Annual Report
EL 4767

POSAR FAMILY SUPERANNUATION Pty Ltd

Reporting Period : 11 July 2011 to 10 July 2012

Date of Report: 31 August 2012 Author of Report : Sandra Posar

Table of Contents

EURO
EXPLORATION
SERVICES

OPERATIONS REPORT

ETADUNNA ROCK CHIP SAMPLING and GROUND MAGNETICS SURVEY

For: Posar Family Superannuation.

Program dates: 3rd September – 10thSeptember 2011

Written by L.L. Klingberg

27th September 2011

INTRODUCTION

Euro Exploration Services carried out a rock chip sampling and ground magnetics survey during early September 2011 for Posar Family Superannuation on their Etadunna Tenement, EL 4767.

Rock chip samples were acquired using a crew of two field technicians on quad bikes at a spacing of 400 m within a select grid in an area of interest to Posar *(Figures 1 & 2)* and supervised by a contract geologist. 5 mm sieves were used to separate chips from finer materials including soils and each sample taken was calico bagged and given an individual sample number. Magnetics data was acquired using a G-859 Caesium vapour magnetometer, position data was obtained using an integrated NovAtel Smart Antenna GPS system, base station data was acquired using a G-856 Proton Precession Magnetometer. Navigation for both rock chip sampling and magnetics surveying along lines was conducted using a Garmin GPS unit.

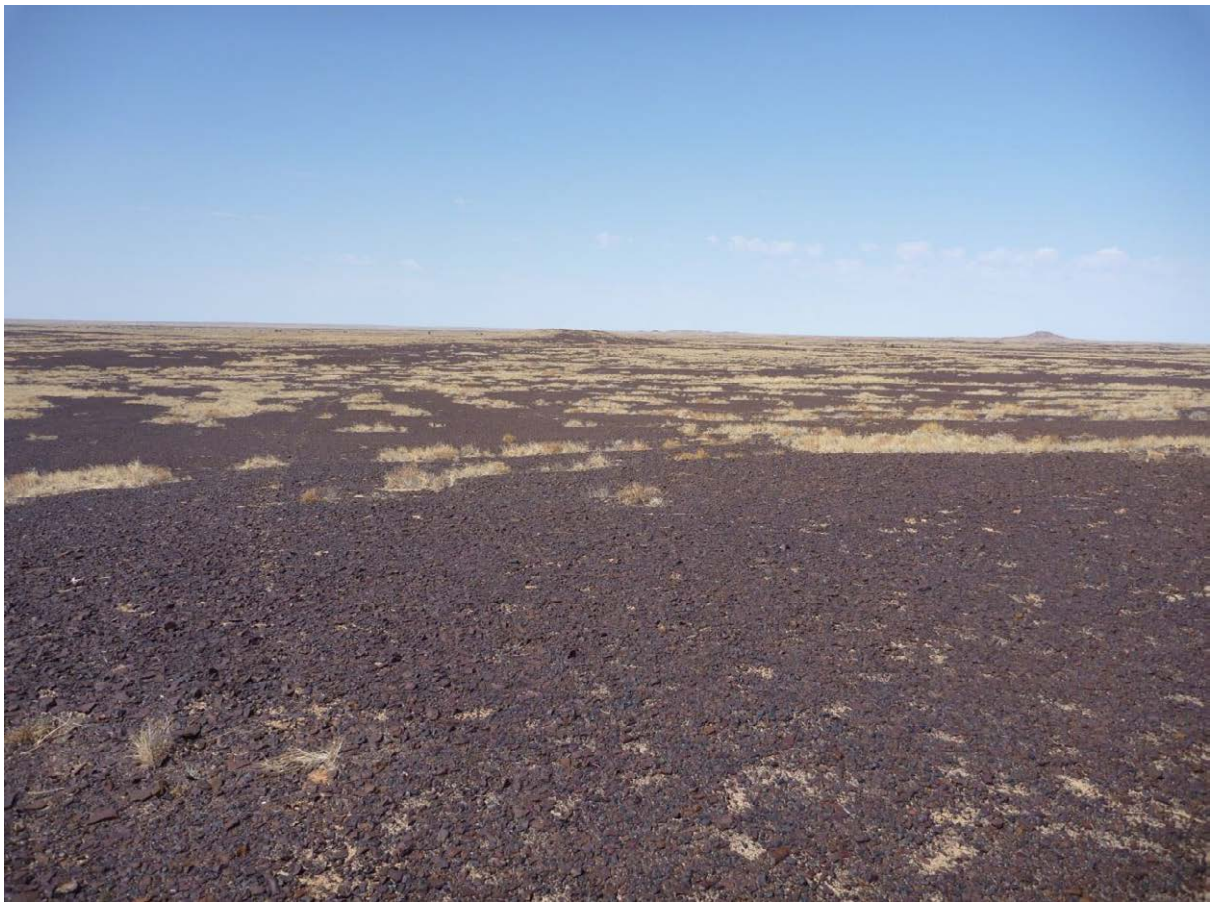


Figure 1: The general ironstone lag terrain over the Etadunna survey area, with Mt Marion in the background (top right), Looking approximately south-west.

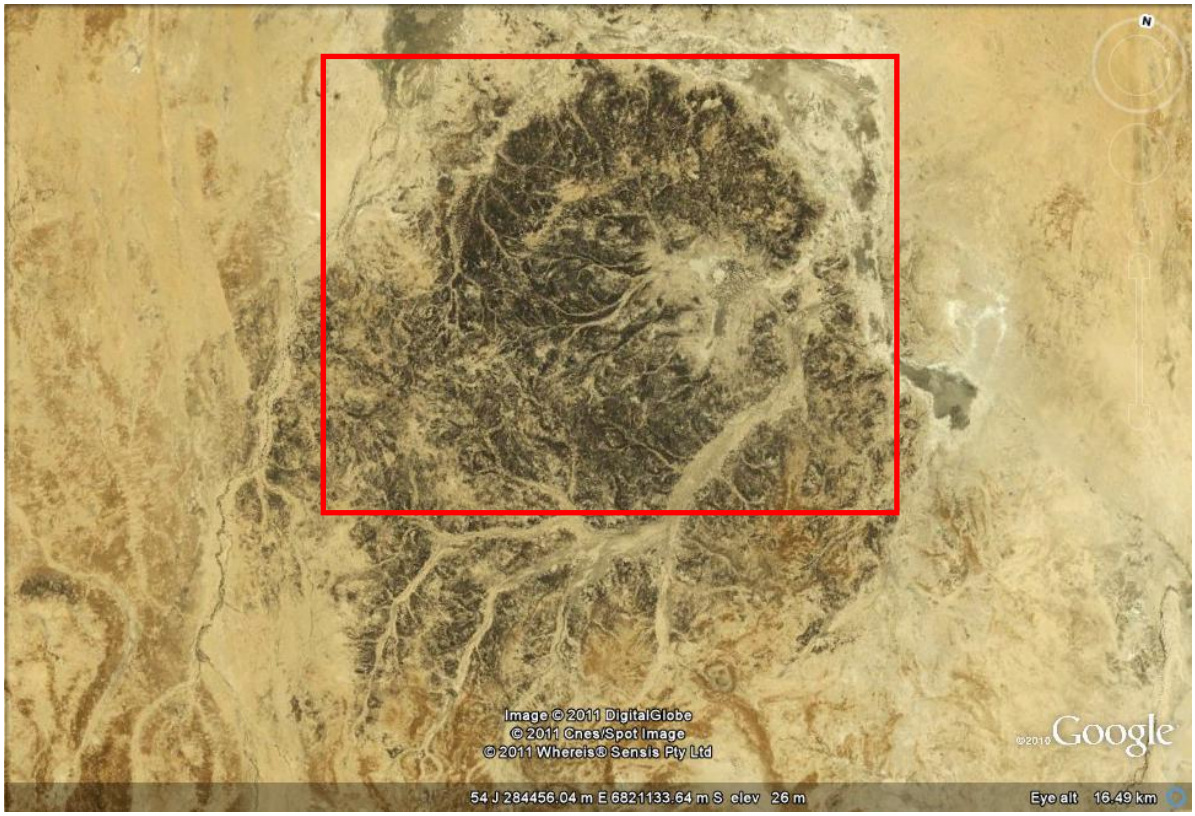


Figure 2: Area of interest by Posar Family Superannuation and approximate area of the sampling grid (red square) within tenement EL 4767.

SAMPLING AND SURVEY OVERVIEW

The rock chip sampling and ground magnetics survey covered one area titled 'Etadunna' on Etadunna Station. The area incorporated 18 rock chip sampling lines running east-west for a total of 450 samples possible *(Figure 3)*; and 3 survey lines for ground magnetics within the same area for a total of 28,800 m (*Figure 4)*. Additionally a further 3 survey lines for ground magnetics were defined in a second area approximately west of the main Etadunna sampling area for a total of 14,800 m (*Figure 5)*. Both of these areas exist in the EL 4767 tenement along the Birdsville Track, north-east of Etadunna Station *(Figure 6)*.

Rock chip samples were obtained using 4x4 quad bikes and lines were driven along sampling at 400 m intervals where possible. A total of 450 sample points were identified, and of these 352 sites contained rock chips to sample. 20 soils were taken at random locations where possible for analysis if requested. No samples were taken, rock chips or soils in floodplains or creek systems. Magnetics data was acquired using a 4x4 quad bike as a navigation guide for the lines and walked with the G-859 magnetometer carried as a backpack. Data was obtained at frequent 1 second intervals and obtained in uni-directional West to East lines in the Etadunna area, and bi-directional south-west to north-east lines in the second area. A summary of the daily work achieved for each day of the program can be seen in Appendix 1.

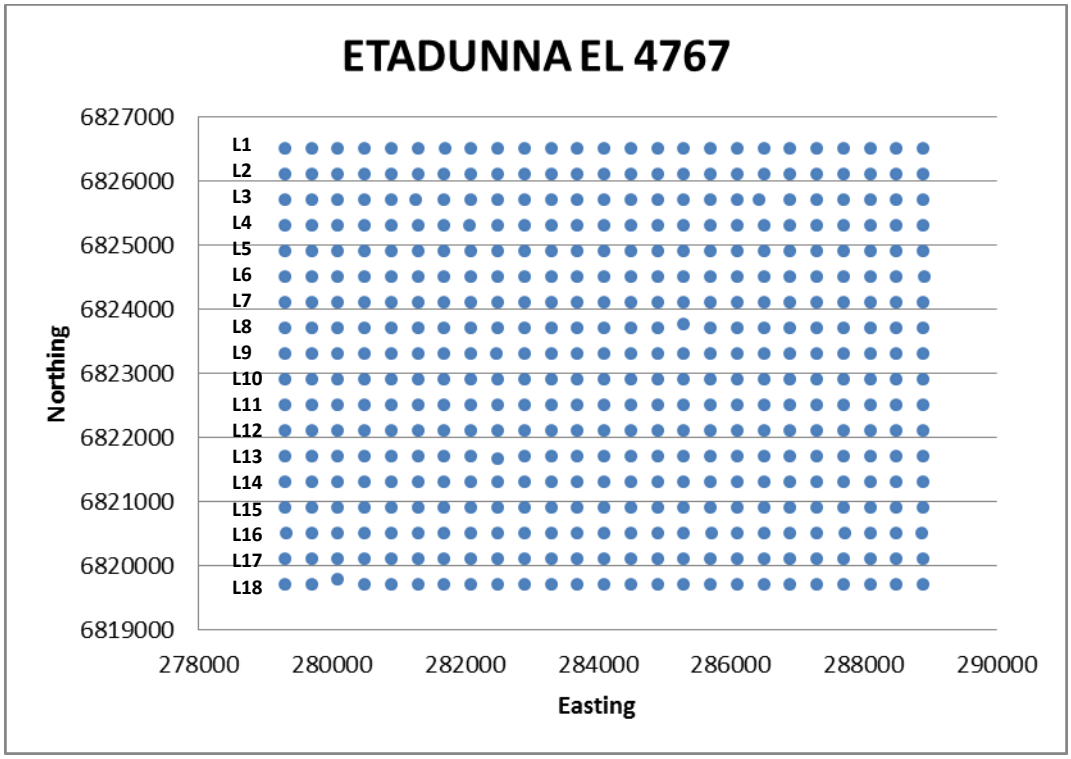


Figure 3: Etadunna Rock Chip sampling grid, Etadunna Station showing easting and northing coordinates (blue dots) of sample points possible and corresponding line numbers.

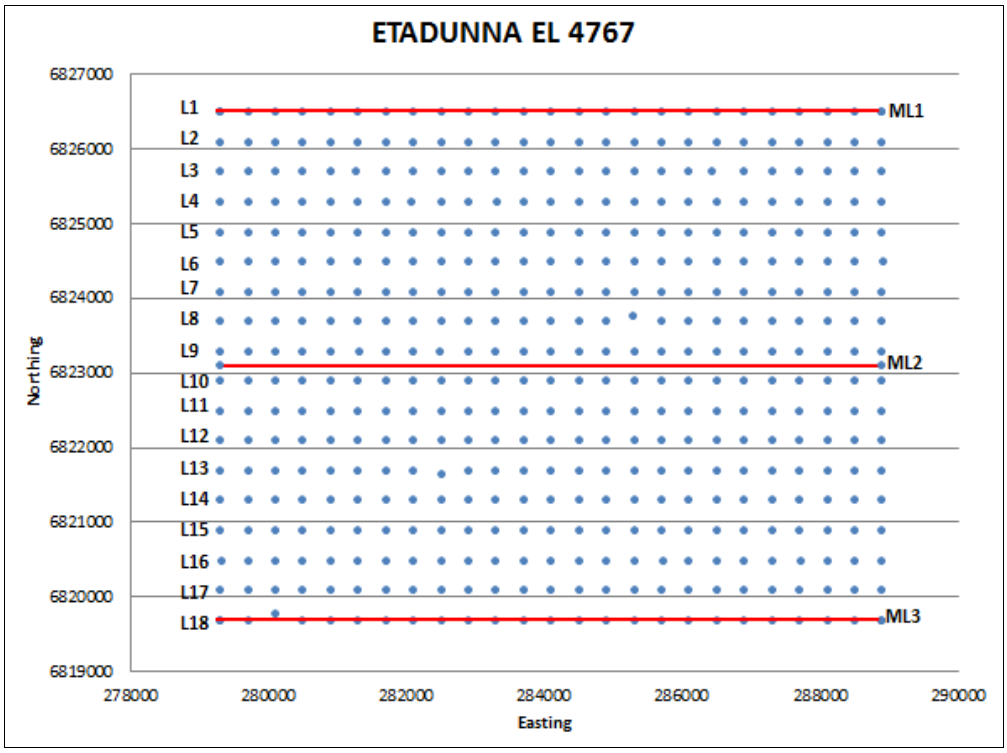


Figure 4: Etadunna Ground Magnetics grid, Etadunna Station showing easting and northing coordinates and line numbers.

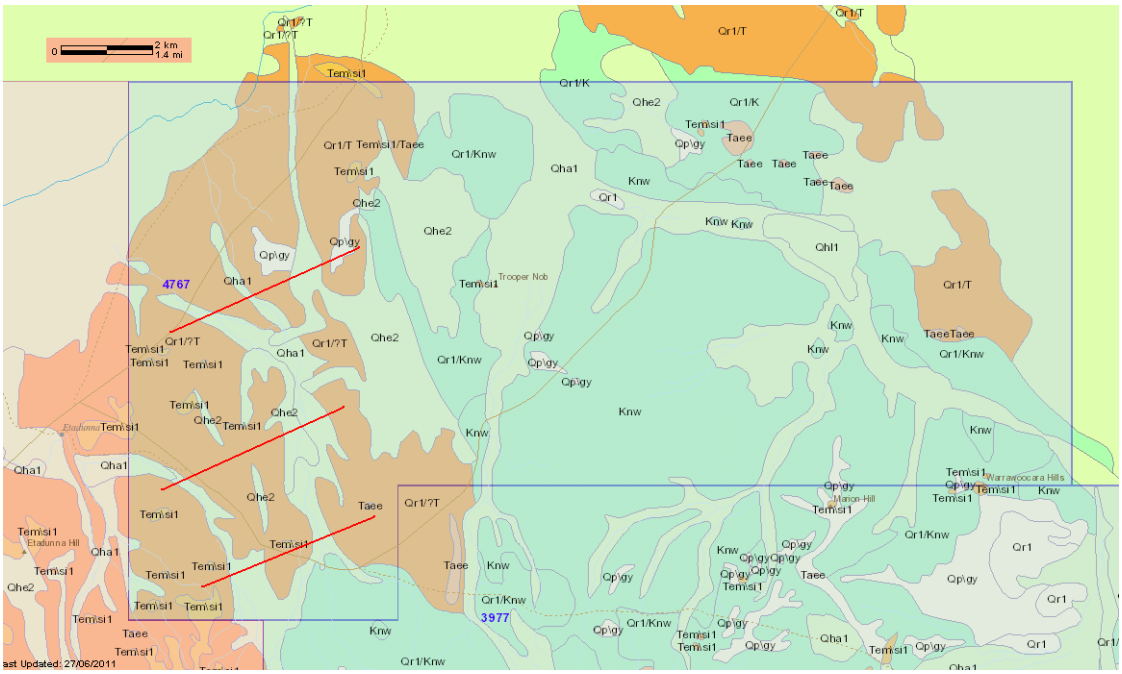


Figure 5: Area 2 Ground Magnetics grid, Etadunna Station showing regional geology over the entire EL 4767 tenement.

