



Allegiance Metals Pty Limited

ACN 073 192 337 ABN 36 073 192 337

PO Box 62

Zeehan Tasmania 7469

Telephone: (03) 6471 6555 Fax: (03) 6471 6577

Email: general@avebury.com.au

EL28/1988 ZEEHAN

ANNUAL REPORT TO

DECEMBER 2007

Volume 1 of 2.

**Tim Callaghan
Chief Geologist
Allegiance Metals Pty Ltd**

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All figures and coordinates in this report are in Geodetic Datum AGD66.

1 SUMMARY

Exploration Licence 28/1988 lies adjacent to ML3M/2003 which hosts the Avebury Nickel Sulphide deposit and is highly prospective for similar styles of mineralisation. The Avebury Nickel Sulphide deposit is hosted in Cambrian Ultramafic Rocks and which have been demonstrated to extend onto the surrounding EL's, including EL28/1988.

In the past twelve months the following work was completed:

DDH's A165, A167 and A168 were targeted on a prominent geophysical anomaly underlying an interpreted thin thrust of Precambrian basement. All of these holes successfully intersected Cambrian ultramafic rocks identical to those hosting the Avebury deposit. Two of the holes were collared on EL28/1988.

Resource estimation of the East Avebury and Saxon deposits.

Cut Off Ni %		Tonnes	Ni %	As ppm	Co ppm	Tonnes Ni
0.85	East Avebury Nth	390,000	1.07	314	411	4,000
	East Avebury Sth	80,000	1.12	591	593	1,000
	Saxon	20,000	0.88	488	288	
	Total	490,000	1.07	365	436	5,000
0.70	East Avebury Nth	650,000	0.95	264	337	6,000
	East Avebury Sth	370,000	0.83	398	333	3,000
	Saxon	410,000	0.77	458	262	3,000
	Total	1,430,000	0.87	354	315	12,000
0.40	East Avebury Nth	950,000	0.85	291	292	8,000
	East Avebury Sth	610,000	0.73	428	274	4,000
	Saxon	760,000	0.64	384	246	5,000
	Total	2,320,000	0.75	357	272	17,000

Continuous exploration of the East Avebury area extending east from the Avebury Resource. A total of 21 drill holes for 9673.5m have been completed. Many of these have either extended known mineralisation or intersected new mineralisation, particularly in the Bison, Bintje and Deep North Avebury areas. Annual expenditure on EL28/1988 was \$1.6M.

An ML application has been submitted for the eastern portion of EL28/1988.

Exploration planned for 2008 includes:

- Drill testing the Trial Harbour anomaly initially with three diamond drill holes.
- Continued exploration east of the Avebury Mine.

A total exploration budget of approximately \$4M has been submitted for the 2008 calendar year.

2 INTRODUCTION

EL28/1988 Zeehan of 13 km² exists in two parts – one east of the Avebury Mine, the other west of the mine (Figure 1).

Both parts of the EL are highly prospective for Avebury style nickel sulphide deposits. The Avebury deposits are hosted in serpentinitised dunite or strongly metasomatised, tremolite-diopside ultramafic skarn intruded into Mid Cambrian basaltic volcanoclastics. The altered ultramafics have a strong magnetic signature due to high concentrations of magnetite. High resolution aeromagnetism is a key early exploration tool. Much of the ultramafic is not outcropping and time consuming and expensive diamond drilling in often rugged terrain is required for effective exploration.

Allegiance Metals are actively exploring ML 3M/2003 and surrounding EL28/1988, EL22/1997 and EL37/2003. Simultaneously Allegiance commenced development of the Avebury Mine and Mill due for commissioning in late 2007. The current mine is designed to produce 7,000tpa of Ni in high grade concentrates from 900,000tpa of ore. The current resource is tabulated in Tables 2 - 2.

Table 2. Mineral Resources 0.85% Ni Cut off

Classification	Tonnes	Ni %	As ppm	Co ppm	Tonnes Ni
Inferred	3,530,000	1.24	649	283	
Indicated	4,180,000	1.29	348	300	
Measured	390,000	1.22	521	302	
Total	8,100,000	1.26	487	292	102,000

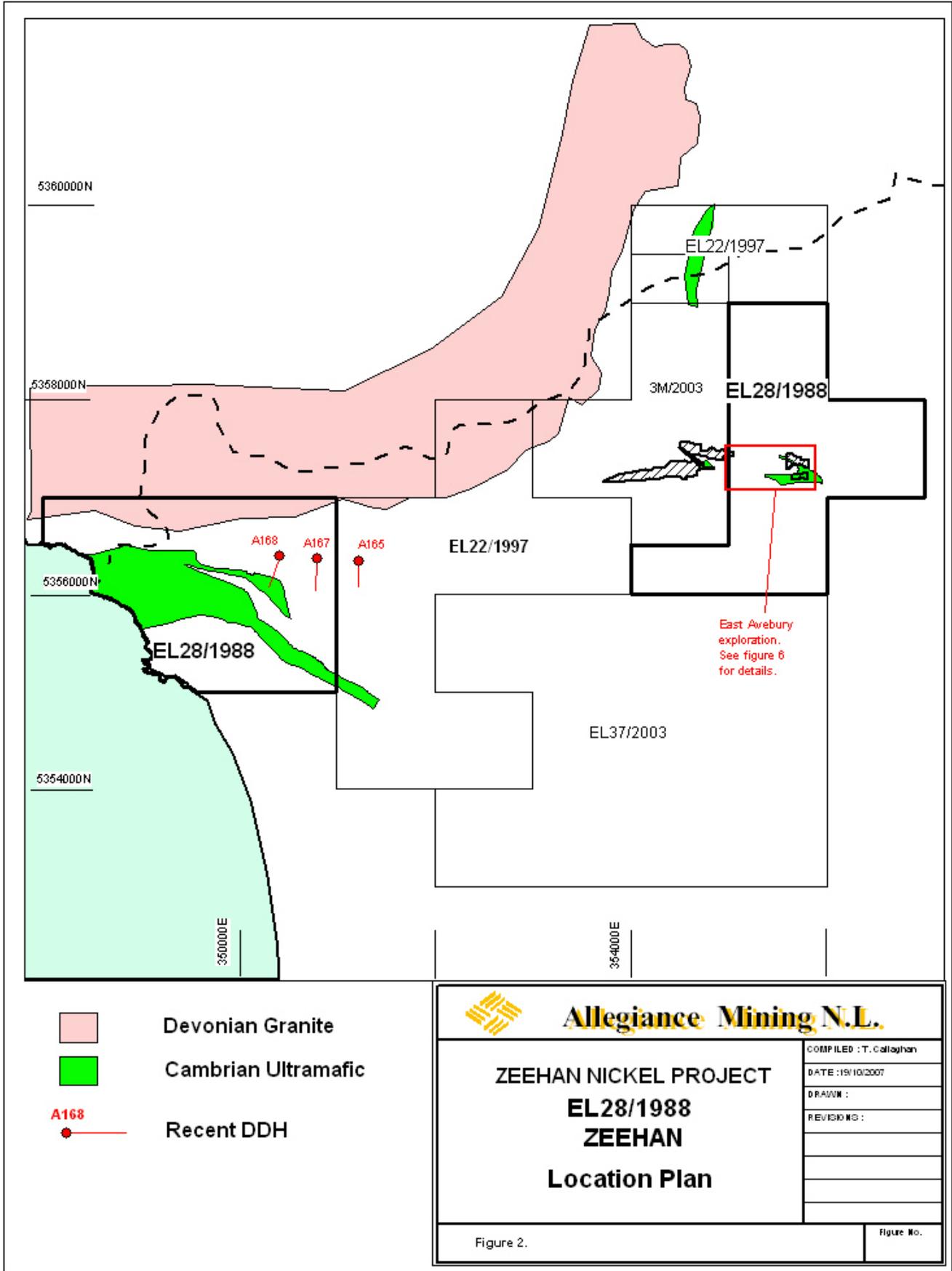
Table 3. Mineral Resources 0.7% Cut off

Classification	Tonnes	Ni %	As ppm	Co ppm	Tonnes Ni
Inferred	5,830,000	1.05	488	255	
Indicated	5,640,000	1.16	381	278	
Measured	460,000	1.15	507	284	
Total	11,930,000	1.11	438	266	131,000

Table 4. Mineral Resources 0.4% Ni Cut off

Classification	Tonnes	Ni %	As ppm	Co ppm	Tonnes Ni
Inferred	8,830,000	0.9	392	225	
Indicated	6,910,000	1.06	360	258	
Measured	530,000	1.08	478	267	
Total	16,270,000	0.97	381	240	158,000

Exploration has continually extended the Avebury Resource which now extends onto adjacent EL 28/1988. An ML application is currently being processed. Further resource additions from the ML and surrounding EL's are anticipated. On April 4 2007 a request for amalgamation of exploration expenditure on the near Mine Exploration was granted. Exploration for the past year focused on EL28/1988 with resource definition drilling of the East Avebury and Saxon Resources. EL28/1988 is strategically important to the Avebury Project and will continue to be the focus of exploration and resource expansion.



Devonian Granite

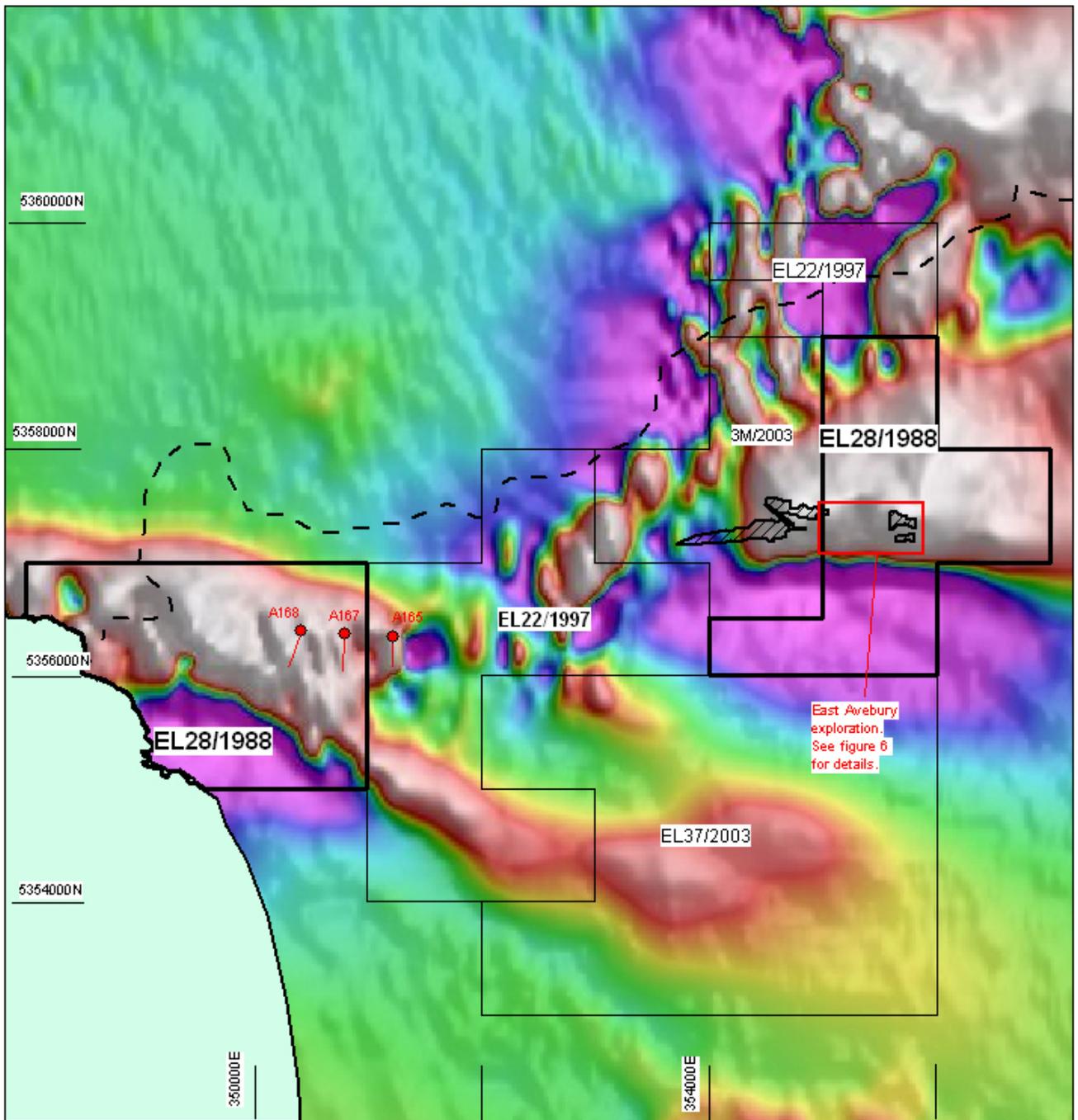


Cambrian Ultramafic

A168



Recent DDH



- Devonian Granite
- Cambrian Ultramafic
- A168
 Recent DDH



Allegiance Mining N.L.

ZEEHAN NICKEL PROJECT
EL28/1988
ZEEHAN
Location Plan

COMPILED : T. Callaghan
DATE : 19/10/2007
DRAWN :
REVISIONS :

Figure 2.

Figure No.

3 EXPLORATION COMPLETED 2006 – 07

The following work was completed on EL28/1988 during the twelve month period ended 8 December 2007:

- Drilling of three holes into the large amplitude Trial Harbour aeromagnetic anomaly
- Resource Definition Drilling at East Avebury/Bison/Bintje.
- East Avebury Resource Estimation
- East Avebury ML Application

3.1 Trial Harbour Aeromagnetic Anomaly

Three DDH's were drilled into the high amplitude aeromagnetic anomaly midway between Trial Harbour and Avebury (Figure 1 and 2). One drill hole A165 was drilled on EL22/1997 and two others (A167 and A168) immediately west on EL28/1988.

DDH A165 was collared in what was interpreted to be a thin thrust sheet of Precambrian siliciclastics (Figure 5). The hole passed into typical phlogopite altered feldspar-lithic basaltic volcanoclastic greywacke of the Crimson Creek Group. A thin, strongly sheared and tectonised ultramafic was intersected between 211.0m and 216.9m. The ultramafic was comprised of 50% massive magnetite with black serpentinite gangue and minor tremolite altered skarn veins. Ni and Cr assays were typical of background dunite values (0.2% Ni, 900ppm Cr). The hole successfully identified the attenuated western margin of the Trial Harbour ultramafic, however no significant nickel sulphides were identified.

DDH A167 was collared 500m west of A165 just inside the EL28/1988 boundary (Figure 1). The hole was collared in a possible thrust faulted slice of Oonah Formation siliciclastics (Figure 4). The hole then intersected a prominent fault separating the siliciclastics from Crimson Creek formation feldspar-lithic greywacke. The hole intersected intensely metasomatised ultramafic skarn (254.6 – 313.6m) composed of crystalline tremolite-diopside with 5-15% vein and disseminated magnetite. Minor sulphides, predominantly pyrrhotite were present. The ultramafic was strongly dolomite altered between 267.5 and 284.1m. The rock was comprised of pale grey pervasive dolomite with 10-15% magnetite and trace pyrrhotite and sphalerite disseminations.

Intense carbonate altered ultramafic with minor sphalerite overlies both the east Avebury and Viking Ni sulphide deposits.

DDH A168 was collared a further 500m west of A167 (Figure 1). This hole intersected intensely metasomatised ultramafic skarn between 333.2m and 389.1m before passing into black serpentinite to the end of hole (Figure 5). Minor sulphides were present but nickel sulphides were not present in economic quantities.

These three holes all successfully identified the host ultramafic rock. Follow up exploration is required to identify if there are any significant nickel sulphide deposits associated with the host sequence. The ultramafic thickens to the west and remains

open to the south, outcropping on EL28/1988. Further drilling is planned for this area.

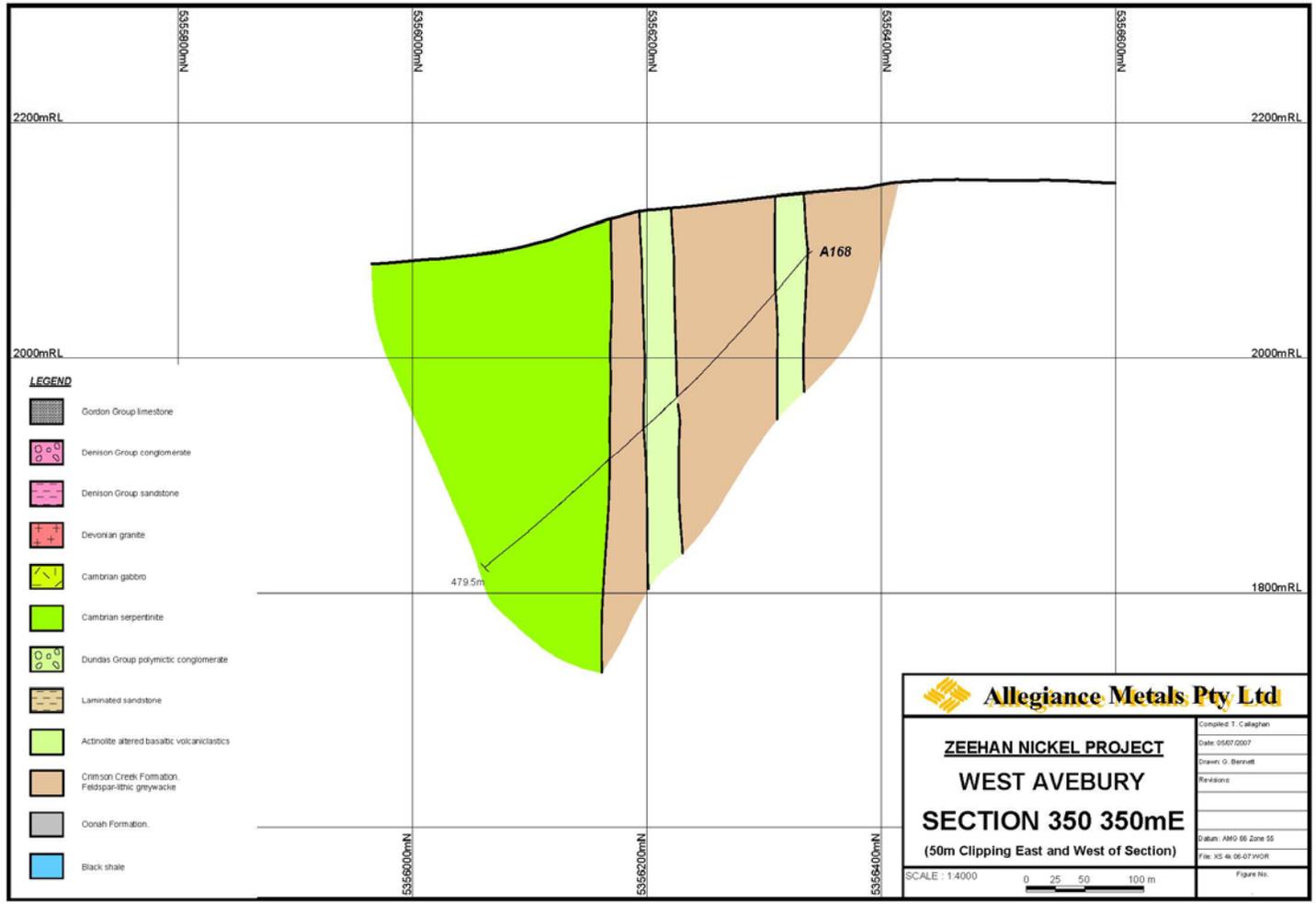


Figure 3. Section 350 350

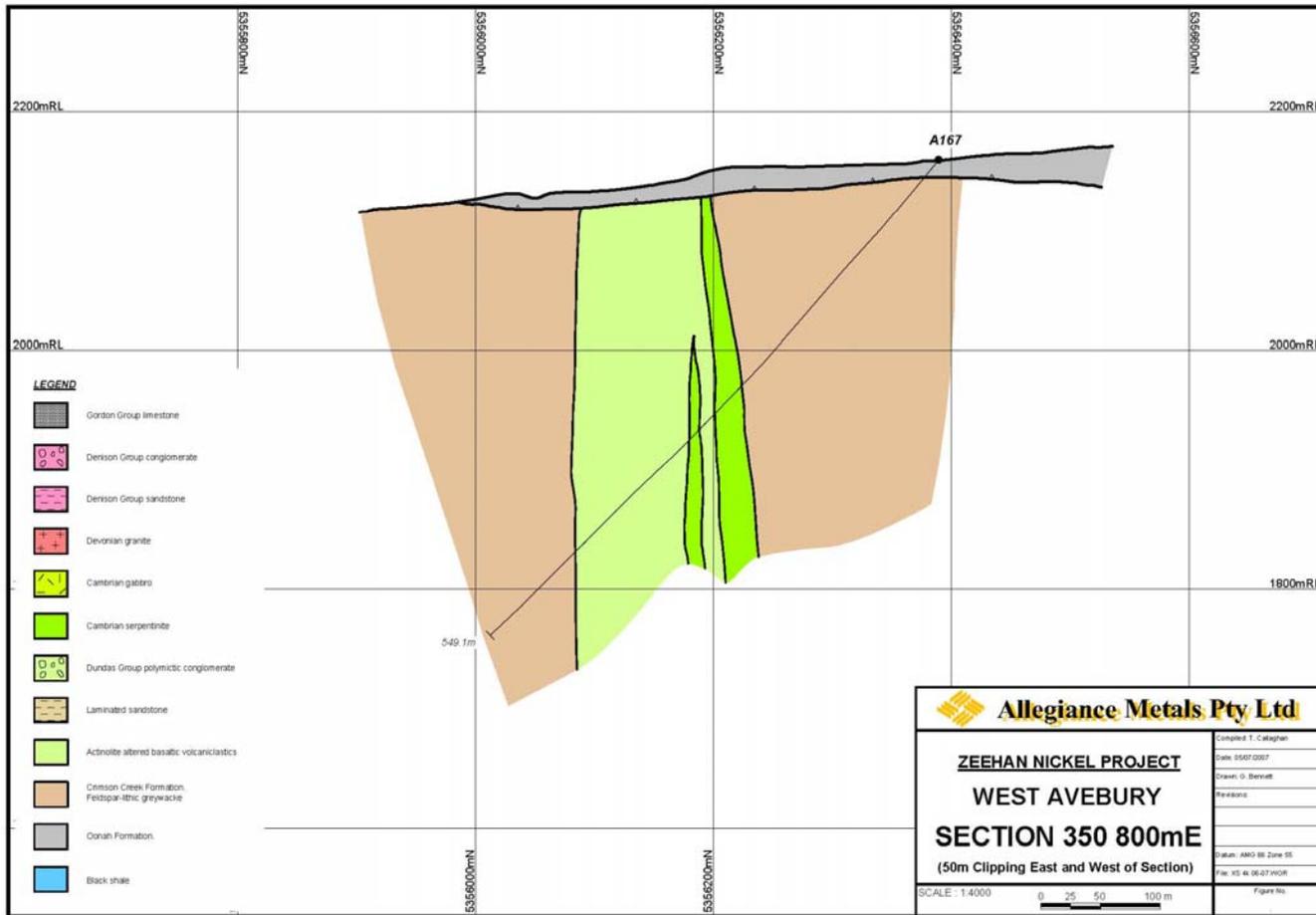


Figure 4. Section 350 800

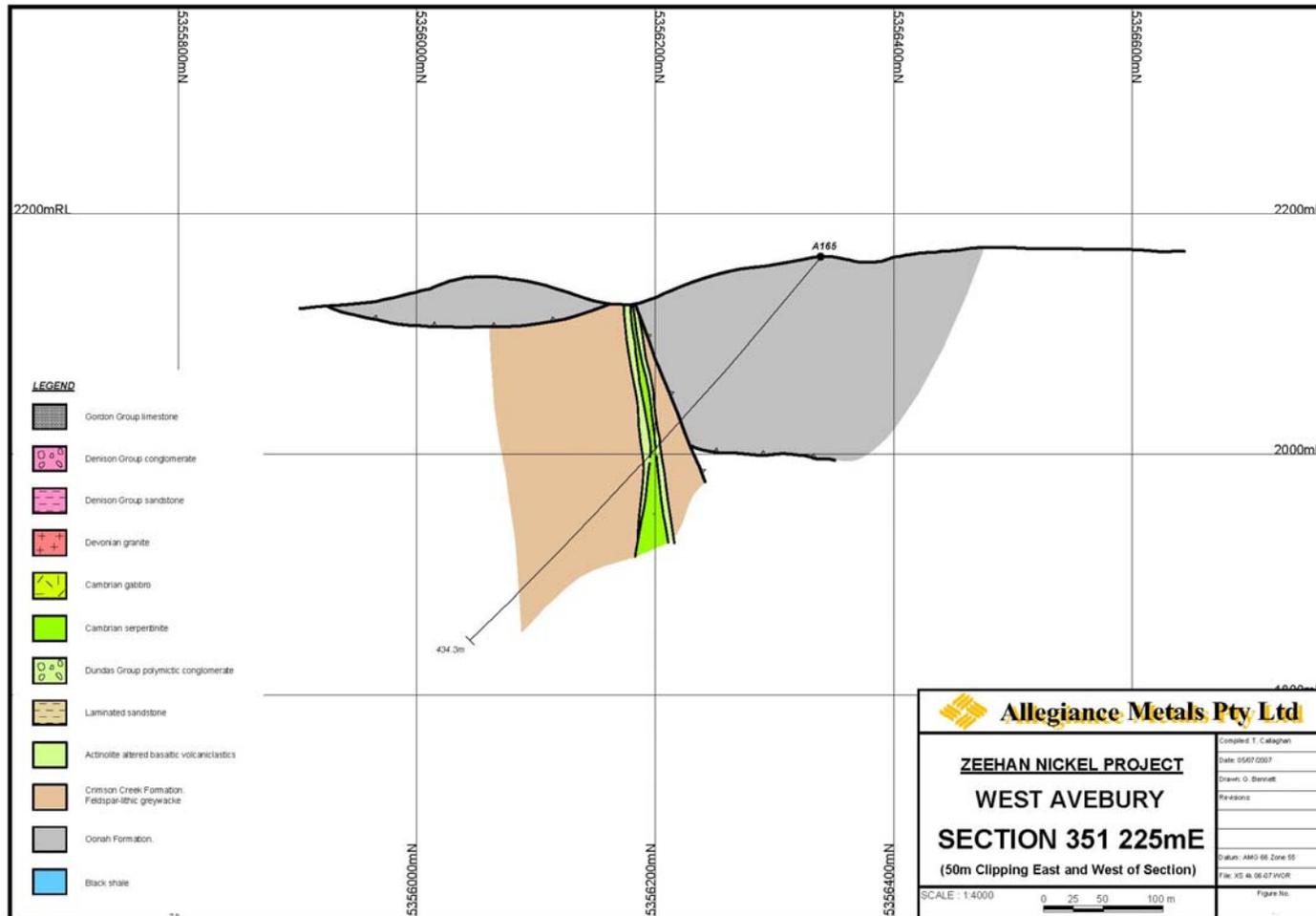


Figure 5. Section 351 225

3.2 East Avebury Exploration

Exploration and resource extension drilling East of the ML continued at an accelerated pace during the year with two diamond drill rigs on two shifts. Drilling was targeted on resource definition of the East Avebury and Saxon deposits as well as exploration of the Bismark, Bison and Bintje prospects. All holes have been accessed via the East Avebury road (Figure 1) with the exception of A174 and A176 which were helicopter supported. The East Avebury road was upgraded and extended for the drilling program to allow all weather access. The Comstock Creek ford was replaced with a wooden bridge.

A total of 21 DDH for 9773.5m have been drilled on EL28/1988 to the east of the Avebury ML. Drill logs are listed in Appendix 1. A summary of drilling results in the east of EL28/1988 are listed in Tables 5 and 6. Drill sections and long projections are located in the Enclosures.

Drilling has extended mineralisation beyond current resource estimate boundaries for the East Avebury, Saxon and Bintje deposits. New mineralisation has been identified at the Bison Prospect (DDH's A174, A176 and A208) and along strike and down dip from North Avebury (DDH A211). Significant resource extensions are anticipated after further infill drilling is complete.

Table 5. BISON and BINTJE EXPLORATION DRILLING

Drill Hole	Collar Details	Intersection	Intersection Width (m)	Est. True Width (m)	% Ni	% S	% As	% Co
A174	354,985.4 E 5,356,952.3 N 2054.4RL Brg 2.3 Dip -50° Length 433.7m	Bison 294.0 – 301.0	7.0	5	1.5	1.5	0.02	0.04
		331.0 – 355.0 Inc.	24.0	17.0	0.7	0.8	0.04	0.02
		339.0 – 341.0	3.0	2.0	1.1	2.0	0.02	0.02
A176	354,985.2 E 5,356,952.3 N 2054.4RL Brg 2.3 Dip -50° Length 592.7m	Bison No significant assays						
		Bintje 569.0 – 570.0	1.0	1.0	2.28	0.1	1.34	0.3
A208	355,113.5 E 5,357,030.6 N 2124.2RL Brg 0 Dip -65.3° Length 593m	Bison 376.5 – 389.5	13.0	9.0	0.8	0.15	0.03	1.3
		And 511.0 – 527.0	16.0	11.0	0.5	<0.01	<0.01	1.5
A211	355,113.3 E 5,357,029.3 N 2124.2RL Brg 358.4 Dip -45.0° Length 601.6m	Bintje 421.6 – 427.0	5.4	5.0	0.7	0.5	<0.01	0.01
		Nth Avebury 571.0 – 589.0	18.0	14.0	0.8	0.6	<0.01	0.02

Table 6. EAST AVEBURY EXPLORATION DRILLING

Drill Hole	Collar Details	Intersection	Intersection Width (m)	Est. True Width (m)	% Ni	% S	% As	% Co
A173	355,666.7 E 5,357,514.1 N 2186.1 RL Brg 183.3 Dip -54.0° Length 308.8m	East Avebury 227.0 – 231.0	4.0	3.0	0.7	0.5	0.02	0.03
		East Avebury 266.0 – 272.0	6.0	4.0	0.6	0.5	<0.01	0.03
A175	355,802.7E 5,357,497.5 N 2187.8 RL Brg 177.6 Dip -59.3° Length 431.1	East Avebury 354.0 – 355.0	1.0	1.0	1.4	0.1	1.07	0.02
A177	355,805.3 E 5,357,439.3 N 2188.9 RL Brg 179.0 Dip -45.0° Length 375.3m	East_Avebury No significant assays						
A199	355,294.1 E 5,357,249.9 N 2173.8 RL Brg 1.5 Dip -50.4° Length 347m	East Avebury No significant results						
A212	356,001 E 5,357,378.1 N 2193.2 RL Brg 0.9 Dip -49.3° Length 400.2m	East_Avebury No significant results						
A213	356,000.9 E 5,357,378.6 N 2193.2 RL Brg 180 Dip -55.0° Length 415.4m	East Avebury No significant assays						
A215	355,999.5 E 5,357,511.7 N 2194.9 RL Brg 179.7 Dip -53.7° Length 511.3m	East Avebury No significant assays						

A216	355,895.0 E 5,357,369.0 N 2189.3 RL Brg 179.6 Dip -49.5° Length 401.5m	Saxon Did not intersect host horizon							
A182	355,910.5 E 5,357,512.9 N 2192.8 RL Brg 179.6 Dip -53.7° Length 591.5m	Saxon 506.0 – 520.0 Including 507.0 – 508.0 And 516.0 – 519.0	14.0 1.0 3.0	11.0 1.0 3.0	1.2 5.0 2.4	3.0 1.5 3.7	0.2 1.3 0.4	0.04 0.07 0.08	
A185	355,908.4 E 5,357,514.5 N 2192.7 RL Brg 0.9 Dip -49.3° Length 515.0m	East_Avebury Nth Anomaly Host rocks not intersected.							
A187	355,551.0 E 5,357,282.5 N 2175.9 RL Brg 0.09 Dip -45.0° Length 353.0m	East Avebury 133.0 – 134.0 and 143.0 – 145.0	1.0m 2.0m	1.0m 1.0m	1.3% 0.6%	2.3 0.5	0.70 <0.01	0.02 0.02	
A190	355,551.0 E 5,357,282.5 N 2175.9 RL Brg 359.9 Dip -60.1° Length 518.0m	East Avebury 164.0 – 174.6	10.6m	5.0m	0.8%	0.7	0.05	0.02	
A192A	355,293.0 E 5,357,242.3 N 2173.0 RL Brg 179.2 Dip -49.3° Length 363.7m	Saxon No significant assays							
A194	355,292.9 E 5,357,242.8 N 2173.0 RL Brg 180.5 Dip -59.1° Length 399.0m	Saxon Host rocks not intersected.							
A217	355,483.2 E 5,357,288.8 N 2172.4 RL Brg 359.2 Dip -44.9° Length 618.0m	East Avebury 125.3 – 144.0	15.1m	12.0m	1.1%	1.2	0.12	0.03	

3.3 East Avebury Resource

An Inferred Resource Estimate was modelled for the East Avebury and Saxon Deposits between 355600m and 355800mE in March 2007 (Figures 6). The Resource Estimate is documented in a separate report (Callaghan, 2007) submitted with this Annual Report.

The East Avebury and Saxon Nickel Sulphide deposits are located on EL28/1988 held by Allegiance Metals Ltd. The deposits are hosted in serpentinised and metasomatised ultramafic intrusives 1km along strike to the East of the Avebury Mine. The intrusives are located 50-100m below surface and are hosted in basaltic volcanoclastic greywackes and conglomerates. Mineralisation consists of coarse pentlandite disseminations and stringers hosted on or near the margins of the ultramafic intrusives.

The East Avebury and Saxon deposits have been the focus of exploration and preliminary resource definition drilling through the latter half of 2006. The deposits have been drilled out on a 50m x 100m to 100m x 100m pattern over a 200m strike length and approximate 200m dip extension. The deposits remain open to the east, west and down dip.

Three lenses of mineralisation have been delineated to date, East Avebury North, East Avebury South and Saxon. Three dimensional wire-frame models of the mineralisation were used to constrain Ni, S, Co, As and SG interpolations into a block model. An inverse distance squared algorithm was used for the estimation. The Resource is in the Inferred Classification because of the low numbers of samples used in the estimation and the broad drill spacing. Drilling is ongoing and significant additions are anticipated.

The resource estimate forms the basis for an ML application over the eastern portion of EL28/1988. A copy of the resource report has been submitted with the ML application documentation.

Table 1. East Avebury - Saxon Inferred Resources						
Cut Off Ni %		Tonnes	Ni %	As ppm	Co ppm	Tonnes Ni
0.85	East Avebury Nth	390,000	1.07	314	411	4,000
	East Avebury Sth	80,000	1.12	591	593	1,000
	Saxon	20,000	0.88	488	288	
	Total	490,000	1.07	365	436	5,000
0.70	East Avebury Nth	650,000	0.95	264	337	6,000
	East Avebury Sth	370,000	0.83	398	333	3,000
	Saxon	410,000	0.77	458	262	3,000
	Total	1,430,000	0.87	354	315	12,000
0.40	East Avebury Nth	950,000	0.85	291	292	8,000
	East Avebury Sth	610,000	0.73	428	274	4,000
	Saxon	760,000	0.64	384	246	5,000
	Total	2,320,000	0.75	357	272	17,000

3.4 ML Application

A Mine Lease Application for the eastern portion of EL 28/1988 has been lodged with Mineral Resources Tasmania. Allegiance Mining NL have asked for the new ML to

be amalgamated with the current Avebury ML 3M/2003. Details of the application have been submitted to Mineral Resource Tasmania in a report dated & May 2007.

4 EXPLORATION PLANNED 2007 – 08

Exploration planned for 2007 – 08 will include:

- Drilling at East Avebury
- Drilling of Trial Harbour aeromagnetic anomaly.

4.1 *East Avebury*

Exploration and infill drilling between the Avebury Mine and the East Avebury Resource and along strike to the east and north of East Avebury is anticipated to continue at the current level. One to two diamond rigs will be working on a 24hr 5 day roster. Minor access road works will be required to support the exploration activity. A minimum of 10 000m of drilling is anticipated for the eastern end of the EL.

This area will be amalgamated with the Avebury ML before the next report is due.

4.2 *Trial Harbour Aeromagnetic Anomaly*

Three diamond drill holes testing a strong magnetic high west of Trial Harbour have been proposed for the coming financial year (Figure 7).

Two holes will be accessed via existing roads or short extensions off existing roads in the Trial Harbour area.

These holes are designed to test a very strong magnetic anomaly within ultramafic rocks east of the Ni Reward Mine at Trial Harbour.

The third hole is designed to test the north east margin of the concealed ultramafic body for nickel sulphide mineralisation. This will be a helicopter supported hole to minimise impact o the environment.

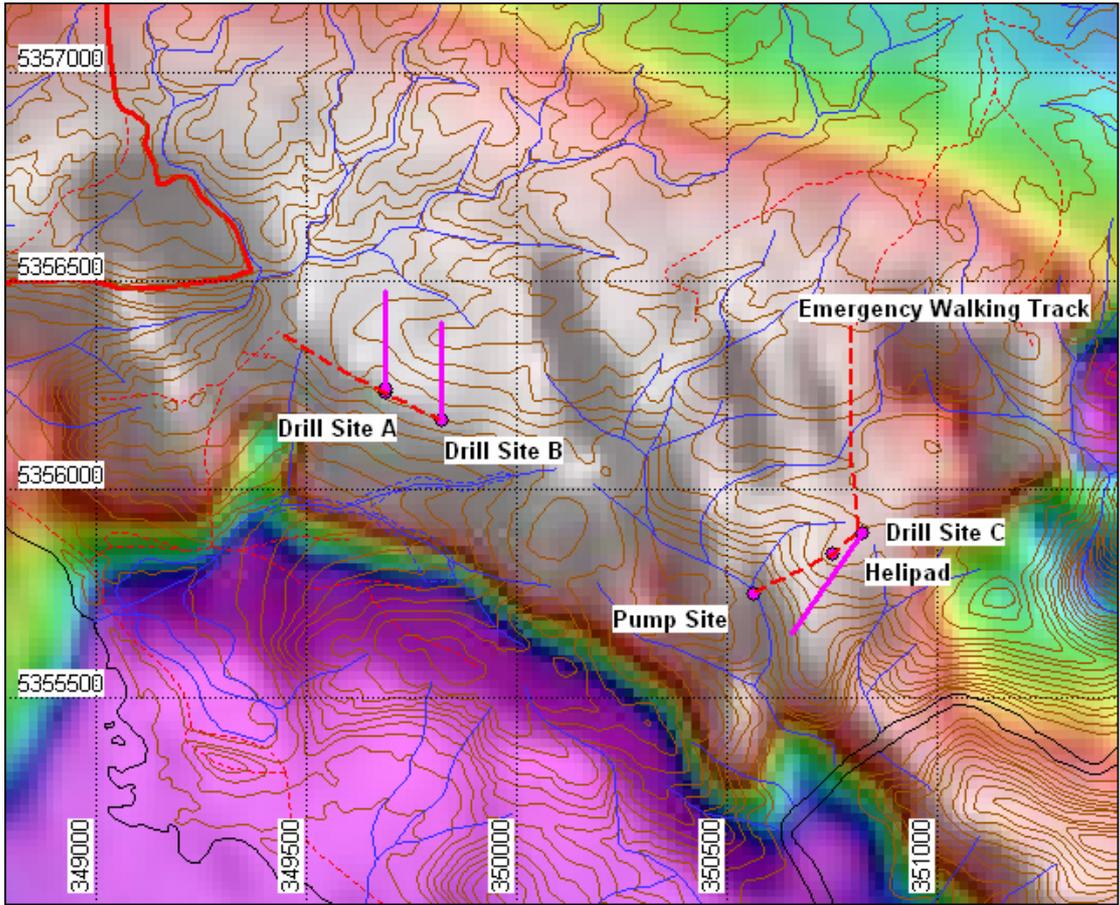


Figure 7. Trial Harbour Proposed Drilling.

5 SCHEDULE AND BUDGET

Exploration of the Avebury Mine Lease and surrounding EL's is continuing on an annual basis with 2-3 surface exploration rigs. An annual exploration budget of approximately \$4M has been submitted for the 2008 calendar year. The work program for the western portion of EL28/1988 is expected to cost a minimum of \$400 000.

Appendix 1

Drill Logs

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
West_A	A165	0	6.8	Ccc	GWAC	Ph	G3	0.00	Gr			Weathered coarse grained feldspathic greywacke sandstone, core extremely broken. Abundant goethite joint faces. Minor phlogopite alteration.
West_A	A165	6.8	105.7	Ccc	GWAC	PhMc	B2	0.05	Gr	Bd	30	Light brown to light grey massive and disrupted quartz sandstone beds with bands of thinly to thickly laminated siltstone beds. Minor phlogopite and actinolite altered sandstone sediments. Minor quartz veinlets present. Minor disseminated and veinlets of Py present. Minor Cb veinlets and mica present. Ground tends to be fairly broken and folded.
West_A	A165	105.7	140.7		FALT	PhSi	A3	0.05	Sp			Disrupted mylonite brecciated sandstone beds. Abundant phlogopite alteration and qtz veins. Minor calcite veinlets. Minor disseminated Py and Po present. Fine grained muddy/silicious matrix with abundant phlogopite and minor actinolite alteration. Healed fault zone?. Silica rich rocks. Tenth Legion fault?
West_A	A165	140.7	178	Ccc	GWAC	PhAc	B2	0.05	Sp	Bd	35	Light brown to light grey massive and disrupted quartz sandstone beds with bands of thinly to thickly laminated siltstone beds. Minor phlogopite and actinolite altered sandstone sediments. Minor quartz veinlets present. Minor disseminated and veinlets of Po and Py present. Minor Cb veinlets and mica present. Ground tends to be fairly broken and folded. Silica altered?
West_A	A165	178	182.2		FALT	SiTr	G2	0.05	Sp			Healed silica/tremolite/carbonate fault zone. Heavily altered contact between two different sediments. Abundant large tremolite and carbonate crystals present with abundant silica present. Minor disseminated niccolite present within tremolite.
West_A	A165	182.2	186.6	Cba	VBLB	AcDi	G3	0.05	Sp	Fo	34	Volcaniclastic basaltic lithic breccia. Abundant diopside clasts and actinolite alteration. Fine grained actinolite crystals present. Minor disseminated Po. Minor phlogopite alteration.
West_A	A165	186.6	205.8	Ccc	GWAC	PhAc	B3	0.05		Bd	35	Medium brown greywacke sandstone with abundant actinolite selvages. Abundant phlogopite alteration. Abundant Po and Py sulphides present within actinolite selvages. Abundant Cb veinlets towards lower contact.
West_A	A165	205.8	211	Cba	VBLB	AcDi	G3	0.25	Sp			Volcaniclastic basaltic lithic breccia. Abundant diopside clasts and actinolite alteration. Fine grained actinolite crystals present. Minor disseminated Po. Minor

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
West_A	A165	211	216.9	Csu	MMAG	MgTr	N	0.50	Gr			phlogopite alteration. Finely disseminated Po within fine grained actinolite alteration. Heavily magnetite altered black serpentinite with small tremolite aggregates. Abundant Pe and Po present within tremolite aggregates and as veinlets aligned at 60 degrees to core axis. 55% magnetite, 30% serpentinite and 10% tremolite. Core tends to be slightly leached with numerous small vugs. Minor carbonate veinlets. Pepperitic lower contact.
West_A	A165	216.9	226.3	Cba	VBLB	DiAc	G2	0.05	Sp			Volcaniclastic basaltic lithic breccia. Abundant diopside clasts and actinolite alteration. Fine grained actinolite crystals present. Minor disseminated Po. Minor phlogopite alteration towards upper contact. Finely disseminated and veinlets of Po within fine grained actinolite alteration. Trace Cpy. (Actinolite Skarn).
West_A	A165	226.3	434.3	Ccc	GWAC	PhAc	B3	0.05		Bd	68	Massive to graded brown fine grained greywacke sandstone. Abundant phlogopite alteration with actinolite selvages. Minor spotted tourmaline present. Minor veinlets of Po. Minor tourmaline spotting and carbonate veinlets. Minor disrupted beds. Actinolite altered sediment tends to contain more sulphides (Po) Bd 63 at 226.8m, Bd 34 at 290m, Bd 43 at 365m, Bd 50 at 340m, Bd 68 at 320m, Bd 50 at 377m, Bd 50 at 416. EOH 434.3m

Assay Sheet																
Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Cr ppm	Sn ppm	Pt ppm	Pd ppm
West_Ave	A165	62.8	63.2	0.03	980	40	32700	100	340	11.8	1.5	23.3	10	30	<0.01	<0.01
West_Ave	A165	65.8	66.4	0.01	540	80	240	50	100	4.6	1.8	11.3	20	70	<0.01	<0.01
West_Ave	A165	106.8	107.8	-0.01	120	40	90	50	-20	1.2	1.9	4.7	10	80	<0.01	<0.01
West_Ave	A165	181.5	182.1	0.11	30	160	390	500	-20	-0.1	14.9	6.0	10	170	<0.01	<0.01
West_Ave	A165	205.8	206.8	0.06	140	30	70	-50	40	1.4	7.8	10.5	20	160	<0.01	<0.01
West_Ave	A165	211	212	0.14	120	20	1540	100	200	0.5	30.1	32.2	570	130	<0.01	<0.01
West_Ave	A165	212	213	0.17	110	20	7980	50	340	1.9	21.1	47.1	980	370	<0.01	<0.01
West_Ave	A165	213	214	0.21	360	20	11300	50	520	6.7	9.1	60.2	1340	1040	<0.01	<0.01
West_Ave	A165	214	215	0.16	360	41	1470	50	400	5.6	12.7	47.6	950	300	<0.01	<0.01
West_Ave	A165	215	216	0.20	370	20	1900	50	480	7.6	10.4	56.6	900	1020	<0.01	<0.01
West_Ave	A165	216	217.3	0.18	350	10	11400	50	420	6.6	16.1	46.7	920	410	<0.01	<0.01
West_Ave	A165	217.3	218.1	0.04	40	20	450	-50	60	0.1	14.6	12.9	150	220	<0.01	<0.01
West_Ave	A165	218.1	219	0.04	50	30	310	-50	40	0.1	11.9	12.0	120	220	<0.01	<0.01
West_Ave	A165	219	220	0.03	20	30	200	-50	40	-0.1	11.3	11.4	160	250	<0.01	<0.01
West_Ave	A165	220	221	0.02	40	20	80	50	-20	0.1	6.8	6.0	20	180	<0.01	<0.01
West_Ave	A165	221	222	0.02	40	10	40	50	-20	0.1	5.0	6.5	10	240	<0.01	<0.01
West_Ave	A165	222	223	0.19	680	20	90	-50	280	7.6	11.7	17.1	950	150	<0.01	<0.01
West_Ave	A165	223	224.1	0.07						1.0	11.2	11.2		180	<0.01	<0.01
West_Ave	A165	224.1	225.2	0.06						-0.1	12.0	11.2		120	<0.01	<0.01
West_Ave	A165	225.2	226.3	0.08						0.2	10.6	11.6		150	<0.01	<0.01
West_Ave	A165	401	402	0.02						0.7	5.5	9.6		60	<0.01	<0.01

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
West_A	A167	0	17.3	Pco	SAND	PhAc	A3	0.05	Sp	Bd	30	Weathered fine grained quartz sandstone. Core extremely broken with abundant iron stained joints. Disrupted and folded bedding present. Siliceous rock with puggy zones. Minor pyrite on joint faces. End of Oonah?
West_A	A167	17.3	21.2		FALT	PhAc	A3	0.05	Ft			Broken fault zone with minor phlogopite and silica alteration. Core extremely broken. Minor veinlets and disseminated Py. Core fragments tend to be silica rich. 20.9m 40cm of core loss.
West_A	A167	21.2	22.2	Ccc	GWAC	PhAc	A3	0.05	Gr			Fine grained competent greywacke sandstone. Minor veinlets and disseminated Py present. Minor actinolite and phlogopite alteration present with Py. Minor secondary carbonate veinlets. Minor diopside alteration present. Minor epidote alteration. Core tends to be leached.
West_A	A167	22.2	22.9	Ccc	SILT	Cb	A4	0.00	Gr	Bd	32	Fine grained siltstone with minor dark grey siltstone laminations. Minor carbonate veinlets present. No visible sulphides present. Minor actinolite present.
West_A	A167	22.9	25.2	Ccc	GWAC	PhAc	A3	0.05	Gr	Bd	32	Fine grained competent greywacke sandstone. Minor veinlets/blebbs of Py present. Minor actinolite alteration present with Po sulphides present. Selective phlogopite alteration along more sandy layers. Minor secondary carbonate veinlets and minor diopside alteration present. Core tends to be slightly leached. Phlogopite and actinolite alteration tends to be more intense towards lower contact. Beds tend to be extremely disrupted and folded, mottled textures.
West_A	A167	25.2	25.3		FALT	Cb	C2	0.05	Ft	Ft	45	Small carbonate puggy broken fault.
West_A	A167	25.3	47.9	Ccc	GWAC	PhAc	A3	0.05	Gr	Bd	32	Fine grained competent greywacke sandstone. Minor veinlets/blebbs of Py present. Minor actinolite alteration present with Po sulphides present. Selective phlogopite alteration along more sandy layers. Minor secondary carbonate veinlets and minor diopside alteration present. Core tends to be slightly leached. Phlogopite and actinolite alteration tends to be more intense towards lower contact. Beds tend to be extremely disrupted and folded, mottled textures. Sulphides more common towards lower contact.
West_A	A167	47.9	50.2		FALT	PhAc	G2	0.25	Sp	Lc	40	Folded/disrupted well healed fault zone. Predominantly infilled with quartz and minor diopside. Minor disseminated Po. Abundant phlogopite and actinolite altered matrix.
West_A	A167	50.2	57	Cba	VBLM	AcDi	G2	0.05	Gr	Fo	50	Light green volcaniclastic basaltic lithic medium with silty/sandy tops. Abundant

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
West_A	A167	57	72.3	Ccc	GWAC	Ph	B3	0.05		Bd	24	actinolite alteration with minor basaltic altered diopside bands. Minor phlogopite alteration within sandy layers. Abundant disseminated and veinlets of Po present.
West_A	A167	72.3	75	Cba	GABB	AcDi	G2	0.05	Sp			Light green brown massive and disrupted greywacke sandstone. Abundant actinolite and phlogopite alteration. Minor disseminated and veinlets of Po and Py within actinolite altered sediment. Fine grained sediment.
West_A	A167	75	75.7	Ccc	GWAC	Ph	B3	0.05	Ft	Bd	24	Coarse grained light green hornfels gabbro. Abundant actinolite alteration and minor phlogopite alteration. Minor disseminated Po sulphides. Minor diopside alteration of matrix. Slightly mottled texture.
West_A	A167	75.7	76.1		FALT	PhAc	B3	0.05	Ft	Ft	41	Brown massive and disrupted greywacke sandstone. Abundant phlogopite alteration. Minor disseminated and veinlets of Po and Py. Slightly diopside altered. Slightly leached core.
West_A	A167	76.1	79.9	Cba	VBLB	AcDi	G2	0.05	Gr	Fo	43	Small broken fault zone. Abundant phlogopite alteration with minor carbonate Vns
West_A	A167	79.9	126.4	Ccc	GWAC	PhAc	B2	0.25		Bd	54	Volcaniclastic basaltic lithic breccia. Abundant disrupted folded beds. Abundant diopside altered bands and actinolite altered matrix. Minor disseminated Po and Py. Minor coarse grained actinolite alteration.
West_A	A167	126.4	126.9		FALT	Cb	W	0.05	Ft	Ft	35	Light green to brown massive and disrupted greywacke sandstone. Abundant actinolite alteration and phlogopite altered sandy layers. Minor disseminated and veinlets of Po and Py within actinolite altered sediment. Fine to medium grained sediment. Sulphides more common towards lower contact.
West_A	A167	126.9	150.4	Ccc	GWAC	PhAc	B2	0.25	Sp	Bd	30	Small broken fault zone. Abundant carbonate present.
West_A	A167	150.4	152.4	Ccc	GWAC	PoMg	A2	0.50	Gr			Disrupted and graded greywacke sandstone beds. Abundant phlogopite and actinolite altered sediment and selvedge's. Abundant Po present within actinolite altered sediment. Sulphides more common towards lower contact. Minor carbonate veinlets. Minor chloritic joints. Minor Py present.
West_A	A167	152.4	248	Ccc	GWAC	PhAc	B3	0.05	Sp	Bd	47	Heavily altered coarse grained greywacke sandstone. Abundant disseminated and veinlets of magnetite and pyrrhotite. Abundant actinolite altered sediment.
												Light brown to light green disrupted and graded greywacke sandstone with silty

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
West_A	A167	248	251.5	Csu	SKSP	Mg	G2	0.25	Gr			tops. Abundant actinolite selvage's and phlogopite flooded sediments. Minor disseminated Po present commonly associated with actinolite. Minor bands of magnetite with minor Po present. Minor carbonate veining towards lower contact. Low angle contact with ultramafic.
West_A	A167	251.5	254.6	Ccc	GWAC	AcDi	G3	0.25	Gr			Light green meta-somatized serpentinite skarn. The core tends to be leached. Minor 5% disseminated and veinlets of magnetite. Minor <1% apple green zaratite alteration. Minor <5% Po and Py. Fine to coarse grained serpentinite. Minor Cb veinlets.
West_A	A167	254.6	267.5	Csu	SKSP	Mg	G2	0.25	Gr			Light green, fine to medium grained actinolite altered greywacke sandstone. Abundant Po associated with actinolite alteration. Minor diopside flooding?. Minor disseminated Mg and Py present. Minor carbonate veinlets. Minor Py present. Pepperitic type upper and lower contacts.
West_A	A167	267.5	284.1	Ccc	CCARE	MgDi	A2	0.25	Sp			Light green meta-somatized serpentinite skarn. The core tends to be leached. Minor 5% disseminated and veinlets of magnetite. Minor <1% apple green zaratite alteration. Minor <5% Po - Py. Fine to coarse grained serpentinite. Minor Cb Vns
West_A	A167	284.1	313.6	Csu	SKSP	Mg	G2	0.25	Gr			Heavily altered limestone beds. Abundant disseminated and veinlets of 15% magnetite alteration. Abundant stylonitic type features. Abundant magnetic Po veinlets. Abundant light green carbonate and diopside alteration. Minor light green Sp veinlets. Trace Pe present. Predominantly Cb beds.
West_A	A167	313.6	333.7	Cba	VBLB	AcPh	G3	0.05	Gr			Light green meta-somatized fine grained serpentinite skarn. Minor 5% disseminated, veinlets and blebbs of magnetite. Minor <1% apple green zaratite alteration. Minor <5% Po, Py and trace Pe?. Cb altered ultramafic. Trace Cpy. Trace tremolite present.
West_A	A167	313.6	333.7	Cba	VBLB	AcPh	G3	0.05	Gr			Dark green volcanoclastic basaltic lithic breccia. Abundant clasts of diopside overprinted with phlogopite alteration. Heavily altered actinolite matrix (skarned). Minor disseminated and veinlets of Po and trace Cpy. Minor chlorite alteration and apophyllite veinlets. Minor bands of magnetite alteration in heavily altered

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
West_A	A167	333.7	358.2	Cba	VBLB	AcDi	G3	0.25	Sp	Bd	43	actinolite zones. Dark green volcanoclastic basaltic lithic breccia. Abundant mottled diopside clasts within a heavily altered fine to medium grained actinolite matrix. Minor disseminated Po within heavily altered actinolite zones and tremolite zones?. Trace Cpy within disseminated and veinlets of Po. Trace Py present. Minor apophyllite alteration.
West_A	A167	358.2	360.9	Cba	SKRN	AcDi	G3	0.05	Sp	Jt	35	Dark green actinolite skarn. Minor 5% diopside clasts present. Trace sulphides Po? present. Well jointed towards lower contact. Slightly vuggy towards lower contact. 90% actinolite skarn.
West_A	A167	360.9	361	FALT			G3	0.05	Ft	Ft	80	Small broken fault zone. Core extremely broken.
West_A	A167	361	375	Cba	SKRN	AcDi	G3	0.05	Sp	Jt	35	Dark green actinolite skarn. Minor 5% diopside clasts present. Trace sulphides Po? present. Well jointed towards lower contact. 90% actinolite skarn. Minor magnetite present within bands.
West_A	A167	375	399.7	Cba	VBLB	AcPh	G3	0.25	Sp	Bd	43	Dark green volcanoclastic basaltic lithic breccia. Abundant mottled phlogopite 30% alteration and diopside 5% clasts within a heavily altered fine to medium grained 65% actinolite matrix. Minor disseminated Po within heavily altered actinolite zones and tremolite zones?. Trace Cpy within disseminated and veinlets of Po. Trace Py present.
West_A	A167	399.7	402	Cba	DOLE	PIAc	G3	0.25	Sp	Cn	72	Light green dolerite with abundant altered plagioclase laths and actinolite matrix. Abundant finely disseminated Po with lattice work. Minor Po veinlets present. Heavily actinolite altered.
West_A	A167	402	411.9	Cba	SKRN	AcPh	B3	0.25	Sp			Medium brown actinolite-phlogopite skarn. Minor 5% diopside clasts present which tend to be heavily altered. Minor disseminated and veinlets of Po and Cpy present. 50% actinolite and 50% phlogopite.
West_A	A167	411.9	417.8	Cba	DOLE	PIAc	G3	0.25	Sp	Cn	72	Light green dolerite with abundant altered plagioclase laths and actinolite matrix. Abundant finely disseminated Po with lattice work. Minor Po veinlets and trace Cpy present. Heavily actinolite altered.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
West_A	A167	417.8	429.4	Cba	SKRN	AcPh	B3	0.25	Sp			Medium brown actinolite-phlogopite altered skarn. Minor 5% diopside clasts present which tend to be Ph altered. Abundant disseminated and veinlets of Po and Cpy present. 60% actinolite and 35% phlogopite.
West_A	A167	429.4	443	Cba	VBLB	AcDi	G3	0.25	Sp			Dark green volcanoclastic basaltic lithic breccia. Abundant mottled phlogopite 30% alteration and diopside 5% clasts within a heavily altered fine to medium grained 65% actinolite matrix. Minor disseminated Po within heavily altered actinolite zones and tremolite zones?. Trace Cpy within disseminated and veinlets of Po. Trace Py present. Diopside clasts tend to be altered with phlogopite.
West_A	A167	443	449.9	Cba	SKRN	AcPh	G3	0.50	Sp			Light green actinolite altered skarn. Minor 5% diopside clasts. Abundant Po and and trace Cpy present. Trace phlogopite selvages and minor tremolite present. Minor carbonate veinlets.
West_A	A167	449.9	511.6	Ccc	GWAC	PhAc	B3	0.05	Ft	Bd	40	Medium brown, fine grained phlogopite altered greywacke sandstone. Minor actinolite selvages. Minor Po sulphides present and trace Cpy. Both graded and disrupted beds. Minor carbonate veinlets present. BCA at 464.5m is 35. BCA at 469.4m is 40. BCA at 496.5m is 50. BCA at 501.5m is 50.
West_A	A167	511.6	512.7		FALT	QzTr	W2	0.25	Ft			Small quartz fault. Abundant tremolite actinolite and quartz veining. Minor Pe?, Po and trace Cpy.
West_A	A167	512.7	549.1	Ccc	GWAC	PhAc	B3	0.05	Ft	Bd	40	Medium brown, fine grained phlogopite altered greywacke sandstone. Minor actinolite selvages. Minor Po sulphides present and trace Cpy. Both graded and disrupted beds. Minor carbonate veinlets present. BCA at 507.4m is 26. BCA at 531.8m is 24. BCA at 534.5m is 20. EOH 549.1m

