



DECEMBER - 2012 QUARTERLY REPORT

ATHENA RESOURCES LIMITED

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CONTACTS

Mr Ed Edwards
Managing Director

PROJECTS

Byro:

Iron Ore, Nickel-Copper-PGE's

Ashburton:

Gold

SECURITIES

122M Shares - AHN

SHAREHOLDERS

Mr E Edwards	12.48%
Ishine International	6.77%
Mr D Kelly	6.13%
Hon A Thomson	4.07%

HIGHLIGHTS

BYRO PROJECT – IRON ORE

- **CHANNALISED PISOLITES FOUND AT BYRO**
- **BYRO MAPPING OF HEMATITE OUTCROP HIGHLIGHTS HEMATITE IRON POTENTIAL**
- **IRON ORE ASSAY RESULTS FROM HEMATITE CAMPAIGN HIGH GRADE-LOW IN IMPURITIES**

High grades of up to 53.32% Fe in oxide

MBCR400	53.03% Fe
MBCR405	53.32% Fe
MBCR408	50.89% Fe

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BYRO PROJECT (Athena Resources 100%)

BYRO IRON ORE

During the December quarter the highly prospective and steadily growing Byro Iron Ore Project in the Mid-West region of Western Australia has been further expanded by the first hematite dedicated mapping campaign conducted in the region. Initial hematite mapping shows greater hematite cover and high assay grades received from sampling.

BYRO NORTH

Sample ID	Grade	Tenement
MBCR400	53.03% Fe	E09/1552
MBCR402	47.85% Fe	E09/1552
MBCR403	47.31% Fe	E09/1552
MBCR408	50.89% Fe	E09/1552