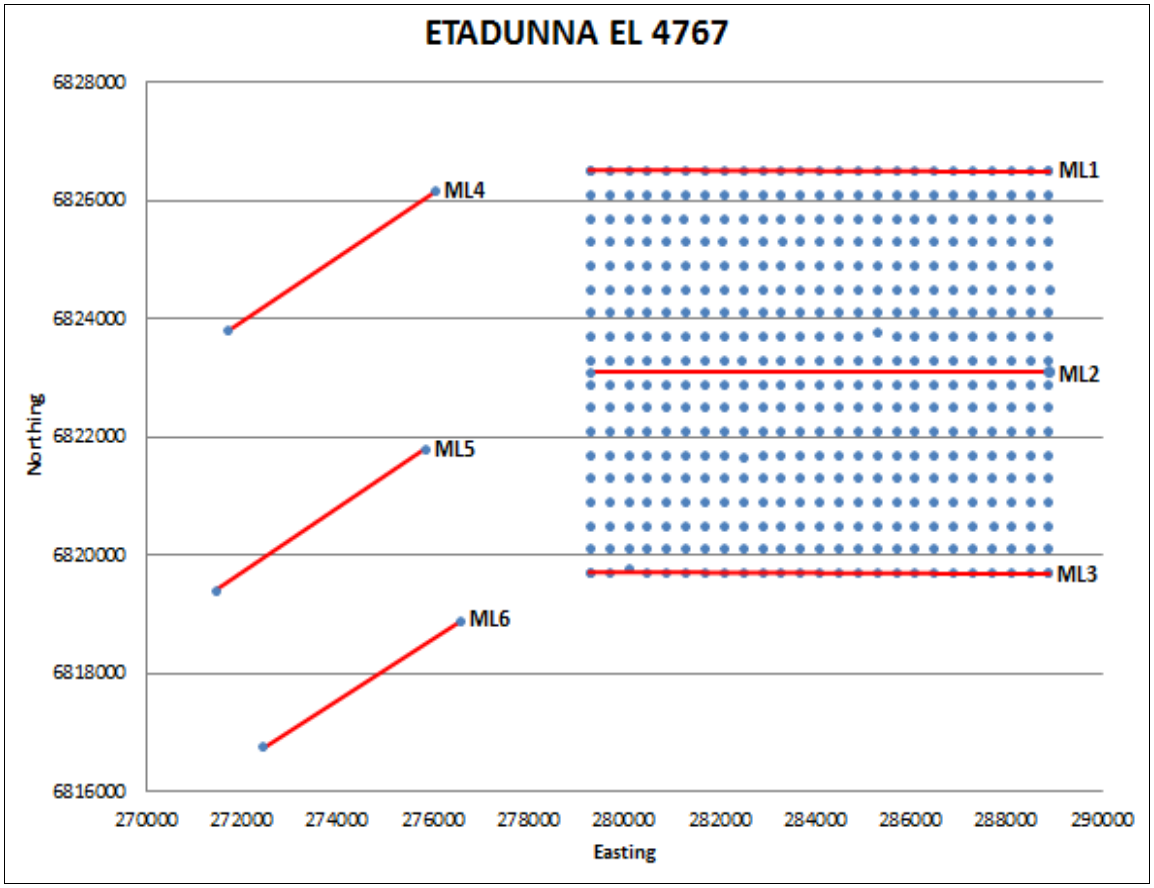


Figure 6: All Etadunna survey areas in spatial reference to each other.

PERSONNEL AND EQUIPMENT

Personnel

Data was acquired by three Euro Exploration representatives – Laura Klingberg, Steven Garnaut and Darren Bradley who were responsible for daily planning and execution of the job and nightly data entry, download and processing. Final magnetics data interpretation and processing was completed by Chris Anderson, consultant Geophysicist and rock chip samples were sent to ALS laboratories Adelaide for elemental analysis.

Sampling and Survey equipment

Sampling and Surveying equipment required for this program included the following:

Rock Chip Sampling

- 5 mm sieves for rock chip sampling,
- 1.6 mm sieves for soil sampling,
- Shovel for collection of sample media,
- Calico bags, textas, x2 Garmin GPS, sample ticket books.

Ground Magnetics Survey

- x1 G-856 Magnetometer (base station),
- x1 G-859 Magnetometer (survey),
- x2 Garmin GPS – 1 used as primary navigation tool, second as a backup,
- Batteries and various chargers for both magnetometers, downloading chords.

Vehicles

All survey lines and grids were moderate to easily accessible by unsealed roads and station tracks. As a result, a Euro Exploration Toyota Land Cruiser 4WD tray-back vehicle, Toyota 4WD Hilux hire car and x4 Terra-Kat 4x4 Quad bikes were used (1 bike as backup). The land cruiser was used for transport to and from site as well as carrier of the quad bike trailer and any other equipment during grid moves. The hilux was used for transport to and from site and the carrying of rock chip samples. The quad bikes were used as transport between sample sites for rock chip sampling; carriers of samples; as navigation along lines for the surveyor carrying the magnetometer and as transport of the surveyor between survey lines.

Accommodation, Food and Fuel

The field crew were accommodated in a location close to all survey areas to minimize daily travel times. This was the Etadunna Station shearer's quarters. Field staff were provided with dinners by the station owners and prepared their own lunch and breakfast. Fuel was obtained from Marree, south of the station along the Birdsville Track at the beginning and end of the program and no additional fuel was required during the program.

Communications

Telstra Next-G services were unavailable in the Etadunna area. A Euro Exploration satellite phone was taken on the program and used as a sched in to the Adelaide Euro Exploration office for safety purposes at designated times. Vehicle-mounted UHF radios were available in all 4WDs and quad bikes. Field staff were made aware of UHF channels and important contact phone numbers of the area which included the nearby Etadunna Station and Posar Family Superannuation representatives.

ROCK CHIP SAMPLING

Set-up of the grid

The rock chip sampling grid was established prior to commencement of the program and designated line numbers were identified for ease of reference and to save confusion. Lines were orientated in west-east direction and were given a starting and finishing coordinate for each line. Line spacing north to south was 400 m, and west to east spacing of samples was 400 m. A Garmin GPS, with accuracy of 5 m was used as navigation along these lines and samples were taken as close as possible to the sample point.

Sample Acquisition

The following procedures were carried out when taking a chip sample:

- Chip sampling occurred at 400 m intervals along the lines where a chip sample could be taken on the surface (lag material). If a sample could not be taken, the sample location was noted on the sheets provided with reason as to why the sample could not be taken and another 400 m was moved to the next sample site.
- If there was a large lag sample, a single rock was taken, if there was lag rubble, the large 5 mm sieve was used to separate chips from other soils and rubbish (veg etc.). A minimum of 500 g was sampled.
- Samples were taken in calico bags and labelled with a ticket book number as the lines were traversed.
- There was no pre-determined sampling point in case no sample could be taken at the point.
    - Written on the bag was the sample number only
    - Written in the ticket book:
        - The Date

    - The Location: Etadunna and the GPS E/N Coordinate where the sample was taken,
    - Any Further remarks e.g. lots of ground cover, any other cover present (quartz), transported/surface float, anything thought interesting.
    - Analysis – left blank
    - Taken by – Name of sampler
- While sampling if anything else of interest was found, not at the 400 m spacing for sample, it was collected, put in a calico bag and the bag labelled with the Easting and Northing Coordinates and kept for future reference or assay.

Sample Processing and Results

Sample data from the ticket books was entered each night as until it was backed up on a computer spread sheet, there were no other records that the data was taken. All sample ticket books have been kept for future reference. The final spread sheet of rock chip samples taken in the grid can be found in Appendix 2. This includes soil samples taken, positions where no samples could be taken with the reason for why, as well as sample numbers associated with rock chip samples taken. Samples were sent to ALS laboratories, where the analysis conducted was requested as ME-ICP61, an analysis for all chip samples, giving a total of 33 element concentrations including Iron and Silver. Additionally a standard Gold analysis AU-ICP21 was requested for 1 every 20 chip samples in the sample stream. Assay results were sent to a Posar Family Superannuation representative.

MAGNETICS SURVEYING AND PROCESSING

Set-up of the grid

The ground magnetic survey grids were established prior to commencement of the program and designated line numbers and grid names for ease of reference and to save confusion. Lines had various orientations and were given a starting and finishing coordinate for each line. Line spacing varied for each grid. A Garmin GPS, with accuracy of 5 m was used as navigation along these lines and where possible the field staff navigating the lines remained as close to the line coordinate unless obstacles such as large trees were encountered. Here the closest route to return to the line was taken. The magnetic survey was conducted in a unidirectional and bidirectional fashion depending on distance between survey lines and times surveys were conducted.

Data Acquisition

Magnetic field strengths were taken by the G-859 magnetometer as continuous data at a user selected rate of 1 per second. At the start of each line, data acquisition commenced in the Simple Survey mode on the Magnetometer. This is the recommended mode for use with the inbuilt NovAtel GPS. The unit keeps track of 'Mark' - the start point and 'End Line' - the end of the line via key presses and the direction of each line. Data acquisition could be paused along the line when interference was approaching particularly in regard to station fences. If this occurred data was taken

until a few metres away from the fence, paused until the fence had been crossed, and then resumed a few metres on the other side of the fence.

Each time the magnetometer was turned on, a 'Magnetometer Test' was completed which provides information about the state of operation of the magnetometer particularly including battery life and sensor signal strength. The G-859 magnetometer has an integrated NovAtel Smart Antenna GPS system where lat/long data is recorded simultaneously with the magnetic data. This can then be used to produce a survey map and exportable magnetic data with an X and Y GPS position assigned with the associated MagMap2000 program each night during data download.

Magnetics base stations

A base station was set up to determine the diurnal variation of the Earth's magnetic field, which can then be removed from the survey measurements. A base station location was determined for each area while data was being acquired in that particular area, and remained the position for the survey time. The base station was set up approximately 2 m above the ground surface and away from any magnetic objects that could generate a magnetic gradient such as fences/cattle grids. The sensor was secured to a dead tree to minimise wind-induced motion of the sensor. Base station readings were set up on auto to retrieve a reading every 30 s. Base station readings were commenced before the first survey line of the day and stopped after the last line was completed for the day. Base station data was also downloaded each night with survey information data.

Location	Easting	Northing
Rock Chip sampling Area (Lines 1,2,3) and Area 2 Line 6	279260	6819503
Area 2 Lines 5 & 6 (approximate coords along Mosquito Creek)	272106	6824210

Table 1: Locations of the Base stations.

Data Processing and Results

Raw data collected each day for the program was processed in MagMap2000. Data was plotted using the function 'GPS and the feature of a regular G-859 survey' on MagMap2000, which plotted the data as Lat/Long coordinates and then converted to WGS-84. Further plotting the mag field for this data then allowed the removal of both drop-outs and spikes. Removing drop-outs (zero readings) removes the effects due to being near a dead zone or a large ferrous mass e.g. a vehicle. They exist as zero readings and represent when the magnetometer was operating under conditions where a good reading was not possible. Spikes are non-zero anomalous readings over a short duration, known to be incorrect as they can be identified because they differ significantly from the adjacent readings. They are caused by factors such as operating the sensor near a dead zone. Removing these cleans the data up and returns a more accurate dataset.

The final plan of profiles for TMI for the Etadunna ground mag grid can be found in Figure 7. The associated final filtered data files can be found in Appendix 3.

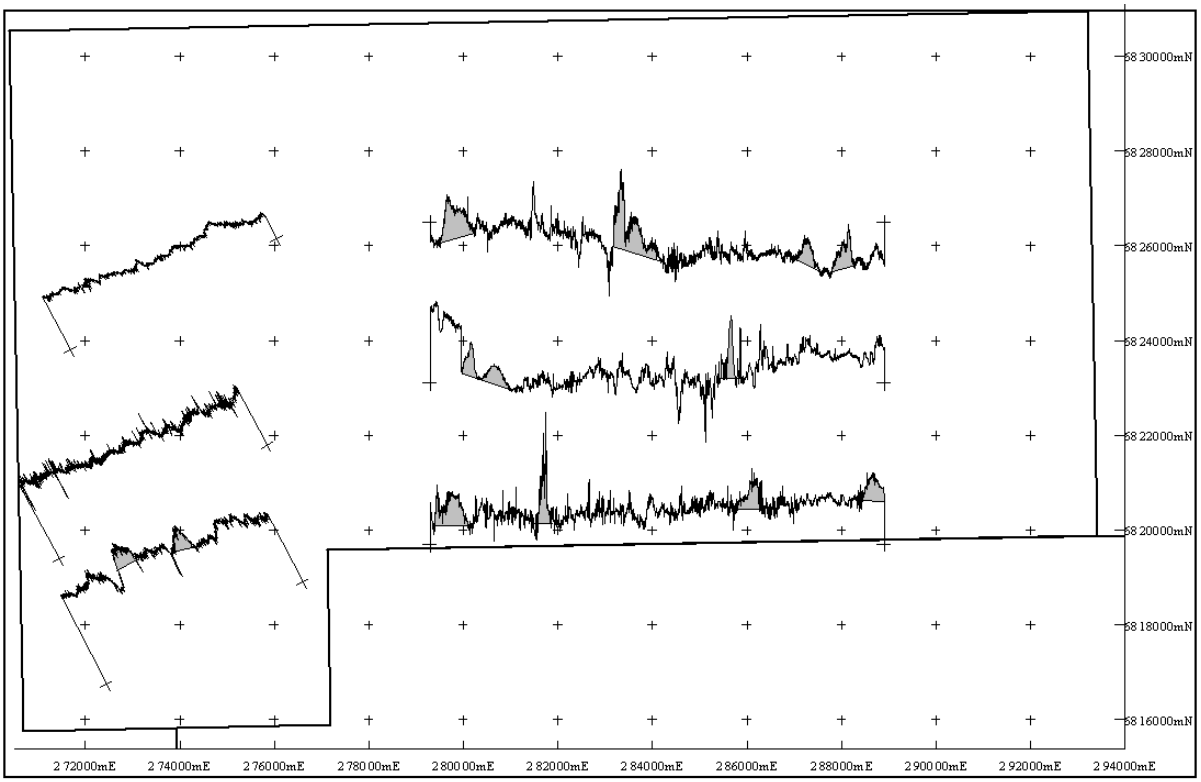


Figure 7: Final TMI profiles of the Etadunna survey area.

The ground magnetic profiles were recorded as a trial to determine if the surface outcropping iron rich material could be detected by this technique. The profiles across the eastern sampling area show a generally higher level of "spikey" magnetic response, consistent with the material at the surface having a variable impact on TMI readings. As outlined in Figure 7, areas of broader, higher magnetic response may well be due to increased thicknesses of the surface material. There is less evidence of the magnetic material being present on the western three lines.

GEOLOGY NOTES

Geology of the sampling area includes the following: present day alluvium/current bedload; present day playa sediments, silcrete caps on mesa hills; claystones and sandstones of the Winton formation (Eromanga Basin) and gypcrete.

On travel around the sampling grid, it is presently believed that the ironstone of interest is most probably surficial only and the result of deposition of a ferruginous sediment. Only small cross-sections were located, these occurring in the creeks within the sample area, but on all accounts the

ironstone existed as a small bands up to approximately 20 cm in width at the near surface (Figure 8) or was not visible (Figure 9).