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Cr ppm	Sn ppm	Strat	Rock
West_Ave	A167	114.6	115.6	0.06	70	-10	80	-50	80	1.0	10.4	14.5	270	180		
West_Ave	A167	118.6	119.6	0.05	260	-10	40	-50	140	3.2	6.2	13.9	20	80		
West_Ave	A167	123.2	124.2	0.04	260	-10	30	-50	140	3.5	7.1	16.7	20	50		
West_Ave	A167	150.4	151.4	0.06	40	-10	90	-50	140	0.7	7.3	22.5	30	110		
West_Ave	A167	151.4	152.4	0.07	40	-10	100	50	140	0.8	6.9	24.2	30	70		
West_Ave	A167	154.2	155.2	0.03	120	10	50	-50	140	3.2	1.9	8.6	30	30		
West_Ave	A167	241.8	242.8	0.02	300	10	40	-50	60	2.0	5.8	9.4	30	70		
West_Ave	A167	247	248	0.03	130	30	1730	-50	-20	0.2	7.3	7.2	90	140		
West_Ave	A167	248	249	0.02	10	30	80	-50	-20	-0.1	9.9	4.1	200	190		
West_Ave	A167	249	250	0.01	90	150	4560	-50	-20	0.1	11.8	1.4	570	190		
West_Ave	A167	250	251	0.01	10	70	100	50	-20	-0.1	12.5	1.3	540	140		
West_Ave	A167	251	252	0.08	70	20	130	50	20	0.4	5.9	8.2	980	100		
West_Ave	A167	252	253	0.13	300	10	340	-50	120	1.3	7.2	15.3	3400	80		
West_Ave	A167	253	254	0.19	730	20	190	-50	160	0.4	7.0	16.2	1040	50		
West_Ave	A167	254	255	0.24	300	10	90	50	160	0.8	6.3	14.7	560	60		
West_Ave	A167	255	256	0.13	80	30	60	-50	20	0.5	9.0	7.5	290	190		
West_Ave	A167	256	257	0.17	110	30	80	50	-20	0.6	11.2	4.1	380	180		
West_Ave	A167	257	258	0.19	90	20	150	50	-20	0.7	11.7	4.0	1640	200		
West_Ave	A167	258	259	0.16	120	40	110	50	-20	0.6	11.5	3.9	990	190		
West_Ave	A167	259	260	0.10	140	40	200	100	-20	0.4	7.8	3.0	2100	200		
West_Ave	A167	260	261	0.06	50	70	90	50	-20	-0.1	7.6	3.6	320	220		
West_Ave	A167	261	262	0.07	70	30	80	100	-20	0.1	8.5	2.7	150	220		
West_Ave	A167	262	263	0.12	130	30	240	250	-20	0.5	8.4	5.8	1410	200		
West_Ave	A167	263	264	0.04	50	20	120	50	-20	0.1	9.6	3.2	780	190		
West_Ave	A167	264	265	0.06	60	40	80	150	-20	-0.1	9.9	1.0	210	180		
West_Ave	A167	265	266	0.09	60	40	110	50	-20	0.1	8.2	2.5	600	220		
West_Ave	A167	266	267	0.06	50	20	80	50	-20	0.1	9.6	1.5	680	200		
West_Ave	A167	267	268	0.04	50	20	90	50	-20	-0.1	9.2	3.2	260	240		
West_Ave	A167	268	269	0.10	20	-10	380	50	40	-0.1	11.4	11.6	1220	210		
West_Ave	A167	269	270	0.13	60	-10	440	50	120	0.4	11.9	18.9	1800	180		
West_Ave	A167	270	271	0.16	280	-10	3700	50	140	1.8	10.2	14.2	1550	200		
West_Ave	A167	271	272	0.06	70	10	270	50	-20	0.1	12.0	5.7	700	250		
West_Ave	A167	272	273	0.10	40	-10	490	50	40	0.1	11.8	11.1	850	280		
West_Ave	A167	273	274	0.11	50	10	170	100	40	0.2	9.4	8.6	710	230		

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Cr ppm	Sn ppm	Strat	Rock
West_Ave	A167	274	275	0.09	70	10	160	50	20	0.2	9.7	6.6	600	230		
West_Ave	A167	275	276	0.21	210	-10	170	50	100	0.6	9.8	8.7	550	220		
West_Ave	A167	276	277	0.33	2160	-10	910	50	240	1.4	10.4	10.6	900	170		
West_Ave	A167	277	278	0.10	190	-10	670	50	40	0.2	11.8	6.9	610	290		
West_Ave	A167	278	279	0.28	180	-10	230	50	140	0.8	14.7	13.0	1370	140		
West_Ave	A167	279	280	0.20	480	-10	700	50	100	0.6	11.9	8.9	1080	250		
West_Ave	A167	280	281	0.11	130	-10	150	50	20	0.3	11.1	6.8	750	260		
West_Ave	A167	281	282	0.11	390	-10	170	50	100	1.9	11.9	14.2	1050	250		
West_Ave	A167	282	283	0.10	570	10	1340	-50	100	2.2	9.9	7.8	750	250		
West_Ave	A167	283	284	0.15	640	20	4390	-50	100	2.1	7.8	6.6	300	260		
West_Ave	A167	284	285	0.24	790	20	550	-50	180	4.1	5.9	10.5	300	240		
West_Ave	A167	285	286	0.07	310	50	90	-50	20	1.1	6.7	5.4	220	260		
West_Ave	A167	286	287	0.06	270	20	50	50	-20	0.9	7.8	2.2	160	210		
West_Ave	A167	287	288	0.02	110	10	70	50	-20	0.3	7.8	4.7	300	240		
West_Ave	A167	288	289	0.02	100	20	90	-50	-20	0.3	9.0	1.7	180	230		
West_Ave	A167	289	290	0.03	100	-10	80	50	80	0.7	4.2	20.6	1640	230		
West_Ave	A167	290	291	0.01	70	10	40	50	-20	0.1	6.5	0.6	340	260		
West_Ave	A167	291	292	0.02	190	20	50	50	-20	0.4	7.7	3.2	400	280		
West_Ave	A167	292	293	0.03	340	20	60	50	-20	0.8	5.4	6.8	520	260		
West_Ave	A167	293	294	0.08	970	30	90	-50	80	2.3	7.1	6.4	260	210		
West_Ave	A167	294	295	0.03	460	30	50	-50	20	1.0	7.2	5.0	160	210		
West_Ave	A167	295	296	0.03	210	40	50	50	-20	0.4	6.8	4.5	190	240		
West_Ave	A167	296	297	0.05	320	30	40	50	-20	1.0	7.0	5.5	240	260		
West_Ave	A167	297	298	0.02	170	20	40	50	-20	0.3	9.2	1.8	160	230		
West_Ave	A167	298	299	0.04	310	40	80	-50	-20	0.6	9.6	1.9	130	220		
West_Ave	A167	299	300	0.02	170	40	80	50	-20	0.2	9.5	1.6	120	210		
West_Ave	A167	300	301	0.02	150	100	140	50	-20	0.2	10.0	1.2	290	190		
West_Ave	A167	301	302	0.03	210	50	150	-50	-20	0.3	9.9	1.5	640	210		
West_Ave	A167	302	303	0.10	740	30	190	50	20	1.3	8.9	3.5	1180	190		
West_Ave	A167	303	304	0.09	870	30	90	50	80	2.0	5.6	8.0	2160	270		
West_Ave	A167	304	305	0.05	440	50	90	50	80	1.1	2.1	11.9	1130	310		

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
West_A	A168	0	5.7	Cba	CLAY	Ge	O3	0.00	Gr			Bright orange clay. Core extremely broken with abundant iron stained joints. No visible sulphides present. Minor goethite present.
West_A	A168	5.7	19.4	Cba	VBLB	AcDi	G3	0.25	Gr	Fo	45	Medium green volcanoclastic basaltic lithic breccia. Abundant actinolite and diopside alteration with minor phlogopite alteration. Minor sulphides associated with actinolite alteration/veins likely to be Py and Po. Minor carbonate veinlets with minor Py and Po present.
West_A	A168	19.4	24.6	Cbg	GABB	AcPI	G3	0.05	Sp			Dark green dolerite. Abundant actinolite alteration with minor plagioclase alteration. Actinolite alteration tends to be fairly fine grained while the plagioclase alteration tends to be coarse grained. Maybe some fine grained epidote alteration. Minor disseminated Po sulphides.
West_A	A168	24.6	48.2	Cba	VBLB	AcDi	G3	0.05	Sp	Fo	44	Medium green volcanoclastic basaltic lithic breccia with sandy layers. Abundant actinolite and diopside alteration with minor phlogopite alteration of sandy sediment. Minor sulphides associated with actinolite alteration/veins likely to be pyrite and Po. Minor carbonate veinlets with minor Py and Po present. Diopside alteration tends to be more intense towards lower contact. Lower contact is at 44.
West_A	A168	48.2	83.4	Ccc	GWAC	PhAc	B3	0.05		Bd	30	Medium brown fine to medium grained disrupted greywacke sandstone beds with silty tops/beds. Abundant actinolite selvages present and flooded phlogopite alteration. Minor dark green tremolite veinlets present. Minor sulphides present Po? Minor calcite veinlets within small broken zone between 72.6m and 73.2m. Abundant disseminated and veinlets of magnetite present.
West_A	A168	83.4	83.5		FALT	PoPy	G3	10.00	Ft	Ft	65	Small fault with abundant Po and Py. Abundant carbonate present and apophyllite crystals.
West_A	A168	83.5	87.3	Cba	VBLM	DiAc	C3	0.25	Gr			Cream/pale green volcanoclastic basaltic lithic medium. Abundant diopside and pale green actinolite alteration and selvages. Abundant veinlets and disseminated Po and Py sulphides present.
West_A	A168	87.3	100.4	Cba	SKRN	Ac	G3	0.25	Gr			Light Pale green actinolite altered skarn with sandy layers. Abundant actinolite replacement with both veinlets of Po and Py. Sandy layers are weakly phlogopite altered. Some actinolite veins/selvages tend to have coarse crystal present.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
West_A	A168	100.4	108.8	Cba	SKRN	Ac	G3	0.25	Gr			Pale green medium grained actinolite skarn. Abundant veinlets and disseminated Po and Py sulphides present. Some minor brown phlogopite alteration. Minor tourmaline and diopside present. Actinolite flooded sediment.
West_A	A168	108.8	126.8	Cba	VBLB	AcDi	G3	0.25	Sp	Bd	55	Medium green volcanoclastic basaltic lithic breccia with sandy tops. Abundant diopside alteration of clasts with an actinolite altered matrix. Actinolite alteration has altered/replace the sandy sediment. Minor phlogopite alteration of sandy layers. Abundant disseminated and veinlets of Po present. Trace Py and Cpy present. Sulphides more common within actinolite altered sediment. 40% diopside, 50% actinolite, 10% phlogopite alteration.
West_A	A168	126.8	161.7	Ccc	GWAC	PhAc	B3	0.05	Sp	Bd	44	Medium brown disrupted to massive phlogopite altered greywacke sandstone with silty tops. Abundant actinolite selvages with sulphides present. More phlogopite alteration within sandy sediment while finer sediment tends to be less altered.
West_A	A168	161.7	162.1	Cba	VBLB	DiAc	G2	0.05	Sp			Light pale green volcanoclastic basaltic lithic breccia. Abundant diopside alteration with fine grained actinolite flooding. Trace Po present.
West_A	A168	162.1	237.8	Ccc	GWAC	PhAc	B3	0.05	Sp	Bd	44	Medium brown massive to disrupted phlogopite altered greywacke sandstone with silty tops. Abundant actinolite selvages with Po, Cpy and Pe?. More phlogopite alteration within sandy sediment while finer sediment tends to be less altered. Minor single diopside clasts with actinolite alteration present towards top of bed.
West_A	A168	237.8	240.9	Ccc	GWAC	PhAc	G2	0.05	Gr			Brecciated greywacke sandstone with abundant carbonate and sandstone clasts. Minor phlogopite and actinolite alteration. Abundant carbonate veinlets present. Minor diopside and sericite alteration present. Minor trace sulphides with actinolite altered sediment. Pepperritic lower contact?
West_A	A168	240.9	253.2	Cba	GABB	AcPh	G2	0.25	Gr			Heavily altered pale green medium to coarse grained gabbro. Abundant Po and minor Py present within actinolite alteration. Minor diopside, phlogopite and calcite veinlets. Pyroxene needles present but matrix has been total replace.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
West_A	A168	253.2	293.7	Cba	SKRN	Di	G2	0.25	Sp			Small 5cm thick Po veins present at lower contact. Minor magnetite present. Heavily altered pale green diopside skarn. Abundant magnetite and tremolite veinlets with minor calcite. Minor actinolite alteration. Minor disseminated and veinlets of Po present with trace Cpy. Trace mica present. Minor phlogopite present.
West_A	A168	293.7	333.2	Ccc	GWAC	PhAc	G2	0.05	Sp			Light brown to pale green greywacke sandstone. Abundant phlogopite flooding and actinolite selvages. Sandy layers tend to be more phlogopite altered. Minor diopside alteration towards lower contact 324m-333.1m Trace Po present. Predominately massive beds with minor grading of sediment.
West_A	A168	333.2	334	Csu	SKSP	Tr	G1	0.25	Gr			Meta-somatized serpentinite skarn. Pale light green medium grained ultramafic. Abundant veinlets of Po. Minor diopside and actinolite selvages present. Low angle upper contact at 10 degrees.
West_A	A168	334	335.6	Cba	SKRN	AcDi	G2	1.00	Sp			Medium green actinolite skarn. Abundant Po sulphides rimed with chalcopyrite. Sulphides commonly within actinolite and calcite altered matrix. Minor tremolite and talc alteration. Low angle lower contact 10 degrees.
West_A	A168	335.6	338.5	Csu	SKSP	Tr	G1	0.50	Sp			Meta-somatized serpentinite skarn. Pale light green medium grained ultramafic. Abundant veinlets of Po within limestone and tremolite veins. Minor diopside and actinolite selvages present. Lower contact at 40 degrees. Slightly brecciated towards lower contact.
West_A	A168	338.5	373.4	Ccc	CARB	MgTr	A3	0.25	Sp	Fo	51	Medium grey heavily altered limestone beds. Abundant disseminated and veinlets of magnetite. Minor tremolite alteration with minor zones of Po mineralisation. Minor Sp veinlets. Minor talc present in phlogopite altered mudstone clasts?. Foliation present.
West_A	A168	373.4	387.5	Csu	SKSP	TrCb	G1	0.25	Sp			Meta-somatized serpentinite skarn. Pale light green medium grained ultramafic. Minor veinlets of Po within limestone and tremolite veins. Abundant carbonate alteration. Minor zaratite spotting. Undulating sharp lower contact at 43 degrees.
West_A	A168	387.5	389.1	Ccc	CARB	MgTr	A3	0.25	Sp			Medium grey heavily altered limestone beds. Abundant disseminated and veinlets of magnetite. Minor tremolite alteration with minor zones of Po.

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
West_A	A168	389.1	398.2	Csu	SERP	DiTr	A3	0.25	Gr	Fo	53	Minor light green Sp veinlets and fine grained talc present. Mottled black serpentinite and light green serpentinite skarn. Abundant diopside and tremolite alteration 30%. Abundant magnetite veinlets 30%. Black serpentinite 35%. Trace sulphides present.
West_A	A168	398.2	479.5	Csu	SERP	DiSc	N	0.05				Black serpentinite with abundant fine spotted diopside alteration. Finely disseminated magnetite present. Trace sulphides within rare small tremolite veinlets. Abundant fine vesicular chrysotile joints present. Minor serpentine veinlets present. EOH at 479.5m.

Assay Sheet

Project	BHID	From m	To m	Split	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Cr ppm	Strat	Rock
West_Ave	A168	10.5	11.1		0.06	n/a	10	90	-50	200	2.30	8.2	14.3	n/a		
West_Ave	A168	93.4	94.4		0.03	n/a	20	50	-50	200	4.10	4.3	11.5	n/a		
West_Ave	A168	96.7	97.7		0.02	n/a	40	60	-50	80	1.50	8.1	10.4	n/a		
West_Ave	A168	97.7	98.7		0.02	n/a	10	30	-50	120	2.20	8.4	12.2	n/a		
West_Ave	A168	103	104		0.03	n/a	10	20	-50	120	1.80	10.1	12.6	n/a		
West_Ave	A168	104	105		0.03	n/a	<10	20	-50	100	1.70	10.0	11.6	n/a		
West_Ave	A168	105	106		0.04	n/a	<10	60	-50	240	4.10	6.7	20.2	n/a		
West_Ave	A168	114.6	115.6		0.05	n/a	30	20	-50	80	1.50	7.5	10.6	n/a		
West_Ave	A168	117.6	118.6		0.07	n/a	20	30	-50	100	1.70	7.9	11.0	n/a		
West_Ave	A168	179.1	179.9		0.02	n/a	10	50	50	80	1.40	3.5	14.5	n/a		
West_Ave	A168	189	189.6		0.04	n/a	<10	140	50	160	1.60	7.2	30.7	n/a		
West_Ave	A168	241	242		0.03	40	20	130	-50	-20	0.20	7.7	8.2	10		
West_Ave	A168	242	243		0.05	40	20	150	-50	40	0.50	7.4	13.0	10		
West_Ave	A168	243	244		0.04	30	20	160	-50	40	0.70	8.5	11.4	10		
West_Ave	A168	244	245		0.03	20	30	120	-50	20	0.30	8.2	9.2	10		
West_Ave	A168	245	246		0.03	20	20	80	-50	-20	0.70	8.1	8.6	10		
West_Ave	A168	246	247		0.03	30	20	160	50	-20	0.10	7.7	8.7	10		
West_Ave	A168	247	248		0.03	30	30	290	-50	20	0.20	7.4	10.7	10		
West_Ave	A168	248	249		0.01	30	30	160	-50	20	0.20	5.9	11.4	10		
West_Ave	A168	249	250		0.01	50	30	230	50	20	0.30	7.8	9.5	10		
West_Ave	A168	250	251		0.02	80	<10	130	50	20	0.40	7.7	9.9	10		
West_Ave	A168	251	252		0.02	70	10	120	-50	20	0.50	6.7	10.8	-10		
West_Ave	A168	252	253		0.02	50	20	440	50	-20	0.20	7.8	8.8	20		
West_Ave	A168	253	254		0.06	480	120	410	100	200	3.40	10.1	11.7	30		
West_Ave	A168	254	255		0.04	160	20	320	-50	60	0.80	9.6	9.7	10		
West_Ave	A168	255	256		0.05	170	20	940	-50	80	0.80	9.5	13.1	10		
West_Ave	A168	256	257		0.05	170	80	590	-50	140	1.10	12.3	21.3	90		
West_Ave	A168	257	258		0.05	210	20	670	-50	140	1.20	11.8	20.0	70		
West_Ave	A168	258	259		0.04	450	80	1540	-50	60	1.30	11.4	7.4	20		
West_Ave	A168	259	260		0.05	280	100	2260	50	60	1.00	10.1	9.7	40		
West_Ave	A168	260	261		0.05	300	70	2100	-50	40	0.80	10.0	6.6	20		
West_Ave	A168	261	262		0.03	160	130	1880	50	20	0.40	11.1	7.4	30		
West_Ave	A168	262	263		0.05	40	80	250	100	40	-0.01	12.4	12.5	30		

Assay Sheet

Project	BHID	From m	To m	Split	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Cr ppm	Strat	Rock
West_Ave	A168	263	264		0.04	40	60	270	50	100	-0.01	14.3	19.6	50		
West_Ave	A168	264	265		0.05	40	40	980	100	100	-0.01	13.9	18.6	60		
West_Ave	A168	265	266		0.03	310	20	1360	50	-20	-0.01	11.4	7.7	70		
West_Ave	A168	266	267		0.03	60	50	1180	50	20	-0.01	11.2	8.9	20		
West_Ave	A168	267	268		0.05	40	20	1040	100	20	0.10	10.8	9.9	20		
West_Ave	A168	268	269		0.05	50	30	2310	-50	100	0.60	10.5	14.1	30		
West_Ave	A168	269	270		0.03	110	30	1750	-50	-20	0.20	9.7	5.8	40		
West_Ave	A168	270	271		0.04	150	30	1320	50	20	0.40	8.6	5.6	30		
West_Ave	A168	271	272		0.05	220	30	1410	50	60	0.60	9.3	8.9	50		
West_Ave	A168	272	273		0.03	70	50	600	50	20	0.10	10.2	7.9	40		
West_Ave	A168	273	274		0.04	70	10	340	50	20	0.20	9.2	8.3	50		
West_Ave	A168	274	275		0.03	40	20	760	50	-20	0.10	10.3	5.4	20		
West_Ave	A168	275	276		0.05	40	120	560	100	20	0.10	10.6	9.4	30		
West_Ave	A168	276	277		0.05	70	90	750	100	100	0.10	11.4	15.7	50		
West_Ave	A168	277	278		0.16	1450	90	1830	50	260	2.10	10.6	11.2	40		
West_Ave	A168	281.9	282.9		0.05	40	10	240	100	100	-0.01	12.1	17.7	70		
West_Ave	A168	284	285		0.05	710	30	520	-50	200	3.70	9.5	10.8	30		
West_Ave	A168	285	286		0.04	450	30	120	-50	100	2.80	9.5	11.4	30		
West_Ave	A168	286	287		0.04	470	40	900	-50	80	2.00	10.3	9.1	50		
West_Ave	A168	290.7	291.7		0.08	310	160	320	50	160	1.70	9.6	11.5	80		
West_Ave	A168	291.7	292.7		0.06	450	80	340	-50	180	3.40	11.3	14.5	80		
West_Ave	A168	292.7	293.7		0.08	740	20	50	-50	240	5.60	7.3	14.7	40		
West_Ave	A168	333.2	334.2		0.08	260	90	740	50	20	0.80	10.7	4.5	180		
West_Ave	A168	334.2	335.2		0.28	1770	520	1460	50	300	4.50	9.1	13.5	650		
West_Ave	A168	335.2	336.2		0.04	220	40	2980	-50	-20	0.50	11.6	4.0	390		
West_Ave	A168	336.2	337.2		0.04	220	30	170	50	-20	0.80	10.2	2.7	270		
West_Ave	A168	337.2	338.2		0.12	320	<10	110	-50	40	1.60	12.8	6.6	670		
West_Ave	A168	338.2	339.2		0.10	30	<10	110	-50	20	0.20	11.8	9.6	580		
West_Ave	A168	339.2	340.2		0.09	30	<10	110	-50	20	0.30	12.2	8.1	300		
West_Ave	A168	340.2	341.2		0.07	20	10	100	-50	20	-0.01	11.8	8.3	250		
West_Ave	A168	341.2	342.2		0.09	30	160	320	-50	20	0.30	12.1	8.2	720		

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Avebury	A173	0	7.6		CLAY	Cy	O	0.00				Very poor core recovery, orange weathered clay.
East_Avebury	A173	7.6	15.2	Cba	VBLM	AcDi	G3	0.00				Pale green and cream, intensely altered basaltic volcanoclastic sandstone and siltstone. Pervasive strong actinolite-diopside alteration. Disrupted and brecciated. Clay and limonite altered jts.
East_Avebury	A173	15.2	34.1	Cba	VBLM	AcDi	G3	0.00				Pale green and cream, intensely altered basaltic volcanoclastic sandstone and siltstone. Pervasive strong actinolite-diopside alteration. Disrupted and brecciated. Strong metasomatism.
East_Avebury	A173	34.1	45.9	Cba	VBLM	AcDi	G3	0.10		Bd	40	Pale green and cream, intensely altered basaltic volcanoclastic sandstone and siltstone. Pervasive strong actinolite-diopside alteration. Disrupted and brecciated. Strong metasomatism. Remnant phlogopite altered greywacke and siltstone. Minor Po veins.
East_Avebury	A173	45.9	46.4		FALT	AcCy	G2	0.00		Ft	30	Puggy brittle fault
East_Avebury	A173	46.4	72.6	Cba	VBLM	AcDi	G3	0.00				Pale green and cream, intensely altered basaltic volcanoclastic sandstone and siltstone. Pervasive strong actinolite-diopside alteration. Disrupted and brecciated. Strong metasomatism.
East_Avebury	A173	72.6	74.2		FALT	AcCy	G2	0.00		Ft	30	Puggy brittle fault. Broken core, poor ground conditions.
East_Avebury	A173	74.2	136.3	Cba	VBLM	AcDi	G3	0.00				Pale green and cream, intensely altered basaltic volcanoclastic sandstone and siltstone. Pervasive strong actinolite-diopside alteration. Disrupted and brecciated. Strong metasomatism.
East_Avebury	A173	136.3	137.4		FALT	AcCy	G2	0.00		Ft	10	Puggy brittle fault. Broken core, poor ground conditions.
East_Avebury	A173	137.4	143	Ccc	GWAC	PhAc	B4	0.00		Ft	10	Massive, feldspar-lithic volcanoclastic greywacke. Pervasive phlogopite alteration. Broken and jointed with numerous calcite filled veins.
East_Avebury	A173	143	143.6		FALT	AcCy	G2	0.00		Ft	10	Puggy brittle fault. Broken core, poor ground conditions.
East_Avebury	A173	143.6	147.7	Ccc	GWAC	PhAc	B4	0.00		Ft	10	Massive, feldspar-lithic volcanoclastic greywacke. Pervasive phlogopite alteration. Broken and jointed with numerous calcite filled veins.
East_Avebury	A173	147.7	213.9	Cba	VBLM	AcDi	G3	0.10		Bd	40	Pale green and cream, intensely altered basaltic volcanoclastic sandstone and siltstone. Pervasive strong actinolite-diopside alteration. Disrupted and brecciated. Strong metasomatism. Remnant phlogopite altered greywacke and siltstone. Minor Tourmaline veins.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Avebury	A173	213.9	214.8		FALT	CyAc	A2	0.00	Ft	Ft	20	Puggy brittle fault. Broken core, poor ground conditions.
East_Avebury	A173	214.8	216.9	Cba	VBLM	AcDi	G3	0.00				Pale green and cream, intensely altered basaltic volcanoclastic sandstone and siltstone. Pervasive strong actinolite-diopside alteration. Disrupted and brecciated. Strong metasomatism. Minor low angle faulting.
East_Avebury	A173	216.9	217.4		FALT	Cy	A2	0.00	Ft	Ft	20	Puggy brittle fault. Broken core, poor ground conditions.
East_Avebury	A173	217.4	238	Csu	SKSP	TrDi	A2	0.50	Ft	Ft	20	Massive, pale grey, intensely metasomatised ultramafic skarn. Massive crystalline tremolite with minor diopside and mottled remnant serpentinite nodules. Disseminated and stringer magnetite. Minor coarse disseminated Pentlandite mineralisation
East_Avebury	A173	238	238.2		FALT	Cy	A2	0.00	Ft	Ft	20	Puggy brittle fault. Broken serpentinite..
East_Avebury	A173	238.2	250	Csu	SKSP	TrDi	A2	0.10	Ft			Massive, pale grey, intensely metasomatised ultramafic skarn. Massive crystalline tremolite with lesser diopside. Disseminated and stringer magnetite Rare coarse disseminated Pentlandite (0.1%).
East_Avebury	A173	250	258.8	Csu	SKSP	TrDi	A2	0.30	Gr			Massive, pale grey, intensely metasomatised ultramafic skarn. Massive crystalline tremolite with lesser diopside. Abundant (20%) disseminated and stringer magnetite. Minor (0.3%) coarse Pe disseminations.
East_Avebury	A173	258.8	261.3	Csu	MMAG	MtTr	A5	0.40	Gr			Massive black magnetite with mottled tremolite altered ultramafic skarn and minor black serpentinite. Magnetite stringers and veins. Rare coarse disseminated pentlandite.
East_Avebury	A173	261.3	266.5	Csu	SKSP	TrDi	A2	0.30	Gr			Massive, pale grey, intensely metasomatised ultramafic skarn. Massive crystalline tremolite and diopside. Minor zaratite disseminations. Sparse disseminated tourmaline. Minor veins of green actinolite?
East_Avebury	A173	266.5	273.7	Csu	MMAG	MtTr	A5	0.40	Ft	Ft	40	Massive black magnetite with mottled tremolite altered ultramafic skarn and minor black serpentinite. Magnetite stringers and veins. Rare coarse disseminated pentlandite.
East_Avebury	A173	273.7	300.9	Cba	VBLM	AcEp	G	0.00	Gr			Pale green and cream, intensely altered basaltic volcanoclastic sandstone and siltstone. Pervasive strong actinolite-diopside alteration. Disrupted and brecciated. Strong metasomatism. Also axinite, epidote and tourmaline.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Avebury	A173	300.9	307.5	Cba	SSLT	DiEp	A4	0.50		Bd	50	Laminated volcanoclastic siltstone, intensely altered and metasomatised, indurated, 0.5-1% pyrrhotite and pyrite veins and disseminations, hydrothermally brecciated
East_Avebury	A173	307.5	308.8	Csu	SKSP	DiMt	A2	2.00		Jt	30	Pale green-grey, intensely altered and metasomatised ultramafic skarn. Patchy magnetite, strong diopside and actinolite alteration. Minor epidote and axinite. Minor disseminated pyrrhotite, pyrite and pentlandite. EOH

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
Avebury	A174	0	1.6		LOSS							No core recovery
Avebury	A174	1.6	3	Ogl	CARB	CaLi	A1		Bk	Fo	45	Massive stylolitic limestone, Gordon Group, moderately weathered, limonitic infill
Avebury	A174	3	4.7		LOSS							No core recovery
Avebury	A174	4.7	7.7	Ogl	CARB	Ca	A1		Bk	Fo	50	Massive stylolitic limestone, Gordon Group, large cavities, dissolution karsts
												Poor core recovery, 1.4m loss.
Avebury	A174	7.7	8		CLAY		O4		Bk			Puggy clay, karst infill
Avebury	A174	8	9.2	Ogl	CARB	Ca	A1		Bk	Fo	50	Massive stylolitic limestone, Gordon Group, calcite veining
Avebury	A174	9.2	12.4	Ogl	CLAY		A1		Bk	Fo	60	Deeply weathered, broken, possibly faulted Gordon Limestone, calcite veining and 0.5m core loss, stylolitic
Avebury	A174	12.4	16.2	Ogl	CARB	Ca	A3		Bk	Fo	60	Stylolitic, Gordon Limestone, pale grey, massive, 2-5% Ca veins
Avebury	A174	16.2	18	Ogl	CARB	CaLi	O4		Gr	Fo	60	Deeply weathered, broken, Gordon Limestone, calcite veining, stylolitic
Avebury	A174	18	20.6	Ogl	CARB	Ca	A3		Ft	Fo	60	Minor patches of strong weathering, pale grey Gordon Limestone
Avebury	A174	20.6	24.3		FALT	Cy	O4		Ft	Ft	35	Deeply weathered puggy brittle fault, significant core loss
Avebury	A174	24.3	34.7	Ogl	CARB	Ca	A3		Bk	Fo	25	Pale grey, massive Gordon Limestone, stylolitic fabric, numerous dissolution karst features with puggy clay infill
Avebury	A174	34.7	39.5	Ogl	CARB	CyLi	O4		Gr	Bd	40	Very broken, intensely weathered, carbonate and fissile siltstone, numerous karst features with puggy clay infill, also brittle puggy fault zones
Avebury	A174	39.5	40.5	Ogl	CARB	CaLi	A3		Ft	Fo	80	Pale grey, massive Gordon Limestone, stylolitic fabric
Avebury	A174	40.5	41.2		FALT	CyLi	O4		Ft	Ft	80	Deeply weathered puggy brittle fault, significant core loss
Avebury	A174	41.2	52.7	Ogl	CARB	Ca	A3		Bk			Pale grey, massive Gordon Limestone, stylolitic fabric, numerous dissolution karst features with puggy clay infill
Avebury	A174	52.7	73.7		CLAY	Cy	O4			Bd	45	Clay, karst infill, very poor recoveries, Quaternary? bedding in karst fill
Avebury	A174	73.7	76.5		FALT	CyLi	O4		Ft	Ft	80	Deeply weathered conglomerate, faulted, intense limonite alteration
Avebury	A174	76.5	93.3	Cdg	CONG	Ht	A3		Ft			Massive polymictic conglomerate, clasts of chert, sandstone and possible volcanics, lightly haematised
Avebury	A174	93.3	93.5		FALT	Py	A2	2.00	Ft	Ft		Leached vuggy fault. Relatively well formed pyrite grown in fault.
Avebury	A174	93.5	115.6	Cdg	CONG	Ht	A3		Ft			Massive polymictic conglomerate, clasts of chert, sandstone and possible volcanics, lightly haematised

Allegiance Metals Drill Log													
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description	
Avebury	A174	115.6	118.7		FALT	CyCh	G4		Ft			Fault, poor core recovery, possibly cavity? some clay.	
Avebury	A174	118.7	138	Cdg	CONG	ChSi	A3			Bd	70	Polymictic conglomerate and laminated siltstone and sandstone, some graded beds, younging up hole. Increasing silicification downhole. Some quartz and pyrite veining, increasing downhole. Chlorite alteration in matrix.	
Avebury	A174	138	140	Oc	CONG	ChEp	G3		Gr			Pale green, intensely altered conglomerate. Pervasive mottled texture destructive chlorite/epidote? alteration, relict siliceous clasts	
Avebury	A174	140	141.2	Oc	SAND	ChSe	A3		Ft			Massive pale green grey, chlorite-sericite altered quart-feldspar sandstone	
Avebury	A174	141.2	141.8		FALT	Li	B4		Bk			Brittle fault, moderately weathered with limonite alteration, core heavily broken	
Avebury	A174	141.8	143.5	Oc	CONG	ChEp	G3		Ft		90	Pale green, intensely altered conglomerate. Pervasive mottled texture destructive chlorite/epidote? alteration, relict siliceous clasts	
Avebury	A174	143.5	146.9	Oc	CONG	ChEp	A2		Gr			Massive pale grey polymictic conglomerate, clasts of chert, sandstone and possible volcanics (chlorite/sericite altered), minor sandstone beds	
Avebury	A174	146.9	151.7	Oc	SAND	Ch	A2		Ft	Bd	65	Pale grey siliceous sandstone, minor calcite veining and minor chlorite alteration	
Avebury	A174	151.7	153.2		FALT	ChSi	A3		Ft			Brittle-ductile fault, silicified and chlorite altered, mid green-grey, minor calcite veining	
Avebury	A174	153.2	157.5	Cbg	GABB	ChAc	G4		Gr			Massive dark green feldspar phyric gabbro, pervasive chlorite-actinolite alteration, late calcite vein breccia	
Avebury	A174	157.5	160	Cbg	SKRN	DiAc	A2		Ft			Pale grey to cream skarn, pervasive diopside actinolite alteration, stylonitic tourmaline ? veins, minor zaratite	
Avebury	A174	160	161.1		FALT	ChSi	G4		Ft			Mylonitic brittle-ductile fault zone, silicified and chlorite altered, minor soapy talcose green mineral	
Avebury	A174	161.1	174.6	Cba	SILT	PhAc	B3		Ft	Bd		Laminated siltstone, pervasive phlogopite alteration, overprinted with actinolite-diopside-calcite alteration, brecciated, contorted bedding	
Avebury	A174	174.6	174.9		FALT	Ch	A3		Ft			Brittle fault, minor talc ? alteration, core heavily broken	
Avebury	A174	174.9	178.9	Ccc	SHAL	TcCa	N		Ft			Brecciated black shale, green talc veins and minor calcite. Core is heavily broken.	

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A174	178.9	193.8	Ccarb	CARB	Ca	A1	0.20				Crystalline stylolitic limestone ? 0.2-0.4% disseminated pyrrhotite Disseminated magnetite throughout.
Avebury	A174	193.8	194.5	Csu	SKSP	TrCa	G2	5.00	Ft	Ft	45	Pale green skarnified sepeintinite, pervasive tremolite alteration minor magnetite, phyrrotite and pentlandite
Avebury	A174	194.5	207.4	Ccc	GWAC	Ph	B3		Sp	Bd	45	Massive feldspar lithic greywacke and siltstone pervasive phlogopite alteration, well bedded
Avebury	A174	207.4	233	Cdg	CONG	Ac	B3					Polymictic matrix supported conglomerate, clasts of sandstone, chert and basalt. Actinolite alteration and late carbonate veining.
Avebury	A174	233	237	Cdg	CONG	Ac	A3		Sp			Dark green polymitic matrix supported lithic conglomerate, intensely actinolite altered
Avebury	A174	237	243.1	Cba	VBLM		G2					Intensely altered brecciated and disrupted volcanoclastic lithic sandstone, strong actinolite alteration with diopside overprint
Avebury	A174	243.1	248.1	Ccc	GWAC	PhAc	B2		Gr	Bd	45	Intensely phlogopite altered fedlspar lithic greywacke and siltstones. Well bedded but bedding disrupted. Overprinting actinolite alteration increasing downhole.
Avebury	A174	248.1	254	Cba	VBLM	AcPh	B2		Ft			Intensely altered brecciated and disrupted volcanoclastic lithic sandstone, strong actinolite alteration. Patchy strong phlogopite alteration.
Avebury	A174	254	260.3	Cdg	CONG	AcDi	A3		Sp			Dark green polymitic matrix supported lithic conglomerate, intensely actinolite altered with overprinting diopside alteration
Avebury	A174	260.3	267.1	Cba	SILT	PhAc	B2		Sp	Bd	45	Pale brown and green volcanoclastic sandstone and siltstone. Pervasive phlogopite alteration, with patchy intense actinolite alteration and diopside overprinting. Generally well bedded to laminated, bedding strongly disrupted and brecciated.
Avebury	A174	267.1	268.5	Cba	GWAC	Di	A2		Gr	Bd	30	Massive pale grey feldspar lithic greywacke. Relatively unaltered. Brecciated in places. Moderately hornfelsed.
Avebury	A174	268.5	278.1	Cba	VBLM	AcDi	A3		Sp			Pale grey to dark grey, intensely altered basaltic volcanoclastics. Intense actinolite-diopside alteration, partial chlorite retrogression. Patchy mottled hornfelsed zones. Brecciated zones.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A174	278.1	279.7	Cba	VBLM	AcCa	A2	0.20	Sp			Pale grey skarnified altered basaltic volcanics. Intense actinolite-diopside alteration overprinted with skarn metasomatism. Minor calcite, sphalerite, galena and chalcopyrite.
Avebury	A174	279.7	284.1	Cba	VBLM	AcDi	A3		Sp			Pale grey to dark grey, intensely altered basaltic volcanics. Intense actinolite-diopside alteration, partial chlorite retrogression. Patchy mottled hornfelsed zones. Brecciated zones. Patchy phlogopite alteration.
Avebury	A174	284.1	289.5	Csu	SKSP	EpSi	G1	0.50	Sp			Pale grey to pale green skarnified serpentinite. Intense tremolite alteration overprinted with epidote, silica and carbonate metasomatism. Minor nickelite, pentlandite and zaratite. Stylolitic tourmaline veins. Bleached.
Avebury	A174	289.5	290.5	Csu	SKSP	AcEp	G2	0.50	Gr			Mottled green, grey and pale brown skarnified serpentinite. Intense tremolite-diopside alteration patchily overprinted with epidote and calcite metasomatism. Minor nickelite, pentlandite and zaratite. Stylolitic tourmaline veins.
Avebury	A174	290.5	292.8	Csu	SKSP	Si	A4	0.20				Dark grey, massive skarnified serpentinite. Numerous stylolitic tourmaline veins. Minor calcite and sulphides including pyrite. Silica and tremolite alteration
Avebury	A174	292.8	294	Csu	SKSP	Ep	G2	0.50	Gr			Pale green skarnified serpentinite? Strong epidote metasomatism. Very minor magnetite. Minor pentlandite. Stylolitic tourmaline veins.
Avebury	A174	294	297.5	Csu	SERP	ChMt	G3	5.00	Gr			Mottled dark green chloritised serpentinite. 3-5% pentlandite. Disseminated magnetite. Strong chlorite alteration.
Avebury	A174	297.5	299.7	Csu	SKSP	SiCh	G1	2.00	Gr			Pale green skarnified serpentinite. Strong silica-chlorite alteration. Minor stylolitic magnetite veins. Disseminated pyrrhotite and minor zaratite. Minor calcite. Zaratite around minor puggy fault at 298.7
Avebury	A174	299.7	302	Csu	SERP	SpMt	A5	5.00	Sp			Massive dark grey to black serpentinite. Disseminated magnetite and 3-5% disseminated pentlandite.
Avebury	A174	302	305.2	Csu	SKSP	SiEp	G3	1.00	Sp			Olive green mottled skarnified serpentinite. Intense silica-epidote metasomatism. Disseminated magnetite and ~1% disseminated pentlandite.
Avebury	A174	302	307.8	Csu	SERP	SpMt	A5	0.80	Gr			Massive dark grey to black serpentinite. Disseminated and vein magnetite. Minor pentlandite, disseminated and veinlets.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A174	307.8	309.1	Csu	SKSP	SiEp	G3	1.00	Bk			Olive green mottled skarnified serpentinite. Intense silica-epidote metasomatism. Disseminated magnetite and ~1% disseminated pentlandite.
Avebury	A174	309.1	309.7	Csu	SERP	SpMt	A5	0.80	Gr			Massive dark grey to black serpentinite. Disseminated magnetite and minor pentlandite, largely in veinlets.
Avebury	A174	309.7	314.3	Csu	SKSP	SiEp	A1	0.50	Sp			Pale green skarnified serpentinite. Intense silica-epidote metasomatism. Core is bleached and depleted. Very minor disseminated magnetite and very minor disseminated pentlandite. Minor chloritisation of epidote?
Avebury	A174	314.3	323.3	Csu	SERP	SpMt	A5	0.50	Gr			Massive dark grey to black serpentinite. Disseminated magnetite and patches of semi-massive magnetite. Very minor sulphide, possibly pyrite.
Avebury	A174	323.3	325.5	Csu	SKSP	DiMt	A2	0.50	Ft			Pale grey skarnified serpentinite. Intense diopside (?) alteration. Disseminated magnetite and minor disseminated pentlandite. Pale chloritic veins common.
Avebury	A174	325.5	326.9		FALT	ChTc	A2		Ft			Brittle-ductile fault. Some fault breccia with talcose matrix. Breccia clast orientation suggest normal movement. Calcite-chlorite-talc fill.
Avebury	A174	326.9	328.7	Csu	SKSP	DiEp	A3	0.50	Sp			Mottled grey-green skarnified serpentinite. Intense diopside-epidote alteration. Disseminated magnetite and minor disseminated pentlandite.
Avebury	A174	328.7	329.4	Csu	SERP	SpMt	A5	0.50	Sp			Minor pale chloritic veins. Minor calcite. Massive dark grey to black serpentinite. Disseminated magnetite and very minor sulphide, probably pentlandite, mainly on joint planes.
Avebury	A174	329.4	333	Csu	SKSP	EpMt	G3	2.00	Gr			Massive mottled green and grey skarnified serpentinite. Metasomatic epidote alteration. Disseminated magnetite. Two sulphides, probably pyrite and pentlandite.
Avebury	A174	333	335.7	Csu	SKSP	Ep	G3	2.00	Gr			Massive mid-grey moderately skarnified serpentinite. Minor magnetite, epidote. Disseminated sulphide, probably pentlandite. Actinolite-epidote alteration.
Avebury	A174	335.7	336.7	Csu	SERP	SpMt	A5	1.00	Gr			Massive mottled dark grey serpentinite. 2% disseminated pentlandite. Pale mineral (5%) individual grains and aggregates possibly tremolite.
Avebury	A174	336.7	337.7	Csu	SKSP	AcDi	A3	1.00	Gr			Massive mottled pale grey and black skarnified serpentinite. Intense actinolite-diopside alteration. Disseminated magnetite and sulphide, possibly pentlandite. Minor calcite associated with stylolitic veins of chlorite and possibly tourmaline.

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
Avebury	A174	156.5	157.5	0.03				-50	20	-0.1	12.6	8.5			
Avebury	A174	157.5	158.5	0.02				150	-20	-0.1	11.3	1.5			
Avebury	A174	158.5	159.5	0.03				100	-20	-0.1	11.6	2.0			
Avebury	A174	179.2	180.2	0.12				50	-20	0.4	8.6	5.0			
Avebury	A174	180.2	182	0.14				50	20	0.8	5.6	4.4			
Avebury	A174	182	183	0.07				-50	-20	0.5	1.1	1.8			
Avebury	A174	183	184	0.15				-50	40	1.2	2.5	6.4			
Avebury	A174	184	185	0.07				-50	-20	0.7	7.0	6.5			
Avebury	A174	185	186	0.04				-50	-20	0.1	10.7	7.4			
Avebury	A174	186	187	0.07				-50	20	0.6	10.9	7.1			
Avebury	A174	187	188	0.28				50	180	1.7	10.8	8.3			
Avebury	A174	188	189	0.10				-50	20	0.3	11.5	7.0			
Avebury	A174	189	190	0.05				-50	-20	-0.1	11.4	6.4			
Avebury	A174	190	191	0.08				50	-20	-0.1	12.4	6.0			
Avebury	A174	191	192	0.06				50	-20	-0.1	11.7	5.2			
Avebury	A174	192	193	0.11				50	-20	0.2	11.4	5.6			
Avebury	A174	193	194	0.07				-50	-20	0.5	11.2	5.1			
Avebury	A174	194	195	0.07				50	20	-0.1	6.6	6.6			
Avebury	A174	277	278	0.08				-50	40	-0.1	9.3	9.6			
Avebury	A174	278	279	0.07				50	40	-0.1	11.0	8.3			
Avebury	A174	279	280	0.07				-50	80	-0.1	10.6	10.5			
Avebury	A174	283.1	284.1	0.13				50	120	-0.1	10.7	14.3			
Avebury	A174	284.1	285	0.30				300	100	0.1	8.1	7.2			
Avebury	A174	285	286	0.25				1800	60	-0.1	10.3	3.5			
Avebury	A174	286	287	0.29				2550	120	0.1	10.5	3.9			
Avebury	A174	287	288	0.16				1750	-20	-0.1	10.8	1.9			
Avebury	A174	288	289	0.15				1750	-20	-0.1	10.8	2.2			
Avebury	A174	289	290	0.09				700	20	-0.1	5.4	4.0			
Avebury	A174	290	291	0.19				1300	-20	-0.1	6.1	2.5			
Avebury	A174	291	292	0.24				1100	-20	0.1	11.8	2.2			
Avebury	A174	292	293	0.17				950	-20	-0.1	12.6	2.4			
Avebury	A174	293	294	0.11				200	-20	-0.1	11.5	3.0			
Avebury	A174	294	295	2.30				400	640	2.4	16.0	16.3			

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
Avebury	A174	295	296	2.33				200	620	2.5	24.8	19.0			
Avebury	A174	296	297	1.64				150	460	2.5	25.4	18.4			
Avebury	A174	297	298	1.35				100	380	2.1	19.2	15.5			
Avebury	A174	298	299	0.19				450	20	-0.1	14.2	6.9			
Avebury	A174	299	300	0.65				200	140	0.6	20.6	7.2			
Avebury	A174	300	301	1.67				250	400	1.6	28.0	13.9			
Avebury	A174	301	302	0.51				100	160	0.3	30.2	11.4			
Avebury	A174	302	303	0.22				50	20	0.1	15.9	5.4			
Avebury	A174	303	304	0.22				50	20	0.1	17.6	6.9			
Avebury	A174	304	305	0.23				200	20	0.1	16.3	6.3			
Avebury	A174	305	306	0.16				50	80	0.2	30.9	11.6			
Avebury	A174	306	307	0.17				100	120	0.2	33.7	16.2			
Avebury	A174	307	308	0.14				50	40	0.1	28.0	9.7			
Avebury	A174	308	309	0.25				250	20	0.1	15.8	6.7			
Avebury	A174	309	310	0.13				100	40	0.4	25.5	9.9			
Avebury	A174	310	311	0.17				350	-20	-0.1	12.9	3.9			
Avebury	A174	311	312	0.21				100	-20	0.1	12.1	2.0			
Avebury	A174	312	313	0.24				950	-20	0.1	13.0	2.7			
Avebury	A174	313	314	0.17				550	-20	-0.1	12.1	1.7			
Avebury	A174	314	315	0.25				250	100	0.3	23.9	15.3			
Avebury	A174	315	316	0.14				100	100	-0.1	33.1	14.4			
Avebury	A174	316	317	0.13				100	80	-0.1	30.0	12.8			
Avebury	A174	317	318	0.15				100	100	-0.1	33.6	13.7			
Avebury	A174	318	319	0.15				100	100	-0.1	34.8	14.7			
Avebury	A174	319	320	0.15				100	180	-0.1	27.1	26.1			
Avebury	A174	320	321	0.18				150	260	-0.1	27.6	35.0			
Avebury	A174	321	322	0.18				100	200	-0.1	34.1	22.5			
Avebury	A174	322	323	0.17				100	160	-0.1	32.1	21.6			
Avebury	A174	323	324	0.10				200	40	-0.1	18.5	14.2			
Avebury	A174	324	325	0.20				1250	20	-0.1	15.0	9.8			
Avebury	A174	325	326	0.09				150	60	-0.1	18.8	15.4			
Avebury	A174	326	327	0.09				250	40	-0.1	17.4	14.4			
Avebury	A174	327	328	0.11				450	60	-0.1	19.6	14.9			

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
Avebury	A174	328	329	0.11				250	40	-0.1	23.1	11.7			
Avebury	A174	329	330	0.15				200	140	-0.1	28.7	22.7			
Avebury	A174	330	331	0.27				800	120	0.1	20.6	15.7			
Avebury	A174	331	332	0.62				350	180	0.6	19.5	12.3			
Avebury	A174	332	333	1.10				200	280	1.3	17.0	10.4			
Avebury	A174	333	334	1.06				50	260	0.6	23.3	5.6			
Avebury	A174	334	335	0.67				150	120	0.6	22.1	4.8			
Avebury	A174	335	336	0.51				100	140	0.5	28.8	6.3			
Avebury	A174	336	337	0.69				50	200	0.9	26.4	6.4			
Avebury	A174	337	338	0.28				50	80	0.5	26.3	5.8			
Avebury	A174	338	339	0.38				-50	140	0.9	27.3	5.9			
Avebury	A174	339	340	1.03				-50	400	2.4	28.6	13.0			
Avebury	A174	340	341	1.30				250	380	2.2	27.7	9.4			
Avebury	A174	341	342	0.82				100	260	1.3	28.9	7.9			
Avebury	A174	342	343	0.17				100	20	0.1	26.2	6.0			
Avebury	A174	343	344	0.35				350	40	0.3	25.1	4.6			
Avebury	A174	344	345	1.65				2350	300	1.5	29.1	7.0			
Avebury	A174	345	346	0.35				700	40	0.1	33.5	5.0			
Avebury	A174	346	347	1.24				1750	200	0.8	35.6	8.6			
Avebury	A174	347	348	0.62				750	100	0.4	37.6	7.8			
Avebury	A174	348	349	0.50				450	80	0.3	35.6	7.2			
Avebury	A174	349	350	0.43				200	40	0.4	31.8	6.0			
Avebury	A174	350	351	0.30				50	60	0.2	33.9	7.3			
Avebury	A174	351	352	0.60				150	80	0.6	28.5	5.7			
Avebury	A174	352	353	0.67				50	150	0.8	33.6	7.2			
Avebury	A174	353	354	0.35				50	100	0.4	41.6	8.7			
Avebury	A174	354	355	0.49				-50	140	0.6	42.1	9.0			
Avebury	A174	355	356	0.36				-50	120	0.6	43.7	9.4			
Avebury	A174	356	357	0.22				-50	100	0.4	41.5	10.8			
Avebury	A174	357	358	0.30				-50	140	1.1	42.5	10.5			
Avebury	A174	358	359	0.25				-50	80	0.8	37.1	7.9			
Avebury	A174	359	360	0.65				-50	200	2.3	39.3	11.0			
Avebury	A174	360	361	0.36				-50	140	1.2	40.4	9.3			

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
Avebury	A174	361	362	0.39				-50	140	1.3	40.3	9.7			
Avebury	A174	362	363	1.01				-50	340	3.3	37.9	12.9			
Avebury	A174	363	364	0.36				50	120	0.9	39.7	8.8			
Avebury	A174	364	365	0.35				50	160	1.0	39.5	10.6			
Avebury	A174	365	366	0.35				50	160	0.9	40.3	11.4			
Avebury	A174	366	367	0.38				50	180	0.8	38.9	11.3			
Avebury	A174	367	368	0.30				-50	120	0.4	38.7	10.4			
Avebury	A174	368	369	0.28				-50	120	0.3	39.7	10.7			
Avebury	A174	369	370	0.26				-50	80	0.3	41.5	9.2			
Avebury	A174	370	371	0.32				-50	100	0.3	41.0	9.2			
Avebury	A174	371	372	0.24				50	80	0.2	40.1	9.5			
Avebury	A174	372	373	0.30				-50	100	0.2	40.7	9.0			
Avebury	A174	373	374	0.26				-50	80	0.2	39.8	9.0			
Avebury	A174	374	375	0.27				-50	100	0.2	40.1	9.6			
Avebury	A174	375	376	0.26				50	100	0.2	39.0	10.8			
Avebury	A174	376	377	0.24				50	80	0.1	38.4	10.4			
Avebury	A174	377	378	0.25				50	80	0.1	39.5	9.7			
Avebury	A174	378	379	0.26				50	80	0.1	39.1	9.3			
Avebury	A174	379	380	0.42				-50	120	0.3	39.5	10.1			
Avebury	A174	380	381	0.27				50	80	0.1	39.8	10.0			
Avebury	A174	381	382	0.32				-50	100	0.1	38.0	11.0			
Avebury	A174	382	383	0.71				50	160	0.6	39.1	11.8			
Avebury	A174	383	384	0.47				50	100	0.3	40.4	10.4			
Avebury	A174	384	385	0.34				-50	80	0.2	40.8	10.9			
Avebury	A174	385	386	0.36				50	80	0.1	40.4	10.5			
Avebury	A174	386	387	0.31				50	80	0.1	38.4	10.6			
Avebury	A174	387	388	0.37				50	100	0.2	38.8	12.0			
Avebury	A174	388	389	0.31				50	80	0.1	38.9	11.2			
Avebury	A174	389	390	0.27				50	60	0.1	39.0	10.1			
Avebury	A174	390	391	0.27				50	60	0.1	41.2	10.0			
Avebury	A174	391	392	0.27				50	60	0.1	40.5	9.9			
Avebury	A174	392	393	0.25				50	60	0.2	38.9	10.0			
Avebury	A174	393	394	0.25				-50	60	0.1	40.3	9.7			

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
Avebury	A174	394	395	0.23				50	60	0.1	38.0	8.6			
Avebury	A174	395	396	0.25				50	60	0.1	41.5	9.8			
Avebury	A174	396	397	0.28				-50	80	0.1	41.1	9.9			
Avebury	A174	397	398	0.27				50	80	0.1	40.6	11.0			
Avebury	A174	398	399	0.24				-50	80	0.3	39.6	10.0			
Avebury	A174	399	400	0.23				-50	60	0.4	39.1	8.9			
Avebury	A174	400	401	0.25				-50	80	0.3	43.1	9.4			
Avebury	A174	401	402	0.23				-50	100	0.4	39.0	9.5			
Avebury	A174	402	403	0.22				50	100	0.3	40.8	10.1			
Avebury	A174	403	404	0.23				-50	100	0.3	40.1	10.8			
Avebury	A174	404	405	0.19				50	80	0.1	39.7	11.0			
Avebury	A174	405	406	0.21				-50	80	0.2	36.8	10.6			
Avebury	A174	406	407	0.21				-50	80	0.3	39.1	10.5			
Avebury	A174	407	408	0.23				50	100	0.2	40.0	11.5			
Avebury	A174	408	409	0.21				-50	80	0.2	40.9	10.5			
Avebury	A174	409	410	0.26				-50	80	0.3	41.2	11.3			
Avebury	A174	410	411	0.26				50	80	0.1	39.9	10.6			
Avebury	A174	411	412	0.23				-50	60	-0.1	40.1	9.7			
Avebury	A174	412	413	0.34				50	100	0.1	40.0	10.4			
Avebury	A174	413	414	0.24				50	80	-0.1	40.8	11.3			
Avebury	A174	414	415	0.26				50	80	-0.1	40.2	11.2			
Avebury	A174	415	416	0.20				-50	80	-0.1	40.4	11.8			
Avebury	A174	416	417	0.20				-50	60	-0.1	40.5	11.5			
Avebury	A174	417	418	0.22				50	80	-0.1	39.6	11.6			
Avebury	A174	418	419	0.20				50	60	-0.1	41.2	10.7			
Avebury	A174	419	420	0.27				50	100	-0.1	39.7	11.9			
Avebury	A174	420	421	0.19				50	60	-0.1	38.6	11.0			
Avebury	A174	421	422	0.21				50	80	-0.1	41.2	10.7			
Avebury	A174	422	423	0.28				-50	80	-0.1	41.6	10.1			
Avebury	A174	423	424	0.36				50	80	0.1	41.5	9.6			
Avebury	A174	424	425	0.27				50	80	-0.1	40.8	11.2			
Avebury	A174	425	426	0.31				50	80	0.1	40.8	10.7			
Avebury	A174	426	427	0.28				-50	80	-0.1	42.0	11.2			

