				0.17				< 0.05
Pb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Li	mg/L		< 0.001				< 0.005				< 0.005				< 0.005				< 0.005				< 0.001				< 0.001
Mg	mg/L		0.56				0.62				0.84				0.81				0.71				1.22				0.7
Mn	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.003				< 0.001
Hg	ug/L		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L		0.0011				0.0014				0.0011				0.0012				0.0005				0.001				0.0011
Ni	mg/L		< 0.001				< 0.001				0.002				0.001				0.002				0.005				0.001
P	mg/L		< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15
K	mg/L		6.2				6.6				6.2				7.1				4.2				7.1				6.6
Se	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Si	mg/L		4.9				5.6				5.6				6.6				4				6.7				6.3
Ag	mg/L		< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025
Na	mg/L		1.29				1.36				1.52				1.35				0.76				1.23				1.12
Sr	mg/L		0.043				0.051				0.049				0.052				0.026				0.05				0.049
Te	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Tl	mg/L		< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Th	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
Sn	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Ti	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.003				< 0.001
U	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
V	mg/L		0.001				0.001				0.001				0.001				< 0.001				0.002				0.002
Zn	mg/L		< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005
Zr	mg/L		< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01

Weeks	#	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139
Date		16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	11-Dec-07	18-Dec-07	25-Dec-07	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	12-Feb-08	19-Feb-08	26-Feb-08	4-Mar-08	11-Mar-08	18-Mar-08	25-Mar-08	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########	3-Jun-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		500	490	490	500	505	480	505	505	495	480	490	475	503	510	495	495	490	480	495	490	500	495	490	495	495	500	495	500	480	470	510	510	515	500
pH	Effluent (units)	9.18	9.06	9.04	9.19	9.20	9.05	8.51	8.77	9.13	8.98	8.82	8.98	9.01	8.99	8.96	8.86	8.84	8.96	8.89	8.97	8.98	9.02	9.07	9.10	9.12	9.10	9.20	9.15	9.17	9.05	9.12	9.05	9.19	9.14
Cond.	(umhos/cm)	60	63	55	54	57	56	40	35	39	49	54	52	51	54	56	56	47	60	55	52	53	50	49	49	41	40	42	36	39	39	37	38	37	36
ORP	mV	80	85	75	80	70	75	80	95	90	95	80	90	90	70	70	70	75	65	55	70	75	80	120	80	120	90	135	140	125	125	135	135	150	120
Sulphate	(mg/L)	3	3	2	2	2	3	2	1	< 1	2	2	2	3	2	1	3	2	2	2	2	1	2	2	1	1	< 1	1	< 1	1	< 1	< 1	< 1	2	2
Acidity	(mg CaCO3/L)																																		
Alkalinity	(mg CaCO3/L)	26	27	25	23	23	26	21	19	19	22	25	23	23	24	25	25	22	26	25	25	25	23	23	24	20	20	21	20	20	20	19	17	17	18
Total P	mg/L																								< 0.02				0.07				0.02		
TDP	mgP/L																								< 0.02				< 0.02				< 0.02		
Fluoride	mg/L				0.3				0.23				0.27				0.31				0.24				0.23				0.16				0.17		
Chloride	mg/L				< 0.2				0.22				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2		
TDS	mg/L				45				24				33				46				43				61	CCME DL			36	CCME DL			11	CCME DL	
Al	mg/L				0.01				0.019				0.018				0.016				0.053				0.009	0.007			0.015	0.012			< 0.005	0.005	
Sb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
As	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0006			< 0.001	0.0005			< 0.001	0.0004	
Ba	mg/L				0.10				0.08				0.11				0.12				0.12				0.13	0.122			0.097	0.096			0.083	0.085	
Be	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Bi	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
B	mg/L				0.14				0.12				0.15				0.18				0.2				0.12	0.14			0.1	0.11			0.09	0.07	
Cd	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.0002	< 0.00004	
Ca	mg/L				4.76				3.75				4.84				5.25				5.61				5.03	5.01			3.89	3.82			2.93	3.4	
Cr	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	0.0003			< 0.001	0.0003	
Co	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Cu	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0005			< 0.001	0.0006			< 0.001	0.0008	
Fe	mg/L				< 0.05				< 0.05				< 0.05				< 0.05				0.08				< 0.05	< 0.01			< 0.05	0.02			< 0.05	< 0.01	
Pb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Li	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				0.005				< 0.001	0.0004			< 0.001	0.0003			< 0.001	0.0003	
Mg	mg/L				0.6				0.46				0.6				0.71				1.01				0.66	0.68			0.56	0.59			0.43	0.42	
Mn	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	0.0002	
Hg	ug/L				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02	
Mo	mg/L				0.0009				0.0005				0.0009				0.001				0.0009				0.0007	0.0007			0.0005	0.0005			< 0.0005	0.0004	
Ni	mg/L				< 0.001				< 0.001				< 0.001				0.001				0.002				< 0.001	0.0004			< 0.001	0.0008			< 0.001	0.0007	
P	mg/L				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15	< 0.03			< 0.15	< 0.03			< 0.15	< 0.03	
K	mg/L				5.1				4.7				5.6				6.7				6				5.5	5.39			4.4	4.31			3.7	3.79	
Se	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Si	mg/L				5.4				3.7				5.7				6.2				6.6				5.5	5.55			4.5	4.37			3.2	3.23	
Ag	mg/L				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00025	< 0.00005	
Na	mg/L				0.89				0.61				0.99				1.19				1.16				1.01	0.97			0.76	0.75			0.8	0.7	
Sr	mg/L				0.043				0.033				0.045				0.047				0.053				0.047	0.048			0.037	0.037			0.025	0.023	
Te	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Tl	mg/L				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.0001	< 0.00002	
Th	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001	
Sn	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.001	< 0.0002	
Ti	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				0.001				< 0.001	0.0003			< 0.001	0.0004			< 0.001	0.0003	
U	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0005	< 0.0001	
V	mg/L				0.001				< 0.001				0.002				0.002				< 0.001				< 0.001	0.0015			0.001	0.0012			< 0.001	0.0011	
Zn	mg/L				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005	0.001			< 0.005	< 0.001			< 0.005	0.002	
Zr	mg/L				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.002			< 0.01	< 0.002			< 0.01	< 0.002	

Weeks	#	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
Date		10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	12-Aug-08	19-Aug-08	26-Aug-08	2-Sep-08	9-Sep-08	16-Sep-08	23-Sep-08	30-Sep-08	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		500	495	500	505	500	490	500	495	445	425	455	500	500	475	500	485	500	500	495	500	500	500	495	510	500	465
pH	Effluent (units)	9.20	9.20	9.15	9.26	9.21	9.27	8.96	8.96	7.54	7.62	7.64	8.05	7.69	7.70	7.99	7.79	7.66	7.86	8.00	7.59	7.96	7.77	7.72	7.64	7.86	7.52
Cond.	(umhos/cm)	40	43	40	44	41	46	48	45	27	29	26	30	30	24	31	26	21	22	42	38	32	35	40	30	34	34
ORP	mV	130	110	95	120	110	115	120	120	140	160	145	135	140	130	130	130	130	130	130	140	140	130	140	140	155	180
Sulphate	(mg/L)	1	2	< 1	1	1	< 1	2	2	< 1	1	< 1	< 1	< 1	< 1	1	2	< 1	1	1	< 1	1	< 1	< 1	2	1	< 1
Acidity	(mg CaCO3/L)									< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	< 3
Alkalinity	(mg CaCO3/L)	18	18	18	20	19	21	20	20	15	16	15	16	16	15	16	14	15	14	22	21	18	18	18	15	17	15
Total P	mg/L		0.02				< 0.02	< 0.02	< 0.02	0.06	0.1				< 0.02				0.12				< 0.02				< 0.02
TDP	mgP/L		0.02				< 0.02	< 0.02	< 0.02	0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Fluoride	mg/L		0.16				0.2	0.2	0.18	< 0.05	< 0.05				< 0.05				< 0.05				0.06				0.08
Chloride	mg/L		< 0.2				< 0.2	< 0.2	< 0.2	< 0.2	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2
TDS	mg/L		24	CCME DL			33	33	19	< 10	22				29				27				34				31
Al	mg/L		0.025	0.021			0.012	0.011	0.012	0.018	0.027				0.027				0.015				0.037				0.029
Sb	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
As	mg/L		< 0.001	0.0004			0.0005	0.0006	0.0006	< 0.0002	< 0.0002				< 0.0002				< 0.0002				0.0003				0.0003
Ba	mg/L		0.1	0.097			0.108	0.108	0.119	0.083	0.089				0.082				0.073				0.096				0.091
Be	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Bi	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
B	mg/L		0.09	0.08			0.12	0.08	0.1	0.02	0.02				0.05				0.04				0.06				0.06
Cd	mg/L		< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004
Ca	mg/L		4.25	3.72			4.11	4.04	4.44	3.16	3.01				2.83				2.46				3.3				3.14
Cr	mg/L		< 0.001	0.0003			0.0002	< 0.0002	< 0.0002	0.0002	0.0003				0.0004				0.0003				0.0004				0.0003
Co	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Cu	mg/L		< 0.001	0.0008			0.0005	0.0004	0.0008	0.0025	0.0017				0.0016				0.0038				0.0023				0.0005
Fe	mg/L		< 0.05	0.03			0.01	< 0.01	< 0.01	0.02	0.03				0.04				0.02				0.05				0.04
Pb	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Li	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	0.0002	< 0.0002	0.0002				0.0004				0.0003				0.0002				0.0004
Mg	mg/L		0.6	0.58			0.47	0.49	0.55	0.63	0.77				0.86				0.54				0.86				0.82
Mn	mg/L		< 0.001	0.0004			0.0003	0.0003	< 0.0002	0.0007	0.0009				0.0007				0.0006				0.0006				0.0006
Hg	ug/L		< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L		0.0005	0.0006			0.0006	0.0005	0.0006	< 0.0001	< 0.0001				< 0.0001				< 0.0001				0.0002				0.0003
Ni	mg/L		< 0.001	0.0009			0.0008	0.0006	0.0006	0.0011	0.0019				0.0017				0.0009				0.002				0.0016
P	mg/L		< 0.15	< 0.03			< 0.03	< 0.03	< 0.03	< 0.03	0.04				< 0.03				< 0.03				< 0.03				< 0.03
K	mg/L		4.4	4.47			4.46	4.49	4.92	2.07	3.05				2.84				2.43				3.38				3.19
Se	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Si	mg/L		4.2	4.2			4.12	4.58	4.97	1.25	1.81				3.02				2.71				4.71				4.66
Ag	mg/L		< 0.00025	0.00009			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005
Na	mg/L		0.85	0.95			0.75	0.76	0.88	0.35	0.62				0.85				0.58				0.94				0.95
Sr	mg/L		0.038	0.037			0.04	0.039	0.04	0.026	0.028				0.026				0.025				0.031				0.03
Te	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Tl	mg/L		< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002
Th	mg/L		< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Sn	mg/L		< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Ti	mg/L		< 0.001	0.0004			0.0004	0.0003	0.0003	0.0003	0.0003				0.0006				0.0005				0.0004				0.0008
U	mg/L		< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
V	mg/L		0.002	0.0013			0.0013	0.0012	0.0014	< 0.0002	< 0.0002				0.0003				0.0003				0.0005				0.0004
Zn	mg/L		< 0.005	< 0.001			< 0.001	< 0.001	< 0.001	0.001	0.008				0.005				0.001				< 0.001				< 0.001
Zr	mg/L		< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002

Humidity Cell Sample Data

HC 27 - Processed Kimberlite Fines	D-Total:	0.06	%	
	S"-:	0.05	%	
	NP:	100.50	t CaCO3/1000 t	
	CaNP:	12.045454545	t CaCO3/1000 t	
	AP:	1.5	t CaCO3/1000 t	

Weeks	#	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	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Date		11-Oct-05	18-Oct-05	25-Oct-05	1-Nov-05	8-Nov-05	15-Nov-05	22-Nov-05	29-Nov-05	6-Dec-05	13-Dec-05	20-Dec-05	27-Dec-05	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	14-Feb-06	21-Feb-06	28-Feb-06	7-Mar-06	14-Mar-06	21-Mar-06	28-Mar-06	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	16-May-06	23-May-06	30-May-06	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	15-Aug-06	22-Aug-06	29-Aug-06	5-Sep-06	12-Sep-06	19-Sep-06	26-Sep-06	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06	14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	12-Dec-06	19-Dec-06	26-Dec-06	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	13-Feb-07	20-Feb-07	27-Feb-07	6-Mar-07	13-Mar-07	20-Mar-07	27-Mar-07	3-Apr-07	10-Apr-07
Leachate Volume Added (mL)		750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		495	490	505	500	510	470	500	445	515	480	505	455	460	450	485	485	500	470	495	500	510	490	485	490	510	495	505	500	485	500	490	505	475	490	505	505	490	430	505	470	485	505	475	485	505	495	505	505	475	505	500	490	460	485	505	475	505	500	490	470	500	490	460	485	505	475	485	475	500	490	470	500	490	460	485
pH	Effluent (units)	8.37	8.85	8.79	8.85	9.01	9.15	9.01	9.19	9.28	8.99	8.76	9.00	8.61	8.79	9.15	8.99	9.04	9.03	8.86	9.07	9.01	8.92	8.82	8.08	8.78	9.17	8.14	9.15	9.26	9.25	9.16	9.22	9.08	9.26	9.20	9.18	9.25	9.27	9.40	9.38	9.33	9.37	9.34	9.40	9.42	9.19	9.27	9.19	9.45	9.31	9.30	9.41	9.40	9.16	9.39	9.42	9.31	9.19	9.38	9.25	9.32	9.16	9.39	9.27	9.26	9.23	9.35	9.37	9.22	9.32	9.38	9.28	9.30	9.26	9.33	9.43	9.26	9.28	9.39
Cond.	(umhos/cm)	177	223	124	199	224	146	157	146	127	131	84	92	75	93	94	88	103	71	64	99	86	90	90	65	77	84	75	70	79	79	75	71	72	68	86	80	74	62	70	70	70	89	77	75	74	69	77	75	74	77	76	80	76	87	70	82	65	73	65	76	76	73	71	76	81	67	65	60	62	62	67	71	66	67	63	63	69
ORP	mV	125	120	95	100	90	170	90	90	75	110	80	90	130	150	120	110	75	85	150	150	90	120	110	140	130	100	125	120	100	80	105	150	105	100	120	110	110	110	90	80	90	90	100	75	90	55	150	150	100	90	100	130	100	90	110	90	100	100	120	95	95	95	95	325	95	95	90	85	50	90
Sulphate	(mg/L)	9	5	3	9	17	14	4	14	11	13	5	5	5	6	5	4	4	5	5	5	5	4	< 1	4	4	4	4	5	4	3	4	5	5	4	4	4	4	3	4	4	3	4	4	3	5	4	4	5	4	4	5	4	4	5	4	3	3	4	4	2	2	3	3	2	3	3	4	4	2	2	3	3	2	3	3
Acidity	(mg CaCO3/L)																								1																																																																		
Alkalinity	(mg CaCO3/L)	42	34	28	36	46	39	22	46	43	45	36	39	39	37	39	38	40	33	38	39	37	37	35	24	32	35	36	35	38	37	36	36	30	29	35	35	37	33	35	24	35	35	34	35	34	35	38	34	36	35	36	35	36	28	34	30	30	34	34	35	34	34	34	32	33	32	32	30	30	32	32	33	32	33	32	31	31	33
Total P	mg/L																																																																																										
TOP	mg/mL																																																																																										
Fluoride	mg/L	0.13				0.43			0.43			0.30			0.30			0.30			0.33			0.24			0.30			0.32			0.29			0.32			0.37			0.34			0.34			0.25			0.20			0.23			0.33			0.18			0.14			0.22			0.33			0.22			0.27			0.27		
Chloride	mg/L	23.3				0.4			2.9			1.0			1.0			0.7			0.9			1.8			0.7			0.6			0.7			0.3			0.7			0.5			0.5			0.6			0.3			0.2			< 0.2			0.2			< 0.2			< 0.2			< 0.2			< 0.2			< 0.2			< 0.2			< 0.2			< 0.2		
TDS	mg/L	107				141			70			50			65			74			81			64			64			46			48			58			54			100			89			66			15			47			49			70			49			49			49			49			49		
Al	mg/L	< 0.004				< 0.005			0.026			0.005			0.044			0.035			< 0.005			< 0.005			< 0.005			< 0.005			< 0.005			< 0.005			< 0.005			0.008			0.007			0.008			< 0.005			0.013			< 0.005			< 0.005			< 0.005			< 0.005			< 0.005			< 0.005			< 0.005		
Sb	mg/L	< 0.001				< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001		
As	mg/L	< 0.001				< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001		
Ba	mg/L	0.12				0.063			0.045			0.063			0.073			0.074			0.061			0.074			0.100			0.061			0.110			0.11			0.11			0.12			0.10			0.13			0.14			0.15			0.16			0.15			0.15			0.15			0.15			0.15			0.15		
Be	mg/L	< 0.001				< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001		
Bi	mg/L	< 0.001				< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001		
B	mg/L	0.89				2.83			2.17			1.08			1.07			1.03			0.73			0.77			0.69			0.68			0.73			1.13			0.77			0.76			0.53			0.52			0.44			0.39			0.4			0.4			0.4			0.4			0.4		
Cd	mg/L	< 0.0002				< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002			< 0.0002		
Ca	mg/L	12.5				8.00			4.94			5.81			5.91			5.41			5.27			6.43			5.78			6.37			5.6			6.24			6.02			6.34			6.77			8.21			5.59			5.76			5.76			5.76			5.76			5.76		
Co	mg/L	< 0.001				< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001		
Cu	mg/L	< 0.001				< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001		
Fe	mg/L	< 0.05				< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05		
Pb	mg/L	< 0.001				< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001		
Li	mg/L	0.002				< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001		
Mg	mg/L	1.19				1.24			0.89			0.99			1.03			1.04			0.92			1.05			0.94			1.05			0.95			0.7			0.74			0.73			0.8			0.74			0.75			0.82			0.74			0.75			0.89			0.83			0.75		
Mn	mg/L	< 0.001				< 0.001			0.001			< 0.001			0.001			0.001			0.002			< 0.001			0.002			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001		
Mo	mg/L	0.037				0.012			0.0114			0.0064			0.0067			0.0064			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066		
Na	mg/L	< 0.005				0.012			0.0114			0.007			0.0064			0.0064			0.0067			0.0064			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066			0.0066		
Ni	mg/L	< 0.002				0.002			0.0013			0.003			0.0014			0.0014			0.002			0.0014			0.0014			0.0014			0.0014			0.0014			0.0014			0.0014			0.0014			0.0014			0.0014			0.0014			0.0014			0.0014			0.0014			0.0014			0.0014			0.0014			0.0014			0.0014		
P	mg/L	< 0.15				< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15			< 0.15		
K	mg/L	9.2				13			8.9			7.4			7.4			6.8			5.9			7.0			6.3			7.0			6.8			7.5			8.9			7.9			8.7			7.7			7.7			7.3			7.2			6.9			7.2			6.9			7.2		
Se	mg/L	< 0.001				< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001		
Si	mg/L	6.6				10.2			8.4			8.1			9.2			8.6			7.0			8.6			7.1			8.7			9.2			10.4			10.8			11.3			7.2			8.5			8.2			8.7			9.1			8.8		
Ag	mg/L	< 0.00025				< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025			< 0.00025		
Na	mg/L	14.9				25.1			13.8			7.03			6.33			4.52			7.17			7.03			4.64			3.98			3.93			4.08			4.38			3.83			3.92			2.74			2.9			2.73			2.54			2.65			2.57		
Sr	mg/L	0.130				0.120			0.073			0.087			0.082			0.077			0.100			0.080			0.085			0.096			0.099			0.089			0.096			0.089			0.094			0.085			0.092			0.085			0.092			0.085			0.092			0.085			0.092			0.085			0.092			0.085		
Te	mg/L	< 0.001				< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001		
Ti	mg/L	< 0.0001				< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001			< 0.0001		
Th	mg/L	< 0.0005				< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005		
Sn	mg/L	< 0.001				< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001		
Ti	mg/L	< 0.001				< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001			< 0.001		
U	mg/L	< 0.0005				< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005			< 0.0005		
V	mg/L	< 0.003				0.003			0.004			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003			0.003		
Y	mg/L	< 0.001				0.001			0.004			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001			0.001		
Zn	mg/L	< 0.05				< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05			< 0.05		
Zr	mg/L	< 0.01				< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01			< 0.01		

Humidity Cell Sample Data

HC 27 - Processed Kimberlite Fines

Weeks	#	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
Date		17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	14-Aug-07	21-Aug-07	28-Aug-07	4-Sep-07	11-Sep-07	18-Sep-07	25-Sep-07	2-Oct-07	9-Oct-07
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		505	500	500	505	495	505	480	500	505	470	500	495	480	495	470	460	505	505	500	505	505	500	465	495	490	500
pH	Effluent (units)	9.32	9.15	9.28	9.25	9.33	9.28	9.18	9.33	9.35	9.29	9.31	9.35	9.33	9.31	9.24	9.31	9.31	9.28	9.25	9.36	9.31	9.30	9.20	9.31	9.28	9.29
Cond.	(umhos/cm)	66	69	66	67	63	63	68	64	66	65	63	66	53	65	62	70	62	61	67	65	64	64	53	58	62	62
ORP	mV	95	95	100	110	115	110	90	100	95	95	100	100	90	95	90	90	75	80	80	75	70	70	80	70	80	70
Sulphate	(mg/L)	2	3	1	2	2	2	4	4	1	2	3	2	1	< 1	2	2	2	2	1	4	3	3	3	2	2	2
Acidity	(mg CaCO3/L)																										
Alkalinity	(mg CaCO3/L)	31	32	29	32	30	31	32	30	30	31	30	30	27	31	28	31	28	30	31	31	29	31	25	29	29	30
Total P	mg/L																										
TDP	mgP/L																										
Fluoride	mg/L		< 0.05				0.11				0.15				0.27				0.28				0.19				0.22
Chloride	mg/L		< 0.2				0.25				0.24				< 0.2				< 0.2				< 0.2				< 0.2
TDS	mg/L		40				43				52				61				42				59				47
Al	mg/L		< 0.005				< 0.005				0.018				0.01				0.018				0.027				0.01
Sb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
As	mg/L		0.001				0.002				0.001				0.001				< 0.001				0.002				0.001
Ba	mg/L		0.18				0.16				0.17				0.16				0.17				0.15				0.19
Be	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Bi	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
B	mg/L		0.4				0.39				0.3				0.3				0.28				0.31				0.27
Cd	mg/L		< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				0.0005				< 0.0002
Ca	mg/L		5.78				5.55				5.44				5				5.01				4.91				5.34
Cr	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Co	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Cu	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.003				< 0.001
Fe	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				0.06				< 0.05
Pb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Li	mg/L		< 0.001				< 0.005				< 0.005				< 0.005				< 0.005				< 0.001				< 0.001
Mg	mg/L		0.77				0.68				0.67				0.68				0.71				0.85				0.69
Mn	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.002				< 0.001
Hg	ug/L		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				0.0006				< 0.0005
Ni	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.002				< 0.001
P	mg/L		< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15
K	mg/L		7.3				7.2				6.6				6.5				6.1				6.5				6.5
Se	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Si	mg/L		8.8				7.8				7.5				7.5				8				8.2				8.5
Ag	mg/L		< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				0.0005				< 0.00025
Na	mg/L		2.67				2.51				2.19				2.26				2.12				2.46				2.22
Sr	mg/L		0.089				0.088				0.078				0.079				0.074				0.079				0.08
Te	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Tl	mg/L		< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				0.0004				< 0.0001
Th	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
Sn	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
Ti	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001
U	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005
V	mg/L		0.003				0.003				0.003				0.003				0.003				0.004				0.003
Zn	mg/L		< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005
Zr	mg/L		< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01