Additionally, particularly moreso on the rises on the dominantly flat sample grid gypsum exposures and kaolinised sedimentary rocks were noted. These are believed to exist above the ironstone and occur on these rises where the ironstone is most likely to be located more at shallow depth unexposed (Figure 10).

The distribution of ironstone over the landscape is high and does appear to concentrate within small creeks and on the lower elevations / on the slopes of small rises (Figures 11&12). Magnetic peaks on the four observed profiles may represent accumulation of ironstone in this setting, however it is not possible to estimate what this might represent in terms of thickness for the ironstone unit.

Silcrete appears to be the more dominant caps on rises (Figure 13). Another reasoning for the ironstone being a surficial feature is the finding of highly rounded conglomerate quartz and other creek sediments, suggesting transportation and deposition within more impure ironstone. These samples were found in the lower lying elevations closer to the present day creek systems particularly on the western side of the sampling area and on the flats around Troopers Nob (Figure 14). This may suggest this area has been of different landform to the dominantly ironstone rich landscape to the east for some time, therefore exposing it to more water movement and deposition of younger sediments/cementing of these sediments.

These profiles of ironstone, sediments and gypsum are all believed to be located below younger quartzose sedimentary rocks (Figure 15), possibly of the Eyre formation which have been sometimes silicified to silcrete. Exposures of these quartzose sedimentary rocks, labelled as quartzite rocks were noted on Mount Marion and Troopers nob. Through erosion, these features are probably remnant expressions of past terrain elevations while the profiles below in the surrounding landform have been destroyed leaving low covered rubble rises on a pediment surface.

Figure 8: E: 279308 N: 6820061 the presence of an ironstone band at near surface with above/below stratigraphy.

Figure 9: E: 279326 N: 6822123: Ironstone can be present or not visible.

Figure 10: E: 279326 N: 6822123: Presence of gypsum at levels around the ironstone, seen under the ironstone here and noted on low rises on hills in the sampling area.

Figure 11: E: 284658 N: 6822848: Concentration of ironstone lag within present day small creek/runoff landform systems.

Figure 12: E: 279306 N: 6819707: Ironstone exposed within a present day alluvial creek and the younger sediments deposited above.

Figure 13: Mount Marion in the distance, with Silcrete dominant lag due to higher elevation.

Figure 14: E: 279055 N: 6825307 fine-grained quartz conglomerate within iron-rich sediment.

Figure 15: E: 279507 N: 6825282: Layering within quartzose sediment rocks that can be silicified to silcrete.

APPENDIX 1

Daily Work Achieved Summary

3rd September 2011

- Travel day Adelaide to Marree
- Food Shop for breakfast and lunch supplies done before leaving Adelaide
- Top up fuel at Stirling North
- Accommodation at Marree Caravan Park

4th September 2011

- Travel Marree to Etadunna Station
- Unpack and setup at Etadunna Shearers quarters and preparation of field equipment
- Run through of program details with Field technicians and Posar Family Superannuation representatives
- Rock Chip Sampling of line 18 in Etadunna sampling area
- Line 3 of ground magnetics completed (half day)

5th September 2011

- Rock Chip Sampling of lines 13-15 in Etadunna sampling area completed
- Investigation of the area conducted by geologist (half day)

6th September 2011

- Rock Chip Sampling of lines 9-12 in Etadunna sampling area completed
- Line 2 of ground magnetics completed (half day)

7th September 2011

- Rock Chip Sampling of lines 3-8 in Etadunna sampling area completed

8th September 2011

- Rock Chip Sampling of lines 1-2 in Etadunna sampling area completed
- Line 1 of ground magnetics completed
- Line 6 of ground magnetics in area 2 completed (rock chip sampling where denoted by geologist)

9th September 2011

- Lines 4 & 5 of ground magnetics in area 2 completed
- Travel Etadunna Station to Copley
- Top up fuel in Marree
- Accommodation at Copley Caravan Park

10th September 2011

- Travel Copley to Adelaide, arrival at 1:00pm
- Top up fuel in Clare / Adelaide for individual cars when required.

COMPLETION OF ETADUNNA ROCK CHIP SAMPLING AND GROUNDMAG SURVEY.

APPENDIX 2

Rock Chip Sample Data

Line#	Sample#	Date	Location	Easting	Northing	Comments	Sampler
18		4/09/2011	Etadunna	279300	6819700	SOIL - Alluvial	Darren
	57502	4/09/2011	Etadunna	279700	6819700	Surface Float, Hematite	Darren
	57503	4/09/2011	Etadunna	280100	6819789	surface float + alluvial sand	Darren
	57504	4/09/2011	Etadunna	280500	6819700	surface float	Darren
	57505	4/09/2011	Etadunna	280900	6819700	surface float	Darren
	57506	4/09/2011	Etadunna	281300	6819700	alluvial sand + surface float	Darren
	57507	4/09/2011	Etadunna	281700	6819700	surface float	Darren
	57508	4/09/2011	Etadunna	282100	6819700	surface float	Darren
	57509	4/09/2011	Etadunna	282500	6819700	alluvial sand	Darren
	57510	4/09/2011	Etadunna	282900	6819700	surface float	Darren
	57511	4/09/2011	Etadunna	283300	6819700	surface float	Darren
	57512	4/09/2011	Etadunna	283700	6819700	surface float	Darren
	57513	4/09/2011	Etadunna	284100	6819700	surface float	Darren
	57514	4/09/2011	Etadunna	284500	6819700	surface float	Darren
	57515	4/09/2011	Etadunna	284900	6819700	surface float	Darren
	57516	4/09/2011	Etadunna	285300	6819700	surface float	Darren
	57517	4/09/2011	Etadunna	285700	6819700	surface float	Darren
	57518	4/09/2011	Etadunna	286100	6819700	surface float, round white qtz 0.5-1cm + festone and minor silcrete	Steve
	57519	4/09/2011	Etadunna	286500	6819700	silcrete + fgfestone	Steve
	57520	4/09/2011	Etadunna	286900	6819700	less lag than previous, silcrete dom boulder, fgfestone	Steve
	57521	4/09/2011	Etadunna	287300	6819700	dominant silcrete, minor festone	Steve
	57522	4/09/2011	Etadunna	287700	6819700	dominant silcrete, on a small rise	Steve
	57523	4/09/2011	Etadunna	288100	6819700	dominant silcrete, total cover, directly north of mtmarion	Steve
	57524	4/09/2011	Etadunna	288500	6819700	boulder silcrete, fgfestone	Steve
	57525	4/09/2011	Etadunna	288900	6819700	festone and minor silcrete	Steve
17	57526	5/09/2011	Etadunna	279300	6820100	festone surface float	Darren
	57527	5/09/2011	Etadunna	279700	6820100	festone surface float	Darren
	57528	5/09/2011	Etadunna	280100	6820100	festone surface float	Darren
	57529	5/09/2011	Etadunna	280500	6820100	festone surface float	Darren
	57530	5/09/2011	Etadunna	280900	6820100	surface float	Darren
	57531	5/09/2011	Etadunna	281300	6820100	surface float	Darren
	57532	5/09/2011	Etadunna	281700	6820100	surface float	Darren
	57533	5/09/2011	Etadunna	282100	6820100	surface float	Darren
	57534	5/09/2011	Etadunna	282500	6820100	surface float	Darren
	57535	5/09/2011	Etadunna	282900	6820100	surface float	Darren
	57536	5/09/2011	Etadunna	283300	6820100	surface float	Darren
	57537	5/09/2011	Etadunna	283700	6820100	surface float	Darren
	57538	5/09/2011	Etadunna	284100	6820101	surface float	Darren
	57539	5/09/2011	Etadunna	284500	6820100	surface float	Darren
	57540	5/09/2011	Etadunna	284900	6820100	surface float	Darren
	57541	5/09/2011	Etadunna	285300	6820100	surface float	Darren
	57542	5/09/2011	Etadunna	285700	6820100	surface float	Darren
	57543	5/09/2011	Etadunna	286100	6820100	alluvial sand	Darren
	57544	5/09/2011	Etadunna	286500	6820100	surface float	Darren
	57545	5/09/2011	Etadunna	286900	6820100	hematite + silcrete	Darren
	57546	5/09/2011	Etadunna	287300	6820100	surface float, hematite + silcrete	Darren
	57547	5/09/2011	Etadunna	287700	6820100	surface float, silcrete	Darren
	57548	5/09/2011	Etadunna	288100	6820100	surface float, hematite + silcrete	Darren
	57549	5/09/2011	Etadunna	288500	6820100	surface float, hematite and silcrete	Darren
	57550	5/09/2011	Etadunna	288900	6820100	surface float, silcrete	Darren
16		5/09/2011	Etadunna	279320	6820500	SOIL	Laura
	57601	5/09/2011	Etadunna	279700	6820500	dominant festone, angular, minor silcrete	Laura
	57602	5/09/2011	Etadunna	280100	6820500	dominant festone, inc in silcrete to prev, sample, flat, surface float near road	Laura
	57603	5/09/2011	Etadunna	280500	6820500	festone dominant, dame as previous, flat and grasses and groups of lag, minor boulder silcrete 60/40 festone/silcrete	Laura
	57604	5/09/2011	Etadunna	280900	6820500	same landscape as previous, dec. in % silcrete, 90% festone, good cover, flat, slight drop to south	Laura
	57605	5/09/2011	Etadunna	281300	6820500	slight increase in elevation, still flat, domfestone/silcrete 90/10% solid cover	Laura
	57606	5/09/2011	Etadunna	281700	6820500	more veg cover, still patches of festonedom lag	Laura
	57607	5/09/2011	Etadunna	282100	6820500	dec in % la cover, festonedom + silcrete +/- gypsum	Laura
	57608	5/09/2011	Etadunna	282500	6820500	lag back, fedom 30% silcrete, less veg, flat, come from ridge to SSE	Laura

	57609	5/09/2011	Etadunna	282900	6820500	festone lag + goe on surfaces (yebr) no silcrete, on small ridge, veg sparse	Laura
	57610	5/09/2011	Etadunna	283300	6820500	festone+goe on surfaces, inc in veg cover	Laura
	57611	5/09/2011	Etadunna	283700	6820500	festone lag + goe, mod veg cover, surface float inbtw 2 rises of minimal elevation change	Laura
	57612	5/09/2011	Etadunna	284100	6820500	fgfestone + minor silcrete boulders, rise to SSW - colluvial runoff, mod veg	Laura
	57613	5/09/2011	Etadunna	284500	6820500	festone + goe, no silcrete, top of low ridge, gone thru valley of alluvial festone from last point	Laura
	57614	5/09/2011	Etadunna	284900	6820500	colluvial + alluvial festone off ridge to S, no silcrete, mod veg cover	Laura
	57615	5/09/2011	Etadunna	285300	6820500	almost black festone, minor goe, low veg cover, area undulying with hills + runoff valleys, minor qtz	Laura
	57616	5/09/2011	Etadunna	285715	6820500	15m moved, on E side, slight rise of sml alluvial river, festone + brye&brgoe, small circular scatterings of gypsum? - dug up by animals?	Laura
		5/09/2011	Etadunna	286100	6820500	SOIL	Laura
	57617	5/09/2011	Etadunna	286500	6820500	Soil at 286100 silc + festone minor, within area of channels and lots of grass cover - transported 50/50% lag + vfgqtz	Laura
	57618	5/09/2011	Etadunna	286900	6820500	minor veg 60/40% silc/festone, surface float, solid lag cover	Laura
	57619	5/09/2011	Etadunna	287300	6820500	colluvial+alluvial from mtmarion? Surface float, mod veg, mod cover festone + silcrete varying dominance in patches	Laura
	57620	5/09/2011	Etadunna	287725	6820500	moved slightly, dom silcrete 5-10% festone, all from mtmarion, low veg total lag cover of boulder size	Laura
	57621	5/09/2011	Etadunna	288100	6820500	50/50 festone/silcrete low-mod veg cover, silcrete more boulder, pebble festone, over a ridge to the west, colluvial	Laura
	57622	5/09/2011	Etadunna	288500	6820500	dom silcrete boulders, festone pebbles, small rise, mod veg cover	Laura
	57623	5/09/2011	Etadunna	288880	6820500	20m short, to E are sandy channels, lots of veg, sample taken on flat next to channel, mod veg cover, 50/50 festone/silcrete, mod cover	Laura
15		5/09/2011	Etadunna	279300	6820900	SOIL	Steve
	57551	5/09/2011	Etadunna	279700	6820900	surface float, hematite scattered silcrete	Steve
	57552	5/09/2011	Etadunna	280100	6820900	surface float, minor hematite, abundant silcrete	Steve
	57553	5/09/2011	Etadunna	280500	6820900	surface float, hematite and silcrete	Steve
	57554	5/09/2011	Etadunna	280900	6820900	surface float, abundant hematite, minor silcrete	Steve
	57555	5/09/2011	Etadunna	281300	6820900	surface float, abundant hematite	Steve
	57556	5/09/2011	Etadunna	281700	6820900	surface float, hematite, minor silcrete	Steve
	57557	5/09/2011	Etadunna	282100	6820900	surface float, hematite, minor silcrete	Steve
	57558	5/09/2011	Etadunna	282500	6820900	surface float, hematite, minor silcrete	Steve
	57559	5/09/2011	Etadunna	282900	6820900	surface float, hematite, minor silcrete, goethite	Steve
	57560	5/09/2011	Etadunna	283300	6820900	surface float, hematite (black) minor silcrete, brown goethite	Steve
	57561	5/09/2011	Etadunna	283700	6820900	surface float, hematite, silcrete, goethite	Steve
	57562	5/09/2011	Etadunna	284100	6820900	surface float, hematite, silcrete, goethite	Steve
	57563	5/09/2011	Etadunna	284500	6820900	surface float, hematite, silcrete, goethite	Steve
	57564	5/09/2011	Etadunna	284900	6820900	surface float, hematite, silcrete, goethite	Steve
	57565	5/09/2011	Etadunna	285300	6820900	surface float, hematite, silcrete, goethite	Steve
	57566	5/09/2011	Etadunna	285700	6820900	surface float, hematite, silcrete, goethite	Steve
	57567	5/09/2011	Etadunna	286100	6820900	surface float, hematite, silcrete, goethite	Steve
		5/09/2011	Etadunna	286500	6820900	SOIL	Steve
	57568	5/09/2011	Etadunna	286900	6820900	surface float, hematite, silcrete, goethite	Steve
	57569	5/09/2011	Etadunna	287300	6820900	surface float, hematite, silcrete, goethite	Steve
	57570	5/09/2011	Etadunna	287700	6820900	surface float, abundant silcrete, minor hematite and goethite	Steve
	57571	5/09/2011	Etadunna	288100	6820900	surface float, abundant hematite, goethite, minor silcrete	Steve
	57572	5/09/2011	Etadunna	288500	6820900	surface float, hematite, silcrete, goethite	Steve
		5/09/2011	Etadunna	288900	6820900	SOIL	Steve
14	57648	5/09/2011	Etadunna	288900	6821300	surface float, hematite and silcrete	Steve
	57624	5/09/2011	Etadunna	288500	6821300	surface float	Darren
	57625	5/09/2011	Etadunna	288100	6821300	surface float, hematite and silcrete	Darren
	57626	5/09/2011	Etadunna	287700	6821300	surface float, hematite and silcrete	Darren
	57627	5/09/2011	Etadunna	287300	6821300	surface float, hematite and silcrete	Darren
	57628	5/09/2011	Etadunna	286900	6821300	alluvial soil	Darren
	57629	5/09/2011	Etadunna	286500	6821300	surface float, hematite	Darren
	57630	5/09/2011	Etadunna	286100	6821300	surface float, hematite	Darren
	57631	5/09/2011	Etadunna	285700	6821300	surface float, hematite	Darren
	57632	5/09/2011	Etadunna	285300	6821300	surface float, hematite	Darren
	57633	5/09/2011	Etadunna	284900	6821300	surface float, hematite	Darren
	57634	5/09/2011	Etadunna	284500	6821300	surface float, hematite	Darren
	57635	5/09/2011	Etadunna	284100	6821300	surface float, hematite	Darren
	57636	5/09/2011	Etadunna	283700	6821300	surface float, hematite and silcrete	Darren
	57637	5/09/2011	Etadunna	283300	6821300	surface float, hematite and silcrete	Darren
	57638	5/09/2011	Etadunna	282900	6821300	surface float, hematite	Darren
	57639	5/09/2011	Etadunna	282500	6821300	surface float, hematite and silcrete	Darren
	57640	5/09/2011	Etadunna	282100	6821300	surface float, small pebbles hematite	Darren