Alliance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A175	0	2		CLAY	Cy	B2					Clay and 1.5m of core loss
East_Av	A175	2	10	Cba	VBLM	Li	B3		Gr	Bd	35	Deeply weathered basaltic volcanoclastics, mid-brown, some textural preservation, largely goethite-limonite
East_Av	A175	10	14.1	Cba	VBLM	LiCh	A2		Ft	Bd	35	Moderately weathered basaltic volcanoclastics, limonite-chlorite alteration inconsistent bedding, brown to mid-grey, strong actinolite-diopside alteration some lithic clasts
East_Av	A175	14.1	15.2		FALT	CyLi	B2		Ft			Puggy fault, clay-limonite-goethite
East_Av	A175	15.2	19.5	Cba	VBLB	AcDi	A2		Gr	Bd	30	Largely unweathered, massive basaltic volcanoclastic breccia, angular clasts, some clast flattening, strong actinolite-diopside alteration, limonite on joints
East_Av	A175	19.5	29.6	Cba	VBLM	AcDi	G3		Ft	Bd	20	Pale green and grey intensely altered basaltic volcanoclastic sandstone and siltstone. Pervasive strong actinolite-diopside alteration. Brecciated and disrupted.
East_Av	A175	29.6	30.6		FALT	Cy	A2		Ft			Puggy brittle fault with minor pale grey clay
East_Av	A175	30.6	35.4	Cba	VBLM	AcDi	A2		Gr	Bd	30	Pale green and grey intensely altered basaltic volcanoclastic sandstone and siltstone. Pervasive strong actinolite-diopside alteration. Brecciated and disrupted, transitional to lithic conglomerate.
East_Av	A175	35.4	43.3	Cba	VBLM	AcDi	G4	0.50	Ft	Bd	20	Mid-deep green and grey intensely altered basaltic volcanoclastic sandstone and siltstone. Pervasive strong actinolite-diopside alteration. Strongly brecciated and disrupted. Magnetite disseminations and veins. Minor purplish calcite and siderite. Patches and veins of sulphide including very minor chalcopyrite and possibly pyrite or pyrrhotite?. Later chlorite and tremolite? alteration.
East_Av	A175	43.3	48.6	Cba	VBLM	AcDi	G3		Gr	Bd	35	Pale green and cream basaltic volcanoclastic sandstone and siltstone. Pervasive strong actinolite-diopside alteration. Brecciated and disrupted, transitional to lithic conglomerate.
East_Av	A175	48.6	56.3	Ccc	GWAC	PhBi	A4			Bd	20	Massive dark grey feldspar lithic greywacke and siltstone, strongly hornfelsed. Pervasive phlogopite and possibly biotite alteration. Some sections of core heavily broken.
East_Av	A175	56.3	57.5	Cba	SILT	PhAc	A4		Gr	Bd	30	Massive dark grey laminated siltstone, with lesser patches of hornfelsed greywacke. Pervasive phlogopite alteration with overprinting actinolite-diopside.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A175	57.5	58.1	Cba	VBLB	AcDi	G2		Ft			Massive basaltic volcanoclastic lithic breccia. Strong actinolite-diopside alteration with later chlorite alteration.
East_Av	A175	58.1	58.8		FALT				Ft			Brittle fault, core heavily broken. Rock type is VBLB as above.
East_Av	A175	58.8	65.7	Cba	GWAC	PhAc	A4	0.10	Ft	Bd	30	Predominantly massive, dark grey, strongly hornfelsed feldspar lithic greywacke, with interbedded laminated siltstone. Minor patches of actinolite-diopside altered and chlorite retrogressed volcanoclastic breccia. Pervasive strong phlogopite alteration. Very minor pyrite on joint planes.
East_Av	A175	65.7	66.1		FALT				Ft			Brittle fault, core heavily broken.
East_Av	A175	66.1	68.6	Cba	GWAC	PhAc	A4		Gr	Bd	35	Predominantly massive, dark grey, strongly hornfelsed feldspar lithic greywacke, with interbedded laminated siltstone. Patches of actinolite-diopside altered and chlorite retrogressed volcanoclastic breccia. Pervasive strong phlogopite alteration.
East_Av	A175	68.6	79.6	Cba	VBLB	PhAc	A4		Sp	Bd	30	Predominantly massive basaltic volcanoclastic lithic breccia, with interbedded siltstone and minor hornfelsed greywacke. Pervasive phlogopite alteration in siltstones, and strong actinolite-diopside alteration in breccia. Faulted lower contact with chlorite on contact.
East_Av	A175	79.6	81.1	Cba	VBLM	ChAc	G3		Ft			Massive mottled green and cream strongly hornfelsed volcanoclastic sandstone? Original texture destroyed. Actinolite-diopside alteration with chlorite retrogression. Brecciated lower contact to greywacke.
East_Av	A175	81.1	83	Ccc	GWAC	Ph	B3		Gr	Bd	30	Massive, dark brown hornfelsed feldspar lithic greywacke. Pervasive phlogopite alteration.
East_Av	A175	83	84.9	Cba	VBLB	AcDi	G3		Bk			Massive, intensely altered basaltic volcanoclastic breccia and sandstone. Intense actinolite alteration with diopside overprinting. Also silica alteration and induration.
East_Av	A175	84.9	88.7	Ccc	GWAC	Ph	B3		Gr	Bd	30	Massive, dark brown hornfelsed feldspar lithic greywacke. Pervasive phlogopite alteration.
East_Av	A175	88.7	93.1	Cba	VBLB	AcDi	G3		Bk	Bd	30	Massive, intensely altered basaltic volcanoclastic breccia, hornfelsed sandstone and laminated siltstone. Intense actinolite alteration with diopside overprinting. Also minor silica alteration and induration, patchy phlogopite alteration.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A175	93.1	96.2	Cba	VBLB	AcTr	G3	1.00	Ft			Massive skarnified altered basaltic volcanoclastic breccia? Intense actinolite alteration overprinted with epidote and tremolite. Magnetite blebs and veins. Minor calcite. Sulphides including chalcopyrite, pyrrhotite and pyrite?
East_Av	A175	96.2	99.4	Cba	VBLB	AcDi	A3		Gr			Massive, intensely altered basaltic volcanoclastic breccia and sandstone. Intense actinolite alteration with diopside overprinting.
East_Av	A175	99.4	101.4	Cba	VBLB	Ac	A4	2.00	Gr			Massive dark grey basaltic volcanoclastic breccia. Intense actinolite alteration. 2-5% disseminated pyrite.
East_Av	A175	101.4	112.3	Cba	VBLB	AcPh	A4	0.01	Bk			Massive, intensely altered basaltic volcanoclastic breccia and sandstone. Intense actinolite alteration and patchy intense phlogopite alteration. Very minor pyrite.
East_Av	A175	112.3	137	Ccc	GWAC	PhAc	B4	1.00	Gr	Bd	35	Predominantly massive, dark grey, strongly hornfelsed feldspar lithic greywacke, with disseminated pyrite. Patches of intensely actinolite-diopside altered and chlorite retrogressed volcanoclastic breccia. Pervasive strong phlogopite alteration.
East_Av	A175	137	141	Cba	VBLB	AcPh	A3	0.50	Gr	Bd	40	Massive mid-grey to brown altered basaltic volcanoclastic breccia. Intense actinolite-diopside alteration and patchy intense phlogopite alteration. Minor pyrite and pyrrhotite.
East_Av	A175	141	158.6	Cba	VBLM	AcDi	A2	0.50	Sp	Bd	45	Massive pale grey to green intensely altered and metasomatised basaltic volcanoclastic sandstone and siltstone with lesser brecciated intervals. Intense actinolite alteration with diopside overprinting. Metasomatic epidote and carbonate including calcite and minor siderite. Very minor sulphides: pyrite, chalcopyrite and possibly galena.
East_Av	A175	158.6	160.2	Cba	VBLM	Ac	A2	0.01	Sp			Massive pale-grey to altered basaltic volcanoclastic breccia and sandstone. Intense actinolite alteration but relatively little skarnification. Very minor po.
East_Av	A175	160.2	162.9	Cba	VBLM	AcEp	A2		Ft			Massive mid green intensely altered and metasomatised basaltic volcanoclastic sandstone. Intense overprinting epidote-calcite metasomatism.
East_Av	A175	162.9	164		FALT	AcCa	A2	0.50	Ft			Puggy brittle fault zone. Several lithologies, lithic greywacke and intensely metasomatised volcanoclastics? Minor pyrrhotite.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A175	164	166.7	Cba	VBLM	AcDi	A2		Gr	Bd	35	Massive pale grey to green intensely altered and metasomatised basaltic volcanoclastic sandstone and siltstone with lesser brecciated intervals. Intense actinolite alteration with diopside overprinting. Minor epidote-calcite veins.
East_Av	A175	166.7	169.8	Ccc	GWAC	PhAc	B4		Gr			Predominantly massive dark brown feldspar lithic greywacke. Intense phlogopite alteration. Lesser brecciated intervals with intense actinolite alteration and minor chlorite retrogression.
East_Av	A175	169.8	171.1	Cba	VBLB	AcDi	G3		Sp			Massive green intensely altered and metasomatised basaltic volcanoclastic breccia. Intense actinolite alteration and diopside overprinting.
East_Av	A175	171.1	171.8	Cba	VBLB	PhAc	B4	2.00	Sp			Massive dark brown intensely altered volcanoclastic breccia. Intense phlogopite alteration with pyrrhotite, pyrite and very minor chalcopyrite.
East_Av	A175	171.8	183.3	Cba	VBLB	AcCh	G3		Gr			Massive pale grey to green intensely altered and metasomatised basaltic volcanoclastic breccia and sandstone. Intense actinolite alteration and with diopside overprinting. Extensive chlorite retrogression in patches. Intense epidote-calcite metasomatism with minor stylolitic tourmaline veins. Minor siderite.
East_Av	A175	183.3	184.4	Cba	VBLB	PhAc	B4	2.00	Sp			Massive dark brown intensely altered volcanoclastic breccia. Intense phlogopite alteration with pyrrhotite, pyrite and very minor chalcopyrite.
East_Av	A175	184.4	189.7	Cba	VBLB	AcCh	G3		Gr			Massive mid green intensely altered and metasomatised basaltic volcanoclastic breccia and siltstone. Intense actinolite alteration and with diopside overprinting. Extensive chlorite retrogression in patches. Moderate to intense epidote-calcite-silica metasomatism.
East_Av	A175	189.7	196.1	Cba	VBLB	AcCh	A3	1.00	Sp			Massive dark grey intensely altered and metasomatised basaltic volcanoclastic breccia and siltstone. Intense silica-epidote-calcite-siderite metasomatism. Blebs and veins of sulphide including pyrrhotite, pyrite and possibly chalcopyrite and sphalerite. Minor tourmaline.
East_Av	A175	196.1	200.6	Cba	VBLM	AcSi	G2	0.10	Sp	Bd	60	Massive pale green to cream altered basaltic volcanoclastic sandstone. Intense silica metasomatism with minor epidote, calcite and very minor sphalerite, pyrrhotite and tourmaline.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A175	200.6	209.4	Cba	VBLB	AcCh	A3	1.00	Gr	Bd	45	Massive dark grey intensely altered and metasomatised basaltic volcanoclastic breccia and siltstone. Intense silica-epidote-calcite metasomatism. Blebs and veins of sulphide including pyrrhotite, pyrite, sphalerite and possibly chalcopyrite.
East_Av	A175	209.4	234.9	Ccc	GWAC	Ph	B4	1.00	Gr	Bd	40	Massive dark brown intensely altered lithic greywacke and siltstone. Siltstone is well bedded but bedding is disrupted and brecciated. Pervasive intense phlogopite alteration, minor actinolite alteration. 1-2% po-py, blebs and on . joints. Strongly hornfelsed.
East_Av	A175	234.9	250.4	Cba	VBLM	AcDi	G2	0.20	Gr	Bd	45	Massive pale green to pale grey intensely altered basaltic volcanoclastic breccia, sandstone and siltstone. Patchy intense phlogopite alteration uphole, intense actinolite-diopside alteration throughout. Grading suggests younging uphole (eg. 244.6m). Bedding patchily preserved, mainly brecciated and disrupted. Minor sulphide, associated with phlogopite.
East_Av	A175	250.4	253.8	Cba	SILT	PhDi	A3		Gr	Bd	45	Massive well bedded intensely altered volcanoclastic sandstone and laminated siltstone. Bedding is somewhat disrupted but relatively well preserved. Strongly hornfelsed. Intense phlogopite-diopside-silica alteration.
East_Av	A175	253.8	286.3	Cba	VBLM	PhAc	B3	0.20	Gr	Bd	45	Massive mid-brown intensely altered feldspar lithic sandstone and laminated siltstone. Patchy intense phlogopite alteration, patchy texturally destructive actinolite alteration with minor diopside. Strongly hornfelsed. Bedding often brecciated and disrupted where preserved. Grading suggests younging uphole (eg. 263.0m). Minor late calcite veins. Minor po-py veins.
East_Av	A175	286.3	288.7	Ccc	GWAC	Ph	B4	0.80	Sp			Massive dark brown intensely altered feldspar lithic sandstone with minor siltstone and breccia. Intense pervasive phlogopite alteration. Minor po-py.
East_Av	A175	288.7	299.2	Cba	VBLB	AcDi	A2		Gr			Massive pale grey to green intensely altered basaltic volcanoclastic breccia, sandstone and minor siltstone. Intense actinolite-diopside alteration, often texturally destructive. Bedding, where present, is disrupted. Minor epidote and carbonate.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A175	299.2	313.8	Cba	VBLB	EpCa	A2	0.20	Sp			Massive pale grey intensely altered and skarnified basaltic volcanoclastics. Intense actinolite-diopside alteration overprinted with intense metasomatic epidote-carbonate alteration. Minor intervals of black shale with pyrite veinlets. Minor axinite.
East_Av	A175	313.8	317.3	Cba	VBLM	AcCh	G3		Sp	Bd	60	Massive dark green intensely altered basaltic volcanoclastic sandstone. Intense actinolite-chlorite alteration. Lightly skarnified (epidote-diopside-calcite). Some preservation of bedding.
East_Av	A175	317.3	323	Cba	VBLM	AcEp	A1		Sp	Bd	60	Massive pale grey to mid-green intensely altered basaltic volcanoclastic sandstone (greywacke). Intense actinolite alteration overprinted with intense chlorite-calcite-tremolite(?) skarn alteration. Relict bedding contains open folds with short wavelength (0.1-0.2m) but there is some indication of two generations of interfering folds.
East_Av	A175	323	329	Cba	VBLM	AcCh	G3		Sp			Massive mottled dark green intensely altered basaltic volcanoclastic sandstone. Intense actinolite-chlorite alteration. Lightly skarnified (epidote-siderite-calcite-tourmaline).
East_Av	A175	329	334.7	Cba	GWAC	PhAc	B3		Sp	Bd	60	Massive mid brown altered feldspar lithic greywacke. Pervasive phlogopite-biotite alteration with minor actinolite overprinting. Minor talcose veins and joint coatings.
East_Av	A175	334.7	342	Cba	GWAC	Ph	B2		Ft			Massive mid brown altered feldspar lithic greywacke. Pervasive phlogopite-alteration. Phlogopite coarsely crystalline. Numerous veins and streaks of albite(?). Streaky schistose texture.
East_Av	A175	342	342.6		FALT	PhTc						Brittle-ductile fault. Talc-chlorite alteration of phlogopite altered greywacke.
East_Av	A175	342.6	343.9	Cba	PHLG	Ph	B2		Ft			Massive mid brown phlogopite schist after altered feldspar lithic greywacke(?) Phlogopite coarsely crystalline. Numerous veins and streaks of albite (?)
East_Av	A175	343.9	344.5		FALT	PhTc						Brittle-ductile fault. Talc-chlorite alteration of phlogopite altered greywacke.
East_Av	A175	344.5	350.9	Cba	PHLG	Ph	B2		Ft			Massive mid brown phlogopite schist after altered feldspar lithic greywacke(?) Phlogopite coarsely crystalline. Numerous veins and streaks of albite (?)

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A175	350.9	351.3		FALT	PhCy	B3	0.50	Ft	Ft	80	Brittle fault in phlogopite schist. Minor clay at lower end. Minor pyrite in veins.
East_Av	A175	351.3	352.6	Cba	SKRN	DiEp	A2	1.00	Ft			Massive mottled intensely metasomatised skarn. Intense diopside(?) alteration, minor epidote, axinite, talc and chlorite. Textures suggest skarn alteration may be of phlogopite schist rather than ultramafics. 1% disseminated sulphide, probably nickelite.
East_Av	A175	352.6	354.6		FALT	Ch			Ft			Brittle fault, core very rubbly and broken with poor recovery.
East_Av	A175	354.6	356.9	Csu	SERP	SpMt	A5	0.50	Ft			Massive dark grey serpentinite. Disseminated magnetite throughout, minor unidentified sulphide, colour intermediate between pyrrhotite and arsenopyrite.
East_Av	A175	356.9	357.6		FALT	ChTc			Ft			Brittle fault in ultramafic. Minor chlorite, talc and clay alteration.
East_Av	A175	357.6	371.9	Csu	SERP	SpMt	G5	1.00	Ft			Massive dark green and grey serpentinite. Patchy magnetite throughout, usually associated with minor sulphide. There are commonly two sulphides, one brassy (probably pentlandite or pyrrhotite) and one silver coloured, possibly pyrite or a nickel arsenide? Sulphide is scarce, 0.5-1%. Minor talc veins.
East_Av	A175	371.9	372.2		FALT	ChTc			Ft			Brittle fault in ultramafic. Minor chlorite, talc and clay alteration.
East_Av	A175	372.2	385	Csu	SERP	SpMt	G5	0.50	Ft			Massive dark green and grey serpentinite. Disseminated magnetite throughout, and larger patches common. There are commonly two sulphides, one brassy (probably pentlandite or pyrrhotite) and one silver coloured, possibly pyrite or a nickel arsenide? Sulphide is scarce, 0.5-1%. Minor talc veins.
East_Av	A175	385	385.1		FALT	TcCh			Ft		40	Minor puggy brittle fault.
East_Av	A175	385.1	397.9	Csu	SERP	SpMt	G5	0.50	Ft			Massive dark green and grey serpentinite. Disseminated magnetite throughout, and larger patches common. Minor sulphide (probably pentlandite). Chrysotile and/or talc common on joints. Alteration patches contain most sulphide and coarse magnetite.
East_Av	A175	397.9	398		FALT	TcCh			Ft			Minor puggy brittle fault.
East_Av	A175	398	400	Csu	SERP	SpMt	G5	0.20	Ft			Massive dark green and grey serpentinite. Disseminated magnetite throughout, and larger patches common. Minor sulphide (probably pentlandite). Chrysotile and/or talc common on joints.
East_Av	A175	400	400.1		FALT	TcCh			Ft			Minor puggy brittle fault.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A175	400.1	403	Csu	SERP	SpMt	G5	0.50	Ft			Massive dark green and grey serpentinite. Disseminated magnetite throughout, and larger patches common. Minor sulphide (probably pentlandite). Chrysotile and/or talc common on joints.
East_Av	A175	403	404.5	Csu	SERP	SpMt	G5	0.80	Gr			Massive dark green and grey serpentinite. Disseminated magnetite throughout, and larger patches common. Minor sulphide (probably pentlandite). Chrysotile and/or talc common on joints. Slightly more sulphide than uphole. Core is relatively more broken than uphole and downhole.
East_Av	A175	404.5	431.1 EOH	Csu	SERP	SpMt	G5	0.50				Massive dark green and grey serpentinite. Disseminated magnetite throughout, and larger patches common. Minor sulphide (probably pentlandite). Chrysotile and/or talc common on joints. Pale blotchy appearance given by numerous large (20mm+) segregations of talc, tremolite, coarse magnetite and blebby chloritised serpentine with or without sulphide.

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A175	0	5.6		CLOS							Tri-cone to 5.6m
Avebury	A176	5.6	6.9	Ogl	CARB	CaLi	A2		Bk	Bd	30	Massive pale grey limestone. Gordon Group correlate. Relatively unweathered, somewhat broken and rubbly.
Avebury	A176	6.9	7.2	Ogl	CARB	CaCy	A2		Bk	Bd	30	Massive pale grey limestone. Gordon Group correlate. Some clay alteration.
Avebury	A176	7.2	8.2		LOSS							No core recovery.
Avebury	A176	8.2	9.7	Ogl	CARB	CaLi	A2		Bk	Bd	35	Massive pale grey limestone. Gordon Group correlate. Some limonite alteration.
Avebury	A176	9.7	11.2		LOSS							No core recovery.
Avebury	A176	11.2	14.9	Ogl	CARB	CaLi	A2		Bk	Bd	45	Massive pale grey limestone. Gordon Group correlate. Some limonite alteration. Core relatively broken.
Avebury	A176	14.9	17.2		LOSS							No core recovery.
Avebury	A176	17.2	22.1	Ogl	CLAY	CyLi	B2		Bk			Puggy clay and broken pale grey limestone. Some clay may be karst fill rather than in-situ weathered limestone.
Avebury	A176	22.1	23.5	Ogl	CARB	CaLi	A2		Bk			Massive pale grey limestone. Gordon Group correlate. Some limonite alteration. Core relatively broken.
Avebury	A176	23.5	24.3		LOSS							No core recovery.
Avebury	A176	24.3	26.2	Ogl	CARB	CaLi	A2		Bk			Massive pale grey limestone, Gordon Group correlate. Relatively competent. Minor limonite and clay alteration.
Avebury	A176	26.2	31	Ogl	CARB	LiCy	B2		Bk			Heavily broken and weathered pale grey limestone. Extensive limonite and clay alteration.
Avebury	A176	31	31.5		CLAY	Cy	B1		Bk			Puggy clay, probably karst fill.
Avebury	A176	31.5	32	Ogl	CARB	LiCy	B2		Bk			Heavily broken and weathered pale grey limestone. Extensive limonite and clay alteration.
Avebury	A176	32	32.9		CLAY	Cy	B1		Bk			Puggy clay, probably karst fill.
Avebury	A176	32.9	33.6	Ogl	CARB	CaLi	A2		Bk	Bd	30	Massive pale grey limestone, Gordon Group correlate. Relatively competent. Minor limonite and clay alteration. Indications of possible folding, but bedding relatively indistinct.
Avebury	A176	33.6	34.6		CLAY	Cy	B1		Bk			Puggy clay, probably karst fill. Clay contains numerous coarse, angular lithic fragments.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A176	34.6	38.2	Ogl	CARB	CaLi	A2		Bk			Massive pale grey limestone, Gordon Group correlate. Relatively competent. Minor limonite and clay alteration. Indications of possible folding, but bedding relatively indistinct.
Avebury	A176	38.2	38.8		CLAY	Cy	B1		Bk			Puggy clay, probably karst fill. Clay contains numerous coarse, angular lithic fragments.
Avebury	A176	38.8	40.7	Ogl	CARB	CaLi	A2		Bk			Massive pale grey limestone, Gordon Group correlate. Relatively competent. Minor limonite and clay alteration.
Avebury	A176	40.7	42.9	Ogl	CARB	CaLi	A2		Bk	Bd	60	Massive pale grey limestone, Gordon Group correlate. Heavily broken. Extensive bedding plane parting. Dendritic pyrolusite on parted bedding planes. No core recovery. Some clay associated with loss area, possible minor karst.
Avebury	A176	42.9	43.4		LOSS							
Avebury	A176	43.4	44.8	Ogl	CARB	CaLi	A2		Bk	Bd	60	Massive pale grey limestone, Gordon Group correlate. Heavily broken. Extensive bedding plane parting. Strong clay and limonite alteration.
Avebury	A176	43.4	47.4	Ogl	CARB	CaLi	A2		Ft	Bd	45	Massive pale grey limestone, Gordon Group correlate. Relatively competent. Minor limonite alteration. Well bedded.
Avebury	A176	47.4	47.7		FALT	CyCa			Ft		45	Puggy brittle fault. Minor brecciation. Clay alteration.
Avebury	A176	47.7	48.4	Ogl	CARB	CaLi	A2		Ft	Bd	45	Massive pale grey limestone, Gordon Group correlate. Relatively competent. Some clay and limonite alteration. Minor pyrolusite. Dissolution cavity near lower (faulted) contact.
Avebury	A176	48.4	47.9		FALT							Puggy brittle fault. Extensive clay alteration.
Avebury	A176	47.9	49.5	Ogl	CARB	CaLi	A2		Ft	Bd	45	Massive pale grey limestone, Gordon Group correlate. Relatively competent. Some clay and limonite alteration. Minor pyrolusite.
Avebury	A176	49.5	49.6		FALT							Puggy brittle fault. Extensive clay alteration.
Avebury	A176	49.6	53.6	Ogl	CARB	CaLi	A2		Bk	Bd	50	Massive pale grey limestone, Gordon Group correlate. Moderately competent. Some clay and limonite alteration. Minor pyrolusite. Well bedded. Some dissolution karst features.
Avebury	A176	53.6	54.7	Ogl	CARB	CyLi	A2		Bk			Massive pale grey limestone, Gordon Group correlate. Heavily broken and strong clay and limonite alteration.
Avebury	A176	54.7	58	Ogl	CARB	CyLi	A1		Bk	Bd	70	Massive pale grey limestone, Gordon Group correlate. Heavily broken and strong clay and limonite alteration. Bedding inconsistent. Numerous dissolution

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A176	58	58.5		LOSS							features.
Avebury	A176	58.5	59	Q	CLAY	Cy	B2		Bk			No core recovery.
Avebury	A176	59	59.3	Ogl	CARB	CyLi	A1		Bk			Gritty brown clay, some completely weathered lithic fragments, minor detrital quartz grains, some limestone clasts. Probably Quaternary cavern fill.
Avebury	A176	59.3	59.5	Q	CLAY	Cy	B2		Bk			Massive pale grey limestone, Gordon Group correlate. Heavily broken and some limonite alteration.
Avebury	A176	59.5	60.6	Ogl	CARB	CaLi	A2		Gr	Bd	45	Gritty brown clay, some completely weathered lithic fragments, minor detrital quartz grains, some limestone clasts. Possibly Quaternary cavern fill.
Avebury	A176	60.6	61.9	Ogl	CARB	CaLi	A2		Ft	Bd	60	Massive pale grey limestone, Gordon Group correlate. Relatively broken core. Some clay and limonite alteration. Competence increases downhole.
Avebury	A176	61.9	65.6		FALT	CyLi			Ft			Massive pale grey limestone, Gordon Group correlate. Relatively competent. Minor limonite alteration.
Avebury	A176	65.6	79.4	Ogl	CARB	CaCy	A2		Gr	Bd	45	Puggy brittle fault zone in limestone. Numerous brecciated zones with clay matrix, separated by small intervals of competent limestone.
Avebury	A176	79.4	85.4	Q	CLAY	Cy	B2		Gr	Bd	70	Pale grey Gordon Group correlate limestone. Core heavily fractured with numerous dissolution features and significant clay and limonite alteration. Sections of competent relatively unaltered core exist but none are more than about 1m long. Numerous crushed/brecciated zones. Zones are well bedded, others are massive with no discernable bedding. Includes 0.5m loss.
Avebury	A176	85.4	89.2	Ogl	CARB	Cy	B2		Ft	Bd	45	Pale brown unconsolidated Quaternary karst fill, clay dominated with numerous sub-angular to sub-rounded detrital quartz grains. Little calcite. Shell fragment observed at 80.7m. Large sub-rounded weathered lithic (sandstone?) clasts at top of interval. Zone of core loss of 1.5m contained within interval.
Avebury	A176	89.2	90.2		FALT	CyLi	B4		Ft			Massive brown clay, very minor carbonate. Residual bedding texture, probably represents completely weathered in-situ Gordon Group correlate limestone. Includes 1.0m of core loss.
												Puggy brittle fault, some clay, limonite and goethite alteration. Core heavily fractured.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A176	90.2	91.6	Oc	CONG	Cy	G3		Gr			Deeply weathered and altered conglomerate? Dark brown and green, clay alteration.
Avebury	A176	91.6	94.4	Oc	CONG	Ht	P2		Gr			Pale purple-grey polymictic lithic conglomerate. Clasts of sandstone, siltstone and chert, rare clasts of feldspar phyric basalt? Lightly hematite altered. Core heavily broken.
Avebury	A176	94.4	104	Oc	CONG	HtEp	P2	0.10	Gr			Pale purple-grey polymictic lithic conglomerate. Clasts of sandstone, siltstone rhyolite, chert, rare clasts of basalt? Lightly hematite altered. Some sericite. Minor veins of epidote, pyrite, magnetite and possibly sphalerite. Massive.
Avebury	A176	104	111.3	Oc	CONG	HtCh	P2		Gr			Pale purple-grey polymictic lithic conglomerate. Clasts of sandstone, siltstone rhyolite, chert. Very minor epidote alteration in matrix. Lightly hematite altered. Hematite alteration diminishes downhole. Some chlorite alteration in matrix.
Avebury	A176	111.3	120.3	Oc	CONG	Qz	A2		Ft			Pale grey polymictic lithic conglomerate. Clasts of sandstone, siltstone rhyolite, chert. Minor quartz veins. Massive.
Avebury	A176	120.3	122.2		FALT	Li	A2		Ft			Brittle fault in conglomerate. Core rubbly and broken. Limonite staining on fractures.
Avebury	A176	122.2	136.1	Oc	CONG		A3		Ft			Pale grey to dark grey polymictic lithic conglomerate. Clasts of sandstone, siltstone, chert, milky quartz and possible volcanogenic clasts. Massive.
Avebury	A176	136.1	137.2		FALT	Ch			Ft			Brittle fault in conglomerate. Core rubbly and broken. Some chlorite-calcite slickensides.
Avebury	A176	137.2	165.7	Oc	CONG	EpCa	A3	0.10	Ft	Bd	60	Pale grey to dark grey polymictic lithic conglomerate. Clasts of sandstone, siltstone, chert, milky quartz and possible volcanogenic clasts. Massive. Sorting improves downhole and clast alignment becomes pronounced, along with a general decrease in modal clast size. Bedding becomes apparent. Some disseminated and vein epidote-calcite-pyrite alteration including some clast replacement by pyrite at around 145.7m.
Avebury	A176	165.7	172.5	Oc	CONG	SiEp	A2		Bk	Bd	45	Pale grey altered conglomerate with lesser sandstone and siltstone. Intense silica-sericite-epidote-chlorite alteration. Minor graded beds with silty tops suggest younging uphole.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A176	172.5	175	Oc	CONG	Ca	W		Bk			In brecciated conglomerate, this interval is dominated by a massive white coarse grained calcite vein that makes up half of the interval. The remainder is massive brecciated conglomerate.
Avebury	A176	175	181.4		FALT	Li			Ft			Brittle fault zone. Core is broken and rubbly with limonite alteration indicating circulating groundwater. Probably several small faults rather than a single large fault.
Avebury	A176	181.4	190.5	Oc	CONG	SiCh	A3		Gr	Bd	30	Pale grey to dark grey polymictic lithic conglomerate. Graded sandy interbeds suggest younging uphole. Some silica-chlorite-sericite alteration, increasing downhole.
Avebury	A176	190.5	196.2	Oc	CONG	SiSe	A2	0.20	Sp			Pale grey intensely altered rock, precursor probably conglomerate. Intense silica-sericite alteration, largely texturally destructive. Minor pyrite-hematite.
Avebury	A176	196.2	199.7		SKRN	ChEp	G3	0.50	Ft			Pale grey to mid green intensely altered and metasomatised rock. Intense actinolite-chlorite-epidote (?) alteration, some magnetite, pyrite, pyrrhotite and sericite. Brecciated banding may represent original sedimentary textures.
Avebury	A176	199.7	201.7	Csu	SKSP	EpCa	A1		Sp			Pale grey to pale green intensely metasomatised ultramafics (?). Intense silica-epidote-calcite-siderite alteration with minor zaratite. Minor stylolitic tourmaline.
Avebury	A176	201.7	205.2	Csu	CARB	CaEp	A3	1.00	Sp			Dark grey intensely carbonate altered ultramafics (?). Rock is largely calcite and/or dolomite, with disseminated magnetite, minor chalcopyrite and a brassy sulphide. Patches have a gabbroic texture which may indicate a precursor.
Avebury	A176	205.2	206.5	Csu	SKRN	TmEp	G1		Gr			Very pale green intensely altered and metasomatised ultramafics (?). Intense tremolite-epidote (?) alteration. Minor stylolitic tourmaline and very minor zaratite.
Avebury	A176	206.5	209.9	Csu	CARB	CaEp	A3	3.00	Sp			Dark grey intensely carbonate altered ultramafics (?). Rock is largely calcite and/or dolomite, with disseminated and vein magnetite and sulphide. The sulphide is brassy and probably pyrrhotite. Patchey gabbroic texture may indicate a precursor lithology but textures are largely destroyed.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A176	209.9	215	Cba	VBLM	AcSi	G3	2.00	Gr			Intensely altered and metasomatised basaltic volcanoclastic sandstone (?). Intense actinolite-silica-chlorite-epidote-siderite alteration with minor calcite. Disseminated and vein pyrite and pyrrhotite. Some brecciated textures but appears largely to have been a volcanogenic sandstone.
Avebury	A176	215	218.9	Cba	VBLF	PhAc	B4	2.00	Sp	Bd	45	Intensely altered siltstone. Intense pervasive phlogopite alteration. Some brecciation and actinolite alteration. Disseminated and vein pyrite common. Bedding is hard to distinguish. Probably basaltic volcanoclastic.
Avebury	A176	218.9	221.7	Cba	VBLB	AcSi	G3	1.00	Sp			Intensely altered basaltic volcanoclastic breccia. Intense actinolite alteration, lesser zone of intense calcite alteration. Minor siderite, diopside. Small amounts of sulphide including pyrite, pyrrhotite, and possibly very minor chalcopyrite and galena.
Avebury	A176	221.7	226.6	Ccc	GWAC	PhAc	B4	1.00	Gr	Bd	0	Intensely altered feldspar lithic greywacke and siltstone (?). Intense pervasive phlogopite alteration. Bedding varies from 0 (parallel to core axis) to 20 degrees. Bedding commonly disrupted. Disseminated pyrite. Final 0.4m has no phlogopite.
Avebury	A176	226.2	228.1	Cba	VBLM	AcDi	G3	0.20	Gr			Intensely altered basaltic volcanoclastic breccia. Intense actinolite alteration, with diopside overprinting. Very minor sulphide, possibly chalcopyrite.
Avebury	A176	228.1	238.7	Cba	VBLF	PhAc	B4	0.50	Gr	Bd	60	Massive, dark brown intensely altered basaltic volcanoclastics. Predominantly fine grained (greywacke and siltstone) with some brecciated textures. Intense pervasive phlogopite alteration with lesser actinolite alteration. Minor disseminated and vein pyrite.
Avebury	A176	238.7	246.5	Cba	CONG	AcDi	G3		Sp			Massive, intensely altered basaltic (?) conglomerate. Intense actinolite alteration with diopside overprinting, particularly in the matrix. Polymictic clasts of chert, siltstone, rhyolite. Similar to VBLB with more rounded clasts.
Avebury	A176	246.5	249.5	Csu	SKSP	MtEp	G4	2.00	Gr			Dark grey to mottled green-grey intensely metasomatised ultramafics (?). Massive and disseminated magnetite alteration, epidote-diopside-tremolite (?) alteration. Abundant pyrrhotite associated with massive magnetite, chalcopyrite rims on some pyrrhotite grains.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A176	249.5	256.3	Csu	CARB	CaEp	A3	3.00	Ft			Dark grey intensely carbonate altered ultramafics (?). Rock is largely calcite and/or dolomite, with disseminated and vein magnetite and sulphide. The sulphide is brassy and probably pyrrhotite. Some chalcopyrite is also present. Patchy epidote-chlorite-talc alteration.
Avebury	A176	256.3	256.4		FALT	CaCh						Brittle fault with minor calcite and chlorite alteration
Avebury	A176	256.4	264.2	Cba	VBLB	AcDi	G3	0.50	Gr	Bd	40	Massive, mid green intensely altered basaltic volcanoclastics. Predominantly brecciated with some fine grained (laminated siltstone) interbeds. Intense pervasive actinolite-diopside alteration. Bedding commonly disrupted. Minor pyrite and chalcopyrite. Some chlorite alteration and calcite veins.
Avebury	A176	264.2	277.1	Ccc	GWAC	PhAc	B3		Gr	Bd	30	Massive dark brown intensely phlogopite altered feldspar lithic greywacke with lesser laminated siltstone. Siltstone bedding is commonly brecciated and disrupted. Patchy intense actinolite alteration
Avebury	A176	277.1	292.8	Cba	VBLB	AcDi	G3	0.05	Gr	Bd	30	Massive, mid green intensely altered basaltic volcanoclastics. Predominantly brecciated with some fine grained (laminated siltstone and greywacke) zones. Intense pervasive actinolite-diopside alteration. Bedding commonly disrupted. Minor patchy phlogopite alteration. Very minor disseminated chalcopyrite.
Avebury	A176	292.8	294.9	Cba	SILT	PhAc	B3	0.50	Sp	Bd	30	Massive dark brown intensely phlogopite altered laminated siltstone with lesser intense actinolite-diopside alteration. Bedding commonly brecciated. Minor disseminated chalcopyrite.
Avebury	A176	294.9	295.3	Cbg	GABB	ChAc	G4		Gr			Massive dark green feldspar phyric gabbro, pervasive chlorite-actinolite-calcite alteration.
Avebury	A176	295.3	308.4	Cba	SILT	PhAc	B3	0.50	Sp	Bd	30	Massive dark brown intensely phlogopite altered laminated siltstone with short intervals of intensely actinolite altered VBLB (?) and a small zone (20cm) of polymictic lithic conglomerate. Bedding usually around 30 but somewhat inconsistent and disrupted. Late calcite vein breccia. Common pyrrhotitic veins increasing in frequency downhole.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A176	308.4	321.4	Cdg	CONG	AcDi	G3	0.50	Ft			Massive, mid green intensely altered lithic conglomerate and siltstone. Predominantly coarse grained (breccia and conglomerate) with lesser laminated siltstones, with contorted and disrupted bedding. Intense phlogopite alteration in silty intervals. Minor disseminated pyrrhotite and possibly pyrite. Large clasts of dolerite/gabbro and several clasts that may be an intermediate intrusive(?) or rhyolite. Intense actinolite alteration throughout.
Avebury	A176	321.4	322.7		FALT	AcCa	A2		Ft			Brittle fault zone. Calcite-zeolite (?) vein fill. Late phrenite alteration.
Avebury	A176	322.7	325.5	Cba	VBLB	AcDi	G3		Ft			Massive, mid green intensely altered basaltic volcanoclastic breccia. Intense pervasive actinolite alteration with minor diopside.
Avebury	A176	325.5	325.7		FALT	Ca	A2		Ft			Brittle fault, fill of unidentified elongate tabular colourless mineral with minor calcite.
Avebury	A176	325.7	340.7	Cba	VBLB	AcDi	G2		Sp			Massive mid green to mid grey intensely altered and metasomatised basaltic volcanoclastic breccia, possibly conglomerate. Intense actinolite-diopside alteration with late phrenite retrogression and some skarn metasomatism, minor fine grained axinite (?) and tremolite.
Avebury	A176	340.7	342.5	Cba	SKRN	AxCa	P2		Sp			Massive intensely skarn altered basaltic volcanoclastic breccia(?). Coarse crystalline axinite and lesser calcite. Patches less effected by skarn alteration are actinolite altered with chlorite overprinting.
Avebury	A176	342.5	351.8	Csu	SKSP	TmMt	G1	0.50	Sp			Massive pale green intensely metasomatised ultramafics. Intense pervasive tremolite-epidote? metasomatism. Minor disseminated magnetite and 0.5-1% of a brassy sulphide, disseminated and in late crosscutting veins.
Avebury	A176	351.8	353.5	Cdg	CONG	Ac	B3		Sp			Massive mid red-brown to grey, mottled, indurated altered polymictic lithic conglomerate(?). Consists of large clasts (?) of rhyolite or an intermediate intrusive in an actinolite altered matrix. Pale rims of metamorphic feldspar? around ferromagnesian minerals in the clasts. Minor epidote and calcite. No sulphide or magnetite.
Avebury	A176	353.5	354.6	Csu	SKSP	TmMt	G1	0.50	Gr			Massive pale green intensely metasomatised ultramafics. Intense tremolite metasomatism. Disseminated magnetite and 0.5% disseminated sulphide.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A176	354.6	356.4	Csu	SERP	MtTm	A4	0.50	Gr			Massive mottled dark grey and green serpentinite. Patchy massive magnetite and stylolitic magnetite veins. Some tremolite alteration. Minor disseminated brassy sulphide.
Avebury	A176	356.4	364.2	Csu	SKSP	TmMt	A3	0.50	Ft			Massive skarnified serpentinite. Varies from pale green-grey intense tremolite-epidote alteration to mid green epidote alteration to mottled black and white tremolite-serpentine, to small patches of relatively unaltered serpentinite. Magnetite common throughout as disseminations and veins, some stylolitic. Minor sulphide disseminated throughout.
Avebury	A176	364.2	364.3		FALT	CaEp			Ft			Brittle puggy fault with calcite fill
Avebury	A176	364.3	366	Csu	SKSP	TmMt	G1	0.50	Gr			Massive pale green intensely metasomatised serpentinite. Intense tremolite metasomatism. Disseminated magnetite and 0.5% disseminated sulphide.
Avebury	A176	366	368.3	Csu	SKSP	TmMt	A2	2.00	Gr			Massive mottled green-grey intensely metasomatised serpentinite. Strong tremolite alteration. Disseminated magnetite and 2% disseminated sulphide.
Avebury	A176	368.3	371.4	Csu	SERP	Sp	A5	2.00	Gr			Massive black serpentinite. 1-2% disseminated sulphide (py-po-pt?) intergrown with coarse disseminated magnetite. Core quite rubbly and broken in patches.
Avebury	A176	371.4	392.7	Csu	SERP	Sp	A5	0.50	Ft			Massive black serpentinite. Minor crosscutting chrysotile-talc veins. Disseminated magnetite present but relatively sparse.
Avebury	A176	392.7	394.2		FALT	SpTc			Ft	Ft	45	Brittle fault in serpentinite. Very large chrysotile fibres present, parallel to movement (45 degrees to core axis). Core rubbly.
Avebury	A176	394.2	396.5	Csu	SERP	Sp	A5	0.50	Ft			Massive black serpentinite. Minor crosscutting chrysotile-talc veins. Disseminated magnetite present but relatively sparse. Minor disseminated sulphide.
Avebury	A176	396.5	396.6		FALT	SpTc			Ft	Ft	45	Brittle puggy fault in serpentinite. Loosely consolidated fault breccia.
Avebury	A176	396.6	399.9	Csu	SERP	Sp	A5	0.50	Ft			Massive black serpentinite. Minor crosscutting chrysotile-talc veins. Disseminated magnetite present but relatively sparse. Minor disseminated sulphide.
Avebury	A176	399.9	400.1		FALT	SpTc			Ft	Ft	45	Brittle puggy fault in serpentinite. Core rubbly, brecciated, some talc alteration.
Avebury	A176	400.1	418	Csu	SERP	Sp	A5	0.50	Ft			Massive black serpentinite. Minor crosscutting chrysotile-talc veins. Disseminated magnetite present but relatively sparse. Minor disseminated sulphide. Large chrysotile fibres common on joint planes.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A176	418	418.2		FALT	SpCa			Ft			Brittle fault in serpentinite. Puggy clay surrounding brecciated serpentinite, some calcite veining and alteration.
Avebury	A176	418.2	427	Csu	SERP	Sp	A5	0.50	Gr			Massive black serpentinite. Minor crosscutting chrysotile-talc veins. Disseminated magnetite present. Minor disseminated sulphide. Large chrysotile fibres common on joint planes, along with minor talc alteration.
Avebury	A176	427	428.8	Csu	SERP	SpCa	A5	5.00	Sp			Massive black serpentinite. Core relatively broken, crosscutting calcite veins including some vein brecciation. Minor talc alteration. Two sulphides are present, including euhedral and deformed pyrite on fractures, but the bulk is a pinkish brassy sulphide. 0.1m from 428.2m is very strongly mineralised (20% sulphide). May also be minor chalcopyrite present (yellow-brassy vein).
Avebury	A176	428.8	429.8	Csu	SKSP	Tm	A2	5.00	Sp			Pale grey-mottled skarnified serpentinite. Intense tremolite alteration. 5% disseminated brassy sulphide, probably pentlandite.
Avebury	A176	429.8	434.1	Cba	VBLB	AcDi	G2	0.10	Gr			Pale grey-mid green mottled intensely altered basaltic volcanoclastic breccia. Intense actinolite-diopside alteration, some skarn style overprinting, minor axinite, calcite, tremolite-phrenite (?). Large disseminated sphalerite (?) crystals associated with axinite, but not volumetrically significant.
Avebury	A176	434.1	435.4	Cba	CONG	AcDi	G3	2.00	Gr			Mid green intensely altered polymictic lithic conglomerate. Intense actinolite alteration with some diopside overprinting. Approx 2% brassy sulphide in veins, disseminations and as clast replacement. Also minor pyrite and possibly very minor chalcopyrite. There is a very small zone (<10cm) that may be altered ultramafic, possibly a narrow shoot off the main intrusive?
Avebury	A176	435.4	444.2	Cdu	CONG	AcDi	G3		Sp			Mid green intensely altered polymictic lithic conglomerate. Intense actinolite-diopside alteration. Rock is silicified and indurated. Veins of calcite common, also lesser veins of quartz and apophyllite. Minor axinite.
Avebury	A176	444.2	445.1	Cba	VBLF	TmAc	G2		Sp			Pale green intensely altered basaltic volcanoclastic? Rock is composed of large radial aggregates of fibrous tremolite (?) and actinolite. Stylolitic tourmaline and calcite veins.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A176	445.1	453	Cdu	CONG	AcDi	G3		Ft			Mid green intensely altered polymictic lithic conglomerate. Intense actinolite-diopside alteration. Rock is silicified and indurated. Veins of calcite common.
Avebury	A176	453	453.9		FALT	Ca			Ft			Slightly vuggy brittle fault. Coarse and fine grained calcite fill.
Avebury	A176	453.9	467.8	Cdu	CONG	AcDi	G3		Gr			Mid green intensely altered polymictic lithic conglomerate. Intense actinolite-diopside alteration. Rock is silicified and indurated. Veins of calcite common.
Avebury	A176	467.8	475.4	Cdu	SILT	SiDi	P2		Ft			Zones of silica flooding, associated with pyrite, chalcopyrite and a brassy sulphide around 463.7m. Small patches of radial aggregates of fibrous tremolite (?). Short sections of laminated siltstone and sandstone.
Avebury	A176	475.4	475.6		FALT	TcCa		0.50	Ft			30 Intensely altered laminated siltstone and sandstone with minor brecciated zones. Intense silica alteration in fine grained sedimentary rocks, often with a purple tinge. Intense actinolite alteration in breccia, and diopside overprinting throughout. Bedding somewhat brecciated and disrupted.
Avebury	A176	475.6	488.5	Cdu	SILT	SiDi	B2	0.20	Ft			30 Brittle fault. Strong brecciation on edges, talc and calcite fill, minor sulphide chalcopyrite-pyrite-phyrrhotite(?).
Avebury	A176	488.5	488.9		FALT	CaCy						Intensely altered laminated siltstone and sandstone with minor brecciated zones. Intense silica alteration in fine grained sedimentary rocks, often with a purple tinge. Intense actinolite alteration in breccia, and diopside overprinting throughout. Bedding somewhat brecciated and disrupted. Some phlogopite alteration, increasing downhole. Bedding is gently folded with an interlimb angle of around 120 degrees. Fold hinge at around 483.5m. Minor disseminated and vein po-py.
Avebury	A176	488.9	563.8	Cdu	SILT	PhAc	B3	0.20				30 Puggy brittle fault. Abundant calcite fill, minor clay alteration. Brecciated. Intensely altered laminated siltstone and sandstone. Patchy intense phlogopite alteration with minor actinolite and diopside. Disseminated and vein pyrrhotite. Intense silicification, increasing downhole. Conflicting facing information with relatively consistent BCAs suggest the hole crosses one or more folds with interlimb angles of around 120 degrees (BCA generally 20-30). Fold axis probably between about 536 and 542m. Late calcite veining.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
Avebury	A176	563.8	573.2	Csu	SERP	TmTc	A5	1.00	Ft			Massive black serpentinite to mottled green moderately altered serpentinite. Patchy strong tremolite-talc-chlorite alteration. Numerous talc veins. Minor late calcite veins. Little disseminated sulphide but several patches of large sulphide aggregations, including a semi-massive patch at about 569.6m.
Avebury	A176	573.2	574.6		FALT	CaTc			Ft			Sulphide is fleshy-brassy coloured and non-magnetic, probably pentlandite. Puggy brittle fault in serp. Extensive calcite alteration, particularly as matrix in fault breccia. Some competent cemented breccia, some unconsolidated puggy rubble with talc alteration. Some late pyrite associated with calcite.
Avebury	A176	574.6	592.7 EOH	Csu	SKSP	TmCh	G3	0.50				Massive black to green and mottled green skarnified serpentinite, with lesser relatively unaltered serpentinite. Common tremolite alteration. Minor zaratite. Stylolitic tourmaline veins common. Several vuggy-leached patches. Common small black euhedral to subhedral disseminated grains, probably chromite (some grains clearly cubic). Sulphide, where present, tends to occur in largish aggregations rather than as regular disseminations. Late calcite veins, also quartz veins and veins of a moderately hard white mineral that does not react to acid even when powdered.

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
East_Avet	A176	197	198	0.03				-50	-20	1.0	10.0	5.6			
East_Avet	A176	198	199	0.06				150	40	0.5	9.0	11.1			
East_Avet	A176	199	200	0.10				250	40	-0.1	8.6	9.2			
East_Avet	A176	200	201	0.07				250	-20	-0.1	12.3	2.6			
East_Avet	A176	201	202	0.22				100	100	0.9	8.3	9.2			
East_Avet	A176	202	203	0.13				-50	20	0.4	11.6	6.8			
East_Avet	A176	203	204	0.14				-50	60	0.7	11.6	7.2			
East_Avet	A176	204	205	0.15				-50	60	0.9	11.6	7.3			
East_Avet	A176	205	206	0.11				100	40	-0.1	8.7	7.9			
East_Avet	A176	206	207	0.17				50	100	1.9	8.2	11.2			
East_Avet	A176	207	208	0.11				-50	40	1.4	11.1	8.3			
East_Avet	A176	208	209	0.14				-50	40	1.9	10.5	8.7			
East_Avet	A176	209	210	0.09				-50	-20	0.8	9.5	6.1			
East_Avet	A176	210	211	0.08				-50	60	0.3	8.1	12.4			
East_Avet	A176	211	212	0.05				-50	20	0.6	6.2	8.3			
East_Avet	A176	246	247	0.05				-50	120	0.5	10.2	18.0			
East_Avet	A176	247	248	0.17				50	300	2.8	10.8	27.2			
East_Avet	A176	248	249	0.05				100	40	0.1	12.5	12.0			
East_Avet	A176	249	250	0.03				50	-20	-0.1	10.8	4.4			
East_Avet	A176	250	251	0.08				-50	-20	0.3	10.8	5.1			
East_Avet	A176	251	252	0.07				-50	-20	0.1	11.4	5.6			
East_Avet	A176	252	253	0.07				50	-20	0.4	6.5	5.4			
East_Avet	A176	253	254	0.26				-50	180	0.7	10.1	5.1			
East_Avet	A176	254	255	0.20				-50	80	0.6	10.5	5.9			
East_Avet	A176	255	256	0.74				-50	500	4.6	9.0	10.7			
East_Avet	A176	256	257	0.14				-50	60	0.6	6.1	5.7			
East_Avet	A176	257	258	0.03				-50	20	-0.1	7.4	7.8			
East_Avet	A176	341	342	0.04				150	-20	-0.1	3.2	4.6			
East_Avet	A176	342	343	0.10				500	-20	-0.1	9.6	5.8			
East_Avet	A176	343	344	0.11				400	-20	-0.1	13.7	1.8			
East_Avet	A176	344	345	0.16				1000	-20	-0.1	13.7	0.9			
East_Avet	A176	345	346	0.31				400	-20	0.1	14.2	1.2			
East_Avet	A176	346	347	0.20				750	-20	-0.1	14.2	1.3			

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
East_Avet	A176	347	348	0.26				750	-20	0.1	14.1	1.3			
East_Avet	A176	348	349	0.21				400	-20	0.1	14.2	1.2			
East_Avet	A176	349	350	0.26				100	-20	0.1	13.4	2.6			
East_Avet	A176	350	351	0.10				350	-20	-0.1	14.4	2.2			
East_Avet	A176	351	352	0.15				200	-20	-0.1	16.4	6.0			
East_Avet	A176	352	353	0.09				-50	20	-0.1	10.1	6.7			
East_Avet	A176	353	354	0.09				100	-20	-0.1	11.0	4.1			
East_Avet	A176	354	355	0.15				250	-20	-0.1	23.0	5.1			
East_Avet	A176	355	356	0.15				100	140	0.1	28.3	20.2			
East_Avet	A176	356	357	0.38				300	220	0.7	17.2	11.7			
East_Avet	A176	357	358	0.14				100	60	0.3	11.2	5.7			
East_Avet	A176	358	359	0.06				200	-20	-0.1	13.2	2.5			
East_Avet	A176	359	360	0.09				250	-20	-0.1	18.0	5.6			
East_Avet	A176	360	361	0.09				100	60	-0.1	27.9	10.7			
East_Avet	A176	361	362	0.09				400	20	-0.1	23.0	8.1			
East_Avet	A176	362	363	0.08				50	40	-0.1	27.3	9.7			
East_Avet	A176	363	364	0.05				150	-20	0.2	22.7	5.8			
East_Avet	A176	364	365	0.13				300	-20	0.2	15.2	2.2			
East_Avet	A176	365	366	0.09				1000	-20	-0.1	15.3	1.4			
East_Avet	A176	366	367	0.08				200	-20	1.2	14.4	5.3			
East_Avet	A176	367	368	0.05				50	-20	0.4	18.1	6.0			
East_Avet	A176	368	369	0.27				1150	100	0.7	30.9	12.4			
East_Avet	A176	369	370	0.31				50	180	0.6	42.7	9.6			
East_Avet	A176	370	371	0.50				50	180	0.6	43.2	9.5			
East_Avet	A176	371	372	0.44				600	120	0.2	41.6	6.5			
East_Avet	A176	372	373	0.13				200	20	-0.1	37.2	4.4			
East_Avet	A176	426	427	0.18				-50	60	0.1	46.2	7.3			
East_Avet	A176	427	428	0.21				50	120	0.2	42.2	8.7			
East_Avet	A176	428	429	0.55				-50	640	6.3	29.5	17.3			
East_Avet	A176	429	430	0.42				250	220	2.2	15.6	6.7			
East_Avet	A176	430	431	0.03				50	-20	0.1	6.1	5.7			
East_Avet	A176	434	435	0.06				100	60	0.4	8.0	8.5			
East_Avet	A176	435	436	0.05				150	40	-0.1	7.4	7.5			

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A177	0	2		LOSS							No core recovery
East_Av	A177	2	3.3		CLAY	CyLi	O3		Bk			Orange-brown clay, intensely weathered.
East_Av	A177	3.3	5		LOSS							No core recovery
East_Av	A177	5	7	Cba	VBLM	CyLi	O3		Bk	Bd	60	Intensely weathered volcanoclastic sandstone? Relict bedding preserved, but rock is almost completely altered to clay-limonite-geothite.
East_Av	A177	7	9.3		CLAY	Cy	O3		Bk			Orange-brown clay, intensely weathered.
East_Av	A177	9.3	11		LOSS							No core recovery
East_Av	A177	11	12.4	Cba	VBLM	CyLi	A3		Gr	Bd	60	Heavily weathered grey-orange interbedded sandstone and siltstone? Minor vein and disseminated(?) magnetite, boxwork textures in vein and sulphide tarnish stain on some fractures, may be from circulating groundwater rather than in-situ weathering of sulphide
East_Av	A177	12.4	13.5		CLAY	Cy	O3		Bk			Orange-brown clay, intensely weathered. Some more competent pieces of intensely weathered rock.
East_Av	A177	13.5	16.3	Cba	VBLB	CyLi	G3		Bk			Pale green-grey to orange, heavily weathered rock and clay. Strong chlorite alteration in residual rock, texture suggests unweathered rock may have been volcanoclastic breccia, or strongly brecciated siltstone/sandstone.
East_Av	A177	16.3	17		LOSS							No core recovery
East_Av	A177	17	18.9		CLAY	Cy	O3		Bk			Orange-brown clay, intensely weathered.
East_Av	A177	18.9	20		LOSS							No core recovery
East_Av	A177	20	26.6	Cba	VBLM	CyLi	B4		Gr	Bd	45	Dark brown intensely weathered, interbedded volcanoclastic sandstone and siltstone. Residual rock fragments have inconsistent bedding, from 30-45-70. All core < 10cm, some rubble and generally poor core recovery. Dark brown colour given by manganese in circulating groundwater (?).
East_Av	A177	26.6	28.5	Cba	VBLM	LiCh	B3		Bk	Bd	60	Dark brown intensely weathered, interbedded volcanoclastic sandstone and siltstone. Weathering intensity decreasing, and bedding consistent at around 60. Core heavily broken with poor recovery (includes 0.9m loss).
East_Av	A177	28.5	33.7	Ccc	GWAC	PhCh	A3		Ft	Bd	45	Massive dark grey hornfelsed feldspar phyrlic lithic greywacke with minor interbedded siltstone. Moderate phlogopite alteration and chlorite alteration. Numerous fractures, which have limonite staining.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A177	33.7	33.8		FALT	CyLi	A1		Ft			Puggy brittle fault. Pale grey clay gouge.
East_Av	A177	33.8	35.7	Cba	VBLF	AcPh	A3		Gr	Bd	40	Massive mid-grey basaltic volcanoclastic siltstone and minor sandstone (greywacke). Moderate phlogopite alteration, intense actinolite alteration with minor diopside overprinting. Bedding is strongly disrupted. Numerous pale (diopside?) veins.
East_Av	A177	35.7	42	Ccc	GWAC	PhCh	B3		Ft	Bd	45	Massive mid brown hornfelsed feldspar phyrlic lithic greywacke with minor interbedded silstone. Strong phlogopite alteration in greywacke and minor actinolite-chlorite alteration. Core heavily broken.
East_Av	A177	42	43		FALT	ChCy	A2		Ft	Ft	60	Brittle fault in pale grey shale interval. Minor chlorite and clay alteration.
East_Av	A177	43	46	Ccc	GWAC	PhCh	B3	0.50	Ft	Bd	45	Massive mid brown hornfelsed feldspar phyrlic lithic greywacke with interbedded silstone. Strong phlogopite alteration in greywacke and lesser actinolite-chlorite-pyrite alteration.
East_Av	A177	46	46.3		FALT	PhCh			Ft	Ft	60	Brittle fault. Core rubbly but little alteration.
East_Av	A177	46.3	49.6	Ccc	VBLB	PhCh	B3	0.50	Gr	Bd	45	Massive mid brown hornfelsed volcanoclastic breccia with minor greywacke and interbedded silstone. Breccia has actinolite alteration in some large basaltic clasts and intense phlogopite flooding in matrix, other zones are completely phlogopite altered. Disseminated pyrite common.
East_Av	A177	49.6	51.4	Cba	VBLB	AcDi	G3	1.00	Gr	Bd	45	Massive mid-green intensely altered basaltic volcanoclastic breccia. Intense actinolite alteration with minor diopside overprinting. Minor laminated siltstone with phlogopite alteration. Common disseminated pyrite.
East_Av	A177	51.4	59.1	Ccc	GWAC	PhAc	B3	0.10	Gr	Bd	60	Massive mid brown hornfelsed feldspar lithic greywacke with lesser brecciated intervals and interbedded silstone. Some graded beds with silty tops younging downhole. Intense pervasive phlogopite alteration, lesser actinolite alteration. Minor disseminated pyrite.
East_Av	A177	59.1	64.5	Cba	VBLB	AcDi	G3	1.00	Sp			Massive mid-green intensely altered basaltic volcanoclastic breccia. Intense actinolite alteration with minor diopside overprinting. Minor laminated siltstone with phlogopite alteration. Common disseminated pyrite.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A177	64.5	67.7	Ccc	GWAC	PhAc	B3	0.10	Gr	Bd	60	Massive mid brown hornfelses feldspar lithic greywacke with lesser brecciated intervals and interbedded siltstone. Intense pervasive phlogopite alteration and small zones of intense actinolite alteration. Greywacke is cut by large numbers of stylolitic veins of an unidentified black fine grained material.
East_Av	A177	67.7	76	Ccc	SILT	PhAc	B3	0.30	Ft	Bd		Intensely phlogopite altered laminated siltstone with lesser intervals of intensely phlogopite altered feldspar lithic greywacke. Small zones of brecciation with intense actinolite-chlorite-pyrite alteration. Some disseminated pyrite.
East_Av	A177	76	78.8		FALT	SeCy			Ft		45	Brittle fault. Rock is highly fragmented but alteration is limited. Some sericite and minor clay
East_Av	A177	78.8	80.1	Ccc	VBLB	PhAc	B3		Ft			Massive mid brown hornfelses volcanoclastic breccia with lesser laminated siltstone (transitional to siltstone). Breccia has actinolite-diospide alteration in clasts and intense phlogopite flooding in matrix, other zones are completely phlogopite altered.
East_Av	A177	80.1	82.8		FALT	Cy			Ft			Brittle fault zone. Rock is highly fragmented but alteration is limited. Some clay (may be gouge).
East_Av	A177	82.8	84.7	Ccc	GWAC	PhAc	B3		Ft			Massive mid brown hornfelses feldspar lithic greywacke with lesser brecciated intervals and interbedded siltstone. Intense pervasive phlogopite alteration and small zones of intense actinolite alteration.
East_Av	A177	84.7	84.9		FALT				Ft			Small brittle fault. Pale grey surface coating of unknown composition but little other alteration.
East_Av	A177	84.9	86.2	Ccc	GWAC	PhAc	B3		Ft			Massive mid brown hornfelses feldspar lithic greywacke with lesser brecciated intervals and interbedded siltstone. Intense pervasive phlogopite alteration and small zones of intense actinolite alteration.
East_Av	A177	86.2	87.8		FALT	LiCh			Ft			Brittle fault zone. Minor limonite and chlorite alteration.
East_Av	A177	87.8	92.3	Ccc	VBLB	PhAc	B3	0.10	Gr			Massive mid brown hornfelses volcanoclastic breccia with lesser laminated siltstone and greywacke. Breccia has actinolite-chlorite alteration in some clasts and intense phlogopite flooding in matrix, other zones are completely phlogopite altered. Very minor disseminated sulphide (chalcopyrite).