Weeks	#	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
Date		16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	11-Dec-07	18-Dec-07	25-Dec-07	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	12-Feb-08	19-Feb-08	26-Feb-08	4-Mar-08	11-Mar-08	18-Mar-08	25-Mar-08	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		500	490	490	490	500	480	500	505	495	490	470	490	490	505	465	490	505	510	475	495	485	485	490	495	485	500	505	465	495	500
pH	Effluent (units)	9.29	9.23	9.23	9.07	9.18	8.90	8.99	9.03	9.17	9.13	9.02	8.90	9.08	9.24	9.18	9.13	9.12	9.21	9.20	9.25	9.21	9.18	9.14	9.17	9.02	8.88	9.01	9.05	9.18	9.12
Cond.	(umhos/cm)	66	77	70	72	74	62	74	54	60	61	61	66	65	65	67	65	66	68	67	66	66	63	65	67	52	61	53	49	51	51
ORP	mV	80	80	85	80	70	70	70	65	70	70	70	70	70	60	60	60	60	60	45	45	50	60	70	50	100	100	135	135	110	120
Sulphate	(mg/L)	2	3	2	2	2	2	2	1	3	2	3	1	3	2	2	1	3	2	2	3	1	2	3	3	2	1	< 1	1	1	< 1
Acidity	(mg CaCO3/L)																														
Alkalinity	(mg CaCO3/L)	31	33	32	32	35	29	24	27	30	28	29	29	29	30	31	30	30	31	31	31	31	32	30	32	27	32	27	21	27	27
Total P	mg/L																								0.03				0.07		
TDP	mgP/L																								< 0.02				< 0.02		
Fluoride	mg/L				0.26				0.21				0.21				0.2				0.21				0.19				0.08		
Chloride	mg/L				< 0.2				0.23				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2		
TDS	mg/L				75				59				108				64				77				69	CCME DL			40	CCME DL	
Al	mg/L				0.008				0.02				0.016				< 0.005				0.11				< 0.005	0.004			0.012	0.003	
Sb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
As	mg/L				0.001				0.001				0.001				0.001				0.001				0.001	0.0013			< 0.001	0.0008	
Ba	mg/L				0.19				0.16				0.17				0.18				0.19				0.22	0.205			0.18	0.157	
Be	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Bi	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
B	mg/L				0.33				0.28				0.27				0.26				0.37				0.25	0.22			0.17	0.16	
Cd	mg/L				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002	< 0.00004			< 0.0002	< 0.00004	
Ca	mg/L				6.06				5.21				5.44				5.57				5.86				5.84	5.83			5.14	4.97	
Cr	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Co	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Cu	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	0.0008			< 0.001	0.0004	
Fe	mg/L				< 0.05				< 0.05				< 0.05				< 0.05				0.2				< 0.05	< 0.01			< 0.05	< 0.01	
Pb	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Li	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				0.005				< 0.001	0.0002			< 0.001	< 0.0002	
Mg	mg/L				0.79				0.64				0.66				0.71				1.55				0.74	0.76			0.83	0.8	
Mn	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				0.003				< 0.001	< 0.0002			< 0.001	< 0.0002	
Hg	ug/L				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	< 0.02			< 0.02	< 0.02	
Mo	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001	
Ni	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				0.006				< 0.001	0.0002			< 0.001	0.0003	
P	mg/L				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15	< 0.03			< 0.15	< 0.03	
K	mg/L				7.4				6.8				6.2				7.1				8				7.6	7.48			5.6	4.66	
Se	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Si	mg/L				10.6				8.3				8.6				9.3				10.7				10.3	10.7			7.2	6.6	
Ag	mg/L				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025	< 0.00005			< 0.00025	< 0.00005	
Na	mg/L				2.66				1.89				2.21				2.58				2.94				2.78	2.59			1.96	1.71	
Sr	mg/L				0.09				0.073				0.082				0.083				0.089				0.097	0.095			0.077	0.068	
Te	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Tl	mg/L				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001	< 0.00002			< 0.0001	< 0.00002	
Th	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001	
Sn	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001	< 0.0002			< 0.001	< 0.0002	
Ti	mg/L				< 0.001				< 0.001				< 0.001				< 0.001				0.005				< 0.001	0.0004			< 0.001	0.0003	
U	mg/L				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005	< 0.0001			< 0.0005	< 0.0001	
V	mg/L				0.004				0.003				0.004				0.004				0.002				0.003	0.0032			0.003	0.0023	
Zn	mg/L				< 0.005				< 0.005				0.012				< 0.005				< 0.005				< 0.005	0.001			< 0.005	< 0.001	
Zr	mg/L				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01	< 0.002			< 0.01	< 0.002	

Weeks	#	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
Date		########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	12-Aug-08	19-Aug-08	26-Aug-08	2-Sep-08	9-Sep-08	16-Sep-08	23-Sep-08	30-Sep-08	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
Leachate Volume Recovered (mL)		505	500	500	500	495	495	500	500	495	480	495	490	465	480	500	495	500	490	500	475	500	500	495	500	500	495	495	470	500	470
pH	Effluent (units)	8.12	9.01	9.23	9.16	9.25	9.19	9.18	9.13	9.23	9.22	9.00	8.99	7.95	7.88	8.95	9.04	8.85	8.86	9.07	9.04	9.01	9.06	9.10	8.55	8.97	8.73	8.64	7.95	8.44	7.74
Cond.	(umhos/cm)	49	57	58	58	61	62	55	57	58	58	54	58	50	52	55	48	47	40	53	47	51	45	62	68	58	50	61	53	50	51
ORP	mV	125	135	110	120	80	60	80	110	110	135	140	120	150	150	130	150	120	130	110	120	120	125	125	135	130	145	155	130	155	180
Sulphate	(mg/L)	< 1	3	4	2	1	< 1	1	1	2	< 1	2	< 1	< 1	1	1	1	< 1	2	3	3	1	1	3	< 1	1	2	< 1	1	< 1	< 1
Acidity	(mg CaCO3/L)													< 1	< 1																1
Alkalinity	(mg CaCO3/L)	25	25	27	28	28	27	26	27	28	27	26	26	26	26	27	24	24	25	26	24	28	26	28	35	28	24	28	27	24	25
Total P	mg/L		0.12				0.05				0.02	< 0.02	< 0.02	0.02	0.06				< 0.02				0.02				< 0.02				0.02
TDP	mgP/L		< 0.02				0.02				< 0.02	< 0.02	< 0.02	0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Fluoride	mg/L		0.14				0.14				0.12	0.1	0.14	< 0.05	0.17				< 0.05				0.1				0.07				0.1
Chloride	mg/L		< 0.2				< 0.2				< 0.2	< 0.2	< 0.2	< 0.2	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2
TDS	mg/L		30	CCME DL			45	CCME DL			46	39	34	41	40				43				50				31				42
Al	mg/L		< 0.005	0.002			0.026	0.022			0.014	0.022	0.013	0.008	0.021				0.014				0.015				0.02				0.033
Sb	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
As	mg/L		< 0.001	0.0007			< 0.001	0.0008			0.0009	0.0008	0.0009	0.0005	0.0005				0.0009				0.0005				0.0007				0.0006
Ba	mg/L		0.17	0.161			0.21	0.201			0.191	0.188	0.205	0.227	0.204				0.177				0.192				0.186				0.209
Be	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Bi	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
B	mg/L		0.17	0.14			0.15	0.13			0.18	0.09	0.15	0.09	0.11				0.19				0.13				0.11				0.11
Cd	mg/L		< 0.0002	< 0.00004			< 0.0002	< 0.00004			< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004				< 0.00004				< 0.00004				< 0.00004				< 0.00004
Ca	mg/L		4.03	4.41			5.31	4.93			4.76	4.55	4.92	5.17	4.88				4.41				4.53				4.43				4.77
Cr	mg/L		< 0.001	0.0004			< 0.001	0.0004			0.0003	0.0003	0.0002	0.0002	0.0002				0.0003				0.0003				0.0003				0.0005
Co	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Cu	mg/L		< 0.001	0.0005			< 0.001	0.0009			0.0005	0.0004	0.0008	0.0038	0.0004				0.001				0.0015				0.0048				0.0005
Fe	mg/L		< 0.05	0.02			< 0.05	0.04			0.02	0.03	0.02	0.01	0.02				0.03				0.02				0.03				0.06
Pb	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Li	mg/L		< 0.001	0.0003			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				0.0003				0.0003				< 0.0002				0.0003
Mg	mg/L		0.72	0.73			0.92	0.94			0.7	0.78	0.74	0.96	1.09				0.89				0.75				0.91				1.22
Mn	mg/L		< 0.001	0.0004			< 0.001	0.0006			0.0005	0.0008	0.0004	0.0004	0.0006				0.0037				0.0005				0.0006				0.0011
Hg	ug/L		< 0.02	< 0.02			< 0.02	< 0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02
Mo	mg/L		< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Ni	mg/L		< 0.001	0.0015			< 0.001	0.0014			0.0012	0.0015	0.0008	0.0007	0.0013				0.0013				0.0011				0.0012				0.0019
P	mg/L		< 0.15	0.12			< 0.15	< 0.03			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03				< 0.03				< 0.03				< 0.03				< 0.03
K	mg/L		4.9	5.05			5.2	5.17			5.25	4.75	5.72	4.77	5.06				4.86				4.68				4.35				3.87
Se	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Si	mg/L		6.9	6.79			7.6	7.51			6.75	6.39	7.67	4.9	6.6				7.18				6.69				7.39				7.25
Ag	mg/L		< 0.00025	< 0.00005			< 0.00025	< 0.00005			< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005				< 0.00005				< 0.00005				< 0.00005				< 0.00005
Na	mg/L		2.17	1.98			2.02	2.01			1.78	1.59	2.03	1.65	2.02				2.54				1.87				2.06				2.12
Sr	mg/L		0.06	0.069			0.083	0.08			0.083	0.075	0.078	0.08	0.076				0.067				0.078				0.07				0.076
Te	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Tl	mg/L		< 0.0001	< 0.00002			< 0.0001	< 0.00002			< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002				< 0.00002				< 0.00002				< 0.00002				< 0.00002
Th	mg/L		< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
Sn	mg/L		< 0.001	< 0.0002			< 0.001	< 0.0002			< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002
Ti	mg/L		< 0.001	0.0005			0.001	0.0006			0.0007	0.001	0.0005	0.0003	0.0007				0.0006				0.0008				0.0005				0.0013
U	mg/L		< 0.0005	< 0.0001			< 0.0005	< 0.0001			< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001
V	mg/L		0.002	0.0024			0.003	0.0028			0.0028	0.0021	0.003	0.0008	0.0013				0.0023				0.0024				0.0019				0.0012
Zn	mg/L		< 0.005	< 0.001			< 0.005	< 0.001			< 0.001	< 0.001	< 0.001	< 0.001	< 0.001				0.006				< 0.001				< 0.001				< 0.001
Zr	mg/L		< 0.01	< 0.002			< 0.01	< 0.002			< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				< 0.002				< 0.002				< 0.002				< 0.002

Humidity Cell Sample Data

HC 28 - Pre-Leached Granite
04-ARD-142-007
04-ARD-142-008

S-Total:	0.02	%
S^{2-}:	0.02	%
NP:	0.00	CaCO3/1000 t
CaNP:	0.23	CaCO3/1000 t
AP:	0.63	CaCO3/1000 t

Weeks	#	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	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Date		15-Nov-05	22-Nov-05	29-Nov-05	6-Dec-05	13-Dec-05	20-Dec-05	27-Dec-05	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	14-Feb-06	21-Feb-06	28-Feb-06	7-Mar-06	14-Mar-06	21-Mar-06	28-Mar-06	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	16-May-06	23-May-06	30-May-06	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	15-Aug-06	22-Aug-06	29-Aug-06	5-Sep-06	12-Sep-06	19-Sep-06	26-Sep-06	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06	14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	12-Dec-06	19-Dec-06	26-Dec-06	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	13-Feb-07	20-Feb-07	27-Feb-07	6-Mar-07	13-Mar-07	20-Mar-07	27-Mar-07	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07	#########
Leachate Volume Added (mL)		675	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)		525	435	450	445	440	450	450	445	440	445	440	445	440	450	450	440	450	440	455	435	450	445	430	460	445	450	440	450	460	430	450	455	450	455	460	440	450	455	455	435	440	450	450	455	450	455	440	425	450	420	425	440	410	425	410	415	410	425	420	430	430	445	440	410	420	410	415	410	420	430	440	445	405
pH	Effluent (units)	2.87	3.12	3.53	3.91	4.16	4.19	4.13	4.19	4.54	4.79	4.40	4.91	5.28	6.03	5.11	5.90	5.36	4.84	4.69	5.73	5.97	5.20	5.79	6.35	5.12	5.23	5.24	5.25	5.14	5.37	5.40	5.25	5.25	5.47	5.37	5.40	5.24	5.33	5.93	5.18	5.08	5.30	5.01	5.20	5.30	5.30	5.29	5.32	5.66	5.33	5.29	5.34	5.36	5.33	5.26	5.25	5.24	5.31	5.23	5.29	5.25	5.55	5.34	5.26	5.32	5.40	5.38	5.65	5.43	5.35	5.46	5.44	5.39	5.44	5.41	5.30	5.37	5.47	5.39
Cond.	(umhos/cm)	4700	1751	454	118	13	16	16	10	13	13	11	12	9	11	10	8	8	9	10	9	7	6	6	6	6	5	4	5	5	6	5	5	4	5	4	4	5	4	4	4	4	4	4	4	5	4	4	4	4	5	4	4	4	4	4	3	3	5	3	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
ORP	mV	510	490	380	400	345	190	260	290	285	240	160	155	210	255	220	170	140	200	130	100	95	125	100	100	75	130	150	95	130	120	120	120	130	120	125	150	145	145	160	120	125	160	100	190	165	145	145	145	100	130	120	120	115	115	125	135	105	110	115	105	100	100	100	110	110	110	100	100	100	100	95	115	105	100	100	105	105
Sulphate	(mg/L)	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Acidity	(mg CaCO3/L)	713	269	68	18	5	6	8	9	9	6	5	5	5	3	5	4	6	5	6	2	2	3	3	3	3	3	2	3	2	3	3	3	3	3	3	3	2	2	2	2	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2
Alkalinity	(mg CaCO3/L)																																																																																															
Total P	mg/L																																																																																														
TOP	mg/L																																																																																																							
Fluoride	mg/L	25			0.7				0.6				0.7				0.6				0.53				0.48				0.44				0.36				0.37				0.32				0.29				0.23				0.28				0.2				0.14				0.25				0.17				0.18				0.17																				
Chloride	mg/L	1430			6.0				1.0				0.7				0.8				0.6				0.6				0.5				0.5				0.2				0.2				0.8				0.5				0.4				1.4				0.21				0.2				0.2				0.23				0.2																				
TDS	mg/L	2376			18				44				43				14				<25*				27				71				28				18				10				23				26				14				56				17				69				< 10				25				26																				
Si	mg/L	73.60			0.40				0.14				0.11				0.09				0.09				0.08				0.07				0.05				0.03				0.009				0.009				0.006				0.004				0.006				0.004				0.008				< 0.005																				
Sb	mg/L	< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
As	mg/L	< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
Ba	mg/L	0.49			0.004				0.002				0.004				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
Be	mg/L	< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
Bi	mg/L	< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
B	mg/L	< 0.05			< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05																				
Cd	mg/L	0.0003			< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002																				
Ca	mg/L	365			1.18				0.35				0.53				0.38				0.32				0.20				0.19				0.26				0.22				0.25				0.21				0.17				0.25				0.19				0.14				0.15				0.1				0.12																				
Cr	mg/L	0.051			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
Co	mg/L	0.035			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
Cu	mg/L	0.043			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
Fe	mg/L	87.8			0.28				< 0.05				0.11				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05																				
Pb	mg/L	0.038			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
U	mg/L	0.46			0.002				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
Mg	mg/L	87			0.22				0.10				0.27				0.13				0.10				0.07				0.08				0.07				0.08				0.07				0.08				0.11				0.05				0.08				0.11				0.06				0.05				0.05				0.05																				
Mn	mg/L	2.54			0.011				0.003				0.004				0.004				0.004				0.003				0.002				0.003				0.002				0.003				0.002				0.002				0.002				0.002				0.002				0.002				0.002				0.0016				0.002				0.001																				
Mo	mg/L	0.0135			< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001																				
Ni	mg/L	0.0085			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
P	mg/L	1.4			< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15																				
K	mg/L	49.5			0.6				0.2				0.2				0.1				0.2				0.3				0.3				0.1				0.1				< 0.1				< 0.1				< 0.1				< 0.1				< 0.1				< 0.1				< 0.1				< 0.1				< 0.1				< 0.1																				
Se	mg/L	< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
Si	mg/L	0.9			0.4				7.0				7.6				7.5				6.3				6.0				4.6				5.3				5.9				4.8				5.7				4.6				4.4				4.3				3.99				4.1				3.9				3.7																				
Ag	mg/L	0.0004			< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025																				
Na	mg/L	1.58			< 0.05				0.38				0.11				0.29				0.09				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				0.09				0.06				0.07				0.05				< 0.05				< 0.05				< 0.05																				
Sr	mg/L	0.11			0.003				0.001				0.004				0.002				0.001				0.001				0.001				0.001				0.001				0.001				0.001				0.004				0.001				0.000				0.000				0.001				0.001				0.001																				
Te	mg/L	< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
Ti	mg/L	0.0009			< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001																				
Th	mg/L	0.010			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005																				
Sn	mg/L	< 0.001			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
U	mg/L	0.84			0.009				0.003				0.002				0.001				0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.001				< 0.001				< 0.001				< 0.001				0.0005				< 0.001				< 0.001																				
V	mg/L	0.0028			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005																				
W	mg/L	0.04			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001																				
Zn	mg/L	0.07			< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005																				
Zr	mg/L	< 0.01			< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01																				

Humidity Cell Sample Data

HC 28 - Pre-Leached Granite
04-ARD-142-007
04-ARD-142-008

Weeks	#	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
Date		########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	14-Aug-07	21-Aug-07	28-Aug-07	4-Sep-07	11-Sep-07	18-Sep-07	25-Sep-07	2-Oct-07
Leachate Volume Added (mL)		450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)		435	410	410	400	390	410	425	440	430	420	410	435	425	430	425	420	435	430	450	435
pH	Effluent (units)	5.29	5.61	5.39	5.38	5.45	5.46	5.41	5.67	5.37	5.38	5.43	5.40	5.37	5.50	5.36	5.49	5.41	5.46	5.41	5.49
Cond.	(umhos/cm)	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
ORP	mV	105	105	100	100	100	105	100	100	100	100	190	190	165	155	150	170	155	130	135	120
Sulphate	(mg/L)	1	3	1	< 1	< 1	2	< 1	1	< 1	1	1	< 1	< 1	< 1	1	1	< 1	< 1	1	1
Acidity	(mg CaCO3/L)	2	1	2	2	2	1	2	1	1	1	2	1	2	< 1	2	2	2	1	1	2
Alkalinity	(mg CaCO3/L)	2	2	2	2	2	2	1	1	3	1	2	2	1	1	1	2	2	2	2	2
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L		0.13				0.13				0.12				0.12				0.14		
Chloride	mg/L		0.22				< 0.2				< 0.2				< 0.2				< 0.2		
TDS	mg/L		11				17				< 10				< 10				16		
Al	mg/L		0.003				0.001				0.015				< 0.005				< 0.005		
Sb	mg/L		< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001		
As	mg/L		< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001		
Ba	mg/L		0.0008				0.0002				< 0.001				< 0.001				< 0.001		
Be	mg/L		< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001		
Bi	mg/L		< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001		
B	mg/L		< 0.01				< 0.01				< 0.05				< 0.05				< 0.05		
Cd	mg/L		< 0.00004				< 0.00004				< 0.0002				< 0.0002				< 0.0002		
Ca	mg/L		0.11				0.12				0.15				0.1				0.09		
Cr	mg/L		< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001		
Co	mg/L		< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001		
Cu	mg/L		0.0019				0.0048				0.003				< 0.001				< 0.001		
Fe	mg/L		< 0.01				< 0.01				< 0.05				< 0.05				< 0.05		
Pb	mg/L		< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001		
Li	mg/L		< 0.001				< 0.001				< 0.005				< 0.005				< 0.005		
Mg	mg/L		0.04				0.03				< 0.05				< 0.05				0.05		
Mn	mg/L		0.0012				0.0014				0.007				0.001				0.004		
Hg	ug/L		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02		
Mo	mg/L		< 0.0001				< 0.0001				< 0.0005				< 0.0005				< 0.0005		
Ni	mg/L		< 0.0002				< 0.0002				< 0.001				< 0.001				0.001		
P	mg/L		0.07				0.08				< 0.15				< 0.15				< 0.15		
K	mg/L		0.06				0.05				< 0.1				< 0.1				< 0.1		
Se	mg/L		< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001		
Si	mg/L		2.82				3.8				4.5				4				4.2		
Ag	mg/L		< 0.00005				< 0.00005				< 0.00025				< 0.00025				< 0.00025		
Na	mg/L		0.02				< 0.01				< 0.05				< 0.05				0.14		
Sr	mg/L		0.0005				0.0013				< 0.001				< 0.001				< 0.001		
Te	mg/L		< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001		
Tl	mg/L		< 0.00002				< 0.00002				< 0.0001				< 0.0001				< 0.0001		
Th	mg/L		< 0.0001				< 0.0001				< 0.0005				< 0.0005				< 0.0005		
Sn	mg/L		< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001		
Ti	mg/L		< 0.0002				0.0004				< 0.001				< 0.001				< 0.001		
U	mg/L		< 0.0001				< 0.0001				< 0.0005				< 0.0005				< 0.0005		
V	mg/L		< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001		
Zn	mg/L		0.002				0.001				< 0.005				< 0.005				< 0.005		
Zr	mg/L		< 0.002				< 0.002				< 0.01				< 0.01				< 0.01		

Weeks	#	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119
Date		9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	11-Dec-07	18-Dec-07	25-Dec-07	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	12-Feb-08	19-Feb-08
Leachate Volume Added (mL)		450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)		435	445	410	430	435	430	425	440	435	425	425	415	415	450	430	415	405	385	400	420
pH	Effluent (units)	5.42	5.43	5.47	5.74	5.49	5.50	5.52	5.38	5.36	5.47	5.49	5.62	5.77	5.80	5.65	5.63	5.71	5.58	5.63	5.61
Cond.	(umhos/cm)	3	3	2	2	3	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
ORP	mV	125	110	110	120	125	120	130	110	130	120	125	120	110	110	115	90	105	110	110	100
Sulphate	(mg/L)	1	1	1	1	< 1	< 1	< 1	1	1	1	1	< 1	1	2	2	< 1	1	1	1	1
Acidity	(mg CaCO3/L)	1	1	1	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2
Alkalinity	(mg CaCO3/L)	2	1	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L		0.15				0.11				0.1				0.12				0.16		
Chloride	mg/L		< 0.2				< 0.2				< 0.2				< 0.2				< 0.2		
TDS	mg/L		27				< 10				43				< 10				10		
Al	mg/L		0.011				0.011				0.006				< 0.005				< 0.005		
Sb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
As	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Ba	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Be	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Bi	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
B	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05		
Cd	mg/L		< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002		
Ca	mg/L		0.13				0.13				0.31				0.15				< 0.05		
Cr	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Co	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Cu	mg/L		0.001				0.002				0.003				0.001				< 0.001		
Fe	mg/L		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05		
Pb	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Li	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Mg	mg/L		< 0.05				< 0.05				0.05				< 0.05				< 0.05		
Mn	mg/L		0.001				0.001				0.002				< 0.001				< 0.001		
Hg	ug/L		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02		
Mo	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005		
Ni	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
P	mg/L		< 0.15				< 0.15				< 0.15				< 0.15				< 0.15		
K	mg/L		< 0.1				< 0.1				< 0.1				0.5				< 0.1		
Se	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Si	mg/L		4.4				4.4				5.1				6				2.8		
Ag	mg/L		< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025		
Na	mg/L		< 0.05				< 0.05				< 0.05				0.13				0.05		
Sr	mg/L		< 0.001				< 0.001				0.011				< 0.001				< 0.001		
Te	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Tl	mg/L		< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001		
Th	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005		
Sn	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Ti	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
U	mg/L		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005		
V	mg/L		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001		
Zn	mg/L		< 0.005				< 0.005				0.061				0.005				< 0.005		
Zr	mg/L		< 0.01				< 0.01				< 0.01				< 0.01				< 0.01		

Weeks	#	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139
Date		26-Feb-08	4-Mar-08	11-Mar-08	18-Mar-08	25-Mar-08	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08
Leachate Volume Added (mL)		450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)		420	420	425	445	440	430	420	420	425	440	430	450	450	455	445	445	470	460	450	445
pH	Effluent (units)	5.64	5.76	5.75	5.90	5.73	5.72	5.78	5.96	5.96	6.15	5.92	5.81	5.84	5.82	5.82	5.79	5.79	5.81	5.87	5.98
Cond.	(umhos/cm)	3	3	3	2	2	3	3	3	2	3	2	2	3	3	3	3	3	3	2	2
ORP	mV	110	110	115	110	120	110	115	110	100	115	110	90	98	95	100	95	115	100	90	110
Sulphate	(mg/L)	1	< 1	1	1	1	1	2	< 1	< 1	1	< 1	< 1	< 1	1	1	< 1	< 1	1	1	< 1
Acidity	(mg CaCO3/L)	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	1	1	1	1
Alkalinity	(mg CaCO3/L)	2	2	2	2	2	2	2	2	2	3	2	2	3	2	2	2	2	2	2	3
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L		0.12				0.1				0.1				0.08				< 0.05		
Chloride	mg/L		< 0.2				< 0.2				< 0.2				< 0.2				< 0.2		
TDS	mg/L		19				20				< 10				< 10				14		
Al	mg/L		0.008				< 0.005				0.003				0.015				< 0.001		
Sb	mg/L		< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002		
As	mg/L		< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002		
Ba	mg/L		< 0.001				< 0.001				0.0004				< 0.001				0.0003		
Be	mg/L		< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002		
Bi	mg/L		< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002		
B	mg/L		< 0.05				< 0.05				< 0.01				< 0.05				< 0.01		
Cd	mg/L		< 0.0002				< 0.0002				< 0.00004				< 0.0002				< 0.00004		
Ca	mg/L		0.1				0.08				0.07				0.5				0.07		
Cr	mg/L		< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002		
Co	mg/L		< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002		
Cu	mg/L		0.001				0.001				0.0013				0.01				0.0008		
Fe	mg/L		< 0.05				< 0.05				< 0.01				< 0.05				< 0.01		
Pb	mg/L		< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002		
Li	mg/L		< 0.001				0.002				< 0.0002				< 0.001				0.0002		
Mg	mg/L		< 0.05				< 0.05				0.02				< 0.05				0.03		
Mn	mg/L		< 0.001				< 0.001				0.0007				0.003				0.0008		
Hg	ug/L		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02		
Mo	mg/L		< 0.0005				< 0.0005				< 0.0001				< 0.0005				< 0.0001		
Ni	mg/L		< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002		
P	mg/L		0.2				0.2				0.12				< 0.15				0.11		
K	mg/L		< 0.1				0.1				0.06				< 0.1				0.06		
Se	mg/L		< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002		
Si	mg/L		5.8				5.5				5.66				5.2				5.58		
Ag	mg/L		< 0.00025				< 0.00025				< 0.00005				< 0.00025				< 0.00005		
Na	mg/L		< 0.05				< 0.05				< 0.01				< 0.05				0.01		
Sr	mg/L		< 0.001				< 0.001				0.0003				0.002				0.0003		
Te	mg/L		< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002		
Tl	mg/L		< 0.0001				< 0.0001				< 0.00002				< 0.0001				< 0.00002		
Th	mg/L		< 0.0005				< 0.0005				< 0.0001				< 0.0005				< 0.0001		
Sn	mg/L		< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002		
Ti	mg/L		< 0.001				< 0.001				0.0004				< 0.001				0.0005		
U	mg/L		< 0.0005				< 0.0005				< 0.0001				< 0.0005				< 0.0001		
V	mg/L		< 0.001				< 0.001				0.0003				< 0.001				0.0002		
Zn	mg/L		< 0.005				< 0.005				< 0.001				< 0.005				< 0.001		
Zr	mg/L		< 0.01				< 0.01				< 0.002				< 0.01				< 0.002		