	57641	5/09/2011	Etadunna	281700	6821300	surface float, hematite and silcrete	Darren
	57642	5/09/2011	Etadunna	281300	6821300	surface float, hematite and silcrete	Darren
	57643	5/09/2011	Etadunna	280900	6821300	surface float, hematite, silcrete, very sandy	Darren
	57644	5/09/2011	Etadunna	280500	6821300	surface float, minor silcrete and goethite, festone	Darren
	57645	5/09/2011	Etadunna	280100	6821300	surface float, hematite and silcrete	Darren
	57646	5/09/2011	Etadunna	279700	6821300	surface float, hematite and silcrete	Darren
	57647	5/09/2011	Etadunna	279300	6821300	SOIL	Darren
13	57573	5/09/2011	Etadunna	288900	6821700	surface float, hematite, goethite	Steve
	57574	5/09/2011	Etadunna	288500	6821700	surface float, hematite, silcrete, goethite	Steve
	57575	5/09/2011	Etadunna	288100	6821700	surface float, hematite, silcrete, goethite	Steve
	57576	5/09/2011	Etadunna	287700	6821700	surface float, hematite, goethite, minor silcrete	Steve
		5/09/2011	Etadunna	287300	6821700	SOIL	Steve
	57577	5/09/2011	Etadunna	286900	6821700	surface float, hematite, goethite, sparse qtz	Steve
	57578	5/09/2011	Etadunna	286500	6821700	surface float, hematite, goethite, minor silcrete	Steve
	57579	5/09/2011	Etadunna	286100	6821700	surface float, hematite, goethite, silcrete	Steve
	57580	5/09/2011	Etadunna	285700	6821700	surface float, hematite, goethite, minor silcrete	Steve
	57581	5/09/2011	Etadunna	285300	6821700	surface float, hematite, goethite, minor silcrete	Steve
	57582	5/09/2011	Etadunna	284900	6821700	surface float, hematite, goethite, minor silcrete	Steve
	57583	5/09/2011	Etadunna	284500	6821700	surface float, hematite, goethite, minor silcrete	Steve
	57584	5/09/2011	Etadunna	284100	6821700	surface float, hematite, goethite, minor silcrete	Steve
	57585	5/09/2011	Etadunna	283700	6821700	surface float, hematite, goethite, silcrete	Steve
	57586	5/09/2011	Etadunna	283300	6821700	surface float, hematite, goethite	Steve
	57587	5/09/2011	Etadunna	282900	6821700	surface float, hematite, silcrete, goethite	Steve
	57588	5/09/2011	Etadunna	282500	6821660	surface gloat, hematite, goethite, silcrete	Steve
	57589	5/09/2011	Etadunna	282100	6821700	surface float, hematite, goethite, minor silcrete	Steve
	57590	5/09/2011	Etadunna	281700	6821700	surface float, hematite, goethite	Steve
	57591	5/09/2011	Etadunna	281300	6821700	surface float, hematite, goethite, minor silcrete	Steve
	57592	5/09/2011	Etadunna	280900	6821700	surface float, hematite, goethite, minor silcrete	Steve
	57593	5/09/2011	Etadunna	280500	6821700	surface float, silcrete, hematite, goethite	Steve
	57594	5/09/2011	Etadunna	280100	6821700	surface float, hematite, silcrete, goethite	Steve
	57595	5/09/2011	Etadunna	279700	6821700	surface float, hematite, goethite, minor silcrete	Steve
		5/09/2011	Etadunna	279300	6821700	SOIL	Steve
12		6/09/2011	Etadunna	279300	6822100	SOIL	Darren
	57751	6/09/2011	Etadunna	279700	6822100	surface float, silcrete minor hematite	Darren
	57752	6/09/2011	Etadunna	280100	6822100	surface float, festone	Darren
	57753	6/09/2011	Etadunna	280500	6822100	surface float, hematite and silcrete	Darren
	57754	6/09/2011	Etadunna	280900	6822100	surface float, hematite and silcrete	Darren
	57755	6/09/2011	Etadunna	281300	6822100	surface float, hematite	Darren
	57756	6/09/2011	Etadunna	281700	6822100	surface float, hematite	Darren
	57757	6/09/2011	Etadunna	282100	6822100	surface float, hematite and silcrete	Darren
	57758	6/09/2011	Etadunna	282500	6822100	surface float, large hematite	Darren
	57759	6/09/2011	Etadunna	282900	6822100	surface float hematite	Darren
	57760	6/09/2011	Etadunna	283300	6822100	surface float, hematite and silcrete	Darren
	57761	6/09/2011	Etadunna	283700	6822100	surface float, hematite	Darren
	57762	6/09/2011	Etadunna	284100	6822100	surface float, hematite	Darren
	57763	6/09/2011	Etadunna	284500	6822100	surface float, hematite and silcrete	Darren
	57764	6/09/2011	Etadunna	284900	6822100	surface float, hematite and silcrete	Darren
	57765	6/09/2011	Etadunna	285300	6822100	surface float, hematite	Darren
	57766	6/09/2011	Etadunna	285700	6822100	surface float, hematite and silcrete	Darren
	57767	6/09/2011	Etadunna	286100	6822100	surface float, hematite - small rubble	Darren
	57768	6/09/2011	Etadunna	286500	6822100	surface float, hematite small rubble	Darren
	57769	6/09/2011	Etadunna	286900	6822100	surface float, hematite + lots of cowpoo	Darren
	57770	6/09/2011	Etadunna	287300	6822100	surface float, hematite large boulders	Darren
	57771	6/09/2011	Etadunna	287700	6822100	surface float, hematite and silcrete	Darren
	57772	6/09/2011	Etadunna	288100	6822100	surface float, hematite and silcrete	Darren
	57773	6/09/2011	Etadunna	288500	6822100	surface float, small rubble hematite + boulder silcrete	Darren
	57774	6/09/2011	Etadunna	288900	6822100	surface float, hematite	Darren
11	57775	6/09/2011	Etadunna	288900	6822500	surface float, hematite	Darren
	57776	6/09/2011	Etadunna	288500	6822500	surface float, hematite	Darren
	57777	6/09/2011	Etadunna	288100	6822500	surface float, hematite and silcrete	Darren
	57778	6/09/2011	Etadunna	287700	6822500	surface float, hematite	Darren
		6/09/2011	Etadunna	287300	6822500	NO SAMPLE, Washout	Darren
	57779	6/09/2011	Etadunna	286900	6822500	surface float, hematite	Darren
	57780	6/09/2011	Etadunna	286500	6822500	surface float, hematite rubble	Darren
		6/09/2011	Etadunna	286100	6822500	NO SAMPLE, Washout	Darren
	57781	6/09/2011	Etadunna	285700	6822500	surface float, hematite small rubble	Darren
	57782	6/09/2011	Etadunna	285300	6822500	surface float, hematite and silcrete	Darren
	57783	6/09/2011	Etadunna	284900	6822500	surface float, hematite	Darren

	57784	6/09/2011	Etadunna	284500	6822500	surfae float hematite	Darren
	57785	6/09/2011	Etadunna	284100	6822500	surface float, hematite rubble	Darren
	57786	6/09/2011	Etadunna	283700	6822500	surface float, hematite rubble	Darren
	57787	6/09/2011	Etadunna	283300	6822500	surface float, hematite	Darren
	57788	6/09/2011	Etadunna	282900	6822500	surface float, hematite solid cover on surface	Darren
	57789	6/09/2011	Etadunna	282500	6822500	surface float, hematite solid cover on surface	Darren
	57790	6/09/2011	Etadunna	282100	6822500	surface float, hematite solid cover on surface	Darren
	57791	6/09/2011	Etadunna	281700	6822500	surface float, hematite solid cover on surface	Darren
	57792	6/09/2011	Etadunna	281300	6822500	surface float, hematite and silcrete	Darren
	57793	6/09/2011	Etadunna	280900	6822500	surface float, hematite and silcrete	Darren
	57794	6/09/2011	Etadunna	280500	6822500	surface float, hematite rubble and boulder silcrete	Darren
	57795	6/09/2011	Etadunna	280100	6822500	surface float, silcrete cover, minor hematite	Darren
	57796	6/09/2011	Etadunna	279700	6822500	surface float, some testone and silcrete, mostly sand	Darren
		6/09/2011	Etadunna	279300	6822500	SOIL	Darren
10		6/09/2011	Etadunna	279300	6822900	SOIL	Steve
		6/09/2011	Etadunna	279700	6822900	NO SAMPLE, Channel	Steve
	57596	6/09/2011	Etadunna	280100	6822900	surface float, hematite, goethite, silcrete, qtz, sedimentary	Steve
	57597	6/09/2011	Etadunna	280500	6822900	silcrete, minor hema/goethite, minor conglomerate	Steve
	57598	6/09/2011	Etadunna	280900	6822900	silcrete, hematite, minor conglomerate	Steve
	57599	6/09/2011	Etadunna	281300	6822900	surface float, silcrete, minor hematite	Steve
	57600	6/09/2011	Etadunna	281700	6822900	surface float, hematite, minor silcrete, goethite	Steve
	57651	6/09/2011	Etadunna	282100	6822900	surface float, hematite, goethite	Steve
	57652	6/09/2011	Etadunna	282500	6822900	surface float, hematite, goethite	Steve
	57653	6/09/2011	Etadunna	282900	6822900	surface float, hematite, goethite, minor silcrete	Steve
	57654	6/09/2011	Etadunna	283300	6822900	surface float, hematite, goethite	Steve
	57655	6/09/2011	Etadunna	283700	6822900	surface float, hematite, goethite, minor silcrete	Steve
	57656	6/09/2011	Etadunna	284100	6822900	surface float, hematite, goethite, minor silcrete	Steve
	57657	6/09/2011	Etadunna	284500	6822900	minor hematite, goethite, silcrete	Steve
	57658	6/09/2011	Etadunna	284900	6822900	surface float, hematite, minor silcrete, goethite	Steve
	57659	6/09/2011	Etadunna	285300	6822900	surface float, hematite, goethite, silcrete	Steve
	57660	6/09/2011	Etadunna	285700	6822900	surface float, hematite, goethite, silcrete	Steve
		6/09/2011	Etadunna	286100	6822900	NO SAMPLE, Channel	Steve
	57661	6/09/2011	Etadunna	286500	6822900	surface float, hematite, silcrete, goethite	Steve
	57662	6/09/2011	Etadunna	286900	6822900	surface float, hematite, silcrete, goethite	Steve
		6/09/2011	Etadunna	287300	6822900	NO SAMPLE, Channel	Steve
	57663	6/09/2011	Etadunna	287700	6822900	surface float, alluvial hematite, goethite and silcrete	Steve
	57664	6/09/2011	Etadunna	288100	6822900	surface float, silcrete, hematite, goethite	Steve
	57665	6/09/2011	Etadunna	288500	6822900	surface float, hematite, goethite, edge of flood plain	Steve
		6/09/2011	Etadunna	288900	6822900	NO SAMPLE, Channel	Steve
9	57851	6/09/2011	Etadunna	279300	6823300	minor silcrete lag, low grass on a rise	Laura
		6/09/2011	Etadunna	279700	6823300	NO SAMPLE, total alluvial channel	Laura
	57852	6/09/2011	Etadunna	280100	6823300	surface float, silcrete dominant, minor festone, mod veg, flat but rise to ENE, festone is conglomerate with qtz within	Laura
	57853	6/09/2011	Etadunna	280500	6823300	surface float, small rise, increase in conglom. Festone, still silcrete dom	Laura
	57854	6/09/2011	Etadunna	280900	6823300	surface float, mod-high veg, 50/50 festone and silcrete mod cover	Laura
	57855	6/09/2011	Etadunna	281310	6823300	surface float, festone, minor silcrete, mod veg cover, lag solid cover when there	Laura
	57856	6/09/2011	Etadunna	281700	6823300	minor lag, transported, high veg, fg festone, minor silcrete boulders, floodplain	Laura
	57857	6/09/2011	Etadunna	282100	6823300	surface float, lots of festone, mod veg cover, minor silcrete, minor goe on festone, flat terrain with minor undulations	Laura
	57858	6/09/2011	Etadunna	282485	6823300	transported, minor-med festone + minor silcrete +/- goe, high veg cover, channels nearby	Laura
	57859	6/09/2011	Etadunna	282900	6823300	between valleys N/S, low elevation change, colluvial, mod-high festone cover, minor silcrete, mod veg	Laura
	57860	6/09/2011	Etadunna	283300	6823300	surface float, festone +/- silcrete, mod veg, mod-high lag, undulying terrain	Laura
	57861	6/09/2011	Etadunna	283700	6823300	flat, mod-high festone cover, no silcrete, higher points N/S therefore lower plain inbtw	Laura
	57862	6/09/2011	Etadunna	284100	6823300	rise to SSW, festone mod-high cover, veg mod-high, surface float, down creek is to NNW, minor silcret	Laura
	57863	6/09/2011	Etadunna	284500	6823300	close to deep channel, festone on rise next to channel, mod-low veg, festone high cover with purple tinge	Laura
	57864	6/09/2011	Etadunna	284900	6823300	transported, area of creeks, vfg-fg festone, minor and scattered, high veg cover, 1.6mm sieve required to get chips	Laura
	57865	6/09/2011	Etadunna	285300	6823300	small rise, saprock weathered and bleached visible under festone and minor boulder silcrete + small gypsum exposures to N, minor lag, high veg cover	Laura
		6/09/2011	Etadunna	285700	6823300	SOIL	Laura
		6/09/2011	Etadunna	286100	6823300	NO SAMPLE, Alluvial floodplain	Laura