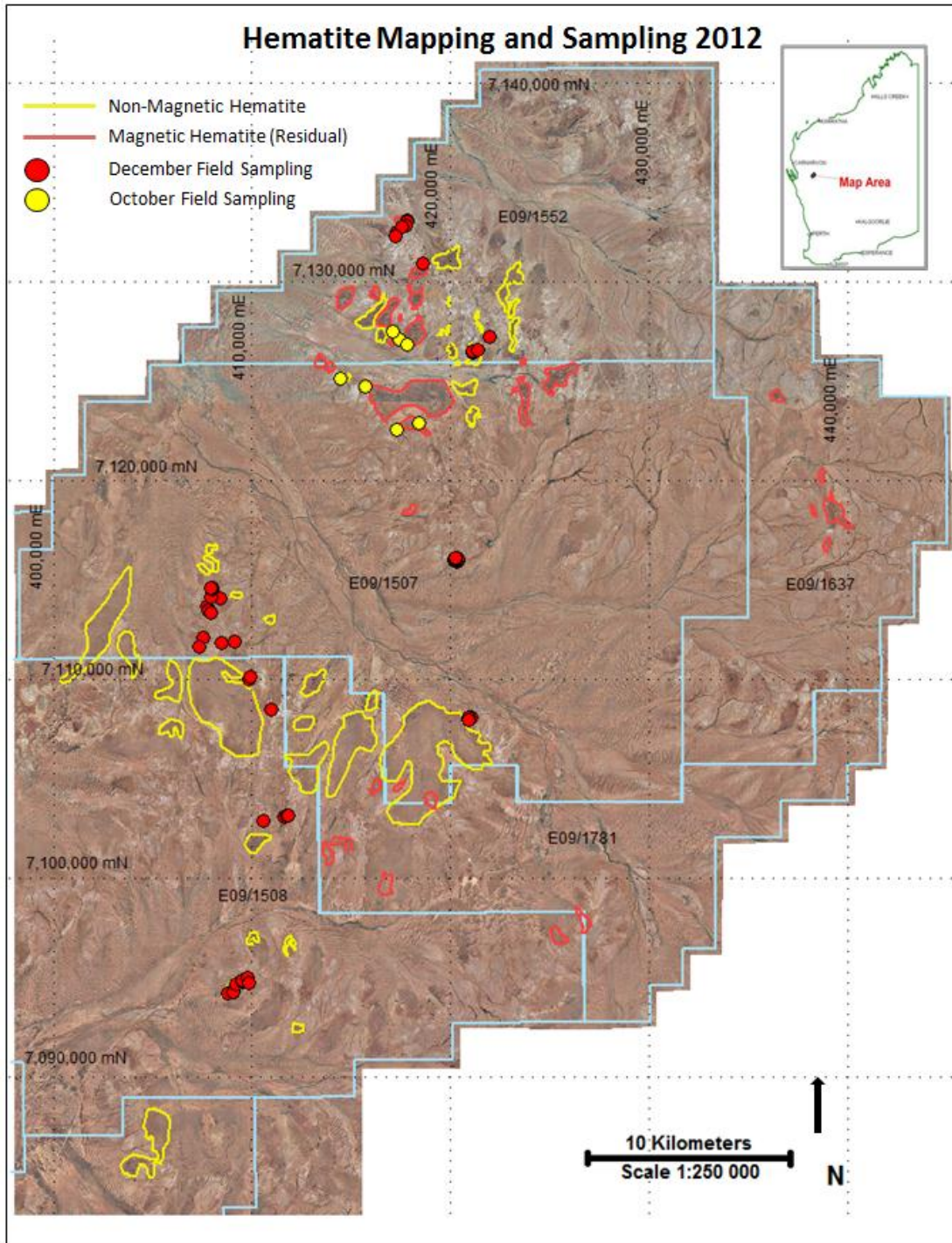
CENTRAL BYRO

Sample ID	Grade	Tenement
MBCR387	44.16% Fe	E09/1508
MBCR389	41.79% Fe	E09/1508
MBCR397	45.28% Fe	E09/1508
MBCR428	43.79% Fe	E09/1508

BYRO SOUTH

Sample ID	Grade	Tenement
MBCR416	41.06% Fe	E09/1507
MBCR418	42.76% Fe	E09/1507
MBCR421	43.94% Fe	E09/1507
MBCR424	47.89% Fe	E09/1507

Figure 1 Location Map showing mapping and Sampling Areas



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Details

The 2012 December quarter mapping and sampling program followed high iron assay results from sampling conducted at Byro East (announced 2011)

MBCR302 - 58.57%Fe, MBCR305 - 63.06 %Fe and MBCR304 - 68.28 % Fe

Large areas of untested nonmagnetic iron anomalies were mapped and sampled with initial results showing high grades. Average assay results are above 37%Fe and range up to 54% Fe. All samples had very low levels of detrimental impurities. The company has now expanded the exploration program to include active sampling and mapping of all nonmagnetic and magnetic ferrous targets.

Mapping in the December quarter revealed three common occurrences of hematite throughout the Byro Project.

- **Type 1:** Fluvial deposits of sub to well-rounded hematite pisolites.
- **Type 2:** Lateritic caps and concentrations with local transported halos near outcrop
- **Type 3:** Outcrop of both competent and brecciated massive hematite in BIFs, with local transported halos near outcrop.