Weeks	#	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
Date		15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	12-Aug-08	19-Aug-08	26-Aug-08	2-Sep-08	9-Sep-08	16-Sep-08	23-Sep-08	30-Sep-08	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)		430	445	420	400	395	415	425	420	425	445	435	465	450	455	425	410	410	410	420	440	410
pH	Effluent (units)	5.77	5.88	5.62	6.39	5.94	6.42	5.94	6.27	5.80	5.84	5.93	5.93	5.83	6.02	5.99	6.03	6.27	6.30	6.11	6.25	6.22
Cond.	(umhos/cm)	2	2	3	2	2	2	2	2	2	2	2	2	2	3	3	3	4	4	4	4	4
ORP	mV	110	110	105	90	110	105	110	100	100	110	100	100	100	105	100	95	100	120	120	130	140
Sulphate	(mg/L)	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	1	1	2	< 1	2	1	< 1	1	2	< 1	1	< 1	< 1
Acidity	(mg CaCO3/L)	1	2	2	2	1	1	1	1	2	1	1	2	2	< 1	2	2	2	2	2	2	2
Alkalinity	(mg CaCO3/L)	3	3	2	3	2	3	2	2	2	2	2	2	2	2	2	2	3	2	3	3	2
Total P	mg/L																					0.13
TDP	mgP/L																					0.11
Fluoride	mg/L		< 0.05				0.07				< 0.05				< 0.05				0.09			0.14
Chloride	mg/L		< 0.2				< 0.2				< 0.2				< 0.2				< 0.2			< 0.2
TDS	mg/L		< 10				< 10				23				13				19			18
Al	mg/L		< 0.001				< 0.005				< 0.001				0.009				< 0.001			0.002
Sb	mg/L		< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
As	mg/L		< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Ba	mg/L		0.0002				< 0.001				0.0004				< 0.001				< 0.0002			0.0003
Be	mg/L		< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Bi	mg/L		< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
B	mg/L		< 0.01				< 0.05				< 0.01				< 0.05				< 0.01			< 0.01
Cd	mg/L		< 0.00004				< 0.0002				< 0.00004				< 0.0002				< 0.00004			< 0.00004
Ca	mg/L		0.07				0.1				0.06				0.09				0.04			0.08
Cr	mg/L		< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Co	mg/L		< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Cu	mg/L		0.0008				0.001				0.0016				0.007				0.0012			0.013
Fe	mg/L		< 0.01				< 0.05				< 0.01				< 0.05				< 0.01			< 0.01
Pb	mg/L		< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Li	mg/L		< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			0.0002
Mg	mg/L		0.03				< 0.05				0.02				< 0.05				0.01			0.02
Mn	mg/L		0.0008				< 0.001				0.0007				< 0.001				0.0004			0.0005
Hg	ug/L		< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			< 0.02
Mo	mg/L		< 0.0001				< 0.0005				< 0.0001				< 0.0005				< 0.0001			< 0.0001
Ni	mg/L		< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			0.0002
P	mg/L		0.09				< 0.15				0.1				< 0.15				0.09			0.19
K	mg/L		0.05				< 0.1				0.05				< 0.1				0.05			0.06
Se	mg/L		< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Si	mg/L		4.86				4				5.49				5.5				4.51			6.05
Ag	mg/L		< 0.00005				< 0.00025				< 0.00005				< 0.00025				< 0.00005			< 0.00005
Na	mg/L		0.02				< 0.05				0.01				< 0.05				< 0.01			0.05
Sr	mg/L		0.0003				< 0.001				0.0003				< 0.001				< 0.0002			0.0003
Te	mg/L		< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Tl	mg/L		< 0.00002				< 0.0001				< 0.00002				< 0.0001				< 0.00002			< 0.00002
Th	mg/L		< 0.0001				< 0.0005				< 0.0001				< 0.0005				< 0.0001			< 0.0001
Sn	mg/L		< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Ti	mg/L		0.0003				< 0.001				0.0003				< 0.001				0.0002			0.0005
U	mg/L		< 0.0001				< 0.0005				< 0.0001				< 0.0005				< 0.0001			< 0.0001
V	mg/L		< 0.0002				< 0.001				< 0.0002				< 0.001				0.0003			0.0003
Zn	mg/L		< 0.001				< 0.005				0.001				< 0.005				0.001			0.002
Zr	mg/L		< 0.002				< 0.01				< 0.002				< 0.01				< 0.002			< 0.002

Humidity Cell Sample Data

HC 29 - Pre-Leached Granite
04-ARD-139-008
04-ARD-139 -035

S-Total:	0.06	%
S^{2-}:	0.05	%
NP:	0.00	$CaCO_3$/1000 t
CaNP:	0.80	$CaCO_3$/1000 t
AP:	1.56	$CaCO_3$/1000 t

Weeks	#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Date		15-Nov-05	22-Nov-05	29-Nov-05	6-Dec-05	13-Dec-05	20-Dec-05	27-Dec-05	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	14-Feb-06	21-Feb-06	28-Feb-06	7-Mar-06	14-Mar-06	21-Mar-06	28-Mar-06
Leachate Volume Added (mL)		600	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
Leachate Volume Recovered (mL)		415	475	375	400	480	400	385	500	400	385	400	400	400	375	420	385	390	390	405	370
pH	Effluent (units)	3.08	3.33	3.78	4.05	4.15	4.19	4.15	4.00	3.91	3.88	4.74	4.50	4.51	4.62	4.60	5.02	4.80	4.52	4.37	5.02
Cond.	(umhos/cm)	2760	1356	319	107	55	33	32	19	28	25	25	23	20	24	22	17	20	18	18	20
ORP	mV	460	430	390	355	310	305	290	335	300	290	245	230	250	310	210	230	210	260	160	220
Sulphate	(mg/L)	3	2	3	4	5	5	4	4	5	3	4	5	< 1	3	3	3	4	3	2	4
Acidity	(mg CaCO3/L)	380	185	38	21	12	10	10	9	11	19	6	7	7	5	7	6	5	6	6	4
Alkalinity	(mg CaCO3/L)											< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L	13.00				0.50				0.30				0.30				0.26			
Chloride	mg/L	756				7.0				2.0				0.9				0.9			
TDS	mg/L	1309				35				53				52				22			
Al	mg/L	44.4				0.54				0.20				0.18				0.15			
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ba	mg/L	0.63				0.023				0.018				0.018				0.016			
Be	mg/L	0.002				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Cd	mg/L	0.0016				< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L	141				1.12				0.38				0.41				0.27			
Cr	mg/L	0.015				< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L	0.034				0.002				0.001				0.001				0.001			
Cu	mg/L	0.14				0.003				0.002				0.002				0.002			
Fe	mg/L	24.9				0.42				0.10				0.15				0.10			
Pb	mg/L	0.023				< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L	0.31				0.006				0.002				0.002				0.002			
Mg	mg/L	79.3				0.86				0.33				0.30				0.34			
Mn	mg/L	1.34				0.012				0.004				0.004				0.004			
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Ni	mg/L	0.065				< 0.001				0.001				< 0.001				0.001			
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L	19				1.2				0.5				0.5				0.3			
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				0.001			
Si	mg/L	1				10.7				8.1				7.7				7.7			
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L	1.58				0.25				0.38				0.09				0.22			
Sr	mg/L	0.17				0.005				0.003				0.004				0.003			
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L	0.0002				< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L	0.0008				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L	0.14				0.003				0.001				0.001				< 0.001			
U	mg/L	0.0023				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L	0.011				< 0.001				< 0.001				< 0.001				< 0.001			
Zn	mg/L	0.7				0.039				0.020				0.021				0.019			
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Date		4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	16-May-06	23-May-06	30-May-06	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	15-Aug-06
Leachate Volume Added (mL)		400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
Leachate Volume Recovered (mL)		395	400	385	395	405	400	410	385	400	395	400	420	405	415	390	385	410	380	400	395
pH	Effluent (units)	5.31	4.18	4.82	4.87	4.66	4.68	4.67	4.67	4.69	4.63	4.71	4.72	4.70	4.69	4.71	4.75	4.78	4.71	4.70	4.64
Cond.	(umhos/cm)	20	17	13	13	14	14	14	12	12	16	17	13	12	11	12	12	12	12	13	14
ORP	mV	115	195	210	200	130	260	250	210	220	210	205	200	210	245	265	270	300	290	315	300
Sulphate	(mg/L)	4	4	2	3	4	3	3	4	4	3	4	2	3	3	2	3	4	3	3	3
Acidity	(mg CaCO3/L)	6	8	4	3	4	4	4	4	4	5	4	4	4	4	3	4	4	3	3	4
Alkalinity	(mg CaCO3/L)	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	1	1	1	1	1	1
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L	0.18				0.19				0.19				0.15				0.15			
Chloride	mg/L	0.7				0.7				0.6				0.5				0.2			
TDS	mg/L	<25*				47				81				14				17			
Al	mg/L	0.13				0.084				0.076				0.082				0.084			
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ba	mg/L	0.016				0.014				0.012				0.012				0.013			
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L	0.29				0.20				0.17				0.17				0.23			
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L	0.001				0.001				0.001				0.001				0.001			
Cu	mg/L	0.002				0.001				0.001				0.002				0.002			
Fe	mg/L	0.10				0.09				0.08				0.1				0.13			
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L	0.001				0.001				0.001				< 0.001				< 0.001			
Mg	mg/L	0.29				0.29				0.26				0.29				0.32			
Mn	mg/L	0.004				0.003				0.003				0.004				0.004			
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Ni	mg/L	0.001				0.001				< 0.001				0.001				0.002			
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L	0.4				0.3				0.2				0.3				0.3			
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L	7.4				6.9				5.4				5.9				6.9			
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L	0.14				< 0.05				< 0.05				< 0.05				0.06			
Sr	mg/L	0.002				0.003				0.002				0.002				0.003			
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Zn	mg/L	0.032				0.021				0.022				0.025				0.029			
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Date		22-Aug-06	29-Aug-06	5-Sep-06	12-Sep-06	19-Sep-06	26-Sep-06	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06	14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	12-Dec-06	19-Dec-06	26-Dec-06	2-Jan-07
Leachate Volume Added (mL)		400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
Leachate Volume Recovered (mL)		395	405	405	400	380	405	400	355	395	370	405	360	390	400	395	360	385	385	400	380
pH	Effluent (units)	4.62	4.60	4.49	4.64	4.69	4.72	4.68	4.94	4.96	4.74	4.74	4.72	4.69	4.74	4.69	4.70	4.71	4.72	4.79	4.73
Cond.	(umhos/cm)	13	13	14	12	13	11	15	13	12	14	14	14	13	12	13	13	12	13	10	12
ORP	mV	300	310	290	265	295	290	300	300	260	270	280	290	275	275	275	265	265	260	260	255
Sulphate	(mg/L)	3	3	4	3	4	3	3	3	3	4	3	3	5	1	3	3	3	3	2	3
Acidity	(mg CaCO3/L)	4	5	4	4	4	4	4	4	4	7	4	4	3	4	4	4	4	4	2	4
Alkalinity	(mg CaCO3/L)	1	1		1	1	1	1	1	1	1	1	1	1	1	1	< 1	1	1	< 1	1
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L	0.15				0.14				0.10				0.12				< 0.05			
Chloride	mg/L	0.2				0.6				0.5				0.5				< 0.2			
TDS	mg/L	22				23				37				15				98			
Al	mg/L	0.056				0.052				0.140				0.056				0.055			
Sb	mg/L	<0.001				<0.001				<0.001				< 0.001				< 0.001			
As	mg/L	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Ba	mg/L	0.012				0.011				0.011				0.01				0.01			
Be	mg/L	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Bi	mg/L	<0.001				<0.001				<0.001				< 0.001				< 0.001			
B	mg/L	<0.05				<0.05				<0.05				< 0.05				< 0.05			
Cd	mg/L	<0.0002				<0.0002				<0.0002				< 0.0002				< 0.0002			
Ca	mg/L	0.2				0.21				0.44				0.22				0.18			
Cr	mg/L	<0.001				<0.001				0.005				< 0.001				< 0.001			
Co	mg/L	0.001				0.001				0.001				0.001				0.001			
Cu	mg/L	0.002				0.002				0.006				0.002				0.002			
Fe	mg/L	0.09				0.13				0.16				0.16				0.12			
Pb	mg/L	0.001				<0.001				<0.001				< 0.001				< 0.001			
Li	mg/L	<0.001				<0.001				0.001				< 0.001				< 0.001			
Mg	mg/L	0.3				0.27				0.35				0.33				0.3			
Mn	mg/L	0.003				0.003				0.005				0.003				0.003			
Hg	ug/L	<0.02				<0.02				<0.02				< 0.02				< 0.02			
Mo	mg/L	<0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005			
Ni	mg/L	0.001				0.002				0.007				0.002				0.001			
P	mg/L	<0.15				<0.15				<0.15				< 0.15				< 0.15			
K	mg/L	0.2				0.3				0.1				0.1				0.2			
Se	mg/L	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Si	mg/L	6.3				5.8				7.2				6.1				5.6			
Ag	mg/L	<0.00025				<0.00025				<0.00025				< 0.00025				< 0.00025			
Na	mg/L	<0.05				<0.05				0.07				0.11				< 0.05			
Sr	mg/L	0.002				0.003				0.002				0.002				0.002			
Te	mg/L	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Tl	mg/L	<0.0001				<0.0001				<0.0001				< 0.0001				< 0.0001			
Th	mg/L	<0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005			
Sn	mg/L	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Ti	mg/L	<0.001				<0.001				0.003				< 0.001				< 0.001			
U	mg/L	<0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005			
V	mg/L	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Zn	mg/L	0.028				0.029				0.025				0.033				0.034			
Zr	mg/L	<0.01				<0.01				<0.01				< 0.01				< 0.01			

Weeks	#	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Date		9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	13-Feb-07	20-Feb-07	27-Feb-07	6-Mar-07	13-Mar-07	20-Mar-07	27-Mar-07	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07	########	########
Leachate Volume Added (mL)		400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
Leachate Volume Recovered (mL)		380	380	395	395	400	340	390	375	390	370	380	375	390	405	370	405	385	390	380	385
pH	Effluent (units)	4.72	4.77	4.77	4.77	4.75	4.74	4.79	4.89	4.80	4.74	4.86	4.82	4.76	4.78	4.79	4.77	4.76	4.73	4.78	4.77
Cond.	(umhos/cm)	12	14	10	10	13	11	11	12	11	11	12	12	13	10	12	11	11	11	10	11
ORP	mV	250	240	260	250	245	255	245	240	250	235	230	245	245	225	240	250	250	250	245	250
Sulphate	(mg/L)	2	5	4	2	2	2	3	3	3	2	4	3	2	2	3	2	3	3	2	2
Acidity	(mg CaCO3/L)	4	5	5	3	3	3	4	3	3	4	4	4	4	3	3	4	4	3	3	3
Alkalinity	(mg CaCO3/L)	1	1	1	1	1	1	1	< 1	1	1	1	1	1	1	1	< 1	< 1	1	1	1
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L	0.17				< 0.05				0.11				< 0.05				< 0.05			
Chloride	mg/L	0.25				< 0.2				< 0.2				0.23				< 0.2			
TDS	mg/L	50				27				< 10				< 10				16			
Al	mg/L	0.12				0.038				0.033				0.024				0.03			
Sb	mg/L	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001			
As	mg/L	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001			
Ba	mg/L	0.01				0.0077				0.008				0.006				0.006			
Be	mg/L	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001			
Bi	mg/L	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001			
B	mg/L	< 0.05				< 0.01				< 0.05				< 0.05				< 0.05			
Cd	mg/L	< 0.0002				0.0001				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L	0.21				0.15				0.16				0.11				0.13			
Cr	mg/L	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001			
Co	mg/L	0.001				0.0011				0.001				< 0.001				< 0.001			
Cu	mg/L	0.002				0.0051				0.002				0.002				0.003			
Fe	mg/L	0.16				0.14				0.15				0.13				0.08			
Pb	mg/L	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001			
Li	mg/L	< 0.001				0.0007				< 0.001				< 0.001				< 0.005			
Mg	mg/L	0.31				0.27				0.27				0.2				0.23			
Mn	mg/L	0.003				0.0029				0.003				0.003				0.003			
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L	< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005			
Ni	mg/L	0.001				0.0014				< 0.001				< 0.001				0.001			
P	mg/L	< 0.15				< 0.03				< 0.15				< 0.15				< 0.15			
K	mg/L	0.2				0.16				0.1				0.1				0.1			
Se	mg/L	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001			
Si	mg/L	5.3				5.59				5.1				4.8				4.9			
Ag	mg/L	< 0.00025				< 0.00005				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L	0.11				0.05				< 0.05				< 0.05				< 0.05			
Sr	mg/L	0.002				0.0015				0.001				0.001				0.001			
Te	mg/L	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001			
Tl	mg/L	< 0.0001				< 0.00002				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L	< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001			
Ti	mg/L	< 0.001				0.0007				< 0.001				< 0.001				< 0.001			
U	mg/L	< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005			
V	mg/L	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001			
Zn	mg/L	0.039				0.029				0.033				0.029				0.036			
Zr	mg/L	< 0.01				< 0.002				< 0.01				< 0.01				< 0.01			

Humidity Cell Sample Data

HC 29 - Pre-Leached Granite
04-ARD-139-008
04-ARD-139 -035

Weeks	#	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Date		########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	14-Aug-07	21-Aug-07	28-Aug-07	4-Sep-07	11-Sep-07	18-Sep-07	25-Sep-07	2-Oct-07	9-Oct-07
Leachate Volume Added (mL)		400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
Leachate Volume Recovered (mL)		380	380	390	380	370	395	375	405	385	385	395	380	395	390	405	375	405	390	390	385
pH	Effluent (units)	4.78	4.79	4.71	4.79	4.79	4.75	4.82	4.80	4.70	4.74	4.71	4.75	4.73	4.74	4.76	4.79	4.78	4.80	4.74	4.80
Cond.	(umhos/cm)	9	11	13	11	10	11	12	13	13	13	13	13	13	13	13	12	12	12	12	11
ORP	mV	230	250	230	240	250	230	250	250	240	230	230	250	230	225	230	240	260	235	220	255
Sulphate	(mg/L)	1	4	2	2	3	2	2	2	1	3	2	3	< 1	3	5	4	2	3	2	2
Acidity	(mg CaCO3/L)	3	3	4	4	3	3	3	3	3	3	3	4	2	3	3	2	3	2	3	3
Alkalinity	(mg CaCO3/L)	1	1	1	1	1	1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L	0.1				0.06				0.12				< 0.05				0.06			
Chloride	mg/L	0.23				< 0.2				< 0.2				< 0.2				< 0.2			
TDS	mg/L	23				16				< 10				10				16			
Al	mg/L	0.027				0.021				0.031				0.018				0.012			
Sb	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001			
As	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001			
Ba	mg/L	0.0064				0.0058				0.007				0.006				0.006			
Be	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001			
Bi	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001			
B	mg/L	< 0.01				< 0.01				< 0.05				< 0.05				< 0.05			
Cd	mg/L	0.00011				0.00011				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L	0.13				0.2				0.17				0.11				0.08			
Cr	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001			
Co	mg/L	0.0009				0.0009				0.001				< 0.001				< 0.001			
Cu	mg/L	0.0078				0.0073				0.005				0.003				0.007			
Fe	mg/L	0.14				0.15				0.19				0.13				0.14			
Pb	mg/L	0.0006				< 0.0002				< 0.001				< 0.001				< 0.001			
Li	mg/L	< 0.001				< 0.001				< 0.005				< 0.005				< 0.001			
Mg	mg/L	0.24				0.21				0.3				0.24				0.21			
Mn	mg/L	0.0028				0.0027				0.005				0.003				0.003			
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L	< 0.0001				< 0.0001				< 0.0005				< 0.0005				< 0.0005			
Ni	mg/L	0.0012				0.0013				0.001				0.004				0.002			
P	mg/L	< 0.03				< 0.03				< 0.15				< 0.15				< 0.15			
K	mg/L	0.15				0.14				0.2				0.1				0.1			
Se	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001			
Si	mg/L	6.04				5.45				6.2				5.4				4.9			
Ag	mg/L	< 0.00005				< 0.00005				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L	0.04				0.03				< 0.05				< 0.05				< 0.05			
Sr	mg/L	0.0013				0.0075				0.001				0.001				0.001			
Te	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001			
Tl	mg/L	< 0.00002				< 0.00002				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L	< 0.0001				< 0.0001				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001			
Ti	mg/L	0.0003				0.0005				< 0.001				< 0.001				< 0.001			
U	mg/L	< 0.0001				< 0.0001				< 0.0005				< 0.0005				< 0.0005			
V	mg/L	< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001			
Zn	mg/L	0.041				0.041				0.048				0.043				0.04			
Zr	mg/L	< 0.002				< 0.002				< 0.01				< 0.01				< 0.01			

Weeks	#	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Date		16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	11-Dec-07	18-Dec-07	25-Dec-07	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	12-Feb-08	19-Feb-08	26-Feb-08
Leachate Volume Added (mL)		400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
Leachate Volume Recovered (mL)		390	355	390	350	360	370	350	370	365	380	375	355	380	365	355	370	345	350	360	375
pH	Effluent (units)	4.77	4.82	5.02	4.79	4.74	4.71	4.72	4.50	4.67	4.64	4.62	4.92	4.64	4.64	4.65	4.64	4.68	4.65	4.63	4.73
Cond.	(umhos/cm)	12	10	10	10	12	11	11	15	15	13	14	12	13	14	14	14	12	13	15	13
ORP	mV	240	260	240	235	225	230	210	250	260	240	260	240	250	270	270	235	280	260	235	250
Sulphate	(mg/L)	2	3	2	< 1	2	3	3	3	3	2	< 1	2	4	3	2	< 1	2	3	4	3
Acidity	(mg CaCO3/L)	3	2	2	3	3	3	2	4	3	3	5	4	4	3	3	3	4	3	3	3
Alkalinity	(mg CaCO3/L)	1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L	< 0.05				0.06				0.08				0.06				0.05			
Chloride	mg/L	< 0.2				< 0.2				0.2				< 0.2				< 0.2			
TDS	mg/L	25				< 10				39				28				< 10			
Al	mg/L	0.028				0.027				0.022				0.016				0.009			
Sb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
As	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ba	mg/L	0.005				0.005				0.007				0.006				0.005			
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Cd	mg/L	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L	0.15				0.13				0.14				0.13				0.08			
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L	< 0.001				< 0.001				< 0.001				0.001				< 0.001			
Cu	mg/L	0.004				0.007				0.006				0.005				0.004			
Fe	mg/L	0.14				< 0.05				0.17				< 0.05				0.13			
Pb	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Mg	mg/L	0.23				0.25				0.28				0.21				0.19			
Mn	mg/L	0.003				0.003				0.003				0.002				0.003			
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Ni	mg/L	0.002				< 0.001				0.001				0.001				0.001			
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L	0.2				0.1				0.2				0.2				0.2			
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Si	mg/L	5.2				5.5				6.7				6.7				4.7			
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L	< 0.05				< 0.05				< 0.05				0.07				0.08			
Sr	mg/L	0.001				0.001				0.002				0.001				< 0.001			
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Zn	mg/L	0.05				0.039				0.049				0.052				0.036			
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	#	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
Date		4-Mar-08	11-Mar-08	18-Mar-08	25-Mar-08	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08
Leachate Volume Added (mL)		400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
Leachate Volume Recovered (mL)		370	375	375	380	365	385	365	380	360	380	370	385	375	380	375	370	350	370	360	375
pH	Effluent (units)	4.80	4.81	4.81	4.81	4.98	4.92	4.93	4.87	4.87	4.87	4.82	4.81	4.84	4.85	4.89	4.83	4.86	4.84	4.88	4.93
Cond.	(umhos/cm)	11	10	9	9	9	7	9	9	8	9	8	11	10	10	10	11	10	10	10	10
ORP	mV	260	255	250	275	265	255	260	240	235	265	270	250	235	250	260	280	275	275	245	270
Sulphate	(mg/L)	2	2	2	1	1	2	< 1	2	2	2	< 1	< 1	2	1	2	1	2	2	2	2
Acidity	(mg CaCO3/L)	3	3	3	3	3	2	2	3	2	2	3	4	3	3	3	2	2	2	3	2
Alkalinity	(mg CaCO3/L)	< 1	< 1	< 1	< 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L	< 0.05				0.05				< 0.05				< 0.05				< 0.05			
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2			
TDS	mg/L	23				22				< 10				34				18			
Al	mg/L	0.04				0.009				0.01				0.016				0.009			
Sb	mg/L	< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002			
As	mg/L	< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002			
Ba	mg/L	0.006				0.002				0.0044				0.004				0.0037			
Be	mg/L	< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002			
Bi	mg/L	< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002			
B	mg/L	< 0.05				< 0.05				< 0.01				< 0.05				< 0.01			
Cd	mg/L	< 0.0002				< 0.0002				0.00008				< 0.0002				0.00011			
Ca	mg/L	0.12				0.06				0.08				0.1				0.09			
Cr	mg/L	< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002			
Co	mg/L	< 0.001				< 0.001				0.0006				< 0.001				0.0006			
Cu	mg/L	0.005				0.002				0.0054				0.003				0.0066			
Fe	mg/L	0.12				0.08				0.12				0.09				0.12			
Pb	mg/L	< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002			
Li	mg/L	< 0.001				0.003				0.0004				0.001				0.0005			
Mg	mg/L	0.26				0.12				0.18				0.18				0.17			
Mn	mg/L	0.002				0.001				0.0022				0.002				0.0022			
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L	< 0.0005				< 0.0005				< 0.0001				< 0.0005				< 0.0001			
Ni	mg/L	< 0.001				< 0.001				0.0008				< 0.001				0.0009			
P	mg/L	< 0.15				< 0.15				< 0.03				< 0.15				0.04			
K	mg/L	0.2				0.2				0.12				0.1				0.11			
Se	mg/L	< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002			
Si	mg/L	7				5.4				5.76				5.6				5.79			
Ag	mg/L	< 0.00025				< 0.00025				< 0.00005				< 0.00025				< 0.00005			
Na	mg/L	0.05				< 0.05				< 0.01				< 0.05				0.05			
Sr	mg/L	0.001				< 0.001				0.0008				< 0.001				0.0008			
Te	mg/L	< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002			
Tl	mg/L	< 0.0001				< 0.0001				< 0.00002				< 0.0001				< 0.00002			
Th	mg/L	< 0.0005				< 0.0005				< 0.0001				< 0.0005				< 0.0001			
Sn	mg/L	< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002			
Ti	mg/L	< 0.001				< 0.001				0.0004				< 0.001				0.0005			
U	mg/L	< 0.0005				< 0.0005				< 0.0001				< 0.0005				< 0.0001			
V	mg/L	< 0.001				< 0.001				< 0.0002				< 0.001				< 0.0002			
Zn	mg/L	0.039				0.018				0.035				0.033				0.039			
Zr	mg/L	< 0.01				< 0.01				< 0.002				< 0.01				< 0.002			