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A177	92.3	96.5	Cba	VBLB	AcCh	G3		Bk	Bd	45	Massive basaltic volcanoclastic breccia with minor sandstone and siltstone. Intense actinolite-chlorite alteration.
East_Av	A177	96.5	100.1	Cba	VBFF	AcCh	G3		Ft			Massive intensely altered basalt. Intense actinolite-chlorite alteration.
East_Av	A177	100.1	101.3		FALT	Cy			Ft			Brittle fault, core very rubbly, powdery patches (minor clay alteration)
East_Av	A177	101.3	113	Cba	VBLB	AcCh	G3		Ft			Massive basaltic volcanoclastic breccia with minor sandstone (greywacke). Intense actinolite-chlorite alteration. Minor phlogopite alteration. Some leached vuggy zones.
East_Av	A177	113	115.2		FALT	AcCh			Ft			Brittle fault, core very rubbly, poor recovery
East_Av	A177	115.2	118.3	Cba	VBLB	AcPh	G3		Ft	Bd	35	Massive basaltic volcanoclastic breccia with minor sandstone and siltstone. Intense actinolite-phlogopite alteration and minor diopside overprint. Siltstone well bedded but bedding is commonly disrupted.
East_Av	A177	118.3	118.9		FALT	AcCh			Ft			Brittle fault, core very rubbly, poor recovery.
East_Av	A177	118.9	125.4	Cba	VBLB	AcPh	G3		Ft			Massive basaltic volcanoclastic breccia with minor sandstone and siltstone. Intense actinolite-phlogopite alteration and moderate diopside overprint.
East_Av	A177	125.4	126.4		FALT	AcCy			Ft			Brittle fault, core very rubbly, some clay alteration. Core is leached and vuggy.
East_Av	A177	126.4	137.5	Cba	VBLB	AcDi	G3		Ft			Massive basaltic volcanoclastic breccia. Mid-green, intense actinolite alteration with lesser diopside. Some very large actinolite laths present in some clasts suggest replacement of a coarse grained pre-cursor such as gabbro or dolerite.
East_Av	A177	137.5	141.8		FALT	Cy			Ft			Brittle fault, core very rubbly and broken. Some gritty clay fill.
East_Av	A177	141.8	149	Cba	VBLB	AcDi	G3		Ft			Massive basaltic volcanoclastic breccia. Mid-green, intense pervasive actinolite alteration. Late veins of a moderately reactive brownish carbonate, possibly impure calcite (iron-rich?).
East_Av	A177	149	149.9		FALT	Cy			Ft			Brittle fault, core very rubbly and broken. Some clay gouge in breccia matrix.
East_Av	A177	149.9	156.8	Cba	VBLB	AcDi	G3		Ft			Massive basaltic volcanoclastic breccia. Mid-green, intense pervasive actinolite alteration. Minor diopside alteration. Possibly a small amount of axinite downhole.
East_Av	A177	156.8	157.2		FALT	Ch			Ft			Brittle fault, somewhat mylonitic appearance, brown chlorite alteration. Core quite broken.

Alliance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A177	157.2	159.6	Csu	CARB	CaCh	G3	1.00				Mottled green and pale grey carbonate. Intense calcite-chlorite alteration of ultramafic precursor? Minor disseminated red (iron-rich) sphalerite.
East_Av	A177	159.6	181.7	Csu	CARB	CaSi	G2	0.50	Gr			Massive mottled green and pale grey carbonate. Intense calcite-chlorite alteration of ultramafic precursor? Patches of silica flooding associated with sericite. Minor sulphide (pyrite-pyrrhotite-sphalerite) and magnetite. Stylolitic tourmaline veins and patches of massive fine grained schorl tourmaline.
East_Av	A177	181.7	203.8	Cba	VBLM	AcDi	G3		Gr			Massive mottled green and pale grey to cream, intensely altered and metasomatised basaltic volcanoclastic breccia. Intense pervasive actinolite alteration with lesser amounts of diopside, epidote, calcite and possibly phrenite. Some patches contain numerous sericite pseudomorphs of feldspar(?).
East_Av	A177	203.8	246.9	Cba	VBLM	AcEp	G3		Gr			Massive mottled green and pale grey to purplish, intensely altered and metasomatised basaltic volcanoclastic breccia. Intense pervasive actinolite alteration with lesser amounts of diopside, epidote, calcite and possibly axinite, but very fine grained. Several zoned calcite-dolomite veins indicate several stages of vein growth.
East_Av	A177	246.9	257	Csu	CARB	CaEp	G3	1.00	Sp			Mottled green and pale grey carbonate. Intense calcite-epidote-talc alteration of ultramafic precursor. Minor disseminated red (iron-rich) sphalerite, minor zaratite, nickelite and a brassy sulphide, either pyrrhotite or pentlandite. Lower contact is intermixed with country rock over approx 1m.
East_Av	A177	257	262.9	Cba	VBLM	AcEp	G3		Gr			Massive mottled green and pale grey to purplish, intensely altered and metasomatised basaltic volcanoclastic breccia. Intense pervasive actinolite alteration with lesser amounts of diopside, epidote, calcite and possibly axinite, but very fine grained.
East_Av	A177	262.9	270	Csu	CARB	CaEp	G3	1.50	Ft			Mottled green and pale grey carbonate. Intense calcite-epidote alteration of ultramafic precursor. Disseminated brassy sulphide, probably pentlandite. Minor tourmaline.
East_Av	A177	270	270.3		FALT	ChTc			Ft			Puggy brittle fault, extensive chlorite-talc alteration

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A177	270.3	272.5	Csu	CARB	CaEp	G3	0.50	Ft			Mottled green and pale grey carbonate. Intense calcite-epidote alteration of ultramafic precursor. Disseminated brassy sulphide, probably pentlandite. Numerous stylolitic tourmaline veins.
East_Av	A177	272.5	273.1		FALT	CaTc			Ft			Brittle fault in carbonate altered ultramafics, extensive talc alteration
East_Av	A177	273.1	319	Csu	CARB	CaEp	G3	1.00	Gr			Mottled green and grey carbonate. Intense calcite-epidote-tremolite-talc alteration of ultramafics. Patchy disseminated brassy sulphide, usually less than about 1%. Some stylolitic tourmaline veins and patchy chlorite alteration. Minor zaratite and possibly nickelite. Common black euhedral to subhedral non-magnetic grains to several mm, probably chromite.
East_Av	A177	319	320.3	Csu	SKSP	TmCa	G1	0.50	Gr			Pale green skarnified serpentinite. Intense tremolite alteration with minor calcite and epidote. Minor disseminated brassy sulphide.
East_Av	A177	320.3	323.7	Csu	SERP	SpMt	A4	2.00	Ft			Massive dark grey-green serpentinite. Some tremolite-talc-chlorite alteration. Serpentinite has abundant tension cracks filled with a brassy sulphide, which is also disseminated throughout. Minor disseminated magnetite.
East_Av	A177	323.7	325.4		FALT	TcCh	G3		Ft			Brittle slightly puggy fault in altered ultramafics. Talc and chlorite alteration.
East_Av	A177	325.4	341	Csu	SKSP	TmCa	G1	1.00	Sp			Pale green skarnified serpentinite. Intense tremolite alteration with minor calcite and epidote. Minor disseminated brassy sulphide. Minor chalcopyrite. Stylolitic tourmaline veins and minor zaratite.
East_Av	A177	341	351.8	Cba	VBLB	AcCh	G3		Gr			Massive mottled green and cream intensely altered basaltic volcanoclastic breccia. Texturally destructive, intense pervasive actinolite-chlorite alteration with minor diopside. Some stylolitic chlorite veins, after tourmaline?
East_Av	A177	351.8	372	Ccc	GWAC	PhAc	B3	0.50	Bd	60	Gr	Brown and green interbedded sandstone (greywacke) and siltstone. Some graded beds with silty tops, younging downhole (i.e. overturned). Patchy intense phlogopite alteration particularly in finer grained intervals; intense actinolite alteration in sandy layers. Abundant late crosscutting carbonate veins. Minor sulphide, both chalcopyrite and pyrite are present.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A177	372	375.3	Cdu EOH	CONG	AcDi	G3					Massive green polymictic lithic conglomerate. Clasts of chert, quartz-phyric rhyolite, sandstone and abundant basaltic clasts in a matrix that varies from basaltic to rhyolitic. Actinolite-diopside alteration with some chlorite and epidote.

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
East_Avet	A177	157	158	0.03				50	-20	-0.1	11.7	3.1			
East_Avet	A177	158	159	0.03				100	-20	-0.1	11.2	1.7			
East_Avet	A177	159	160	0.08				500	-20	-0.1	11.5	2.0			
East_Avet	A177	160	161	0.15				1500	40	-0.1	12.2	2.9			
East_Avet	A177	161	162	0.07				550	-20	-0.1	11.3	2.7			
East_Avet	A177	162	163	0.04				250	-20	-0.1	11.8	2.8			
East_Avet	A177	163	164	0.04				100	-20	-0.1	7.7	6.2			
East_Avet	A177	164	165	0.04				50	-20	-0.1	8.1	6.1			
East_Avet	A177	165	166	0.06				-50	40	-0.1	7.5	8.5			
East_Avet	A177	166	167	0.04				200	-20	-0.1	2.8	9.1			
East_Avet	A177	167	168	0.03				100	-20	-0.1	3.1	4.6			
East_Avet	A177	168	169	0.07				50	40	-0.1	6.9	9.5			
East_Avet	A177	169	170	0.03				50	-20	-0.1	10.0	4.7			
East_Avet	A177	170	171	0.05				100	20	-0.1	6.9	8.5			
East_Avet	A177	171	172	0.04				-50	-20	-0.1	10.2	5.0			
East_Avet	A177	172	173	0.07				50	40	-0.1	7.1	6.3			
East_Avet	A177	173	174	0.18				450	80	-0.1	3.7	10.1			
East_Avet	A177	174	175	0.29				2200	120	-0.1	7.5	6.3			
East_Avet	A177	175	176	0.29				1450	40	-0.1	9.0	4.0			
East_Avet	A177	176	177	0.14				250	-20	-0.1	9.7	3.2			
East_Avet	A177	177	178	0.11				900	-20	-0.1	11.2	2.3			
East_Avet	A177	178	179	0.11				100	-20	-0.1	9.1	5.3			
East_Avet	A177	179	180	0.04				50	-20	-0.1	7.1	5.2			
East_Avet	A177	180	181	0.05				50	-20	-0.1	8.2	6.8			
East_Avet	A177	247	248	0.06				50	-20	-0.1	8.2	5.1			
East_Avet	A177	248	249	0.06				-50	-20	-0.1	9.0	5.4			
East_Avet	A177	249	250	0.06				150	-20	-0.1	9.5	4.2			
East_Avet	A177	250	251	0.07				300	-20	-0.1	11.4	2.5			
East_Avet	A177	251	252	0.08				-50	-20	-0.1	6.8	6.7			
East_Avet	A177	252	253	0.05				-50	-20	-0.1	8.0	5.7			
East_Avet	A177	253	254	0.08				100	40	-0.1	7.4	8.0			
East_Avet	A177	254	255	0.04				50	-20	-0.1	9.1	5.6			
East_Avet	A177	255	256	0.29				1400	80	0.1	7.7	7.3			

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
East_Avet	A177	256	257	0.55				600	120	0.2	22.3	4.6			
East_Avet	A177	263	264	0.22				1450	20	-0.1	12.5	1.8			
East_Avet	A177	264	265	0.49				3750	120	0.2	11.9	2.8			
East_Avet	A177	265	266	0.12				750	-20	-0.1	12.0	2.4			
East_Avet	A177	266	267	0.19				1850	20	-0.1	12.3	1.8			
East_Avet	A177	267	268	0.16				1500	20	-0.1	10.4	3.0			
East_Avet	A177	268	269	0.08				450	-20	-0.1	11.1	3.0			
East_Avet	A177	269	270	0.11				400	-20	-0.1	10.2	3.4			
East_Avet	A177	270	271	0.09				100	20	0.1	8.0	7.8			
East_Avet	A177	271	272	0.28				1200	-20	0.1	12.6	2.2			
East_Avet	A177	272	273	0.23				1850	40	-0.1	13.1	2.8			
East_Avet	A177	273	274	0.10				200	20	0.5	21.8	6.1			
East_Avet	A177	274	275	0.04				150	-20	-0.1	14.7	2.0			
East_Avet	A177	275	276	0.03				200	-20	-0.1	14.2	1.7			
East_Avet	A177	276	277	0.14				300	-20	-0.1	19.2	3.1			
East_Avet	A177	277	278	0.05				100	-20	-0.1	15.1	5.4			
East_Avet	A177	278	279	0.04				50	-20	-0.1	12.4	4.7			
East_Avet	A177	279	280	0.06				250	-20	-0.1	14.3	2.5			
East_Avet	A177	280	281	0.18				700	-20	-0.1	13.7	2.0			
East_Avet	A177	281	282	0.85				2450	100	0.5	11.4	4.1			
East_Avet	A177	282	283	0.38				850	-20	0.2	12.3	2.8			
East_Avet	A177	283	284	0.25				850	-20	-0.1	11.8	2.5			
East_Avet	A177	284	285	0.10				550	40	-0.1	8.6	6.5			
East_Avet	A177	285	286	0.34				1850	120	0.1	7.4	8.3			
East_Avet	A177	286	287	0.14				850	40	-0.1	9.0	7.4			
East_Avet	A177	287	288	0.06				350	-20	-0.1	11.2	3.3			
East_Avet	A177	288	289	0.08				600	-20	-0.1	11.6	3.3			
East_Avet	A177	289	290	0.06				300	-20	-0.1	11.6	3.7			
East_Avet	A177	290	291	0.14				1250	-20	-0.1	12.4	2.4			
East_Avet	A177	291	292	0.02				-50	-20	-0.1	12.5	2.4			
East_Avet	A177	292	293	0.02				150	-20	-0.1	13.0	2.2			
East_Avet	A177	293	294	0.07				600	-20	-0.1	13.5	2.5			
East_Avet	A177	294	295	0.04				100	-20	-0.1	17.3	3.5			

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
East_Avet	A177	295	296	0.04				50	-20	-0.1	19.2	3.9			
East_Avet	A177	296	297	0.05				150	-20	-0.1	19.9	4.6			
East_Avet	A177	297	298	0.10				850	-20	0.1	17.0	3.7			
East_Avet	A177	298	299	0.11				1200	-20	-0.1	12.3	2.5			
East_Avet	A177	299	300	0.11				1050	-20	-0.1	11.6	3.7			
East_Avet	A177	300	301	0.10				1100	20	-0.1	12.1	3.2			
East_Avet	A177	301	302	0.09				900	-20	-0.1	10.4	3.1			
East_Avet	A177	302	303	0.22				2650	80	-0.1	11.7	3.1			
East_Avet	A177	303	304	0.10				1100	-20	-0.1	11.8	2.8			
East_Avet	A177	304	305	0.15				1700	20	-0.1	10.9	3.3			
East_Avet	A177	305	306	0.05				400	-20	-0.1	11.8	2.6			
East_Avet	A177	306	307	0.09				950	-20	-0.1	11.5	2.9			
East_Avet	A177	307	308	0.04				300	-20	-0.1	11.8	3.1			
East_Avet	A177	308	309	0.05				350	-20	-0.1	10.9	3.1			
East_Avet	A177	309	310	0.05				400	-20	-0.1	11.5	2.7			
East_Avet	A177	310	311	0.09				900	-20	-0.1	11.8	3.0			
East_Avet	A177	311	312	0.11				1050	20	-0.1	10.1	4.1			
East_Avet	A177	312	313	0.08				600	-20	-0.1	11.1	3.5			
East_Avet	A177	313	314	0.05				350	-20	-0.1	12.1	2.3			
East_Avet	A177	314	315	0.05				450	-20	-0.1	12.9	2.5			
East_Avet	A177	315	316	0.05				400	-20	-0.1	13.6	3.0			
East_Avet	A177	316	317	0.05				400	-20	-0.1	13.1	3.2			
East_Avet	A177	317	318	0.06				500	-20	-0.1	13.2	2.3			
East_Avet	A177	318	319	0.06				600	-20	-0.1	13.1	2.6			
East_Avet	A177	319	320	0.06				400	-20	-0.1	13.6	2.0			
East_Avet	A177	320	321	0.25				300	80	1.5	23.9	8.3			
East_Avet	A177	321	322	0.45				100	200	2.4	24.9	11.4			
East_Avet	A177	322	323	0.40				100	140	2.0	27.8	9.5			
East_Avet	A177	323	324	0.42				400	180	3.2	26.3	12.8			
East_Avet	A177	324	325	0.34				3150	80	-0.1	15.1	2.5			
East_Avet	A177	325	326	0.65				5250	260	-0.1	12.7	2.1			
East_Avet	A177	326	327	0.25				2450	60	-0.1	14.1	2.4			
East_Avet	A177	327	328	0.69				7400	180	0.1	12.4	2.2			

Alliance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A182	0	5.2	Ccc	GWAC	CyLi	B3		Bk			Strongly to intensely weathered basaltic volcaniclastic sandstone? Intense weathering, core largely converted to limonite-geothite and clay, although some textures are generally still recognisable and core generally holds together. Some pyrolusite. Recovery only about 50% (est.). Loss not recorded.
East_Av	A182	5.2	25.8	Ccc	CLAY	CyLi	B4		Bk			Rubbly broken clay and limonite-geothite-pyrolusite altered intensely weathered rock fragments after basaltic volcaniclastics(?). Poor recovery. No pieces of core longer than 0.2m. Mostly rubble (less than about 5x5cm).
East_Av	A182	25.8	34.6	Ccc	GWAC	CyLi	B3		Ft			Moderately to strongly weathered basaltic volcaniclastic sandstone with some pebbly-conglomeratic zones. Moderate to strong clay-limonite-geothite alteration overprinting phlogopite alteration. Some pyrolusite. Core generally quite broken.
East_Av	A182	34.6	36		FALT	Ch			Ft			Brittle fault? Core relatively unweathered but extremely broken and rubbly. Some chlorite alteration.
East_Av	A182	36	45	Ccc	GWAC	PhAc	B4	0.10	Ft	Bd	60	Massive dark brown to purplish-grey feldspar phyric greywacke. Moderate phlogopite alteration; also chlorite alteration (after actinolite?). Core essentially unweathered, still quite broken. Rare pebbly conglomeratic beds. Very minor pyrite.
East_Av	A182	45	46		FALT	CyCh			Ft			Slightly puggy brittle fault. Core extremely broken. Some clay alteration (matrix in fault breccia).
East_Av	A182	46	80.7	Ccc	GWAC	PhAc	P3	0.10	Gr	Bd	30	Massive purplish-grey feldspar phyric greywacke and siltstone. Moderate phlogopite alteration and lesser actinolite alteration. Minor pyrrhotite and pyrite. Moderately broken. Bedding somewhat variable, from around 30-60 degrees, often disrupted. Very small patch of flow breccia (?) around 53.0m. Minor diopside alteration. Common small actinolite veins (often with pyrrhotite) and minor milky quartz veins. Some brecciated zones, often actinolite altered. Increasing proportion of siltstone downhole.
East_Av	A182	80.7	82.2	Ccc	SILT	AcPh	G3		Ft	Bd	30	Laminated green and purple siltstone. Bedding disrupted, brecciated and contorted. Intense actinolite alteration and minor phlogopite alteration.
East_Av	A182	82.2	82.9		FALT	Cy			Ft			Brittle fault in laminated siltstone. Core very broken. Some clay alteration.

Alliance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A182	82.9	84.9	Ccc	SILT	DiPh	B2		Ft			Laminated pale purple-brown siltstone and greywacke. Intensely brecciated and disrupted bedding. Brecciation associated with actinolite alteration. Siltstone also has diopside-phlogopite-silica alteration. Core quite broken.
East_Av	A182	84.9	89.1		FALT	ChCy			Ft			Brittle fault zone in siltstone and greywacke. Core very broken. Some chlorite-clay alteration, although most core is relatively unaltered.
East_Av	A182	89.1	93.3	Ccc	GWAC	Ph	B3	0.20	Sp	Bd	20	Massive purple-brown feldspar phyric greywacke and laminated pale brown siltstone. Also some pyroxene (?) crystals in some greywacke beds. Bedding usually disrupted and brecciated. Actinolite alteration associated with brecciated and veined zones. Moderate phlogopite alteration in remainder of rockmass. Minor pyrite as veins.
East_Av	A182	93.3	95.8	Cba	VBVF	AcDi	G3	0.50	Gr	Bd	45	Strongly foliated, basaltic volcanoclastic, fine grained flow deposit. Occasional larger rounded/flattened clast which the foliation wraps around. Could be referred to as a sparse (matrix dominated) flow breccia. Intense actinolite alteration with lesser diopside. Some pyrite present, usually concentrated in particular bands.
East_Av	A182	95.8	104.7	Ccc	VBLB	AcPh	A3		Gr	Bd	30	Intensely brecciated feldspar phyric greywacke and siltstone. Essentially typical Continguous Creek Fm, intensely brecciated. Bedding strongly disrupted, contorted and in places folded. Strong actinolite-diopside alteration and lesser phlogopite alteration. Very small clay altered fault at around 97.5m. Very minor pyrite. Occasional rounded clasts with a cherty appearance, may be pieces of siltstone.
East_Av	A182	104.7	112	Cba	VBLB	AcCa	G3	1.00	Bk	Bd	20	Intensely altered and metasomatised basaltic volcanoclastic breccia and finer grained volcanoclastics. Varies from layered mid-green assemblage to mottled black and white massive diopside?-calcite-magnetite with abundant pyrite, some chalcopyrite and minor pyrrhotite. Rock has intense actinolite alteration, strongly overprinted with calcite-epidote-magnetite skarn style alteration. Moderately soft massive white mineral in skarn altered zones that is not carbonate may be albite? or partly altered diopside.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A182	112	118.6	Cba	VLB	AcDi	G3		Sp			Intensely altered basaltic volcanoclastic breccia with lesser siltstone and sandstone (greywacke). Intense pervasive actinolite-diopside alteration. Mid-green to pale brown colour. Abundant late crosscutting calcite veins. Also some quartz-sericite veins. Bedding, where present in the finer grained rocks, is disrupted and brecciated.
East_Av	A182	118.6	119.4	Ccc	SILT	DiPh	B3	0.10	Ft	Bd		Purple-brown and green siltstone. Bedding disrupted and brecciated. Moderate diopside-phlogopite alteration (?). Some chlorite alteration (after actinolite?).
East_Av	A182	119.4	120.1		FALT	CyCh			Ft			Brittle fault in fine grained volcanoclastics. Some clay-chlorite alteration. Core very broken and has a pale, leached appearance.
East_Av	A182	120.1	131.9	Ccc	SILT	PhAc	B4	0.20	Ft	Bd	30	Massive to laminated dark brown siltstone and greywacke. Strong pervasive phlogopite alteration. Minor brecciated zones with actinolite alteration. Some calcite veining, both bedding parallel and crosscutting. Common fine actinolite veins. Some pyrite, in disseminations and veins. Some siltstone is very fine grained (almost shale) and is quite hard and flinty, possibly hornfelsed. Chlorite replacement of actinolite common.
East_Av	A182	131.9	132.1		FALT	Ch			Ft			Small brittle fault, some relatively minor chlorite alteration.
East_Av	A182	132.1	138.2	Cba	VBVB	AcDi	G3	0.50	Gr	Fo	20	Massive dark green volcanoclastic flow breccia and intercalated fine grained volcanoclastics. Intense pervasive actinolite alteration, minor diopside and epidote. Flow banding at low angle (20 degrees) to core axis. Common disseminated pyrite quite abundant in patches.
East_Av	A182	138.2	165.4	Ccc	SILT	AcPh	G3	0.10	Gr	Bd	20	Massive to laminated mid-green and dark brown fine-grained epiclastic (reworked) fine grained volcanoclastics (siltstone and greywacke) with minor zones of devitrified flow breccia. Bedding, where present, is commonly disrupted and/or brecciated. Intense pervasive actinolite alteration with common diopside overprinting and also some phlogopite alteration.
East_Av	A182	165.4	171.2	Cba	VLB	AcDi	G3	0.10	Gr			Massive dark green volcanoclastic basaltic breccia and intercalated fine grained volcanoclastics. Intense pervasive actinolite alteration, minor diopside and phlogopite. Moderately hornfelsed. Clasts of actinolite altered basaltic and siltstone.

Alliance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A182	171.2	197.1	Ccc	SILT	PhAc	B4	0.20	Gr	Bd	20	Massive to laminated dark brown and green siltstone and greywacke. Strong phlogopite alteration. Some zones of brecciated volcanics, strongly actinolite altered. Some chlorite overprinting of actinolite. Also minor diopside alteration. Some calcite veining. Greywacke generally quite coarse grained, but some siltstone is very fine grained. Grading suggestive of facing downhole, but this is not clear.
East_Av	A182	197.1	202.3	Ccc	GWAC		A3	0.10	Gr	Bd	30	Massive mid grey volcanoclastic greywacke and pelitic mudstone. Mudstone has at least one cleavage at around 60 degrees to the core axis. Some calcite veins. Minor chalcopyrite.
East_Av	A182	202.3	266.7	Ccc	SILT	PhAc	B4	0.20	Gr	Bd	70	Massive to laminated dark brown siltstone and feldspar phyric greywacke. Strong phlogopite alteration. Some zones of brecciated volcanics, usually strongly actinolite altered. Moderate chlorite overprinting of actinolite. Common diopside alteration in siltstones. Bedding varies from 70-80 degrees to core axis down to around 30 degrees. Occasional epidote vein. Relatively common pyrite veins, also minor chalcopyrite. Common calcite veins. Bedding often disrupted and/or brecciated.
East_Av	A182	266.7	280	Cba	VBLB	AcDi	G3	0.10	Gr			Mottled green and cream to pale grey intensely altered basaltic volcanoclastic breccia and greywacke. Intense actinolite-diopside alteration, some phrenite overprinting. Short zone of phlogopite alteration with pyrite veins. Minor epidote.
East_Av	A182	280	281.3	Ccc	GWAC	AcCh	G4	1.00	Sp			Massive dark green, intensely altered volcanoclastic sandstone (greywacke)? Intense pervasive actinolite alteration strongly overprinted with chlorite alteration. Very common disseminated pyrite. Very minor magnetite and calcite alteration.
East_Av	A182	281.3	287.2	Csu	CARB	CaCh	G2	0.10	Bk			Massive, mottled green and grey intensely altered ultramafics. Intense calcite-epidote-chlorite alteration. Common disseminated magnetite. Very little sulphide, one patch noted that appears to be pyrite. Numerous stylonitic tourmaline(?) veins. Lower contact is spread out, some intermingling of altered ultramafic and country rock (volcanics).

Allegiance Metals Drill Log													
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description	
East_Av	A182	287.2	296.5	Cba	VBLB	AcCh	G3		Gr			Massive, intensely altered and metasomatised basaltic volcanics; mainly breccia and minor sandstone (greywacke). Intense actinolite alteration, partly chlorite altered. Also common epidote and phlogopite, with late phrenite overprinting. Minor diopside and fine grained axinite.	
East_Av	A182	296.5	300.6	Ccc	GWAC	PhAc	B4		Sp	Bd	60	Massive dark brown phlogopite altered feldspar phyric greywacke. Some graded beds, facing downhole. Some actinolite alteration, associated with fractures and veins.	
East_Av	A182	300.6	331	Cba	VBLB	AcDi	G3		Gr			Massive mottled green and cream to grey intensely altered and metasomatised basaltic volcanoclastic breccia and minor intercalated siltstone. Intense pervasive actinolite alteration with lesser diopside. Moderate skarn style epidote-calcite alteration. Some late phrenite overprinting. Minor chlorite.	
East_Av	A182	331	335.1	Cba	VBLB	PrEp	A2					Massive mottled pale grey and pale green intensely metasomatised basaltic volcanoclastic breccia. Intense late phrenite replacement of actinolite-diopside. Some epidote-calcite alteration.	
East_Av	A182	335.1	341	Ccc	SILT	PrDi	A3		Gr	Bd	60	Laminated, intensely altered and metasomatised volcanoclastic siltstone and sandstone. Pale grey, green and pink diopside-actinolite alteration with strong phrenite overprinting. Very hard (silicified). Very minor pyrite.	
East_Av	A182	341	351.5	Cba	VBLB	PrSi	A2		Sp			Massive mottled pale grey and pale green intensely metasomatised basaltic volcanoclastic breccia and brecciated siltstone. Intense late phrenite-silica alteration. Earlier actinolite-diopside alteration partly preserved. Also minor axinite-calcite skarn style alteration present in patches.	
East_Av	A182	351.5	352.1		PHLG	ChPh	G4		Sp			Massive dark green and brown, weakly foliated chlorite-phlogopite schist. Some talcose veins.	
East_Av	A182	352.1	353	Csu	SKSP	TmCh	G2	1.00	Sp			Massive green to very pale green intensely metasomatised serpentinite. Alteration is tremolite-chlorite-talc dominated. Two sulphides are present; nickelite and pentlandite(?).	
East_Av	A182	353	353.5		PHLG	PhCh	B4		Sp	Fo	35	Massive dark brown weakly foliated phlogopite schist. Intense phlogopite-chlorite-talc alteration.	

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A182	353.5	355.1	Csu	SKSP	TmDi	A2	0.20	Sp			Massive mottled green and pale grey-green intensely metasomatised serpentinite. Mainly tremolite-diopside skarn alteration; also chlorite-talc-calcite-siderite. Very minor disseminated brassy sulphide.
East_Av	A182	355.1	359.5	Csu	SERP	SpMt	A5	1.00	Gr			Massive black serpentinite. Disseminated magnetite and around 1% coarse disseminated brassy sulphide.
East_Av	A182	359.5	368.2	Csu	SERP	SpMt	A5	0.50	Ft			Massive black serpentinite. Disseminated magnetite and generally less than 1% disseminated brassy sulphide. One high grade patch; 365.8-366.0m.
East_Av	A182	368.2	368.9		FALT	SpCh			Ft			Brittle fault in serpentinite. Core very broken, minor chlorite or ground serpentinite gouge, no other alteration.
East_Av	A182	368.9	376.3	Csu	SERP	SpMt	A5	0.50	Gr			Massive black serpentinite. Disseminated magnetite, small amounts (0.5%) of disseminated brassy sulphide.
East_Av	A182	376.3	392.7	Csu	SERP	SpMt	A5	0.50	Ft			Massive black serpentinite. Disseminated magnetite, small amounts (0.5-1%) of disseminated, coarse grained brassy sulphide (pentlandite). Sparse talc veins. Small patches of mottled white tremolite alteration.
East_Av	A182	392.7	392.9		FALT	Sp			Ft			Small brittle fault, somewhat puggy. Large chrysotile fibres present.
East_Av	A182	392.9	427.7	Csu	SERP	SpMt	A5	0.50	Ft			Massive black and mottled black and green serpentinite. Disseminated magnetite, very small amounts (0.5%) of disseminated, coarse grained brassy sulphide (pentlandite). Sparse talc veins. Patches of mottled white tremolite alteration.
East_Av	A182	427.7	442.5	Csu	SERP	SpMt	A5	0.50	Ft			Massive black serpentinite. Disseminated magnetite, small amounts (0.5-1%) of disseminated, coarse grained brassy sulphide (pentlandite). Common talc veins (filling tension cracks). Patches with disseminated apple green belbs of soft (talcose) serpentine.
East_Av	A182	442.5	443.1		FALT	SpTc			Ft			Two small brittle faults separated by a short length of intact core; some talc alteration and chrysotile fibres.
East_Av	A182	443.1	478.8	Csu	SERP	SpMt	A5	0.50	Ft			Massive black serpentinite. Disseminated magnetite, small amounts (0.5-1%) of disseminated, coarse grained brassy sulphide (pentlandite). Sparse talc veins (filling tension cracks). Some soft brown (micaceous?) veins. Common magnetite veins. Sulphide slightly more common from about 464m onwards.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A182	478.8	501.3	Csu	SERP	SpMt	A5	0.50	Gr			Massive black and mottled green serpentinite. Abundant magnetite, small amounts of disseminated brassy sulphide (<0.5%). Common small talc veins.
East_Av	A182	501.3	503.4	Csu	SERP	SpMt	A5	1.50	Ft			
East_Av	A182	503.4	504.1		FALT	SpTc			Ft			Massive dark grey to black serpentinite. Abundant magnetite. Several sulphides are present. One is fine grained, brassy and sparse, probably pyrrhotite. The main sulphide is silvery to brassy, coarse grained and associated with massive magnetite veins. There is also a sparsely disseminated sulphide with a copper red tinge, probably nickelite. Some coarse crystalline tremolite alteration is present. Brittle fault in serpentinite; broken ends and a puggy zone in the centre; with a fine gouge and breccia, some talc-clay alteration (or just finely ground serpentine).
East_Av	A182	504.1	506.3	Csu	SERP	SpMt	A5	1.00	Ft			
East_Av	A182	506.3	515	Csu	FALT	SpMt	A5	2.00	Ft			Massive dark grey to black and green serpentinite; regularly faulted with short zones of solid core in between (the longest is 0.4m). There are around 10-12 individual faults in the whole interval (around 1 per metre). Abundant magnetite, again several sulphides are present, including nickelite and either pentlandite or pyrrhotite, probably both. In places the rock looks somewhat foliated, at around 60 degrees to the core axis.
East_Av	A182	515	519.8	Csu	SERP	SpTm	A4	3.00	Sp	Fo	60	
East_Av	A182	519.8	523.3	Cba	VBLB	DiPr	A2	0.00	Sp			Massive pale grey to brown and green intensely altered and metasomatised volcanoclastic breccia(?). Intense pervasive diopside-silica alteration with strong phrenite overprinting. Some actinolite and axinite.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A182	523.3	529.3	Cba	PHLG	PhAc	B4	0.20	Sp	Fo	60	Massive to weakly foliated dark brown, green and pale grey-white phlogopite schist'. Strong phlogopite-actinolite-carbonate alteration. Minor pyrrhotite and magnetite. Carbonate (?) is non-acid reactive even when powdered (magnesite?). Minor diopside-axinite.
East_Av	A182	529.3	543.4	Cba	VBLB	AcCb	G4		Sp			Massive dark green to mottled green and white intensely altered basaltic volcanoclastic breccia (?). Intense pervasive actinolite alteration, largely texturally destructive. Minor carbonate (non-reactive) and epidote, tourmaline and chlorite. "Carbonate" could be altered diopside? Minor calcite veining.
East_Av	A182	543.4	543.8	Csu	SKSP	TmDi	A2	0.20	Sp			Massive pale grey intensely altered and metasomatised ultramafic? Intense pervasive tremolite-diopside alteration. Sparse disseminated sphalerite.
East_Av	A182	543.8	551.3	Cdg	CONG	SiEp	P3		Gr			Massive purple and pale apple green strongly altered and metasomatised polymictic conglomerate. Intense silica-epidote alteration with lesser axinite and calcite. Start of interval texture appears more brecciated but is modified by metasomatism; lower is definitely conglomerate. Minor phrenite overprinting.
East_Av	A182	551.3	560	Cdg	CONG	PrEp	A1		Gr	Bd	65	Clasts of chert, reworked sediments and volcanics, including basaltic clasts. Pale grey and pale green polymictic lithic conglomerate and pebbly sandstone. Variable alteration, abundant epidote, strongly silicified, some phrenite (?). Conglomeratic texture always recognisable. Several veins of apophyllite. Clast imbrication in pebbly sandstone gives bedding orientation.
East_Av	A182	560	591.5	Cdg	SAND	SiPr	A1	0.10				Massive pale grey intensely altered and metasomatised sandstone? Textures are largely destroyed; zones of mottling with various shades of grey appear somewhat conglomeratic or brecciated, other uniform zones may indicate a more homogenous parent (i.e. sandstone). Intense bleaching, silica-phrenite-epidote alteration. Minor sulphide, possibly pyrrhotite, associated with epidote. Minor axinite.

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
East_Avet	A182	281	282	0.09				-50	80	-0.1	11.6	9.7			
East_Avet	A182	282	283	0.06				-50	-20	-0.1	10.5	5.3			
East_Avet	A182	283	284	0.06				-50	-20	-0.1	10.9	5.2			
East_Avet	A182	284	285	0.04				50	-20	-0.1	10.7	6.9			
East_Avet	A182	285	286	0.03				-50	-20	-0.1	10.3	4.7			
East_Avet	A182	286	287	0.03				50	-20	-0.1	10.9	4.3			
East_Avet	A182	287	288	0.15				-50	80	-0.1	12.0	11.4			
East_Avet	A182	288	289	0.06				-50	60	-0.1	8.0	10.2			
East_Avet	A182	352	353	0.25				700	-20	-0.1	16.3	2.7			
East_Avet	A182	353	354	0.20				450	20	-0.1	22.4	4.3			
East_Avet	A182	354	355	0.10				800	-20	-0.1	13.8	1.2			
East_Avet	A182	355	356	0.22				100	120	0.3	39.0	8.3			
East_Avet	A182	356	357	0.24				-50	180	0.4	42.3	10.6			
East_Avet	A182	357	358	0.35				-50	240	0.7	44.7	11.2			
East_Avet	A182	358	359	0.31				-50	240	0.5	41.7	11.4			
East_Avet	A182	359	360	0.34				-50	260	0.4	40.0	12.5			
East_Avet	A182	360	361	0.27				50	180	0.4	39.4	11.5			
East_Avet	A182	361	362	0.27				100	180	0.3	40.4	11.3			
East_Avet	A182	362	363	0.24				100	160	0.2	38.8	11.7			
East_Avet	A182	363	364	0.29				150	200	0.3	39.7	11.9			
East_Avet	A182	364	365	0.24				200	160	0.2	39.0	12.1			
East_Avet	A182	365	366	0.59				400	360	0.7	39.0	14.2			
East_Avet	A182	366	367	0.27				100	180	0.3	39.6	12.8			
East_Avet	A182	367	368	0.27				150	180	0.3	39.7	12.6			
East_Avet	A182	368	369	0.23				100	160	0.7	39.4	13.7			
East_Avet	A182	369	370	0.28				250	200	0.4	39.5	14.1			
East_Avet	A182	370	371	0.36				400	240	0.3	38.4	16.0			
East_Avet	A182	371	372	0.37				200	260	0.4	39.3	15.8			
East_Avet	A182	372	373	0.27				50	200	0.3	39.5	13.7			
East_Avet	A182	373	374	0.34				250	200	0.3	40.8	12.8			
East_Avet	A182	374	375	0.31				150	200	0.4	39.2	14.1			
East_Avet	A182	375	376	0.39				150	240	0.4	39.8	13.8			
East_Avet	A182	428	429	0.21				150	180	-0.1	38.8	16.1			

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
East_Avet	A182	429	430	0.28				250	200	0.1	39.3	16.8			
East_Avet	A182	430	431	0.33				600	200	-0.1	39.8	14.1			
East_Avet	A182	431	432	0.30				400	220	0.1	40.0	16.1			
East_Avet	A182	432	433	0.21				100	180	-0.1	39.1	14.7			
East_Avet	A182	464	465	0.24				350	220	-0.1	34.3	23.3			
East_Avet	A182	465	466	0.32				500	240	0.1	36.6	20.1			
East_Avet	A182	466	467	0.28				400	200	-0.1	37.8	18.7			
East_Avet	A182	467	468	0.26				450	200	0.1	38.4	20.6			
East_Avet	A182	468	469	0.24				200	200	-0.1	36.5	20.5			
East_Avet	A182	469	470	0.29				250	240	0.1	35.6	19.8			
East_Avet	A182	470	471	0.30				350	220	-0.1	36.6	19.1			
East_Avet	A182	471	472	0.26				250	200	-0.1	36.2	18.1			
East_Avet	A182	472	473	0.31				400	220	0.1	37.1	15.9			
East_Avet	A182	473	474	0.24				250	180	-0.1	36.2	16.5			
East_Avet	A182	474	475	0.37				500	240	0.2	36.4	19.6			
East_Avet	A182	475	476	0.28				350	220	-0.1	36.8	17.2			
East_Avet	A182	476	477	0.30				450	180	-0.1	36.7	19.8			
East_Avet	A182	477	478	0.26				400	180	-0.1	36.9	18.2			
East_Avet	A182	501	502	0.57				2150	200	-0.1	35.0	20.5			
East_Avet	A182	502	503	0.44				450	240	0.2	33.2	23.8			
East_Avet	A182	503	504	0.34				450	200	0.3	36.1	21.1			
East_Avet	A182	504	505	0.27				50	260	0.3	36.6	20.6			
East_Avet	A182	505	506	0.26				100	220	0.4	37.5	18.8			
East_Avet	A182	506	507	0.48				650	280	0.4	35.6	23.4			
East_Avet	A182	507	508	5.04				12800	680	1.5	21.6	34.0			
East_Avet	A182	508	509	0.32				150	280	0.4	35.2	26.2			
East_Avet	A182	509	510	0.38				200	280	0.6	37.8	22.3			
East_Avet	A182	510	511	0.28				100	220	0.7	39.2	20.7			
East_Avet	A182	511	512	0.34				150	220	0.5	39.4	20.5			
East_Avet	A182	512	513	0.55				100	320	0.7	40.1	20.3			
East_Avet	A182	513	514	0.65				250	380	0.9	36.9	24.7			
East_Avet	A182	514	515	0.67				400	340	1.2	39.8	17.8			
East_Avet	A182	515	516	0.58				300	280	0.8	40.7	15.8			

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A185	0	5.4	Ccc	VBLF	CyLi	O3		Bk	Bd	30	Intensely weathered orange-brown fine grained volcanics(?), some remanent bedding textures present, strong clay-limonite-geothite alteration. Majority of recovered material is broken intact core, also some rubbly clay altered material. Some core loss included.
East_Av	A185	5.4	18	Ccc	VBLF	CyLi	B3		Bk			Intensely weathered tan-brown fine grained volcanics, strong clay-limonite-geothite alteration usually with pyrolusite on fracture surfaces. Approximately equal proportions of intact core fragments and rubble, some loss but not recorded by drillers.
East_Av	A185	18	24.3	Ccc	VBLF	CyLi	B2		Bk			Intensely weathered pale brown fine grained volcanics?, strong clay-limonite-geothite alteration. Predominantly intact core rather than rubble, still deeply weathered. Commonly has pyrolusite and/or black iron oxides on fractures.
East_Av	A185	24.3	26.4	Ccc	VBLF	CyCh	B3		Bk			Mid to dark brown and green strongly weathered fine grained volcanics? Variable weathering; strong chlorite-clay in green rock, remainder (bulk) is intensely weathered clay-limonite etc. Preserved textures suggest sedimentary rock; either breccia or more likely sandstone-siltstone.
East_Av	A185	26.4	30.1	Ccc	SILT	SeCh	A3		Gr	Bd	30	Mildly weathered, grey laminated volcanoclastic siltstone. Well bedded, bedding varies from 30 degrees to 45 degrees to core axis. Distinguished from downhole interval only by partial alteration to sericite-chlorite (probably); appearance is similar but this interval is slightly paler and softer (more weathered). Strong weathering, with limonite-geothite, is confined to fracture surfaces.
East_Av	A185	30.1	36.8	Ccc	GWAC	PhAc	P4		Gr	Bd	45	Dark purple feldspar lithic greywacke, laminated siltstone and thin pebbly conglomeratic sandstone. The end of this interval marks the base of weathering, although weathering here consists of iron oxy-hydroxides on fracture surfaces only. Bedding varies from 45-60 degrees to core axis. Clasts in pebbly layers consist of reworked siltstone. Some brecciation/veining with actinolite alteration, some chlorite alteration. Moderate phlogopite alteration throughout. Core quite fractured.
East_Av	A185	36.8	45.3	Ccc	GWAC				Ft			Dark purple feldspar lithic greywacke, laminated siltstone and thin pebbly conglomeratic sandstone. Clasts in pebbly layers consist of reworked siltstone.

Alliance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A185	45.3	46.3		FALT	Ch				Ft		Common brecciation-veining with actinolite alteration. Moderate phlogopite alteration throughout. Bedding varies from 30-60 degrees to core axis. Core moderately broken.
East_Av	A185	46.3	60.1	Ccc	SILT	PhDi	B3			Ft	Bd	30 Brittle fault in fine grained volcanics; interval length is approximate, there is significant stretch in the tray. Moderate chlorite alteration. Core is very broken. Mid-brown to green siltstone. Bedding strongly brecciated, intense veining. Alteration varies from strong phlogopite-diopside to actinolite. Some patches of massive actinolite alteration with no discernable bedding; these cut across bedding in siltstone. Core moderately broken.
East_Av	A185	60.1	61.1		FALT	Ch				Ft		Brittle fault in fine grained volcanics; interval length is approximate, there is little alteration except for minor chlorite; core is heavily broken.
East_Av	A185	61.1	90.8	Ccc	SILT	PhDi	P4			Ft	Bd	Dark purple-brown to green and mottled green siltstone, with minor greywacke. Bedding varies significantly, from 30 degrees to core axis to parallel and shows small scale folding (eg approx 89.0m). Alteration varies from actinolite dominated to phlogopite dominated. There are some late epidote veins. Bedding commonly strongly brecciated and/or disrupted. Several small (<0.1m) healed faults. Core moderately broken.
East_Av	A185	90.8	100.5		FALT	CyCh				Ft		Brittle fault zone in siltstone; probably several (many) small faults. Core very heavily broken but relatively little alteration, minor clay and chlorite.
East_Av	A185	100.5	109.5	Ccc	VBLB	AcPh	B3	0.10	Gr			Massive mottled green and brown volcanoclastic lithic breccia? Minor siltstone. Very minor chalcopyrite and pyrrhotite. Alteration dominated by actinolite, also some diopside overprinting and minor phlogopite. Some later epidote veins.
East_Av	A185	109.5	151.1	Ccc	SILT	PhAc	B5	0.20	Sp	Bd		Dark brown siltstone and feldspar phyric greywacke, including some pebbly beds. Bedding varies from 70 degrees to 30 degrees to core axis. Numerous graded beds suggest facing uphole. Some actinolite veining, with or without associated sulphide including pyrrhotite and chalcopyrite, and possibly pyrite. Some late epidote veins. Bedding is disrupted and or brecciated in patches.

Alliance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A185	151.1	155.4	Ccc	SILT	AcDi	G3	0.20	Sp	Bd	55	Green, brown and white strongly brecciated laminated siltstone. Patchy intense actinolite alteration; strong diopside-phlogopite alteration in remainder. Small amounts of disseminated pyrite. Bedding is intensely disrupted and brecciated. Minor amounts of greywacke.
East_Av	A185	155.4	159.7	Cba	VBLB	AcDi	A3		Gr			Mottled grey green and cream basaltic volcanoclastic polymictic breccia. Clasts of reworked volcanoclastics (siltstone and greywacke) and basaltic clasts; matrix is extremely fine grained, strongly diopside altered with abundant crystals and lithic fragments within. Some large tabular crystals in matrix, completely actinolite replaced, may have been feldspar?
East_Av	A185	159.7	183.3	Cba	VBLF	AcDi	G3	0.10	Sp	Bd	60	Mottled green white and brown, intensely altered fine grained basaltic volcanoclastics. Similar proportions of greywacke and siltstone, some brecciated zones. Alteration is actinolite dominated with some diopside overprinting and there is a section with intense phlogopite alteration. In the phlogopite altered zone there is disseminated pyrite that appears to have selectively replaced large grains in the greywackes, and pyrite is present in veins in the silt intervals. Small calcite veins, increasing downhole. Minor late phrenite at downhole end of interval.
East_Av	A185	183.3	192.6	Cba	SILT	EpCh	G2		Sp	Bd	60	Mottled pale to dark green and white, intensely altered and metasomatised carbonaceous siltstone? Bedding textures are partly preserved indicating laminated precursor. Bedding angles vary from around 70 to 45 degrees to the core axis. Alteration consists of epidote-chlorite-calcite-magnetite. Minor late phrenite. Probably some actinolite present, and some possible minor orange-red garnet?
East_Av	A185	192.6	199	Ccc	CARB	CaCh	A4	0.70	Gr	Bd	40	Mottled massive dark grey limestone and minor interbedded siltstone. Numerous black stylolitic veins, possibly chlorite? Minor magnetite, minor pyrrhotite and chalcopryrite disseminations and veins.
East_Av	A185	199	202.4	Ccc	SILT	EpPr	G1		Sp	Bd	40	Pale to dark green intensely metasomatised fine grained sedimentary rock, possibly calcareous siltstone. Well bedded, bedding is folded at around 202.2m, and varies from 40 to 90 degrees to core axis, folding looks like parastic fold. Strong epidote-phrenite alteration(?). Minor calcite and possibly diopside.

Alliance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A185	202.4	206.6	Ccc	SKRN	ChMt	A4	0.20	Sp	Bd	35	Mottled dark grey, strongly metasomatised laminated siltstone. Strong chlorite-magnetite alteration, minor calcite and epidote. Several small chalcopyrite veins. In patches with greater concentrations of magnetite, bedding is brecciated, in remainder bedding is well preserved.
East_Av	A185	206.6	212.2	Ccc	SKRN	PrEp	A1		Gr	Bd	40	Very pale grey-tan and pale green intensely altered and metasomatised siltstone and possibly volcanoclastic breccia. In some places a laminated texture is preserved indicating a fine grained layered sedimentary precursor, but this texture is not recognisable throughout. Alteration is dominated by prehnite and epidote with minor calcite veins.
East_Av	A185	212.2	238.5	Ccc	SILT	AcPr	A3	0.10	Gr	Bd	60	Mid-grey to green and brown laminated siltstone with minor sandy interbeds. Variable late metasomatism, alteration varies from actinolite to epidote-calcite and chlorite, also minor phlogopite and diopside. Generally well bedded with fairly consistent BCA, although there is strong evidence of folding at around 235m. Minor sulphide associated with phlogopite alteration and actinolite veining, po-py.
East_Av	A185	238.5	246	Ccc	SKRN	PrCa	A3	1.00	Ft	Bd		Dark grey to pale grey-green intensely altered and metasomatised volcanoclastic siltstone and breccia. Interval starts and ends with dark grey magnetite bearing altered siltstones, and the central part is pale, bleached siltstone and breccia with very strong phrenite alteration. The magnetite generally has associated calcite and some sulphide, from very fine grained disseminations of pyrite (possibly cp) to coarse grained disseminated red (iron-rich) sphalerite.
East_Av	A185	246	246.5		FALT	Cy			Ft			Brittle fault in volcanoclastics; little alteration, core very broken and rubbly, minor clay alteration
East_Av	A185	246.5	254.3	Ccc	GWAC	PhAc	B4	0.20	Ft			Dark brown feldspar-phyric greywacke/siltstone, minor basaltic lithic-breccia. Strong pervasive phlogopite alteration and minor actinolite alteration. Minor pyrite mineralisation in veins and along fracture planes. Core heavily broken. Includes 0.20m core loss.
East_Av	A185	254.3	254.9		FALT	CyCh			Ft			Brittle, slightly puggy fault in volcanoclastics; clay and minor chlorite alteration, core very broken and rubbly.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A185	254.9	266.5	Ccc	GWAC	PhAc	B4	0.30	Ft	Bd	45	Dark brown feldspar-phyric greywacke with very minor siltstone. Moderately phlogopite altered, heavily broken and heavily veined. Sulphide mineralisation along fractures (pyrite) and in actinolitic/chloritic veins (chalcopyrite)
East_Av	A185	266.5	266.9		FALT				Ft			Brittle fault in volcaniclastics, no apparent alteration but slightly rounded rubble (ie alteration may have been washed away while rubble rolling around in bit)
East_Av	A185	266.9	340.6	Ccc	GWAC	PhAc	G5	0.10	Gr			Massive dark green/grey/brown feldspar-phyric greywacke with some siltstone. Moderately phlogopite altered, with zones of strong actinolite alteration/veining. Actinolite veins containing some epidote/galena/chalcopyrite towards lower contact. Infrequent quartz and diopside veining towards upper contact. Epidote/actinolite veining toward lower contact sub-parallel to core axis resulting in very broken core.
East_Av	A185	340.6	344.2	Ccc	EBLB	AcDi	B4		Ft			Dark brown, white and green mottled, poorly sorted, polymictic lithic breccia. Sub rounded clasts, dominantly silt stone. Zonal pervasive actinolite alteration with siltstone clasts diopside altered (alteration may be pre or post brecciation). Very heavily actinolite (possibly chlorite) veined.
East_Av	A185	344.2	344.8		FALT				Ft			Brittle fault in brecciated siltstone. No apparent alteration.
East_Av	A185	344.8	346.3	Ccc	EBLB	AcDi	B4		Ft			Dark brown, white and green mottled, poorly sorted, polymictic lithic breccia. Sub rounded clasts, dominantly siltstone. Zonal pervasive actinolite alteration with siltstone clasts diopside altered (alteration may be pre or post brecciation). Very heavily actinolite (possibly chlorite) veined.
East_Av	A185	346.3	346.4		FALT	Cy			Ft	Ft	65	Small puggy brittle fault. Strong clay alteration (or possibly a thick layer of gouge) with finely broken fault breccia clasts.
East_Av	A185	346.4	356.8	Ccc	VBLB	AcPh	G3	0.50	Ft			Massive mid green to dark brown volcaniclastics; combination of epiclastics (breccia and greywacke) and flow breccia. Alteration is mainly actinolite, there is also a zone of intense phlogopite alteration. The phlogopite altered zone has quite a lot of pyrite and minor pyrrhotite, and there is some disseminated chalcopyrite just downhole of the upper (faulted) contact. Minor diopside.
East_Av	A185	356.8	356.9		FALT	Ch			Ft			Small brittle fault. Core very broken, chlorite altered but no gouge/clay.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A185	356.9	363.4	Cba	VBLB	AcCh	G4		Gr			Massive dark green to mottled green and off-white, strongly altered and metasomatised basaltic volcanoclastic breccia. Strong actinolite-diopside alteration, overprinted with chlorite and a pale grey mineral, possibly prehnite. Minor epidote present.
East_Av	A185	363.4	365.8	Cba	SKRN	CaMt	A4	0.10	Gr			Massive mottled dark to light grey calcareous siltstone? Some calcite rich zones, patchy metasomatic magnetite alteration, some chlorite. Very minor chalcopyrite associated with magnetite.
East_Av	A185	365.8	371.1	Cba	VBLB	AcPr	G3		Ft			Massive mottled dark green and pale grey strongly altered and metasomatised basaltic volcanoclastic lithic breccia? Strong actinolite alteration, lesser diopside, overprinted with epidote-prehnite and pinkish tinged diopside (?). Minor phlogopite. Some siltstone, either as breccia clasts or interbeds. Alteration is somewhat texturally destructive.
East_Av	A185	371.1	372.8		FALT	Ch			Ft			Rubbly brittle fault, core strongly broken but little alteration other than chlorite.
East_Av	A185	372.8	398.8	Cba	VBLB	AcPh	G3	0.30				Massive mid green to dark brown volcanoclastics; combination of epiclastics (breccia and greywacke) and flow breccias. Alteration is split between actinolite and diopside dominated zones and other zones with strong phlogopite alteration. Sulphides (po-py) are concentrated in the phlogopite altered zones. Foliation (esp. in fine grained -devitrified- material) varies from parallel to core axis to 70 degrees to core axis. Minor tourmaline.
East_Av	A185	398.8	400.3	Cba	SKRN	ChMt	G5	0.10	Sp			Massive very dark green and grey intensely metasomatised volcanoclastics, probably breccia. Intense chlorite (biotite?) alteration with lesser magnetite and a white, moderately soft non-acid reactive mineral (magnesite?). Minor calcite veins.
East_Av	A185	400.3	407.8	Cba	VBLB	AcPh	G3	0.20	Gr	Bd	70	Massive mid green to dark brown volcanoclastics; combination of epiclastics (breccia and greywacke) and flow breccias. Alteration is split between actinolite and diopside dominated zones and other zones with strong phlogopite alteration. Sulphides (po-py) are concentrated in the phlogopite altered zones. Bedding varies from 70 to 45 degrees to core axis.