		6/09/2011	Etadunna	286500	6823300	SOIL	Laura
	57866	6/09/2011	Etadunna	286895	6823300	transportedfestone and silcrete, alluvial area, silcrete not so pink? Mbre pale pibn, minor goe	Laura
	57867	6/09/2011	Etadunna	287300	6823300	transported, flat btw small rise and river - colluvial, scattered outcrop mod cover and low-mod veg, very minor silcrete	Laura
	57868	6/09/2011	Etadunna	287700	6823300	crossed river channels from last point, surface float, festone, minor silcrete, mod lag cover, mod-high veg	Laura
	57869	6/09/2011	Etadunna	288100	6823300	surface float, high cover festone and silcrete (20%) minor veg, flat area	Laura
		6/09/2011	Etadunna	288500	6823300	SOIL	Laura
		6/09/2011	Etadunna	288900	6823300	SOIL	Laura
8	57701	7/09/2011	Etadunna	279300	6823700	Surface float, silcrete and some hematite	Darren
		7/09/2011	Etadunna	279700	6823700	NO SAMPLE, Washout	Darren
		7/09/2011	Etadunna	280100	6823700	NO SAMPLE, Washout	Darren
	57703	7/09/2011	Etadunna	280500	6823700	Surface float, hematite and silcrete, large samples	Darren
	57704	7/09/2011	Etadunna	280900	6823700	surface float, hematite and silcrete	Darren
	57705	7/09/2011	Etadunna	281300	6823700	surface float, hematite and silcrete	Darren
	57706	7/09/2011	Etadunna	281700	6823700	surface float, hematite and silcrete	Darren
	57707	7/09/2011	Etadunna	282100	6823700	surface float, hematite and silcrete	Darren
	57708	7/09/2011	Etadunna	282500	6823700	surface float, hematite solid cover on surface	Darren
	57709	7/09/2011	Etadunna	282900	6823700	surface float, hematite, dense cover	Darren
	57710	7/09/2011	Etadunna	283300	6823700	surface float, hematite and silcrete	Darren
	57711	7/09/2011	Etadunna	283700	6823700	surface float, hematite	Darren
	57712	7/09/2011	Etadunna	284100	6823700	surface float, hematite	Darren
	57713	7/09/2011	Etadunna	284500	6823700	surface float, hematite	Darren
	57714	7/09/2011	Etadunna	284900	6823700	surface float, hematite rubble (small)	Darren
	57715	7/09/2011	Etadunna	285290	6823766	moved north to get sample	Darren
		7/09/2011	Etadunna	285700	6823700	NO SAMPLE, Washout	Darren
		7/09/2011	Etadunna	286100	6823700	NO SAMPLE, Washout	Darren
		7/09/2011	Etadunna	286500	6823700	NO SAMPLE, Washout	Darren
	57716	7/09/2011	Etadunna	286900	6823700	surface float, hematite and silcrete	Darren
	57717	7/09/2011	Etadunna	287300	6823700	surface float, hematite and silcrete	Darren
	57718	7/09/2011	Etadunna	287700	6823700	surface float, hematite large pieces	Darren
		7/09/2011	Etadunna	288100	6823700	NO SMAPLE, Washout	Darren
		7/09/2011	Etadunna	288500	6823700	NO SAMPLE, Washout	Darren
	57719	7/09/2011	Etadunna	288900	6823700	surface float, hematite and silcrete	Darren
7	57720	7/09/2011	Etadunna	288900	6824100	surface float, hematite and silcrete	Darren
	57721	7/09/2011	Etadunna	288500	6824100	surface float, hematite and silcrete	Darren
		7/09/2011	Etadunna	288100	6824100	NO SAMPLE, washout	Darren
	57722	7/09/2011	Etadunna	287700	6824100	surface float, hematite and silcrete	Darren
		7/09/2011	Etadunna	287300	6824100	NO SAMPLE, washout	Darren
	57723	7/09/2011	Etadunna	286900	6824100	surface float, hematite and somesilcrete	Darren
	57724	7/09/2011	Etadunna	286500	6824100	surface float, hematite and somesilcrete	Darren
	57725	7/09/2011	Etadunna	286100	6824100	surface float, hematite and somesilcrete	Darren
	57726	7/09/2011	Etadunna	285700	6824100	surface float, hematite and somesilcrete	Darren
	57727	7/09/2011	Etadunna	285300	6824100	surface float, hematite and silcrete, lots of spinnifex	Darren
	57728	7/09/2011	Etadunna	284900	6824100	surface float, hematite and silcrete	Darren
	57729	7/09/2011	Etadunna	284500	6824100	surface float, hematite and silcrete	Darren
	57730	7/09/2011	Etadunna	284100	6824100	surface float, hematite	Darren
	57731	7/09/2011	Etadunna	283700	6824100	surface float, hematite and silcrete	Darren
	57732	7/09/2011	Etadunna	283300	6824100	surface float, hematite and silcrete	Darren
	57733	7/09/2011	Etadunna	282900	6824100	surface float, hematite and solid cover	Darren
	57734	7/09/2011	Etadunna	282500	6824100	surface float, hematite and solid cover	Darren
	57735	7/09/2011	Etadunna	282100	6824100	surface float, hematite and silcrete, solid cover	Darren
	57736	7/09/2011	Etadunna	281700	6824100	surface float, hematite and silcrete	Darren
	57737	7/09/2011	Etadunna	281300	6824100	surface float, hematite and silcrete	Darren
	57738	7/09/2011	Etadunna	280900	6824100	surface float, hematite and silcrete	Darren
	57739	7/09/2011	Etadunna	280500	6824100	surface float, silcrete, spinnifex ground cover	Darren
		7/09/2011	Etadunna	280100	6824100	NO SAMPLE, Washout	Darren
		7/09/2011	Etadunna	279700	6824100	NO SAMPLE, Floodplain	Darren
		7/09/2011	Etadunna	279300	6824100	NO SAMPLE, Floodplain	Darren
6		7/09/2011	Etadunna	279300	6824500	NO SAMPLE, FLOODPLAIN	Steve
		7/09/2011	Etadunna	279700	6824500	NO SAMPLE, FLOODPLAIN	Steve
		7/09/2011	Etadunna	280100	6824500	NO SAMPLE, FLOODPLAIN	Steve
		7/09/2011	Etadunna	280500	6824500	NO SAMPLE, FLOODPLAIN	Steve
	57649	7/09/2011	Etadunna	280900	6824500	Alluvial silcrete, Hematite S/F	Steve
	57650	7/09/2011	Etadunna	281300	6824500	surface float, silcrete, hematite, goethite (minor) minor sparse conglomerate (qtz)	Steve
	57666	7/09/2011	Etadunna	281700	6824500	surface float, silcrete, goethite ? Minor hematite and conglomerate (qtz	Steve

	57667	7/09/2011	Etadunna	282100	6824500	surface float, alluvial silcrete, hematite, conglomerate	Steve
	57668	7/09/2011	Etadunna	282500	6824500	surface float, alluvial hematite, silcrete, goethite	Steve
	57669	7/09/2011	Etadunna	282900	6824500	surface float, hematite, goethite, minor silcrete	Steve
	57670	7/09/2011	Etadunna	283300	6824500	surface float, minor silcrete, minor hematite, sparse goethite	Steve
	57671	7/09/2011	Etadunna	283700	6824500	surface float, silcrete, hematite	Steve
	57672	7/09/2011	Etadunna	284100	6824500	surface float, hematite, goethite, silcrete	Steve
	57673	7/09/2011	Etadunna	284500	6824500	surface float, alluvial hematite, silcrete, minor goethite and sandstone?	Steve
	57674	7/09/2011	Etadunna	284900	6824500	surface float, hematite, minor silcrete, goethite, conglomerate	Steve
	57675	7/09/2011	Etadunna	285300	6824500	surface float, hematite, goethite, minor silcrete	Steve
	57676	7/09/2011	Etadunna	285700	6824500	surface float, hematite, silcrete, minor goethite	Steve
	57677	7/09/2011	Etadunna	286100	6824500	surface float, hematite, minor silcrete and goethite	Steve
	57678	7/09/2011	Etadunna	286500	6824500	surface float, hematite and silcrete	Steve
	57679	7/09/2011	Etadunna	286900	6824500	hematite and silcrete	Steve
	57680	7/09/2011	Etadunna	287300	6824500	surface float, hematite, minor silcrete and goethite	Steve
	57681	7/09/2011	Etadunna	287700	6824500	surface float, maybe highly weathered outcrop goethite/hematite, minor silcrete ++LOOK AT	Steve
		7/09/2011	Etadunna	288100	6824500	NO SAMPLE, Channel/floodplain	Steve
	57682	7/09/2011	Etadunna	288500	6824500	weathred outcrop, hematite, goethite LOOK AT	Steve
	57683	7/09/2011	Etadunna	288910	6824500	surface float, possible weathered outcrop, goethite LOOK AT	Steve
5		7/09/2011	Etadunna	288900	6824900	NO SAMPLE, Alluvial Floodplain	Steve
		7/09/2011	Etadunna	288500	6824900	NO SAMPLE, Alluvial Floodplain	Steve
		7/09/2011	Etadunna	288100	6824900	NO SAMPLE, Alluvial Floodplain	Steve
		7/09/2011	Etadunna	287700	6824900	NO SAMPLE, Alluvial Floodplain	Steve
	57684	7/09/2011	Etadunna	287300	6824900	surface float, silcrete, hematite goethite	Steve
	57685	7/09/2011	Etadunna	286900	6824900	surface float, silcrete, hematite sparse goethite	Steve
	57686	7/09/2011	Etadunna	286500	6824900	surface float, hematite, goethite, minor silcrete	Steve
	57687	7/09/2011	Etadunna	286100	6824900	surface float, silcrete, hematite, minor goethite	Steve
	57688	7/09/2011	Etadunna	285700	6824900	surface float, hematite, silcrete, minor goethite?	Steve
	57689	7/09/2011	Etadunna	285300	6824900	surface float, hematite, minor goethite, silcrete	Steve
	57690	7/09/2011	Etadunna	284900	6824900	surface float, hematite, goethite, sparse silcrete	Steve
	57691	7/09/2011	Etadunna	284500	6824900	surface float, hematite, goethite	Steve
	57692	7/09/2011	Etadunna	284100	6824900	surface float, hematite, goethite, silcrete	Steve
	57693	7/09/2011	Etadunna	283700	6824900	surface float, hematite, goethite	Steve
	57694	7/09/2011	Etadunna	283300	6824900	surface float, hematite, goethite	Steve
	57695	7/09/2011	Etadunna	282900	6824900	surface float, hematite, goethite	Steve
	57696	7/09/2011	Etadunna	282500	6824900	surface float, hematite, goethite, minor silcrete	Steve
	57697	7/09/2011	Etadunna	282100	6824900	surface float, alluvial silcrete, hematite, silcrete, abundant fine qtz	Steve
	57698	7/09/2011	Etadunna	281700	6824900	surface float, hematite, silcrete, goethite, conglomerate qtz silcrete??	Steve
	57699	7/09/2011	Etadunna	281300	6824900	surface float, silcrete, hematite, goethite, minor qtz	Steve
	57700	7/09/2011	Etadunna	280900	6824900	alluvial surface float, hematite, silcrete, floodplain edge	Steve
		7/09/2011	Etadunna	280500	6824900	NO SAMPLE, CHANNEL	Steve
		7/09/2011	Etadunna	280100	6824900	NO SAMPLE, CHANNEL	Steve
		7/09/2011	Etadunna	279700	6824900	NO SAMPLE, CHANNEL	Steve
		7/09/2011	Etadunna	279300	6824900	NO SAMPLE, CHANNEL	Steve
4		7/09/2011	Etadunna	279300	6825300	SOIL	Laura
		7/09/2011	Etadunna	279700	6825300	NO SAMPLE, floodplain and alluvial sands e.g. qtz	Laura
		7/09/2011	Etadunna	280100	6825300	NO SAMPLE, floodplain/low lying area by channel - sands with clay on top, low scrub over drainage to E	Laura
		7/09/2011	Etadunna	280500	6825300	NO SAMPLE, other side of channels on floodplain other side, very undulating and sandu, low grasses and bushes, no soil profile, sand	Laura
	57797	7/09/2011	Etadunna	280900	6825300	transported, conglomerate, festone, silcrete (very rounded), in a channel/low lying area, less veg, minimal lag only	Laura
	57798	7/09/2011	Etadunna	281300	6825300	transported, round silcrete, conglomerate and festone, rounded and real mixture, low-mod veg, mod lag cover	Laura
	57799	7/09/2011	Etadunna	281700	6825300	small rise, surface float, festone, conglomerate, silcrete, low-mod veg, mod-high lag cover, silcrete also exhibits conglomerate nature??	Laura
	57800	7/09/2011	Etadunna	282075	6825300	low lying area within low hills, low-mod veg, mod cover, round lag, transportefestone, silcrete, conglomerate all broken up, coordinates changed+	Laura
	57870	7/09/2011	Etadunna	282500	6825300	surface float, dominant festone, low-mod veg, minor silcrete, solid cover, undulating terrain	Laura
	57871	7/09/2011	Etadunna	282900	6825300	transported and surface float (small hill) with gypsum nearby, tgfestone and boulder silrete, a flatter area with low-med veg cover, mod-high lag	Laura
	57872	7/09/2011	Etadunna	283310	6825300	surface float, hills around, sample taken near flat, chip size varies (finer grained downhill) almost all festone, silcrete noted higher up hill, soft soil underfoot	Laura
	57873	7/09/2011	Etadunna	283700	6825300	same as prev sample, mod-low veg, high cover, silcrete vis, sample site festone only with goe surfaces, chip size varies depending on hill position	Laura
	57874	7/09/2011	Etadunna	284100	6825300	top of rise, surface float, festone and pink silcrete minor only, larger grain size, solid cover, mod-low veg	Laura
	57875	7/09/2011	Etadunna	284500	6825300	top of rise, silcrete and festone (minor sillcrete) solid cover, mod-low veg, goe minor, soft underfoot	Laura

	57876	7/09/2011	Etadunna	284900	6825300	ridge (small) to SW, festone boulders and minor silcrete, mod lag, mod veg cover, undulying land, surface float	Laura
	57877	7/09/2011	Etadunna	285300	6825300	increase in silcrete boulder composition, festone, med-fg size solid cover, lower lying areas have more veg and higher have weathered bleached rock/gypsum exposurers under festone	Laura
	57878	7/09/2011	Etadunna	285700	6825300	on high point, surface float, inc in silcrete boulders, almost dominant, m-fgfestone chips, mod-high lag cover, mod veg cover	Laura
	57879	7/09/2011	Etadunna	286100	6825300	angular boulders, festone dominant hill, can see silcrete in the area surrounding, good lag cover, low to mod veg	Laura
	57880	7/09/2011	Etadunna	286500	6825300	high surface lag of 50/50 festone silcrete boulders gravel size, dominance varies in patches, low veg coverf, good solid lag cover, lots of goe on surfaces	Laura
	57881	7/09/2011	Etadunna	286900	6825300	on E slope of rise goingg toward veg/low lying area, still boulder festone and goe, lesser silcrete (angular fe)	Laura
		7/09/2011	Etadunna	287300	6825300	NO SAMPLE, flat claypan, cracked at surface, sporadic grasses	Laura
		7/09/2011	Etadunna	287700	6825300	NO SAMPLE, flat claypan, cracked at surface, sporadic grasses	Laura
		7/09/2011	Etadunna	288100	6825300	NO SAMPLE, flat claypan, cracked at surface, sporadic grasses	Laura
		7/09/2011	Etadunna	288500	6825300	NO SAMPLE, out of clay floodplain, now more in sandy area with increased low bush - very green	Laura
		7/09/2011	Etadunna	288900	6825300	NO SAMPLE, Still in floodplain, there is minor rubble qtz/silcrete (not pink) and minor festone if any, not worth taking	Laura
3	57882	7/09/2011	Etadunna	288900	6825700	Scattered lag, transported, small rise to west, silcrete not pink, plus festone + round qtz. High veg cover	Laura
		7/09/2011	Etadunna	288500	6825700	NO SAMPLE, back in sandy area, low bush and green as seen previous line	Laura
		7/09/2011	Etadunna	288100	6825700	NO SAMPLE, flat claypan, cracked at surface, sporadic grasses	Laura
		7/09/2011	Etadunna	287700	6825700	NO SAMPLE, flat claypan, cracked at surface, sporadic grasses	Laura
		7/09/2011	Etadunna	287300	6825700	NO SAMPLE, flat claypan, cracked at surface, sporadic grasses	Laura
		7/09/2011	Etadunna	286900	6825700	NO SAMPLE, flat claypan, but with more green vegetation and grasses	Laura
	57883	7/09/2011	Etadunna	286440	6825700	MMoved, first bit of hematite lag since claypan, so sampled. MMinor orpi silcrete, mod0high veg cover, when lag is present, solid cover.	Laura
	57884	7/09/2011	Etadunna	286100	6825700	dominant silcrete boulders, festone gravel (fg-boulder size) silcrete rounded, festone angular, low veg, mod-high cover, surface float, undulying area	Laura
	57885	7/09/2011	Etadunna	285700	6825700	festone solid cover, 10-15% silcrete, low-mod veg, undulating area, surface float	Laura
	57886	7/09/2011	Etadunna	285300	6825700	lag in solid cover in patches vs wholly veg covered. Boulder silcrete + f-mg festone	Laura
	57887	7/09/2011	Etadunna	284900	6825700	solid festone lag, goe visible, scattered veg piles surface float, area draining NNW on side of hill	Laura
	57888	7/09/2011	Etadunna	284500	6825700	undulating area, on side of hill, festone lag dominant, lots of foe on surfaces, low-mod veg, solid cover of lag	Laura
	57889	7/09/2011	Etadunna	284100	6825700	scattered festone lag, mod-high veg cover, small rise with drainage to N, goe visible	Laura
	57890	7/09/2011	Etadunna	283700	6825700	mod-high festone lag, minor boulder silcrete, mod veg cover, drainage to NNW, minor conglomerate grains	Laura
	57891	7/09/2011	Etadunna	283300	6825700	flat surface float, hill to E, small chips of festone and goe on surfaces, vminor silcrete, sparse veg, solid cover	Laura
	57892	7/09/2011	Etadunna	282900	6825700	very scattered lag - transported. Silcrete is dull light pink/gy. Festone is vfg, silcrete = large boulders, mod cover veg. Lag mixed in with soils. Conglom starting to become more prevalant	Laura
		7/09/2011	Etadunna	282500	6825700	SOIL	Laura
	57893	7/09/2011	Etadunna	282100	6825700	small wide rise, very pior silcrete + festone similar size. MMed boulder lag cover, surface float	Laura
	57894	7/09/2011	Etadunna	281700	6825700	flat area, mod-high veg, festone dominant + silcrete mod lag cover, can be scattered, conglomerate present	Laura
	57895	7/09/2011	Etadunna	281270	6825700	very scattered outcrop, dominant silcrete + sstone, very minor festone, mod veg cover, area of transported chips and seds	Laura
		7/09/2011	Etadunna	280900	6825700	SOIL	Laura
		7/09/2011	Etadunna	280500	6825700	NO SAMPLE, floodplain by river, last sample of soils was at start of floodplain	Laura
		7/09/2011	Etadunna	280100	6825700	NO SAMPLE, edge of creek, very sandy	Laura
		7/09/2011	Etadunna	279700	6825700	SOIL (floodplain)	Laura
		7/09/2011	Etadunna	279300	6825700	NO SAMPLE, Floodplain	Laura
2		8/09/2011	Etadunna	279300	6826100	NO SAMPLE, Floodplain	Darren
		8/09/2011	Etadunna	279700	6826100	NO SAMPLE, Floodplain	Darren
		8/09/2011	Etadunna	280100	6826100	NO SAMPLE, Floodplain	Darren
		8/09/2011	Etadunna	280500	6826100	NO SAMPLE, Floodplain	Darren
		8/09/2011	Etadunna	280900	6826100	NO SAMPLE, Floodplain	Darren
	57740	8/09/2011	Etadunna	281300	6826100	surface float, hematite and silcret	Darren
	57741	8/09/2011	Etadunna	281700	6826100	surface float, hematite and silcrete	Darren
	57742	8/09/2011	Etadunna	282100	6826100	surface float, hematite and silcrete	Darren