Weeks	#	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
Date		22-Jul-08	29-Jul-08	5-Aug-08	12-Aug-08	19-Aug-08	26-Aug-08	2-Sep-08	9-Sep-08	16-Sep-08	23-Sep-08	30-Sep-08	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		400	400	400	400	400	400	400	400	400	400	400	400	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)		380	370	350	365	370	370	370	265	360	375	380	360	385	370	360	330	360	360	340	360
pH	Effluent (units)	4.88	4.78	5.10	5.08	4.99	4.85	4.88	4.93	5.02	5.00	4.95	4.92	5.05	5.01	5.07	4.97	5.13	5.05	5.27	5.07
Cond.	(umhos/cm)	10	11	9	11	9	10	10	7	9	10	8	8	9	9	9	10	13	10	10	10
ORP	mV	245	235	225	240	270	250	255	265	270	280	265	275	285	270	275	270	255	250	280	210
Sulphate	(mg/L)	1	2	1	2	2	1	2	2	1	3	2	3	2	< 1	2	< 1	1	3	1	2
Acidity	(mg CaCO3/L)	3	2	3	2	2	2	2	3	2	2	2	2	2	3	2	3	2	2	2	2
Alkalinity	(mg CaCO3/L)	1	1	2	1	1	1	1	1	1	2	1	2	1	1	1	2	2	1	2	2
Total P	mg/L																				< 0.02
TDP	mgP/L																				< 0.02
Fluoride	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			< 0.05
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2			< 0.2
TDS	mg/L	14				< 10				19				31				10			23
Al	mg/L	0.007				0.008				0.008				0.02				0.005			0.007
Sb	mg/L	< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
As	mg/L	< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Ba	mg/L	0.0035				0.004				0.0042				0.004				0.0042			0.0037
Be	mg/L	< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Bi	mg/L	< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
B	mg/L	< 0.01				< 0.05				< 0.01				< 0.05				< 0.01			< 0.01
Cd	mg/L	0.00011				< 0.0002				0.00013				< 0.0002				0.00009			< 0.00004
Ca	mg/L	0.09				0.11				0.08				0.11				0.06			0.13
Cr	mg/L	< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Co	mg/L	0.0006				< 0.001				0.0006				< 0.001				0.0005			0.0004
Cu	mg/L	0.0035				0.006				0.0092				0.012				0.0089			0.027
Fe	mg/L	0.11				0.12				0.12				0.15				0.1			0.06
Pb	mg/L	< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Li	mg/L	0.0003				< 0.001				0.0004				< 0.001				0.0003			0.0005
Mg	mg/L	0.17				0.17				0.17				0.19				0.15			0.13
Mn	mg/L	0.0022				0.003				0.0023				0.003				0.0022			0.0016
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			< 0.02
Mo	mg/L	< 0.0001				< 0.0005				< 0.0001				< 0.0005				< 0.0001			< 0.0001
Ni	mg/L	0.0008				< 0.001				0.001				0.001				0.0007			0.0009
P	mg/L	< 0.03				< 0.15				< 0.03				< 0.15				< 0.03			0.1
K	mg/L	0.11				0.1				0.11				0.1				0.16			0.16
Se	mg/L	< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Si	mg/L	5.4				4.7				5.2				6.1				5.83			6.94
Ag	mg/L	< 0.00005				< 0.00025				< 0.00005				< 0.00025				< 0.00005			< 0.00005
Na	mg/L	0.04				< 0.05				0.02				< 0.05				0.02			0.1
Sr	mg/L	0.0009				< 0.001				0.0008				< 0.001				0.0007			0.0007
Te	mg/L	< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Tl	mg/L	< 0.00002				< 0.0001				< 0.00002				< 0.0001				< 0.00002			< 0.00002
Th	mg/L	< 0.0001				< 0.0005				< 0.0001				< 0.0005				< 0.0001			< 0.0001
Sn	mg/L	< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Ti	mg/L	0.0004				< 0.001				0.0003				< 0.001				< 0.0002			0.0002
U	mg/L	< 0.0001				< 0.0005				< 0.0001				< 0.0005				< 0.0001			< 0.0001
V	mg/L	< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Zn	mg/L	0.038				0.038				0.041				0.041				0.038			0.031
Zr	mg/L	< 0.002				< 0.01				< 0.002				< 0.01				< 0.002			< 0.002

Humidity Cell Sample Data

HC 30 - Pre-Leached Granite
04-ARD-168-010
04-ARD-168 -011

S-Total:	0.03	%
S^{2-}:	0.03	%
NP:	0.80	t $CaCO_3$/1000 t
CaNP:	0.11	t $CaCO_3$/1000 t
AP:	0.94	t $CaCO_3$/1000 t

Weeks	#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Date		15-Nov-05	22-Nov-05	29-Nov-05	6-Dec-05	13-Dec-05	20-Dec-05	27-Dec-05	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	14-Feb-06	21-Feb-06	28-Feb-06	7-Mar-06	14-Mar-06	21-Mar-06	28-Mar-06
Leachate Volume Added (mL)		675	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)		520	505	440	455	445	455	425	445	485	455	450	450	450	445	440	455	435	445	450	445
pH	Effluent (units)	3.81	4.07	4.52	4.61	4.79	4.86	4.92	4.55	5.71	4.43	4.34	5.01	5.03	5.45	5.41	5.04	5.30	5.16	5.15	5.30
Cond.	(umhos/cm)	1947	709	118	26	17	13	12	6	8	7	9	8	6	6	5	5	4	5	5	6
ORP	mV	400	340	350	320	270	235	280	315	290	285	245	200	145	270	180	270	250	235	140	190
Sulphate	(mg/L)	11	1	2	1	1	1	1	1	1	1	1	< 1	< 1	1	1	1	1	< 1	< 1	1
Acidity	(mg CaCO3/L)	60	30	7	5	5	5	6	6	12	6	6	4	5	3	4	4	3	3	4	4
Alkalinity	(mg CaCO3/L)			< 1	< 1	< 1	< 1	< 1	< 1	< 1			< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1
Total P	mg/L																				
TDP	mgP/L																				
Fluoride	mg/L	2.00				0.20				0.20				0.20				0.16			
Chloride	mg/L	584				2.0				1.00				0.50				0.62			
TDS	mg/L	1250				20				43				44				11			
Al	mg/L	6.47				0.035				0.048				0.039				0.035			
Sb	mg/L	0.006				0.006				0.009				0.009				0.01			
As	mg/L	< 0.001				0.001				< 0.001				< 0.001				< 0.001			
Ba	mg/L	0.031				0.012				0.001				< 0.001				< 0.001			
Be	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
B	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Cd	mg/L	0.0019				< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	mg/L	248				1.62				0.31				0.25				0.16			
Cr	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Co	mg/L	0.013				< 0.001				< 0.001				< 0.001				< 0.001			
Cu	mg/L	0.065				< 0.001				< 0.001				< 0.001				< 0.001			
Fe	mg/L	0.82				< 0.05				< 0.05				< 0.05				< 0.05			
Pb	mg/L	0.43				< 0.001				< 0.001				< 0.001				< 0.001			
Li	mg/L	0.067				0.002				< 0.001				< 0.001				< 0.001			
Mg	mg/L	32.1				0.30				0.07				0.05				0.05			
Mn	mg/L	0.81				0.002				0.001				0.001				< 0.001			
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Ni	mg/L	0.029				< 0.001				< 0.001				< 0.001				< 0.001			
P	mg/L	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	mg/L	1.6				0.7				< 0.1				0.1				< 0.1			
Se	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				0.001			
Si	mg/L	1.3				7.8				7.3				6.8				7.3			
Ag	mg/L	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	mg/L	4.03				0.52				0.37				0.10				0.15			
Sr	mg/L	0.078				0.011				< 0.001				0.001				< 0.001			
Te	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	mg/L	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	mg/L	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	mg/L	0.001				< 0.001				< 0.001				< 0.001				< 0.001			
U	mg/L	0.0022				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	mg/L	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Zn	mg/L	0.2				< 0.005				< 0.005				< 0.005				< 0.005			
Zr	mg/L	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Date	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	16-May-06	23-May-06	30-May-06	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	15-Aug-06
Leachate Volume Added (mL)	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)	445	470	440	450	455	440	435	450	435	460	455	450	450	455	430	470	435	460	440	455
pH	6.01	5.38	6.39	5.51	5.14	5.31	5.39	5.30	5.26	5.33	5.42	5.38	5.23	5.36	5.30	5.24	5.35	5.37	5.39	5.25
Cond.	5	5	5	3	4	3	3	5	4	5	5	3	3	2	3	3	3	3	3	3
ORP	115	230	120	190	130	220	180	200	120	130	160	140	130	160	210	130	275	255	280	270
Sulphate	1	< 1	< 1	< 1	1	< 1	< 1	< 1	< 1	< 1	1	1	< 1	1	1	1	< 1	< 1	1	1
Acidity	2	4	4	2	3	2	3	2	2	3	3	2	2	2	3	2	2	2	2	2
Alkalinity	< 1	1	1	< 1	1	< 1	< 1	< 1	< 1	< 1	< 1	2	2	1	2	1	2	1	2	2
Total P																				
TDP																				
Fluoride	0.12				0.13				0.12				<0.1				<0.1			
Chloride	0.56				0.54				0.46				0.41				0.14			
TDS	<25*				30				120				32				30			
Al	0.02				< 0.005				0.006				0.014				0.01			
Sb	0.009				0.012				0.011				0.011				0.01			
As	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ba	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Be	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Bi	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
B	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Cd	< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002			
Ca	0.15				0.09				0.09				0.06				0.08			
Cr	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Co	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Cu	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Fe	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Pb	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Li	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Mg	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Mn	0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Hg	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Ni	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
P	< 0.15				< 0.15				< 0.15				< 0.15				< 0.15			
K	< 0.1				< 0.1				< 0.1				< 0.1				< 0.1			
Se	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Si	6.0				6.6				5.2				5.4				5.1			
Ag	< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			
Na	0.09				< 0.05				< 0.05				< 0.05				< 0.05			
Sr	< 0.001				< 0.001				< 0.001				< 0.001				0.006			
Te	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Tl	< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001			
Th	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
Sn	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Ti	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
U	< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			
V	< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			
Zn	0.007				< 0.005				< 0.005				< 0.005				< 0.005			
Zr	< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			

Weeks	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Date	22-Aug-06	29-Aug-06	5-Sep-06	12-Sep-06	19-Sep-06	26-Sep-06	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06	14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	12-Dec-06	19-Dec-06	26-Dec-06	2-Jan-07
Leachate Volume Added (mL)	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)	445	450	450	435	350	455	450	440	445	440	445	440	435	445	445	435	410	450	440	435
pH	5.10	5.26	5.01	5.25	5.31	5.38	5.21	5.23	5.48	5.32	5.35	5.40	5.3	5.5	5.29	5.34	5.25	5.30	5.27	5.35
Cond.	3	4	4	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	2	5
ORP	260	290	270	260	280	265	260	255	220	225	220	210	205	190	180	200	175	165	150	110
Sulphate	1	2	1	1	< 1	1	1	1	1	1	< 1	< 1	< 1	< 1	1	< 1	1	1	< 1	1
Acidity	2	2	3	3	2	2	3	2	2	2	2	2	2	3	2	2	2	2	1	3
Alkalinity	2	2	2	2	2	2	1	2	2	1	1	1	2	3	2	2	2	2	1	2
Total P																				
TDP																				
Fluoride	<0.1				<0.1				<0.1				<0.1				< 0.05			
Chloride	0.17				0.54				0.43				0.42				< 0.2			
TDS	39				14				11				17				11			
Al	<0.005				0.007				0.022				0.008				0.022			
Sb	0.012				0.011				0.013				0.013				0.012			
As	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Ba	<0.001				<0.001				0.002				< 0.001				< 0.001			
Be	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Bi	<0.001				<0.001				<0.001				< 0.001				< 0.001			
B	<0.05				<0.05				<0.05				< 0.05				< 0.05			
Cd	<0.0002				<0.0002				<0.0002				< 0.0002				< 0.0002			
Ca	0.08				0.47				0.09				0.17				0.07			
Cr	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Co	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Cu	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Fe	<0.05				<0.05				<0.05				< 0.05				< 0.05			
Pb	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Li	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Mg	<0.05				<0.05				<0.05				0.11				< 0.05			
Mn	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Hg	<0.02				<0.02				<0.02				< 0.02				< 0.02			
Mo	<0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005			
Ni	<0.001				<0.001				<0.001				< 0.001				< 0.001			
P	<0.15				<0.15				<0.15				< 0.15				< 0.15			
K	<0.1				<0.1				<0.1				< 0.1				< 0.1			
Se	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Si	4.9				5.5				6.9				5.6				4.2			
Ag	<0.00025				<0.00025				<0.00025				< 0.00025				< 0.00025			
Na	<0.05				<0.05				<0.05				0.11				< 0.05			
Sr	0.001				0.001				<0.001				< 0.001				< 0.001			
Te	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Tl	<0.0001				<0.0001				<0.0001				< 0.0001				< 0.0001			
Th	<0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005			
Sn	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Ti	<0.001				<0.001				<0.001				< 0.001				< 0.001			
U	<0.0005				<0.0005				<0.0005				< 0.0005				< 0.0005			
V	<0.001				<0.001				<0.001				< 0.001				< 0.001			
Zn	<0.005				0.009				<0.005				< 0.005				< 0.005			
Zr	<0.01				<0.01				<0.01				< 0.01				< 0.01			

Weeks	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
Date	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	13-Feb-07	20-Feb-07	27-Feb-07	6-Mar-07	13-Mar-07	20-Mar-07	27-Mar-07	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07	8-May-07
Leachate Volume Added (mL)	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)	435	440	440	440	445	455	430	450	440	460	410	445	420	445	450	440	440	440
pH	5.34	5.31	5.36	5.43	5.46	5.4	5.41	5.56	5.40	5.37	5.57	5.75	5.42	5.40	5.49	5.36	5.33	5.31
Cond.	3	3	4	3	3	3	3	3	2	3	3	3	3	2	3	3	4	3
ORP	110	100	95	100	100	105	110	100	105	100	100	100	110	105	105	100	100	100
Sulphate	1	1	2	< 1	1	< 1	< 1	2	1	1	1	1	1	1	1	1	2	< 1
Acidity	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2
Alkalinity	2	2	2	2	2	2	2	2	1	2	2	3	2	2	2	2	2	2
Total P																		
TDP																		
Fluoride	< 0.05				< 0.05				0.08				< 0.05				< 0.05	
Chloride	0.2				< 0.2				< 0.2				< 0.2				0.78	
TDS	32				< 10				< 10				16				16	
Al	0.007				0.003				< 0.005				< 0.005				< 0.005	
Sb	0.015				0.012				0.012				0.012				0.014	
As	< 0.001				0.0002				< 0.001				< 0.001				< 0.001	
Ba	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Be	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Bi	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
B	< 0.05				< 0.01				< 0.05				< 0.05				< 0.05	
Cd	< 0.0002				< 0.00004				< 0.0002				< 0.0002				< 0.0002	
Ca	0.12				0.07				0.07				< 0.05				< 0.05	
Cr	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Co	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Cu	< 0.001				0.0047				< 0.001				< 0.001				< 0.001	
Fe	< 0.05				< 0.01				< 0.05				< 0.05				< 0.05	
Pb	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Li	< 0.001				0.0003				< 0.001				< 0.001				< 0.005	
Mg	< 0.05				0.02				< 0.05				< 0.05				< 0.05	
Mn	< 0.001				0.0005				< 0.001				< 0.001				< 0.001	
Hg	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	
Mo	< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005	
Ni	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
P	< 0.15				0.05				< 0.15				< 0.15				< 0.15	
K	< 0.1				0.04				< 0.1				< 0.1				< 0.1	
Se	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Si	4.8				5.24				4.7				4.4				4.8	
Ag	< 0.00025				< 0.00005				< 0.00025				< 0.00025				< 0.00025	
Na	0.09				0.03				< 0.05				< 0.05				< 0.05	
Sr	< 0.001				0.0002				< 0.001				< 0.001				< 0.001	
Te	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Tl	< 0.0001				< 0.00002				< 0.0001				< 0.0001				< 0.0001	
Th	< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005	
Sn	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Ti	< 0.001				0.0003				< 0.001				< 0.001				< 0.001	
U	< 0.0005				< 0.0001				< 0.0005				< 0.0005				< 0.0005	
V	< 0.001				< 0.0002				< 0.001				< 0.001				< 0.001	
Zn	0.009				< 0.001				< 0.005				< 0.005				< 0.005	
Zr	< 0.01				< 0.002				< 0.01				< 0.01				< 0.01	

Humidity Cell Sample Data

HC 30 - Pre-Leached Granite
04-ARD-168-010
04-ARD-168 -011

Weeks	#	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
Date		########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	14-Aug-07	21-Aug-07	28-Aug-07	4-Sep-07	11-Sep-07	18-Sep-07	25-Sep-07	2-Oct-07
Leachate Volume Added (mL)		450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)		445	445	415	415	430	420	450	440	435	435	440	435	445	440	440	450	460	450	435	450	450
pH	Effluent (units)	5.44	5.35	5.39	5.45	5.38	5.39	5.42	5.40	5.55	5.45	5.39	5.39	5.41	5.37	5.45	5.39	5.42	5.50	5.43	5.41	5.50
Cond.	(umhos/cm)	2	2	2	2	3	2	2	2	3	2	3	3	2	2	2	2	2	2	2	2	2
ORP	mV	105	100	95	100	100	100	100	100	100	95	100	195	200	145	140	150	165	110	120	120	120
Sulphate	(mg/L)	1	1	1	1	1	< 1	2	1	1	< 1	< 1	1	< 1	< 1	< 1	2	3	< 1	1	1	2
Acidity	(mg CaCO3/L)	1	1	< 1	2	2	2	1	1	1	2	2	2	1	2	1	1	1	1	1	1	1
Alkalinity	(mg CaCO3/L)	2	2	2	2	2	2	2	1	1	2	1	1	2	2	1	2	2	2	1	2	2

Weeks	#	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Date		9-Oct-07	16-Oct-07	23-Oct-07	30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	11-Dec-07	18-Dec-07	25-Dec-07	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	12-Feb-08	19-Feb-08	26-Feb-08
Leachate Volume Added (mL)		450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)		415	450	430	435	455	435	435	445	450	415	440	440	410	425	435	440	440	425	395	430	440
pH	Effluent (units)	5.39	5.52	5.47	5.51	5.48	5.51	5.46	5.42	4.84	5.18	5.21	5.24	5.31	5.32	5.26	5.52	5.48	4.65	5.45	5.41	5.34
Cond.	(umhos/cm)	2	3	2	2	2	2	2	2	5	4	3	3	2	2	3	3	2	2	2	2	4
ORP	mV	110	105	100	105	120	120	120	110	145	125	110	130	125	120	115	110	110	130	125	105	105
Sulphate	(mg/L)	< 1	1	2	2	< 1	< 1	1	< 1	1	3	1	1	1	2	< 1	< 1	< 1	1	1	< 1	1
Acidity	(mg CaCO3/L)	1	2	1	2	1	1	1	1	2	2	2	3	2	2	2	2	2	3	2	2	2
Alkalinity	(mg CaCO3/L)	2	2	2	2	2	2	2	1	< 1	2	2	2	1	1	1	2	2	< 1	1	1	1

Weeks	#	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
Date		4-Mar-08	11-Mar-08	18-Mar-08	25-Mar-08	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########	########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08
Leachate Volume Added (mL)		450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)		445	450	440	450	445	445	440	455	435	445	455	455	455	460	450	455	470	460	455	465
pH	Effluent (units)	5.51	5.55	5.62	5.62	5.75	5.70	5.76	5.68	5.60	5.82	5.56	5.63	5.46	5.57	5.53	5.46	5.56	5.62	5.76	5.64
Cond.	(umhos/cm)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ORP	mV	115	110	115	125	110	120	110	100	105	110	100	100	100	110	100	110	115	100	100	100
Sulphate	(mg/L)	1	1	2	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1	2	< 1	< 1	< 1	2	2	< 1	< 1
Acidity	(mg CaCO3/L)	1	2	1	2	2	2	2	1	1	1	1	2	1	2	1	1	2	1	1	1
Alkalinity	(mg CaCO3/L)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2

Weeks	#	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
Date		22-Jul-08	29-Jul-08	5-Aug-08	12-Aug-08	19-Aug-08	26-Aug-08	2-Sep-08	9-Sep-08	16-Sep-08	23-Sep-08	30-Sep-08	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)		450	460	425	420	445	445	440	460	445	435	460	440	450	450	430	480	445	455	450	445
pH	Effluent (units)	5.45	5.76	6.27	5.71	5.69	5.67	5.59	5.66	5.69	5.73	5.65	5.74	5.82	5.86	5.90	5.82	5.78	5.85	5.98	5.91
Cond.	(umhos/cm)	2	2	4	2	2	2	2	1	2	2	2	2	2	2	2	3	2	2	3	2
ORP	mV	90	95	95	80	90	100	110	110	105	110	105	105	110	110	100	95	110	110	110	120
Sulphate	(mg/L)	< 1	< 1	< 1	< 1	< 1	1	2	2	1	3	1	< 1	3	< 1	< 1	1	< 1	2	< 1	1
Acidity	(mg CaCO3/L)	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2
Alkalinity	(mg CaCO3/L)	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Weeks	#	81	85	89	93	97	101	105	109	113	117	121
Total P	mg/L											
TDP	mgP/L											
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chloride	mg/L	0.21	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
TDS	mg/L	21	11	< 10	11	14	17	16	39	18	22	22
Al	mg/L	0.003	0.002	0.037	< 0.005	< 0.005	0.007	0.007	< 0.005	< 0.005	< 0.005	0.018
Sb	mg/L	0.01	0.014	0.015	0.015	0.013	0.013	0.012	0.016	0.017	0.017	0.017
As	mg/L	< 0.0002	< 0.0002	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ba	mg/L	0.0003	< 0.0002	0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Be	mg/L	< 0.0002	< 0.0002	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Bi	mg/L	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
B	mg/L	< 0.01	< 0.01	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cd	mg/L	< 0.00004	< 0.00004	0.0011	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Ca	mg/L	0.05	0.07	1.33	0.06	< 0.05	0.06	0.07	0.06	< 0.05	< 0.05	0.07
Cr	mg/L	< 0.0002	< 0.0002	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Co	mg/L	< 0.0002	< 0.0002	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Cu	mg/L	0.0023	0.0066	0.003	0.002	< 0.001	0.001	0.003	0.004	< 0.001	< 0.001	0.001
Fe	mg/L	< 0.01	< 0.01	0.22	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pb	mg/L	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Li	mg/L	< 0.001	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Mg	mg/L	0.02	0.02	0.44	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mn	mg/L	0.0005	0.0005	0.039	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Hg	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Mo	mg/L	< 0.0001	< 0.0001	0.0013	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Ni	mg/L	0.0043	< 0.0002	0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
P	mg/L	0.04	0.04	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
K	mg/L	0.05	0.04	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Se	mg/L	< 0.0002	< 0.0002	0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Si	mg/L	3.98	5.45	5.5	5.3	4.4	5	5	6.2	7.3	6	7.5
Ag	mg/L	< 0.00005	< 0.00005	0.0009	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Na	mg/L	0.03	0.02	0.66	0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.06	< 0.05
Sr	mg/L	< 0.0002	0.0014	0.006	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Te	mg/L	< 0.0002	< 0.0002	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tl	mg/L	< 0.00002	< 0.00002	0.0008	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Th	mg/L	< 0.0001	< 0.0001	0.0008	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Sn	mg/L	< 0.0002	< 0.0002	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ti	mg/L	< 0.0002	< 0.0002	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
U	mg/L	< 0.0001	< 0.0001	0.0007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
V	mg/L	< 0.0002	< 0.0002	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Zn	mg/L	0.002	0.002	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	< 0.005
Zr	mg/L	< 0.002	< 0.002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Weeks	#	125	129	133	137	141	145	149	153	157	160
Total P	mg/L										< 0.02
TDP	mgP/L										< 0.02
Fluoride	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chloride	mg/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
TDS	mg/L	30	13	41	19	12	< 10	< 10	32	21	24
Al	mg/L	< 0.005	< 0.001	0.009	< 0.001	< 0.001	< 0.005	0.002	0.059	< 0.001	0.002
Sb	mg/L	0.015	0.014	0.013	0.013	0.015	0.015	0.015	0.013	0.014	0.014
As	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002
Ba	mg/L	< 0.001	0.0003	< 0.001	0.0008	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	0.0002
Be	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002
Bi	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002
B	mg/L	< 0.05	< 0.01	< 0.05	< 0.01	< 0.01	< 0.05	< 0.01	< 0.05	< 0.01	< 0.01
Cd	mg/L	< 0.0002	< 0.00004	< 0.0002	< 0.00004	< 0.00004	< 0.0002	< 0.00004	< 0.0002	< 0.00004	< 0.00004
Ca	mg/L	< 0.05	0.04	< 0.05	0.06	0.04	< 0.05	0.03	< 0.05	0.03	0.09
Cr	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002
Co	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002
Cu	mg/L	< 0.001	0.0027	< 0.001	0.002	0.0009	0.001	0.0022	0.006	0.0039	0.016
Fe	mg/L	< 0.05	< 0.01	< 0.05	0.02	< 0.01	< 0.05	< 0.01	< 0.05	< 0.01	< 0.01
Pb	mg/L	< 0.001	< 0.0002	< 0.001	0.0003	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002
Li	mg/L	0.003	< 0.0002	< 0.001	0.0004	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	0.0003
Mg	mg/L	< 0.05	0.02	< 0.05	0.04	0.02	< 0.05	0.02	< 0.05	0.02	0.02
Mn	mg/L	< 0.001	0.0004	< 0.001	0.0013	0.0006	< 0.001	0.0004	< 0.001	0.0007	0.0007
Hg	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Mo	mg/L	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001
Ni	mg/L	< 0.001	< 0.0002	< 0.001	0.0002	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	0.0005
P	mg/L	< 0.15	< 0.03	< 0.15	< 0.03	< 0.03	< 0.15	< 0.03	< 0.15	< 0.03	0.18
K	mg/L	< 0.1	0.03	< 0.1	0.05	0.05	< 0.1	0.03	< 0.1	0.05	0.05
Se	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002
Si	mg/L	7.6	5.25	5.5	5.72	5.41	5.2	5.9	5.7	6.99	7.58
Ag	mg/L	< 0.00025	< 0.00005	< 0.00025	< 0.00005	< 0.00005	< 0.00025	< 0.00005	< 0.00025	< 0.00005	< 0.00005
Na	mg/L	< 0.05	< 0.01	< 0.05	0.02	0.02	< 0.05	0.01	< 0.05	0.05	0.16
Sr	mg/L	< 0.001	< 0.0002	< 0.001	0.0003	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002
Te	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002
Tl	mg/L	< 0.0001	< 0.00002	< 0.0001	< 0.00002	< 0.00002	< 0.0001	< 0.00002	< 0.0001	< 0.00002	< 0.00002
Th	mg/L	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001
Sn	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002
Ti	mg/L	< 0.001	0.0002	< 0.001	0.0002	0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002
U	mg/L	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0001
V	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002
Zn	mg/L	< 0.005	0.003	< 0.005	0.002	0.001	< 0.005	0.002	0.02	0.001	0.003
Zr	mg/L	< 0.01	< 0.002	< 0.01	< 0.002	< 0.002	< 0.01	< 0.002	< 0.01	< 0.002	< 0.002