Alliance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A185	407.8	420.8	Cba	VBLB	PhAc	B4	0.20	Gr	Bd	60	Massive mid green to dark brown volcanoclastics; combination of epiclastics (breccia and greywacke) and flow breccias? Alteration is dominated by strong phlogopite, with only minor actinolite-diopside alteration. Some graded beds in feldspar phyric greywacke give downhole facing. Minor disseminated pyrrhotite and pyrite, mostly associated with actinolite altered patches/veins.
East_Av	A185	420.8	462.2	Ccc	GWAC	PhAc	B4	0.30	Ft			Massive dark brown to dark grey feldspar phyric greywacke. Strong to moderate phlogopite alteration. Bedding very difficult to distinguish. Abundant small chlorite-actinolite veins, also small patches of actinolite alteration. Some minor disseminated chalcopyrite associated with quartz, also pyrite and pyrrhotite in veins and disseminations, locally common but overall sparsely occurring. Occasional brecciated zones, minor siltstone.
East_Av	A185	462.2	462.3		FALT				Ft			Small slightly puggy brittle fault. No alteration, minor gouge development. Core heavily broken
East_Av	A185	462.3	463.5	Ccc	GWAC	Ac	G3		Ft			Dark green and brown feldspar phyric greywacke. Strong actinolite alteration, minor phlogopite alteration.
East_Av	A185	463.5	463.6		FALT				Ft			Small brittle fault in greywacke; no alteration, core very broken.
East_Av	A185	463.6	510.3	Ccc	GWAC	PhAc	B4		Ft	Bd	15	Massive dark brown to dark grey feldspar phyric greywacke. Strong to moderate phlogopite alteration. Bedding generally difficult to distinguish. Common small chlorite-actinolite veins, also small patches of actinolite alteration. Common quartz veins. Bedding varies from parallel to core axis to around 15 degrees. Possible open fold hinge at 509.2m.
East_Av	A185	510.3	510.5		FALT	Ch			Ft			Small brittle fault in greywacke; minor chlorite alteration, core very broken.
East_Av	A185	510.5	515	Ccc	GWAC	Ph	B4			Bd	15	Massive dark brown to dark grey feldspar phyric greywacke. Strong to moderate phlogopite alteration. Graded beds give facing uphole. EOH

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A187	0	0.7	Cdg	CONG		A4		Bk			Massive dark grey polymictic lithic conglomerate, rubbly unweathered (transported) Clasts of chert, siltstone and basaltic clasts in an actinolite altered matrix.
East_Av	A187	0.7	1.2	Cdg	CLAY	CyLi	R4		Bk			Dark red-brown clay, intensely weathered conglomerate? Larger fragments have conglomerate texture. Material is intensely weathered and completely altered to clay, limonite and goethite.
East_Av	A187	1.2	5		LOSS							No core recovery.
East_Av	A187	5	14.6	Cdg	CONG	CyLi	B3		Gr			Massive, strongly to intensely weathered polymictic lithic conglomerate. Strong clay, limonite and goethite alteration. Some rubbly patches, possibly brittle faults? Some pyrolusite on fractures.
East_Av	A187	14.6	18.2	Cdg	CONG	AcCy	G3		Gr			Massive, mildly weathered polymictic lithic conglomerate. Poorly sorted, clasts of chert, siltstone, rhyolite and basaltic clasts in a basaltic actinolite altered matrix. Weathering largely confined to fractures, minor clay, limonite and pyrolusite.
East_Av	A187	18.2	36.9	Cdg	CONG	AcLi	G3		Ft			Massive, green and white polymictic lithic conglomerate. Poorly sorted, clasts of chert, siltstone, rhyolite and basaltic clasts in a basaltic actinolite altered matrix. Some clay-limonite alteration on fractures.
East_Av	A187	36.9	37.8		FALT	CyLi			Ft			Two small brittle faults with competent conglomerate in the centre; some clay-limonite alteration associated with faults.
East_Av	A187	37.8	44.2	Cdg	CONG	AcCy	G3		Sp	Bd	80	Massive, green and white polymictic lithic conglomerate and minor interbedded coarse sandstone. Clasts of chert, siltstone, rhyolite and basaltic clasts. Lower contact is moderately altered over the final 3m, it is leached and somewhat vuggy with some clay and chlorite alteration. This contact may be faulted, although the rock is essentially intact.
East_Av	A187	44.2	50		SILT	SiPh	P4	0.80	Ft	Bd	30	Dark purple-brown laminated siltstone. Strongly silicified(?) with moderate phlogopite alteration and minor actinolite. Disseminated pyrite and pyrrhotite, very minor sphalerite. Rock is indurated and brittle, relatively fractured.
East_Av	A187	50	57.6		FALT	CyCh			Ft			Brittle fault zone, consists of numerous rubbly broken zones interspersed with short runs of intact core. Alteration is minor clay and chlorite, not all fractures are altered.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A187	57.6	59.9	Cba	VBLB	AcCh	G4		Ft			Massive, dark green strongly altered basaltic volcanoclastics, probably breccia? Very strong actinolite alteration with some later chlorite alteration, minor calcite, epidote, siderite and veins of fine grained phlogopite/biotite. Primary textures difficult to discern. Some leached (vuggy) textures.
East_Av	A187	59.9	60		FALT	Ch			Ft			Small brittle fault, rock extremely broken, rubbly, minor gouge.
East_Av	A187	60	63.7	Cba	VBLB	AcCh	G4		Gr			Massive, dark green strongly altered basaltic volcanoclastics, probably breccia? Very strong actinolite alteration with some later chlorite alteration, minor calcite, epidote, siderite and veins of fine grained phlogopite/biotite. Primary textures difficult to discern.
East_Av	A187	63.7	77.9	Cba	CARB	CaAc	G4		Gr			Massive, mottled dark green and off-white carbonate. Rock is composed of calcite, actinolite and chlorite. There are some foliated (bedded?) patches, foliation is around 80 degrees to core axis. Some brecciated textures. Minor decomposed epidote. Possible strongly altered volcanoclastics?
East_Av	A187	77.9	93.3	Cba	VBLB	AcCh	G4	0.10	Gr			Massive, dark green strongly altered basaltic volcanoclastics, probably breccia? Very strong actinolite alteration with some later chlorite alteration, minor calcite, epidote, and veins of fine grained phlogopite/biotite. Primary textures difficult to discern, although it appears the epidote may have selectively replaced clasts. Occasional leached vuggy patch, possibly very small brittle faults, minor pyrite euhedra associated with one.
East_Av	A187	93.3	102.9	Cdg	CONG	AcSi	G3		Gr			Massive, mottled green and white intensely altered and metasomatised coarse grained clastic rock, possibly conglomerate. Intense silica-actinolite alteration, minor epidote-calcite overprinting and some chlorite alteration. Textures are loosely suggestive of conglomerate although the sub-rounded to rounded 'clasts' may be alteration related. Around 60% of the rock is green actinolite, most of the remainder is rounded to sub-angular patches of pale siliceous material from 10mm to 100mm in size.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A187	102.9	122.1	Cba	VDLC	AcSi	G3		Sp			Massive mottled green and white, intensely altered and metasomatised intermediate to felsic volcanoclastics. Rock has a coarse sandstone texture with some conglomeratic zones, although the textures are somewhat obscured by alteration. Rock is largely actinolite-silica-feldspar, with minor epidote and calcite. Some patches have abundant euhedral feldspar(?) crystals partly altered to sericite.
East_Av	A187	122.1	125.1	Cba	VBLF	AcCh	G4		Sp			Massive dark green, fine grained basaltic volcanoclastics. Intense actinolite-chlorite alteration, minor epidote. Includes 0.2m of strongly silica-phrenite altered conglomerate.
East_Av	A187	125.1	141.8	Ccc	SKSP	TmCa	G1	1.50				Massive pale green and grey intensely altered and metasomatised skarned serpentinite. Strong tremolite-calcite-diopside alteration. Minor chlorite. Sulphides include pyrrhotite, sphalerite and very minor chalcopyrite. Pentlandite may or may not be present. Sphalerite is coarse grained and euhedral. Very minor zaraitite. Very minor galena. Minor disseminated opaques, probably chromite (weakly mag).
East_Av	A187	141.8	147.9	Csu	SERP	SpTm	A5	1.00	Ft			Massive black and grey serpentinite and mottled moderately altered serpentinite. Approx 75% black antigorite, remainder is mottled grey moderately tremolite(?) altered. Disseminated magnetite and some stylonitic magnetite veins present. Approx 1% disseminated coarse brassy sulphide, probably pentlandite.
East_Av	A187	147.9	148.9		FALT	TcCy			Ft			Brittle fault in serpentinite; actually two small faults approx 0.8m apart, probably related, intact core in between. Puggy talc-clay alteration in faults and minor fault breccia present.
East_Av	A187	148.9	157.3	Csu	SERP	SpTm	A3	0.80	Sp	Fo	80	Massive black and grey serpentinite, patchy variable tremolite-diopside alteration. Alteration varies from mild tremolite to intense tremolite-diopside. Sulphide is concentrated in areas without tremolite-diopside overprinting. Sulphide is likely pentlandite, in large disseminated grains. Lower contact zone is foliated and contains several small (cm scale) faults, with gouge and/or fault breccia development; faulting is parallel to (mylonitic?) foliation, indicating considerable localised strain.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A187	157.3	160.2	Ccc	SILT	Ac	G4	0.10	Sp	Bd		Dark green strongly altered and brecciated siltstone. Intense pervasive actinolite alteration, minor vein related phlogopite-biotite. Appears largely laminated, but bedding is brecciated with inconsistent orientations. Single small vein of sulphide that is probably mostly nicolite.
East_Av	A187	160.2	170.6	Cba	VBLB	AcPr	A3	0.10	Ft	Fo	70	Green and white, pink and grey moderately skarn altered basaltic volcanoclastic breccia. Strong actinolite-diopside alteration with variable epidote-axinite overprint and moderate late prehnite alteration. Minor pyrite in veins. Breccia consists of relatively small basaltic clasts in a diopside altered devitrified matrix with flow(?) foliation. Minor siltstone.
East_Av	A187	170.6	173		FALT	QzCy			Ft			Brittle fault; minor clay alteration and quartz-carbonate fill. Core very broken.
East_Av	A187	173	177.3	Cba	VBLB	AcDi	G3		Gr			Green and white, and purple-brown mildly skarn altered basaltic volcanoclastic breccia. Strong actinolite-diopside alteration with minor epidote overprint. Some phlogopite alteration towards lower contact (which is gradational).
East_Av	A187	177.3	193.5	Ccc	GWAC	PhAc	B4	0.20	Gr	Bd	70	Massive to layered, feldspar phyric greywacke and siltstone. Strong phlogopite alteration throughout with patchy minor actinolite +/- diopside overprinting. Probably facing downhole. Strongly hornfelsed. Several pyrite veins and minor pyrrhotite associated with actinolite veins. Phlogopite alteration decreases towards downhole contact.
East_Av	A187	193.5	200.6	Ccc	VBLB	AcDi	G3		Sp			Massive green and white basaltic volcanoclastic lithic breccia. Intense pervasive actinolite-diopside alteration. Consists largely of siltstone and greywacke clasts although there are some basaltic clasts. Matrix is mostly actinolite altered, rock probably a combination of in-situ (hydraulic) brecciated sediments and transported material.
East_Av	A187	200.6	214.6	Csu	SERP	SpMt	A5	0.10	Sp	Fo	70	Massive green-black serpentinite with magnetite aggregates. Very minor sulphide (likely pyrrhotite). Broken ground from 204-208m (fault zone?).
East_Av	A187	214.6	218.7	Ccc	VBLB	DiPr	A2	0.10	Gr			Weak, steep angled foliation (70) with fine talc(?) veins in the same orientation. Cream-grey, intensely diopside/prehnite altered, brecciated volcanoclastics. Minor epidote/axinite(?). Minor sulphides (pyrrhotite/arsenopyrite & late sphalerite/galena veins).

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A187	218.7	228	Ccc	VBLF	PhAc	B4	1.00	Ft	Bd	30	Intermittantly phlogopite and actinolite/diopside altered, dominantly fine-grained basaltic volcanoclastic(siltstone-greywacke). Zones of disrupted bedding/brecciation (appear to be associated dominantly with actinolite/diopside alteration). Sulphides along bedding /joint planes(pyrrhotite/pyrite) and in late veins(sphalerite/galena/pyrrhotite/pyrite).
East_Av	A187	228	229.2		FALT	Ch	B4	0.00	Ft	Ft	30	Brittle fault in volcanoclastics with chlorite and euhedral pyrite along fracture planes
East_Av	A187	229.2	241.5	Ccc	VBLF	PhAc	B4	0.50	Sp	Bd	30	Intermittantly phlogopite and actinolite/diopside altered, dominantly fine-grained basaltic volcanoclastic(siltstone-greywacke). Zones of disrupted bedding/brecciation (appear to be associated dominantly with actinolite/diopside alteration). Sulphides along bedding /joint planes(pyrrhotite/pyrite) and in late veins(sphalerite/galena/pyrrhotite/pyrite). Towards lower contact, phlogopite altered, feldspar-phyric greywacke dominant and sulphide (mainly pyrrhotite) % increases (late veining).
East_Av	A187	241.5	250	Ccc	VBLB	AcDi	A4	0.10	Gr	Bd	45	Dominantly actinolite/diopside/prehnite altered, basaltic volcanoclastic breccia. Zones of pervasive phlogopite alteration. Frequent veining with epidote/minor calcite.
East_Av	A187	250	283.1	Ccc	GWAC	PhAc	B4	0.50	Gr	Bd	30	Massive to layered, phlogopite altered, feldspar-phyric greywacke with minor siltstone. Quartz veining, increasing towards lower contact. Sulphide veining parallel to bedding plane (possibly foliation) Dominantly pyrrhotite, some pyrite, chalcopyrite and possible pentlandite.
East_Av	A187	283.1	287	Ccc	VBLB	PhAc	B4	0.00	Gr			Phlogopite/actinolite altered volcanoclastic breccia. Sub-rounded quartz(?) replaced clasts and angular (probably in situ vein brecciated clasts) of siltstones. Frequent actinolite veining.
East_Av	A187	287	338.1	Ccc	VBXF	AcPh	B4	0.10	Gr	Bd	20	Phlogopite/actinolite altered volcanoclastic siltstone and greywacke with very frequent, generally coarse crystalline actinolite(?) veining. Chlorite/Sericite in late veins with minor sulphide (possibly nikelite?). Magnetite vein at 293.6m. Minor calcite. Bedding appears to be very low angle (20) but is highly disrupted by actinolite veins. Lower contact is indistinct and most likely gradational. Actinolite alteration becomes increasingly prominent in proximity to gabbro(?).

Allegiance Metals Drill Log

Project	BHD	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A187	338.1	353	Cbg	GABB	AcSe	A3	0.00		Fo	30	Intensely actinolite/sericite altered gabbro with frequent carbonate(?) veins. Sericite appears to have replaced feldspars and actinolite replaced original mafic minerals. Weak to moderate foliation at 20-30 degrees to core axis. Appears to be equigranular(?). Possible lower contact (after chilled margin) at 352m but indistinct due to EOH at 353m.

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
East_Avet	A187	125	126	0.11				100	-20	-0.1	9.3	4.4			
East_Avet	A187	126	127	0.62				1350	60	1.7	10.0	4.8			
East_Avet	A187	127	128	0.34				600	-20	0.8	10.3	3.1			
East_Avet	A187	128	129	0.35				1200	20	0.5	10.8	2.8			
East_Avet	A187	129	130	0.16				1150	-20	0.1	10.4	2.2			
East_Avet	A187	130	131	0.18				950	-20	0.1	10.5	2.2			
East_Avet	A187	131	132	0.19				850	-20	0.1	10.6	3.7			
East_Avet	A187	132	133	0.20				1050	-20	0.2	11.4	2.9			
East_Avet	A187	133	134	1.29				6600	200	2.3	10.0	6.0			
East_Avet	A187	134	135	0.14				750	-20	0.1	10.8	2.0			
East_Avet	A187	135	136	0.19				550	-20	0.1	9.7	4.6			
East_Avet	A187	136	137	0.30				200	-20	0.3	11.5	4.1			
East_Avet	A187	137	138	0.16				100	20	0.2	14.0	4.1			
East_Avet	A187	138	139	0.05				50	-20	-0.1	10.3	3.4			
East_Avet	A187	139	140	0.14				100	-20	-0.1	10.2	4.9			
East_Avet	A187	140	141	0.09				300	-20	-0.1	12.7	2.2			
East_Avet	A187	141	142	0.15				50	20	0.1	19.9	5.0			
East_Avet	A187	142	143	0.16				50	60	-0.1	27.8	12.3			
East_Avet	A187	143	144	0.66				50	220	0.4	28.9	11.4			
East_Avet	A187	144	145	0.64				50	280	0.5	29.3	15.5			
East_Avet	A187	145	146	0.21				50	60	-0.1	27.3	8.0			
East_Avet	A187	146	147	0.23				150	100	-0.1	29.7	11.2			
East_Avet	A187	147	148	0.19				450	60	0.3	20.5	9.1			
East_Avet	A187	148	149	0.24				100	100	0.2	31.2	13.2			
East_Avet	A187	149	150	0.14				50	40	-0.1	26.7	8.6			
East_Avet	A187	150	151	0.14				100	80	-0.1	29	12.1			
East_Avet	A187	151	152	0.18				100	20	-0.1	22.6	7			
East_Avet	A187	152	153	0.12				50	-20	-0.1	19.6	5.1			
East_Avet	A187	153	154	0.19				50	40	-0.1	21.9	8			
East_Avet	A187	154	155	0.42				100	140	0.2	28.5	11.6			
East_Avet	A187	155	156	0.14				100	40	-0.1	28.4	10.2			
East_Avet	A187	156	157	0.34				250	80	0.3	25	6.5			
East_Avet	A187	157	158	0.08				350	40	-0.1	13.4	7			

Allegiance Metals - Drill Log

BHID A190

Collar

Project	BHID	Easting	Northing	RL	Depth	Date	Geologist
East_Aveb	A190	355551	5357282.5	2175.9	518	26/04/2007	KA

Surveys

Project	BHID	Depth	Azm_Amg	Dip
East_Aveb	A190	0	359.9	-60.1
East_Aveb	A190	25	359.21	-59.55
East_Aveb	A190	50	358.96	-59.69
East_Aveb	A190	75	359.25	-59.79
East_Aveb	A190	100	358.56	-59.46
East_Aveb	A190	125	359.08	-59.44
East_Aveb	A190	150	359.37	-59.54
East_Aveb	A190	175	359.47	-59.53
East_Aveb	A190	200	359.62	-59.8
East_Aveb	A190	225	359.98	-59.92
East_Aveb	A190	250	0.17	-60.07
East_Aveb	A190	275.1	0.3	-60.07
East_Aveb	A190	300	1.02	-59.81
East_Aveb	A190	325	1.94	-59.42
East_Aveb	A190	350	2.28	-59.03
East_Aveb	A190	375	2.93	-58.44
East_Aveb	A190	400	3.94	-57.71
East_Aveb	A190	425	4.46	-57.38
East_Aveb	A190	439.8	5.06	-57
East_Aveb	A190	450	5.2	-57
East_Aveb	A190	500	6.6	-56

Hole Sizes

From	Size
0	HQ
102.4	NQ

Drilled By

Boart Longyear

Analyses By

BRL

Comments

Gyro surveyed to 439.8m. Eastman dips from then on, and azimuth extrapolated from spin trend.

Significant Intersections

East_Avebury_Nth 164.0 - 174.6 10.6m @ 0.8% Ni, 0.05% As, 0.02% Co and 0.7% S.
 East_Avebury_Sth 151.0 - 152.0 No significant assays.

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A190	0	23.4	Oc	CONG	CyAc	O3	0.00	Sp			Intensely weathered, clay altered coarse grained clastic rock with minor finer grained rock. Conglomeratic, polymictic, dominantly clast-supported with rounded to sub-rounded (minor angular) clasts of dominantly silica/haematite altered sand/silt stone. Unweathered areas suggests an overall actinolite alteration (locally leached), otherwise, iron-rich clay and goethite/limonite alteration. Possible remnant bedding with bca of approx. 70 degrees. Extremely broken ground.
East_Av	A190	23.4	42.2	Oc	CONG	AcCy	G3	0.00	Sp			Dominantly actinolite altered, conglomeratic, polymictic, clast-supported with rounded to sub-rounded (minor angular) clasts of dominantly silica/haematite (pale pink) altered sand/silt stone and actinolite altered clasts of greywacke(?). Overall actinolite alteration with minor iron-rich clay and goethite/ilmenite alteration along fracture planes. Still relatively broken core. Towards lower contact, possible beds of sand-sized sed rock (greywacke?) with bca of approx. 70 degrees.
East_Av	A190	42.2	57.4	Ccc	VBLB	Ac	G4	0.10	Ft			Pervasively actinolite altered basaltic volcanoclastic breccia with frequent actinolite veins and some epidote(?) veins. Some silica/haematite altered zones (possibly ex situ clasts or early veins ie. Pre-actinolite veining/overprinting).
East_Av	A190	57.4	57.7		FALT		G4	0.00	Ft			Brittle fault in brecciated volcanoclastics.
East_Av	A190	57.7	59.3	Ccc	VBLB	SeCy	C3	0.00	Ft			Leached, sericite/clay altered, brecciated volcanoclastics. Some remnant actinolite alteration and minor epidote.
East_Av	A190	59.3	64.9		FALT	Cy	A3	0.10	Ft			Extensive brittle fault in phlogopite altered volcanoclastics. Minor clay alteration at up-hole extent of fault (fault zone?). Possibility that fault only extends to 61.6m and all broken ground below is extremely blocky from joints associated with fault.
East_Av	A190	64.9	70	Ccc	SILT	PhAc	B3	0.50	Ft	Bd	10	Layered, pervasively phlogopite altered, basaltic, volcanoclastic siltstone containing some apparently stratiform pyrite. Actinolite veining also with associated pyrite and chlorite. Low angle bedding (10degrees).
East_Av	A190	70	70.8		FALT		B4	0.00	Ft			Brittle fault in volcanoclastic siltstone.
East_Av	A190	70.8	75.3	Ccc	SILT	PhAc	B3	0.30	Ft			Layered, pervasively phlogopite altered, basaltic, volcanoclastic siltstone. Frequent actinolite veining with associated pyrite.

Allegiance Metals Drill Log													
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description	
East_Av	A190	75.3	75.9		FALT		B4	0.00	Ft			Brittle fault in volcanoclastic siltstone	
East_Av	A190	75.9	77.1	Ccc	SILT	PhAc	B3	0.10	Ft			Layered, pervasively phlogopite altered, basaltic, volcanoclastic siltstone. Frequent actinolite veining with associated pyrite.	
East_Av	A190	77.1	78.2		FALT		B4	0.00	Ft			Brittle fault in volcanoclastic siltstone	
East_Av	A190	78.2	80.4	Ccc	SILT	PhAc	B4	0.30	Gr			Layered, pervasively phlogopite altered, basaltic, volcanoclastic siltstone. Very frequent actinolite veining with associated pyrite and minor magnetite and unknown black mineral.	
East_Av	A190	80.4	83	Ccc	VBLF	AcDi	P2	0.20	Ft			Pale pink mineral (axinite or impure diopside?) and actinolite, dominant alteration minerals. Pervasively altered fine-grained volcanoclastic siltstone with very frequent actinolite veining.	
East_Av	A190	83	85		FALT	CySe	A3	0.00	Ft			Sericite altered, puggy clay filled fault.	
East_Av	A190	85	86.6	Ccc	VBLF	AcCy	G3	0.10	Ft			Intensely altered volcanoclastics. Dominantly pervasively actinolite altered, with late sericite/clay alteration along defects and preferentially altering clasts(?). Sericite may be replacing late epidote veins. Very minor pyrite.	
East_Av	A190	86.6	88		FALT	Cy	G	0.20	Ft			Puggy clay fault zone(?).	
East_Av	A190	88	88.9	Ccc	VBLF	AcEp	G3	0.00	Ft			Intensely altered volcanoclastics. Dominantly pervasively actinolite altered, with late sericite/clay alteration along defects and preferentially altering clasts(?). Sericite may be replacing late epidote veins. Very minor pyrite.	
East_Av	A190	88.9	89.6		FALT	Cy	A3	0.00	Ft			Puggy clay filled brittle fault.	
East_Av	A190	89.6	117.7	Ccc	VBLB	AcCa	G3	0.10	Gr			Intensely altered basaltic volcanoclastic breccia. Pervasive actinolite alteration with vein associated overprinting of epidote/calcite (skarn?). Unidentified brown mineral (serpentine derivative?) in late veins with calcite and epidote. Calcite clast replacement.	
East_Av	A190	117.7	131	Ccc	SKRN	EpCa	G1	0.00	Gr			Pervasively epidote/calcite/diopside (skarn) altered volcanoclastic breccia. Interstitial and vein associated calcite and epidote with some remnant diopside altered sub-angular to angular clasts(likely siltstone). Minor unknown brown mineral (serpentine derivative?). Possible fine grained axinite (pink tinge in some areas).	

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A190	131	138.5	Ccc	SKRN	PrEp	C2	0.10	Gr			Pervasively prehnite(?)/epidote skarn altered. Very minor remnant actinolite alteration increasing towards lower contact (<1m zones actinolite alteration). Fine grained massive prehnite and axinite(?) with epidote veins throughout.
East_Av	A190	138.5	150	Ccc	VBXF	AcSi	G3	0.00	Sp	Fo	30	Mottled green and white volcaniclastics. Mottled Actinolite and silica(?) alteration appears to be texture destructive but small zone of angular, rectangular, silica altered 'clasts' (possibly pseudomorphed feldspars) and 'clast'-like silica alteration along possible foliation/bedding suggests volcaniclastic texture. Small (<20cm) zones (veins?) of axinite?/epidote/prehnite? Alteration suggest outer edge of skarn alteration.
East_Av	A190	150	166.9	Csu	SKSP	TrCa	A2	0.10	Sp			Massive, pale green/grey intensely skarned serpentinite. Strong tremolite/calcite alteration with serpentine/chlorite veins. Minor sulphides: chalcopyrite and some pyrrhotite veins towards lower contact. Also iron-rich sphalerite. Disseminated euhedral black crystals (quite soft, possibly iron-rich chlorite psuedomorphs of chromite/titanomagnetite). Minor magnetite veins (with almost stylonitic appearance). Towards lower contact there appears to be some remnant actinolite altered zones.
East_Av	A190	166.9	174.6	Csu	SERP	SpMt	N	5.00	Sp	Fo	30	Massive black serpentinite with magnetite aggregates and disseminated sulphides (pentlandite/pyrrhotite-some larger pods locally). Magnetite and sulphides and small veins of black chlorite?/serpentine(?) appear to follow a foliation with bca 30.
East_Av	A190	174.6	178.4	Cbg	SKRN	DiAx	C3	0.10	Sp			Intensley skarn altered mafic rock (gabbro?). Pervasively diopside/fine-grained axinite/tremolite/epidote/prehnite altered. Minor calcite and remnant actinolite alteration. some diopside and/or actinolite altered 'clasts' that are sub-rounded to sub-angular indicating probbale volcaniclastic breccia. Minor sulphide (possibly pentlandite.
East_Av	A190	178.4	179	Ccc	VBLB	AcDi	G4	5.00	Ft			Intensely actinolite/diopside altered volcaniclastics with frequent fractures and vein associated and disseminated pyrrhotite/pentlandite(?).
East_Av	A190	179	179.1		FALT	SeCy	C4	0.00	FT			Brittle sericite/clay filled fault in intensely altered volcaniclastics

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A190	179.1	186.8	Ccc	VBLB	AcAx	G3	0.30	Sp	Fo	20	Intensely actinolite altered basaltic volcanogenic rock with intermittent zones of skarn alteration (axinite/tremolite/epidote) possibly veins. Small zone of sulphide and actinolite (metallic grey mineral: marmatite and metallic bronze mineral: possibly pentlandite?). Vein and foliation associated pyrrhotite and pyrite. Some chlorite/sericite alteration. Foliation may be remanant bedding(?).
East_Av	A190	186.8	188.6	Ccc	SKRN	AxTr	P1	0.00	Sp			Pervasively skarn altered mafic volcanogenic rock. Axinite and tremolite(?) dominant with lesser epidote. Late diopside(?) veining. Possibly minor schorl.
East_Av	A190	188.6	189	Ccc	VBLB	Se	A3	0.00	Ft			Pervasively sericite altered volcanoclastic breccia(?).
East_Av	A190	189	189.1		FALT	SeCy	A2	0.00	Ft			Puggy sericite/clay filled fault with remnant sericite altered rubble.
East_Av	A190	189.1	211.5	Ccc	VBLB	PhAc	B4	0.30	Ft			Massive to brecciated phlogopite altered volcanoclastic siltstone/greywacke. Epidote/tremolite alteration (vein and clast replacement) proximal to upper contact Diopside/actinolite veins throughout. Diopside veins increasing towards upper and lower contact with minor calcite. Phlogopite alteration dominant with actinolite locally pervasive. Minor sulphide: pyrrhotite. Brecciation appears to vein related.
East_Av	A190	211.5	212.1		FALT	Cy	A3	0.00	Ft			Puggy clay and rubble filled fault in volcanoclastics
East_Av	A190	212.1	214.3	Ccc	SKRN	AxTr	P2	0.00	Sp			Dominantly axinite/tremolite/epidote skarned volcanoclastics (veins?) with remnant intervals of actinolite altered volcanoclastics. Soft brown mineral in veins: serpentine derivative.
East_Av	A190	214.3	225	Ccc	GWAC	PhAc	B4	0.20	Gr	Bd	70	Massive to layered, phlogopite/actinolite altered basaltic, feldspar-phyric volcanoclastic greywacke, siltstone and minor agglomerate. Phlogopite dominant with zones of pervasively actinolite alteration. Small, fine-grained axinite vein. Minor sulphides including chalcopyrite and pyrrhotite. Frequent actinolite veining with an increase of diopside veining towards the lower contact. Possible bedding difficult to distinguish, bca 70 deg.
East_Av	A190	225	226.7	Ccc	VBLB	AcDi	G3	0.00	Sp	Fo	70	Pervasively actinolite altered volcanoclastic with very frequent diopside veins along foliation(?). 'clasts' are actinolite altered. Vein associated textures almost ignimbritic

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A190	226.7	228.4	Csu	SKSP	DiMt	A5	1.00	Ft			Semi-massive, pervasively skarn altered serpentinite with 20-40% magnetite aggregates and minor interstitial and vein associated calcite. Minor sulphide is likely pyrrhotite.
East_Av	A190	228.4	228.7		FALT	Cy	A4	0.00	Ft			Grey to black clay and minor rubble filled fault in serpentinite skarn.
East_Av	A190	228.7	232.5	Csu	SERP	SpMt	N	0.20	Sp			Massive black serpentinite with 10-40% magnetite aggregates and minor sulphide (likely pyrrhotite). Two small (<20cm) zones of SKSP. Very fractured core.
East_Av	A190	232.5	233.3	Csu	SKSP	DiMt	A3	0.10	Gr			Massive pervasively skarn altered serpentinite with 10-15% magnetite aggregates. Dominantly diopside altered with minor serpentine pods. Gradational lower contact with volcanoclastics.
East_Av	A190	233.3	242.6	Ccc	GWAC	AcDi	G3	0.10	Sp			Massive, pervasively actinolite altered feldspar-phyric greywacke with minor diopside veining. Minor sulphides: pentlandite and pyrrhotite. Locally pervasive phlogopite (iron rich) alteration towards lower contact.
East_Av	A190	242.6	246.3	Csu	SKSP	DiMt	A3	1.00	Sp			Massive grey, pervasively skarn altered ultramafics with approx. 20% magnetite aggregates. Diopside is the dominant alteration mineral with minor tremolite towards the downhole contact. Little to no calcite. Minor disseminated sulphide: pyrrhotite?/pentlandite? Colour grades from dark grey at upper contact to pale grey at lower contact.
East_Av	A190	246.3	252.4	Csu	SERP	SpMt	N	0.20	Ft			Massive black serpentinite with 5-10% magnetite aggregates and minor disseminated sulphide towards upper contact. Chrysotile on most joint planes.
East_Av	A190	252.4	252.6		FALT	Sc	W	0.00	Ft			Brittle, chrysotile altered fault in massive black serpentinite.
East_Av	A190	252.6	260	Csu	SERP	SpMt	N	0.20	Ft			Massive black serpentinite with 5-10% magnetite aggregates and minor disseminated sulphide towards upper contact. Chrysotile on most joint planes.
East_Av	A190	260	260.2		FALT		B	0.00	Ft			Rubby zone
East_Av	A190	260.2	262	Csu	SERP	SpMt	G5	0.00	Ft			Massive black serpentinite with 5-10% magnetite aggregates and minor disseminated sulphide towards upper contact. Chrysotile on most joint planes.
East_Av	A190	262	262.3		FALT	Sc	G5	0.00	Ft			Brittle, chrysotile altered fault in massive black serpentinite.
East_Av	A190	262.3	265.4	Csu	SERP	SpMt	G5	0.00	Ft			Massive black serpentinite with 5-10% magnetite aggregates and minor disseminated sulphide towards upper contact. Chrysotile on most joint planes.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A190	265.4	265.8		FALT	ScCy	A3	0.00	Ft			Rubby, chrysotile and clay altered fault in massive black serpentinite
East_Av	A190	265.8	276.4	Csu	SERP	SpMt	G5	0.00	Ft			Mottled green-black with minor grey serpentinite with approx 5% magnetite aggregates, associated with the paler grey mottling which appears to be composed of serpentine (chrysotile/minor antigorite) and talc. Most joints have chrysotile alteration. No visible sulphide.
East_Av	A190	276.4	276.6		FALT	ScCy	G5	0.00	Ft			Brittle, chrysotile altered fault in mottled serpentinite.
East_Av	A190	276.6	296.2	Csu	SERP	SpMt	G5	0.00	Ft			Mottled green-black with minor grey serpentinite with approx 5% magnetite aggregates, associated with the paler grey mottling which appears to be composed of serpentine (chrysotile/minor antigorite) and talc. Most joints have chrysotile alteration. No visible sulphide. Zone of massive black serpentinite from 287-288.5m.
East_Av	A190	296.2	296.4		FALT	Sc	W	0.00	Ft			Altered by very well-formed chrysotile fibres.
East_Av	A190	296.4	302	Csu	SERP	SpMt	G5	0.00	Ft			Mottled green-black with minor grey serpentinite with approx 5% magnetite aggregates, associated with the paler grey mottling which appears to be composed of serpentine (chrysotile/minor antigorite) and talc. Most joints have chrysotile alteration. No visible sulphide.
East_Av	A190	302	302.3		FALT	Sc	G5	0.00	Ft			Brittle, chrysotile altered fault in mottled serpentinite.
East_Av	A190	302.3	316.9	Csu	SERP	SpMt	N	0.00	Ft			Dominantly massive black serpentinite with 5-10% magnetite aggregates. Zones of mottled green serpentinite with chrysotile associated with magnetite. Consistent joint set (bca 30-40 deg) with chrysotile alteration/fill.
East_Av	A190	316.9	317.4		FALT	Sc	A3	0.00	Ft			Brittle, chrysotile altered fault in massive serpentinite.
East_Av	A190	317.4	319.4	Csu	SERP	SpMt	G3	0.00	Ft			Mottled dark and light green serpentinite with 5-10% magnetite aggregates. Aggregates associated with the paler mottling which appears to be composed of crystalline serpentine (chrysotile/antigorite), and talc.
East_Av	A190	319.4	319.8		FALT	CySc	A3	0.00	Ft			Clay filled fault in mottled serpentinite with minor chrysotile and serpentinite rubble
East_Av	A190	319.8	320.8	Csu	SERP	SpMt	G3	0.00	Ft			Mottled dark and light green serpentinite with 5-10% magnetite aggregates. Aggregates associated with the paler mottling which is composed of serpentine (chrysotile and antigorite), and talc(?). Chrysotile on joint planes.

Alliance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A190	320.8	321.2		FALT	ScCy	A3	0.00	Ft			Brittle fault containing clay and serpentinite rubble with some chrysotile.
East_Av	A190	321.2	333.1	Csu	SERP	SpMt	G4	0.00	Ft			Mottled dark and light green serpentinite with 10-20% magnetite aggregates Magnetite aggregates appear to have minor chrysotile and talc associated. Minor jointing with only a few having chrysotile and minor antigorite alteration.
East_Av	A190	333.1	333.5		FALT	Sc	W	0.00	Ft			Brittle fault in serpentinite with abundant euhedral acicular chrysotile.
East_Av	A190	333.5	347.1	Csu	SERP	SpMt	G5	0.00	Ft			Mottled dark green and grey serpentinite with magnetite aggregates (approx.10%) Magnetite aggregates are associated with green antigorite mottling and appear to decrease in abundance towards lower contact. Infrequent jointing with chrysotile on joint planes.
East_Av	A190	347.1	347.4		FALT	Sc	A3	0.00	Ft			Rubbly fault with minor chrysotile and talc(?) alteration.
East_Av	A190	347.4	350.6	Csu	SERP	SpMt	G4	0.00	Ft			Frequently jointed, mottled dark green and grey serpentinite with approx. 5% magnetite aggregates. Jointing dominantly at low angles.
East_Av	A190	350.6	351.6		FALT	ScCy	A3	0.00	Ft	Ft	20	Chrysotile and clay altered fault. Contacts at either end appear to have bca 20 deg
East_Av	A190	351.6	415.7	Csu	SERP	SpCh	G3	0.00	Ft	Fo	50	Mottled green and light green serpentinite. Lighter green mottling appears to have a chlorite/talc association with very minor magnetite (5% max). In some areas the mottling has a cream to white mineral spotting along the edges. Possible foliation along which talc(?) veinlets have formed with dominant bca of 50 deg. Possible minor faults at 419 and 397m. Increase in magnetite towards lower contact(mainly vein associated. Colour darkens towards lower contact. Also reduction in frequency of chrysotile altered joints.
East_Av	A190	415.7	417.2		FALT	CySc	A3	0.00	Ft			Brittle, rubbly fault with clay and chrysotile alteration at upper contact.
East_Av	A190	417.2	419		LOSS							1.8m core loss
East_Av	A190	419	419.2		FALT	Cy	A3	0.00	Ft			Brittle, rubbly fault with minor clay alteration.
East_Av	A190	419.2	442.2	Csu	SERP	SpMt	G4	0.00	Gr			Mottled green and light green serpentinite. Lighter green mottling appears to have a chlorite/talc/chrysotile association with magnetite aggregates (5%). Zones of more frequent magnetite aggregates.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A190	442.2	466.4	Csu	SERP	SpSc	G5	0.00	Gr			Mottled green and grey serpentinite. Lighter mottling appears to have a chlorite/talc/chrysotile association with magnetite aggregates (5%). Zones of more frequent magnetite aggregates. Undulating chrysotile veins and zones of frequent low angle, chrysotile altered joints/veins (minor talc?).
East_Av	A190	466.4	494.3	Csu	SERP	SpMt	G3	0.00	Ft			Mottled green and grey serpentinite. Lighter mottling appears to have a chlorite/talc/chrysotile association with magnetite aggregates (5%). Likely talc alteration throughout. Minor light green chrysotile(?) brittle and relatively soft
East_Av	A190	494.3	497.1		FALT	Sc	A3	0.00	Ft			Brittle fault or zone of intense jointing with well formed chrysotile alteration/fill.
East_Av	A190	497.1	505.8	Csu	SERP	SpSc	G3	0.00	Gr			Mottled grey-green and light green serpentinite with minor magnetite (3-5%) aggregates. Green to light green mottling is composed minor magnetite selvages and chlorite with pale green chrysotile(?). Most joints have chrysotile alteration. Small zone (approx 15cm) of dominantly pale green alteration mineral that appears to be fine grained chrysotile (brittle and relatively soft).
East_Av	A190	505.8	513.8	Csu	SERP	ScSp	A4	0.00	Gr			Zone of intensely jointed (Fault zone?), mottled green serpentinite with minor magnetite along selvages of mottling. Frequent low angle joints with chrysotile alteration (possible fault zone?).
East_Av	A190	513.8	517.7	Csu	SERP	SpMt	G4	0.00	Ft			Mottled grey-green and light green serpentinite with minor magnetite (3-5%). Magnetite (and chlorite) along mottling selvages and in veinlets. light green mottling likely antigorite and pale green chrysotile with minor talc. Small zone (vein?) of mod hard, pale cream mineral (prehnite?).
East_Av	A190	517.7	518		FALT		G4	0.00	Ft			Brittle fault in massive serpentinite. EOH.

Alliegance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A192A	86	87		CLAY	Cy			Bk			Broken rubbly ground and clay, strongly weathered greywacke rubble; has been rolling around in bit, may have collapsed from uphole.
East_Av	A192A	87	89	Ccc	GWAC	CyLi	B2		Bk	Bd	60	Mid grey to brown strongly weathered greywacke and siltstone. Well bedded, with generally small, rythmic beds. Strong clay alteration with minor limonite-geothite. No core recovery
East_Av	A192A	89	89.6		LOSS							
East_Av	A192A	89.6	93		CONG	CyLi	B2		Bk			Massive, intensely weathered polymictic conglomerate. Pale brown to orange brown, strong to intense clay-limonite alteration. Minor Fe-Mn oxides. 50-50 mix of quite intact material and totally disintegrated pug. Distinct conglomeratic texture in intact material. No core recovery
East_Av	A192A	93	94		LOSS							
East_Av	A192A	94	96.6		CONG	CyLi	B2		Ft			Massive moderately weathered polymictic conglomerate. Moderate to strong clay-limonite alteration. Mostly pale brown-tan, lower section has some green clasts where weathering is less intense. Recognisable clasts are basaltic, fine grained sedimentary rocks, and sparse chert and rhyolitic clasts.
East_Av	A192A	96.6	97.2		FALT	CyLi			Ft			Possible brittle fault. Core very broken. Strong clay alteration, minor limonite and Fe-Mn oxides. Could be fine grained sedimentary interval in conglomerate that is weaker and more weathered (hence broken). Also see below.
East_Av	A192A	97.2	101.6		CONG	CyLi	B3		Ft			Massive strongly weathered polymictic conglomerate and interbedded siltstone. Weathering varies from moderate to intense. Alteration is clay-limonite-chlorite. Proportion of pebbles-cobbles varies significantly, from essentially absent (in 0.3m which is matrix only) to abundant (almost clast-supported/closed framework).
East_Av	A192A	101.6	103		FALT	Cy	B4		Ft			Probable brittle fault in conglomerate? Very broken, intensely weathered/clay altered. No core recovery
East_Av	A192A	103	104.1		LOSS							
East_Av	A192A	104.1	105.6		CONG	CyLi	B3		Ft			Massive strongly weathered polymictic conglomerate and interbedded siltstone. Weathering varies from moderate to intense. Alteration is clay-limonite-chlorite. Proportion of pebbles-cobbles varies significantly, from essentially absent in siltstone/greywacke, to common.

Allegiance Metals Drill Log													
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description	
East_Av	A192A	105.6	106		FALT	Cy	B4		Ft				Probable brittle fault in conglomerate? Very broken, intensely weathered/clay altered.
East_Av	A192A	106	114.7		CONG	CyLi	B3		Ft				Massive strongly weathered polymictic conglomerate and interbedded greywacke. Weathering varies from moderate to intense. Alteration is clay-limonite-chlorite. Proportion of pebbles-cobbles varies significantly, from essentially absent in siltstone/greywacke, to common. In places, primary texture is totally destroyed. Common pyrolusite.
East_Av	A192A	114.7	116		FALT	CyLi	B3		Ft				Probable brittle fault in conglomerate. Very broken, intensely weathered/clay altered.
East_Av	A192A	116	119.1	Ccc	GWAC	PhCy	A4	0.10	Bk				Massive, largely unweathered feldspar phyrlic greywacke. Mild phlogopite alteration, moderately hornfelsed. Very broken. Some clay alteration, confined to veins at uphole end. Also pyrite-chlorite on fractures common.
East_Av	A192A	119.1	122	Ccc	GWAC	CyLi	B2		Ft				Massive, moderately weathered greywacke. Weathering and fracturing increasing towards downhole (faulted) contact. Mild weathering at uphole end, increasing to intense at downhole end. Alteration is clay-limonite-chlorite.
East_Av	A192A	122	123.4		FALT	CyLi			Ft				Brittle fault in greywacke? Very broken, intensely weathered/clay altered.
East_Av	A192A	123.4	124.3	Ccc	GWAC	PhCy	A3		Gr				Massive, mildly weathered greywacke. Very heavily broken. Minor chlorite-pyrite and Fe-Mn oxides on fractures. Grades into more strongly weathered material downhole.
East_Av	A192A	124.3	129	Ccc	GWAC	CyLi	B2		Gr				Massive, strongly weathered greywacke. Very heavily broken. Moderate to strong clay-limonite alteration. Some bedding textures preserved, bedding is disrupted and BCA is highly irregular. Fe-Mn oxides on fractures. Grades into less strongly weathered material downhole.
East_Av	A192A	129	130.8	Ccc	GWAC		A4		Bk				Dark grey-purple largely unweathered greywacke. Minor chlorite-clay-limonite alteration. Core heavily broken.
East_Av	A192A	130.8	131.8	Ccc	SILT	CyLi	B2		Ft	Bd	30		Mid orange-brown, heavily weathered siltstone? Strong to intense clay-limonite alteration. Core quite broken. Fabric, probably bedding, partly preserved with BCA 30-35 degrees.

Alliance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A192A	131.8	134.7		FALT	CyLi	B2		Bk			Probable brittle fault in deeply weathered siltstone. Intense clay-limonite alteration core very heavily broken. Largely chips and rubble rather than pug/gouge. Includes 0.4m of no core recovery.
East_Av	A192A	134.7	136		MMAG	MtCy	A5		Bk			Massive, dark grey-black massive magnetite, with lesser clay, limonite and geothite. Heavily broken.
East_Av	A192A	136	137		LOSS							No core recovery
East_Av	A192A	137	143.7		FALT	Cy			Ft			Very large puggy brittle fault zone. Intense clay alteration. Combination of pug and intact but soft altered fault breccia. Mostly clays; lesser tremolite, diopside, chlorite, magnetite, iron oxy-hydroxides, siderite and minor brassy sulphide at approx 140.6m
East_Av	A192A	143.7	145.7	Csu	SERP	SpMt	A4	0.10	Ft			Massive mottled dark grey-black and white moderately altered serpentinite. Abundant disseminated magnetite. Common tremolite alteration. Very minor brassy sulphide, grains are very small and may be pyrrhotite. Minor hematite. Strongly weathered adjacent to uphole faulted contact and fault downhole.
East_Av	A192A	145.7	146.3		FALT	Cy			Ft			Two puggy brittle faults in serpentinite. Strong dark brown clay alteration of gouge.
East_Av	A192A	146.3	147.1	Csu	SERP	SpMt	A4	0.10	Ft			Massive mottled dark grey-black and white moderately altered serpentinite. Abundant disseminated magnetite. Common tremolite-diopside alteration. Very minor disseminated brassy sulphide, grains are very small and may be pyrrhotite. Strongly weathered adjacent to uphole and dowhole faults.
East_Av	A192A	147.1	147.3		FALT	Cy			Ft			Puggy brittle fault in serpentinite. Strong clay alteration of gouge.
East_Av	A192A	147.3	167.7	Csu	SERP	SpMt	A4	0.10	Ft	Fo	30	Massive mottled dark grey-black and white moderately altered serpentinite. Common disseminated magnetite. Common tremolite-diopside alteration. Very minor disseminated brassy sulphide, grains are very small. Probably po and pe. Several leached, vuggy and somewhat weathered patches. Foliation quite consistent at 30 degrees to core axis, less prominent from around 155m onwards.
East_Av	A192A	167.7	170		FALT	CY			Ft			Puggy brittle fault in serpentinite. Strong clay alteration Clay is dark brown. Alteration extends (in a decreasing way) a further 0.5m into following interval.

Allegiance Metals Drill Log													
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description	
East_Av	A192A	170	172.8	Csu	SERP	SpMt	A5	0.10	Ft			Massive dark grey to black serpentinite. Common disseminated magnetite. Under magnification, texture appears to be possibly preserved cumulate textures. Very minor disseminated sulphide (pe?), grains very small. If texture is cumulate, sulphide is interstitial.	
East_Av	A192A	172.8	173.1		FALT				Ft	Ft	70	Puggy brittle fault in serpentinite. Strong clay alteration. Clay is dark brown. Alteration extends (in a decreasing way) a small distance into following interval.	
East_Av	A192A	173.1	176	Csu	SERP	SpTm	A4	0.10	Gr	Fo	35	Massive-foliated dark grey-black and white partly altered serpentinite. Minor disseminated magnetite, common crystalline tremolite-diopside alteration. Very minor, fine grained disseminated sulphide (pe/po?). Grades into semi-massive magnetite downhole.	
East_Av	A192A	176	176.8	Csu	MMAG	Mt	A4	0.20	Ft			Massive, silver grey and pale green semi-massive magnetite and serpentinite. Streaky-mottled textures. Serpentinite is mostly dirty olive green. Minor brassy sulphide associated with patch of brighter green mineral (possibly a secondary nickel mineral).	
East_Av	A192A	176.8	178.3		LOSS							Cavity. No core recovery.	
East_Av	A192A	178.3	179.6		FALT	Cy			Ft			Puggy brittle fault zone in sedimentary rocks. Core very broken, strong clay alteration.	
East_Av	A192A	179.6	186.6	Cdg	CONG	Si	G2		Ft			Massive pale green to pale grey-brown polymictic lithic conglomerate. Poorly sorted; some clasts sub-rounded. Clasts are basaltic volcanic/intrusive, sandstone, siltstone, chert and rhyolite/felsic volcanics. Lightly silicified. Quite intact and competent apart from adjacent to faulted ends.	
East_Av	A192A	186.6	187		FALT	Cy			Ft			Brittle fault separating conglomerate from gabbro. Quite broken, some puggy clay alteration.	
East_Av	A192A	187	189.1	Cba	GABB	AcEp	G3		Ft			Massive mid green fine grained gabbro. Strong pervasive actinolite alteration, minor late epidote alteration.	
East_Av	A192A	189.1	191.4		FALT	CyLi			Ft			Brittle, slightly puggy fault in gabbro. Minor clay and limonite alteration. Very broken. Somewhat leached and vuggy. More strongly epidote altered (pre-faulting) than preceding interval.	

Alliance Metals Drill Log													
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description	
East_Av	A192A	191.4	198	Cba	GABB	AcEp	G3	0.10	Ft				Massive mid green fine grained gabbro. Strong pervasive actinolite alteration, patchy-strong epidote alteration. Several leached vughy patches; these are also patches with strong epidote alteration although not all the strong epidote alteration is leached. Grainsize variable; coarse around 192-193m, finer away from there (possibly chilled margins?). Calcite and accessory axinite associated with epidote and a single small patch of sphalerite-galena-chalcopyrite also noted.
East_Av	A192A	198	202.6		FALT	Cy			Ft				Brittle fault (or series of closely spaced faults) in altered gabbro. Patchy strong clay alteration with minor limonite-geothite. Contains some relatively large intact pieces (up to around 100mm). Some massive clay (gouge?).
East_Av	A192A	202.6	210.8	Cba	GABB	AcEp	G3		Ft				Massive mid green very fine grained gabbro. Strong pervasive actinolite alteration, patchy-strong epidote-calcite alteration. Occasional leached-vughy patch. Some limonite-geothite joint/fracture alteration. Core relatively intact/unbroken.
East_Av	A192A	210.8	212		FALT	LiCy			Ft				Brittle fault in altered gabbo, core quite broken, moderate limonite-geothite alteration and minor clay alteration.
East_Av	A192A	212	216.3	Cba	GABB	AcEp	G3		Ft				Massive mid green very fine grained gabbro? Strong pervasive actinolite alteration, abundant strong epidote-calcite-clhorite overprint. Occasional leached-vughy patch and several very small (cm-scale) puggy clay altered faults.
East_Av	A192A	216.3	217.9		FALT	Cy			Ft				Puggy brittle fault in altered gabbro. Core very broken, strong clay alteration. Rubbly pieces in clay matrix. Includes approx 0.5m of no core recovery.
East_Av	A192A	217.9	219.5	Csu	CARB	CaDi	A3	0.10	Ft				Massive mid grey and mottled grey green carbonate, probably intensely altered and metasomatised ultramafic. Consists of calcite and diopside(?), with minor magnetite in disseminations and veins. Very small amounts of brassy sulphide noted, as very fine grained disseminations.
East_Av	A192A	219.5	221		LOSS								No core recovery
East_Av	A192A	221	222		FALT	Cy			Ft	Ft	90		Brittle fault, probably in altered ultramafic. Relatively intact but leached core at start, gritty clay at base. Very sharp lower contact beneath clay. Galena and sphalerite noted in leached rock.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A192A	222	226.6	Csu	CARB	CaSp	A3	1.00	Sp			Massive mid grey and mottled grey green carbonate, probably intensely altered and metasomatised ultramafic. Consists of calcite and diopside(?), with minor magnetite in disseminations and veins. Sulphide very common from about 224.5m onwards, particularly sphalerite which is abundant as disseminations and veins. Minor galena and chalcopyrite also present.
East_Av	A192A	226.6	231.5	Csu	SKSP	CaTm	A4	0.50	Ft			Massive mottled grey to black and green strongly altered and metasomatised ultramafics. At uphole end is abundant coarse grained magnetite and green serpentinite which grades into calcite-tremolite-diopside altered ultramafic. Minor disseminated sulphide (fine grained, brassy).
East_Av	A192A	231.5	232.3		FALT	Cy			Ft	Ft	30	Brittle, slightly puggy fault at lower contact of ultramafic. Minor clay alteration and minor vivid green serpentinite. 30 degrees to core axis.
East_Av	A192A	232.3	239.5	Cba	GABB	AcEp	G4		Gr			Massive mid green very fine grained gabbro? Strong pervasive actinolite alteration, abundant strong epidote-calcite-clhorite overprint. Textures much modified by alteration; could be strongly altered basaltic volcanoclastics.
East_Av	A192A	239.5	241.8	Cba	VBLB	DiPr	C3		Ft	Bd	30	Massive-foliated, cream, grey and green intensely altered and metasomatised basaltic volcanoclastic breccia? Strong diopside-prehnite alteration, also minor actinolite-epidote-calcite. In places, bedding textures are recognisable although these are brecciated and somewhat inconsistent.
East_Av	A192A	241.8	242.1		FALT	Cy			Ft			Brittle puggy fault, gritty gouge and breccia, strong clay alteration.
East_Av	A192A	242.1	257.9	Cba	VBLB	AcDi	G3	0.50	Ft	Bd	30	Massive, green, white and dark grey volcanoclastics. Highly variable; brecciated fine grained volcanoclastics (greywacke and siltstone), probable volcanics and minor polymictic conglomerate with sub-rounded to sub-angular clasts. Also small gabbro dyke(?) from 255.6-256.1m. All strongly altered; mainly actinolite-diopside with lesser epidote-calcite overprint. Some patches silicified; these tend to be pyritic. BCA from 30 to 60.
East_Av	A192A	257.9	262.5		FALT	CyLi			Ft			Brittle fault in volcanoclastics. Core quite broken, minor clay and limonite alteration on fine network of fractures, no gouge or massive clay.

Alliance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A192A	262.5	276.5	Cba	VBLB	AcDi	G3	0.50	Gr			Massive-foliated, green and white volcanoclastics. Combination of greywacke and siltstone and volcanoclastic breccia(?) with clasts in a streaky matrix that wraps around the clasts. Foliation, steepening downhole from 30 to 70 degrees. Some patches of massive felted actinolite. All strongly altered, mostly actinolite-diopside with lesser silica and epidote. Possibly deformed?
East_Av	A192A	276.5	287.4		FALT	EpCa	G3	0.20	Gr	Fo	60	Pale green to dark green and black, moderately to strongly foliated ductile fault (mylonite). Predominantly epidote and calcite, with lesser schorl and minor actinolite, and an orange-brown mineral with a similar form to epidote. Minor blebby sphalerite at uphole end. Probably Little Henty Fault, strongly metasomatised. Core is intact and rock reasonably strong.
East_Av	A192A	287.4	299.4	Cba	GABB	AcCa	G3		Gr	Fo		Massive-weakly foliated intensely altered gabbro? Felted mass of reasonably coarse grained actinolite and abundant fine grained calcite, minor epidote. Large vein of axinite, coarse euhedral quartz and massive datolite and calcite.
East_Av	A192A	299.4	305.8	Os	SAND	ChEp	G2		Gr	Bd	30	Pale green, well bedded, strongly altered sedimentary rock, probably sandstone. Strong chlorite-epidote-calcite-axinite alteration. Bedding somewhat variable, from 30 to 70 degrees BCA, possibly small scale open-gentle folds. Patches quite siliceous.
East_Av	A192A	305.8	306.8	Oc	CONG	CbSx	A2	2.00	Gr			Massive, strongly altered siliceous conglomerate. Strong dolomite-quartz-galenapyrite-chalcopyrite-sphalerite alteration.
East_Av	A192A	306.8	307.7	Os	SAND	SiCb	A2		Ft			Pale-mid grey siliceous pebbly sandstone and occasional larger clast (sparse conglomerate?). Minor carbonate-chlorite veining. Moderately broken.
East_Av	A192A	307.7	312.7		FALT	CyCh			Ft			Brittle fault in siliceous Owen Conglomerate and Sandstone. Core very broken. Minor clay-chlorite-limonite alteration.
East_Av	A192A	312.7	317.6	Oc	CONG	CaCh	A2		Ft			Massive pale grey siliceous clast supported conglomerate (Owen correlate). Minor chlorite alteration in matrix, calcite-chlorite-hematite veining. One large patch of strong calcite alteration, possibly a vein/healed vein breccia.
East_Av	A192A	317.6	318.4		FALT				Ft			Brittle fault in siliceous Owen Conglomerate and Sandstone. Core very broken. No significant alteration.

Allegiance Metals Drill Log													
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description	
East_Av	A192A	318.4	324.5	Oc	CONG	CaEp	A2		Gr			Massive pale grey and green siliceous conglomerate (Owen correlate). Proportion of matrix increases downhole, and grades into sandstone. Minor calcite-epidote-chlorite alteration in matrix.	
East_Av	A192A	324.5	356.6	Os	SAND	SiCh	A3	0.10	Ft	Bd	15	Mid to dark grey siliceous sandstone and siltstone, with slightly less intercalated conglomerate. Generally well-bedded to laminated, no grading noted. Bedding variable, small faults and minor folding apparent, but BCA generally low (<30). Some relatively coarse grained disseminated pyrite. Patchily broken. Conglomeratic intervals usually matrix supported, with minor mid-green chlorite colouration in otherwise siliceous matrix. Large late calcite veins towards lower contact.	
East_Av	A192A	356.6	359.1		FALT	Ca			Ft			Brittle fault in siliceous sandstone and conglomerate. Minor calcite alteration (vein fill). Core very broken, fracture intensity less from about 357.5m onwards, true base of fault unclear.	
East_Av	A192A	359.1	363.7	Oc	CONG	ChCa	A2					Massive pale grey siliceous conglomerate (Owen correlate) and pebbly sandstone. Minor chlorite alteration in matrix, minor calcite veining. Varies from coarse poorly sorted conglomerate to 'fine' grained conglomerate (pebbly sandstone). EOH.	

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
East_Avet	A192A	140	140.7	0.08				50	20	-0.1	20.6	6.1			
East_Avet	A192A	144	145	0.32				150	140	-0.1	25.1	14.6			
East_Avet	A192A	145	146	0.55				150	200	-0.1	25.5	14.8			
East_Avet	A192A	146	147	0.41				150	140	-0.1	26.8	11.3			
East_Avet	A192A	147	148	0.36				150	140	-0.1	31.3	9.5			
East_Avet	A192A	148	149	0.49				200	140	-0.1	33.6	11.5			
East_Avet	A192A	149	150	0.54				200	180	-0.1	33.4	11.7			
East_Avet	A192A	150	151	0.41				200	120	-0.1	34.5	11.1			
East_Avet	A192A	151	152	0.36				200	120	-0.1	35.1	9.6			
East_Avet	A192A	152	153	0.43				200	160	-0.1	29.9	11.4			
East_Avet	A192A	153	154	0.34				150	120	-0.1	35.6	9.2			
East_Avet	A192A	154	155	0.32				200	100	0.1	35.8	9.2			
East_Avet	A192A	155	156	0.34				150	100	-0.1	35.4	9.7			
East_Avet	A192A	156	157	0.32				150	120	0.1	36.1	9.2			
East_Avet	A192A	157	158	0.31				150	100	0.1	35.6	10.2			
East_Avet	A192A	158	159	0.35				150	120	0.1	35.4	9.2			
East_Avet	A192A	159	160	0.37				150	120	-0.1	33.4	10.3			
East_Avet	A192A	160	161	0.37				150	140	0.1	35.5	10.9			
East_Avet	A192A	161	162	0.47				150	180	-0.1	32.0	14.1			
East_Avet	A192A	162	163	0.35				150	120	-0.1	35.6	10.8			
East_Avet	A192A	163	164	0.30				150	100	0.1	36.2	10.3			
East_Avet	A192A	164	165	0.31				100	100	0.1	35.9	10.8			
East_Avet	A192A	165	166	0.31				100	100	0.1	36.4	10.6			
East_Avet	A192A	166	167	0.31				150	100	-0.1	37.7	10.7			
East_Avet	A192A	167	168	0.31				100	120	-0.1	33.9	12.4			
East_Avet	A192A	168	169	0.58				150	260	-0.1	28.3	18.7			
East_Avet	A192A	169	170	0.38				100	140	-0.1	36.6	11.4			
East_Avet	A192A	170	171	0.33				100	120	-0.1	37.9	9.8			
East_Avet	A192A	171	172	0.34				100	100	-0.1	35.8	10.3			
East_Avet	A192A	172	173	0.36				150	120	-0.1	30.6	12.2			
East_Avet	A192A	173	174	0.56				150	200	-0.1	26.4	14.3			
East_Avet	A192A	174	175	0.34				150	100	0.1	29.6	8.6			
East_Avet	A192A	175	176	0.28				150	60	-0.1	33.4	7.9			

Alliegance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A194	0	4.8		LOSS							No core recovery
East_Av	A194	4.8	45.7		CLAY	CyLi	B3		Gr			Massive mid to dark brown, orange and red clay. Some intact sticks, some rubbly patches. All intensely weathered, with complete clay-limonite-geothite alteration. Some Fe-Mn oxides on fractures. Parent textures generally unrecognisable, although at around 25m the parent rock was a lithic greywacke or lithic sandstone whose assorted lithic clasts have weathered to different clays while retaining their texture. There is a low angle foliation around 39m (10 degrees BCA).
East_Av	A194	45.7	65		CLAY	CyLi	B3		Gr	Bd	45	Massive mid to dark brown-orange and grey clay. Some intact sticks, some rubbly patches. All very strongly to intensely weathered, with near complete to complete clay-limonite alteration. Relatively common textural preservation shows parent rock to be fine grained volcanoclastics, greywacke and siltstone.
East_Av	A194	65	76.3	Ccc	GWAC	CyLi	A3		Ft	Bd	45	Massive-graded strongly to intensely weathered greywacke and siltstone. Dark grey (strongly weathered) to orange-brown (intensely weathered) with clay-limonite alteration. Common textural preservation. Probably facing downhole. Some rubbly patches but largely intact sticks.
East_Av	A194	76.3	82.3		FALT	CyLi			Ft			Possible brittle fault in deeply to intensely weathered greywacke? Core broken and rubbly, very strong clay-limonite alteration. Fe-Mn oxides common on breaks. Could be more deeply weathered siltstone or volcanics rather than true fault?
East_Av	A194	82.3	82.6	Ccc	GWAC	PhAc	P4		Bk			Mostly grey-brown colour, more deeply weathered than previous interval. Massive, dark purple-grey feldspar lithic greywacke. Unweathered. Hornfels spotting.
East_Av	A194	82.6	85.6		FALT	CyLi			Ft			Brittle fault in greywacke? Consists of broken rubbly pieces of largely unweathered greywacke and lesser amounts of clay. Minor limonite-geothite-Mn oxides on fractures.
East_Av	A194	85.6	94.1	Ccc	GWAC	PhDi	P4		Bk	Bd	60	Massive, dark purple-grey greywacke and siltstone. Mildly weathered to fresh. Moderate phlogopite alteration and minor diopside overprinting. Largely intact core, several rubbly broken patches with minor limonite alteration. Hornfels spotting. Bedding brecciated and/or contorted, BCA inconsistent.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A194	94.1	105.3	Ccc	GWAC	AcDi	G4	0.10	Bk			Massive, mid green and white and brown greywacke and siltstone, moderately altered. Moderate to strong actinolite-diopside overprint of phlogopite alteration. Patchy epidote, very minor pyrite. Bedding not recognisable - brecciated?
East_Av	A194	105.3	172.8	Ccc	GWAC	PhAc	B3	0.20		Bd	15	Mid brown and grey, well bedded to laminated lithic greywacke and siltstone. BCA mostly from low angle (≤ 15) to parallel to core axis. Some very coarse sandy beds. Mild to moderate, pervasive phlogopite alteration. Minor, patchy actinolite alteration. Coarse grained disseminated pyrite occurs sparsely. BCA steepens to around 45 in places downhole. Broken in patches but no definite faults. Several epidote veins towards downhole end of interval.
East_Av	A194	172.8	198.3	Cdg	CONG	AcDi	G4	0.10	Ft			Massive mid to dark green polymictic lithic conglomerate and minor intercalated sandstone and siltstone with contorted laminations (soft sediment deformation?). Generally matrix supported; clasts of chert (some hematized), siltstone, sandstone and basaltic clasts in a basaltic, actinolite altered matrix. Some diopside alteration, and some later epidote +/- calcite +/- pyrite alteration, at the downhole contact with coarse euhedral pyrite and abundant calcite.
East_Av	A194	198.2	198.6		FALT	Ch			Ft			Brittle fault in conglomerate? Somewhat broken, leached vuggy appearance. Late vein/fault fill of calcite and a zeolite - natrolite? Some chlorite alteration.
East_Av	A194	198.6	208.2	Cdg	CONG	AcEp	G4	0.10	Gr			Massive mid to dark green polymictic lithic conglomerate, moderately metasomatized. Very poorly sorted, matrix supported, clasts of fine grained sedimentary rocks and basaltic clasts in a basaltic, actinolite altered matrix. Common later epidote alteration. Single patch of phlogopite-pyrite-magnetite alteration around 207m.
East_Av	A194	208.2	231	Ccc	GWAC	PhAc	A3		Gr	Bd	0	Mid grey to dark brown lithic greywacke and siltstone, with very minor conglomeratic zones. Greywacke beds often coarse grained. BCA varies from sub-parallel to core axis uphole to around 45 degrees downhole. Minor phlogopite alteration, increasingly significantly downhole.
East_Av	A194	231	233.6	Cdg	CONG	AcEp	G4	0.10	Ft			Massive dark green polymictic lithic conglomerate. Clasts of fine grained sedimentary rocks and basaltic clasts in a basaltic, actinolite altered matrix.