Figure 2 Type 1 Hematite Pisolites

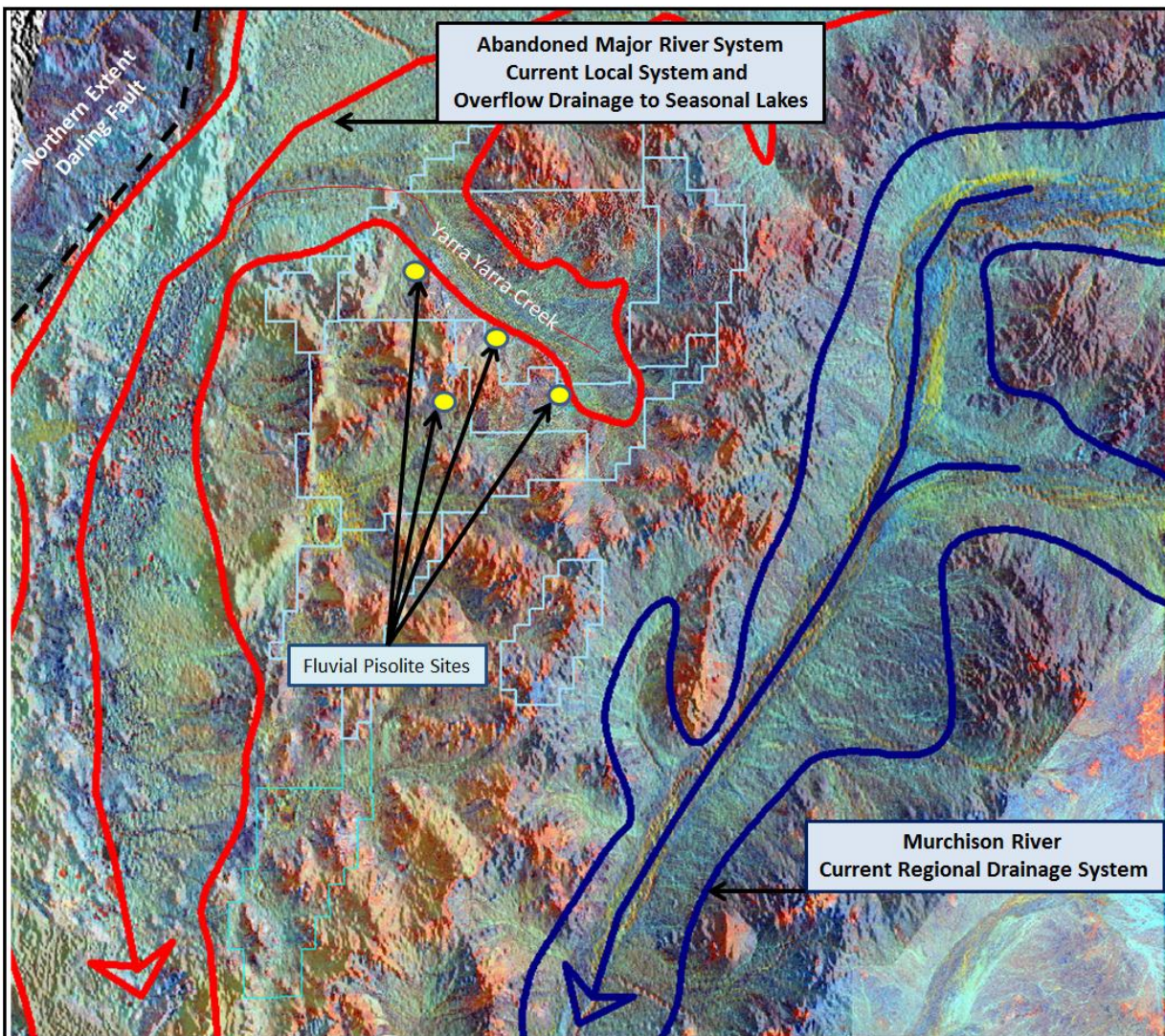


The specimen in Figure 2 (left) is a fluvial sorted pisolite, Type 1, cut and polished to better identify the constituent components. The sample contains very little detrital material. The more oxidized sample (right) contains more clay as cement and breaks up easily liberating the hematite oxide balls. Both have variable residual magnetism. The clay content varies dependent on location and deposition process.

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Fluvial pisolites have been identified at four significant kilometer size locations occurring with thicknesses of up to 10 meters but more commonly averaging 3 meters thickness. The hematite pisolite concentrations occur at an altitude of approximately 15 to 30m above current regional erosional insizement. As a result of this Athena is investigating the potential of remnant fluvial deposits of hematite pisolites from paleo channels at Byro. Samples to date are proximal to the Yarra Yarra Creek channel environment. Further work is underway to test the extent and variation in grade for the deposits identified at Byro.

Figure 3 Pisolite Distribution



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Figure 4 Type 2: Lateritic caps



Ferruginous iron caps with units up to 3m thick often brecciated at the base with a large weathering halos. The caps form prominent tops on some but not all of the breakaway outcrops and appear to be a remnant iron rich surface

Figure 5 Type 3: Hematite outcrop of both competent and brecciated massive



The Type 3 hematite deposit is found in coarse grain oxidised BIFs with low quartz content, less than 30% and commonly have extensive transported halos local to outcrop.