Humidity Cell Sample Data

HC 31 - Pre-Leached Granite
04-ARD-168-012
04-ARD-168-013

$ Total:	0.02	%
C^{-1}:	0.02	%
NP_t:	0.30	CaCO3/1000 t
$CaNP_t$:	0.23	CaCO3/1000 t
AP_t:	0.40	CaCO3/1000 t

Weeks	#	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	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
Date		15-Nov-05	22-Nov-05	29-Nov-05	6-Dec-05	13-Dec-05	20-Dec-05	27-Dec-05	3-Jan-06	10-Jan-06	17-Jan-06	24-Jan-06	31-Jan-06	7-Feb-06	14-Feb-06	21-Feb-06	28-Feb-06	7-Mar-06	14-Mar-06	21-Mar-06	28-Mar-06	4-Apr-06	11-Apr-06	18-Apr-06	25-Apr-06	2-May-06	9-May-06	16-May-06	23-May-06	30-May-06	6-Jun-06	13-Jun-06	20-Jun-06	27-Jun-06	4-Jul-06	11-Jul-06	18-Jul-06	25-Jul-06	1-Aug-06	8-Aug-06	15-Aug-06	22-Aug-06	29-Aug-06	5-Sep-06	12-Sep-06	19-Sep-06	26-Sep-06	3-Oct-06	10-Oct-06	17-Oct-06	24-Oct-06	31-Oct-06	7-Nov-06	14-Nov-06	21-Nov-06	28-Nov-06	5-Dec-06	12-Dec-06	19-Dec-06	26-Dec-06	2-Jan-07	9-Jan-07	16-Jan-07	23-Jan-07	30-Jan-07	6-Feb-07	13-Feb-07	20-Feb-07	27-Feb-07	6-Mar-07	13-Mar-07	20-Mar-07	27-Mar-07	3-Apr-07	10-Apr-07	17-Apr-07	24-Apr-07	1-May-07
Leachate Volume Added (mL)		535	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425
Leachate Volume Recovered (mL)		467	425	425	425	410	430	425	425	465	430	415	420	420	440	410	415	405	425	425	430	405	420	405	450	425	445	430	420	440	415	430	440	445	420	420	420	420	420	420	420	420	430	405	425	430	425	395	415	440	410	405	410	415	405	410	415	380	410	405	410	415	405	410	405	395	425	410	400	405	400	410	415	425
pH	Effluent (units)	3.35	3.61	3.89	4.25	4.38	4.51	4.35	4.40	4.81	4.75	4.93	4.85	4.85	5.15	5.18	5.41	5.00	5.71	4.88	5.20	5.85	4.16	5.73	5.35	5.13	5.20	5.20	5.18	5.15	5.39	5.15	5.21	5.17	5.19	5.21	5.17	5.23	5.24	5.26	5.18	5.16	5.21	5.07	5.18	5.21	5.18	5.16	5.18	5.37	5.28	5.32	5.36	5.24	5.48	5.24	5.28	5.31	5.27	5.36	5.32	5.38	5.27	5.34	5.37	5.39	5.36	5.39	5.63	5.34	5.34	5.53	5.36	5.33	5.41	5.40	5.34	5.33	5.26
Cond.	(umhos/cm)	3140	1306	301	67	32	18	14	8	11	10	10	12	7	8	7	6	6	6	7	7	5	5	4	5	4	4	4	4	3	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
ORP	mV	430	410	390	335	305	290	300	325	315	295	290	280	180	160	285	230	290	240	245	150	140	120	100	160	200	150	135	120	115	150	120	105	120	120	165	190	130	290	280	310	315	280	295	240	265	285	275	270	255	230	220	215	245	235	205	230	245	190	235	205	210	220	200	240	250	245	240	240	240	230	240	240	225	225	220	230	240	200
Sulphate	mg/L	2	< 1	1	2	1	1	1	1	1	2	1	1	3	3	1	1	1	1	< 1	< 1	1	1	< 1	1	1	< 1	< 1	< 1	1	< 1	< 1	1	< 1	1	1	< 1	1	< 1	< 1	1	1	1	1	< 1	< 1	1	< 1	1	1	< 1	1	1	< 1	< 1	1	1	1	1	1	1	1	1	< 1	1	1	1	1	1	< 1	2	1
Acidity	(mg CaCO3/L)	270	135	17	13	8	7	2	7	7	4	6	5	3	3	5	4	3	4	3	3	4	10	3	2	3	3	3	3	3	3	3	3	2	3	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	1	2	1	3	2	2	1	2	2	2	2	2	2	2
Alkalinity	(mg CaCO3/L)					2	< 1			< 1	< 1	< 1	< 1																																																																																															
Chloride	mg/L			9.78		5.0		2		1.00		0.67		0.59				0.67				0.44				0.59				0.46				0.44				0.14			0.19				0.54						0.42																																												
TDS	mg/L			2133		27		48		19		13		26				13				16				10				16				16				26			21				9						2																																											
S	mg/L			90.1		8.260		0.264		0.094		0.038		0.061				0.033				0.058				< 0.005				0.058				0.014				0.012			< 0.005				0.008						0.037																																											
Sb	mg/L			< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																										
As	mg/L			0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																										
Ba	mg/L			0.047		0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																										
Be	mg/L			0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																										
Bi	mg/L			< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																										
B	mg/L			< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			< 0.05				< 0.05						< 0.05																																										
Cd	mg/L			0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002			< 0.0002				< 0.0002						< 0.0002																																										
Ca	mg/L			381		0.99		0.23		0.19		0.11		0.16				0.05				0.05				< 0.05				0.05				< 0.05				0.07			0.05				0.10						0.07																																									
Cr	mg/L			0.007		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																									
Co	mg/L			0.018		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																									
Cu	mg/L			0.01		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																									
Fe	mg/L			28.4		0.26		< 0.05		0.07		< 0.05		< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			< 0.05				< 0.05						< 0.05																																									
Pb	mg/L			0.025		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																									
Li	mg/L			0.1		< 0.001		0.002		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																									
Mg	mg/L			43.4		0.27		0.12		0.10		0.07		0.07				0.07				0.06				0.05				0.05				0.05				0.05			0.05				< 0.05						< 0.05																																									
Mn	mg/L			0.89		0.005		0.001		< 0.001		< 0.001		0.001				0.001				0.001				0.001				0.001				0.001				0.001			0.001				< 0.001						< 0.001																																									
Hg	mg/L			< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			< 0.0005				< 0.0005						< 0.0005																																									
Mo	mg/L			0.0009		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			< 0.0005				< 0.0005						< 0.0005																																									
Ni	mg/L			0.009		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																									
P	mg/L			0.03		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			< 0.01				< 0.01						< 0.01																																									
K	mg/L			2.0		0.7		< 0.1		< 0.1		< 0.1		< 0.1				< 0.1				< 0.1				< 0.1				< 0.1				< 0.1				< 0.1			< 0.1				< 0.1						< 0.1																																									
Se	mg/L			< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																									
Si	mg/L			1.0		9.6		2.7		7.5		7.5		6.7				6.5				5.6				5.4				5.7				6.7				5.4			5.6				5.6						6.7																																								
Ag	mg/L			< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025			< 0.00025				< 0.00025						< 0.00025																																									
Na	mg/L			0.87		< 0.05		< 0.05		0.30		0.17		0.08				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			0.09				0.06						0.02																																									
Sr	mg/L			0.1		0.002		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																									
Te	mg/L			< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																									
Tl	mg/L			< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001			< 0.0001				< 0.0001						< 0.0001																																									
Th	mg/L			0.0013		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			< 0.0005				< 0.0005						< 0.0005																																									
Ti	mg/L			< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																									
U	mg/L			0.009		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																									
V	mg/L			0.0016		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005			< 0.0005				< 0.0005						< 0.0005																																									
W	mg/L			0.01		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001			< 0.001				< 0.001						< 0.001																																									
Zr	mg/L			0.01		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005			< 0.005				< 0.005						< 0.005																																									
Zn	mg/L			0.05		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01			< 0.01				< 0.01						< 0.01																																									

Humidity Cell Sample Data

HC 31 - Pre-Leached Granite
04-ARD-168-012
04-ARD-168-013

Weeks	#	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102
Date		########	########	########	5-Jun-07	12-Jun-07	19-Jun-07	26-Jun-07	3-Jul-07	10-Jul-07	17-Jul-07	24-Jul-07	31-Jul-07	7-Aug-07	14-Aug-07	21-Aug-07	28-Aug-07	4-Sep-07	11-Sep-07	18-Sep-07	25-Sep-07	2-Oct-07	9-Oct-07	16-Oct-07	23-Oct-07
Leachate Volume Added (mL)		425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425
Leachate Volume Recovered (mL)		385	410	390	405	395	390	410	400	400	415	405	400	415	415	410	410	420	410	410	425	410	415	425	405
pH	Effluent (units)	5.36	5.34	5.39	5.39	5.35	5.35	5.37	5.35	5.42	5.34	5.34	5.34	5.34	5.31	5.37	5.34	5.37	5.43	5.42	5.41	5.58	5.36	5.38	5.43
Cond.	(umhos/cm)	2	2	2	2	3	2	2	3	3	4	3	3	2	3	3	3	2	2	2	2	2	2	3	2
ORP	mV	230	220	250	230	250	240	240	240	250	240	230	215	225	190	155	160	165	210	240	235	230	240	245	240
Sulphate	(mg/L)	2	1	< 1	1	< 1	< 1	1	1	< 1	< 1	< 1	2	1	< 1	< 1	1	1	< 1	1	1	1	< 1	1	1
Acidity	(mg CaCO3/L)	2	2	1	1	2	2	1	2	1	2	1	2	1	2	1	1	1	1	2	1	1	1	2	1
Alkalinity	(mg CaCO3/L)	2	2	2	2	2	2	2	2	2	2	1	1	1	2	2	2	2	2	1	2	2	2	2	2
Total P	mg/L																								
TDP	mgP/L																								
Fluoride	mg/L			0.06				< 0.05				0.07				< 0.05				< 0.05				< 0.05	
Chloride	mg/L			< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2	
TDS	mg/L			< 10				< 10				< 10				< 10				10				30	
Al	mg/L			< 0.001				0.002				< 0.005				< 0.005				< 0.005				0.006	
Sb	mg/L			< 0.0002				0.0003				< 0.001				< 0.001				< 0.001				< 0.001	
As	mg/L			< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001	
Ba	mg/L			< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001	
Be	mg/L			< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001	
Bi	mg/L			< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001	
B	mg/L			< 0.01				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05	
Cd	mg/L			< 0.00004				< 0.00004				< 0.0002				< 0.0002				< 0.0002				< 0.0002	
Ca	mg/L			< 0.01				0.06				0.09				< 0.05				< 0.05				< 0.05	
Cr	mg/L			0.0003				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001	
Co	mg/L			< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001	
Cu	mg/L			< 0.0002				0.0035				0.004				0.001				0.002				0.002	
Fe	mg/L			< 0.01				< 0.01				< 0.05				< 0.05				< 0.05				< 0.05	
Pb	mg/L			< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001	
Li	mg/L			< 0.001				< 0.001				< 0.005				< 0.005				< 0.001				< 0.001	
Mg	mg/L			< 0.01				0.03				< 0.05				< 0.05				< 0.05				< 0.05	
Mn	mg/L			< 0.0002				0.0005				0.002				< 0.001				< 0.001				< 0.001	
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02	
Mo	mg/L			< 0.0001				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005	
Ni	mg/L			< 0.0002				< 0.0002				< 0.001				< 0.001				0.001				0.001	
P	mg/L			0.07				< 0.03				< 0.15				< 0.15				< 0.15				< 0.15	
K	mg/L			< 0.02				0.03				< 0.1				< 0.1				< 0.1				< 0.1	
Se	mg/L			< 0.0002				< 0.0002				0.001				< 0.001				< 0.001				< 0.001	
Si	mg/L			< 0.05				5.01				5.7				5				4.8				5	
Ag	mg/L			0.00011				< 0.00005				< 0.00025				< 0.00025				< 0.00025				< 0.00025	
Na	mg/L			0.13				0.01				< 0.05				< 0.05				< 0.05				< 0.05	
Sr	mg/L			< 0.0002				0.0011				< 0.001				< 0.001				< 0.001				< 0.001	
Te	mg/L			< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001	
Tl	mg/L			< 0.00002				< 0.00002				< 0.0001				< 0.0001				< 0.0001				< 0.0001	
Th	mg/L			< 0.0001				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005	
Sn	mg/L			< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001	
Ti	mg/L			< 0.0002				< 0.0002				< 0.001				< 0.001				< 0.001				< 0.001	
U	mg/L			< 0.0001				< 0.0001				< 0.0005				< 0.0005				< 0.0005				< 0.0005	
V	mg/L			< 0.0002				0.0004				< 0.001				< 0.001				< 0.001				< 0.001	
Zn	mg/L			0.004				0.001				0.007				< 0.005				< 0.005				< 0.005	
Zr	mg/L			< 0.002				< 0.002				< 0.01				< 0.01				< 0.01				< 0.01	

Weeks	#	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132
Date		30-Oct-07	6-Nov-07	13-Nov-07	20-Nov-07	27-Nov-07	4-Dec-07	11-Dec-07	18-Dec-07	25-Dec-07	1-Jan-08	8-Jan-08	15-Jan-08	22-Jan-08	29-Jan-08	5-Feb-08	12-Feb-08	19-Feb-08	26-Feb-08	4-Mar-08	11-Mar-08	18-Mar-08	25-Mar-08	1-Apr-08	8-Apr-08	15-Apr-08	22-Apr-08	29-Apr-08	6-May-08	########	########
Leachate Volume Added (mL)		425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425
Leachate Volume Recovered (mL)		410	410	405	420	425	400	410	410	405	385	415	405	395	380	380	400	395	420	380	395	405	410	375	370	370	415	410	415	425	420
pH	Effluent (units)	5.62	5.42	5.44	5.56	5.23	4.78	5.29	5.45	5.29	5.05	5.23	5.07	5.35	5.35	5.46	5.49	5.47	5.45	5.56	5.54	5.58	5.60	5.70	5.55	5.73	5.86	5.86	5.76	5.71	5.76
Cond.	(umhos/cm)	2	2	2	2	2	5	3	2	3	4	3	4	3	3	3	2	2	3	3	3	2	2	3	2	2	2	2	2	2	3
ORP	mV	225	230	250	240	235	230	250	260	260	200	200	250	230	260	265	255	235	250	250	255	245	245	270	255	255	245	270	255	240	255
Sulphate	(mg/L)	1	< 1	< 1	< 1	< 1	1	< 1	1	1	< 1	2	1	< 1	1	1	< 1	1	1	1	1	< 1	< 1	1	1	< 1	1	< 1	1	1	< 1
Acidity	(mg CaCO3/L)	2	1	1	2	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2
Alkalinity	(mg CaCO3/L)	2	2	2	2	1	1	2	2	2	1	1	1	2	1	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2
Total P	mg/L																														
TDP	mgP/L																														
Fluoride	mg/L			< 0.05				< 0.05				0.05				< 0.05				< 0.05				< 0.05				< 0.05			
Chloride	mg/L			< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2			
TDS	mg/L			10				18				16				< 10				17				21				10			
Al	mg/L			0.009				0.006				< 0.005				< 0.005				0.009				0.005				< 0.001			
Sb	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.0003			
As	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002			
Ba	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002			
Be	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002			
Bi	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002			
B	mg/L			< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.01			
Cd	mg/L			< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.0002				< 0.00004			
Ca	mg/L			< 0.05				0.07				< 0.05				< 0.05				< 0.05				0.06				0.03			
Cr	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002			
Co	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002			
Cu	mg/L			0.002				0.003				< 0.001				< 0.001				< 0.001				0.002				0.0013			
Fe	mg/L			< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.01			
Pb	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002			
Li	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.003				< 0.0002			
Mg	mg/L			< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				0.01			
Mn	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002			
Hg	ug/L			< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			
Mo	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001			
Ni	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002			
P	mg/L			< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.15				< 0.03			
K	mg/L			< 0.1				< 0.1				< 0.1				< 0.1				< 0.1				0.1				0.04			
Se	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002			
Si	mg/L			5.3				4.4				6.9				4.6				5.6				5.1				5.09			
Ag	mg/L			< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00025				< 0.00005			
Na	mg/L			< 0.05				< 0.05				< 0.05				0.06				< 0.05				< 0.05				< 0.01			
Sr	mg/L			< 0.001				0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002			
Te	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002			
Tl	mg/L			< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.0001				< 0.00002			
Th	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001			
Sn	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002			
Ti	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.0002			
U	mg/L			< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0005				< 0.0001			
V	mg/L			< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				< 0.001				0.0004			
Zn	mg/L			0.008				< 0.005				< 0.005				< 0.005				< 0.005				< 0.005				0.002			
Zr	mg/L			< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.01				< 0.002			

Weeks	#	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
Date		########	3-Jun-08	10-Jun-08	17-Jun-08	24-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	22-Jul-08	29-Jul-08	5-Aug-08	12-Aug-08	19-Aug-08	26-Aug-08	2-Sep-08	9-Sep-08	16-Sep-08	23-Sep-08	30-Sep-08	7-Oct-08	14-Oct-08	21-Oct-08	28-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08	25-Nov-08	2-Dec-08
Leachate Volume Added (mL)		425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425	450	450	450	450	450	450	450	450
Leachate Volume Recovered (mL)		435	420	420	425	425	425	420	420	405	390	410	405	375	405	390	375	390	400	425	415	430	390	400	380	385	400	390	400
pH	Effluent (units)	5.69	5.75	5.63	5.73	5.70	5.72	5.73	5.72	5.86	5.75	5.81	5.85	5.91	5.83	5.26	5.80	5.93	5.70	5.82	5.81	5.96	5.82	6.00	6.37	6.29	6.23	6.14	6.09
Cond.	(umhos/cm)	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	1	2	2	2	2	2	3	2	3	3	3	3	3
ORP	mV	260	260	230	260	210	265	265	240	220	210	210	200	255	260	270	275	265	265	265	270	260	255	260	250	240	270	245	210
Sulphate	(mg/L)	1	< 1	< 1	1	1	2	< 1	< 1	< 1	1	2	1	1	< 1	< 1	2	< 1	2	< 1	1	1	< 1	< 1	< 1	< 1	2	< 1	1
Acidity	(mg CaCO3/L)	1	2	1	1	1	1	1	1	1	1	2	1	1	1	2	1	< 1	1	1	1	1	1	1	2	2	1	1	2
Alkalinity	(mg CaCO3/L)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2	3	2
Total P	mg/L																												< 0.02
TDP	mgP/L																												< 0.02
Fluoride	mg/L	< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05				< 0.05			< 0.05
Chloride	mg/L	< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2				< 0.2			< 0.2
TDS	mg/L	38				17				10				< 10				36				31				23			33
Al	mg/L	0.008				< 0.001				< 0.001				< 0.005				0.001				0.009				< 0.001			0.002
Sb	mg/L	< 0.001				0.0002				0.0002				< 0.001				0.0003				< 0.001				0.0003			0.0002
As	mg/L	< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Ba	mg/L	< 0.001				0.0003				0.0003				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Be	mg/L	< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Bi	mg/L	< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
B	mg/L	< 0.05				< 0.01				< 0.01				< 0.05				< 0.01				< 0.05				< 0.01			< 0.01
Cd	mg/L	< 0.0002				< 0.00004				< 0.00004				< 0.0002				< 0.00004				< 0.0002				< 0.00004			< 0.00004
Ca	mg/L	< 0.05				0.02				0.02				< 0.05				0.02				< 0.05				0.01			0.06
Cr	mg/L	< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Co	mg/L	< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Cu	mg/L	< 0.001				0.0015				0.0007				0.002				0.0039				0.005				0.002			0.01
Fe	mg/L	< 0.05				< 0.01				< 0.01				< 0.05				< 0.01				< 0.05				< 0.01			< 0.01
Pb	mg/L	< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Li	mg/L	< 0.001				0.0002				< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			0.0003
Mg	mg/L	< 0.05				0.01				0.01				< 0.05				0.01				< 0.05				< 0.01			< 0.01
Mn	mg/L	< 0.001				0.0002				0.0003				< 0.001				0.0002				< 0.001				0.0003			0.0003
Hg	ug/L	< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02				< 0.02			< 0.02
Mo	mg/L	< 0.0005				< 0.0001				< 0.0001				< 0.0005				< 0.0001				< 0.0005				< 0.0001			< 0.0001
Ni	mg/L	< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
P	mg/L	< 0.15				< 0.03				< 0.03				< 0.15				< 0.03				< 0.15				< 0.03			< 0.03
K	mg/L	< 0.1				0.04				0.04				< 0.1				0.04				< 0.1				0.05			0.04
Se	mg/L	< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Si	mg/L	5.3				4.85				5.05				3.7				5.26				6.8				6.17			7.2
Ag	mg/L	< 0.00025				< 0.00005				< 0.00005				< 0.00025				< 0.00005				< 0.00025				< 0.00005			< 0.00005
Na	mg/L	< 0.05				0.02				0.02				< 0.05				< 0.01				< 0.05				0.01			0.03
Sr	mg/L	< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Te	mg/L	< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Tl	mg/L	< 0.0001				< 0.00002				< 0.00002				< 0.0001				< 0.00002				< 0.0001				< 0.00002			< 0.00002
Th	mg/L	< 0.0005				< 0.0001				< 0.0001				< 0.0005				< 0.0001				< 0.0005				< 0.0001			< 0.0001
Sn	mg/L	< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
Ti	mg/L	< 0.001				< 0.0002				< 0.0002				< 0.001				< 0.0002				< 0.001				< 0.0002			< 0.0002
U	mg/L	< 0.0005				< 0.0001				< 0.0001				< 0.0005				< 0.0001				< 0.0005				< 0.0001			< 0.0001
V	mg/L	< 0.001				0.0003				0.0003				< 0.001				0.0004				< 0.001				0.0005			0.0005
Zn	mg/L	< 0.005				0.001				< 0.001				< 0.005				< 0.001				< 0.005				<0.005			0.005
Zr	mg/L	< 0.01				< 0.002				< 0.002				< 0.01				< 0.002				< 0.01				< 0.002			< 0.002

Humidity Cell Sample Data

HC - Coarse PK 2010

S-Total:	0.01	%
S^{2-}:	0.01	%
NP:	114.00	t $CaCO_3$/1000 t
CaNP:	11.7	t $CaCO_3$/1000 t
AP:	0.3	t $CaCO_3$/1000 t