Allegiance Metals Drill Log													
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description	
East_Av	A194	233.6	234		FALT	CyCh	G4		Ft			Possibly brittle fault in conglomerate. Minor chlorite and clay alteration. Core somewhat broken, leached vughy appearance.	
East_Av	A194	234	273.6	Cdg	CONG	AcEp	G4					Massive dark green polymictic conglomerate. Clasts of fine grained sedimentary rocks and basaltic clasts in a basaltic, actinolite altered matrix. Some late epidote-axinite alteration, mainly as selective clast replacement. Some clasts of felsic volcanics/volcaniclastics.	
East_Av	A194	273.6	276.3	Cba	VBLB	AcDi	G4	0.10	Ft	Fo	30	Massive dark green and white, strongly altered basaltic volcaniclastics. Strong actinolite-diopside alteration; some late skarn style overprinting of epidote, schorl axinite and calcite. Some streaky-foliated textures, foliation 30 BCA.	
East_Av	A194	276.3	279.7		FALT	CyCa			Ft			Brittle fault in altered volcaniclastics. Minor puggy clay at uphole end, some minor calcite fill. Core quite broken throughout.	
East_Av	A194	279.7	307.7	Cba	VBLB	PrAc	A2					Massive pale grey and green to dark green intensely altered and metasomatised basaltic volcaniclastic breccia? Strong prehnite-silica alteration, lesser actinolite diopside, epidote and possibly minor axinite. Hard, competent rock. Grades into conglomerate downhole; may be altered conglomerate rather than breccia.	
East_Av	A194	307.7	359.3	Cdg	CONG	AcSi	G3	0.10	Gr	Bd	55	Massive, green grey and brown polymictic conglomerate and lesser intercalated siltstone and greywacke. Conglomerate is matrix supported, clasts are basaltic, fine grained sedimentary rocks and rhyolitic. Some clasts sub-angular. Strong actinolite alteration and silicification(?). Minor phlogopite alteration. Few small broken patches, possibly minor faults? Some late calcite veining. Rare disseminated chalcopyrite and sphalerite.	
East_Av	A194	359.3	376	Cdg	CONG	AcPh	G3	0.20	Gr			Massive green and brown polymictic conglomerate. Moderate actinolite alteration, patchy-strong phlogopite alteration. Trace disseminated sulphides: galena, sphalerite, pyrite. Large calcite veins around 364 to 368m, including large zoned euhedral calcite crystals and associated vein pyrite. Epidote associated with disseminated galena-sphalerite. Minor pyrrhotite associated with phlogopite.	

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A194	376	399 END	Cba	VBLB	AcPh	G4	0.30		Fo	40	Massive-foliated green and brown basaltic volcanoclastic breccia and minor intercalated siltstone. Combination of brecciated siltstone and streaky-foliated flow' breccia with basaltic clasts in a very fine grained foliated matrix. Strong actinolite and phlogopite alteration. Disseminated gn-sp in small amounts, py-po veins also present. Minor late calcite veining. Some diopside alteration.

Alliance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A199	0	15.6	Ccc	CLAY	CyLi	O4		Gr	Bd	40	Dark orange-brown clay. Intensely weathered, probably lithic sandstone and siltstone; minor textural preservation indicates bedded sedimentary parent. Some intact core, some rubble. Minor loss. Fe-Mn oxides common on breaks.
East_Av	A199	15.6	21	Ccc	CLAY	CyLi	R4		Bk			Massive dark red clay. Intensely weathered. No textural preservation. Broken-rubbly lower contact.
East_Av	A199	21	29.5	Ccc	GWAC	CyLi	A4		Gr	Bd	50	Dark grey to dark brown, moderately to very strongly weathered lithic sandstone and siltstone. Graded beds facing uphole. Core commonly very broken. Possibly faulted around 23m. Moderate to intense clay-limonite alteration.
East_Av	A199	29.5	42 52.6	Ccc	GWAC	CyLi	A3		Ft			Massive dark grey-purple lithic sandstone and siltstone. Weathering and associated clay-limonite alteration essentially confined to fractures. Bedding indistinct.
East_Av	A199	42	42.4		FALT	CyPy	N	0.50	Ft	Ft	30	Small brittle faults in greywacke. Healed fault breccia with clasts of greywacke in pale clay altered matrix. Some pyrite alteration of breccia clasts.
East_Av	A199	42.4	53.7	Ccc	GWAC	Li	A3		Ft	Bd		Massive dark grey-purple lithic sandstone and siltstone. Minor limonite alteration on fractures, decreasing downhole. Bedding indistinct.
East_Av	A199	53.7	54		FALT	Ch	N		Ft			Probable brittle fault in greywacke. Core very broken, some chlorite on fractures.
East_Av	A199	54	61.6	Ccc	GWAC	Ac	A4		Bk			Massive dark grey-purple lithic sandstone and siltstone. Bedding brecciated. Abundant actinolite-silica veining associated with brecciation. Core quite broken although probably not significantly faulted. Small puggy fault at approx 59.6m.
East_Av	A199	61.6	65.6	Ccc	GWAC	Ac	A4		Bk			Massive dark grey-purple lithic sandstone and siltstone. Bedding indistinct. Minor actinolite-silica veining. Core quite broken
East_Av	A199	65.6	65.8		FALT		N		Ft			Probable brittle fault in greywacke. Core very broken, some chlorite on fractures.
East_Av	A199	65.8	87.2	Ccc	GWAC	Ac	A4			Bd	20	Massive to layered and graded dark grey-purple lithic sandstone and siltstone. Minor actinolite-silica veining. Parts very well bedded, facing uphole, BCA approx 20 degrees. Moderately hornfelsed. BCA steepens to approx 45 degrees downhole.
East_Av	A199	87.2	87.9		FALT	Ch	N		Ft			Possible brittle fault in greywacke/siltstone? Core moderately broken, bleached, perhaps merely fissile bed. Minor chlorite-clay(?) alteration.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A199	87.9	118	Ccc	GWAC	PhAc	P4	0.10		Bd	30	Very dark purple-grey lithic sandstone (greywacke), siltstone and minor shale. Quite hard, bedding usually difficult to discern due to uniform dark purple-grey colour; where detectable it is consistently at a low angle (~30 degrees). General decrease in grain size compared to uphole intervals. Minor pervasive phlogopite alteration(?) and common small actinolite-quartz veins. Very minor cp in veins (<0.1%).
East_Av	A199	118	166.3	Ccc	GWAC	PhAc	P5	0.10				Very dark purple-grey lithic sandstone (greywacke), siltstone and minor shale. Bedding usually difficult to discern due to uniform dark purple-grey colour. Increasingly hornfelsed downhole. Bedding brecciated in places, minor diopside alteration in siltstone where brecciated. Possible minor brittle fault at 126.4m. Minor to common actinolite veining.
East_Av	A199	166.3	191.2	Ccc	GWAC	AcPh	A5	0.00	Sp			Dark to pale green-grey and brown volcanoclastic lithic sandstone and siltstone. Alteration varies from strong actinolite to strong phlogopite, almost phlogopite schist-like in places. Bedding brecciated(?), difficult to recognise except in fragments. Minor diopside overprinting in siltstone fragments. Minor quartz and magnesite(?) veins. Abundant tourmaline towards lower contact. Hornfelsed.
East_Av	A199	191.2	192.5	Csu	SKSP	SpTm	C3	0.70	Ft			Massive, dark dirty olive green to very pale cream-green altered serpentinitised ultramafic. Mottled tremolite-diopside skarn alteration. Coarse pentlandite associated with semi-massive magnetite veining, and minor disseminated sulphide in black relatively unaltered serpentinite at downhole end of interval.
East_Av	A199	192.5	196.6		FALT	SpMt		0.20	Ft			Brittle fault and breccia in altered ultramafics. Some very broken core, some intact fault breccia with serpentinite clasts (some with minor disseminated sulphide) in a pale green, relatively hard matrix. Abundant magnetite. Some puggy clay.
East_Av	A199	196.6	204	Csu	SKSP	SpTm	A3	0.00	Gr			Mottled grey and green partly metasomatised serpentinitised ultramafic. Patchy dark green and black serpentinite with mottled tremolite-diopside skarn overprint. Commonly quite broken core. Abundant disseminated magnetite (>10%). No sulphide observed.

Allegiance Metals - Drill Log

BHID

A208

Collar

Project	BHID	Easting	Northing	RL	Depth	Date	Geologist
East_Aveb	A208	355113.5	5357030.6	2124.2	593.0	20/06/2007	DAE

Surveys

Project	BHID	Depth	Azm_Amg	Dip
East_Aveb	A208	0	0.0	-65.0
East_Aveb	A208	50	359.8	-66.0
East_Aveb	A208	100	359.2	-66.5
East_Aveb	A208	150	0.7	-66.8
East_Aveb	A208	200	3.3	-66.5
East_Aveb	A208	250	4.9	-66.4
East_Aveb	A208	300	7.3	-66.2
East_Aveb	A208	350	9.1	-66.1
East_Aveb	A208	400	9.9	-66.0
East_Aveb	A208	424.8	10.8	-66.0
Raw data (uncorrected single shot camera readings) :				
East_Aveb	A208	50	345.0	-66.8
East_Aveb	A208	100		
East_Aveb	A208	150	340.5	-67.0
East_Aveb	A208	200	345.0	-67.0
East_Aveb	A208	250	346.0	-67.0
East_Aveb	A208	300	344.0	-66.7
East_Aveb	A208	350	19.5	-66.9
East_Aveb	A208			
East_Aveb	A208	450	358.0	-66.8
East_Aveb	A208	500	13.0	-66.9
East_Aveb	A208	550	13.5	-67.1
East_Aveb	A208	593	16.0	-66.8

Gyro

Gyro

Gyro

Gyro

Gyro

Gyro

Gyro

Gyro

Gyro

Hole Sizes

From	Size
0	HQ
120.7	NQ2

Drilled By

Boart Longyear

Analyses By

BRL

Hole drilled with BLY LF70 rig; drilling commenced on 08/06/07; hole completed on 26/07/07; hole reamed at collar with PQ over HQ for installation of HWT casing. Gyro surveying completed by NES on 16/07/07 to 424.8m.

Comments

A208 was drilled to test Bison mineralisation at depth nominally on-section at 355100mE. The hole targeted a magnetic anomaly and an interpreted southern lobe of the East Avebury-Bison host ultramafic.

Significant Intersections

Bison 326.0 - 335.5 9.5m @ 0.4% Ni, 0.05%As, 0.01% Co and 0.1% S.

Bison 376.5 - 389.5 13.0m @ 0.8% Ni, 0.15% As, 0.05% Co and 1.3% S.

incl. 6.1m @ 1.1% Ni.

Bison 466.0 - 476.0 10.0m @ 0.6% Ni, 0.01% As, 0.01% Co and 0.3% S.

Bison 511.0 - 527.0 16.0m @ 0.5% Ni, <0.01% As, <0.01% Co and 1.4% S.

incl. 4.0m @ 0.8% Ni.

Allegiance Metals Drill Log

1/14

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A208	0.0	0.2	Oc	CONG		O2		NR			Very strongly weathered, rubbly, broken, overdrilled, near completely oxidised, clayey, pebble conglomerate; base of complete oxidation at 0.2m.
East_Av	A208	0.2	12.7	Oc	CONG		B2		BR			Very strongly weathered, partially oxidised, broken to very broken, in places clayey, fragmented, medium brown, orange-brown to pink-brown, coarse-grained, matrix-supported, granule to pebble conglomerate; rounded to sub-rounded, dominantly quartzite clasts up to 30mm in length; common soft, orange-brown, ochreous, ferruginous clay coating joints and partially replacing; sparse hematite alteration in relatively fresh conglomerate; base not recovered in broken core.
East_Av	A208	12.7	13.0	Oc	LOSS		C1		NR			Moderately weathered, very broken, fragmented, cream to light grey, pebble conglomerate; faceted, overdrilled core; depth limits uncertain due to core loss.
East_Av	A208	13.0	22.0	Oc	CONG		G2		NR			Fresh to weakly weathered, hard, solid to broken, medium pink-grey to green, fine to coarse-grained, matrix-supported, granule to pebble conglomerate; sub-rounded to sub-angular, polymictic clasts up to 40mm in length; finer, grading to close-packed, sandy, granule conglomerate in places; partially oxidised, with soft, ochreous, orange-brown clay in fractures and on some joints; minor dark brown-black Mn oxides coating fractures; sparse hematite alteration.
East_Av	A208	22.0	22.9	Oc	LOSS		G3		NR			Weakly weathered, moderately hard, extremely broken, fragmented core zone; loss zone in conglomerate.
East_Av	A208	22.9	25.3	Oc	CONG		G2		NR			Moderately weathered, partially oxidised, broken to locally fragmented, tending to clayey, light to medium green, matrix-rich, lithic, coarse-grained granule to fine pebble conglomerate; minor cream siltstone-shale lens from 23.8-24.2m; common orange-brown ferruginous clay coating joints and partially replacing; very broken at down hole contact, probably caved material.
East_Av	A208	25.3	28.2	Os	SSLT		C1		NR			Weakly weathered, partially oxidised, soft, broken, fractured, well-bedded, light cream-white to orange-brown, fine-grained siltstone-shale, with lesser granule conglomerate interbeds; steep bedding orientation at 8-15 degrees to core axis.
East_Av	A208	28.2	34.0	Os	SSLT		C3		FT			Moderately weathered, partially oxidised, very broken to fragmented, in places clayey, puggy, cream to brown-cream and orange-brown, fine-grained siltstone; minor irregular granule to pebble conglomerate lenses; puggy clay shear at base.

Allegiance Metals Drill Log

2/14

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A208	34.0	40.4	Oc	CONG		O4		NR	BD	35	Strongly weathered, partially oxidised, in places broken to fragmented, tending to clayey, medium orange to orange-brown, coarse-grained, matrix-supported, lithic, pebble conglomerate; becoming coarser down hole, with well rounded lithic clasts up to 70mm in diameter; rare siltstone-shale laminae at 36.8-36.9m, with younging up hole from grading; possible fault from 34.85-34.9m; minor black Mn oxides coating joints.
East_Av	A208	40.4	44.2	Oc	LOSS		O2		BR			Strongly weathered, partially oxidised, very broken to fragmented, tending to clayey, light to medium orange to orange-brown, very coarse-grained, lithic, pebble to cobble conglomerate; lesser very broken, soft, clayey siltstone-shale; major core loss throughout; few large rounded clasts of quartzite freed from decomposed clayey matrix; minor black Mn oxides coating joints and fractures.
East_Av	A208	44.2	45.7	Os	SSLT		O3		FR			Moderately to strongly weathered, partially oxidised, initially broken, fractured, medium orange to orange-brown, locally cream, poorly bedded, fine-grained siltstone to sandstone, with irregular lenses of matrix-supported, lithic, granule to pebble conglomerate; common weakly ferruginous clay partially replacing matrix in conglomerate; minor black-brown Fe and Mn oxides infilling joints and as thin selvages.
East_Av	A208	45.7	48.6		FALT		B2		BR	SH	10	Very strongly weathered, partially to near completely oxidised, broken, medium brown to dull yellow-brown, in places sheared, puggy clay; remnant conglomeratic textures preserved in some core fragments; minor dark brown Fe and Mn oxides coating fractures and partially replacing; core loss recorded.
East_Av	A208	48.6	56.9	Oc	CONG	Si	O3		SI	BD	38	Fresh to very locally weakly weathered, hard to very hard, indurated, massive to micro-fractured, medium grey to green and brown, very coarse-grained, pebble to cobble conglomerate; matrix-supported, with close-packed, sub-rounded, quartz and lithic clasts up to 120mm in diameter; some green volcanoclastic lenses from 53.3m; rare shale interbeds, as at 52.1m, with clay replacing; core generally intact, with irregular natural breaks and very rare broken to fragmented patches; sparse ochreous ferruginous clay in fractures.

Allegiance Metals Drill Log
3/14

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A208	56.9	57.0		FALT		B1		SP	FT	27	Fault zone infilled with soft, puggy clay and sub-angular rock fragments.
East_Av	A208	57.0	59.8	Oc	CONG	Si	G2		NR			Fresh to very locally weakly weathered, hard to very hard, indurated, massive to locally veined, medium green-grey to brown-grey, very coarse-grained, granule to pebble conglomerate; sandy matrix-supported, with close-packed, rounded, quartz and lithic clasts up to 40mm in diameter; rare shaley interbeds, with soft clay replacing; sparse white quartz veins and stringers; sparse ochreous ferruginous clay in fractures.
East_Av	A208	59.8	60.4	Oc	LOSS				NR			Very broken, fragmented, green-grey, coarse-grained, pebble conglomerate; minor puggy clay after shaley interbeds; major core loss zone.
East_Av	A208	60.4	71.2	Oc	CONG	Ac	G4		BR			Weakly to moderately weathered, broken to very broken, hard, locally indurated, medium to dark green, brown-grey, sandy, volcanoclastic granule conglomerate; minor light cream siltstone interbeds; becoming more siliceous, with lenses of very coarse-grained, matrix-supported, pebble to cobble conglomerate; minor to common orange-brown ferruginous clay in fractures and partially replacing; core fragmented in patches, with major core loss recorded.
East_Av	A208	71.2	72.0	Oc	LOSS		B2		NR			Weakly to moderately weathered, partially oxidised, very broken to totally fragmented, very coarse-grained, quartz-rich, pebble conglomerate; sparse quartz as discontinuous fibres on some fracture surfaces; major core loss zone.
East_Av	A208	72.0	72.2		FALT		O4		NR			Strongly oxidised, decomposed, soft, fractured, dark orange-brown, ferruginous clay; common black Mn oxides in fractures; original lithology unknown.
East_Av	A208	72.2	72.7	Os	SAND	Si	N1		NR			Fresh, very hard, becoming fragmented, lightest grey to white-grey, strongly silicified, fine-grained quartz sandstone, with scattered very large reworked quartz clasts; very broken core at down hole contact; depth limits uncertain.
East_Av	A208	72.7	73.9		LOSS		B5		GD			Strongly oxidised, decomposed, soft, dark brown, ferruginous clay; major core loss recorded at start of interval, with overdrilled core fragments recovered; possible fault zone.

Allegiance Metals Drill Log
4/14

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A208	73.9	74.6	Cba	VBLB	Ac	G4		BR	BN	45	Initially strongly oxidised, soft, clayey, becoming fresh, relatively hard, medium to dark green, banded, possibly bedded, actinolitised, basaltic volcanoclastic; generally fine-grained, with banded to nodular overprint; moderately to strongly actinolitised throughout; common Fe oxides, some possibly after sulphide.
East_Av	A208	74.6	76.6	Ccc	SAND		N1		SI	BD	70	Moderately oxidised, hard, very broken to fragmented, jointed, lightest grey to cream-grey, irregularly planar bedded, fine to medium-grained, quartz sandstone; weakly silicified; locally grading to fine granule conglomerate; minor soft clay and Fe oxides as thin coatings on joint planes.
East_Av	A208	76.6	77.75		FALT	QzAc	W2		SP	FT	50	Weakly oxidised, very hard, leached, vughy, white to grey-white and green, very fine-grained quartz vein infill; common brown-black Fe-rich sphalerite as coarse crystalline aggregates, estimated at 10-15%, with Fe oxides pseudomorphing and coatings in vughs; common quartz crystals in vughs; minor Fe oxides staining and in vughs.
East_Av	A208	77.75	79.4		LOSS		B4		NR			Strongly oxidised, soft, fragmented, dark yellow-brown to orange-brown, ferruginous clay; major core loss zone, possibly fault infill; few fragments of shattered quartz pebble conglomerate; depth limits uncertain due to core loss.
East_Av	A208	79.4	82.2	Cba	VBLF	Ac	N2		DF	BD	62	Weakly oxidised, relatively soft, light to medium grey and green, mottled buff and brown, well bedded, weakly calcareous, very fine-grained, volcanoclastic shale; planar bedded, locally contorted; moderately actinolitised in bands and around fractures; minor ferruginous clay partially replacing.
East_Av	A208	82.2	83.1	Cba	CLAY		B2		SP			Moderately oxidised, soft to very soft, puggy, medium brown to yellow-brown, weakly ferruginous clay; probably a leached, oxidised variant of volcanoclastic shale.
East_Av	A208	83.1	89.2	Cba	VBLB	AcDi	G3		DF	BN	25	Fresh to very weakly oxidised, relatively hard, disrupted, chaotic to banded, mottled dark and light green to cream, metasomatised, volcanoclastic breccia and minor shale; moderately to strongly actinolite-diopside-epidote altered throughout; possible sparse axinite in coarse clots and aggregates; tending to calc-silicate skarn; soft, puggy, light green clay zone from 86.25-86.5m.

Alliance Metals Drill Log
5/14

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A208	89.2	89.6	Cba	CLAY		B2		DF			Moderately oxidised, soft to very soft, puggy, medium brown to yellow-brown, weakly ferruginous clay; probably a leached, oxidised variant of volcanoclastic shale.
East_Av	A208	89.6	98.2	Cba	VBVF	AcDi	G2		NR	BN	20	Fresh, relatively hard, disrupted, banded, mottled light to medium green, cream and fawn, metasomatised, fine-grained, silt-grade to shaley volcanoclastics; moderately actinolite-diopside altered, tending to calc-silicate skarn; lesser cream-fawn, contorted volcanoclastic shale intermixed; trace white calcite as thin veins; tending to weakly oxidised near down hole contact.
East_Av	A208	98.2	98.4		LOSS				NR			Weakly oxidised, hard, overdrilled core fragments only; possibly caved material from up hole.
East_Av	A208	98.4	101.35	Cba	VBVF	DiAc	G2		SI	BN	25	Fresh, relatively hard, disrupted, banded, mottled light to medium green, cream and green-cream, metasomatised, fine-grained, silt-grade to sandy volcanoclastics; moderately actinolite-diopside-epidote altered, tending to calc-silicate skarn; contorted, disrupted compositional banding throughout.
East_Av	A208	101.35	105.55	Ccarb	VBVF	Di	G1		GD	BN	5	Fresh, initially soft, becoming hard, massive to banded, lightest grey, green-grey to fawn, very fine-grained, shaley volcanoclastics; stylolitic limestone lens from 101.35-102.1m; becoming more siliceous, with pervasive diopside and patchy actinolite-epidote alteration; gradational clayey oxidation contact.
East_Av	A208	105.55	107.2	Cba	CLAY		B4		BR			Moderately oxidised, soft to very soft, puggy, medium orange-brown, weakly ferruginous clay; probably a leached, oxidised variant of shaley volcanoclastics.
East_Av	A208	107.2	116.75	Cba	SSLT	AcCh	B3		SI	BD	35	Fresh, relatively hard, laminated, medium to dark grey, black-grey to green, fine to very fine-grained, calcareous to volcanoclastic siltstone; variably altered, with black chlorite-?talcl laminae and small patches; moderately actinolite-epidote altered volcanoclastic lenses; bedding laminae planar to slumped, disrupted and contorted; locally flame bedding structures; sparse white calcite as veins and veinlets; shear vein, at 30 degrees to core axis, from 116.2-116.45m, with core loss; fine intersecting needle-like crystals of calcite in 5cm thick cherty, silicified zone at down hole contact.

Allegiance Metals Drill Log

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A208	116.75	131.05	Ccarb	CARB	AcCh	N2	0.10	SI	BD	40	Fresh, relatively soft to moderately hard, micro-faulted, disrupted, light to medium grey, becoming dark green, altered, fine to very fine-grained, silty limestone; well-bedded to laminated, with complex deformation; common dark grey, chloritic and carbonaceous laminae; becoming increasingly actinolitised and chloritised, tending to skarn, from 126.6m; leached, Fe oxide stained zone from 129.5-129.65m; locally stylolitic; trace brown to reddish-brown sphalerite as scattered aggregates and clots; rare trace galena in 2mm thick late-stage calcite veins; strong reaction to HCl acid throughout, although weaker in skarn zones.
East_Av	A208	131.05	155.25	Ccarb	SKRN	AcDi	G3	0.10	SI	BN	45	Fresh, hard to moderately hard, crudely banded to massive, granular, in places indurated, mottled, medium green, brown, pink-cream to grey, fine to coarse-grained, complex calc-silicate skarn; dominantly actinolite-diopside-hedenbergite skarn, in places chloritic, with patches of coarse-grained, crystalline andradite garnet; minor patchy epidote streaks and bands; trace magnetite as aggregates; rare traces of mid-brown sphalerite as streaks and aggregates; remnant bedding locally preserved; sharp irregular down hole contact.
East_Av	A208	155.25	157.55	Ccarb	SKRN	DiMg	G2	0.50	DF			Fresh, moderately hard to relatively soft, streaked, contorted, weakly indurated, mottled, medium to dark grey, cream, locally brown, fine-grained, diopside-rich skarn; minor actinolite patches; common fine-grained magnetite as irregular streaks, stringers and aggregates throughout, estimated at 20% overall; trace to sparse rust-brown sphalerite aggregates; leached, vughy zones, with brown Fe and Mn oxides staining; diffuse alteration down hole contact.
East_Av	A208	157.55	163.30	Ccarb	SKRN	Di	G1	0.05	SI	BN	42	Fresh, hard, crudely streaked, banded to massive, tending to indurated, mottled, light green, cream, pinkish-grey, fine-grained, complex calc-silicate skarn; dominantly diopside-minor actinolite-sparse ?epidote skarn, with small ragged patches of coarse-grained, crystalline andradite garnet; locally cherty, with irregular quartz-rich patches; rare traces of mid-brown sphalerite as aggregates, mainly associated with garnet; sparse unidentified black mineral, possibly mgt. as disseminated sub-millimetric equant crystal grains; sharp down hole contact.

Allegiance Metals Drill Log

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A208	163.3	166.4	Ccarb	SKRN	DiMg	N3	0.30	DF			Fresh, hard, micro-fractured, veined, mottled, light to medium grey, grey-black, veined cream-white, fine to medium-grained, diopside-magnetite skarn; common fine-grained magnetite interstitial and as irregular veins, clots and aggregates, estimated at 10-15% overall; minor calcite-diopside veins; trace to sparse po. as small clots and aggregates intergrown with magnetite; diffuse alteration contact.
East_Av	A208	166.4	169.2	Ccarb	SKRN	DiAc	C3	0.20	SI			Fresh, hard to moderately hard, crudely streaked, banded to veined, mottled, light to medium cream, light brown to emerald green, fine to coarse-grained, calc-silicate skarn; dominantly diopside-minor actinolite-sparse ?epidote skarn, with minor coarse-grained, crystalline andradite garnet in small ragged aggregates and patches; trace mid-brown sphalerite as coarse aggregates associated with garnet; rare traces of po. as clots; sharp irregular down hole contact.
East_Av	A208	169.2	171.55	Ccarb	SKRN	MgDi	N4	2.00	DF			Fresh, hard to relatively soft, massive to micro-fractured, veined, dark grey-black, becoming light to medium grey, fine to medium-grained, magnetite-diopside-carbonate skarn; common fine-grained magnetite interstitial and as patches, aggregates and veins, estimated at 25-30% overall; trace calcite veins; sparse po. and cpy. as large aggregates; diffuse alteration contact.
East_Av	A208	171.55	182.45	Ccarb	SKRN	DiMg	G1	0.20	SI			Fresh, hard to very hard, crudely streaked to discontinuously banded, micro-fractured, mottled, lightest green, cream, brown to grey, medium to coarse-grained, calc-silicate skarn; dominantly diopside-carbonate-minor actinolite skarn, with patches of grey diopside-magnetite-carbonate skarn; minor to common brown andradite garnet as scattered, coarse-grained, crystalline aggregates; estimated 5-10% magnetite content overall; trace brown sphalerite as scattered clots and aggregates; rare trace po. as blebs; sharp irregular alteration contact.
East_Av	A208	182.45	189.75	Ccarb	SKRN	MgDi	N4	0.50	BR	BN	30	Fresh, relatively soft to hard, massive to micro-fractured, discontinuously banded, dark black-grey, fine-grained, magnetite-diopside skarn, with common patches of mottled cream-green, diopside-actinolite-carbonate skarn; common fine-grained magnetite, 20-25%; sparse sphalerite, po. and cpy. aggregates; sparse garnet.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A208	189.75	208.0	Cba	VBLB	AcCh	G5	0.50	DF	BD	42	Fresh, hard to very hard, irregularly banded, disrupted to fragmented, dark to very dark green, mottled black-grey and cream, fine to very fine-grained, silt-grade volcanics; common cream, indurated, cherty shale laminae and fragmented interbeds; strongly actinolitised and locally chloritised; patchy skarn, with actinolite-magnetite-sparse po.; minor axinite patches; irregularly oriented, contorted to fragmented bedding; altered, light purplish-brown, volcanoclastic shale becoming common from 206.9m; diffuse lithological change down hole.
East_Av	A208	208.0	242.5	Cba	GWAC	PhAc	B5	0.30	GD	BD	40	Fresh, hard to very hard, massive, locally fractured, becoming broken, disrupted to fragmented, dark to very dark brown, purplish-brown to black-grey, phlogopitised, fine-grained, silt-grade greywacke; minor slumped, disrupted, black-grey, carbonaceous siltstone lenses; grading into fine-grained, silty sandstone in places and in thin lobate interbeds; moderately phlogopitised, with sparse actinolite-tremolite alteration in and around veins and fractures; poorly bedded throughout; sparse quartz as stringers and veinlets; rare trace po. as blebs; rare trace py. on fracture planes; gradational lithology change at down hole contact.
East_Av	A208	242.5	248.7	Cba	SILT	PhAc	B4	0.20	VN	BD	42	Fresh, hard to very hard, broken, micro-faulted, disrupted to fragmented, dark dark brown, mottled dark green, pervasively phlogopitised, fine to very fine-grained siltstone-shale; minor disrupted, fine-grained wacke lenses and actinolitised volcanoclastic breccia patches; poorly bedded, with disrupted to fragmented laminae in places; trace quartz stringers; rare trace py. and po. as small blebs and aggregates; broken, with discontinuous quartz stringers, at contact.
East_Av	A208	248.7	253.45	Cba	GWAC	Ph	P5	0.00	SP			Fresh, hard, initially broken, veined, disrupted to fragmented, becoming massive, dark purple-brown to purple-grey, pervasively phlogopitised, fine-grained, silty greywacke; disrupted, chaotic, actinolitised volcanoclastic breccia at start of interval; indistinctly bedded throughout; sparse quartz veins and stringers; no sulphides noted; broken, with abrupt lithology change at down hole contact.

Allegiance Metals Drill Log
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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A208	253.45	269.2	Cba	CONG	AcPh	G5	0.00	DF	BD	30	Fresh, hard, massive, dark green, in places medium to dark brown, close-packed, matrix-supported, polymictic, volcanoclastic granule to pebble conglomerate; volcanoclastics; abundant sub-angular to sub-rounded, lithic clasts up to 40mm in diameter, in coarse sandy volcanoclastic matrix; indistinctly bedded, except for rare discontinuous shaley partings; clasts gradually coarsening down hole; no sulphides noted; diffuse down hole contact.
East_Av	A208	269.2	277.1	Cba	VBLB	PhAc	B5	0.00	SP	BD	40	Fresh, hard, massive, disrupted, dark brown, purple-brown, mottled green, moderately altered, silt-grade volcanoclastic, with common actinolitised, reworked volcanogenic clasts and fragmented laminae; locally conglomeratic lenses; semi-pervasive phlogopite alteration of matrix; disturbed, disrupted to fragmented bedding in places; minor reaction rims and selvages around actinolitised volcanoclastic lenses and clasts; trace quartz stringers; no sulphides noted; sharp cross-cutting down hole contact at 35 degrees to core axis.
East_Av	A208	277.1	306.3	Cba	CONG	AcPh	G4	0.00	DF	BD	35	Fresh, hard to very hard, massive, locally disrupted, mid to dark green, in places mid brown to purplish-brown, weakly altered, coarse-grained, matrix-supported, polymictic, volcanogenic conglomerate; minor lenses of brown, phlogopitised, silty granule to pebble conglomerate; semi-pervasive actinolite-tremolite alteration of matrix; rare planar to fragmented bedding preserved in places; sub-angular to sub-rounded lithic clasts ranging up to 40 mm in diameter, locally close-packed; trace quartz veins and stringers; breccia veins near down hole contact.
East_Av	A208	306.3	306.55		FALT	DiAc	G2	0.00	SI	FT	25	Fresh, hard to very hard, light green to cream-white cataclasite; minor fault infill; chaotic angular lithic clasts in white diopside-altered matrix.
East_Av	A208	306.55	318.4	Cba	CONG	AcAx	G4	0.00	SP	BD	30	Fresh, hard to very hard, massive, mid to dark green, in places cream-green, mottled grey-black, moderately altered, coarse-grained, matrix-supported, polymictic, volcanogenic conglomerate; minor lenses of dark green, actinolitised, silty volcanoclastic near start of interval; pervasive actinolite-tremolite alteration of matrix; rare bedding foliation preserved locally; sub-angular to rounded lithic clasts ranging up to 80 mm in diameter; patchy axinite-?schorl skarn overprint.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A208	318.4	323.8	Cba	SSLT	AcPh	G5	0.00	SI			Fresh, hard, massive, locally streaked, dark to very dark green, mottled medium to dark green, strongly altered, actinolitised, fine-grained volcanoclastic siltstone to sandstone; pervasive actinolite-tremolite alteration of matrix, with minor patchy phlogopite in places; very poorly bedded, with fragmented, cream cherty laminae near start of interval; trace quartz veins and veinlets.
East_Av	A208	323.8	332.1	Dsk	SKRN	DiQzSc	G1	0.20	DF			Fresh, hard to very hard, massive, in places indurated, silicified, mottled, light green, grey-green, grey-white, strongly altered, complex diopside-actinolite-quartz skarn facies, probably after volcanoclastics; minor light green actinolite-epidote patches, with possible fine schorl aggregates; trace emerald green alteration mineral, ?morenosite, as intergrowths locally; trace quartz veins and stringers; sparse magnetite aggregates near down hole contact; trace po. and pe. as blebs.
East_Av	A208	332.1	335.5	Csu	SERP	MgDi	N5	1.00	SI			Fresh, moderately hard, massive to locally micro-fractured, black to darkest grey-black, fine-grained serpentinite; minor white-cream diopside as crystal laths, aggregates and patches; abundant 30-40% magnetite interstitial and as fine-grained aggregates, locally semi-massive; sparse brassy pe. as blebs and small aggregates; sparse fibrous serpentine coating joint surfaces.
East_Av	A208	335.5	351.6	Csu	SKSP	DiMg	C2	0.30	SI			Fresh, hard to locally very hard, massive, streaked to spotted, micro-fractured, light to mid cream, cream-grey to lightest green, fine-grained diopside-tremolite skarn dominant, with common patches of massive, black, serpentine-magnetite; common 15-20% magnetite interstitial and as fine-grained aggregates, locally semi-massive; trace pe. and rare po. as blebs and rare embayed aggregates, as from 340.3-340.4m; massive calc-silicate skarn is locally stylolitic.
East_Av	A208	351.6	378.45	Csu	SERP	MgDi	N4	0.30	DF			Fresh, hard to moderately hard, massive to micro-fractured, black to very darkest green-black, fine to very fine-grained serpentinite, intermixed with patches and massive 1-2m zones of cream, lightest grey to white, fine-grained, diopside-tremolite-magnetite skarn; common 20-25% fine-grained magnetite interstitial and as aggregates, locally semi-massive in serpentinite; minor talc-tremolite patches; trace pe. and po. as blebs, exclusively in magnetite-rich patches.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A208	378.45	393.45	Csu	SERP	Mg	N6	2.00	BR	BN	50	Fresh, hard, massive, locally streaked to banded, black to darkest steel grey, fine-grained serpentinite; abundant 40-50% magnetite to 384.75m, as streaks, bands and aggregates, commonly semi-massive; conspicuous 1-2% pe. and po. as blebs and small, streaky to embayed, ragged aggregates, relatively common in magnetite-rich sections; puggy clayey crush zone, possibly a shear, from 391.25-391.55m; minor fibrous serpentine-magnetite as coatings on joints.
East_Av	A208	393.45	393.95	Csu	LOSS		N5		NR			Very soft to moderately hard, broken, fragmented, black, very fine-grained serpentinite, with very soft, puggy clay zones; crush zone, possibly small fault; loose fibres of serpentine-tremolite in puggy clay.
East_Av	A208	393.95	405.7	Csu	SERP	Mg	N5	0.50	FT			Fresh, moderately hard, massive, locally crudely streaked, black to darkest steel grey, fine-grained serpentinite; common 20-25% magnetite as streaks, aggregates and interstitial, locally semi-massive; crude, discontinuous compositional banding and streaking; sparse to minor 0.5-1% pe. and po. as blebs and small, ragged, embayed aggregates; minor fibrous serpentine-magnetite on joint planes; puggy clay shear over 20 cm at down hole contact.
East_Av	A208	405.7	417.85	Csu	SKSP	DiMg	N2	1.00	DF			Fresh, hard to very hard, dense, massive to micro-fractured, tending to streaked, mottled, light to mid grey, cream-grey, fine to coarse-grained, crystalline diopside-tremolite-magnetite skarn dominant; common massive patches of black serpentine-tremolite-magnetite skarn; common 20-25% fine-grained magnetite interstitial and as aggregates, locally semi-massive; sparse to minor pe. and po. as blebs and ragged aggregates, concentrated in magnetite-rich patches; locally semi-massive sulphides as from 412.05-412.45m.
East_Av	A208	417.85	431.8	Csu	SERP	MgDi	N5	2.00	SI			Fresh, hard to moderately hard, massive, micro-fractured, black, darkest brown, locally steel grey, very fine-grained serpentinite dominant; common cream, crystalline to granular, diopside-tremolite aggregates and patches; common 20-25% magnetite interstitial and as streaky aggregates; sparse to minor pe. and po. as blebs and ragged aggregates; minor cream-white ?magnesite as veins and coatings on joints.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A208	431.8	432.25		FALT		G6	0.00	SP	FT	55	Soft to very soft, fractured, sheared, tending to puggy, darkest green, altered serpentinite breccia; fault infill.
East_Av	A208	432.25	439.8	Csu	SERP	Mg	G6	0.50	BR			Fresh, hard to moderately hard, massive, micro-fractured, darkest green to black-green, very fine-grained serpentinite; common 15-20% magnetite interstitial and as streaky aggregates, gradually decreasing down hole; minor translucent apple green serpentine veins and irregular patches; trace po. and pe. as blebs and very small clots; sparse waxy to fibrous serpentine coating fractures.
East_Av	A208	439.8	441.1		FALT	Sc	N3	0.00	SP	FT	32	Soft to very soft, fractured, sheared, in places puggy to clayey, mid grey to very dark green, altered serpentinite, with common fibrous serpentine-chrysotile infilling small shears and veins; significant core loss zone.
East_Av	A208	441.1	445.8	Csu	SERP	Mg	N5	0.00	SP			Fresh, moderately hard, massive, veined, darkest black-grey to black-green, fine to very fine-grained serpentinite; common 12-15% magnetite interstitial and as streaky aggregates; sparse white serpentine-chrysotile veins and veinlets gradually increasing down hole; sparse fibrous chrysotile coating joints.
East_Av	A208	445.8	446.2		FALT	Sc	G5	0.00	FR	FT	45	Very soft, fractured, veined, sheared, tending to puggy, dark green, serpentinite breccia; common fibrous chrysotile veins and veinlets; fault infill; strongly cross-cutting up hole contact at 85 degrees to core axis.
East_Av	A208	446.2	449.3	Csu	SERP	MgSc	G6	0.10	BR			Fresh, moderately hard, massive, black to darkest black-green, very fine-grained serpentinite; common 15-20% magnetite interstitial and as small blebs and aggregates; sparse white serpentine-chrysotile veinlets and as waxy to fibrous coatings on joints.
East_Av	A208	449.3	450.0		FALT	Sc	G5	0.00	SI	FT	75	Soft to very soft, fractured, veined, sheared, tending to puggy, dark green, serpentinite breccia; common fibrous chrysotile veins and veinlets; fault infill.
East_Av	A208	450.0	478.65	Csu	SERP	MgDi	N5	0.30	SI			Fresh, moderately hard, massive, rarely veined, darkest black-grey to black-green, fine to very fine-grained serpentinite dominant; increasing patches of grey, mottled cream to green, fine to coarse-grained, diopside-tremolite-actinolite-magnetite skarn from 468.1m; common 15-20% magnetite interstitial and as streaky aggregates; sparse to locally minor pe. and po. as blebs and aggregates.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A208	478.65	483.3	Csu	SKSP	DiMgAc	N1	1.00	DF			Fresh, hard to very hard, dense, micro-fractured, spotted, light to mid grey, cream-grey, speckled black, fine to coarse-grained, partly crystalline, diopside-tremolite-minor magnetite skarn; irregular crude bands and patches of serpentine, with common interstitial magnetite; overall magnetite estimated at 10-12%; sparse pe. and po. as blebs and small ragged aggregates; few stylolitic fractures.
East_Av	A208	483.3	503.0	Csu	SERP	Mg	G6	0.10	SI			Fresh, moderately hard, massive, locally veined, darkest green to black-green, ultra fine-grained serpentinite; abundant 30-40% magnetite interstitial and as ragged aggregates; rare trace po. and pe. as blebs; trace to sparse white veinlets of carbonate-chrysotile, with scheelite detected under SWL UV.
East_Av	A208	503.0	521.05	Csu	SKSP	DiMg	N3	1.00	SI			Fresh, hard to very hard, dense, micro-fractured, light to mid grey, cream-grey, mottled black, coarse-grained, partly crystalline, diopside-tremolite-magnetite skarn dominant; common intermixed patches and massive zones of black fine-grained magnetite-rich serpentinite; common to locally abundant magnetite interstitial and as streaky aggregates, in places semi-massive; overall magnetite content estimated at 25-30%; sparse pe. and po. as blebs and small ragged aggregates, concentrated in magnetite-rich zones; trace chrysotile veinlets.
East_Av	A208	521.05	532.75	Csu	SERP	MgPo	N6	3.00	SI			Fresh, moderately hard, massive, black, darkest green, locally mottled grey-black, ultra fine-grained serpentinite; abundant 25-30% magnetite interstitial and as ragged aggregates and streaks; conspicuous minor po. and pe. as blebs and multi-phase aggregates, concentrated near start of interval in magnetite-rich serpentinite; minor grey diopside skarn patches intermixed in places.
East_Av	A208	532.75	534.1	Csu	SKSP	DiAcMg	G4	0.20	DF			Fresh, hard to moderately hard, broken, micro-fractured, mottled, cream, grey to dark blue-green, coarse-grained, partly crystalline, diopside-tremolite-minor magnetite skarn; common actinolite-tremolite as felted crystal aggregates forming skarn groundmass; minor 5-10% magnetite interstitial and as aggregates; trace po. and pe. as blebs and clots; minor waxy to fibrous serpentine as coatings on joint planes.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A208	534.1	541.1	Csu	SERP	Mg	N6	0.50	DF			Fresh, moderately hard, massive, black to darkest green, ultra fine-grained serpentinite; common 20-25% magnetite interstitial and as ragged aggregates and streaks; sparse po. and pe. as blebs and multi-phase aggregates, strongly associated with magnetite-rich serpentinite.
East_Av	A208	541.1	549.8	Csu	SKSP	DiAcMg	N2	0.20	FT			Fresh, hard to moderately hard, micro-fractured, light to mid grey, cream-grey, mottled black, coarse-grained, partly crystalline, diopside-tremolite-magnetite skarn dominant; common intermixed patches and massive zones of black fine-grained magnetite-rich serpentinite; minor magnetite interstitial and as streaky aggregates and veins; trace po. and pe. as blebs; grey puggy clay shears from 544.55-544.75m and 549.5-549.6m; possibly faulted contact.
East_Av	A208	549.8	579.5	Csu	SERP	Mg	N6	0.30	DF			Fresh, moderately hard, massive, darkest green, black-green to grey-black, fine to very fine-grained serpentinite; common 10-15% magnetite interstitial and as ragged streaks; trace po. and pe. as blebs and small aggregates; weakly to locally strongly magnetic core; few puggy clay shears, as at 556.75-557.0m; trace bright bronze, sheared po. as coatings on fractures from 577.1-578.9m.
East_Av	A208	579.5	586.1	Csu	SKSP	DiSpMg	N4	0.30	SI			Fresh, hard to moderately hard, micro-fractured, light to mid grey, cream-grey, mottled black to grey, fine to medium-grained, partly crystalline, diopside-tremolite-magnetite skarn dominant; common intermixed patches of black fine-grained magnetite-rich serpentinite; minor magnetite interstitial and as streaky aggregates and veins; trace po. and pe. as blebs; minor green actinolite-tremolite groundmass in skarn.
East_Av	A208	586.1	588.8	Csu	SERP	MgDi	N6	0.20	DF			Fresh, moderately hard, massive, black to darkest green-black, very fine-grained serpentinite; common 15-20% magnetite interstitial and as ragged aggregates; rare trace po. and pe. as blebs; fractured, tending to vughy at contact.
East_Av	A208	588.80	593.00	Csu	SKSP	DiAcQz	G2	0.30				Fresh, hard to moderately hard, veined, massive, light grey, apple green, mottled grey-black, fine to medium-grained, diopside-tremolite-quartz skarn; minor apple green ?chrome diopside as aggregates and staining; rare trace po. as blebs. EOH at 593.0m confirmed.

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
East_Avet	A208	380.5	381.5	1.03				700	480	1.5	34.4	11.1		Csu	SERP
East_Avet	A208	381.5	382.5	1.24				1250	760	2.3	34.9	11.7		Csu	SERP
East_Avet	A208	382.5	383.5	0.56				250	300	1.2	38.3	11.3		Csu	SERP
East_Avet	A208	383.5	384.5	1.56				250	700	4.6	33.2	22.7		Csu	SERP
East_Avet	A208	384.5	385.5	0.87				2150	420	2.0	36.3	18.3		Csu	SERP
East_Avet	A208	385.5	386.5	0.57				3950	1640	1.2	40.4	11.9		Csu	SERP
East_Avet	A208	386.5	387.5	0.37				400	160	0.9	42.1	9.7		Csu	SERP
East_Avet	A208	387.5	388.5	0.46				250	280	0.9	41.9	12.3		Csu	SERP
East_Avet	A208	388.5	389.5	0.42				100	200	0.5	43.6	9.8		Csu	SERP
East_Avet	A208	389.5	390.5	0.30				50	120	0.4	44.0	7.6		Csu	SERP
East_Avet	A208	390.5	391.55	0.24				50	100	0.5	44.0	7.4		Csu	SERP
East_Avet	A208	391.55	392.5	0.35				100	140	0.4	44.2	7.8		Csu	SERP
East_Avet	A208	392.5	393.45	0.25				100	120	0.3	44.0	7.8		Csu	SERP
East_Avet	A208	393.45	393.95	0.28				100	140	0.3	46.1	8.0		Csu	LOSS
East_Avet	A208	393.95	395.0	0.46				50	200	0.5	43.7	8.5		Csu	SERP
East_Avet	A208	395.0	396.0	0.27				100	120	0.4	46.9	8.6		Csu	SERP
East_Avet	A208	396.0	397.0	0.30				100	120	0.3	46.9	8.7		Csu	SERP
East_Avet	A208	397.0	398.0	0.37				100	140	0.5	45.6	10.6		Csu	SERP
East_Avet	A208	398.0	399.0	0.31				50	140	0.4	45.2	12.2		Csu	SERP
East_Avet	A208	399.0	400.0	0.31				50	120	0.4	46.6	9.6		Csu	SERP
East_Avet	A208	400.0	401.0	0.30				50	120	0.3	46.4	9.4		Csu	SERP
East_Avet	A208	401.0	402.0	0.75				100	240	0.9	45.3	10.0		Csu	SERP
East_Avet	A208	402.0	403.0	0.63				100	200	0.8	46.5	9.8		Csu	SERP
East_Avet	A208	403.0	404.0	0.83				100	260	1.0	45.4	10.6		Csu	SERP
East_Avet	A208	404.0	405.0	0.72				50	220	1.0	44.4	12.0		Csu	SERP
East_Avet	A208	405.0	405.7	0.69				100	200	0.9	42.7	11.3		Csu	SERP
East_Avet	A208	405.7	406.7	0.22				100	60	0.2	28.2	10.3		Csu	SKSP
East_Avet	A208	406.7	407.7	0.85				100	280	1.2	35.6	15.0		Csu	SKSP
East_Avet	A208	407.7	408.7	0.25				100	80	0.3	31.3	11.4		Csu	SKSP
East_Avet	A208	408.7	409.7	0.24				100	100	0.2	38.1	12.4		Csu	SKSP
East_Avet	A208	409.7	410.7	0.11				50	-20	-0.10	30.4	5.6		Csu	SKSP
East_Avet	A208	410.7	411.7	0.12				50	40	-0.10	35.0	8.7		Csu	SKSP