		8/09/2011	Etadunna	282500	6826100	NO SAMPLE, Floodplain	Darren
	57743	8/09/2011	Etadunna	282900	6826100	scattered surface float, hematite and silcrete	Darren
	57744	8/09/2011	Etadunna	283300	6826100	surface float, hematite and silcrete	Darren
	57745	8/09/2011	Etadunna	283700	6826100	surface float, solid cover, hematite and silcrete	Darren
	57746	8/09/2011	Etadunna	284100	6826100	surface float, solid cover, hematite and silcrete	Darren
	57747	8/09/2011	Etadunna	284500	6826100	surface float, solid cover, hematite and silcrete	Darren
	57748	8/09/2011	Etadunna	284900	6826100	surface float, hematite and silcrete	Darren
	57749	8/09/2011	Etadunna	285300	6826100	surface float, hematite and silcrete	Darren
	57750	8/09/2011	Etadunna	285700	6826100	surface float, hematite and silcrete	Darren
	57896	8/09/2011	Etadunna	286100	6826100	scattered surface float, hematite and silcrete	Darren
		8/09/2011	Etadunna	286500	6826100	NO SAMPLE, Floodplain	Darren
		8/09/2011	Etadunna	286900	6826100	NO SAMPLE, Floodplain	Darren
		8/09/2011	Etadunna	287300	6826100	NO SAMPLE, Floodplain	Darren
		8/09/2011	Etadunna	287700	6826100	NO SAMPLE, Floodplain	Darren
		8/09/2011	Etadunna	288100	6826100	NO SAMPLE, Floodplain	Darren
		8/09/2011	Etadunna	288500	6826100	NO SAMPLE, Floodplain	Darren
		8/09/2011	Etadunna	288900	6826100	NO SAMPLE, Floodplain	Darren
1	57801	8/09/2011	Etadunna	279300	6826500	surface float, hematite, silcrete, goethite, minor qtz	Steve
		8/09/2011	Etadunna	279700	6826500	NO SAMPLE, Floodplain	Steve
		8/09/2011	Etadunna	280100	6826500	NO SAMPLE, Floodplain	Steve
		8/09/2011	Etadunna	280500	6826500	NO SAMPLE, Floodplain	Steve
		8/09/2011	Etadunna	280900	6826500	NO SAMPLE, Floodplain	Steve
		8/09/2011	Etadunna	281300	6826500	NO SAMPLE, Floodplain	Steve
	57802	8/09/2011	Etadunna	281710	6826500	silcrete, minor hematite, qtz, transported alluvial	Steve
	57803	8/09/2011	Etadunna	282100	6826500	surface float, hematite, silcrete, fine sparse qtz, alluvial	Steve
	57804	8/09/2011	Etadunna	282500	6826500	surface float,hematite and silcrete	Steve
		8/09/2011	Etadunna	282900	6826500	NO SAMPLE, Floodplain	Steve
	57805	8/09/2011	Etadunna	283300	6826500	surface float, hematite, silcrete, goethite	Steve
	57806	8/09/2011	Etadunna	283700	6826500	surface float, alluvial, hematite, silcrete, minor qtz conglomerate	Steve
	57807	8/09/2011	Etadunna	284100	6826500	surface float, hematite, goethite, silcrete	Steve
	57808	8/09/2011	Etadunna	284500	6826500	surface float, hematite, goethite, minor silcrete	Steve
		8/09/2011	Etadunna	284900	6826500	NO SAMPLE, Floodplain	Steve
	57809	8/09/2011	Etadunna	285300	6826500	surface float, alluvial, hematite, silcrete, goethite	Steve
		8/09/2011	Etadunna	285700	6826500	NO SAMPLE, Floodplain	Steve
		8/09/2011	Etadunna	286100	6826500	NO SAMPLE, Floodplain	Steve
		8/09/2011	Etadunna	286500	6826500	NO SAMPLE, Floodplain	Steve
		8/09/2011	Etadunna	286900	6826500	NO SAMPLE, Floodplain	Steve
		8/09/2011	Etadunna	287300	6826500	NO SAMPLE, Floodplain	Steve
		8/09/2011	Etadunna	287700	6826500	NO SAMPLE, Floodplain	Steve
		8/09/2011	Etadunna	288100	6826500	NO SAMPLE, Floodplain	Steve
		8/09/2011	Etadunna	288500	6826500	NO SAMPLE, Floodplain	Steve
		8/09/2011	Etadunna	288900	6826500	NO SAMPLE, Floodplain	Steve

APPENDIX 3

Magnetics Survey Data

Etadunna Merge-Mag

- Final grid file for the Etadunna ground-mag areas.

Survey datasets can be found in the following XYZ files, attached with this report.

- 20110904_ET
    - Etadunna ground-mag survey line 3

- 20110906_ET
    - Etadunna ground-mag survey line 2 (minus first 700m from the west)

- 20110907_ET
    - Etadunna ground-mag survey line 2 (first 700m from the west)

- 20110908_ET
    - Etadunna ground mag survey lines 1 and 6

- 20110909_ET
    - Etadunna ground mag survey lines 4 and 5

EURO

EXPLORATION

SERVICES

INTERPRETATION REPORT

ETADUNNA ROCK CHIP SAMPLING and GROUND MAGNETICS SURVEY

For: Posar Family Superannuation.

November 2011

INTRODUCTION

This report discusses results from exploration survey work conducted by Euro Exploration Services during early September 2011 for Posar Family Superannuation on their Etadunna Tenement, EL 4767, situated approximately 110 kilometres north-east of Marree. Details of the geochemical sampling and ground magnetics are included in an earlier operations report (Klinberg, 2011).

BACKGROUND

EL4767 includes an area of approximately 50 square kilometres of unusually high development of iron-rich material, strikingly evident across the peneplain environment (Figure 1) and also from the air (Figure 2 – GoogleEarth).

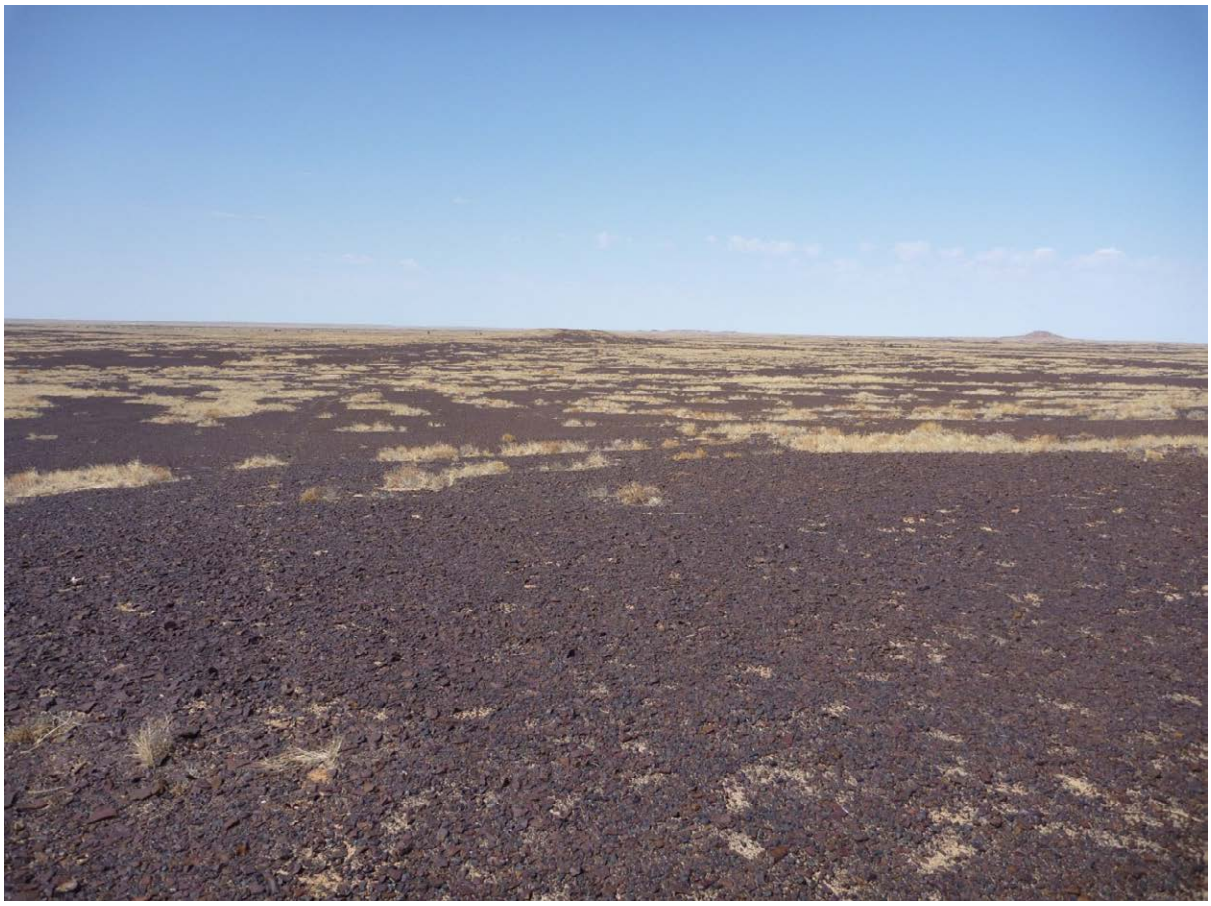


Figure 1: The general ironstone lag terrain over the Etadunna survey area, with Mt Marion in the background (top right), Looking approximately south-west.

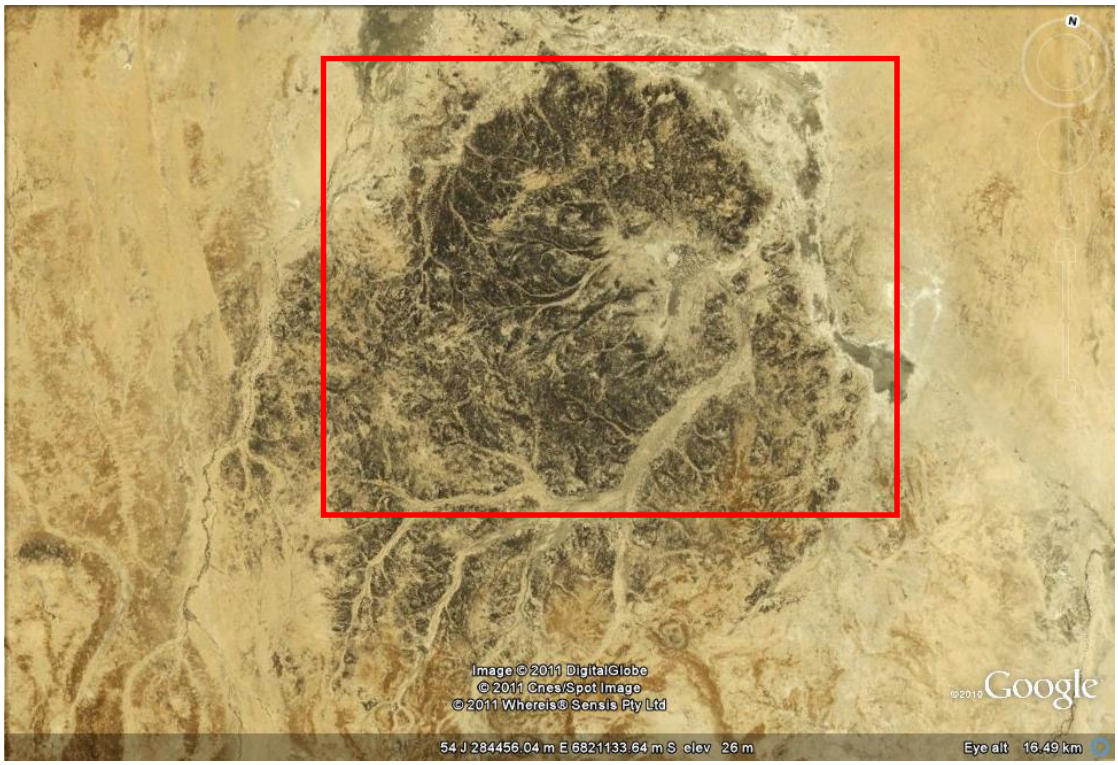


Figure 2: GoogleEarth image showing ironstone area and the sampling grid within tenement EL 4767.

Geologically, the region lies within the southern portion of the Warburton Basin, overlying basement rocks of the Adelaide Geosyncline, at likely depths in excess of 1000metres vertically. Surface outcrop within the area of interest is predominantly shales and silts of the Cretaceous age Winton Group exposed within a broad domal structure, with Tertiary sediments exposed to the northeast and to the west–Figure 3. The entire area is transected by broad alluvium /drainages.

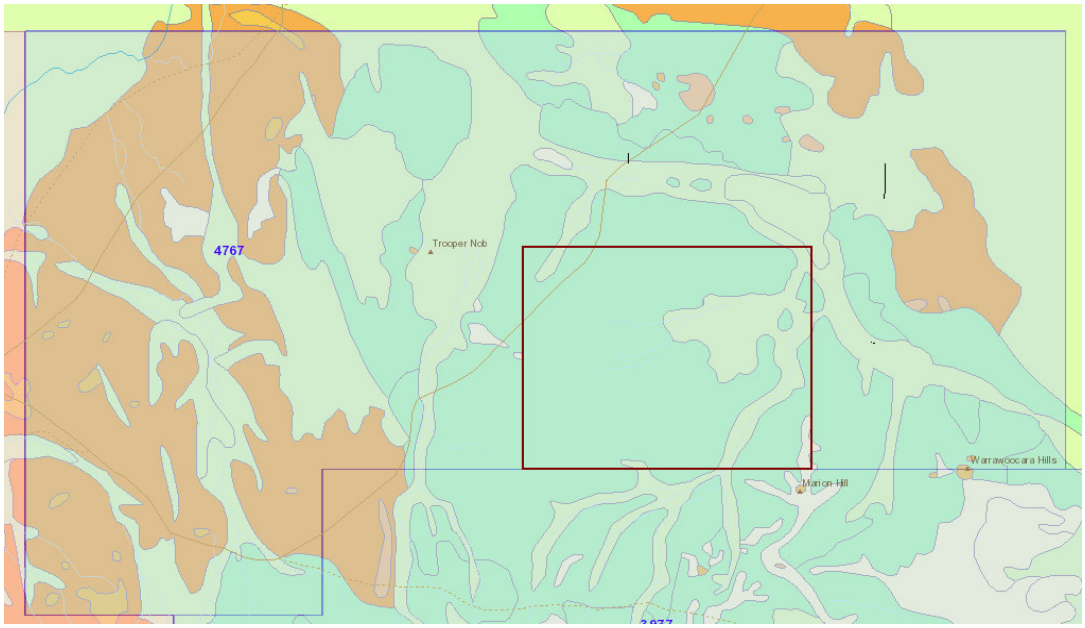


Figure 3 – Regional Surface outcrop geology – EL 4767

AEROMAGNETICS

Aeromagnetic data are available from PIRSA for the license area, but unfortunately these data are from poor quality, wide spacing surveys conducted in the 1960's and 70's. Total magnetic intensity data for the region are included in Figure 4 and these data have been further processed in Figure 5 in an attempt to highlight possible local magnetic anomalies that may reflect iron-rich source rocks.