Weeks	#	0	1	2	3	4
Date		29-Jul-10	5-Aug-10	12-Aug-10	19-Aug-10	26-Aug-10
Leachate Volume Added (mL)		250	250	250	250	250
Leachate Volume Recovered (mL)		170	230	200	230	235
pH	Effluent (units)	7.67	7.77	7.82	7.80	7.87
ORP	(umhos/cm)	331	405	407	378	327
Cond.	mV	365	393	283	198	171
Acidity	(mg/L)					
Acidity	(mg CaCO3/L)	5.3	3.7	4.5	5.0	3.1
Alkalinity	(mg CaCO3/L)	39.8	38.8	41.2	46.6	43.7
Sulphate	mg/L	36	6	5	6	7
Chloride	mgP/L	91	94	63	34	27
Fluoride	mg/L	0.31	0.34	0.29	0.31	0.31
Hardness	mg/L	80.2	81.4	58.9	34.5	34.9
Al	mg/L	0.0047	0.0027	0.0037	0.0137	0.0105
Sb	mg/L	0.0003	0.0004	< 0.0002	0.0004	0.0003
As	mg/L	0.0006	0.0011	0.0013	0.0009	0.0008
Ba	mg/L	0.0869	0.0766	0.0506	0.0544	0.0319
Be	mg/L	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Bi	mg/L	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001
B	mg/L	1.18	1.66	1.32	1.30	1.29
Cd	mg/L	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Ca	mg/L	19.1	19.1	13.7	8.22	7.99
Cr	mg/L	0.0042	0.0016	0.0016	0.0018	0.0008
Co	mg/L	0.000059	0.000053	0.000053	0.000193	0.000034
Cu	mg/L	0.0040	< 0.0005	< 0.0005	0.0016	0.0009
Fe	mg/L	0.003	0.002	< 0.002	0.009	0.012
Pb	mg/L	0.00002	0.00003	0.00002	0.00014	0.00009
Li	mg/L	0.003	0.003	0.002	0.002	0.001
Mg	mg/L	7.90	8.20	6.04	3.40	3.64
Mn	mg/L	0.0015	0.0014	0.0013	0.0012	0.0084
Hg	mg/L	0.01	< 0.01	< 0.01	< 0.01	IP
Mo	ug/L	0.00563	0.00297	0.00227	0.00213	0.00225
Ni	mg/L	0.0022	0.0014	0.0011	0.0021	0.0009
P	mg/L	< 0.009	< 0.009	0.014	< 0.009	< 0.009
K	mg/L	10.7	12.0	9.29	7.61	7.84
Se	mg/L	< 0.00004	0.00196	0.00032	0.00085	0.00016
Si	mg/L	2.71	3.79	4.01	4.01	4.46
Ag	mg/L	0.00002	< 0.00001	< 0.00001	0.00002	< 0.00001
Na	mg/L	33.3	35.5	25.9	16.7	18.9
Sr	mg/L	0.268	0.270	0.190	0.110	0.118
S	mg/L	7.41	4.65	3.74	3.80	3.45
Tl	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Sn	mg/L	0.00058	0.00045	0.00131	0.00198	0.00096
Ti	mg/L	0.0002	0.0002	0.0002	0.0002	0.0002
U	mg/L	0.000008	0.000019	0.000002	0.000060	0.000050
V	mg/L	0.00212	0.00260	0.00332	0.00390	0.00390
Zn	mg/L	< 0.001	< 0.001	< 0.001	0.002	< 0.001
Zr	mg/L	0.00002	0.00001	< 0.00001	0.00003	0.00002

Humidity Cell Sample Data

HC - Fine PK 2010

S-Total:	0.04	%
S^{2-}:	0.03	%
NP:	110.00	t $CaCO_3$/1000 t
CaNP:	21	t $CaCO_3$/1000 t
AP:	0.9	t $CaCO_3$/1000 t

Weeks	#	0	1	2	3	4
Date		29-Jul-10	5-Aug-10	12-Aug-10	19-Aug-10	26-Aug-10
Leachate Volume Added (mL)		375	250	250	250	250
Leachate Volume Recovered (mL)		185	210	215	220	215
pH	Effluent (units)	7.87	7.98	7.85	8.06	8.05
ORP	(umhos/cm)	320	395	401	369	326
Cond.	mV	442	344	297	257	236
Acidity	(mg/L)					
Acidity	(mg CaCO3/L)	6.9	3.9	6.1	5.2	3.3
Alkalinity	(mg CaCO3/L)	88.8	81.0	82.6	94.4	98.1
Sulphate	mg/L	137	58	60	41	31
Chloride	mgP/L	27	13	5.9	3.5	4.3
Fluoride	mg/L	0.72	0.80	0.77	0.79	0.82
Hardness	mg/L	166	123	100	77.3	86.9
Al	mg/L	0.0069	0.0040	0.0037	0.0440	0.0187
Sb	mg/L	0.0045	0.0067	0.0072	0.0079	0.0083
As	mg/L	0.0013	0.0021	0.0025	0.0017	0.0014
Ba	mg/L	0.181	0.113	0.0967	0.0930	0.0991
Be	mg/L	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Bi	mg/L	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
B	mg/L	2.14	2.22	1.86	1.98	1.76
Cd	mg/L	0.000021	0.000015	0.000013	< 0.000003	< 0.000003
Ca	mg/L	44.5	32.4	26.3	19.9	21.8
Cr	mg/L	0.0024	0.0016	0.0014	0.0016	0.0011
Co	mg/L	0.000161	0.000094	0.000089	0.000200	0.000105
Cu	mg/L	0.0041	0.0012	0.0010	0.0019	0.0018
Fe	mg/L	0.007	0.003	< 0.002	0.062	0.033
Pb	mg/L	0.00003	0.00002	0.00004	0.00011	0.00005
Li	mg/L	0.009	0.007	0.005	0.006	0.005
Mg	mg/L	13.4	10.1	8.37	6.70	7.91
Mn	mg/L	0.0061	0.0022	0.0018	0.0020	0.0082
Hg	mg/L	0.01	0.01	< 0.01	< 0.01	IP
Mo	ug/L	0.0735	0.06595	0.05209	0.0430	0.04507
Ni	mg/L	0.0052	0.0035	0.0030	0.0050	0.0029
P	mg/L	0.020	0.036	0.024	0.023	0.024
K	mg/L	17.3	16.9	16.1	14.6	14.5
Se	mg/L	0.00073	0.00068	0.00092	0.00088	0.00053
Si	mg/L	7.25	8.39	8.67	8.31	8.81
Ag	mg/L	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Na	mg/L	18.6	15.7	13.5	11.6	12.4
Sr	mg/L	0.502	0.369	0.299	0.232	0.276
S	mg/L	38.4	28.3	20.5	19.0	12.0
Tl	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Sn	mg/L	0.00045	0.00105	0.00040	0.00057	0.00086
Ti	mg/L	0.0005	0.0004	0.0005	0.0016	0.0007
U	mg/L	0.000309	0.000203	0.000156	0.000110	0.000066
V	mg/L	0.00981	0.0114	0.0128	0.0136	0.01360
Zn	mg/L	< 0.001	< 0.001	< 0.001	0.001	< 0.001
Zr	mg/L	0.00005	0.00003	0.00001	0.00011	0.00005

ATTACHMENT 8.II.9

COLUMN CELL SAMPLE DATA

Column Cell Sample Data

Column 1 - Granite
04-ARD-145-003
04-ARD-145-004
04-ARD-145-005
04-ARD-145-006
04-ARD-145-007
04-ARD-145-008
04-ARD-145-009
04-ARD-145-010
04-ARD-145-011
04-ARD-145-012

Date		31-Jan-05	7-Feb-05	14-Feb-05	21-Feb-05	28-Feb-05	7-Mar-05	14-Mar-05	21-Mar-05	28-Mar-05	4-Apr-05	11-Apr-05	18-Apr-05	25-Apr-05	2-May-05	9-May-05	16-May-05	23-May-05	30-May-05	6-Jun-05	13-Jun-05	20-Jun-05	27-Jun-05	4-Jul-05	11-Jul-05	18-Jul-05	25-Jul-05	1-Aug-05	8-Aug-05	15-Aug-05	22-Aug-05	29-Aug-05	5-Sep-05	12-Sep-05	19-Sep-05	26-Sep-05	3-Oct-05	10-Oct-05
Weeks		0	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	27	28	29	30	31	32	33	34	35	36
Volume (ml)	Input	450	250	250	150	150	150	150	150	150	150	150	150	150	150	200	200	200	200	200	250	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	Output	345		455		260		255		265		270		255		250		340		335		410		365		370		380		370		340		350		325		355
pH		7.25		7.45		7.33		7.28		7.38		7.34		7.50		7.35		7.61		7.69		7.10		7.00		7.21		7.20		7.10		6.40		6.92		7.54		7.74
Cond.	(umhos/cm)	193		116		117		111		93		93		74		73		63		58		51		54		57		60		51		40		58		56		49
ORP	mV	100		125		130		145		160		130		145		135		150		160		185		190		140		170		155		150		120		180		125
Sulphate	(mg/L)	1		9		6		7		8		5		4		5		4		5		3		4		5		3		5		3		5		4		4
Acidity	(mg CaCO3/L)	4		3		2		3		2		3		2		4		2		4		3		4		3		3		5		8		3		2		1
Alkalinity	(mg CaCO3/L)	33		35		45		44		36		27		23		22		20		20		18		18		20		15		17		14		18		20		
TDS	(mg/L)	124		74		31		79		67		137		19		184		58		45		39		41		39		40		50		31				51		
Cl	(mg/L)	0.32		3.46		1.56		1.13		0.67		0.62		0.65		0.82		0.77		0.76		0.63		0.65		0.67		0.63		0.62		0.37				0.48		
Al	mg/L	0.039		0.047		0.042		0.053		0.063		0.05		0.09		0.078		0.049		0.064		0.062		0.039		0.041		0.044		0.054		0.054				0.066		
Sb	mg/L	0.006		0.004		0.005		0.005		0.004		0.004		0.004		0.003		0.003		0.003		0.002		0.002		0.002		0.002		0.001		0.001				0.001		
As	mg/L	0.004		0.002		0.003		0.003		0.002		0.003		0.002		0.002		0.002		0.005		0.002		0.001		0.001		0.001		< 0.001		0.001				< 0.001		
Ba	mg/L	0.033		0.028		0.021		0.023		0.017		0.014		0.014		0.012		0.01		0.01		0.007		0.007		0.008		0.008		0.007		0.006				0.007		
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
B	mg/L	0.09		0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		<0.05		<0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05		
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		<0.0002		<0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002		
Ca	mg/L	12.7		8.82		9.67		10.6		9.29		8.49		6.8		6.37		5.22		5.78		4.66		5.12		5.33		5.48		4.75		3.5				5.08		
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Cu	mg/L	0.003		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.23		0.11		<0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05		
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Li	mg/L	0.019		0.011		0.009		0.01		0.007		0.008		0.006		0.005		0.004		0.003		0.003		0.002		0.002		0.002		0.001		0.002				0.002		
Mg	mg/L	3.9		2.49		2.8		3.09		2.6		2.46		2.24		1.91		1.7		1.6		1.5		1.44		1.64		1.72		1.61		1.14				1.76		
Mn	mg/L	0.084		0.3		0.36		0.35		0.27		0.22		0.18		0.14		0.1		0.005		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		<0.02		<0.02		< 0.02		< 0.02		< 0.02		< 0.02				< 0.02		
Mo	mg/L	0.035		0.016		0.014		0.013		0.0069		0.0055		0.0041		0.0032		0.0025		0.0023		0.0015		0.0021		0.0027		0.0029		0.0027		0.0019				0.0028		
Ni	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		<0.15		<0.15		< 0.15		< 0.15		< 0.15		< 0.15				< 0.15		
K	mg/L	16		7.9		6		5.9		5.1		4.1		3.2		3		2.5		3.1		2.4		2.2		2.1		2.1		1.7		1.6				1.8		
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.014		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
SiO2	mg/L	7.9		6.6		8		10.5		11		12.2		12.4		11.4		10.3		11.2		10.7		8.1		7.9		8.4		6.3		5.1				8.3		
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		<0.00025		<0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025		
Na	mg/L	14.9		5.37		3.41		3.08		2.13		1.79		1.48		1.24		0.98		1.09		0.77		0.62		0.61		0.62		< 0.05		0.38				0.4		
Sr	mg/L	0.11		0.078		0.081		0.085		0.07		0.068		0.055		0.049		0.043		0.044		0.037		0.039		0.04		0.041		0.035		0.025				0.037		
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		<0.0001		<0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001		
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005		
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
U	mg/L	< 0.0005		0.0006		0.0012		0.0019		0.0014		0.0006		< 0.0005		< 0.0005		< 0.0005		0.001		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005		
V	mg/L	0.005		0.003		0.003		0.004		0.005		0.004		0.004		0.004		0.005		0.004		0.004		0.003		0.003		0.003		0.003		0.002				0.002		
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		<0.005		<0.005		< 0.005		0.017		< 0.005		< 0.005				< 0.005		
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		<0.01		<0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01		

Column Cell Sample Data

Column 2 - Granite
04-ARD-122-022
04-ARD-122-023
04-ARD-122-024
04-ARD-122-025
04-ARD-124-009
04-ARD-124-010
04-ARD-124-011
04-ARD-124-012
04-ARD-124-013
04-ARD-139-036

Date		31-Jan-05	7-Feb-05	14-Feb-05	21-Feb-05	28-Feb-05	7-Mar-05	14-Mar-05	21-Mar-05	28-Mar-05	4-Apr-05	11-Apr-05	18-Apr-05	25-Apr-05	2-May-05	9-May-05	16-May-05	23-May-05	30-May-05	6-Jun-05	13-Jun-05	20-Jun-05	27-Jun-05	4-Jul-05	11-Jul-05	18-Jul-05	25-Jul-05	1-Aug-05	8-Aug-05	15-Aug-05	22-Aug-05	29-Aug-05	5-Sep-05	12-Sep-05	19-Sep-05	26-Sep-05	3-Oct-05	10-Oct-05	17-Oct-05	24-Oct-05	31-Oct-05
Weeks		0	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	27	28	29	30	31	32	33	34	35	36	37	38	39
Volume (ml)	Input	450	250	250	150	150	150	150	150	150	150	150	150	150	150	200	200	200	200	200	250	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	Output	340		450		270		250		265		240		260		260		350		350		400		345		360		340		370		390		300		305		385			
pH		7.52		7.84		7.95		7.96		7.74		7.93		7.89		8.02		7.76		7.96		7.49		7.70		7.51		7.63		7.53		7.10		7.97		8.16		8.12			
Cond.	(umhos/cm)	500		200		218		231		174		173		164		167		151		144		140		145		146		141		149		121		175		163		150			
ORP	mV	110		120		130		115		160		130		150		150		170		160		170		175		140		170		160		160		125		205		120			
Sulphate	(mg/L)	107		25		24		30		19		18		16		16		13		12		11		12		15		14		15		9		14		14		10			
Acidity	(mg CaCO3/L)	3		2		1		2		3		2		2		1		2		1		5		2		4		4		9		11		2		<1		1			
Alkalinity	(mg CaCO3/L)	58		63		62		65		69		66		63		59		59		60		54		53		57		60		54		48		60		62					
TDS	(mg/L)	324		130		52		169		111		291		83		98		102		99		88		95		92		81		99		79				80					
Cl	(mg/L)	43.6		3.30		1.80		1.33		0.80		0.74		0.61		0.89		0.81		0.83		0.74		0.73		0.76		0.80		0.69		0.38				0.57					
Al	mg/L	0.045		0.072		0.041		0.06		0.17		0.055		0.069		0.052		0.057		0.045		0.072		0.055		0.067		0.055		0.073		0.09				0.059					
Sb	mg/L	0.013		0.029		0.026		0.023		0.02		0.017		0.014		0.012		0.011		0.009		0.007		0.007		0.008		0.008		0.007		0.005				0.007					
As	mg/L	0.005		0.004		0.004		0.004		0.005		0.006		0.006		0.006		0.006		0.01		0.006		0.005		0.005		0.005		0.004		0.005				0.004					
Ba	mg/L	0.059		0.077		0.083		0.076		0.065		0.055		0.058		0.056		0.053		0.057		0.042		0.043		0.048		0.044		0.038		0.032				0.043					
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001					
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001					
B	mg/L	0.27		0.17		0.12		0.1		0.07		0.06		0.05		< 0.05		< 0.05		<0.05		<0.05		<0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05					
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		<0.0002		<0.0002		<0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002					
Ca	mg/L	33.1		16.5		20.1		21.7		20.5		18.8		17.1		17		16.6		18.7		16.7		17.8		19.6		18.1		18.1		14.3				20.5					
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001					
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001					
Cu	mg/L	0.008		0.001		< 0.001		0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001					
Fe	mg/L	< 0.05		< 0.05		< 0.05		0.07		0.11		< 0.05		< 0.05		< 0.05		< 0.05		0.1		0.11		<0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05					
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001					
Li	mg/L	0.031		0.021		0.019		0.021		0.018		0.017		0.014		0.012		0.012		0.01		0.008		0.008		0.008		0.008		0.008		0.005				0.007					
Mg	mg/L	9.6		4.56		5.88		6.36		5.79		5.45		5.15		4.86		4.66		4.42		4.38		4.08		4.36		4.04		4.11		2.91				4.45					
Mn	mg/L	0.061		0.17		0.21		0.21		0.17		0.13		0.11		0.081		0.001		0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001					
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		<0.02		<0.02		< 0.02		< 0.02		< 0.02		< 0.02				< 0.02					
Mo	mg/L	0.035		0.022		0.015		0.012		0.0076		0.0059		0.004		0.0035		0.0031		0.0036		0.0036		0.0048		0.0059		0.0046		0.0049		0.0031				0.0053					
Ni	mg/L	0.007		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001					
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		<0.15		<0.15		< 0.15		< 0.15		< 0.15		< 0.15				< 0.15					
K	mg/L	16.5		11.6		9.8		9		8.4		7		6		5.7		5.2		5.8		4.6		4.3		4.3		3.9		3.6		3.1				3.5					
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.016		<0.001		<0.001		< 0.001		< 0.001		< 0.001		0.001				< 0.001					
SiO2	mg/L	9.5		9.6		10.5		12.5		13.8		14.7		13.4		13.3		13.6		13.7		14.7		11.1		11.4		11.3		9.8		8.2				11.4					
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		<0.00025		<0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025					
Na	mg/L	34.7		12.9		7.96		6.5		4.81		3.47		2.79		2.27		1.8		1.71		1.3		1.07		1.08		1.04		0.24		0.62				0.78					
Sr	mg/L	0.4		0.21		0.26		0.27		0.25		0.23		0.21		0.21		0.2		0.21		0.19		0.19		0.21		0.19		0.18		0.13				0.19					
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001					
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		0.0016		< 0.0001		< 0.0001		< 0.0001		< 0.0001		<0.0001		<0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001					
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005					
Sn	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001					
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		0.006		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001					
U	mg/L	0.0046		0.0055		0.015		0.021		0.031		0.03		0.027		0.025		0.028		0.025		0.02		0.019		0.018		0.016		0.016		0.0077				0.014					
V	mg/L	0.029		0.026		0.023		0.025		0.032		0.034		0.032		0.032		0.039		0.034		0.032		0.029		0.031		0.027		0.025		0.024				0.021					
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		<0.005		<0.005		< 0.005		0.013		< 0.005		< 0.005				< 0.005					
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		<0.01		<0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01					

Column Cell Sample Data

Column 3 - Granite
04-ARD-142-042
04-ARD-200-035
04-ARD-142-009
04-ARD-120-047

Date		31-Jan-05	7-Feb-05	14-Feb-05	21-Feb-05	28-Feb-05	7-Mar-05	14-Mar-05	21-Mar-05	28-Mar-05	4-Apr-05	11-Apr-05	18-Apr-05	25-Apr-05	2-May-05	9-May-05	16-May-05	23-May-05	30-May-05	6-Jun-05	13-Jun-05	20-Jun-05	27-Jun-05	4-Jul-05	11-Jul-05	18-Jul-05	25-Jul-05	1-Aug-05	8-Aug-05	15-Aug-05	22-Aug-05	29-Aug-05	5-Sep-05	12-Sep-05	19-Sep-05	26-Sep-05	3-Oct-05	10-Oct-05	17-Oct-05	24-Oct-05	31-Oct-05	7-Nov-05	14-Nov-05	21-Nov-05
Weeks		0	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	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
Volume (ml)	Input	450	250	250	150	150	150	150	150	150	150	150	150	150	150	200	200	200	200	200	250	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	Output	360		420		270		255		270		210		270		255		340		340		375		345		175		320		400		375		310		365		325						
pH		7.23		7.32		7.39		7.48		7.65		7.47		7.40		7.57		7.50		7.57		7.40		7.80		7.36		7.45		7.57		7.29		7.75		8.10		8.10						
Cond.	(umhos/cm)	1473		936		726		724		599		519		475		414		358		305		305		295		259		258		257		207		275		248		247						
ORP	mV	130		135		150		140		155		150		135		150		180		155		160		165		140		150		145		170		140		230		130						
Sulphate	(mg/L)	6		1		1		1		1		1		1		2		2		2		2		3		3		3		6		3		3		3		3						
Acidity	(mg CaCO3/L)	5		4		3		3		4		4		2		4		4		1		5		4		6		8		8		9		3		1		1						
Alkalinity	(mg CaCO3/L)	23		16		14		14		15		16		16		17		22		25		30		32		35		40		43		46		49		50								
TDS	(mg/L)	771		272		373		446		244		484		385		211		209		203		194		139		188		94		154		112				120								
Cl	(mg/L)	393		262		184		191		148		132		105		108		83.7		71		63.2		55.6		61.5		53.1		38.4		25.3				33.4								
Al	mg/L	0.031		< 0.005		0.008		0.024		0.006		0.011		0.024		0.012		0.023		0.011		0.012		<0.005		0.01		< 0.005		0.019		< 0.005				0.006								
Sb	mg/L	0.003		0.004		0.003		0.003		0.003		0.003		0.003		0.003		0.003		0.003		0.003		0.003		0.003		0.003		0.002		0.002				0.002								
As	mg/L	0.003		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		0.004		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001								
Ba	mg/L	0.42		1.07		0.89		1.04		0.86		0.77		0.65		0.63		0.53		0.49		0.39		0.36		0.41		0.4		0.29		0.26				0.34								
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001								
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001								
B	mg/L	1.99		2.21		2.21		2.5		2.64		2.84		2.68		2.5		2.25		2.14		2.22		1.93		1.92		2.01		1.78		1.29				1.85								
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		<0.0002		<0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002								
Ca	mg/L	87.7		79.2		57.2		62.1		56		47		33.4		30.1		24.8		22.9		18.6		17.6		18.1		16.4		14.1		12.3				14.1								
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001								
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001								
Cu	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001								
Fe	mg/L	0.56		0.14		< 0.05		< 0.05		< 0.05		0.11		< 0.05		< 0.05		< 0.05		0.05		0.1		<0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05								
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001								
Li	mg/L	0.027		0.014		0.008		0.009		0.009		0.01		0.008		0.007		0.008		0.007		0.006		0.006		0.006		0.006		0.005		0.004				0.005								
Mg	mg/L	25.2		13.8		7.3		5.88		4.99		4.45		3.87		4.01		4.14		3.94		4.31		3.9		4.38		4.31		4.26		3.34				4.62								
Mn	mg/L	0.019		0.012		0.002		0.003		0.002		0.021		< 0.001		< 0.001		0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001								
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		<0.02		<0.02		< 0.02		< 0.02		< 0.02		< 0.02				< 0.02								
Mo	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		0.0006		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005								
Ni	mg/L	0.006		0.002		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001								
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		<0.15		<0.15		< 0.15		< 0.15		< 0.15		< 0.15				< 0.15								
K	mg/L	61.9		69.2		51.4		58.7		56.4		49.5		39		42.1		37.3		39.3		34.6		32.2		34.8		31.7		29.6		24				28.6								
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.017		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001								
SiO2	mg/L	5.5		6.1		4.7		5.6		6		6.3		5.8		6.7		8.7		9.2		11.3		9.1		9.3		9.9		8.5		7.4				10.9								
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		<0.00025		<0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025								
Na	mg/L	61.3		20.5		7.34		7.56		5.27		4.52		3.28		3.07		2.41		2.28		1.87		1.56		2.1		1.78		0.94		0.88				1.19								
Sr	mg/L	1.6		1.56		1.09		1.14		1.01		0.86		0.62		0.59		0.53		0.49		0.44		0.4		0.45		0.42		0.36		0.32				0.4								
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001								
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		<0.0001		<0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001								
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005								
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001								
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001								
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005								
V	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001								
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		<0.005		<0.005		< 0.005		< 0.005		0.01		< 0.005				< 0.005								
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		<0.01		<0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01								

Column Cell Sample Data

Column 4 - Granite
04-ARD-142-013
04-ARD-142-022
04-ARD-142-023
04-ARD-142-024
04-ARD-142-025
04-ARD-142-026