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A211	0.0	2.0	Oc	LOSS				NR			No core recovery; surficial overburden zone, drilled with HQ2 reamed to PQ for installation of collar pipe; base of complete oxidation at 2.0m.
East_Av	A211	2.0	19.6	Oc	CONG		O3	0.00	NR			Strongly to moderately weathered, partially oxidised, broken to very broken, in places clayey, fragmented, medium orange, orange-brown to grey-green, coarse-grained, matrix-supported, polymictic granule to pebble conglomerate; sub-angular to well rounded, lithic clasts generally 20-30mm in diameter, gradually coarsening with depth to 50-60mm; abundant silt to sand-grade matrix, frequently oxidised to orange clay; no bedding structures preserved; common orange-brown, ferruginous clay coating joint and fracture planes; down hole contact not recovered.
East_Av	A211	19.6	26.5	Oc	CLAY		B2	0.00	NR	BD	50	Extremely weathered, partially oxidised, very broken to totally fragmented, puggy to crumbly, mid brown-tan, orange-brown to fawn-cream, weakly ferruginous clay; minor weathered, very soft, cream shale bands and rare conglomerate lenses; planar bedding laminae locally preserved in shale; sparse Fe and Mn oxides as thin coatings on joints and fractures; depth of down hole contact uncertain due to core loss.
East_Av	A211	26.5	28.2	Oc	CONG		O4	0.00	NR			Moderately to strongly weathered, partially oxidised, very broken to totally fragmented, mid to dark orange, buff-brown, coarse-grained, matrix-supported, polymictic pebble conglomerate; sub-rounded to well rounded, lithic clasts to 35mm in length; abundant silty to sandy matrix, oxidised to orange clay; no bedding structures preserved; common brown Fe and Mn oxides on fractures.
East_Av	A211	28.2	32.7	Oc	CONG	Si	N1	0.00	NR			Weakly weathered, partially oxidised, very hard, broken, micro-fractured, light grey, brown-grey, weathered to orange, very coarse-grained, matrix-supported, siliceous, polymictic pebble conglomerate; angular to sub-rounded, lithic clasts to 40-50mm in diameter, locally close-packed; indurated, strongly silicified; minor soft, weakly ferruginous clay on fractures and staining; no bedding preserved.
East_Av	A211	32.7	37.6	Oc	CLAY		B2	0.00	NR			Very strongly weathered, partially oxidised, very soft, broken to totally fragmented, crumbly to puggy, mid brown, orange-brown to cream, weakly ferruginous clay; minor weathered, very soft, cream shale bands and rare conglomerate; minor black Fe and Mn oxides coating joints and fractures.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A211	37.6	39.4	Os	LOSS		O3	0.00	NR			Extremely weathered, oxidised, very soft, puggy, mid orange-brown to yellow, weakly ferruginous clay; core loss zones noted by driller; stratigraphy and depth limits uncertain.
East_Av	A211	39.4	49.8	Os	SSLT	Si	B2	0.00	NR	BD	30	Moderately weathered to relatively fresh, soft to very soft, hard in patches, broken, fractured, in places bedded, light to mid brown, orange-brown, light grey-white, very fine-grained, siliceous siltstone; disrupted, contorted to planar bedding preserved in places, gradually steepening with depth to 25 degrees to core axis; tending to cherty siltstone, possibly after carbonate, in places; very soft, crumbly to puggy clay patches; minor brown Fe oxides infilling micro-fractures and as dendritic growths; very soft, intact, puggy clay zone at contact.
East_Av	A211	49.8	51.9	Os	LOSS		O2	0.00	DF			Extremely weathered, oxidised, very soft, puggy, light to mid orange-brown, mottled cream, weakly ferruginous clay; probably after siltstone; major core loss apparent; depth limits uncertain; gradational contact into fresher rock.
East_Av	A211	51.9	57.8	Os	SSLT		Y2	0.00	BR	BD	2	Moderately to strongly weathered, partially oxidised, soft, clayey, light to mid yellow, yellow-brown, orange-brown, fine-grained siltstone; bedding well preserved throughout, contorted to disrupted, sub-parallel to core axis; structurally deformed; rare patches of relatively fresh, mottled grey shale-siltstone; major core loss near start; more intensely clay altered and decomposed at down hole contact.
East_Av	A211	57.8	58.4		FALT		O3	0.00	DF			Extremely weathered, oxidised, very soft, damp, puggy, mid orange-brown clay; major core loss apparent; possible fault contact between Oc-Os and Cambrian sequences; diffuse, gradational contact into relatively fresher, more intact rock.
East_Av	A211	58.4	61.8	Cba	VBVF	Ac	G4	0.00	NR			Moderately to strongly weathered, partially oxidised, hard, structurally deformed, mid to dark green, mottled cream and orange-brown, fine-grained, weakly actinolitised volcanoclastic; disturbed, disrupted to fragmented throughout; common orange ferruginous clay staining and partially replacing, increasing down hole; becoming broken, increasingly decomposed; sparse Fe and Mn oxides as thin coatings on joints and infilling fractures.
East_Av	A211	61.8	67.6	Cba	LOSS		O3	0.00	NR			Extremely weathered, oxidised, very soft, damp, puggy to crumbly, mid orange to orange-brown, ferruginous clay; major core loss zone; possible fault.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A211	67.6	68.5	Cba	CLAY		B2	0.00	DF			Very strongly weathered, oxidised, soft to very soft, light to mid brown, orange-brown, mottled, weakly ferruginous clay; after Cba volcanoclastics or possibly fault fill; remnant structural deformation, possibly breccia textures, poorly preserved in clay; micro-fractured in places.
East_Av	A211	68.5	70.15	Cba	VBLF	DiAc	G5	0.00	DF			Weakly weathered to fresh, altered, veined, disrupted, mid to dark green, mottled cream, fine-grained volcanoclastics; strong pervasive actinolite alteration of fine-grained silty matrix; common cream-white diopside veins and stringers; no obvious bedding structures preserved; structurally deformed throughout; soft, broken, clayey fractures near down hole contact.
East_Av	A211	70.15	72.6	Cba	SSLT	Cb	N2	0.00	NR	BD	35	Fresh, locally weakly oxidised, hard, laminated, light to mid grey, fine-grained, weakly calcareous, sandy siltstone; very thin grey-black carbonaceous laminae; bedding planar to disrupted; sandy interbeds locally lobate; minor Fe oxides staining at start and end of interval; down hole contact not recovered in core.
East_Av	A211	72.6	73.6		LOSS				NR			Near total core loss; very soft, unconsolidated, dark brown clay sludge recovered.
East_Av	A211	73.6	77.7	Cba	SSLT	Cb	B4	0.00	DF	BD	35	Strongly weathered, oxidised, in places relatively fresh, soft, clayey, mid to dark brown, orange-brown, laminated, weakly calcareous, sandy siltstone; similar to rock type from 70.15-72.6m, but more oxidised; well bedded, with planar to disturbed laminae; locally lobate sandy interbeds; common clay and Fe oxides as staining and partially to completely replacing; increase in oxidation at diffuse down hole contact.
East_Av	A211	77.7	79.6	Cba	SSLT		B5	0.00	NR	BD	30	Extremely weathered, near completely oxidised, soft, clayey, banded, dark to very dark brown, orange-brown to green-grey, Fe oxide-quartz-actinolite rock, after calcareous siltstone or possibly skarn; remnant planar bedding laminae preserved in clay and Fe oxides; increasing quartz-actinolite-talc near down hole contact, probably decomposed calc-silicate skarn; contact not recovered.
East_Av	A211	79.6	81.7		LOSS		B6	0.00	NR			Extremely weathered, completely oxidised, soft, unconsolidated, darkest brown, Fe oxide sludge; near total core loss zone.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A211	81.7	92.0	Ccarb	SKRN		G4	0.00	SI	BN	28	Extremely weathered, near completely oxidised, soft, initially clayey, banded, darkest brown, black, orange-brown, mottled grey, Fe oxide-quartz-actinolite rock, after calc-silicate skarn; strong remnant banding, possibly after bedding laminae, preserved in clay and Fe oxides; increasingly quartz-rich from 87.1m, with large intersecting needles of Fe oxides, possibly after actinolite; vughy in patches, with botryoidal Fe oxides; sharp irregular alteration contact.
East_Av	A211	92.0	101.4	Ccarb	SKRN	AcDiHt	G2	0.00	BR	BN	25	Fresh, hard to very hard, disrupted, banded, light to medium green, mottled cream, grey, dark green, fine to coarse-grained, complex calc-silicate skarn; dominantly actinolite-diopside-chlorite, with bands and patches of pale cream-brown garnet near start of interval and possible epidote; minor calcite interstitial; sparse specular hematite, partly altered to red hematite staining near start; becoming disrupted, turbiditic, shaley from 99.3m; very broken from 100.9m.
East_Av	A211	101.4	102.1		LOSS		B2	0.00	SP	SH	60	Soft to very soft, puggy, light to mid brown clay; major core loss zone; some sheared rock and clay at down hole contact; possible fault zone.
East_Av	A211	102.1	103.85	Cba	SKRN	AcCh	C2	0.00	GD	BD	50	Fresh, hard to very hard, disrupted, streaked to banded, light cream, fawn, mottled dark green, fine-grained, volcanoclastic shale, with common actinolite-chlorite skarn overprint; disturbed, contorted to planar bedding; thin clayey shear from 103.0-103.1m; gradational lithological and alteration contact.
East_Av	A211	103.85	123.7	Cba	VBLB	AcCh	G5	0.00	DF			Fresh, hard, massive, dark to very dark green, locally spotted to streaked cream, fine to very fine-grained, silt-grade, vitric volcanoclastics; strong pervasive actinolite alteration throughout; weak dark green actinolite-chlorite-?schorl skarn overprint in irregular patches; trace calcite veinlets; indistinctly bedded throughout; disrupted to fragmented textures in patches; possible basaltic flow or hyaloclastite from 120.6m, with intense dark green actinolite alteration.
East_Av	A211	123.7	125.4	Cba	SKRN	AxAc	G4	0.00	BR	BD	45	Fresh, hard, tending to leached, vughy, micro-fractured, mid to dark green, cream to light tan-fawn, coarse-grained, crystalline actinolite-axinite-epidote skarn, with increasing disrupted, micro-faulted to brecciated volcanoclastic shale; remnant bedding in places in shaley sub-units; becoming very broken to fragmented.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A211	125.4	126.5		FALT		G2	0.00	FT	FT	40	Partially oxidised, hard, very broken, sheared, veined, mid green, brown-fawn, siltstone-breccia; moderately actinolitised; minor cream-white calcite veinlets and stringers; fragmented core in places; 0.5m core loss recorded by driller.
East_Av	A211	126.5	138.0	Cba	VBVF	AcPh	G4	0.00	SP	BD	33	Fresh, hard to very hard, streaked, disrupted to fragmented, medium to dark green, mottled cream, altered, very fine-grained shaley volcanics dominant; lesser lenses of purplish-brown, fine-grained, phlogopitised siltstone to wacke; minor dark green, finely speckled cream, altered basaltic flows or possible minor intrusives; strong pervasive actinolite alteration throughout; disturbed, contorted bedding preserved in places; sparse orange-brown Fe oxides as coatings on joint planes and fractures.
East_Av	A211	138.0	138.4		FALT	Qz	N2		SI	FT	42	Weakly oxidised, hard to very hard, veined, mid grey to white, quartz breccia; common quartz patches and as contorted veins; minor siltstone breccia; minor soft, ferruginous clay infilling small shears and coating fracture planes.
East_Av	A211	138.4	164.7	Cba	SSLT	Ph	N4	0.10	SI	BD	25	Fresh, hard to very hard, broken, disturbed, disrupted to locally laminated, dark grey, black-grey, in places brown, fine to very fine-grained, siltstone-shale; minor lenses of dark brown to purplish-brown, quartz-rich siltstone to wacke; rare streaky to fragmented interbeds of green volcanoclastic siltstone; disturbed, locally fragmented bedding preserved in places; minor quartz as crack-seal and sparse laminated veins and stringers, frequent from 151.9m and up to 5cm thick; rare trace po. as small aggregates; rare trace py. associated with chlorite in quartz veins; gradual increase in actinolitised volcanics from 160.7m.
East_Av	A211	164.7	165.9	Cba	LBPF	AcCh	G5	0.00	SI			Fresh, hard, broken, massive, very dark green, fine-grained, actinolitised basaltic extrusive or minor intrusion; strong pervasive actinolite-chlorite alteration; possible fault at up hole contact, infilled with 5cm thick laminated quartz-shale vein.
East_Av	A211	165.9	175.7	Cba	SKRN	AcDiQz	G3	0.00	DF			Fresh, hard, massive, speckled to very crudely banded, mottled, mid to dark green, cream, blue-green, coarse-grained, actinolite-diopside-quartz skarn, probably after basaltic volcanic or micro-gabbro; minor patches of dark green-blue, fine-grained, altered ?basalt; minor yellow-brown garnet-epidote aggregates.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A211	175.7	177.1	Cba	SKRN	DiMg	N3	0.00	DF			Fresh, hard to moderately hard, micro-faulted, mottled, mid cream, cream-grey, streaked black, medium-grained, diopside-magnetite skarn; trace green-yellow ?garnet-epidote clusters and aggregates in places; 15-20% magnetite interstitial and as fine-grained stringers, streaks and crude bands; gradational contact.
East_Av	A211	177.1	179.8	Cba	SKRN	AcCh	G4	0.00	SI			Fresh, hard to moderately hard, massive, dark to very dark green, mottled cream and light green, fine to coarse-grained, actinolite-chlorite-diopside skarn, after fine-grained basaltic volcanics or minor intrusive; cloudy patches of diopside-rich skarn; minor yellow-brown ?garnet-epidote clots and aggregates; crude contorted bands; sharp cross-cutting down hole contact.
East_Av	A211	179.8	182.2	Cba	SHAL	PhAc	B5	0.00	SP			Fresh, very hard, indurated, cherty, disrupted, very dark brown to dark green, very fine-grained shaley volcanoclastic; lesser dark green, actinolitised silt-grade volcanoclastic lenses; disturbed to fragmented throughout; moderately altered, phlogopitised, with sparse diopside-actinolite skarn overprint in places.
East_Av	A211	182.2	189.0	Cba	LBPF	AcDi	G5	0.00	SI	BN	45	Fresh, hard, in places relatively soft, massive, spotted to locally crudely streaked to banded, very dark green, blue-green, mottled cream to grey, fine-grained, basaltic volcanics or minor intrusive; common patches of diopside-actinolite skarn overprint, with minor green to yellow-brown ?garnet-epidote as clots and partly crystalline aggregates; sparse 2-5% magnetite interstitial in skarn patches; trace calcite veinlets; sparse grey-mauve ?sphene as subhedral clots in dark green basaltic volcanics; ?fault/shear at down hole contact, at 20 degrees to CA.
East_Av	A211	189.0	209.2	Cba	SKRN	Di	G2	0.10	SI			Fresh, hard to moderately hard, massive, in places stylolitic, light green, cream-green, fine-grained, diopside-tremolite skarn, possibly after ultramafic; sparse bright emerald green mineral, possibly chrome diopside, as small crystals disseminated in skarn groundmass; sparse 1-2% magnetite in stylolites and rarely interstitial; sparse black-brown opaque mineral as blebs; trace yellow-brown ?chrome garnet or andradite as partly crystalline clots and aggregates.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A211	209.2	211.1		FALT	DiCb	C2	0.00	SI			Fresh, moderately hard, crystalline, locally stylolitic, mottled, cream-white, light green to grey, very coarse-grained, complex diopside-tremolite-carbonate skarn; becoming brecciated, with minor magnetite interstitial and in stylolites; minor very coarsely crystalline, white carbonate and colourless fluorite intergrowths; trace honey brown ?garnet aggregates; minor emerald green ?chrome diopside clots and aggregates; sparse mid brown, sub-metallic mineral, ?wolframite, as large aggregates; complex vein infilling possible fault; sheared at contact.
East_Av	A211	211.1	215.75	Cba	SKRN	AcDi	G2	0.00	SI			Fresh, hard to moderately hard, initially sheared, becoming streaked to crudely banded, mottled, light to mid green, cream-green, fine to coarse-grained, diopside-tremolite skarn, probably after basic volcanoclastics or extrusive; minor dark grey, green-grey, very fine-grained, altered, volcanoclastic siltstone intermixed at start and end of interval; minor yellow-green epidote-?garnet aggregates and streaks; possible remnant bedding.
East_Av	A211	215.75	268.2	Cba	SKRN	Di	G1	0.00	BR			Fresh, hard to very hard, massive, cloudy to streaked, in places stylolitic, lightest green, cream-green, fine-grained, diopside-tremolite skarn; sparse bright emerald green mineral, possibly chrome diopside, as small crystals disseminated in skarn groundmass; trace 0.3-0.5% magnetite in stylolites and rarely interstitial; sparse black-brown opaque mineral, ?chromite, as blebs; sparse yellow-brown ?chrome garnet or andradite as partly crystalline clots and aggregates; sparse quartz as scattered intergrowths and rarely replacing, possibly veining; skarn grain size gradually coarsening down hole; trace black schorl as streaks and aggregates near down hole contact; broken at contact, with diffuse alteration change.
East_Av	A211	268.2	322.9	Cba	CONG	Ac	G4	0.00	SI	BD	42	Fresh, hard to very hard, massive, rarely bedded, mid to dark green, in patches light cream to green, weakly altered, very coarse-grained, matrix-supported, polymictic, volcanogenic conglomerate; minor patches of weak diopside-epidote skarn overprint; semi-pervasive actinolite-chlorite alteration of matrix; rare planar bedding preserved in sandy lenses; angular to sub-rounded lithic clasts ranging up to 100 mm in diameter; trace red-brown garnet clots near down hole contact.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A211	322.9	338.05	Cba	SKRN	DiMg	N2	0.50	DF			Fresh, hard to moderately hard, massive, micro-fractured, stylolitic, mottled, light cream, mid grey to grey-black, fine to medium-grained, diopside-tremolite skarn; minor light green-cream diopside-serpentine patches near start of interval; common 20-25% magnetite interstitial, as aggregates and infilling stylolites; trace pe. and po. as minute specks and blebs, associated exclusively with magnetite stringers; diffuse, gradational alteration contact.
East_Av	A211	338.05	340.55	Cba	SKRN	AcDi	G4	0.00	VN	BN	65	Fresh, moderately hard, veined, streaked, mottled, mid to dark green, cream, grey to blue-grey, strongly altered, fine-grained actinolite-diopside-chlorite skarn, probably after silt-grade volcanoclastics; strong pervasive actinolite-tremolite alteration throughout, with diopside veins and stringers overprinting; minor talc-chlorite patches; trace epidote aggregates; increasingly veined at contact.
East_Av	A211	340.55	352.7	Cba	SSLT	AcChDi	N4	0.10	NR	BD	53	Fresh, alternating relatively soft to moderately hard, massive, locally veined, dark to very dark grey, green-grey, strongly altered, fine-grained volcanoclastic siltstone; strong pervasive actinolite-chlorite alteration throughout; minor cream to cream-grey diopside as streaks, veins and locally semi-pervasive; weak to moderate skarn overprint; planar bedding laminae locally preserved; becoming increasingly veined from 350.5m; broken at down hole contact.
East_Av	A211	352.7	354.1	Cba	SKRN	DiAc	G2	0.00	NR			Fresh, moderately hard, very broken, veined, dark to very dark green, mottled cream-green, strongly altered, diopside-actinolite-chlorite skarn, after mafic volcanoclastics; strong pervasive actinolite-chlorite alteration; common diopside-tremolite veins and stringers overprinting; broken zone, with core loss.
East_Av	A211	354.1	360.7	Cba	SKRN	AcDiMg	N4	0.00	SI			Fresh, moderately hard, initially broken, veined, micro-fractured, dark to very dark grey, black-grey to cream-grey, strongly altered, fine-grained, ultramafic-proximal, actinolite-diopside-chlorite-talc skarn; probably after mafic volcanoclastics; minor to common 10-12% magnetite interstitial and as stylolite-like veinlets; minor cream diopside veins and stringers, increasing near down hole contact; no sulphide noted; few soft clayey fractures, possibly shears.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A211	360.7	364.3	Csu	SKSP	DiMg	N3	0.10	DF			Fresh, hard, massive, micro-fractured, mid-grey, cream, locally black, fine to medium-grained, diopside-magnetite-minor actinolite-talc skarn, probably after ultramafic; common 25-30% fine-grained magnetite interstitial, infilling fine micro-fractures and as stringers and streaks; no sulphide mineralisation noted.
East_Av	A211	364.3	379.35	Csu	SERP	MgDi	N6	0.30	DF			Fresh, moderately hard, massive, black, darkest green-black, very fine-grained serpentinite; minor, gradually increasing, cream to grey-cream, partly crystalline diopside as patches, vein-like streaks and aggregates; common 20-25% fine-grained magnetite interstitial, aggregates and streaks; trace pe. + po. as blebs; sparse white fibrous serpentine-chrysotile as coatings on fractures.
East_Av	A211	379.35	383.95	Csu	SKSP	DiMg	N2	0.20	NR			Fresh, hard to very hard, veined, micro-fractured to massive, light to mid grey, green-grey, mottled cream, fine to coarse-grained, diopside-actinolite-magnetite skarn; patches of strong pervasive actinolite alteration, replacing fine-grained possible mafic sub-unit near middle of interval; minor to common 10-12% fine-grained magnetite interstitial and as intersecting veinlets; rare trace po. + pe. as small blebs.
East_Av	A211	383.95	385.75	Csu	LOSS		N5	0.00	NR			Very soft, crumbly to puggy, dark grey clay, with fragmented, darkest grey to black, fine-grained serpentinite; core loss zone; 0.7m total core loss recorded.
East_Av	A211	385.75	392.1	Csu	SERP	Mg	N6	0.30	BR			Fresh, moderately hard, massive, black to darkest green-black, very fine-grained serpentinite; common 15-20% fine-grained magnetite interstitial and as streaks and ragged aggregates; trace pe. + po. as small blebs; few puggy grey clay zones, possibly thin shears; becoming very broken, sheared from 391.8m.
East_Av	A211	392.1	392.7		FALT		G5	0.00	SP			Very soft, crumbly on drying, dark green, serpentinite breccia; few very soft, clayey serpentine coating shear planes; weakly magnetic core.
East_Av	A211	392.7	409.3	Csu	SERP	Mg	N6	0.20	BR			Fresh, relatively soft, broken, massive, black to very darkest green-black, very fine-grained serpentinite; common 12-15% fine-grained magnetite interstitial and as ragged aggregates; rare trace pe. + po. as small ragged clots; few puggy serpentinite breccia zones, infilling thin shears; sparse grey-white chrysotile as fibrous coatings on joint and fracture surfaces; broken at down hole contact.

Allegiance Metals Drill Log

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A211	409.3	410.2		FALT		N4	0.00	SP	FT	72	<p>Very soft, puggy clay-matrixed breccia and shear infill; few pieces of black-grey, very fine-grained serpentinite; decomposed serpentinite breccia infilling fault zone. Fresh, moderately hard, initially broken, becoming massive, black, very fine-grained serpentinite; common 25-30% fine-grained magnetite interstitial and as large aggregates; sparse to minor pe. and po. as blebs and multi-phase clots and aggregates, with possible trace niccolite as blebs in ?melnikovite groundmass; trace cream diopside-serpentine in irregular patches near down hole contact.</p> <p>Fresh, hard to locally very hard, micro-fractured, veined to massive, light to mid grey, rarely mottled cream, fine to coarse-grained, diopside-magnetite skarn; lesser massive, black, fine-grained serpentine-magnetite patches; common to abundant 25-30% fine-grained magnetite interstitial and as semi-massive patches and streaky aggregates; trace pe. + po. as blebs; sparse serpentine veins.</p> <p>Fresh, moderately hard, massive, black to very darkest green-black, very fine-grained serpentinite; common 20-25% fine-grained magnetite interstitial and as large ragged clots and aggregates; sparse white-grey diopside-magnetite-minor serpentine skarn as irregular patches; sparse to locally minor pe. + po. as blebs and aggregates; gradual increase in darkest green serpentinite, with irregular clots and aggregates of diopside-serpentine, down hole.</p> <p>Fresh, relatively soft, massive, very darkest green to khaki-black, ultra fine-grained serpentinite, with minor to common cream-grey to light green, serpentine-diopside as irregular blotchy patches and aggregates; common 25-30% magnetite as large ragged clots, aggregates and stringers; varying to massive, green-black, fine-grained serpentinite in places; trace to locally sparse pe. + po. as blebs and aggregates, generally associated with serpentine-diopside-magnetite aggregates; trace carbonate-chrysotile veinlets and stringers; thin ductile shear, infilled with serpentinite crush, from 534.15-534.3m; shear at 35 degrees to core axis; increasing thin veins of serpentine-magnetite towards down hole contact.</p>
East_Av	A211	410.2	413.8	Csu	SERP	Mg	N6	3.00	SP			
East_Av	A211	413.8	421.55	Csu	SKSP	DiMg	N2	0.50	SI			
East_Av	A211	421.55	465.35	Csu	SERP	MgDi	N6	1.00	DF			
East_Av	A211	465.35	538.1	Csu	SERP	MgDi	G6	0.20	SI			

Allegiance Metals Drill Log

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A211	538.1	543.15	Csu	SERP	Mg	G5	0.20	DF			Fresh, relatively soft, fractured to massive, very dark green to black-green, ultra fine-grained serpentinite, with minor to common translucent, waxy, green to yellow-green serpentine veins and irregular patches; common 20-25% magnetite interstitial and increasingly as millimetric veinlets; strong throughgoing fractures, at 10 degrees to core axis, with fibrous chrysotile-serpentine coatings; trace po. + pe. as blebs and minute specks.
East_Av	A211	543.15	558.7	Csu	SERP	Mg	G6	0.50	SI			Fresh, moderately hard, massive, becoming very finely micro-fractured, darkest dull green to khaki-green, very fine-grained serpentinite; common 15-20% fine-grained magnetite interstitial and as irregularly dispersed clots and aggregates; sparse magnetite as thin veins and veinlets; trace po. + pe. as blebs, usually associated with magnetite; sparse traslucent, waxy, green to yellow-green serpentine as irregular patches, gradually increasing down hole.
East_Av	A211	558.7	571.0	Csu	SKSP	DiSpMg	N2	0.20	FT			Fresh, hard, massive, in places very finely micro-fractured, light to mid cream, grey-cream, mottled black, fine to coarse-grained diopside-serpentine-magnetite skarn, after ultramafic; blotchy patches, some vaguely banded, of zoned, partly crystalline diopside, with fine-grained magnetite interstitial and as specks; common 15-20% magnetite as ragged aggregates and streaks; minor white serpentine-chrysotile infilling very thin, discontinuous microveins; trace po. + pe. as blebs and fine specks; trace white-cream ?magnesite as soft coatings on fractures and joints; thin shear at down hole contact, with some puggy clay.
East_Av	A211	571.0	601.6	Csu	SERP	Mg	N5	2.00				Fresh, moderately hard, massive, very dark black, brown-black to darkest green, very fine-grained serpentinite; common 20-25% fine-grained magnetite interstitial and as irregularly dispersed clots and aggregates; sparse to minor magnetite as thin veins and veinlets; sparse diopside-actinolite as irregular ragged patches, gradually increasing down hole; sparse to minor po. + pe. as blebs, clots and small aggregates; locally up to 5% sulphide over 1m intervals. EOH at 601.6m confirmed.

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
East_Avet	A211	326.0	327.0	0.05				100	-20	-0.1	12.5	6.3		Cba	SKRN
East_Avet	A211	327.0	328.0	0.06				100	20	-0.1	10.3	6.6		Cba	SKRN
East_Avet	A211	328.0	329.0	0.08				100	-20	-0.1	11.1	5.7		Cba	SKRN
East_Avet	A211	329.0	330.0	0.11				50	60	-0.1	10.6	6.6		Cba	SKRN
East_Avet	A211	330.0	331.0	0.16				100	60	-0.1	12.9	5.9		Cba	SKRN
East_Avet	A211	331.0	332.0	0.09				100	20	-0.1	11.7	5.4		Cba	SKRN
East_Avet	A211	332.0	333.0	0.09				50	40	-0.1	11.7	5.4		Cba	SKRN
East_Avet	A211	333.0	334.0	0.12				100	40	-0.1	11.9	5.7		Cba	SKRN
East_Avet	A211	334.0	335.0	0.19				100	120	0.1	14.2	7.6		Cba	SKRN
East_Avet	A211	335.0	336.0	0.08				100	20	-0.1	14.0	7.9		Cba	SKRN
East_Avet	A211	336.0	337.0	0.07				100	20	0.1	13.5	6.4		Cba	SKRN
East_Avet	A211	337.0	338.05	0.15				100	100	0.3	14.8	8.3		Cba	SKRN
East_Avet	A211	338.05	339.0	0.12				50	80	-0.1	14.3	7.1		Cba	SKRN
East_Avet	A211	339.0	340.0	0.09				50	60	-0.1	12.6	7.1		Cba	SKRN
East_Avet	A211	340.0	340.55	0.09				100	80	-0.1	12.3	9.3		Cba	SKRN
East_Avet	A211	340.55	341.5	0.17				50	60	-0.1	15.9	8.2		Cba	SSLT
East_Avet	A211	341.5	342.5	0.13				50	80	-0.1	16.3	9.6		Cba	SSLT
East_Avet	A211	354.1	355.0	0.10				50	80	-0.1	17.3	7.9		Cba	SKRN
East_Avet	A211	355.0	356.0	0.12				50	60	-0.1	18.2	6.9		Cba	SKRN
East_Avet	A211	356.0	357.0	0.19				100	80	-0.1	23.7	9.0		Cba	SKRN
East_Avet	A211	357.0	358.0	0.19				100	80	-0.1	26.2	8.0		Cba	SKRN
East_Avet	A211	358.0	359.0	0.14				100	20	-0.1	21.9	5.5		Cba	SKRN
East_Avet	A211	359.0	360.0	0.11				100	40	-0.1	19.3	6.1		Cba	SKRN
East_Avet	A211	360.0	360.7	0.12				100	80	-0.1	18.4	8.7		Cba	SKRN
East_Avet	A211	360.7	361.7	0.30				650	200	-0.1	18.0	21.4		Csu	SKSP
East_Avet	A211	361.7	362.7	0.14				200	180	-0.1	21.1	22.6		Csu	SKSP
East_Avet	A211	362.7	363.7	0.10				200	120	-0.1	21.2	15.6		Csu	SKSP
East_Avet	A211	363.7	364.3	0.23				500	120	-0.1	38.7	9.2		Csu	SKSP
East_Avet	A211	364.3	365.0	0.25				600	120	-0.1	47.5	5.6		Csu	SERP
East_Avet	A211	365.0	366.0	0.26				100	60	-0.1	41.6	4.6		Csu	SERP
East_Avet	A211	366.0	367.0	0.27				100	60	-0.1	44.8	5.3		Csu	SERP
East_Avet	A211	367.0	368.0	0.27				100	60	-0.1	42.1	5.2		Csu	SERP
East_Avet	A211	368.0	369.0	0.24				100	40	-0.1	40.3	5.4		Csu	SERP

Allegiance Metals - Drill Log

BHID A212

Collar

Project	BHID	Easting	Northing	RL	Depth	Date	Geologist
East_Aveb	A212	356001	5357378.1	2193.2	400.2	20/08/2007	DAE

Surveys

Project	BHID	Depth	Azm_Amg	Dip
East_Aveb	A212	0.0	178.8	-45.8
East_Aveb	A212	50.0	179.0	-46.0
East_Aveb	A212	100.0	179.0	-46.0
East_Aveb	A212	150.0	179.0	-46.0
East_Aveb	A212	200.0	179.0	-46.1
East_Aveb	A212	250.0	180.0	-46.4
East_Aveb	A212	300.0	180.0	-46.9
East_Aveb	A212	350.0	180.0	-47.0
East_Aveb	A212	400.0	180.0	-46.9

Raw data (uncorrected single shot camera readings) :

East_Aveb	A212	50.0	179.2	-45.0
East_Aveb	A212			
East_Aveb	A212			
East_Aveb	A212	200.0	179.2	-46.1
East_Aveb	A212	250.0	175.2	-46.4
East_Aveb	A212	300.0	173.2	-46.9
East_Aveb	A212	350.0	174.7	-47.0
East_Aveb	A212	400.0	178.2	-46.9

Comments

A212 was drilled to test Saxon/East Avebury mineralisation at depth nominally on-section at 355100mE
The hole targeted a magnetic anomaly and an interpreted northern lobe of the East Avebury-Bison host ultramafic.

Significant Intersections

No significant intersections.

Hole Sizes

From	Size
0.0	PQ collar
2.0	HQ2
107.4	NQ2

Drilled By

Boart Longyear

Analyses By

BRL

Hole drilled with BLY LF90 rig; drilling commenced on 29/07/07; hole completed on 16/08/07; hole reamed at collar with PQ over HQ for installation of HWT casing. Gyro survey not completed.

Allegiance Metals Drill Log

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A212	0.0	2.0		LOSS				NR			No core recovery; surficial overburden zone, drilled with HQ2 reamed to PQ for installation of collar pipe; base of complete oxidation at 2.0m.
East_Av	A212	2.0	5.2	Cba	CLAY		B2	0.00	NR			Very strongly weathered, partially to completely oxidised, very soft, crumbly, broken, mid brown to orange-brown, weakly ferruginous clay and saprolite rock; remnant micro-fractured and possibly bedded textures locally preserved; 1.2m of complete core loss recorded by driller in first run to 5.0m; crumbly, colour-mottled clay at down hole contact.
East_Av	A212	5.2	12.6	Cba	SSLT		O2	0.00	DF	BD	35	Strongly weathered, partially oxidised, soft to very soft, crumbly, broken to intact, light to mid orange, orange-brown, weakly ferruginous, very fine-grained siltstone and shale; micro-fractured and disrupted in places; planar bedding locally preserved, with thin millimetric shaley laminae; common ferruginous clay partially to completely replacing, gradually decreasing to staining with depth; broken, gradational weathering change down hole.
East_Av	A212	12.6	18.3	Cba	SSLT	Ac	N2	0.20	NR	BD	40	Moderately to weakly weathered, becoming relatively fresh, partially oxidised, broken, light cream-orange to light grey, mid green-grey, very fine-grained shale and volcanoclastic siltstone; fractured and disrupted in places; planar bedding preserved, with thin millimetric shaley laminae and as weak foliation in silty lenses; rare trace py. as blebs; minor ferruginous clay as staining and partially replacing, decreasing with depth; thin ferruginous clay coatings on joint planes; down hole contact not preserved in core; becoming leached, broken.
East_Av	A212	18.3	19.3		LOSS		O4	0.00	NR			Very strongly weathered, partially to completely oxidised, soft to very soft, mid to dark orange, orange-brown, moderately ferruginous clay fragments; major core loss zone.
East_Av	A212	19.3	22.8	Cba	CLAY		B4	0.00	GD			Very strongly weathered, partially oxidised, soft, in places puggy to crumbly, mid to dark brown, mottled orange-brown, weakly ferruginous clay, after siltstone and shale; micro-fractured and disrupted in places; remnant disrupted bedding locally preserved; core totally fragmented in places; diffuse, gradational change into relative fresher rock at contact.

Allegiance Metals Drill Log

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A212	22.8	27.2	Cba	SHAL	Ac	P2	0.00	DF			Moderately weathered to relatively fresh, partially oxidised, soft, fractured, light to mid purple, mottled brown-fawn, orange, very fine-grained, volcanoclastic shale and siltstone; variable staining and partial replacement by weakly ferruginous clay; disturbed to disrupted bedding locally preserved; weak actinolite-tremolite alteration in silty lenses; crumbly to fragmented, grey clay zones; gradual change to fresher rock at contact.
East_Av	A212	27.2	33.2	Cba	SHAL	AcPh	G2	0.10	BR	BD	45	Very weakly weathered to fresh, hard, broken, micro-fractured, laminated, light to mid purple-brown, green, very fine-grained, volcanoclastic shale and siltstone; weakly phlogopitised; moderately actinolite-tremolite altered in silty lenses; well preserved planar to disrupted, contorted bedding; rare trace brassy py. as small blebs; sparse ferruginous clay as thin coatings on joint planes.
East_Av	A212	33.2	34.0		LOSS		B2	0.00	NR			Moderately to strongly weathered, partially oxidised, relatively soft, totally fragmented, clayey core; major core loss zone; volcanoclastic siltstone-shale.
East_Av	A212	34.0	37.5	Cba	SSLT		B2	0.30	NR	BD	47	Moderately weathered, partially oxidised, relatively soft, micro-fractured, banded, light to mid brown, orange-brown, grey, very fine-grained, volcanoclastic siltstone and shale; well preserved, planar, centimetric bedding laminae; minor limey interbeds from 36.8-37.2m, with trace sphalerite and galena aggregates; minor ferruginous clay staining and partially replacing; sparse Fe oxides infilling micro-fractures and as selvages around fractures; contact not recovered.
East_Av	A212	37.5	42.4		LOSS		O4	0.00	BR			Extremely weathered, near completely oxidised, soft to very soft, mid to dark orange, orange-brown, weakly ferruginous clay; major core loss zone; remnant disrupted to fragmented bedding preserved in clay in places; lithology and depth limits uncertain.
East_Av	A212	42.4	46.7	Cba	VBVF	Ac	G3	0.00	BR	BD	40	Relatively fresh, weakly oxidised, jointed, becoming broken, turbiditic to well bedded, light to mid green, cream to grey, fine-grained, silt-grade volcanoclastics; moderately actinolitised; planar to micro-faulted bedding well preserved; rare quartz-rich sandy lenses; minor orange-brown ferruginous clay as thin coatings on joint planes and in fractures; core becoming very broken to fragmented.

Allegiance Metals Drill Log
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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A212	46.7	47.6		FALT		N4	0.00	NR			Fresh to weakly oxidised, soft, very broken to totally fragmented, mid to dark grey, shale breccia; abundant caved or overdrilled fragments; tending to clayey.
East_Av	A212	47.6	59.2	Cba	VBUF	Ac	G3	0.50	SP	BD	40	Fresh to very weakly oxidised, hard, becoming broken, bedded, mid to dark green, mottled cream and dark grey, actinolitised, fine-grained, vitric and pumiceous, volcanoclastic siltstone to sandstone; lesser brown to purple-brown, very fine-grained shale interbeds and laminae; rare lithic-rich chip wacke lenses; weakly phlogopitised in places; well preserved planar to disrupted bedding; bedding to core angles shallow with depth, to 62 degrees at 55.3m; leached, clayey zone from 52.5-53.1m; trace py. as fine disseminations and aggregates, with rare trace cpy.; sharp lithological change at contact.
East_Av	A212	59.2	74.0	Cba	SSLT	PhAc	B4	0.10	SI	BD	50	Fresh, hard to very hard, laminated, mid to dark brown, purple-brown, dark green, fine to very fine-grained, lithic-rich volcanoclastic siltstone, with increasing brown shale interbeds and laminae; gradual fining down hole; well bedded, with planar laminae in shaley sub-units; minor massive wacke lenses; moderate pervasive phlogopite alteration; minor actinolite-tremolite in fractures and veins; trace quartz veinlets; rare trace py. as blebs and clots; rare trace po. as blebs.
East_Av	A212	74.0	78.55	Cba	SKRN	AcDiQz	G5	1.00	DF			Fresh, hard to very hard, massive, dark green, becoming mottled light green, cream-green, grey, fine to coarse-grained, actinolite-tremolite-diopside-?epidote skarn; increasing common grey quartz groundmass; minor white carbonate aggregates and intergrowths; sparse to minor po. stringers and aggregates; trace molybdenite, cpy. and brown ?sphalerite as blebs; no UV fluorescence detected.
East_Av	A212	78.55	79.85	Cba	SKRN	AcCh	G6	0.70	SI			Fresh, hard to moderately hard, massive, locally crudely streaked, darkest green, blue-green, fine-grained, actinolite-tremolite-chlorite-talc skarn; minor light green-cream diopside-epidote aggregates and patches; trace to sparse py. as blebs; trace po. as disseminations and clots; rare trace sphalerite, cpy. and possible molybdenite as blebs; no UV fluorescence detected; rare thin chloritic shears.

Allegiance Metals Drill Log
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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A212	79.85	82.5	Cba	SKRN	QzAc	G3	1.00	FT			Fresh, extremely hard, cherty, micro-fractured, mottled, mid green, brown to pinkish-brown, grey, fine-grained, quartz-actinolite-tremolite ?skarn; possibly after a fragmental volcanic or volcanoclastic rock; abundant quartz flooding groundmass; common wisps and veins of yellowish-brown diopside-?epidote; minor light green tremolite intergrowths; sparse cpy. as small blebs and specks; increasing green actinolite-chlorite from 81.8m, with possible thin chloritic shears.
East_Av	A212	82.5	90.4	Cba	VBVF	Ac	G4	0.00	SI	BD	42	Fresh, hard, micro-fractured, disrupted, mid green, mottled cream, brown to fawn, fine to very fine-grained, actinolitised, volcanoclastic siltstone and sandstone; lesser brown to fawn-cream shale-siltstone as fragmented interbeds and lenses; minor altered, devitrified, ashy lenses; weakly actinolitised and very weakly phlogopitised; trace quartz veinlets and stringers; thin shear from 89.7-89.75m.
East_Av	A212	90.4	108.45	Cba	SHAL	Ph	B4	0.30	GD	BD	40	Fresh, hard, micro-fractured, disrupted, locally laminated, mid to dark brown, purple-brown to buff, fine to very fine-grained shale-siltstone dominant; lesser light to mid brown, purple-buff, very fine-grained shale as disturbed to fragmented laminae and interbeds; minor lenses of coarse-grained, quartz-rich, volcanoclastic chip-wacke, with shale rip-up clasts to 20mm in length; moderate pervasive phlogopite alteration; minor actinolite-tremolite in veinlets and fractures; disrupted to planar bedding well preserved; trace quartz veinlets; trace py. as subhedral blebs in shaley sub-units; trace po. as aggregates and stringers; bedding in shale laminae steepens markedly with depth, to 23 degrees to core axis.
East_Av	A212	108.45	138.6	Cba	GWAC	Ph	B5	0.50	DF	BD	45	Fresh, hard, massive, locally laminated, in places disrupted, dark to very dark brown, purple-brown, green to grey, fine-grained, lithic-rich, silt-grade wacke; minor light to mid brown, buff, very fine-grained shale as disturbed to fragmented laminae and interbeds; minor shale rip-up clasts 5-10mm in length; moderate to strong pervasive phlogopite alteration; sparse actinolite-tremolite alteration, mainly vein or stringer form; bedding well preserved in shaley sub-units; trace to sparse po. as blebs and aggregates; rare trace py. as subhedral blebs; diffuse lithology controlled alteration contact.

Allegiance Metals Drill Log
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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A212	138.6	140.35	Cba	VBLF	AcPh	G5	0.50	SI	BD	20	Fresh, hard, disrupted, locally laminated, dark green, streaked brown, altered, fine-grained, lithic-rich, silt-grade volcanoclastic, with lenses of darkest brown, phlogopitised, fine to medium-grained, lithic-rich wacke; strong pervasive actinolite-tremolite alteration; disrupted to fragmented bedding; trace cpy. and galena as scattered aggregates; sharp irregular lithological change at contact.
East_Av	A212	140.35	143.2	Cba	SHAL	AcCh	B2	0.00	SI	BD	25	Fresh, moderately hard, micro-fractured, laminated, light to mid brown-cream, very fine-grained shale, intermixed with siltstone; well bedded, with planar to disrupted, contorted laminae; becoming increasingly altered from 142.2m, pervasively actinolitised and chloritised; minor quartz-chlorite veins and chloritic shears; sharp, very irregular down hole contact.
East_Av	A212	143.2	150.85	Ccarb	CARB	AcSp	N1	0.30	FT	FT	43	Fresh, moderately hard, massive, stylolitic, light grey, brown-grey, in places dark green, very fine-grained, impure limestone; initially weakly altered, becoming moderately actinolitised, possibly serpentinitised; weak skarn overprint, with sparse magnetite interstitial and in stylolites; trace sphalerite and galena in small aggregates; rare trace po. and pe. as specks; thin 4cm shear at down hole contact, at 43 degrees to core axis.
East_Av	A212	150.85	162.4	Ccarb	SKRN	Di	N1	0.50	SI			Fresh, hard to very hard, massive, micro-fractured, lightest grey, mottled with cream-yellow, very fine-grained, impure limestone, with common diopside skarn overprint in patches; moderate patchy diopside-?carbonate alteration; common very fine micro-fractures, some stylolitic; sparse calcite veins; rare trace po. + py. as minute specks disseminated throughout; trace to sparse ?galena as fine aggregates in and around micro-fractures; rare trace py.
East_Av	A212	162.4	166.9	Csu	SKSP	DiSpMg	G5	0.50	DF			Fresh, hard to moderately hard, massive, veined, strongly mottled, darkest green, light grey, streaked black-yellow, fine to coarse-grained, diopside-tremolite-serpentine skarn, after ultramafic; minor 2-5% magnetite interstitial and as ragged aggregates; trace calcite veins and veinlets; rare trace po. and pe. as specks and scattered blebs; diffuse down hole contact, with increase in serpentine.

Allegiance Metals Drill Log
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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A212	166.9	182.3	Csu	SERP	DiMg	G5	0.10	BR			Fresh, relatively soft, broken, fractured, veined to streaked, dark to very dark bottle green, mottled light green and cream, very fine-grained serpentinite, with increasing diopside-serpentine skarn down hole; sparse carbonate-chrysotile as thin veinlets; sparse talc stringers; minor to common 10-15% magnetite interstitial and as aggregates; rare trace po. and py. as minute specks, mostly concentrated in magnetite-rich serpentine-diopside skarn near down hole contact.
East_Av	A212	182.3	197.35	Cba	VBVF	AcSe	G4	0.10	SP			Fresh, hard to very hard, massive, in places brecciated, mid to dark green, locally darkest green-black, actinolitised, fine-grained, silt-grade volcanoclastics; strong pervasive actinolite-tremolite alteration of groundmass throughout; sparse schorl patches and aggregates; indistinctly bedded; minor actinolite-magnetite skarn patches, as from 190.5-191.0m; brecciated textures in places, with quartz matrix; sparse quartz-carbonate veinlets and stringers; rare trace po. and py. as blebs, associated with magnetite skarn; sharp contact at 20 degrees to core axis.
East_Av	A212	197.35	199.75		FALT	AcCh	G5	0.00	DF	FT	20	Fresh, hard to moderately hard, veined, altered, dark to very dark green, black to blue breccia, infilling possible fault zone; very strong pervasive actinolite-tremolite alteration of matrix; increasing actinolite-chlorite alteration; minor quartz-calcite veins and patches; diffuse down hole contact.
East_Av	A212	199.75	216.75	Cba	VBVF	AcSeSc	G4	0.05	DF			Fresh, hard to very hard, massive, in places veined and brecciated, mid to dark green, locally darkest green-black, actinolitised, fine to very fine-grained, silt-grade volcanoclastics; pervasive actinolite-tremolite-sericite alteration of groundmass throughout; sparse quartz-?schorl as augen and aggregates; indistinctly bedded throughout; brecciated textures in places, mainly confined to irregular veins; sparse quartz-carbonate stringers and patches; minute trace cpy. as blebs; becoming finer grained towards down hole contact; irregular diffuse contact.
East_Av	A212	216.75	222.45	Cba	GABB	AcSe	G5	0.00	SI			Fresh, hard to very hard, massive, locally micro-fractured, dark green, speckled cream-white, actinolitised, fine to medium-grained, mafic volcanic or minor intrusive; possible chilled, brecciated margins; strong semi-pervasive, texturally destructive actinolite-sericite-feldspar alteration throughout; chloritic fractures.

Allegiance Metals Drill Log

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A212	222.45	236.95	Cba	LBPF	Ac	G5	0.10	DF			Fresh, hard to very hard, massive, micro-fractured, locally brecciated, mid to dark green, mottled light green and white, actinolitised, fine-grained, mafic volcanic or possibly intrusive; brecciated, micro-fractured patches, possibly hyaloclastite; strong pervasive, in places texturally destructive actinolite-sericite alteration throughout, with actinolite-chlorite in veins and stringers; trace quartz-carbonate veins; rare trace sphalerite as aggregates in quartz veins and patches; gradually becoming brecciated at down hole contact.
East_Av	A212	236.95	285.8	Cba	LBPF	Ac	G4	0.05	FT			Fresh, hard to very hard, massive, locally brecciated, mid to dark green, grey-green, actinolitised, fine to very fine-grained, mafic volcanic or possibly volcanoclastic; coherent lithology package, with ?primary volcanic breccia zones; thin 1-2cm planar to contorted bands of possible hyaloclastite; strong pervasive actinolite-tremolite-sericite alteration of matrix; rare patches of dark green-black actinolite, with sparse epidote, probably skarn overprint; trace carbonate-quartz veins; rare trace cpy. as aggregates in discontinuous quartz veinlets; possible fault at down hole contact, at 55 degrees to core axis.
East_Av	A212	285.8	295.9	Cba	GABB	AcQz	G4	0.00	DF			Fresh, very hard, massive, locally veined, mid to dark green, speckled to mottled cream-white, actinolitised, medium to coarse-grained, mafic volcanic or possibly intrusive; strong pervasive, texturally destructive actinolite-?feldspar alteration; strongly silicified; dark green actinolite-tremolite veins and veinlets; minor finer grained, mid to dark green, actinolitised patches; possible axinite staining and as aggregates; weak compositional banding in places; locally fragmental textures; rare trace po. as blebs; sparse black ?magnetite as subhedral disseminations.
East_Av	A212	295.9	314.0	Cba	SKRN	AcQz	G5	0.05	DF			Fresh, very hard, massive, rarely veined, dark green, mottled grey to black-green, fine to medium-grained, actinolite-tremolite-quartz skarn, possibly after mafic volcanic or intrusive; abundant texturally destructive actinolite alteration; common quartz groundmass; trace epidote veins and aggregates; brecciated in places; trace py. as blebs; sparse to minor black ?magnetite or possibly sphalerite as subhedral disseminations.

Allegiance Metals Drill Log
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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A212	314.0	322.65	Cba	LBPF	AcCh	G6	0.00	SP	BN	42	Fresh, hard to very hard, massive, dark to very dark green, actinolitised, fine-fine-grained, mafic volcanic or possible volcanoclastics; very strong pervasive actinolite-chlorite alteration throughout; tending to gabbroic in patches, with quartz-?feldspar groundmass; weak compositional banding in places; trace white calcite veinlets; thin shear, with carbonate veining, at 321m.
East_Av	A212	322.65	323.2		FALT		N2	1.00	SP	FT	40	Soft, micro-fractured, tending to puggy, light to mid grey, lithic breccia; common mid cream to grey-cream, coarsely crystalline ?dolomite infilling veins, with strong crystal twinning; minor late-stage, white calcite as irregular veins within dolomite; sparse py. as small crystals on fractures; sharp down hole contact, with chloritic shear plane.
East_Av	A212	323.2	330.35	Cba	LBPF	AcCh	G5	0.00	SP			Fresh, hard, massive, weakly banded, veined, dark to very dark green, altered, actinolitised, fine to medium-grained, mafic volcanic or possible volcanoclastics; very strong pervasive, texturally destructive, actinolite-chlorite alteration; minor grey quartz as dispersed grains or augen; weak compositional banding in places, with green-black actinolite-chlorite; sparse white calcite as veinlets and locally as veins; weak skarn overprint zones; sharp planar contact at 60 degrees to CA.
East_Av	A212	330.35	330.45		FALT		N1	0.00	SP	FT	60	Soft, sheared, tending to puggy, light grey, lithic breccia; single 4mm vein of white, coarsely crystalline calcite; sharp down hole contact, with shear plane.
East_Av	A212	330.45	348.8	Cba	VBLF	AcDi	G5		SI	BD	37	Fresh, hard to moderately hard, disrupted, veined, weakly foliated, dark to very green, grey-green, actinolitised, fine to medium-grained, silt-grade to sandy, mafic volcanoclastics; very strong pervasive, texturally destructive, actinolite-chlorite alteration; common cream diopside-carbonate veining; possibly altered calcareous unit; indistinctly bedded; sparse white calcite in late-stage veins and veinlets near down hole contact; rare thin shears.
East_Av	A212	348.8	349.0		FALT	CbCy	G2	0.00	SP	FT	20	Puggy brittle fault; late carbonate veining; puggy grey clay.
East_Av	A212	349.0	376.4	Cba	VBLF	AcDi	G5		SI	BD	37	Fresh, hard to moderately hard, disrupted, veined, weakly foliated, dark to very green, grey-green, actinolitised, fine to medium-grained, silt-grade to sandy, mafic volcanoclastics; very strong pervasive, texturally destructive, actinolite-chlorite

Allegiance Metals Drill Log

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A212	376.4	378.4	Cdg	SAND	AcDi	A3	0.00	FT	BD	35	alteration; common cream diopside-carbonate veining; possibly altered calcareous unit; indistinctly bedded; sparse white calcite in late-stage veins and veinlets near down hole contact; rare thin shears.
East_Av	A212	378.4	378.6		FALT	CbCy	G2	0.00	SP	FT	20	Laminated siltstone and fine grained lithic volcanoclastic sandstone. Fine beds. Pervasive actinolite alteration with minor diopside bands. Moderately hornfelsed. Minor fine late carbonate veins.
East_Av	A212	378.6	381.4	Cdg	SAND	AcDi	A3	0.00	FT	BD	35	Puggy brittle fault; late carbonate veining; puggy grey clay.
East_Av	A212	381.4	390.2		FALT	Cy	A3	0.00	SP	FT	60	Laminated siltstone and fine grained lithic volcanoclastic sandstone. Fine beds. Pervasive actinolite alteration with minor diopside bands. Moderately hornfelsed. Minor fine late carbonate veins. Minor carbonate beds, disrupted. Increasing brittle deformation. Broken core with puggy bands.
East_Av	A212	390.2	392.0	Cdg	VBLM	AcCh	G4	0.00	SP	FT	75	Large, very broken, puggy brittle fault; numerous clay filled crush zones; broken core; large regional fault, possibly ?Little Henty River Fault; white calcite-qtz veins.
East_Av	A212	392.0	392.1		FALT	CbCy	G2	0.00	SP	FT	20	Dark grey to green, fine to medium grained volcanoclastic sandstone? Pervasive strong actinolite-chlorite alteration. Numerous late calcite veins.
East_Av	A212	392.1	393.7	Cdg	VBLM	AcCh	G4	0.00	SP	FT	75	Puggy brittle fault; late carbonate veining; puggy grey clay.
East_Av	A212	393.7	394.2		FALT	CbCy	G2	0.00	SP	FT	20	Dark grey to green, fine to medium grained volcanoclastic sandstone? Pervasive strong actinolite-chlorite alteration. Numerous late calcite veins. Intensely deformed, possibly mylonitic fault.
East_Av	A212	394.2	400.2	Cdg	VBLB	AcCh	G5	0.00				Puggy brittle fault; late carbonate veining; puggy grey clay. Massive, dark green, matrix supported basaltic lithic volcanoclastic sandstone/breccia. Dominantly medium-grained volcanoclastic sandstone with sparse angular clasts of rhyolite/dacite? Pervasive actinolite-chlorite alteration with sericite-carbonate altered clasts. Moderately deformed with bleached carbonate veining and domainal alteration less frequent downhole. EOH at 400.2m confirmed.

Alliance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A213	0	11	Cba	CLAY	CyLi	O					Deeply weathered basaltic volcanics. Dark orange clay with minor relict rock fragments. Core loss.
East_Av	A213	11	15.6	Cba	VBLB	AcDi	A2	0.00	Sp	Bd	50	Massive to brecciated, pale grey basaltic lithic volcaniclastic sandstone and breccia. Intense domainal diopside and actinolite alteration. Banded and brecciated. Limonite weathered jts.
East_Av	A213	15.6	17.3	Cba	CLAY	CyLi	O	0.00				Deeply weathered basaltic volcanics. Dark orange clay with minor relict basaltic lithic sandstone, actinolite-diopside altered.. Core loss.
East_Av	A213	17.3	20	Cba	VBLM	AcDi	A2	0.00	Sp	Bd	50	Massive to brecciated, pale grey basaltic lithic volcaniclastic sandstone and breccia. Intense domainal diopside and actinolite alteration. Banded and brecciated. Limonite weathered jts.
East_Av	A213	20	21.5	Cba	VBLM	AcLi	O	0.00	Ft			Massive to brecciated, pale grey basaltic lithic volcaniclastic sandstone and breccia. Intense domainal diopside and actinolite alteration weathered to limonite Banded and brecciated. Limonite weathered jts.
East_Av	A213	21.5	23		FALT	CyLi	O	0.00	Ft			Deeply weathered fault. Puggy clay and limonite. 1.1m core loss.
East_Av	A213	23	35	Cba	VBLM	AcLi	A2	0.00	Ft			Massive to brecciated, pale grey basaltic lithic volcaniclastic sandstone and breccia. Intense domainal diopside and actinolite alteration weathered to limonite Minor black shale. Banded and brecciated. Limonite weathered jts.
East_Av	A213	35	35.2		FALT	Cy	A2	0.00	Ft	Ft	80	Puggy Fault.
East_Av	A213	35.2	41.1	Cba	VBLM	AcLi	A2	0.00	Ft			Massive to brecciated, pale grey basaltic lithic volcaniclastic sandstone and breccia. Intense domainal diopside and actinolite alteration weathered to limonite Minor black shale. Banded and brecciated. Limonite weathered jts.
East_Av	A213	41.1	43.7	Cba	VBLM	AcLi	A2	0.00	Ft			Massive to brecciated, pale grey basaltic lithic volcaniclastic sandstone and breccia. Intense domainal diopside and actinolite alteration. Banded and brecciated.
East_Av	A213	43.7	46.8	Ccarb	CARB	CaCh	A2	0.10	Sp	Bd	45	Pale grey, well bedded calcareous basaltic lithic sandstone/limestone. Strong calcite veining with minor chlorite. Brecciated and disrupted bedding. Minor sphalerite and cpy veins and disseminations.
East_Av	A213	46.8	52.9	Cba	VBLM	AcDi	G3	0.00				Massive, dark green intensely altered basaltic volcaniclastic sandstone. Laminar to massive bedding. Some graded beds. Pervasive actinolite alteration.

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A213	52.9	61.4	Ccarb	CARB	CaCh	A2	0.10	Sp	Bd	25	Pale grey, well bedded calcareous basaltic lithic sandstone/limestone. Strong calcite veining with minor chlorite. Brecciated and disrupted bedding.
East_Av	A213	61.4	64	Cba	VBLM	AcDi	G3	0.00				Massive, dark green intensely altered basaltic volcanoclastic sandstone. Pervasive actinolite alteration with minor diopside bands. Minor relict calcareous limestone bands.
East_Av	A213	64	64.5	Ccc	SHAL	GrPh	N	2.00	Sp	Bd	45	Laminated and disrupted black shale. Sub mylonitic foliation and brecciation. Late Py-Po veins.
East_Av	A213	64.5	77	Ccc	GWAC	AcPh	B3	0.00		Bd	50	Massive feld-lithic greywacke. Intense phlogopite alteration with strong patchy actinolite overprint. Minor laminar siltstone interbeds.
East_Av	A213	77	77.2		FALT	Cy	A2	0.00	Ft			Puggy brittle fault.
East_Av	A213	77.2	102.9	Ccc	GWAC	AcPh	B3	0.00		Bd	50	Massive feld-lithic greywacke. Intense phlogopite alteration with strong patchy actinolite overprint. Minor laminar to massive siltstone interbeds. Graded beds, down hole facing.
East_Av	A213	102.9	112	Cba	VBLM	Ac	G4	0.00	Gr			Massive, dark green intensely altered basaltic volcanoclastic sandstone. Pervasive actinolite alteration with minor diopside bands. Patchy magnetite-magnesite veins.
East_Av	A213	112	137	Ccc	GWAC	AcPh	B3	0.00	Ft	Bd	45	Massive feld-lithic greywacke. Intense phlogopite alteration with strong patchy actinolite overprint. Minor laminar to massive siltstone interbeds. Graded beds, down hole facing.
East_Av	A213	137	155.3	Csu	SKRN	DiCb	A1	0.10	Gr			Massive, crystalline, pale grey intensely metasomatised ultramafic skarn. Crystalline tremolite-diopside-carbonate alteration with relict serpentinite nodules. Magnetite disseminations and veins, rarely altered to haematite. Trace coarse pentlandite. Possible sphalerite veins?
East_Av	A213	155.3	183	Csu	SERP	SpTr	G4	0.00				Massive, mottled dark green-grey serpentinite altered ultramafic. Fine and coarse disseminated magnetite. Patchy skarned tremolite alteration.
East_Av	A213	183	184.8		FALT	SpCy	A4	0.00	Ft			Faulted serpentinite.
East_Av	A213	184.4	187.2	Csu	SERP	SpTr	G4	0.00				Massive, mottled dark green-grey serpentinite altered ultramafic. Fine and coarse disseminated magnetite. Patchy skarned tremolite alteration.

Alliance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A213	187.2	277.4	Cdg	LRFF	AcCh	G3	0.00	Gr			Massive, green-grey, rhyolitic lava and lava breccia. Intense texture destructive, pervasive actinolite-sericite-chlorite alteration. Relict hyaloclastic textures. Mostly fine grained to aphyric with some zones of qtz-feldspar phyric rhyolite. Massive mottled to breccia texture.
East_Av	A213	277.4	313	Cgb	GABB	AcCh	G3	0.00	IR			Massive, feldspar-pyroxene phyric gabbro. 40% fine to medium grained feldspar phenocrysts in sericite-actinolite altered groundmass. Minor brecciated zones.
East_Av	A213	313	324.8	Cgb	GABB	ChAc	G3	0.00	Ft			Massive, feldspar-pyroxene phyric gabbro. 40% fine to medium grained feldspar phenocrysts in sericite-actinolite altered groundmass. Brecciated and possibly peperitic contact.
East_Av	A213	324.8	327.3	Cdg	GWAC	PhAc	B3		Ft	Ft		Massive, feldspar- lithic volcanoclastic sandstone and lesser siltstone. Graded beds. Pervasive phlogopite-alteration with late actinolite-diopside overprint. Brecciated and veined.
East_Av	A213	327.3	331.8	Csu	SKRN	DiMt	A2	0.10	Ft			Pale grey, intensely metasomatised ultramafic skarn. Intense pervasive carbonate-diopside alteration. Late massive magnetite veins. Very minor Py-cpy mineralisation.
East_Av	A213	331.8	347.1	Cdg	VBLB	AcDi	G5	0.00	Gr			Massive, pale cream and green basaltic volcanoclastic sandstone and siltstone breccia. Intense domainal actinolite-diopside alteration. Brecciated and disrupted.
East_Av	A213	347.1	348.5	Ccc	SHAL	PhAc	A5	0.05	Gr			Dark brown to grey, fine grained siltstone and shale. Intense phlogopite alteration with late actinolite-diopside overprint.
East_Av	A213	348.5	352.7	Cdg	VBLB	AcDi	G5	0.00	Gr			Massive, pale cream and green basaltic volcanoclastic sandstone and siltstone breccia. Intense domainal actinolite-diopside alteration. Brecciated and disrupted.
East_Av	A213	352.7	354.5		FALT	AcCy	A2	0.00	Ft			Puggy brittle fault. Broken core.
East_Av	A213	354.5	362.8	Cdg	VBLM	TcPh	A5	0.00				Dark grey and brown intensely altered volcanoclastic sandstone. Pervasive texture destructive phlogopite-actinolite alteration. Late prehnite retrograde spots.
East_Av	A213	362.8	370.5	Cdg	VBLM	AcSe	G4	0.00	Sp	Bd	60	Massive, fine to medium grained volcanoclastic sandstone. texture destructive pervasive actinolite-sericite alteration. Probably basaltic provenance detritus. Relict laminated bedding. Fine siltstone interbeds.
East_Av	A213	370.5	377.7	Cdg	SILT	AcSi	A2	0.00	Sp	Bd	20	Laminated Pale grey cherty siltstone. Foliated and disrupted bedding. Pervasive silicification and actinolite alteration. Tectonised and altered.

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A213	377.7	382.2	Cdg	SHAL	PhAc	N	0.10		Bd	30	Black shale. Foliated and submylonitic texture. Dismembered and boudinaged silty-sandy interbeds. Patchy phlogopite alteration.
East_Av	A213	382.2	392	Cdg	SAND	PhSi	B2	0.00		Bd	15	Well bedded, laminated siltstone and sandstone. 1-2cm interbeds. Moderate phlogopite alteration with silicified zones and veins. Brecciated and disrupted bedding.
East_Av	A213	392	406	Cdg	SHAL	SiCb	N	p.1		Bd	25	Black shale. Foliated and submylonitic texture. Dismembered and boudinaged silty-sandy interbeds. Patchy phlogopite alteration. Silicified with silica-carbonate veins.
East_Av	A213	406	409.9	Cdg	VBLM	AcSe	G4	0.00	Sp	Bd	60	Massive, fine to medium grained volcanoclastic sandstone. texture destructive pervasive actinolite-sericite alteration. Probably basaltic provenance detritus. Relict laminated bedding. Fine siltstone interbeds.
East_Av	A213	409.9	413.1		FALT	AcSe	G4	0.00	Gr			Brecciated volcanoclastic siltstone. Brittle faulted and annealed. Little Henty Fault. Ac-sericite alteration. Texture destructive.
East_Av	A213	413.1	415.4		FALT	ChSe	G4	0.00	Ft	Ft	50	Broken, puggy brittle fault. EOH

Allegiance Metals - Drill Log

BHID

A215

Collar

Project	BHID	Easting	Northing	RL	Depth	Date	Geologist
East_Aveb	A215	355999.5	5357511.7	2194.9	511.3	10/09/2007	TC

Surveys

Project	BHID	Depth	Azm_Amg	Dip
East_Aveb	A215	0	179.72	-53.68
East_Aveb	A215	50	178.87	-51.90
East_Aveb	A215	100	179.38	-52.02
East_Aveb	A215	150	180.24	-52.37
East_Aveb	A215	200	181.17	-52.13
East_Aveb	A215	250	182.88	-51.96
East_Aveb	A215	300.1	183.31	-52.04
East_Aveb	A215	350	183.00	-52.53
East_Aveb	A215	399.6	185.26	-50.66
Raw data (uncorrected)				
East_Aveb	A215	50	180.2	-52.1
East_Aveb	A215	100	179.2	-52.3
East_Aveb	A215	150	182.2	-52.9
East_Aveb	A215	200	181.2	-52.8
East_Aveb	A215	250	181.2	-52.3
East_Aveb	A215	300	198.2	-52.9
East_Aveb	A215	350	166.2	-52.9
East_Aveb	A215	400	14.2	
East_Aveb	A215	450	170.2	-48.9
East_Aveb	A215	400	188.2	-47.0

Hole Sizes

From	Size
0	HQ
83.5	NQ

Drilled By

Boart Longyear

Analyses By

BRL

Gyro survey completed by NES.

Comments

A215 is a resource extension/exploration drillhole for the East Avebury and Saxon deposits.