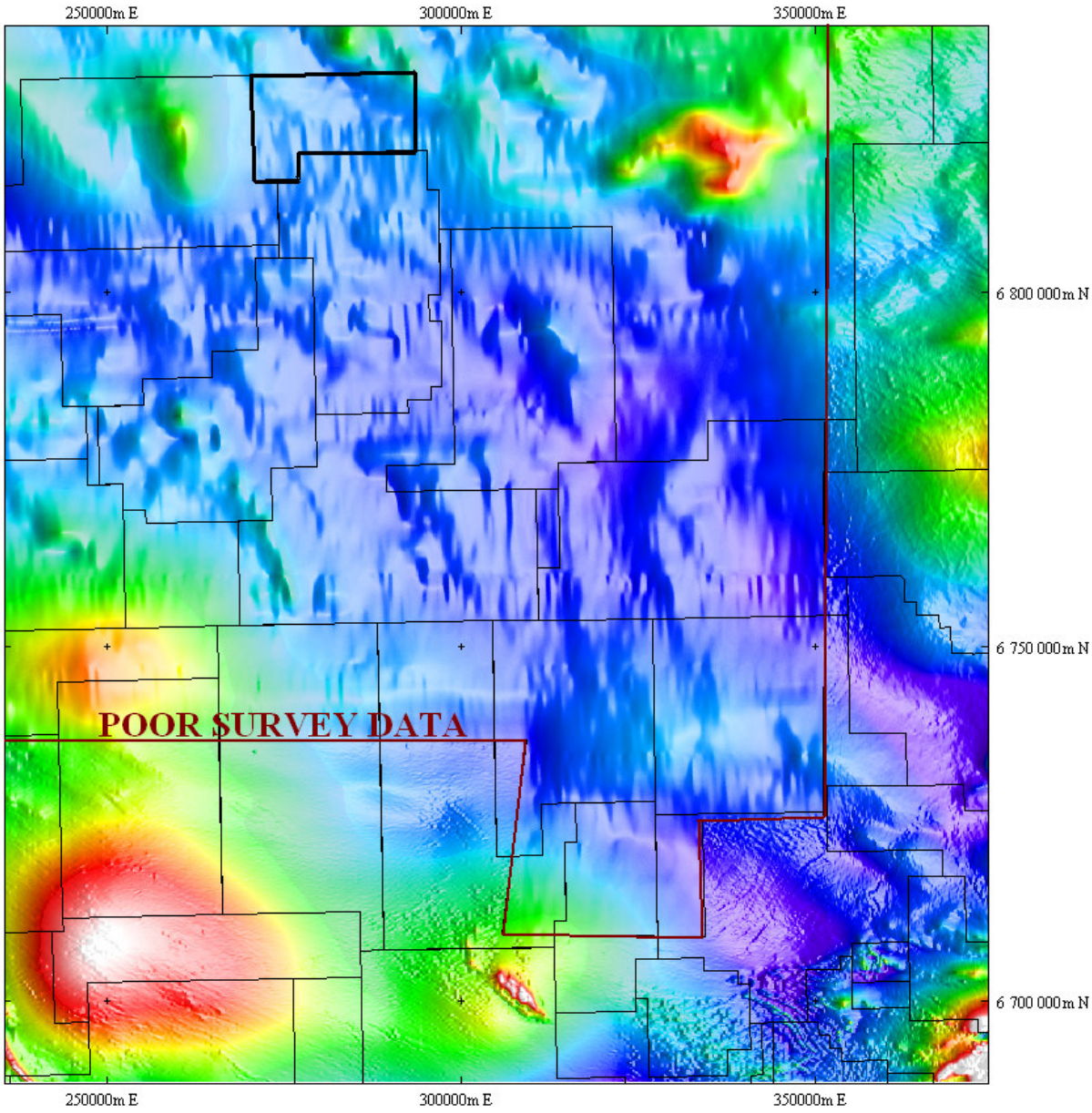


Figure 4 – PIRSA aeromagnetic data (TMI) showing location for EL4767 in broad aeromagnetic low zone.

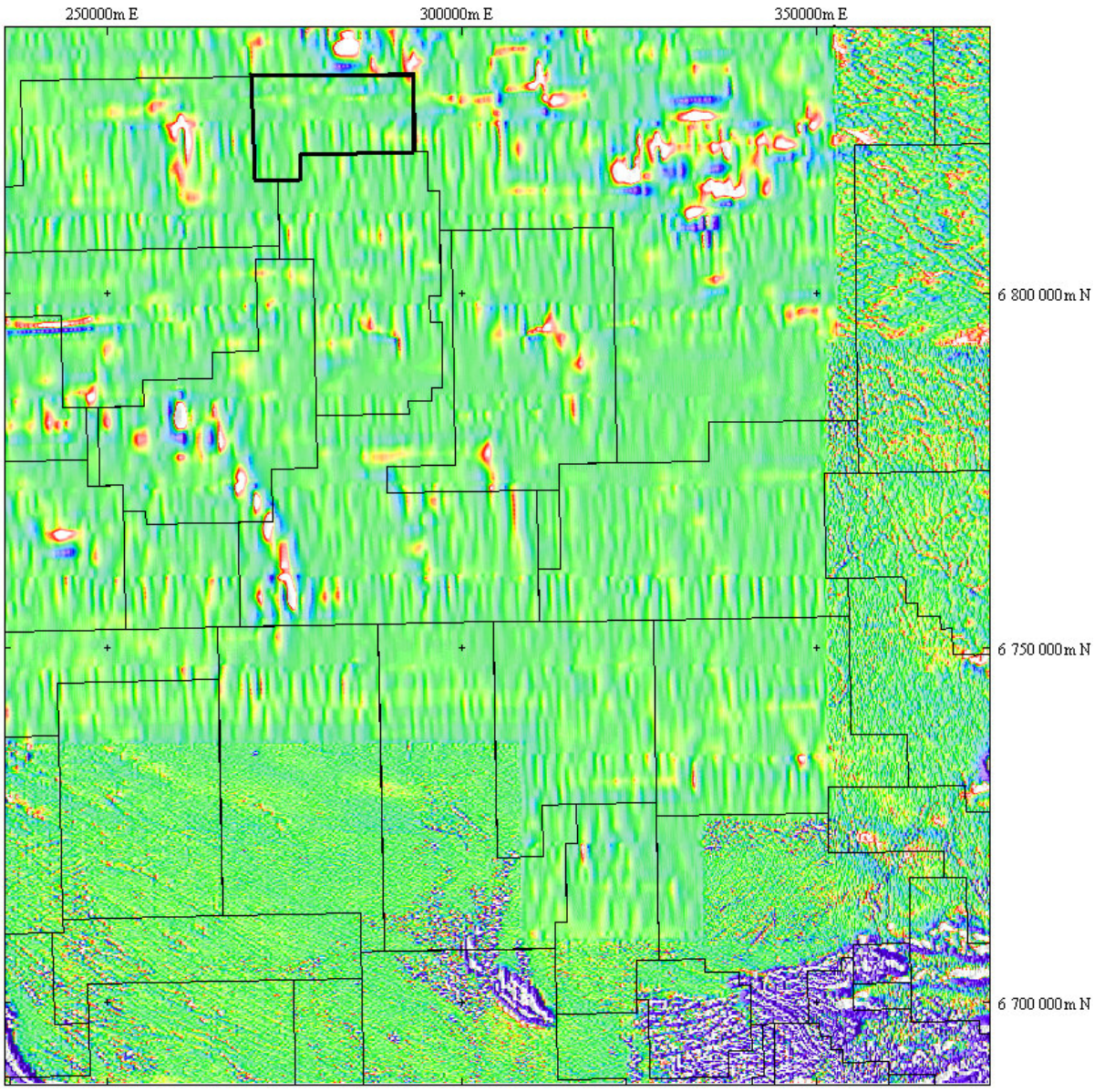


Figure 5 – Processed aeromagnetic data

Although the data quality over the area of EL4767 is poor, comparison with the broader region covered by the area of Figures4 and 5 does not indicate any significant magnetic source rocks within the license area.

GEOCHEMISTRY

A total of 352 samples of the surface iron-stone material were collected at nominal 400metre centres, as described by Klinberg (op cit). These samples were assayed for a suite of elements by the XRF technique, primarily for iron grades and elements deleterious to iron products (particularly SiO2,P,Al2O3and S/LOI).An additional multi-element suite was run using the ICP-MS technique to assess lower level distribution of a range of base metal and path-finder elements for precious metal mineralisation. A further ICP assay was run on every 20th sample to test for very low level gold distribution (detection level 1 ppb Au).

IRON

Results for iron assay levels against SiO2 levels and against P and Al2O3 levels are included in Figures 6 and 7 respectively, and the spatial distribution for iron levels is summarised in Figure 8. Statistically, approximately 33% of samples returned an Fe level in excess of 50%, however only a small portion (3 samples) returned 55% or more.

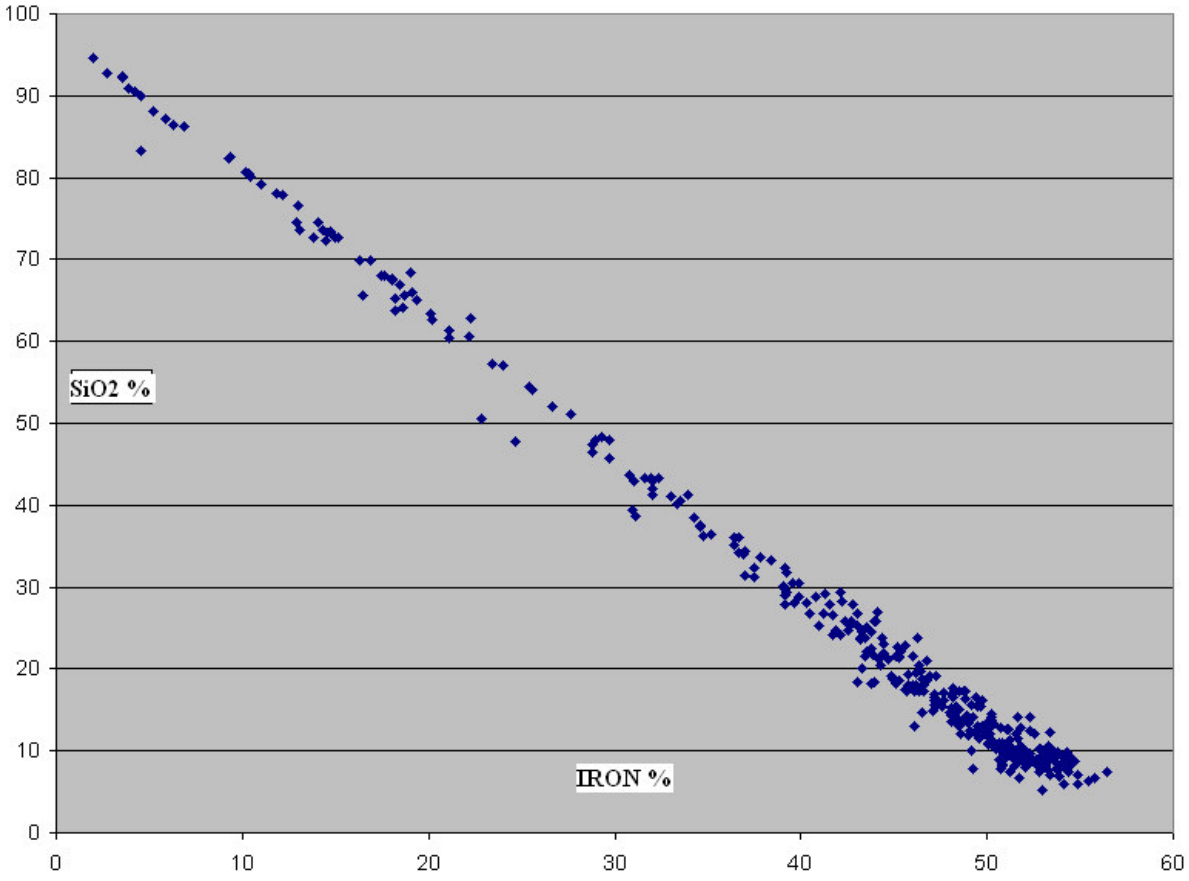


Figure 6 – Iron Content vs Silica

For iron levels above 50% Fe, it is apparent that silica levels are between 5 and 10 %, with an average of approximately 8%.

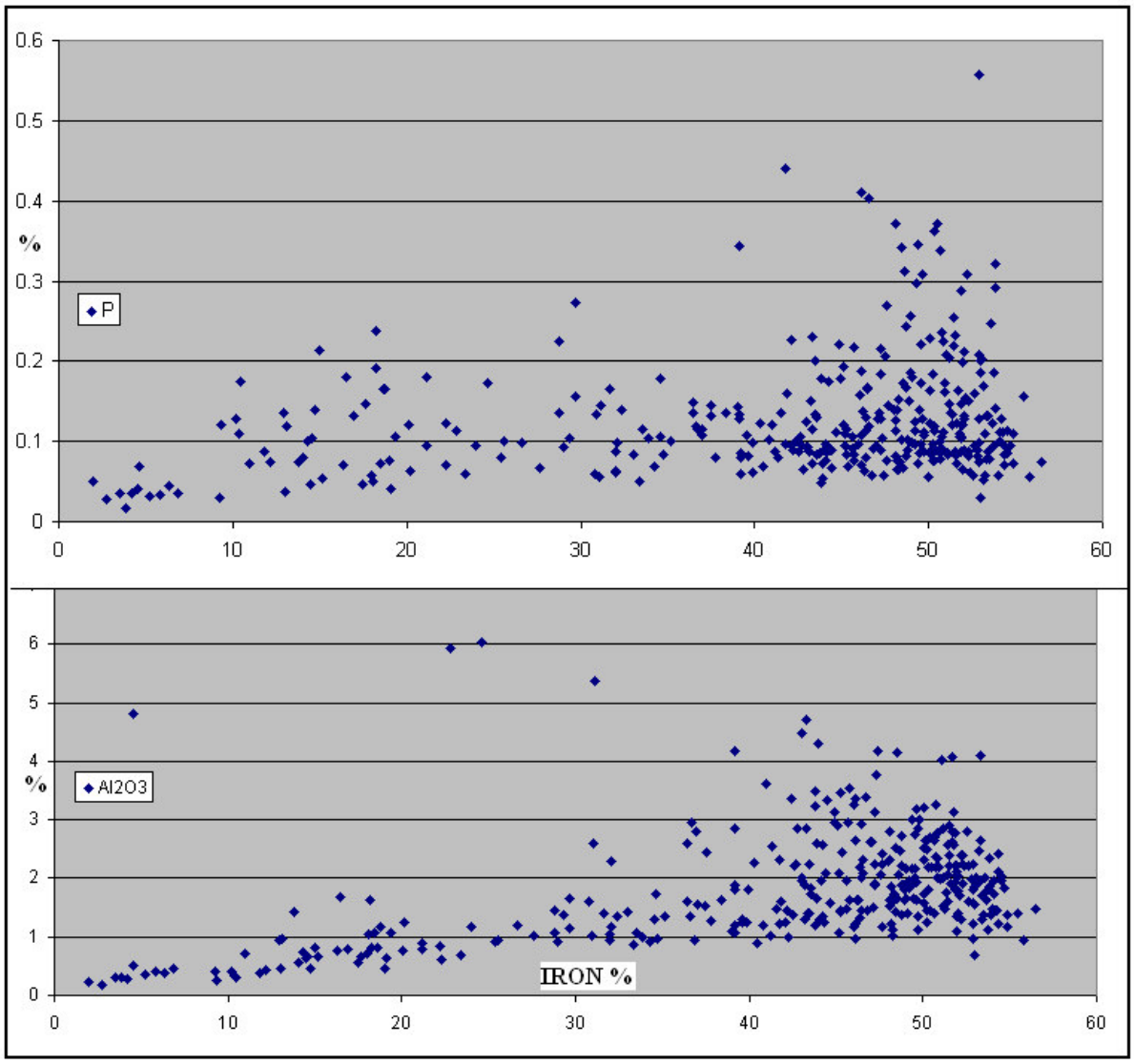


Figure 7 – Iron Content vs Phosphorous (P) and Al2O3

For iron levels above 50%, there is a high scatter in levels for both Phosphorous and Al2O3, with approximate average levels of 0.13% and 2% respectively. These levels are significantly higher than ideal, for hematite ore.