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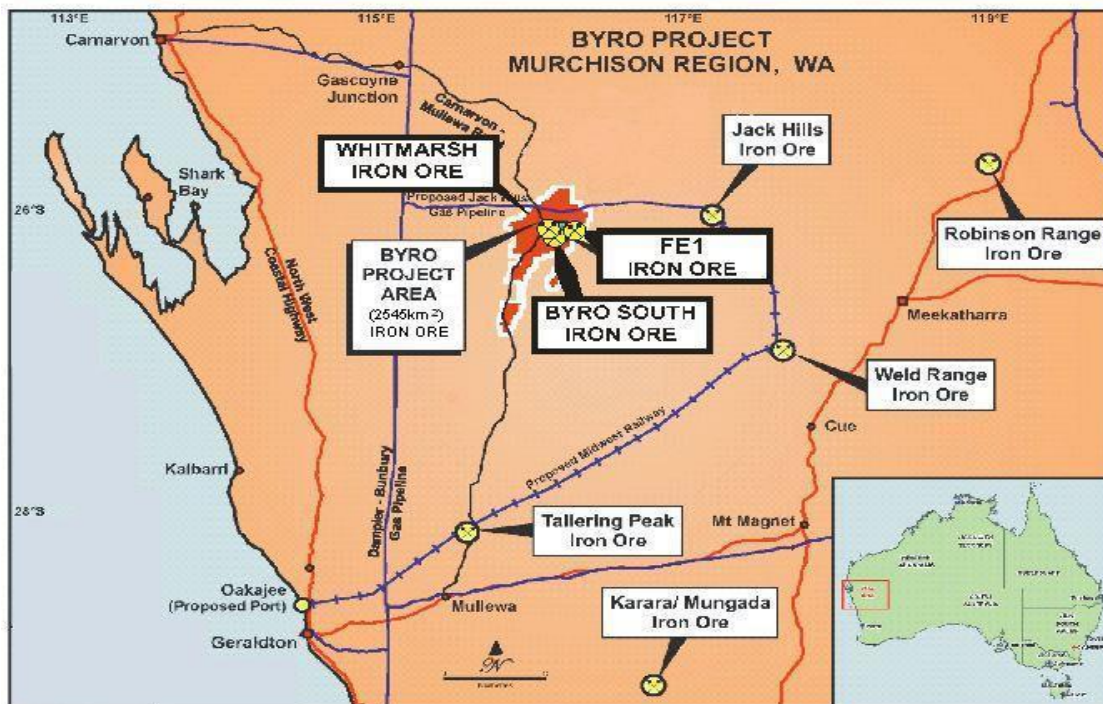
The technical information relating to Athena's exploration projects was compiled by Mr Liam Kelly an employee of Athena Resources limited. Mr Kelly is a Member of the Australasian Institute of Mining and Metallurgy, and has sufficient relevant experience in the styles of mineralisation and deposit styles under consideration to qualify as a Competent Person as defined in "The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code, 2004 edition)". Mr Kelly consents to this inclusion of the information in this report in the context and format in which it appears.

ABOUT ATHENA

Athena Resources Limited (ASX:AHN), which is based in Perth, was listed on the ASX in 2006 and currently has 122 million shares on issue. Athena's major asset is its 100% interest in the Byro Project where it is exploring for copper, nickel, PGE's in addition to iron ore. The company also has gold targets in the Ashburton.

The Byro Iron Ore Project (Athena 100% through its wholly owned subsidiaries) is strategically located some 330km north east of Geraldton and about 250km north of the Mt Gibson Talling Peak Project. It is 100km west of the proposed Midwest Iron Ore Railway to link existing and future iron ore projects in the mid west region to the proposed Oakajee deep water bulk shipping port north of Geraldton.

Figure 6. Byro Location Map



E W Edwards
Managing Director
31 January 2013

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Table 1 Assay Results Note: Fe: Iron; SiO₂: Silicon Dioxide; Al₂O₃ : Aluminium Oxide; TiO₂:Titanium Oxide; P: Phosphorus; S, Sulphur; LOI: Loss On Ignition