Significant Intersections

No significant intersections. Highest grade was:
220.0 - 221.0, 1m @ 0.6% Ni, 0.01% As, 0.03% Co and 0.8% S

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A215	0	9.2	Cba	VBLM	CyAc	O	0.00	Gr			Massive, intensely weathered basaltic volcanoclastic sandstone. Deeply weathered orange clay with significant core loss.
East_Av	A215	9.2	15.1	Cba	SILT	AcCy	O	0.00	Sp	Bd	45	Laminated basaltic volcanoclastic siltstone. Well bedded. Deeply weathered limonite-clay alteration.
East_Av	A215	15.1	30.6	Cba	VBLM	AcCy	O	0.00	Gr			Very broken and weathered with poor (30%) core recoveries. Deeply weathered basaltic lithic volcanoclastic sandstone. Limonite-clay altered.
East_Av	A215	30.6	35.5	Cba	SILT	AcCh	G3	0.00	Sp	Bd	35	Dark green to grey, basaltic lithic siltstone and sandstone. Fine laminated beds. Pervasive actinolite alteration. Disrupted beds.
East_Av	A215	35.5	47.9	Ccc	GWAC	AcPh	B3	0.00		Bd	70	Massive, basaltic feldspar-lithic volcanoclastic greywacke. Pervasive phlogopite-actinolite alteration. Graded massive beds with laminated siltstone tops. Down hole facing.
East_Av	A215	47.9	78.3	Cba	SILT	AcCh	G3	0.00	Sp	Bd	15	Dark green to grey, basaltic lithic siltstone and sandstone. Fine laminated beds. Black shaley beds. Patchy actinolite alteration. Disrupted beds. Minor greywacke interbeds.
East_Av	A215	78.3	85.5	Ccarb	CARB	CbCh	A2	0.05	Gr	Bd	20	Pale grey, well bedded calcareous volcanoclastic sandstone and limestone. Chloritic interbeds of volcanoclastic sandstone. Stylolytic and calcite veined. Minor coarse sphalerite-pyrite-cpy veining.
East_Av	A215	85.5	93.4	Ccarb	CARB	SeAc	G2	0.00		Bd	25	Pale green and grey, epidote-chlorite-actinolite altered limestone/calcareous volcanoclastic sandstone. Coarse white calcite veins. Minor coarse brown sphalerite veins.
East_Av	A215	93.4	106.7	Ccarb	CARB	SeAc	G2	0.00	Gr	Bd	25	Pale green and grey, epidote-chlorite-actinolite altered limestone/calcareous volcanoclastic sandstone. Medium grained disseminated actinolite? spots. Coarse white calcite veins. Skarn altered carbonate?
East_Av	A215	106.7	107	FALT	FALT	Cb	A2			Ft	30	Puggy brittle fault. Calcite veins.
East_Av	A215	107	128.6	Ccarb	CARB	CbCh	A2	0.05	Sp	Bd	20	Pale grey, well bedded calcareous volcanoclastic sandstone and limestone. Chloritic interbeds of volcanoclastic sandstone. Stylolytic and calcite veined. Interbeds of black graphitic shale. Disrupted bedding.
East_Av	A215	128.6	151.2	Cba	VBLM	AcPh	G3	0.01	Gr	Bd	35	Massive, medium to fine grained feldspar-lithic basaltic volcanoclastic greywacke and siltstone. Patch actinolite-diopside alteration overprinting early phlogopite

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A215	151.2	172.8	Ccc	GWAC	PhAc	B2	0.00	Gr	Bd	20	alteration. Late calcite veins. Disrupted bedding. Dark brown and green, meduim grained feldspar-lithic volcanoclastic greywacke. Pervasive phlogopite alteration with patchy overprinting actinolite alteration. Minor siltstone and black shale.
East_Av	A215	172.8	179	Cba	VBLM	AcPh	G3	0.01	Gr	Bd	35	Massive, medium to fine grained feldspar-lithic basaltic volcanoclastic greywacke and siltstone. Patch actinolite-diopside alteration overprinting early phlogopite alteration. Late calcite veins. Disrupted bedding.
East_Av	A215	179	200.3	Cba	VBLF	AcDi	G4	0.00	Sp	Bd	60	Well bedded, laminated basaltic lithic volcanoclastic siltstone and minor shale. Pervasive actinolite alteration. Minor relict early phlogopite alteration. Intensely metasomatised. Patchy diopside alteration of fine siltstones.
East_Av	A215	200.3	215	Ccc	GWAC	PhAc	B2	0.00	Gr	Bd	20	Dark brown and green, meduim grained feldspar-lithic volcanoclastic greywacke. Pervasive phlogopite alteration with patchy overprinting actinolite alteration. Minor siltstone and black shale.
East_Av	A215	215	215.9	Cba	PHLG	TrPh	N	0.20	Sp			Dark grey to black intensely altered volcanoclastic sandstone. Pervasive actinolite alteration with fine phlogopite. Patchy metasomatized ultramafic intrusives. Tremolite altered. Nodules and disseminations of Cpy-Po. Strongly foliated.
East_Av	A215	215.9	219.8	Csu	SKSP	TrMt	A2	0.10	Sp			Massive, pale grey to dark grey, intensely metasomatized ultramafic skarn. Dark grey magnetite rich skarn. Minor disseminated sulphides (cpy-po). Crystalline tremolite-diopside matrix.
East_Av	A215	219.8	220.8	Cba	PHLG	TrPh	N	0.20	Sp			Dark grey to black intensely altered volcanoclastic sandstone. Pervasive actinolite alteration with fine phlogopite. Patchy metasomatized ultramafic intrusives. Tremolite altered. Nodules and disseminations of Cpy-Po. Strongly foliated.
East_Av	A215	220.8	234.4	Csu	SKSP	TrMt	A2	0.10	Sp			Massive, pale grey to dark grey, intensely metasomatized ultramafic skarn. Dark grey magnetite rich skarn. Minor disseminated sulphides (cpy-po). Crystalline tremolite-diopside matrix. 10-20% mottled Magnetite veins.
East_Av	A215	234.4	251.2	Cba	VBLM	AcPh	G3	0.01	Gr	Bd	60	Massive, medium to fine grained feldspar-lithic basaltic volcanoclastic greywacke and siltstone. Patch actinolite-diopside alteration overprinting early phlogopite

Allegiance Metals Drill Log												
Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A215	251.2	274	Ccc	GWAC	PhAc	B2	0.00	Gr	Bd	60	alteration. Well bedded. Dark brown and green, meduim grained feldspar-lithic volcanoclastic greywacke. Pervasive phlogopite alteration with patchy overprinting actinolite alteration. Minor siltstone and black shale. Graded beds, downhole facing.
East_Av	A215	274	278.8	Cba	VBLB	AcCh	G5	0.00	Sp			Massive, dark green, intensely actinolite-chlorite altered basltic lithic volcanoclastic. Texture destructive alteration. Moderately foliated. Chloritic joints.
East_Av	A215	278.8	279.7	Cba	VBLM	AcDi	G2	0.50	Sp			Massive, pale green, intensely metasomatised basaltic lithic sandstone. Pervasive actinolite-diopside alteration. 0.5% Po-Pe veins and disseminations.
East_Av	A215	279.7	285.1	Csu	SKSP	TrMt	G3	0.05	Gr			Massive, pale green and grey, intensely metasoamtised ultramafic skarn. Abundant mottled magnetite veining and aggregates. Pale green crystalline tremolite-diopside matrix. Very low sulphide content.
East_Av	A215	285.1	307.3	Csu	SKSP	TrCb	A2	0.01	Sp			Massive, dark grey intensely metasomatised ultramafic skarn. Abundant mottled magnetite veins. Kernals of remnant black serpentinite. Patchy pale green tremolite alteration. 10-15% calcite veins and aggregates, intense carbonate alteration. Low sulphide content.
East_Av	A215	307.3	317.9	Cba	VBLM	AcDi	G4	0.00	Sp	Bd	45	Disrupted, feldspar-lithic basaltic volcanoclastic sandstone and vitric siltstone. Patchy domainal actinolite-diopside alteration overprinting early phlogopite alteration. Disrupted bedding. Minor lithic breccia.
East_Av	A215	317.9	326.1	Csu	SKSP	TrMt	G4	0.01	Gr			Massive, pale green and grey, intensely metasomatised ultramafic skarn. Abundant mottled magnetite veining and aggregates. Pale green crystalline tremolite-diopside matrix. Very low sulphide content. Disseminated tourmaline?
East_Av	A215	326.1	328.1	Csu	SERP	SpMt	N	0.30	Gr			Massive black serpentinite and magnetite with lesser ultramafic skarn. Minor disseminated coarse pentlandite. Trace sphalerite disseminations..
East_Av	A215	328.1	345	Csu	SKSP	TrMt	G4	0.01	Gr			Massive, pale green and grey, intensely metasomatised ultramafic skarn. Abundant mottled magnetite veining and aggregates. Pale green crystalline tremolite-diopside matrix. Very low sulphide content. Disseminated tourmaline?
East_Av	A215	345	356.4	Csu	SKSP	TrDi	G2	0.00	Sp			Massive, pale green and grey, intensely metasomatised ultramafic skarn. Patchy mottled magnetite veining and aggregates. Pale green crystalline

Allegiance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A215	356.4	380	Cba	VBLM	AcDi	G4	0.00	Sp	Bd	45	tremolite-diopside. Very low sulphide content.
East_Av	A215	380	481.6	Cba	VBVF	AcDi	G4	0.05		Bd	70	Disrupted, feldspar-lithic basaltic volcanoclastic sandstone and vitric siltstone. Patchy domainal actinolite-diopside alteration overprinting early phlogopite alteration. Disrupted bedding. Late epidote alteration overprint with bleached zones. Minor associated sphalerite (0.05%).
East_Av	A215	481.6	511.3	Cdg	SILT	PhAc	B3	0.00		Bd	85	Laminated vitric siltstone, shale and volcanoclastic sandstone. Disrupted beds. Pervasive, patchy domainal actinolite-diopside alteration overprinting early phlogopite alteration. Minor patchy disseminated pyrrhotite. Patchy late epidote. Laminated siltstone and shale. Pervasive phlogopite alteration. Well bedded. EOH

Assay Sheet

Project	BHID	From m	To m	Ni %	Cu ppm	Pb ppm	Zn ppm	As ppm	Co ppm	S%	MgO %	FeO %	Au ppm	Strat	Rock
East_Avet	A215	215	216	0.11				150	300	1.0	13.5	18.0			
East_Avet	A215	216	217	0.37				150	220	0.4	17.9	24.4			
East_Avet	A215	217	218	0.34				100	260	0.3	22.8	25.0			
East_Avet	A215	218	219	0.31				150	260	0.3	21.3	26.2			
East_Avet	A215	219	220	0.32				100	300	0.3	21.1	29.4			
East_Avet	A215	220	221	0.58				100	320	0.8	17.3	22.2			
East_Avet	A215	221	222	0.42				200	200	0.4	14.0	20.1			
East_Avet	A215	222	223	0.20				150	100	-0.1	16.1	14.4			
East_Avet	A215	223	224	0.17				200	100	-0.1	17.4	16.7			
East_Avet	A215	224	225	0.25				150	140	-0.1	18.8	16.3			
East_Avet	A215	225	226	0.19				100	140	0.1	18.2	20.3			
East_Avet	A215	226	227	0.18				100	100	-0.1	24.4	15.0			
East_Avet	A215	227	228	0.28				100	220	0.3	18.5	20.4			
East_Avet	A215	228	229	0.32				100	300	0.6	18.3	26.1			
East_Avet	A215	229	230	0.14				200	120	-0.1	19.2	16.0			
East_Avet	A215	278	279	0.14				100	120	0.2	16.1	11.1			
East_Avet	A215	279	280	0.30				100	120	0.3	17.7	12.1			
East_Avet	A215	280	281	0.19				100	240	0.1	18.3	33.2			
East_Avet	A215	281	282	0.17				50	140	-0.1	21.5	17.9			
East_Avet	A215	282	283	0.07				-50	20	-0.1	25.2	5.7			
East_Avet	A215	283	284	0.05				100	-20	-0.1	26.1	1.8			
East_Avet	A215	317	318	0.05				100	40	-0.1	7.8	9.9			
East_Avet	A215	318	319	0.06				50	-20	-0.1	10.8	5.2			
East_Avet	A215	319	320	0.10				50	20	-0.1	9.5	6.5			
East_Avet	A215	320	321	0.12				50	160	-0.1	14.7	22.4			
East_Avet	A215	321	322	0.08				50	20	-0.1	13.0	8.1			
East_Avet	A215	322	323	0.07				50	-20	-0.1	12.3	4.8			
East_Avet	A215	323	324	0.12				100	100	-0.1	16.2	15.2			
East_Avet	A215	324	325	0.06				100	40	-0.1	13.8	10.2			
East_Avet	A215	325	326	0.12				100	140	-0.1	17.3	21.7			
East_Avet	A215	326	327	0.12				100	160	0.2	20.3	21.3			
East_Avet	A215	327	328	0.14				100	240	1.0	20.1	28.1			
East_Avet	A215	328	329	0.13				100	160	0.4	21.9	21.5			

Allegiance Metals - Drill Log

BHID

A216

Collar

Project	BHID	Easting	Northing	RL	Depth	Date	Geologist
East_Aveb	A216	355895.0	5357369.0	2189.3	401.0	24/09/2007	DAE

Surveys

Project	BHID	Depth	Azm_Amg	Dip
East_Aveb	A216	0	179.35	-49.1
East_Aveb	A216	50	179.73	-47.95
East_Aveb	A216	100	181.08	-47.66
East_Aveb	A216	150	180.56	-48.38
East_Aveb	A216	200	180.5	-47.99
East_Aveb	A216	250	181.89	-48.27
East_Aveb	A216	266.5	181.41	-48.55
East_Aveb	A216	300.0	181.6	-48.2
East_Aveb	A216	350.0	182.0	-48.0
East_Aveb	A216	400.0	182.5	-47.0

Raw data (uncorrected single shot camera readings) :

East_Aveb	A216	50.0	184.2	-48.4
East_Aveb	A216	100.0	223.2	-48.3
East_Aveb	A216	150.0	178.2	-48.8
East_Aveb	A216	200.0	174.2	-48.4
East_Aveb	A216	250.0	No survey	No survey
East_Aveb	A216	300.0	161.2	-48.9
East_Aveb	A216	350.0	161.2	-48.1
East_Aveb	A216	400.0	183.0	-46.6

Comments

A216 was drilled to test Saxon/East Avebury mineralisation at depth nominally on-section at 355100mE
The hole targeted a magnetic anomaly and an interpreted northern lobe of the East Avebury-Bison host ultramafic.

Significant Intersections

No significant assays.

Hole Sizes

From	Size
0.0	PQ collar
3.0	HQ2
171.4	NQ2

Drilled By

Boart Longyear

Analyses By

BRL

Hole drilled with BLY LF90 rig; drilling commenced on 14/09/07; hole completed on 01/10/07; hole reamed at collar with PQ over HQ for installation of HWT casing.

Gyro survey completed by NES on 26/09/07 to 266.5m.

Alliance Metals Drill Log

Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A216	0.0	3.0		LOSS				NR			No core recovery; surficial overburden zone, drilled with HQ2 reamed to PQ for installation of collar pipe; complete oxidation.
East_Av	A216	3.0	5.0		LOSS				NR			No core recovery; total core loss in surficial clay zone; complete oxidation.
East_Av	A216	5.0	8.0	Cba	CLAY		O2	0.00	NR			Very strongly weathered, partially to completely oxidised, soft to very soft, totally fragmented, light to mid orange, orange-brown, weakly ferruginous clay and saprolite rock; remnant micro-fractured texture locally preserved; 2.7m of complete core loss recorded by driller in run; down hole contact not preserved in core.
East_Av	A216	8.0	15.5	Cba	CLAY		O3	0.00	NR	BD	55	Very strongly weathered, partially to completely oxidised, soft to very soft, very broken to fragmented, mid orange to orange-brown, weakly ferruginous clay and saprolite rock, probably after volcanoclastic siltstone; remnant micro-fracturing and irregular remnant bedding; sparse red-brown clay mottling; trace black Mn oxides infilling fractures and as dendritic coatings; major core loss zones.
East_Av	A216	15.5	17.9	Cba	SSLT		C1	0.00	GD	BD	50	Strongly weathered, partially oxidised, soft, broken, micro-fractured, disrupted, light cream, mottled orange-brown, locally white, very fine-grained, silt-grade to shaley volcanoclastics; remnant planar to contorted bedding; common weakly ferruginous clay mottling and locally as near complete replacement; trace black Mn oxides coating joint planes; gradational weathering contact.
East_Av	A216	17.9	21.4	Cba	VBLM	Ac	G4	0.00	GD	BD	50	Weakly weathered, locally oxidised, moderately hard, broken, foliated, mid to dark green, mottled cream and orange-brown, altered, fine to medium-grained, mafic volcanoclastics, with possible minor flows intermixed; planar bedding in places, steepening down hole to 30 degrees to core axis; minor kaolinitic clay partially replacing around fractures; minor black-brown Fe oxides coating irregular fractures; core loss zones; gradational oxidation contact.
East_Av	A216	21.4	23.0		LOSS		C4	0.00	NR			Near total core loss zone; fragments of very weathered, oxidised, mid to dark cream, brown-cream, weakly ferruginous clay; common black Fe and Mn oxides as coatings and infilling fractures; down hole contact not recovered.
East_Av	A216	23.0	29.5	Cba	SHAL		N1	0.00	SP	BD	55	Weakly to moderately weathered, partially oxidised, moderately hard, laminated, light grey, banded to mottled cream, very fine-grained shale-siltstone dominant; lesser green, volcanoclastic siltstone and sandstone interbeds; well bedded.

Allegiance Metals Drill Log

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A216	29.5	38.0	Cba	VBVM	AcCh	G3	0.00	SI	BD	47	Weakly weathered to fresh, hard, broken, disrupted, mid green, banded cream to brown, altered, medium-grained, quartz-rich, vitric volcanoclastic sandstone; minor cream and green, very fine-grained shaley laminae and lenses; moderately foliated; irregularly bedded, with disrupted to planar laminations; weakly actinolite-chlorite altered; sparse ferruginous clay as coatings on joints and staining; clayey in patches; sharp irregular lithological contact.
East_Av	A216	38.0	52.5	Cba	VBLF	AcCh	G5	0.30	GL	BD	40	Generally fresh, hard, initially broken, micro-fractured, disturbed and disrupted, dark to very dark green, mottled cream-green, altered, fine-grained, lithic-rich, mafic volcanoclastics, with possible minor mafic flows intermixed; shale-rich zones near start of interval; silt-grade lithic-rich volcanoclastics near middle of interval, with well preserved planar bedding; strongly actinolite-chlorite altered; sparse diopside patches, probably skarn overprint; trace py. and po. as aggregates and thin veinlets, mainly associated with actinolite in shaley sub-units; gradational lithological change at contact.
East_Av	A216	52.5	55.1	Cba	GWAC	Ph	B5	0.00	BR	BD	47	Fresh, very hard, indurated, micro-fractured, dark brown to purple-brown, fine to very fine-grained, silt-grade wacke; irregular lenses of lithic-rich chip wacke; weakly phlogopitised; sparse actinolite-chlorite in late-stage veinlets and stringers; planar to disrupted bedding in silty to shaley sub-units; becoming very broken.
East_Av	A216	55.1	56.8	Cba	VBLF	Ac	G4	0.00	GL	BD	60	Fresh, hard, generally broken, disrupted, mid to dark green, grey-green, altered, fine-grained, lithic-rich, mafic volcanoclastics, with possible mafic flows or hyaloclastite intermixed; minor volcanoclastic wacke lenses; moderate pervasive actinolite alteration; planar bedding locally well preserved in finer sub-units; fining down hole; gradational lithological change at contact.
East_Av	A216	56.8	71.05	Cba	GWAC	Ph	B5	0.10	SP	BD	55	Fresh, hard to very hard, indurated, micro-fractured, well bedded, dark brown to purple-brown, fine to very fine-grained, silt-grade wacke; minor fragmented, cherty shale laminae and interbeds; irregular lenses of lithic-rich chip wacke; moderately phlogopitised; trace actinolite-chlorite as patchy alteration; well preserved planar planar in silty to shaley sub-units; rare trace py. and po. as blebs and aggregates; sharp planar down hole contact in well bedded silt-grade wacke.

Allegiance Metals Drill Log
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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A216	71.05	72.8	Cba	VBVF	Ac	G3	0.10	SI	BD	45	Fresh, hard to very hard, well bedded to disrupted, mid green, banded cream to brown, altered, fine to medium-grained, vitric volcanoclastic sandstone; minor cream and green, very fine-grained shaley laminae and brown wacke lenses; moderately foliated; planar bedding; some graded bedding; weakly actinolite chlorite altered; rare trace py. as blebs near down hole contact; sharp irregular lithological contact.
East_Av	A216	72.8	74.7	Ccarb	CARB		N3	0.50	DF	BD	45	Fresh, moderately hard, veined, micro-fractured, stylolitic, mid to dark grey, very fine-grained, impure limestone; bedded in places; minor carbonaceous partings and stylolites; minor calcite veins and stringers; sparse py. as blebs and small aggregates, concentrated at contact zones; trace magnetite as very fine-grained disseminations; rare trace sphalerite.
East_Av	A216	74.7	78.3	Ccarb	SKRN	DiAc	G4	1.00	GL	BN	52	Fresh, hard to moderately hard, veined, banded, mid to dark green-grey, khaki-green, fine to medium-grained, calc-silicate skarn, after impure limestone; minor to common veins and bands of diopside; grading from 77.4m to mid green, fine to very fine-grained, actinolitised, volcanoclastic siltstone and shale; sparse to minor po. and py. as disseminations, clots and aggregates in skarn; rare trace galena.
East_Av	A216	78.3	81.55	Cba	SHAL	Ph	P6	1.00	SI	BD	45	Fresh, hard to very hard, micro-fractured, massive to locally laminar, darkest purple to brown-purple, phlogopitised, very fine-grained shale-siltstone; very broken from start of interval to 78.5m; few planar to disrupted cream volcanoclastic shale laminae and streaks; sparse py. as clots and thin discontinuous stringers.
East_Av	A216	81.55	81.7		FALT		G5	0.00	VN	FT	60	Very soft, puggy to crumbly, light green clay, with very dark green, altered volcanoclastic, infilling fault zone; 3cm carbonate vein at down hole contact.
East_Av	A216	81.7	93.4	Ccarb	CARB	Mg	N2	0.05	BR			Fresh, moderately hard, veined, micro-fractured, stylolitic, mid grey, very fine-grained, impure limestone; minor carbonaceous stylolites and micro-fractures; sparse white-cream to green diopside veins and patches, as weak skarn overprint; minor calcite veins and stringers; minor to common magnetite as disseminations and blebs and as stringers in stylolites; trace po. as specks and small clots; leached at down hole contact.

Allegiance Metals Drill Log

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A216	93.4	94.0		LOSS				NR			Solution cavity in limestone; few fragments of leached limestone recovered.
East_Av	A216	94.0	97.5	Ccarb	CARB	DiMg	N3	0.20	DF			Fresh, moderately hard, micro-fractured, weakly veined, mid to dark grey, very fine-grained, metasomatised impure limestone; common light green-cream diopside skarn patches; sparse white calcite veins and veinlets; minor to common fine-grained magnetite interstitial as disseminations and scattered blebs; trace po. as specks and small clots; rare galena; leached zones from 94.9-95.1m and at down hole contact.
East_Av	A216	97.5	98.0		LOSS				NR			Solution cavity in limestone; total core loss zone.
East_Av	A216	98.0	100.4	Ccarb	CARB	MgDi	N3	0.30	SI			Fresh, moderately hard, micro-fractured, veined, mid to dark grey, very fine-grained, metasomatised impure limestone; common cream-grey to green diopside skarn at start; minor white calcite veins and stringers; minor to common fine-grained magnetite interstitial as disseminations; trace po. and pe. as blebs; leached, with ferruginous clay staining at down hole contact.
East_Av	A216	100.4	101.4		LOSS				NR			Solution cavity in limestone; total core loss zone.
East_Av	A216	101.4	103.5	Ccarb	CARB	MgDi	N3	0.20	NR			Fresh, hard, veined, micro-fractured, mid to dark grey, becoming cream, fine-grained, metasomatised impure limestone; common mottled cream to grey diopside skarn from 102.5m; minor white calcite veinlets and stringers; minor fine-grained magnetite interstitial as disseminations and euhedral specks; rare trace po. as blebs; leached, with weak ferruginous clay staining at contact.
East_Av	A216	103.5	108.8		LOSS				NR			Solution cavity in limestone; total core loss zone; some clayey sludge recovered.
East_Av	A216	108.8	113.4	Ccarb	CARB	Mg	N2	0.30	DF			Fresh, hard, indurated, micro-fractured, veined, light to mid grey, very fine-grained, impure limestone; broken at start of interval; sparse to minor white calcite veins and stringers, increasing with depth; minor fine-grained magnetite as scattered euhedral specks and as stringers and aggregates; trace po. and py. as blebs; rare trace pe. as clots; veined at down hole contact.
East_Av	A216	113.4	119.9	Ccarb	SKRN	DiAc	G3		BR			Fresh, moderately hard, massive, streaked to veined, mid green, mottled cream, becoming darkest grey, partly crystalline, medium-grained diopside-actinolite skarn; mgt.-rich at up hole contact; minor disseminated mgt.; sparse calcite vns.

Allegiance Metals Drill Log
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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A216	119.9	121.1		LOSS				NR			Solution cavity in skarn, after limestone; few fragments of decomposed, leached skarn recovered; some clay sludge.
East_Av	A216	121.1	121.9	Ccarb	SKRN	DiAc	N5	1.00	NR			Fresh, relatively soft, streaked to veined, very dark grey-black, mottled green and khaki, partly crystalline, medium to coarse-grained diopside-actinolite-talc skarn, after limestone; minor fine-grained mgt. interstitial and as aggregates; sparse po. as blebs and irregular small aggregates.
East_Av	A216	121.9	132.0		LOSS				NR			Solution cavity in skarn, after limestone; few fragments of very soft, puggy clay and decomposed calc-silicate skarn; NQ2 drilling abandoned; hole reamed and HQ2 drilling recommenced, with core recovery from 131.0m.
East_Av	A216	132.0	134.05	Ccarb	SKRN	AcDi	G4	0.50	DF			Initially very soft, decomposed, becoming fresh, hard, massive, dark green, blue-green, mottled light green-cream, fine to medium-grained, actinolite-diopside skarn, probably after impure limestone; clayey, with some Fe oxide staining, at start; common 15-20% fine-grained mgt. interstitial and as stringers and veinlets; trace po. and ?pe. as specks and clots; rare trace cpy. as dispersed aggregates.
East_Av	A216	134.05	138.85	Cba	LBPM	Ac	G5	0.00	BR			Fresh, hard, massive, locally ophitic, dark to very dark green, mottled cream and light green, fine to medium-grained, actinolitised mafic intrusive or volcanics; pervasive texturally destructive actinolite-chlorite alteration; patchy diopside-?epidote overprint; trace calcite-quartz veinlets; broken at down hole contact.
East_Av	A216	138.85	158.0	Cba	VBLB	AcCh	G3	0.00	SI	BD	45	Fresh, hard to very hard, indurated, disturbed to disrupted, mid to dark green, mottled and streaked cream, fine to coarse-grained, actinolitised mafic volcanoclastics dominant; common fawn to purple-brown, cherty shale bands, streaks and lenses; possible minor mafic flow material intermixed; disturbed, contorted to fragmented bedding; patchy actinolite-chlorite alteration; rare trace calcite veinlets; sharp irregular lithological contact.
East_Av	A216	158.0	163.95	Cba	LBLB	ChAc	G4	0.00	SI			Fresh, hard, micro-fractured, disturbed to disrupted, dark green, locally brown, coarse-grained, actinolitised mafic volcanic breccia; large 5-6cm, sub-rounded, chlorite-rimmed volcanic fragments in finer actinolite-diopside altered groundmass; small scale pillow-like structures in places; indistinctly bedded throughout.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A216	163.95	168.0	Cba	VBLF	Ac	G2	0.00	SP	BD	55	Fresh, hard to very hard, indurated, disturbed to disrupted, light to mid green, locally streaked and banded cream, fine to coarse-grained, actinolitised mafic volcanics dominant; common cream to fawn, cherty shale bands and lenses; possible minor mafic flow material intermixed; disturbed, contorted bedding, rarely planar; patchy actinolite-diopside alteration; rare trace quartz-axinite veinlets; sharp planar lithological contact.
East_Av	A216	168.0	172.9	Cba	LBPF	Ac	G5	0.00	SP			Fresh, hard, massive, locally veined, dark to very dark green, fine-grained, actinolitised mafic volcanics or possibly volcanoclastics; indistinctly bedded; moderate pervasive actinolite alteration; trace cream alteration mineral as small scattered clots; trace calcite-quartz veinlets; weakly foliated at down hole contact.
East_Av	A216	172.9	173.2		FALT		W1	2.00	SI	FT	25	Hard to moderately soft, broken, laminated, white calcite vein, infilling fault; common grey-black sheared wallrock as streaks and clasts; twinned carbonate as crystal intergrowths; minor py. and ?melnikovite aggregates; trace apy. as blebs; fault contacts and shearing at 25 degrees to core axis.
East_Av	A216	173.2	207.2	Cba	IBPM	Ac	G4	0.00	SP			Fresh, hard, massive, locally veined, dark green, fine-grained, actinolitised, mafic intrusive or possibly volcanics; coherent, generally massive, with vague irregular compositional banding in places; moderate pervasive, texturally destructive actinolite-tremolite alteration; possible relict fine to medium-grained ophitic textures in places; trace cream alteration mineral as small scattered overgrowths and clots; sparse cream to pink quartz patches; trace calcite microveins; trace dark green chlorite coating fractures; sharp down hole contact.
East_Av	A216	207.2	207.35		FALT		G3	0.00	SP	FT	52	Moderately hard to relatively soft, strongly veined, mid green, actinolitised, fine-grained mafic wallrocks, with common white calcite veins, stringers and veinlets; 2-3cm carbonate veins at 52 degrees to core axis at fault contacts.
East_Av	A216	207.35	214.65	Cba	IBPF	AcSi	G4	0.00	DF			Fresh, hard to very hard, massive, locally brecciated, dark green, fine-grained, actinolitised mafic intrusive or possibly volcanics; moderate to strong pervasive, texturally destructive actinolite alteration; minor silica flooding in patches; fragmental to brecciated textures in patches; sparse actinolite skarn overprint.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A216	214.65	233.4	Cba	SKRN	AcDi	G5	0.20	SP			Fresh, hard to moderately hard, massive to disrupted, veined, dark to very dark green, streaked light green and cream, fine to medium-grained, actinolite-rich calc-silicate skarn, after mafic intrusive or volcanics; strong pervasive, texturally destructive actinolite alteration; common diopside-tremolite in vein form and as streaks and patches, possibly with trace axinite; trace white carbonate as late stage veins and veinlets; trace po. as blebs and aggregates; locally broken to sheared, with dark green chlorite coating fractures.
East_Av	A216	233.4	248.3	Cba	VBVF	AcDiCb	G4	0.00	SP	BD	40	Fresh, hard to moderately hard, locally indurated, disturbed to disrupted, mid to dark green, mottled to streaked cream, actinolitised, fine-grained mafic volcanoclastics dominant; minor cream to fawn, cherty shale lenses; generally massive, rarely with disturbed to fragmented bedding preserved; patchy to pervasive actinolite-tremolite alteration; common cream to lightest green diopside-carbonate patches, representing skarn overprint; trace carbonate veinlets.
East_Av	A216	248.3	252.5	Cba	SSLT	Si	C2	0.00	VN			Fresh, broken, hard to very hard, indurated, light to mid cream, fawn, very fine-grained, cherty, volcanoclastic siltstone-shale; massive to micro-fractured, indistinctly bedded; increasingly disturbed to fragmented, with soft, puggy clay infilling fractures and partially replacing; trace carbonate matrixed breccia veins.
East_Av	A216	252.5	269.95	Cba	VBPF	AcDi	G6	0.00	SP	BD	35	Fresh, hard to moderately hard, initially broken, becoming massive to disrupted, darkest green, locally streaked cream and fawn, fine-grained, actinolitised, mafic volcanoclastics or possibly volcanics; patchy to massive calc-silicate skarn overprint, dominantly actinolite-tremolite-carbonate, with minor diopside and possibly schorl; rare planar to disrupted bedding preserved; rare cherty shale lenses; tending to leached and clayey in and adjacent to fractures near start; becoming increasingly skarned; carbonate veinlets near down hole contact.
East_Av	A216	269.95	270.35		FALT	Cb	N5	0.00	VN	FT	32	Relatively soft, sheared, veined, darkest grey to black, chloritised, lithic breccia; common white, partly crystalline carbonate veins and patches; some crystal twinning in carbonate; very soft, light grey-cream clay infilling irregularly oriented veins and fractures; strong vein and shearing orientation at 32 degrees to CA.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A216	270.35	277.3	Cba	SSLT	SiDi	G4	0.00	SI	BD	45	Fresh, initially sheared and veined, becoming very hard, indurated, mid to dark green, mottled cream and light purple, cherty, fine-grained, volcanoclastic siltstone-shale; micro-fractured, disrupted, with poorly preserved bedding; strong texturally destructive silica-minor diopside-?axinite alteration, probably weak skarn overprint; sheared and veined near up hole contact; trace quartz-carbonate veins and veinlets; sharp irregular lithological contact.
East_Av	A216	277.3	316.0	Cba	LBPF	AcChDi	G5	0.00	SI	BN	37	Fresh, hard to moderately hard, veined, becoming disrupted to brecciated, very dark green to black-green, mottled and veined cream-green, fine to medium-grained, actinolitised, mafic volcanics or possibly volcanoclastics; very rare weak compositional banding; strong pervasive, texturally destructive actinolite-chlorite alteration; increasing late stage, vein form to breccia infill diopside-tremolite-minor carbonate alteration, possibly skarn overprint; sparse carbonate veins and stringers; trace quartz veins; increasingly disturbed, veined to brecciated near down hole contact.
East_Av	A216	316.0	317.35		FALT	AcDi	G5	0.00	SP	FT	43	Moderately hard, sheared, veined, darkest green, mottled and streaked cream to light green, actinolite-chlorite-diopside altered proto-mylonite; very soft, puggy clay matrixed breccia from 317.1-317.35m; sharp planar shear at down hole contact, coated with slickensided carbonate.
East_Av	A216	317.35	324.65	Cba	LBPF	AcCh	G5	0.00	BR			Fresh, hard to moderately hard, fractured, veined, very dark green, streaked and veined light to mid green, fine to medium-grained, actinolitised, mafic volcanics or volcanoclastics; intensely micro-fractured and veined, with light green actinolite-tremolite infilling; possible weak skarn overprint; very strong pervasive actinolite-chlorite alteration; trace calcite stringers and veinlets, some with quartz; minor chlorite coating fracture planes; becoming broken down hole.
East_Av	A216	324.65	325.0		FALT	AcDiCh	G2	0.00	BR	FT	55	Soft, broken, tending to crumbly, light to mid green, clay matrixed, lithic breccia; several smooth, waxy, slickensided shear planes, with brown chloritic coatings; depth limits uncertain due to core loss.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A216	325.0	343.0	Cba	LBPM	AcChD	G4	0.00	BR			Fresh, initially broken, moderately hard, fractured, veined, dark to very dark green, streaked and veined light cream to mid green, medium-grained, actinolitised, mafic volcanics or possibly volcanoclastics; very strong pervasive actinolite-tremolite-chlorite matrix alteration; very weak compositional banding in places; intensely micro-fractured and veined, with light green actinolite-tremolite-diopside infilling; possible weak skarn overprint; sparse quartz stringers; trace carbonate veinlets; few thin chloritic to clayey shears; veined and sheared near down hole contact.
East_Av	A216	343.0	347.3		FALT	Ch	B2	0.00	SP	FT	60	Soft to very soft, tending to clayey, broken to fragmented, sheared, veined, light to mid brown-grey, mid green, veined cream, protomylonite; some dark green, altered, chloritic volcanics or volcanoclastics, possibly wallrocks in core of major fault zone; very strong pervasive chlorite-tremolite alteration throughout, with vein form diopside overprint; very soft, tending to puggy, clay matrixed, quartz breccia from 347.1-347.3m; sparse white calcite stringers and microveins; sharp planar shear plane at down hole contact.
East_Av	A216	347.3	392.7	Cdg	SSLT		N2	0.10	DF	BD	75	Fresh, hard to very hard, locally veined, well bedded, mid grey, purplish grey to green-grey, very fine-grained, siliceous siltstone dominant; regular interbeds and lenses of mid green, fine to medium-grained, quartz-lithic sandstone and wacke, generally 20-30cm thick and increasing in frequency down hole; bedding to core axis angles gradually steepening down hole; some grading, facing down hole; flaser bedding in some lenses; trace white carbonate veins and stringers; rare trace po. and ?sphalerite aggregates in veins; thick quartz-rich chip wacke lenses near down hole contact.
East_Av	A216	392.7	401.0	Cdg	CONG		G4	0.00		BD	40	Fresh, hard to very hard, massive, rarely veined, mid green, green-grey, mottled and streaked cream, coarse to very coarse-grained, polymictic, lithic granule to pebble conglomerate; initially weakly altered, quartz-rich, siliceous; becoming strongly polymictic, with quartz, siltstone and volcanic clasts, up to 30-40mm in diameter; actinolite-chlorite altered matrix; rare bedding laminae. EOH at 401.0m confirmed.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
East_Av	A217	0.0	2.5		LOSS				NR			No core recovery; surficial overburden zone, drilled with HQ2 reamed to PQ for installation of collar pipe; complete oxidation.
East_Av	A217	2.5	4.5	Cba	CONG		G2	0.00	BR			Moderately to strongly weathered, partially oxidised, overdrilled, rubbly, light to mid green, coarse-grained, polymictic pebble conglomerate; possibly not in situ; partially replaced by orange-brown, weakly ferruginous clay; broken to very broken core; depth of down hole contact uncertain due to core loss.
East_Av	A217	4.5	5.75	Cba	CONG	Ac	G4	0.00	NR			Moderately to strongly weathered, partially oxidised, mid to dark green, fine to coarse-grained, polymictic pebble conglomerate and sandstone; clayey, weakly ferruginous; very broken at start and end of interval; contact in broken ground.
East_Av	A217	5.75	8.3	Cba	CONG		B2	0.00	NR			Strongly weathered, partially to completely oxidised, clayey, initially fragmented, light to mid brown, orange-brown to grey-green, very coarse-grained, polymictic conglomerate; minor silty to shaley lens near middle; common weakly ferruginous clay staining and partially replacing; sub-angular to sub-rounded lithic clasts up to 20-25mm in diameter; matrix supported conglomerate.
East_Av	A217	8.3	17.9	Cba	CONG	Ac	G3	0.00	BR			Moderately to weakly weathered, partially oxidised to relatively fresh, hard to very hard, massive, mid green, grey-green, very coarse-grained, matrix supported, polymictic pebble to cobble conglomerate; indistinctly bedded; sub-angular to well rounded lithic clasts up to 70mm in diameter; weakly ferruginous clay as staining and partially replacing in places; conglomerate becoming closer packed down hole; broken to very broken in patches; down hole contact not recovered.
East_Av	A217	17.9	20.0		LOSS				NR			Total core loss zone; depth limits uncertain.
East_Av	A217	20.0	28.1	Cba	CONG		B4	0.00	NR			Moderately to strongly weathered, partially oxidised, soft to very soft, tending to clayey, mid to dark brown, orange-brown, coarse-grained, matrix supported, polymictic pebble conglomerate; indistinctly bedded; conglomeratic texture obscured by ferruginous clay replacement in places; minor actinolite-chlorite alteration in fresher conglomerate; sparse black-brown Fe + Mn oxides as thin coatings on irregular fractures and as dendritic growths; broken to fragmented core at down hole contact.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A217	28.1	35.0	Cba	CONG	Si	N2	0.00	SI	BD	70	Moderately to strongly weathered, locally relatively fresh, broken, micro-fractured, in places massive, brown, orange-brown to light grey, coarse-grained, close packed, polymictic pebble conglomerate; very hard, siliceous conglomerate in patches; generally indistinctly bedded; possible planar bedding in shaley interbed near down hole contact; common ferruginous clay partially to completely replacing conglomerate matrix; minor brown-black Fe + Mn oxides coating fractures.
East_Av	A217	35.0	39.8	Cba	SSLT		B2	0.00	BR			Moderately weathered to relatively fresh, broken, jointed, micro-fractured, cream, light to mid brown-grey, very fine-grained, volcanoclastic siltstone to shale; very broken to fragmented, blocky core in places; indistinctly bedded; partially oxidised with orange-brown, weakly ferruginous clay coating fractures; tending to clayey in patches; very broken core at down hole contact.
East_Av	A217	39.8	43.6	Cba	LBPf	AcCh	G4	0.00	BR			Fresh, broken, hard to relatively soft, dark green, altered, fine to medium-grained, mafic volcanics or possibly volcanoclastics; lithology obscured by fragmentation of core and patchy, clay alteration; very strong pervasive actinolite-chlorite alteration throughout; dark green-black chlorite as coatings on joints; core totally fragmented from 43.0m; depth of contact uncertain due to core loss.
East_Av	A217	43.6	44.95		LOSS				NR			Core loss zone; near complete loss; rubbly, fragmented core pieces only.
East_Av	A217	44.95	55.8	Cba	SSLT	PhSi	P5	0.30	DF	BD	30	Fresh, hard to very hard, broken, indurated, disturbed to disrupted, dark to very dark purple-brown, grey, fine to very fine-grained, cherty siltstone dominant; lesser micro-fractured, grey-cream, cherty siltstone as irregular interbeds and lenses; minor altered volcanoclastics; bedding poorly preserved, contorted to fragmented; moderate pervasive phlogopite alteration; trace po. + py. as blebs and small aggregates, increasing near down hole contact; diffuse lithological change.
East_Av	A217	55.8	57.6	Cba	VBVF	AcCh	G3	2.00	GD			Fresh, hard, disturbed, in places massive, mid to dark green, altered, fine to medium-grained, silt-grade volcanoclastics; indistinctly bedded, with fragmented shaley laminae near down hole contact; strong pervasive actinolite alteration throughout; sparse to minor po. as aggregates and stringers; siliceous, cherty at down hole contact, with gradational lithological change.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A217	57.6	62.9	Cba	SSLT	Ph	P5	0.50	SI	BD	35	Fresh, hard to very hard, broken, indurated, disturbed to disrupted, dark to very dark purple-brown, fine to very fine-grained, cherty siltstone; minor lenses of dark green, actinolitised, mafic volcanoclastics; few disturbed to planar bedding laminae; moderate pervasive phlogopite alteration; trace py. + po. as blebs; very broken to totally fragmented core from 60.3m; core loss zones recorded by driller.
East_Av	A217	62.9	67.1	Cba	LBPF	AcDiAx	G4	0.00	DF			Fresh to leached, tending to clayey, relatively soft, broken, mid to dark green, mottled cream to olive green, altered, fine to medium-grained, mafic volcanics or possibly volcanoclastics; indistinctly bedded; strong pervasive actinolite-chlorite alteration; common diopside-sparse axinite in irregular patches, probably skarn overprint; very soft, clayey, decomposed patches; diffuse lithological contact.
East_Av	A217	67.1	75.25	Cba	IBPM	AcQz	G3	0.00	NR			Fresh, hard, broken, veined, massive, mid green, locally streaked dark green, medium to coarse-grained, mafic intrusive or possibly volcanics; remnant ophitic texture, largely obscured by strong pervasive actinolite-tremolite alteration; minor quartz replacing in groundmass; minor aggregates and patches of cream ?diopside; trace quartz-carbonate veins and very thin veinlets locally; possible vugh, with minor loss, at down hole contact.
East_Av	A217	75.25	88.0	Cba	LBPF	AcCh	G5	0.00	SI			Fresh, hard, massive, dark to very dark green, altered, fine-grained, mafic volcanics or possibly volcanoclastics; common mottled, cream to grey streaks and patches of very fine-grained, cherty ?volcanics, overprinted by quartz-diopside-sparse ?axinite skarn; breccia-like textures in places, possibly an alteration effect; leached, chloritic, vughy zone from 79.55-79.65m; increasing skarn overprint down hole; sharp irregular lithological contact.
East_Av	A217	88.0	96.05	Cba	SKRN	DiSi	G1	0.00	SI			Fresh, hard, massive, lightest green, grey, mottled fawn-cream, fine to medium-grained, siliceous, diopside-minor actinolite skarn; complex calc-silicate facies, probably after calcareous volcanoclastics or impure limey sub-unit; sparse light olive green, crystalline ?garnet or pyroxene as irregular aggregates; tending to leached around few discontinuous fractures near down hole contact.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A217	96.05	97.6	Cba	LBPf	AcCh	G6	0.00	DF			Fresh, massive, locally micro-fractured, very dark green, very fine-grained, mafic volcanics or possible hyaloclastite; possible small scale pillow-like structure in places; strong pervasive actinolite-chlorite alteration; weak diopside skarn overprint in patches; trace carbonate veinlets.
East_Av	A217	97.6	115.3	Cba	LBPB	AcChDi	G5	0.00	SI			Fresh, hard, massive, locally veined, dark to very dark green, green-black, mottled cream, altered, fine to coarse-grained, mafic volcanics or possibly volcanoclastics; strong pervasive, texturally destructive actinolite-chlorite alteration; common patches of very hard, cream-grey to white, siliceous diopside skarn overprint; possible remnant primary brecciated textures; some reaction rimming of clasts; trace quartz and white carbonate veinlets; very sharp down hole contact.
East_Av	A217	115.3	128.25	Csu	SKSP	DiSi	G1	0.30	SI			Fresh, hard to very hard, massive, lightest green, mottled to streaked cream, light to mid green-cream, fine to medium-grained, diopside-tremolite-quartz skarn, probably after ultramafic or proximal volcanics; rare discontinuous stylolite-like micro-fractures; possible chrome diopside intergrowths; thin serpentinite zones from 125.23-125.53m and 125.92-126.17m, with interstitial mgt. and minor pe.+ po. blebs; minor soft black-brown mineral, possibly sphalerite, as small subhedral blebs dispersed throughout skarn; sharp irregular down hole contact.
East_Av	A217	128.25	131.8	Csu	SERP	DiMg	G4	5.00	SI			Fresh, moderately hard, massive to micro-fractured, mid to dark blue-green to grey, very fine-grained, diopside-tremolite-serpentine skarn, with patches to massive zones of black, very fine-grained serpentinite; common 20-25% fine-grained mgt. interstitial and as fine veinlets; minor conspicuous pe. + po. as small aggregates and blebs, concentrated in black serpentinite.
East_Av	A217	131.8	134.65	Csu	SKSP	Di	G1	1.00	DF			Fresh, hard to very hard, massive, micro-fractured, lightest green, green-cream, fine, diopside-tremolite-quartz skarn, after ultramafic; frequent discontinuous stylolite-like micro-fractures; minor black serpentine-mgt. streaks, patches and in micro-fractures; minor soft, black sub-metallic mineral as dispersed blebs and fine specks; minor 5-10% mgt. interstitial; sparse po. + pe. as aggregates and stringers, mostly confined to fractures; diffuse lithological change at contact.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A217	134.65	140.35	Csu	SERP	Mg	N6	7.00	DF			Fresh, hard to moderately hard, massive, rarely micro-fractured and veined, black, green-black, very fine-grained serpentinite; minor patches of grey to blue-green, diopside-mgt. skarn; common 20-25% fine-grained mgt. interstitial; minor to common conspicuous pe. + po. as blebs, specks and aggregates, locally multi-phase intergrowths; dark green serpentinite at down hole contact, with very thin carbonate-chrysotile veinlets.
East_Av	A217	140.35	153.65	Cba	VBVF	SiAcCh	G3	0.00	VN	BD	45	Fresh, very hard, indurated, disturbed and disrupted, mid to dark green, becoming purple-grey, altered, silt-grade volcanoclastics dominant; frequent disrupted to fragmented, light cream to green-cream, cherty, volcanoclastic shale laminae and patches; weak actinolite-diopside skarn overprint and veining at up hole contact; moderate pervasive actinolite-chlorite alteration of silty sub-units; silicification throughout; rare planar bedding preserved; trace carbonate veinlets.
East_Av	A217	153.65	154.95	Csu	SKSP	DiSpMg	N4	2.00	DF			Fresh, hard to very hard, streaked, micro-fractured to increasingly massive, dark grey, black to cream-grey, very fine-grained diopside-serpentine-mgt. skarn, after ultramafic; abundant 30-35% fine mgt. interstitial and as semi-massive patches; sparse to minor po. + pe. as blebs and specks disseminated throughout.
East_Av	A217	154.95	156.35	Csu	SERP	MgSc	N5	0.50	BR			Fresh, moderately hard, micro-fractured, veined, black to dark waxy green, ultra fine-grained serpentinite; abundant 30% fine mgt. interstitial and as blebs; strongly magnetic core; sparse chrysotile in very thin veinlets; trace po. + pe. as blebs and specks; some grey puggy clay zones.
East_Av	A217	156.35	156.9		FALT		N4	0.00	NR	FT	55	Moderately leached, very soft, tending to puggy, dark grey to green-grey clay; decomposed breccia infilling fault zone; irregular shear planes.
East_Av	A217	156.9	164.4	Csu	SERP	MgSc	G6	0.30	SP	FT	55	Fresh, moderately hard, micro-fractured, veined, darkest green to black, very fine-grained serpentinite; common 20-25% fine mgt. interstitial and as blebs and stringers; strongly magnetic core; sparse white chrysotile-carbonate in very thin veinlets and fractures; trace po. + pe. as small blebs and specks; several very soft, tending to puggy clay filled shears, with core loss apparent.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A217	164.4	166.3	Csu	LOSS		G5	0.20	SP	BN	60	Fresh, moderately hard, very broken to totally fragmented, banded, very dark green, streaked black, very fine-grained serpentinite; major core loss zone; common 15-20% fine-grained mgt. interstitial and as thin streaks; trace po. as small blebs; clayey in patches; slickensided serpentine-coated fractures.
East_Av	A217	166.3	171.5	Cba	SKRN	AcDi	N4	0.50	DF	BN	35	Fresh, moderately hard, jointed, veined, banded, dark grey, very dark blue-green, locally brown, fine-grained, actinolite-diopside-tremolite skarn; probably after ultramafic proximal volcanoclastics, with thin skarned serpentinite zones; remnant bedding laminae from 169.0m; minor white carbonate-chrysotile veins and thin veinlets; trace po. as specks; thin brown-buff, carbonate matrixed breccia in fault from 168.2-168.3m; diffuse lithological change at contact.
East_Av	A217	171.5	185.8	Cba	VBPF	AcPh	G5	0.10	SI	BD	32	Fresh, hard to very hard, disrupted, locally bedded, dark to very dark green, grey-green to brown, altered, silt-grade volcanoclastics; rare planar bedding preserved; strong pervasive actinolite-tremolite alteration throughout; patchy, increasing texturally destructive phlogopite, with vein-like actinolite-tremolite alteration in coarser grained volcanoclastic wacke lenses; very disturbed, qtz. veined patches; rare trace py. as small specks on fracture planes.
East_Av	A217	185.8	220.5	Cba	SSLT	Ph	N5	0.20	SP	BD	40	Fresh, hard to very hard, disturbed to disrupted, veined, locally bedded, darkest grey to black-grey, fine-grained siltstone; strongly deformed in places, with complex intersecting qtz. veining; some sygmoidal qtz. gash veins; weak to moderate pervasive phlogopite alteration; overall massive, indistinctly bedded; very rare bedding laminae preserved; rare shaley laminae and interbeds, with contorted bedding, near down hole contact; trace po. as clots mainly within qtz. veins; trace actinolite-tremolite as vein-like streaks.
East_Av	A217	220.5	228.25	Cba	LRXF	PhAc	B5	0.10	VN			Fresh, hard, disrupted, veined, speckled, dark to very dark brown, mottled reddish-brown, altered, fine-grained ?rhyolitic volcanic dominant; minor deformed, siliceous shale-siltstone at contacts; strong pervasive, texturally destructive phlogopite alteration; moderate vein-like, green actinolite-tremolite overprint; sparse qtz. veinlets and stringers in shaley sub-units; rare trace po. as specks in qtz. veins.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A217	228.25	231.8	Cba	SSLT	Ph	N5	2.00	GL			Fresh, hard to very hard, disturbed to disrupted, veined, darkest grey, black to brown-grey, fine-grained siltstone; strongly deformed, with complex intersecting qtz. veining; weak to moderate pervasive phlogopite alteration; overall massive, indistinctly bedded; sparse po. as small blebs and aggregates, mainly associated with qtz. veins; trace py. as small crystals on fracture planes; fragmented to brecciated at down hole contact.
East_Av	A217	231.8	240.5	Cba	VRVF	AcPh	B4	0.00	DF			Fresh, hard to very hard, massive to micro-fractured, speckled, dark brown to dark green, altered, fine-grained ?rhyolitic volcanics or possibly volcanics; minor fragmented cherty shale-siltstone in patches; strong pervasive, texturally destructive phlogopite-?Kspar alteration; moderate vein-like to semi-pervasive, green actinolite-tremolite overprint; odd small orbicular overgrowths of unidentified alteration mineral in patches; diffuse, gradational lithological change.
East_Av	A217	240.5	252.3	Cba	VBVF	Ac	G5	0.00	VN	BD	17	Fresh, very hard, indurated, disturbed and disrupted, dark to very dark green, locally streaked cream-green, altered, silt-grade, mafic volcanics dominant; minor fragmented cherty shale laminae and interbed; strong pervasive, texturally destructive actinolite-tremolite alteration; patchy brown ?Kspar alteration of possible thin rhyolitic flows; sparse qtz. and trace carbonate as veins and thin veinlets; qtz. veining, with some breccia, at 45 degrees to core axis at contact.
East_Av	A217	252.3	265.0	Cba	LBPM	AcCh	G5	0.00	SP			Fresh, hard to very hard, massive, very dark green, locally mottled brown, altered, fine to medium-grained, mafic volcanics or possibly intrusive; possible thin, fragmented hyaloclastite in patches; strong pervasive, texturally destructive actinolite-tremolite-chlorite alteration; patchy brown phlogopite in places; original lithology and textures largely obscured; possible coarser ophitic zones; trace qtz. as veins and veinlets; rare breccia veins; sharp down hole contact at 50 degrees.
East_Av	A217	265.0	299.4	Cba	SSLT	Ac	G6	0.00	DF	BD	35	Fresh, hard to very hard, laminar to massive, very dark green, grey-green, altered fine to medium-grained, volcanoclastic siltstone; locally well bedded, with planar to contorted laminations, steepening down hole; moderate pervasive actinolite-chlorite + patchy phlogopite alteration; rare cherty shale lenses; local breccia.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A217	299.4	343.6	Cba	GWAC	PhAc	N5	0.00	VN	BD	30	Fresh, hard, massive, locally bedded, becoming veined, darkest grey, black-grey to green-grey, altered, fine to medium-grained, silt-grade to sandy, volcanoclastic wacke; rare chip wacke lenses; coarse scale bedding, with irregular planar to weakly contorted silty laminations; bedding gradually steepening down hole; strong pervasive, texturally destructive phlogopite alteration; locally coarse crystalline flakes of phlogopite on core surfaces; sparse actinolite-tremolite in vein like overprint towards down hole contact; trace quartz-carbonate stringers and veinlets; diffuse lithological change, with diopside vein overprint, at contact.
East_Av	A217	343.6	368.5	Cba	GWAC	PhAcDi	N4	0.00	SP			Fresh, hard to moderately hard, veined, very dark grey-black to blue-green, locally brown, altered, fine-grained, dominantly silt-grade volcanoclastic wacke; massive to very weakly foliated, with no bedding preserved; very strong pervasive, texturally destructive phlogopite-actinolite alteration; locally coarse crystalline flakes of phlogopite on core surfaces; common white to lightest green diopside in veins, probably incipient skarn overprint; trace mgt. as specks in some diopside veins and patches; broken core from 362.1-364.5m, with chlorite coated fracture planes and thin ductile shears; very rare trace ?pe. blebs irregularly disseminated.
East_Av	A217	368.5	368.7		FALT	Di	C3	0.00	VN	FT	30	Fresh, moderately hard, irregularly banded, light to mid cream-grey, fine-grained, partly crystalline diopside-tremolite-?axinite vein infilling fault; streaks of darkest black-green actinolite-chlorite; banded veining at down hole contact.
East_Av	A217	368.7	380.3	Cba	VBPF	AcPhDi	G5	0.10	SI	BN	35	Fresh, hard, massive, locally veined to banded, very dark green to brown, altered, fine to medium-grained, mafic volcanoclastic or possibly a very altered micro-gabbro; extremely strong pervasive, texturally destructive actinolite-phlogopite alteration throughout, locally with very fine-grained mgt. as interstitial specks; sparse diopside-tremolite as irregular veins and stringers in patches; weak compositional banding in places; becoming finer grained from 379.2m, possibly a chilled contact zone; original lithology uncertain.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A217	0.0	397.8	Cba	GABB	AcDiCh	G4	0.05	SI	BN	40	Fresh, hard, massive, equigranular, in places strongly veined, dark green, green-grey, darkest green-black, altered, fine to medium-grained, mafic intrusive or possibly volcanic; locally very fine-grained and massive; rare compositional banding; very strong pervasive, texturally destructive actinolite-chlorite-sericite alteration; minor to common light cream-white diopside alteration in veins and stringers, probably incipient skarn overprint; trace quartz microveins; rarest trace po. as blebs; weak patchy brown phlogopite alteration near down hole contact.
East_Av	A217	397.8	419.8	Cba	GWAC	PhAc	B5	0.00	BR	BD	60	Fresh, hard to very hard, veined, bedded, very dark brown, streaked and mottled dark green, altered, fine-grained, dominantly silt-grade volcanoclastic wacke; minor micro-faulted to planar laminae of cherty shale; very strong pervasive texturally destructive phlogopite alteration; common intersecting veins and veinlets of green actinolite-tremolite overprinting; minor dark green, actinolite-chlorite altered mafic flows or minor intrusions; rarest trace cpy. as minute specks in some late stage actinolite-diopside veins; brecciated at contact.
East_Av	A217	419.8	420.2		FALT	Di	C1	0.00	SI	VN	65	Weakly leached, initially soft, tending to vughy, veined, light cream, lithic breccia infilling fault zone; minor vughy quartz veining near up hole contact; diopside matrix infilling breccia; some streaks and irregular stringers of chlorite-actinolite altered wallrock; diffuse down hole contact into relatively undisturbed rock.
East_Av	A217	420.2	425.35	Cba	VBVF	AcDiPh	G5	0.00	DF	BD	32	Fresh, hard to very hard, disturbed and disrupted, locally veined, very dark green, cream-green, altered, fine-grained, dominantly silt-grade volcanoclastic; minor micro-faulted to ruptured planar laminae of cherty shale; very strong pervasive actinolite-chlorite alteration; minor cream diopside altered patches, probably skarn overprint; becoming dark brown, phlogopite-actinolite altered from 422.9m; bedding well preserved throughout; diffuse lithological change at contact.
East_Av	A217	425.35	431.7	Cba	GABB	AcPh	B5	0.00	DF			Fresh, hard, massive, equigranular, locally veined, very dark brown and green, strongly altered, fine to medium-grained, mafic intrusive or possibly volcanic; very fine-grained and massive in places; very strong pervasive, texturally destructive phlogopite-?Kspar alteration; patchy diopside skarn overprint.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A217	431.7	474.5	Cba	SKRN	SeDiPh	N2	0.00	BR	BN	15	Fresh, moderately hard, massive, partly crystalline, in places veined, mid grey, brown-grey, becoming grey-black, fine to very coarse-grained, sericite-diopside-sparse magnetite skarn facies; atypical of ultramafic skarn; resembles an altered impure limestone, but no acid reaction; locally very coarse-grained, with large 5-12mm flakes of ?phlogopite, after pyroxene; crude compositional banding in places; broken to fragmented core in patches, with soft, waxy sericite coatings on fractures; sparse fine-grained mgt. interstitial, increasing near down hole contact; sparse cream diopside as veins and veinlets; trace zaratite as thin waxy coatings on undulating fractures at 473.25m; broken at down hole contact.
East_Av	A217	474.5	475.7		FALT		N3	0.00	SI	FT	60	Soft to very soft, tending to crumbly, clayey, light to mid grey, strongly sheared serpentinite; probably fault infill zone; several undulating smooth clayey shears; contorted in bands; undulating shear plane at down hole contact.
East_Av	A217	475.7	504.4	Csu	SERP	MgSc	G5	0.10	DF			Fresh, relatively soft, fractured, veined, locally sheared, very dark green, black-green, mottled and streaked olive green, fine to very fine-grained serpentinite; common blotchy aggregates of mid green to olive green, soft, altered serpentine, possibly after original olivine; common 20-25% fine-grained mgt. interstitial and locally as aggregates; minor fibrous, light grey to white serpentine-chrysotile as veins and infilling micro-fractures; sheared, tending to clayey, in patches; rare trace po. + pe. as blebs and dispersed clots; diffuse alteration front at contact.
East_Av	A217	504.4	509.6	Csu	SKSP	DiAcMg	G4	0.10	BR			Fresh, hard to moderately hard, massive, granular, locally veined, mid to dark green, blue-green to buff-brown, fine to medium-grained, diopside-actinolite-sparse magnetite skarn facies, after ultramafic; sparse carbonate veinlets; trace qtz. veins; 1-2% mgt. as disseminations and aggregates near contacts; rare trace po. and pe. as scattered aggregates; becoming finer grained, more massive and actinolite rich near down hole contact; broken core at contact.
East_Av	A217	509.6	554.5	Csu	SERP	Sc	G5	0.10	DF			Fresh, moderately hard, fractured, veined, becoming massive, very dark green, black-green, mottled and streaked olive green, fine-grained serpentinite; common blotchy aggregates of soft, altered serpentine; common mgt.; rare trace po. blebs.

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Project	BHID	From	To	Stratigraphy	Rock Type	Alteration	Colour	Visual S%	L.Cont.	Struct	BCA	Description
East_Av	A217	554.5	570.4	Csu	SERP	MgPo	N5	3.00	DF			Fresh, moderately hard, massive, rarely veined, black, darkest green-black, very fine-grained serpentinite; relatively sulphide rich zone; minor dispersed, ragged, blotchy aggregates of bluish green, soft, serpentine-talc; some reaction rimming; common 20-35% fine-grained mgt. interstitial and as scattered aggregates; sparse fibrous, light grey to white serpentine-chrysotile as veins, microveins and thin coatings on fracture planes; conspicuous minor po. + pe. as blebs, clots and scattered aggregates; diffuse mineralisation contact.
East_Av	A217	570.4	618.0	Csu	SERP	ScMg	G5	0.30				Fresh, moderately hard, massive, veined, very darkest green, black-green, very fine-grained serpentinite; common blotchy aggregates of light green, translucent, partly crystalline serpentine-talc-tremolite, some with reaction rimming; common 15-20% fine-grained mgt. interstitial and as scattered aggregates; sparse fibrous, light grey to white serpentine-chrysotile as veins, microveins and thin coatings on fracture planes; rare trace po. + pe. as blebs; increasing blotches of serpentine-tremolite with depth; serpentinite gradually becoming lighter coloured, ranging from green to grey and khaki. EOH at 618.0m confirmed.