Date		31-Jan-05	7-Feb-05	14-Feb-05	21-Feb-05	28-Feb-05	7-Mar-05	14-Mar-05	21-Mar-05	28-Mar-05	4-Apr-05	11-Apr-05	18-Apr-05	25-Apr-05	2-May-05	9-May-05	16-May-05	23-May-05	30-May-05	6-Jun-05	13-Jun-05	20-Jun-05	27-Jun-05	4-Jul-05	11-Jul-05	18-Jul-05	25-Jul-05	1-Aug-05	8-Aug-05	15-Aug-05	22-Aug-05	29-Aug-05	5-Sep-05	12-Sep-05	19-Sep-05	26-Sep-05	3-Oct-05	10-Oct-05
Weeks		0	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	27	28	29	30	31	32	33	34	35	36
Volume (ml)	Input	450	250	250	150	150	150	150	150	150	150	150	150	150	150	200	200	200	200	200	250	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	Output	335		430		255		270		250		230		240		255		330		340		375		340		355		330		350		375		340		345		360
pH		7.58		7.95		8.04		8.15		8.05		7.99		8.06		8.03		7.83		7.94		7.71		8.00		7.50		7.35		7.54		7.24		7.94		8.14		8.13
Cond.	(umhos/cm)	193		139		146		157		155		136		138		141		132		123		125		123		122		119		113		92		145		125		123
ORP	mV	90		100		130		140		140		135		130		135		180		145		150		160		130		140		150		150		110		200		135
Sulphate	(mg/L)	7		4		3		3		2		2		2		2		2		2		2		2		2		2		2		1		1		2		1
Acidity	(mg CaCO3/L)	2		2		1		<1		2		2		1		1		2		1		3		2		4		6		7		7		2		<1		<1
Alkalinity	(mg CaCO3/L)	36		50		57		66		66		67		65		61		59		56		52		52		55		58		53		36		61		57		
TDS	(mg/L)	103		80		20		96		94		188		48		174		84		67		73		71		66		52		66		64				70		
Cl	(mg/L)	22.6		6.55		2.11		1.88		1.04		0.82		0.80		0.92		0.87		0.81		0.74		0.73		0.76		0.72		0.70		0.43				0.60		
Al	mg/L	0.017		0.075		0.06		0.17		0.058		0.061		0.095		0.082		0.097		0.099		0.15		0.12		0.14		0.13		0.16		0.25				0.14		
Sb	mg/L	0.004		0.004		0.003		0.004		0.003		0.002		0.002		0.002		0.002		0.002		0.001		0.001		0.001		0.001		< 0.001		< 0.001				< 0.001		
As	mg/L	0.013		0.016		0.008		0.008		0.007		0.007		0.006		0.005		0.005		0.008		0.004		0.003		0.003		0.003		0.003		0.003				0.002		
Ba	mg/L	0.009		0.016		0.016		0.017		0.016		0.014		0.016		0.013		0.015		0.015		0.011		0.011		0.01		0.011		0.008		0.006				0.01		
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
B	mg/L	0.12		0.1		0.07		0.08		< 0.05		0.05		0.06		< 0.05		0.11		0.06		<0.05		<0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05		
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		<0.0002		<0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002		
Ca	mg/L	6.86		11.4		15.4		17.6		18.8		18.1		19.1		17.7		17.7		19.7		18.8		18.7		19.3		19.3		17.4		14				20.4		
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Cu	mg/L	0.002		< 0.001		< 0.001		0.004		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Fe	mg/L	< 0.05		< 0.05		< 0.05		0.11		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.05		0.12		<0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05		
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Li	mg/L	0.01		0.011		0.009		0.01		0.008		0.007		0.007		0.005		0.005		0.004		0.004		0.003		0.003		0.003		0.001		0.002				0.002		
Mg	mg/L	1.93		3.06		4.37		4.75		4.46		4.04		4.19		3.28		2.76		2.36		2.25		1.67		1.67		1.45		1.19		0.77				1.12		
Mn	mg/L	0.015		0.13		0.18		0.19		0.15		0.12		0.098		0.074		0.066		0.043		0.027		0.008		0.002		< 0.001		< 0.001		< 0.001				< 0.001		
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		<0.02		<0.02		<0.02		< 0.02		< 0.02		< 0.02		< 0.02				< 0.02		
Mo	mg/L	0.0044		0.0054		0.0037		0.0045		0.002		0.0016		0.0011		0.0008		0.0009		0.0007		<0.0005		<0.0005		< 0.0005		< 0.0005		0.0007		< 0.0005				0.0012		
Ni	mg/L	0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		<0.15		<0.15		< 0.15		< 0.15		< 0.15		< 0.15				< 0.15		
K	mg/L	10.2		6.7		6		4.8		3.9		3.2		3		2.8		3.5		4		3.2		2.7		2.6		2.4		2.1		1.8				2.2		
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.017		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
SiO2	mg/L	5.7		7.1		8.2		10.1		9.7		9.5		9.5		8.1		8.3		8.5		8.9		6.1		6.3		6.5		5.1		3.9				6.6		
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		<0.00025		<0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025		
Na	mg/L	16.2		9.6		4.58		4.26		2.86		2.14		1.93		1.52		1.26		1.19		0.91		0.66		0.7		0.63		< 0.05		0.37				0.42		
Sr	mg/L	0.079		0.13		0.16		0.17		0.17		0.17		0.18		0.17		0.18		0.17		0.16		0.15		0.14		0.14		0.11		0.078				0.11		
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		<0.0001		<0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001		
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005		
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
U	mg/L	< 0.0005		0.0015		0.0037		0.0056		0.0079		0.0082		0.009		0.0079		0.0092		0.0081		0.0067		0.0061		0.0057		0.0052		0.0056		0.0031				0.004		
V	mg/L	0.005		0.003		0.002		0.003		0.003		0.003		0.003		0.002		0.003		0.003		0.003		0.002		0.003		0.002		0.002		0.002				0.002		
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		0.008		< 0.005		0.007		< 0.005		< 0.005		<0.005		<0.005		< 0.005		< 0.005		0.009		< 0.005				< 0.005		
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		<0.01		<0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01		

Column Cell Sample Data

Column 5 - Kimberlite
04-ARD-203-031
04-ARD-203-032
04-ARD-203-033
04-ARD-203-034
04-ARD-203-035
04-ARD-203-036
04-ARD-203-037

Date		31-Jan-05	7-Feb-05	14-Feb-05	21-Feb-05	28-Feb-05	7-Mar-05	14-Mar-05	21-Mar-05	28-Mar-05	4-Apr-05	11-Apr-05	18-Apr-05	25-Apr-05	2-May-05	9-May-05	16-May-05	23-May-05	30-May-05	6-Jun-05	13-Jun-05	20-Jun-05	27-Jun-05	4-Jul-05	11-Jul-05	18-Jul-05	25-Jul-05	1-Aug-05	8-Aug-05	15-Aug-05	22-Aug-05	29-Aug-05
Weeks		0	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	27	28	29	30
Volume (ml)	Input	450	250	250	150	150	150	150	150	150	150	150	150	150	150	200	200	200	200	200	250	200	200	200	200	200	200	200	200	200	200	200
	Output	305		465		240		255		260		230		265		235		350		355		380		355		370		360		365		350
pH		7.34		8.30		8.46		8.47		8.23		8.19		8.36		8.33		8.31		8.35		8.26		8.40		8.08		7.92		8.03		7.92
Cond.	(umhos/cm)	3320		797		547		616		606		561		524		435		412		362		377		359		336		308		336		298
ORP	mV	130		90		110		140		125		135		130		130		150		120		130		135		110		120		130		140
Sulphate	(mg/L)	1252		218		122		135		97		80		66		63		43		35		29		23		23		22		19		15
Acidity	(mg CaCO3/L)	3		#N/A		#N/A		#N/A		<1		1		#N/A		#N/A		#N/A		#N/A		<1		#N/A		2		6		5		6
Alkalinity	(mg CaCO3/L)	53		123		139		141		137		143		152		150		160		151		157		144		149		147		146		144
TDS	(mg/L)	2767		433		250		369		406		620		271		121		250		215		213		195		185		181		192		184
Cl	(mg/L)	501		14.8		4.71		1.08		0.86		0.68		4.39		1.28		0.89		0.85		0.86		0.72		0.75		0.76		0.71		0.43
Al	mg/L	< 0.005		0.006		0.019		0.01		0.007		< 0.005		0.016		0.021		0.014		0.011		0.015		<0.005		0.009		< 0.005		< 0.005		0.011
Sb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
As	mg/L	0.005		0.002		0.002		0.001		0.001		0.002		0.002		0.001		0.002		0.005		0.002		0.001		0.002		0.002		0.002		0.002
Ba	mg/L	0.057		0.056		0.045		0.053		0.053		0.044		0.043		0.037		0.038		0.039		0.029		0.027		0.03		0.027		0.026		0.025
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	0.36		0.36		0.33		0.32		0.34		0.3		0.32		0.25		0.21		0.2		0.16		0.13		0.1		0.09		0.11		0.08
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		<0.0002		<0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	422		54.2		33.9		38.3		41.1		31.7		28.1		22.2		23.6		22.1		21.4		19.3		21.6		16.7		21.7		19.3
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	0.009		0.002		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	0.003		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		0.15		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.12		<0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.035		0.015		0.012		0.015		0.016		0.016		0.015		0.013		0.015		0.012		0.012		0.012		0.012		0.01		0.013		0.011
Mg	mg/L	148		21.6		14.9		16.8		19.3		16		14.9		12.2		11.6		10.9		10.8		9.73		9.58		8.53		10.5		9.31
Mn	mg/L	0.078		0.007		0.004		0.006		0.003		0.005		0.002		0.001		0.003		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		<0.02		<0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.251		0.13		0.049		0.033		0.024		0.016		0.013		0.011		0.01		0.0088		0.0066		0.0074		0.009		0.0085		0.0091		0.0073
Ni	mg/L	0.087		0.019		0.013		0.016		0.015		0.012		0.011		0.01		0.01		0.008		0.008		0.006		0.007		0.004		0.006		0.005
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		<0.15		<0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	mg/L	28.6		14		11.4		11.4		13.4		11.6		10.6		10.4		10		11.5		10.2		9.8		9.8		8.4		9.7		9.6
Se	mg/L	0.017		0.003		0.002		0.002		< 0.001		< 0.001		0.002		< 0.001		< 0.001		0.018		<0.001		<0.001		< 0.001		0.002		0.002		0.002
SiO2	mg/L	8.9		9.6		8.8		10.3		12		12.1		12.2		11.9		12.6		12.2		13.9		10.8		10.8		9.6		10		9.3
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		<0.00025		<0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	146		63.2		50		53.9		60.5		51.9		50.6		46.5		42.3		40.9		37.6		32.2		28.1		23.1		23.6		20.4
Sr	mg/L	4.64		0.65		0.41		0.47		0.52		0.42		0.37		0.32		0.31		0.28		0.27		0.25		0.26		0.22		0.25		0.25
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		0.0008		< 0.0001		< 0.0001		< 0.0001		< 0.0001		<0.0001		<0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.003		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	0.021		0.021		0.026		0.028		0.036		0.03		0.028		0.027		0.032		0.029		0.025		0.025		0.021		0.018		0.021		0.015
V	mg/L	0.009		0.022		0.023		0.022		0.023		0.022		0.024		0.023		0.031		0.027		0.028		0.027		0.028		0.023		0.025		0.025
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		<0.005		<0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		<0.01		<0.01		< 0.01		< 0.01		< 0.01		< 0.01

Column Cell Sample Data

Column 6 - Granite
04-ARD-203-001
04-ARD-203-002
04-ARD-203-003
04-ARD-203-004
04-ARD-203-005
04-ARD-203-006
04-ARD-203-007
04-ARD-203-008
04-ARD-203-009
04-ARD-203-010

Date		31-Jan-05	7-Feb-05	14-Feb-05	21-Feb-05	28-Feb-05	7-Mar-05	14-Mar-05	21-Mar-05	28-Mar-05	4-Apr-05	11-Apr-05	18-Apr-05	25-Apr-05	2-May-05	9-May-05	16-May-05	23-May-05	30-May-05	6-Jun-05	13-Jun-05	20-Jun-05	27-Jun-05	4-Jul-05	11-Jul-05	18-Jul-05	25-Jul-05	1-Aug-05	8-Aug-05	15-Aug-05	22-Aug-05	29-Aug-05	5-Sep-05	12-Sep-05	19-Sep-05	26-Sep-05	3-Oct-05	10-Oct-05
Weeks		0	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	27	28	29	30	31	32	33	34	35	36
Volume (ml)	Input	450	250	250	150	150	150	150	150	150	150	150	150	150	150	200	200	200	200	200	250	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	Output	320		465		285		240		270		245		260		260		350		363		415		350		400		350		375		380		305		375		340
pH		7.76		7.95		7.93		8.15		8.03		7.98		8.02		8.02		7.88		8.12		7.80		8.00		7.68		7.55		7.61		7.27		7.97		8.17		8.12
Cond.	(umhos/cm)	535		254		187		218		190		160		155		158		144		137		134		129		128		128		128		115		146		128		133
ORP	mV	100		95		110		150		120		125		110		115		150		135		140		145		125		130		145		135		115		205		135
Sulphate	(mg/L)	134		38		21		27		18		14		11		10		8		6		5		4		4		4		3		3		3		3		2
Acidity	(mg CaCO3/L)	1		2		2		1		3		2		2		4		3		1		3		2		4		8		8		9		1		<1		1
Alkalinity	(mg CaCO3/L)	35		53		59		63		67		66		64		66		63		60		58		56		56		59		61		52		61		61		
TDS	(mg/L)	284		121		48		132		66		100		73		88		68		70		77		71		70		68		81		60				191		
Cl	(mg/L)	35.2		6.29		1.38		1.03		0.64		0.58		0.56		0.82		0.74		0.72		0.71		0.69		0.67		0.73		0.62		0.39				0.49		
Al	mg/L	0.025		0.031		0.048		0.056		0.04		0.043		0.067		0.06		0.064		0.064		0.088		0.073		0.088		0.084		0.088		0.11				0.089		
Sb	mg/L	< 0.001		0.001		0.002		0.003		0.002		0.002		0.002		0.002		0.001		0.001		<0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
As	mg/L	0.004		0.004		0.005		0.005		0.007		0.008		0.008		0.008		0.009		0.012		0.009		0.008		0.008		0.008		0.008		0.008				0.007		
Ba	mg/L	0.048		0.036		0.03		0.033		0.029		0.031		0.029		0.027		0.024		0.025		0.021		0.02		0.02		0.02		0.018		0.016				0.02		
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
B	mg/L	0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		<0.05		<0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05		
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		<0.0002		<0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002				< 0.0002		
Ca	mg/L	36.9		21.2		18.2		22		21.3		19.4		19.5		17.8		16.3		19.3		17.4		17.4		17.7		17.3		17.4		15.4				18.7		
Cr	mg/L	0.002		0.002		0.003		0.003		0.003		0.003		0.002		0.002		0.002		0.002		0.001		0.002		0.001		0.001		< 0.001		< 0.001				< 0.001		
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Cu	mg/L	0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.07		0.12		<0.05		< 0.05		< 0.05		< 0.05		< 0.05				< 0.05		
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Li	mg/L	0.02		0.016		0.013		0.019		0.013		0.012		0.009		0.007		0.006		0.005		0.004		0.004		0.004		0.003		0.002		0.003				0.003		
Mg	mg/L	10.2		5.74		5.16		6.51		5.79		5.35		5.52		4.87		4.28		4.12		3.9		3.24		3		2.79		2.76		2.13				2.61		
Mn	mg/L	0.076		0.2		0.22		0.11		0.05		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		<0.02		<0.02		< 0.02		< 0.02		< 0.02		< 0.02				< 0.02		
Mo	mg/L	0.01		0.01		0.0065		0.0069		0.0046		0.0043		0.0035		0.003		0.0025		0.0052		0.0079		0.0099		0.009		0.0081		0.007		0.0054				0.0058		
Ni	mg/L	0.002		0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		<0.15		<0.15		< 0.15		< 0.15		< 0.15		< 0.15				< 0.15		
K	mg/L	21		10.2		7.4		6.9		6.2		5.4		5		4.6		3.7		4.5		3.7		3.2		3		2.9		2.7		2.5				2.6		
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.015		<0.001		<0.001		< 0.001		< 0.001		0.001		0.001				< 0.001		
SiO2	mg/L	7.7		8.5		8.5		11.6		11.1		11.2		11.4		11.7		10.3		11.1		12		8.7		8.5		8.5		7.7		6.2				8.8		
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		<0.00025		<0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025				< 0.00025		
Na	mg/L	23.9		8.43		3.76		3.96		2.89		2.2		1.91		1.58		1.23		1.41		1.02		0.75		0.69		0.67		< 0.05		0.55				0.44		
Sr	mg/L	0.4		0.34		0.3		0.35		0.33		0.3		0.31		0.28		0.26		0.28		0.25		0.25		0.23		0.22		0.21		0.18				0.19		
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		<0.0001		<0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001				< 0.0001		
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005				< 0.0005		
Sn	mg/L	< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001				< 0.001		
U	mg/L	0.0009		0.0019		0.0035		0.0052		0.0061		0.0055		0.0054		0.0047		0.0055		0.0053		0.0044		0.0043		0.0038		0.0033		0.0035		0.0023				0.0025		
V	mg/L	0.004		0.004		0.004		0.005		0.005		0.006		0.006		0.006		0.007		0.007		0.006		0.006		0.006		0.006		0.006		0.006				0.006		
Zn	mg/L	< 0.005		< 0.005		< 0.005		0.007		< 0.005		< 0.005		< 0.005		0.006		< 0.005		< 0.005		<0.005		<0.005		< 0.005		< 0.005		< 0.005		< 0.005				< 0.005		
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		<0.01		<0.01		< 0.01		< 0.01		< 0.01		< 0.01				< 0.01		

Column Cell Sample Data

Column 7 - Granite
04-ARD-122-001
04-ARD-122-002
04-ARD-122-003
04-ARD-122-004
04-ARD-122-005
04-ARD-122-006
04-ARD-122-007
04-ARD-122-008
04-ARD-122-009
04-ARD-122-010

Date		31-Jan-05	7-Feb-05	14-Feb-05	21-Feb-05	28-Feb-05	7-Mar-05	14-Mar-05	21-Mar-05	28-Mar-05	4-Apr-05	11-Apr-05	18-Apr-05	25-Apr-05	2-May-05	9-May-05	16-May-05	23-May-05	30-May-05	6-Jun-05	13-Jun-05	20-Jun-05	27-Jun-05	4-Jul-05	11-Jul-05	18-Jul-05	25-Jul-05	1-Aug-05	8-Aug-05	15-Aug-05	22-Aug-05	29-Aug-05
Weeks		0	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	27	28	29	30
Volume (ml)	Input	450	250	250	150	150	150	150	150	150	150	150	150	150	150	200	200	200	200	200	250	200	200	200	200	200	200	200	200	200	200	200
	Output	330		470		265		265		390		265		260		260		350		355		400		360		385		370		370		360
pH		7.88		8.03		7.99		8.18		8.08		8.01		8.04		7.95		7.90		7.96		7.92		8.00		7.86		7.89		7.78		7.36
Cond.	(umhos/cm)	1043		593		416		388		303		285		319		327		344		328		346		365		300		238		235		217
ORP	mV	100		100		100		140		115		120		115		120		170		140		140		140		115		130		130		130
Sulphate	(mg/L)	308		134		100		80		55		39		37		35		27		23		20		17		17		17		15		13
Acidity	(mg CaCO3/L)	5		2		2		1		3		3		3		4		6		3		7		3		7		8		10		17
Alkalinity	(mg CaCO3/L)	64		65		63		62		71		75		68		68		62		59		63		61		75		79		80		79
TDS	(mg/L)	670		341		217		250		186		170		212		171		246		235		236		213		167		175		154		172
Cl	(mg/L)	98.3		35.3		16.5		12.0		6.56		3.94		5.82		7.58		4.80		4.16		1.94		1.78		1.71		1.67		1.54		1.1
Al	mg/L	< 0.005		< 0.005		0.029		0.028		< 0.005		0.83		0.011		0.008		0.009		< 0.005		0.006		<0.005		< 0.005		< 0.005		< 0.005		< 0.005
Sb	mg/L	0.002		0.003		0.003		0.003		0.003		0.003		0.003		0.002		0.002		0.003		0.002		0.002		0.002		0.002		0.002		0.002
As	mg/L	0.013		0.017		0.022		0.02		0.028		0.032		0.033		0.028		0.029		0.035		0.03		0.03		0.033		0.036		0.038		0.041
Ba	mg/L	0.088		0.093		0.09		0.072		0.066		0.07		0.09		0.11		0.12		0.15		0.13		0.14		0.13		0.12		0.11		0.12
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	4.76		8.08		9.94		9.07		8.41		7.59		8.18		8.32		6.79		6.39		8.06		7.6		5.68		7.69		7.92		7.1
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		<0.0002		<0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	74.4		35.1		25.1		18.6		16		13.2		14.2		15.7		16.9		18.8		17.4		18		15.3		12.1		12		11.5
Cr	mg/L	< 0.001		0.001		0.001		0.001		< 0.001		0.002		< 0.001		< 0.001		0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.002		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		0.11		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.11		<0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.003		0.002		0.001		0.001		< 0.001		< 0.001		0.001		0.001		0.001		0.001		0.001		0.001		0.001		< 0.001		< 0.001		0.001
Mg	mg/L	42.7		18.9		14.3		11.1		8.98		7.84		9.03		9.43		10.3		11		11.2		10.4		9.06		7.27		7.31		6.78
Mn	mg/L	0.004		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		<0.02		<0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.044		0.029		0.023		0.016		0.01		0.0066		0.0054		0.0043		0.004		0.0035		0.0022		0.002		0.0019		0.0019		0.0017		0.0014
Ni	mg/L	0.012		0.006		0.004		0.003		0.002		0.001		0.001		0.001		0.002		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		<0.15		<0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	mg/L	22.6		19.3		17.1		14.5		14.1		12.3		13		14.2		15.5		19.7		19.1		19.5		18.8		17.3		18.4		18.7
Se	mg/L	< 0.001		0.001		0.003		0.002		< 0.001		< 0.001		0.001		< 0.001		< 0.001		0.018		<0.001		<0.001		< 0.001		0.002		0.001		0.002
SiO2	mg/L	9.5		9.6		10.7		9.9		10.6		10.9		12.1		12		12.2		12.8		15.3		11.8		11.9		11.6		11		11.2
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		<0.00025		<0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	45.2		31.7		28.1		23		21.1		19.3		20.7		20.8		19.2		19.7		17.9		15		11.9		9.35		7.94		7.3
Sr	mg/L	0.81		0.38		0.28		0.2		0.16		0.14		0.16		0.18		0.2		0.21		0.19		0.2		0.17		0.14		0.13		0.12
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		<0.0001		<0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
V	mg/L	0.01		0.021		0.025		0.022		0.027		0.027		0.025		0.021		0.024		0.021		0.022		0.021		0.025		0.025		0.026		0.026
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		0.009		< 0.005		< 0.005		<0.005		<0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		<0.01		<0.01		< 0.01		< 0.01		< 0.01		< 0.01

Column Cell Sample Data

Column 8 - Granite
04-ARD-121-026
04-ARD-121-027
04-ARD-121-028
04-ARD-121-029
04-ARD-121-030
04-ARD-121-031
04-ARD-121-032
04-ARD-121-033
04-ARD-121-034
04-ARD-121-035

Date		31-Jan-05	7-Feb-05	14-Feb-05	21-Feb-05	28-Feb-05	7-Mar-05	14-Mar-05	21-Mar-05	28-Mar-05	4-Apr-05	11-Apr-05	18-Apr-05	25-Apr-05	2-May-05	9-May-05	16-May-05	23-May-05	30-May-05	6-Jun-05	13-Jun-05	20-Jun-05	27-Jun-05	4-Jul-05	11-Jul-05	18-Jul-05	25-Jul-05	1-Aug-05	8-Aug-05	15-Aug-05	22-Aug-05	29-Aug-05
Weeks		0	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	27	28	29	30
Volume (ml)	Input	450	250	250	150	150	150	150	150	150	150	150	150	150	150	200	200	200	200	200	250	200	200	200	200	200	200	200	200	200	200	200
	Output	295		440		270		250		260		215		265		255		350		330		365		370		335		380		355		355
pH		7.81		7.82		7.94		8.00		7.96		7.92		8.06		8.12		8.05		8.17		8.07		8.20		7.96		7.80		7.90		7.72
Cond.	(umhos/cm)	3020		1422		724		674		446		582		466		355		300		275		282		296		287		264		261		240
ORP	mV	105		105		110		140		115		120		110		110		150		130		130		130		110		115		130		150
Sulphate	(mg/L)	1647		617		310		232		127		78		64		59		32		25		19		16		15		14		12		10
Acidity	(mg CaCO3/L)	4		2		1		1		2		3		1		<1		1		4		1		1		3		6		5		8
Alkalinity	(mg CaCO3/L)	84		44		46		46		63		83		85		90		89		90		92		89		94		99		100		100
TDS	(mg/L)	2778		932		426		424		277		322		274		119		181		162		155		154		138		158		161		176
Cl	(mg/L)	115		2.57		1.79		0.55		0.45		3.59		0.50		0.75		0.41		1.74		0.60		0.59		1.45		0.90		0.57		0.39
Al	mg/L	< 0.005		< 0.005		0.009		0.011		0.006		0.012		0.015		0.022		0.025		0.022		0.037		0.035		0.033		0.025		0.033		0.06
Sb	mg/L	0.001		0.002		0.002		0.002		0.002		0.002		0.002		0.002		0.002		0.003		0.002		0.002		0.002		0.002		0.002		0.002
As	mg/L	0.003		0.002		0.002		0.002		0.003		0.003		0.003		0.004		0.006		0.012		0.008		0.009		0.01		0.009		0.011		0.012
Ba	mg/L	0.034		0.017		0.008		0.009		0.006		0.009		0.007		0.006		0.005		0.006		0.004		0.004		0.005		0.004		0.004		0.004
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	0.6		0.69		0.62		0.7		0.73		0.74		0.81		0.66		0.78		0.61		0.42		0.33		0.32		0.27		0.3		0.23
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		<0.0002		<0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	334		104		33.5		28.3		15.7		22.4		14.3		10.2		7.92		8.21		6.82		6.84		6.95		5.86		6.25		5.86
Cr	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		0.2		0.06		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.06		0.11		<0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.004		0.002		< 0.001		0.001		< 0.001		0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Mg	mg/L	115		35.5		12.5		10.7		5.97		8.74		6.07		4.18		3.24		3.15		3.07		2.74		2.86		2.40		2.64		2.44
Mn	mg/L	0.021		0.009		0.005		0.004		0.001		0.009		0.002		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		<0.02		<0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	2.18		1.07		0.536		0.550		0.340		0.287		0.220		0.201		0.165		0.167		0.120		0.120		0.131		0.109		0.124		0.116
Ni	mg/L	0.019		0.014		0.005		0.004		0.002		0.003		0.002		0.002		0.001		0.001		0.001		0.001		0.001		< 0.001		< 0.001		0.002
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		<0.15		<0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	mg/L	18.2		11.8		6.6		6.8		5.3		6.2		4.7		4.4		3.8		4.9		4.0		3.8		3.8		3.3		3.6		3.6
Se	mg/L	0.019		0.004		0.002		0.003		< 0.001		< 0.001		0.002		< 0.001		< 0.001		0.018		0.004		<0.001		< 0.001		0.002		< 0.001		0.002
SiO2	mg/L	9.4		9.8		7.9		10.2		10.7		12.2		13.3		13.6		13.7		15.1		17.5		13.6		14.3		12.5		13.2		13.2
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		<0.00025		<0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	242		138		79.8		81		63.2		76.5		64.2		54.9		45.8		49.2		45.5		41.7		42.3		37.2		41.1		37.7
Sr	mg/L	5.2		1.60		0.52		0.43		0.24		0.35		0.22		0.15		0.13		0.12		0.10		0.10		0.10		0.09		0.094		0.084
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		<0.0001		<0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	0.0071		0.0014		0.0008		0.0007		0.0008		0.0009		0.0009		0.0008		0.0008		0.0008		0.0008		0.0008		0.0008		0.0007		0.001		0.0007
V	mg/L	0.038		0.084		0.098		0.12		0.17		0.13		0.16		0.2		0.25		0.26		0.28		0.27		0.30		0.25		0.31		0.31
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		<0.005		<0.005		< 0.005		< 0.005		< 0.005		0.006
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		<0.01		<0.01		< 0.01		< 0.01		< 0.01		< 0.01