Sample ID	North	East	Fe	SiO2	Al2O3	TiO2	P XRF	S XRF	LOI1000
MBCR380	7108077	421052	33.28	26.95	15.19	1.87	0.036	0.037	7.87
MBCR381	7108076	420907	35.45	27.79	12.49	1.49	0.052	0.035	6.23
MBCR382	7107957	420902	37.78	22.02	14.61	1.53	0.035	0.052	7.22
MBCR383	7107929	420894	26.10	33.22	19.61	1.50	0.016	0.026	7.74
MBCR384	7103088	411592	33.29	24.56	15.79	1.56	0.015	0.098	9.19
MBCR385	7102883	410585	25.50	31.76	19.45	1.35	0.011	0.066	10.27
MBCR386	7103120	411730	32.01	26.22	17.35	1.36	0.022	0.072	8.57
MBCR387	7103121	411787	44.16	15.20	10.93	0.65	0.014	0.131	9.07
MBCR388	7094209	408765	33.74	29.99	12.32	1.61	0.045	0.049	7.06
MBCR389	7094262	409022	41.79	19.73	12.62	1.22	0.06	0.043	5.95
MBCR390	7094635	409201	28.44	35.00	14.1	0.79	0.033	0.109	8.72
MBCR391	7094748	409503	33.17	26.25	15.68	0.97	0.025	0.061	8.36
MBCR392	7094832	409522	21.60	46.97	13.64	0.74	0.019	0.058	6.45
MBCR393	7094842	409514	36.01	24.05	15.32	0.61	0.017	0.098	7.85
MBCR394	7094989	409803	38.95	23.07	12.76	0.64	0.031	0.141	7.22
MBCR395	7094722	409836	32.18	23.33	19.11	1.20	0.026	0.064	10.27
MBCR396	7094724	409838	30.82	24.85	19.39	1.04	0.021	0.061	10.25
MBCR397	7094693	409854	45.28	17.53	9.44	0.30	0.044	0.086	6.74
MBCR398	7133076	417826	39.73	34.05	5.1	0.17	0.067	0.048	3.62
MBCR399	7133058	417830	31.19	29.61	14.76	0.62	0.026	0.069	9.87
MBCR400	7132827	417732	53.03	6.36	5.44	0.18	0.029	0.233	11.77
MBCR401	7132819	417722	40.31	18.35	13.22	0.45	0.031	0.119	10.08
MBCR402	7132778	417563	47.85	25.80	1.84	0.08	0.033	0.058	3.49
MBCR403	7132474	417280	47.31	26.06	0.77	0.04	0.097	0.070	4.96
MBCR404	7132321	417185	44.99	32.07	0.70	0.04	0.057	0.044	2.30
MBCR405	7130933	418628	53.32	7.01	4.16	0.20	0.015	0.067	11.91
MBCR406	7127265	421949	27.27	30.48	18.97	0.32	0.028	0.080	11.09
MBCR407	7126468	421122	30.98	24.37	19.01	1.21	0.029	0.097	10.17
MBCR408	7126493	421087	50.89	5.61	6.68	0.42	0.02	0.186	13.18
MBCR409	7126556	421336	36.45	18.75	17.5	0.62	0.035	0.084	10.85
MBCR410	7126561	421336	46.37	10.37	11.35	0.57	0.134	0.155	11.21
MBCR411	7126561	421336	38.00	24.57	13.78	1.48	0.041	0.035	5.29
MBCR416	7114536	408014	41.06	19.16	12.81	0.66	0.022	0.078	8.05
MBCR417	7114586	408014	40.31	20.57	11.98	0.74	0.02	0.141	7.84
MBCR418	7114597	407906	42.76	14.76	13.57	1.45	0.022	0.093	8.58
MBCR420	7113456	407802	28.93	41.21	8.38	0.42	0.036	0.093	8.56
MBCR421	7113363	407965	43.94	18.77	7.19	0.25	0.073	0.107	10.24
MBCR423	7112122	407531	35.31	36.48	6.98	0.14	0.032	0.180	5.04
MBCR424	7111632	407313	47.89	18.62	5.16	0.05	0.049	0.150	6.87
MBCR425	7111717	407850	31.39	20.71	21.43	1.00	0.019	0.100	11.59
MBCR426	7111805	408479	38.86	37.59	3.18	0.13	0.017	0.051	2.87
MBCR427	7111864	409134	29.11	42.44	9.33	0.36	0.016	0.151	5.25
MBCR428	7109966	409838	43.79	20.18	8.25	0.21	0.018	0.079	8.14
MBCR429	7110140	409913	33.24	20.93	19.34	1.13	0.018	0.075	10.60
MBCR430	7108474	410952	35.06	27.93	10.37	0.78	0.045	0.138	10.00

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Table 2 Samples Taken - Awaiting Assay Results