Column Cell Sample Data

Column 9 - Granite
MPV-04-234C BOX 45 MPV-04-234C BOX 47 MPV-04-234C BOX 49 MPV-04-234C BOX 51 MPV-04-234C BOX 53

Date		31-Jan-05	7-Feb-05	14-Feb-05	21-Feb-05	28-Feb-05	7-Mar-05	14-Mar-05	21-Mar-05	28-Mar-05	4-Apr-05	11-Apr-05	18-Apr-05	25-Apr-05	2-May-05	9-May-05	16-May-05	23-May-05	30-May-05	6-Jun-05	13-Jun-05	20-Jun-05	27-Jun-05	4-Jul-05	11-Jul-05	18-Jul-05	25-Jul-05	1-Aug-05	8-Aug-05	15-Aug-05	22-Aug-05	29-Aug-05
Weeks		0	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	27	28	29	30
Volume (ml)	Input	450	250	250	150	150	150	150	150	150	150	150	150	150	150	200	200	200	200	200	250	200	200	200	200	200	200	200	200	200	200	200
	Output	335		465		265		255		270		260		260		210		390		335		390		365		375		370		370		375
pH		8.17		8.19		8.20		8.30		8.14		7.95		8.24		8.08		8.09		8.10		8.06		8.20		7.99		7.97		7.82		7.62
Cond.	(umhos/cm)	1101		490		349		316		284		277		282		266		241		223		233		251		236		208		196		192
ORP	mV	90		95		100		140		100		100		100		100		150		125		130		130		125		120		130		150
Sulphate	(mg/L)	273		125		72		56		45		34		32		34		25		23		20		18		17		17		15		12
Acidity	(mg CaCO3/L)	2		2		2		#N/A		3		15		1		6		6		2		16		3		8		7		13		20
Alkalinity	(mg CaCO3/L)	66		62		70		75		83		83		82		80		79		80		75		72		75		80		77		73
TDS	(mg/L)	756		231		134		243		148		188		239		134		189		166		158		157		139		146		157		168
Cl	(mg/L)	119		4.26		2.21		1.61		1.00		0.93		1.25		1.04		1.10		1.09		0.94		0.91		0.89		0.88		0.81		0.56
Al	mg/L	< 0.005		< 0.005		0.008		0.01		< 0.005		0.02		0.011		0.009		0.012		< 0.005		0.009		<0.005		< 0.005		< 0.005		< 0.005		< 0.005
Sb	mg/L	0.004		0.007		0.006		0.006		0.006		0.006		0.006		0.006		0.006		0.006		0.005		0.005		0.005		0.005		0.005		0.004
As	mg/L	0.016		0.032		0.044		0.048		0.063		0.071		0.084		0.087		0.1		0.12		0.11		0.11		0.11		0.11		0.1		0.1
Ba	mg/L	0.076		0.051		0.046		0.039		0.042		0.039		0.046		0.049		0.05		0.057		0.051		0.051		0.057		0.062		0.051		0.058
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	15.5		15		19.1		21.6		20.8		17		18.1		17.6		13.9		12.7		15.5		14		9.45		12		11.1		9.21
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		0.0008		< 0.0002		<0.0002		<0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	78		24.1		14		10.3		9.6		8.03		7.8		7.34		6.72		6.87		6.05		6.03		5.92		5.64		5.18		5.08
Cr	mg/L	< 0.001		0.002		0.003		0.005		0.004		0.004		0.004		0.003		0.004		0.003		0.002		0.002		0.003		0.003		0.002		0.002
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.1		<0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Mg	mg/L	17.4		4.76		2.94		2.31		2.06		1.88		1.93		1.75		1.7		1.52		1.59		1.36		1.39		1.34		1.25		1.14
Mn	mg/L	0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		<0.02		<0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.043		0.027		0.012		0.009		0.0045		0.0028		0.0027		0.0023		0.0016		0.0026		0.0011		0.0009		0.001		0.001		0.0008		0.0007
Ni	mg/L	0.002		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		<0.15		<0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	mg/L	35.6		23.6		17.7		15.8		16.1		14.7		14		13.7		13		14.7		13.3		12.5		12.4		12		11.4		11.3
Se	mg/L	0.016		0.004		0.003		0.005		0.004		0.003		0.003		< 0.001		< 0.001		0.021		<0.001		<0.001		< 0.001		< 0.001		< 0.001		0.002
SiO2	mg/L	15.9		14.9		15.3		15.8		16.5		18.3		18.3		17.9		18.5		19.1		23.3		18.7		18.7		18.7		16.6		16.4
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		<0.00025		<0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	80.2		47.7		37.8		33.2		32.7		31.1		32.9		30.4		27.4		29.2		28		25.4		24.5		24.4		22.7		21.6
Sr	mg/L	1.25		0.38		0.21		0.16		0.14		0.13		0.12		0.11		0.11		0.11		0.097		0.095		0.093		0.091		0.082		0.077
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		<0.0001		<0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
V	mg/L	0.013		0.034		0.044		0.049		0.06		0.063		0.067		0.063		0.079		0.076		0.082		0.078		0.092		0.087		0.083		0.081
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		<0.005		<0.005		< 0.005		< 0.005		< 0.005		< 0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		<0.01		<0.01		< 0.01		< 0.01		< 0.01		< 0.01

Column Cell Sample Data

Column 10 - Granite
MPV-04-234C BOX 62 MPV-04-234C BOX 64 MPV-04-234C BOX 66 MPV-04-234C BOX 68

Date		31-Jan-05	7-Feb-05	14-Feb-05	21-Feb-05	28-Feb-05	7-Mar-05	14-Mar-05	21-Mar-05	28-Mar-05	4-Apr-05	11-Apr-05	18-Apr-05	25-Apr-05	2-May-05	9-May-05	16-May-05	23-May-05	30-May-05	6-Jun-05	13-Jun-05	20-Jun-05	27-Jun-05	4-Jul-05	11-Jul-05	18-Jul-05	25-Jul-05	1-Aug-05	8-Aug-05	15-Aug-05	22-Aug-05	29-Aug-05
Weeks		0	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	27	28	29	30
Volume (ml)	Input	450	250	250	150	150	150	150	150	150	150	150	150	150	150	200	200	200	200	200	250	200	200	200	200	200	200	200	200	200	200	200
	Output	360		470		285		270		260		255		260		270		365		350		410		370		385		390		315		435
pH		8.85		8.69		8.38		8.48		8.32		8.31		8.43		8.58		8.44		8.67		8.64		8.70		8.49		8.39		7.97		8.26
Cond.	(umhos/cm)	1515		986		806		814		656		549		500		420		374		325		323		312		286		246		250		218
ORP	mV	60		80		100		130		100		100		100		95		130		110		105		110		100		110		130		130
Sulphate	(mg/L)	3		3		4		4		5		6		5		5		5		5		5		4		4		4		6		3
Acidity	(mg CaCO3/L)	#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		4		1
Alkalinity	(mg CaCO3/L)	50		68		83		81		92		94		101		104		100		100		100		94		105		95		41		83
TDS	(mg/L)	772		483		316		403		324		265		279		155		205		180		174		162		150		121		156		142
Cl	(mg/L)	432		237		171		172		118		45.2		60.3		60.2		40.3		31.6		24.6		21.0		18.7		16.4		14.4		10.4
Al	mg/L	0.009		0.009		0.009		0.022		0.008		0.013		0.012		0.009		0.019		0.009		0.015		0.008		< 0.005		0.006		0.007		0.007
Sb	mg/L	0.006		0.01		0.009		0.009		0.009		0.009		0.008		0.007		0.007		0.006		0.005		0.004		0.004		0.004		0.003		0.003
As	mg/L	0.002		0.001		0.001		0.001		0.001		0.002		0.001		0.002		0.002		0.005		0.002		0.001		0.001		0.001		0.001		0.001
Ba	mg/L	0.38		0.35		0.31		0.33		0.25		0.21		0.2		0.2		0.19		0.21		0.2		0.2		0.24		0.26		0.26		0.29
Be	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Bi	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
B	mg/L	0.11		0.08		0.09		0.12		0.13		0.11		0.12		0.06		0.52		0.32		0.06		0.09		0.08		0.08		0.08		< 0.05
Cd	mg/L	< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002		<0.0002		<0.0002		< 0.0002		< 0.0002		< 0.0002		< 0.0002
Ca	mg/L	3.92		2.7		6.63		3.75		2.95		3.02		3.35		2.79		3.83		1.9		2.21		2.16		2.59		2.37		3		2.44
Cr	mg/L	0.001		0.001		0.001		0.001		< 0.001		0.001		< 0.001		< 0.001		0.001		0.001		0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Co	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Cu	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Fe	mg/L	< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		0.09		<0.05		< 0.05		< 0.05		< 0.05		< 0.05
Pb	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Li	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Mg	mg/L	0.18		0.06		0.13		0.06		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		< 0.05		<0.05		<0.05		< 0.05		< 0.05		< 0.05		< 0.05
Mn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Hg	ug/L	< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		< 0.02		<0.02		<0.02		< 0.02		< 0.02		< 0.02		< 0.02
Mo	mg/L	0.001		0.0005		0.0006		0.0006		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		0.0007		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Ni	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
PO4	mg/L	< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		< 0.15		<0.15		<0.15		< 0.15		< 0.15		< 0.15		< 0.15
K	mg/L	35.4		25.6		19.7		21		19.4		17		13.7		13.4		12.4		14.4		12.8		12.4		12.9		12.5		13.3		12.7
Se	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		0.015		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
SiO2	mg/L	9.3		12.1		12.1		12.7		15.3		18.8		17.4		17.4		17.4		18.3		21.7		16.2		16.1		15.8		14.1		13.1
Ag	mg/L	< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025		<0.00025		<0.00025		< 0.00025		< 0.00025		< 0.00025		< 0.00025
Na	mg/L	238		161		125		122		105		91.9		81.3		72.5		59		59.8		53.6		46.2		44		40		37.4		30.3
Sr	mg/L	3.42		2.2		1.88		1.84		1.46		1.22		1.03		0.94		0.88		0.93		0.9		0.93		1		1.05		1.14		1.14
Te	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Tl	mg/L	< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001		<0.0001		<0.0001		< 0.0001		< 0.0001		< 0.0001		< 0.0001
Th	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
Sn	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
Ti	mg/L	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		<0.001		<0.001		< 0.001		< 0.001		< 0.001		< 0.001
U	mg/L	< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005		<0.0005		<0.0005		< 0.0005		< 0.0005		< 0.0005		< 0.0005
V	mg/L	0.002		0.003		0.003		0.003		0.004		0.005		0.004		0.004		0.005		0.005		0.005		0.004		0.004		0.004		0.003		0.003
Zn	mg/L	< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		< 0.005		<0.005		<0.005		< 0.005		< 0.005		< 0.005		0.005
Zr	mg/L	< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		<0.01		<0.01		< 0.01		< 0.01		< 0.01		< 0.01

Column Cell Sample Data

Column Test - Fine PK Top

Date		5-Aug-10	12-Aug-10	19-Aug-10	26-Aug-10
Weeks		1	2	3	4
Volume mL	Input	440	375	350	345
	Output	160	155	165	160
pH		7.55	7.74	7.52	7.84
Cond.	(umhos/cm)	275	213	191	179
ORP	mV	403	403	379	335
Sulphate	(mg/L)	36	22	15	17
Acidity	(mg CaCO3/L)	3.9	5.3	7.7	3.3
Alkalinity	(mg CaCO3/L)	70.0	66.0	70.0	75.5
Chloride	(mg/L)	14	11	9.1	8.0
Al	mg/L	0.0036	0.0031	0.0040	0.0039
Sb	mg/L	0.0003	< 0.0002	0.0003	< 0.0002
As	mg/L	0.0004	0.0005	0.0005	0.0007
Ba	mg/L	0.0554	0.0879	0.102	0.121
Be	mg/L	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Bi	mg/L	0.00001	< 0.00001	0.00002	0.00001
B	mg/L	0.313	0.268	0.291	0.303
Cd	mg/L	< 0.000003	< 0.000003	0.000150	< 0.000003
Ca	mg/L	35.2	24.4	18.3	22.0
Cr	mg/L	0.0020	0.0012	0.0014	0.0013
Co	mg/L	0.000254	0.000219	0.000139	0.000103
Cu	mg/L	0.0012	0.0012	0.0057	0.0088
Fe	mg/L	0.004	< 0.002	0.002	0.017
Pb	mg/L	0.00013	0.00003	0.00006	0.00007
Li	mg/L	0.002	0.002	0.001	0.001
Mg	mg/L	10.2	7.30	5.97	7.83
Mn	mg/L	0.0093	0.0085	0.0102	0.0251
Hg	ug/L	0.02	< 0.01	< 0.01	IP
Mo	mg/L	0.0109	0.00794	0.00728	0.00752
Ni	mg/L	0.0045	0.0039	0.0026	0.0013
P	mg/L	0.160	< 0.009	< 0.009	< 0.009
K	mg/L	5.46	5.64	5.57	5.93
Se	mg/L	0.00022	0.00091	0.00022	< 0.00004
Si	mg/L	1.23	2.18	2.87	3.83
Ag	mg/L	0.00004	< 0.00001	< 0.00001	< 0.00001
Na	mg/L	4.66	3.64	3.17	3.93
Sr	mg/L	0.369	0.259	0.202	0.267
Tl	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Sn	mg/L	0.285	0.361	0.388	0.391
Ti	mg/L	0.0002	0.0001	0.0001	0.0001
U	mg/L	0.000081	0.000469	0.000069	0.000024
V	mg/L	0.00036	0.00081	0.00044	0.00037
Zn	mg/L	0.004	0.002	0.003	0.005
Zr	mg/L	0.00002	0.00002	0.00003	0.00002
DO	mg/L	5.70	4.12	4.30	3.74
Fluoride	mg/L	0.07	0.12	0.17	0.20
Hardness	(mg CaCO3/L)	130	91.1	70.3	87.2
S	mg/L	16.8	12.8	8.98	7.29

Column Cell Sample Data
Column Test - Fine PK Bottom

Date		29-Jul-10	5-Aug-10	12-Aug-10	19-Aug-10	26-Aug-10
Weeks		0	1	2	3	4
Volume mL	Input	1260	#N/A	#N/A	#N/A	#N/A
	Output	160	155	160	160	160
pH		7.60	7.98	7.99	7.99	8.09
Cond.	(umhos/cm)	91	189	309	265	277
ORP	mV	332	395	#N/A	376	322
Sulphate	(mg/L)	8	11	1	1	4
Acidity	(mg CaCO3/L)	4.2	3.5	5.5	6.3	3.2
Alkalinity	(mg CaCO3/L)	38.6	75.0	134.7	120.1	116.3
Chloride	(mg/L)	2.1	8.3	14	19	26
Al	mg/L	0.0307	0.0398	0.0031	0.0069	0.0048
Sb	mg/L	0.0027	0.0055	0.0011	0.0005	0.0003
As	mg/L	0.0008	0.0007	0.0006	0.0009	0.0006
Ba	mg/L	0.0555	0.117	0.741	0.733	0.829
Be	mg/L	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Bi	mg/L	0.00005	< 0.00001	< 0.00001	0.00001	0.00002
B	mg/L	0.210	1.09	1.52	2.08	2.29
Cd	mg/L	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Ca	mg/L	10.3	19.9	35.3	22.6	28.8
Cr	mg/L	0.0022	0.0019	0.0018	0.0017	0.0012
Co	mg/L	0.000092	0.000137	0.000040	0.000048	0.000032
Cu	mg/L	0.0030	0.0011	0.0008	0.0033	0.0010
Fe	mg/L	0.048	0.059	< 0.002	0.002	0.010
Pb	mg/L	0.00008	0.00014	0.00004	0.00007	0.00013
Li	mg/L	< 0.001	0.003	0.002	0.002	0.001
Mg	mg/L	2.72	5.77	9.97	6.84	9.68
Mn	mg/L	0.0015	0.0044	0.0043	0.0041	0.0141
Hg	ug/L	< 0.01	0.02	< 0.01	< 0.01	IP
Mo	mg/L	0.00873	0.0189	0.00849	0.0134	0.0148
Ni	mg/L	0.0023	0.0036	0.0003	0.0009	0.0005
P	mg/L	< 0.009	0.094	0.100	0.112	0.148
K	mg/L	2.48	9.33	14.4	12.3	13.3
Se	mg/L	< 0.00004	0.00010	< 0.00004	0.00054	0.00060
Si	mg/L	3.09	6.68	7.09	6.81	7.90
Ag	mg/L	0.00003	0.00002	< 0.00001	0.00002	< 0.00001
Na	mg/L	0.64	4.43	10.2	10.2	14.7
Sr	mg/L	0.107	0.218	0.411	0.274	0.383
Tl	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Sn	mg/L	0.0202	0.117	0.0228	0.0702	0.0792
Ti	mg/L	0.0013	0.0018	0.0005	0.0001	0.0001
U	mg/L	0.000036	0.000037	0.000259	0.000102	0.000008
V	mg/L	0.00748	0.00444	0.00034	0.00040	0.00028
Zn	mg/L	0.001	< 0.001	< 0.001	0.002	0.001
Zr	mg/L	0.00007	0.00010	0.00002	0.00008	0.00005
DO	mg/L	1.75	0.45	0.88	0.88	0.58
Fluoride	mg/L	0.34	0.67	0.62	0.80	0.81
Hardness	(mg CaCO3/L)	37.0	73.4	129	84.6	112
S	mg/L	2.77	6.42	0.86	1.10	1.27

Column Cell Sample Data
Column Test - Coarse PK Top

Date		5-Aug-10	12-Aug-10	19-Aug-10	26-Aug-10
Weeks		1	2	3	4
Volume mL	Input	340	320	350	335
	Output	155	155	160	155
pH		7.55	7.63	7.66	7.59
Cond.	(umhos/cm)	120	139	173	184
ORP	mV	405	403	376	333
Sulphate	(mg/L)	4	2	3	10
Acidity	(mg CaCO3/L)	3.2	4.5	5.8	3.5
Alkalinity	(mg CaCO3/L)	29.0	33.7	37.9	37.6
Chloride	(mg/L)	23	26	37	40
Al	mg/L	0.0054	0.0022	0.0036	0.0037
Sb	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
As	mg/L	0.0002	0.0005	0.0008	0.0008
Ba	mg/L	0.0432	0.0600	0.0738	0.0725
Be	mg/L	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Bi	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
B	mg/L	0.298	0.351	0.523	0.535
Cd	mg/L	< 0.000003	< 0.000003	< 0.000003	0.000016
Ca	mg/L	8.20	8.87	9.42	12.7
Cr	mg/L	0.0024	0.0014	0.0015	0.0011
Co	mg/L	0.000108	0.000122	0.000166	0.000124
Cu	mg/L	0.0031	0.0018	0.0033	0.0011
Fe	mg/L	0.010	< 0.002	< 0.002	0.010
Pb	mg/L	0.00010	0.00004	0.00008	0.00008
Li	mg/L	< 0.001	< 0.001	0.001	< 0.001
Mg	mg/L	3.51	3.85	4.11	5.90
Mn	mg/L	0.0044	0.0045	0.0049	0.0117
Hg	ug/L	< 0.01	0.01	< 0.01	IP
Mo	mg/L	0.00096	0.00081	0.00114	0.00152
Ni	mg/L	0.0027	0.0030	0.0038	0.0030
P	mg/L	< 0.009	< 0.009	< 0.009	< 0.009
K	mg/L	3.75	4.50	5.31	5.97
Se	mg/L	0.00030	0.00049	0.00057	< 0.00004
Si	mg/L	1.75	2.55	2.95	3.70
Ag	mg/L	0.00002	< 0.00001	0.00002	< 0.00001
Na	mg/L	8.52	8.80	10.0	13.4
Sr	mg/L	0.112	0.122	0.132	0.195
Tl	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Sn	mg/L	0.276	0.327	0.358	0.352
Ti	mg/L	< 0.0001	0.0001	0.0001	0.0001
U	mg/L	0.000024	0.000187	0.000071	0.000020
V	mg/L	0.00040	0.00060	0.00086	0.00089
Zn	mg/L	0.002	0.002	0.003	0.002
Zr	mg/L	< 0.00001	< 0.00001	0.00002	0.00002
DO	mg/L	3.50	4.79	5.40	5.81
Fluoride	mg/L	0.11	0.14	0.19	0.20
Hardness	(mg CaCO3/L)	34.9	38.0	40.4	56.1
S	mg/L	1.47	0.95	1.49	1.47

Column Cell Sample Data

Column Test - Coarse PK Bottom

Date		29-Jul-10	5-Aug-10	12-Aug-10	19-Aug-10	26-Aug-10
Weeks		0	1	2	3	4
Volume mL	Input	540	#N/A	#N/A	#N/A	#N/A
	Output	165	175	160	160	160
pH		7.62	7.73	7.79	7.82	7.88
Cond.	(umhos/cm)	626	1310	1234	913	718
ORP	mV	342	420	417	396	325
Sulphate	(mg/L)	28	30	15	7	9
Acidity	(mg CaCO3/L)	5.7	5.3	6.5	7.5	4.1
Alkalinity	(mg CaCO3/L)	49.7	67.0	58.0	50.7	42.3
Chloride	(mg/L)	180	390	370	270	210
Al	mg/L	0.0029	0.0030	0.0027	0.0038	0.0043
Sb	mg/L	0.0006	< 0.0002	< 0.0002	< 0.0002	< 0.0002
As	mg/L	0.0016	0.0033	0.0026	0.0019	0.0030
Ba	mg/L	0.144	0.292	0.255	0.195	0.162
Be	mg/L	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Bi	mg/L	0.00003	< 0.00001	< 0.00001	0.00001	< 0.00001
B	mg/L	1.49	3.13	2.87	3.00	2.68
Cd	mg/L	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Ca	mg/L	40.0	92.5	77.8	46.2	37.5
Cr	mg/L	0.0060	0.0017	0.0021	0.0013	0.0014
Co	mg/L	0.000087	0.000121	0.000127	0.000060	0.000056
Cu	mg/L	0.0032	0.0007	0.0016	0.0011	0.0019
Fe	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	0.009
Pb	mg/L	< 0.00002	0.00002	0.00004	0.00012	0.00009
Li	mg/L	0.004	0.006	0.004	0.004	0.002
Mg	mg/L	15.9	36.0	30.6	18.4	15.5
Mn	mg/L	0.0022	0.0039	0.0035	0.0024	0.0091
Hg	ug/L	0.02	0.02	0.01	< 0.01	***
Mo	mg/L	0.00517	0.00591	0.00463	0.00382	0.00371
Ni	mg/L	0.0030	0.0025	0.0023	0.0016	0.0011
P	mg/L	< 0.009	0.025	0.020	< 0.009	< 0.009
K	mg/L	15.4	33.5	31.1	25.1	19.3
Se	mg/L	0.00051	0.00760	0.00040	0.00410	< 0.00004
Si	mg/L	3.81	5.85	5.86	5.51	5.36
Ag	mg/L	0.00003	0.00006	0.00004	0.00003	0.00001
Na	mg/L	49.9	91.5	91.1	67.8	62.4
Sr	mg/L	0.559	1.20	1.02	0.664	0.584
Tl	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Sn	mg/L	0.0283	0.0215	0.0193	0.0167	0.110
Ti	mg/L	0.0003	0.0003	0.0004	0.0008	0.0006
U	mg/L	0.000019	0.000039	0.000089	0.000008	0.000019
V	mg/L	0.00323	0.00234	0.00192	0.00164	0.00127
Zn	mg/L	< 0.001	0.001	0.002	0.001	0.002
Zr	mg/L	0.00003	0.00002	0.00002	0.00003	0.00003
DO	mg/L	1.86	1.65	2.59	0.74	0.98
Fluoride	mg/L	0.40	0.52	0.49	0.58	0.60
Hardness	(mg CaCO3/L)	165	379	320	191	158
S	mg/L	6.45	9.06	7.14	6.66	4.66