Sample No.	North	East	Tenement	Medium	Type
MBCR320	7115946	420306	E09/1507	Outcrop	Grab
MBCR321	7115953	420287	E09/1507	Outcrop	Grab
MBCR322	7115961	420269	E09/1507	Outcrop	Grab
MBCR323	7115968	420252	E09/1507	Outcrop	Grab
MBCR324	7115977	420234	E09/1507	Outcrop	Grab
MBCR325	7115984	420218	E09/1507	Outcrop	Grab
MBCR326	7115990	420204	E09/1507	Outcrop	Grab
MBCR327	7115996	420192	E09/1507	Outcrop	Grab
MBCR328	7116015	420195	E09/1507	Outcrop	Grab
MBCR329	7116009	420210	E09/1507	Outcrop	Grab
MBCR330	7116004	420226	E09/1507	Outcrop	Grab
MBCR331	7115998	420242	E09/1507	Outcrop	Grab
MBCR332	7115993	420259	E09/1507	Outcrop	Grab
MBCR333	7115987	420276	E09/1507	Outcrop	Grab
MBCR334	7115980	420300	E09/1507	Outcrop	Grab
MBCR335	7115973	420322	E09/1507	Outcrop	Grab
MBCR336	7116005	420195	E09/1507	Outcrop	Auger
MBCR337	7115999	420209	E09/1507	Outcrop	Auger
MBCR338	7115993	420224	E09/1507	Outcrop	Auger
MBCR339	7115988	420240	E09/1507	Outcrop	Auger
MBCR340	7115981	420259	E09/1507	Outcrop	Auger
MBCR341	7115974	420275	E09/1507	Outcrop	Auger
MBCR342	7115967	420294	E09/1507	Outcrop	Auger
MBCR343	7115960	420313	E09/1507	Outcrop	Auger
MBCR344	7115955	420325	E09/1507	Outcrop	Auger
MBCR345	7115994	420334	E09/1507	Outcrop	Grab
MBCR346	7116002	420318	E09/1507	Outcrop	Grab
MBCR347	7116010	420300	E09/1507	Outcrop	Grab
MBCR348	7116019	420286	E09/1507	Outcrop	Grab
MBCR349	7116026	420269	E09/1507	Outcrop	Grab
MBCR350	7116034	420255	E09/1507	Outcrop	Grab
MBCR351	7116042	420239	E09/1507	Outcrop	Grab

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Table 2 continued Samples Taken - Awaiting Assay Results

Sample No.	MGA_North	MGA_East	Tenement	Medium	Type
MBCR352	7116051	420223	E09/1507	Outcrop	Grab
MBCR353	7116071	420216	E09/1507	Outcrop	Grab
MBCR354	7116063	420232	E09/1507	Outcrop	Grab
MBCR355	7116056	420245	E09/1507	Outcrop	Grab
MBCR356	7116047	420263	E09/1507	Outcrop	Grab
MBCR357	7116040	420280	E09/1507	Outcrop	Grab
MBCR358	7116032	420297	E09/1507	Outcrop	Grab
MBCR359	7116024	420312	E09/1507	Outcrop	Grab
MBCR360	7116016	420331	E09/1507	Outcrop	Grab
MBCR361	7116009	420346	E09/1507	Outcrop	Grab
MBCR362	7116028	420355	E09/1507	Outcrop	Grab
MBCR363	7116034	420340	E09/1507	Outcrop	Grab
MBCR364	7116041	420326	E09/1507	Outcrop	Grab
MBCR365	7116049	420310	E09/1507	Outcrop	Grab
MBCR366	7116055	420298	E09/1507	Outcrop	Grab
MBCR367	7116060	420286	E09/1507	Outcrop	Grab
MBCR368	7116067	420274	E09/1507	Outcrop	Grab
MBCR369	7116074	420260	E09/1507	Outcrop	Grab
MBCR370	7116079	420247	E09/1507	Outcrop	Grab
MBCR371	7116088	420230	E09/1507	Outcrop	Grab
MBCR372	7116104	420243	E09/1507	Outcrop	Grab
MBCR373	7116095	420261	E09/1507	Outcrop	Grab
MBCR374	7116089	420277	E09/1507	Outcrop	Grab
MBCR375	7116083	420290	E09/1507	Outcrop	Grab
MBCR376	7116076	420308	E09/1507	Outcrop	Grab
MBCR377	7116070	420323	E09/1507	Outcrop	Grab
MBCR378	7116063	420339	E09/1507	Outcrop	Grab
MBCR379	7116058	420353	E09/1507	Outcrop	Grab
MBCR412	7126561	421336	E09/1552	Outcrop	Grab
MBCR413	7126561	421336	E09/1552	Outcrop	Grab
MBCR414	7114089	408375	E09/1507	Outcrop	Grab
MBCR415	7114120	407946	E09/1507	Outcrop	Grab
MBCR419	7113674	407710	E09/1507	Outcrop	Grab