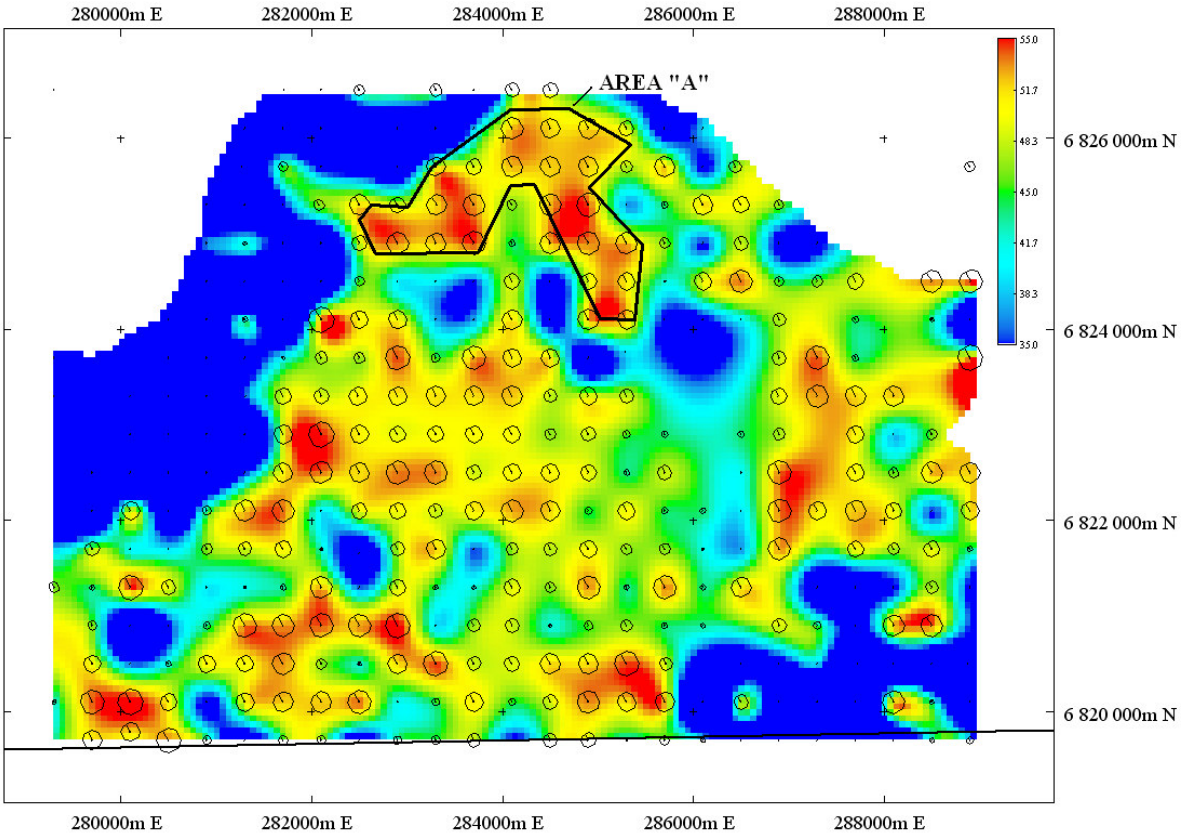


Figure 8 – Sample sites and Iron assay distribution –areas in red potentially greater than 50% Fe.

Figure 8 outlines a number of zones with potential for iron grades consistently above 50% Fe –the most extensive of these is defined in the northern portion of the area, as “Area A”. Assuming an average thickness of iron material of 1m from surface,and a density of 3g/T, this area of approximately 2.5 square kilometres represents an exploration target of 7.5mT of material, with a likely grade of 50% Fe. Geological evidence for the ironstone thickness however (Klinberg op cit) suggests that it will be variable, and unlikely to average more than 0.2 metres – a significant issue for potential resource tonnages.

PRECIOUS AND BASE METAL GEOCHEMISTRY

Review of the multi-element geochemical data has delineated a broadly arcuate zone of elevated Ag/Cu/Mo/Au (partial) results in the south-western portion of the survey coverage. Results for silver are summarised in Figure 9A, incorporating a posting of the 20 sample results assayed for gold. These data delineate a low order, but continuous, silver anomaly – with the only two elevated gold results (0.013 and 0.009 ppm in a background of 0.001-0.003) occurring in close proximity to the silver trend. Figure 9B illustrates that this silver zone is partially supported in copper results, but more particularly a strongly Molybdenum anomaly is indicated in the western portion of the zone (peak response of 58ppm in a background of 2-4ppm).

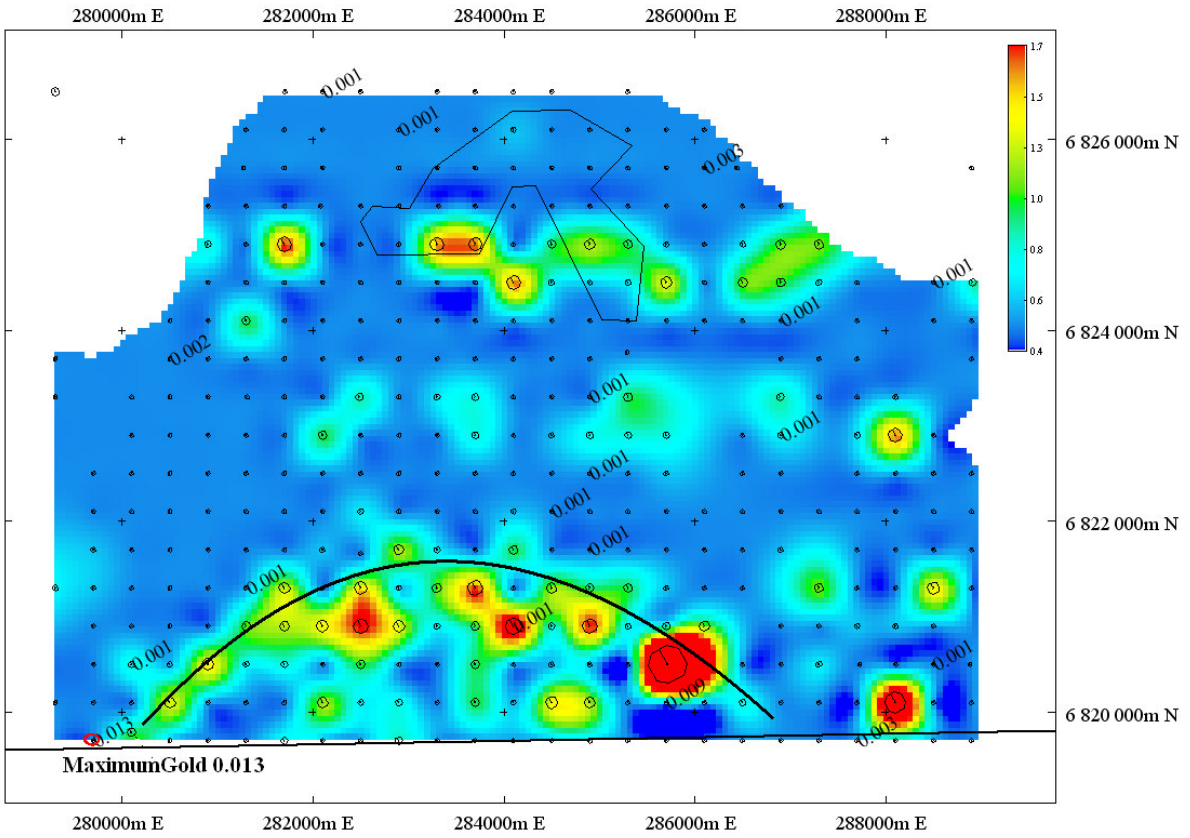


FIGURE 9A - PRECIOUS METALS – Ag Image and Au values (20samples) posted

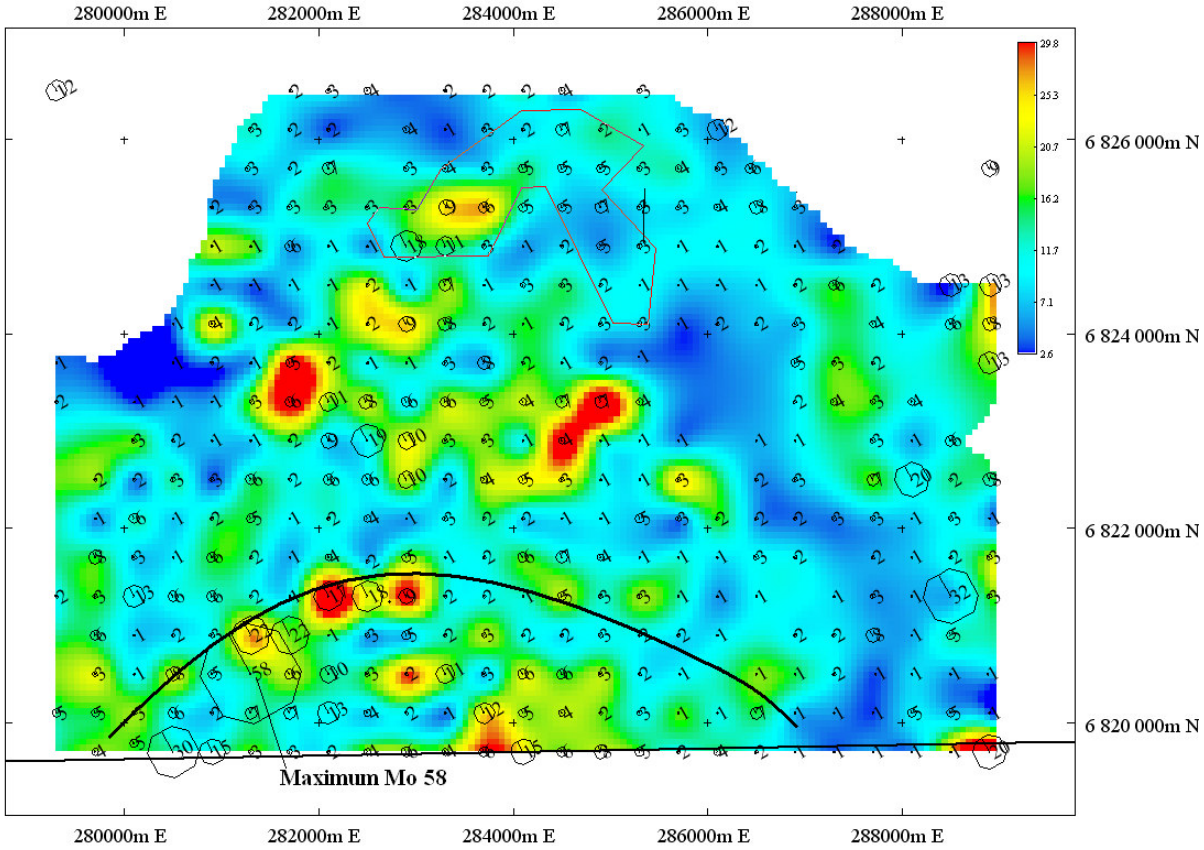


FIGURE 9B -BASE METALS – Cu Image and Mo values posted

GROUND MAGNETICS

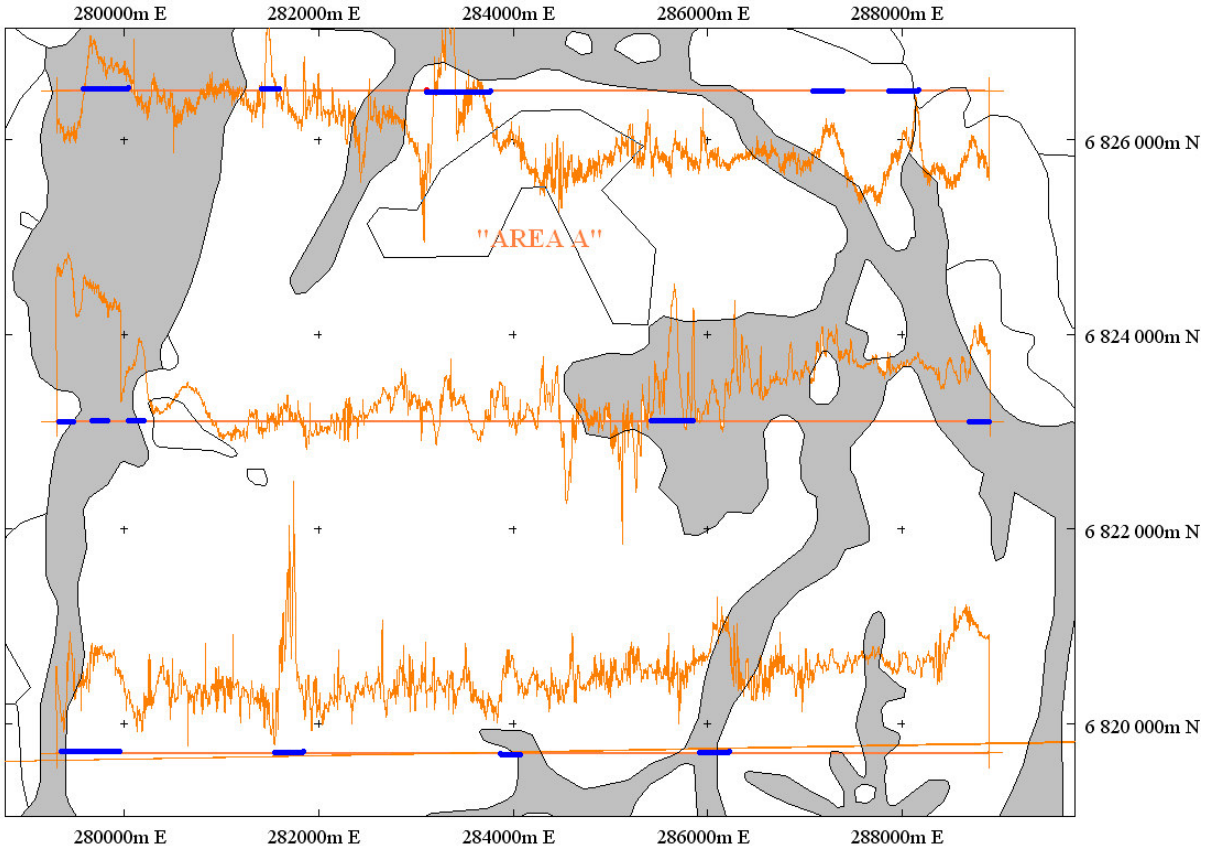


Figure 10 – Ground Magnetic Profiles – showing anomalous positions on line, and Quaternary channel outlines (PIRSA).

The ground magnetic profiles were recorded as a trial to determine if concentrations or thickening of the surface outcropping iron rich material could be detected by this technique. In particular, it was felt that Quaternary to Recent alluvial creek systems crossing the area could localise ironstone accumulation. Figure 10 shows the magnetic profile results, with anomalous positions marked on the profile base-lines, overlying the distribution of Quaternary drainage channels. Although the profile coverage is limited, a number of local magnetically increased areas are evident within channel positions. A relatively strong, wide magnetic zone is indicated to the immediate NW of the “Area A” zone of higher iron results, near the southern edge of an east-west trending channel.

DISCUSSION AND RECOMMENDATIONS

The Etadunna ironstone occurrence is an unusual accumulation of iron, within a geological district where no known iron source rocks are thought to occur – a geological “oddity”. Surface sample assay results have delineated areas where average iron content of this material may be expected to be consistently in excess of 50 % Fe, which may be considered as ore grade for a surficial mining operation. Levels of deleterious minerals, in particular phosphorus and aluminium oxide, are however significantly higher than is commonly acceptable. The issue of thickness of the iron stone development beneath what is exposed at the surface is also an issue for development of significant tonnages. As a first step in further evaluation of the project, a metallurgical view on the

marketability of iron with these levels of P/Al2O3 and /or the commercial viability of processing to reduce these levels should be considered.

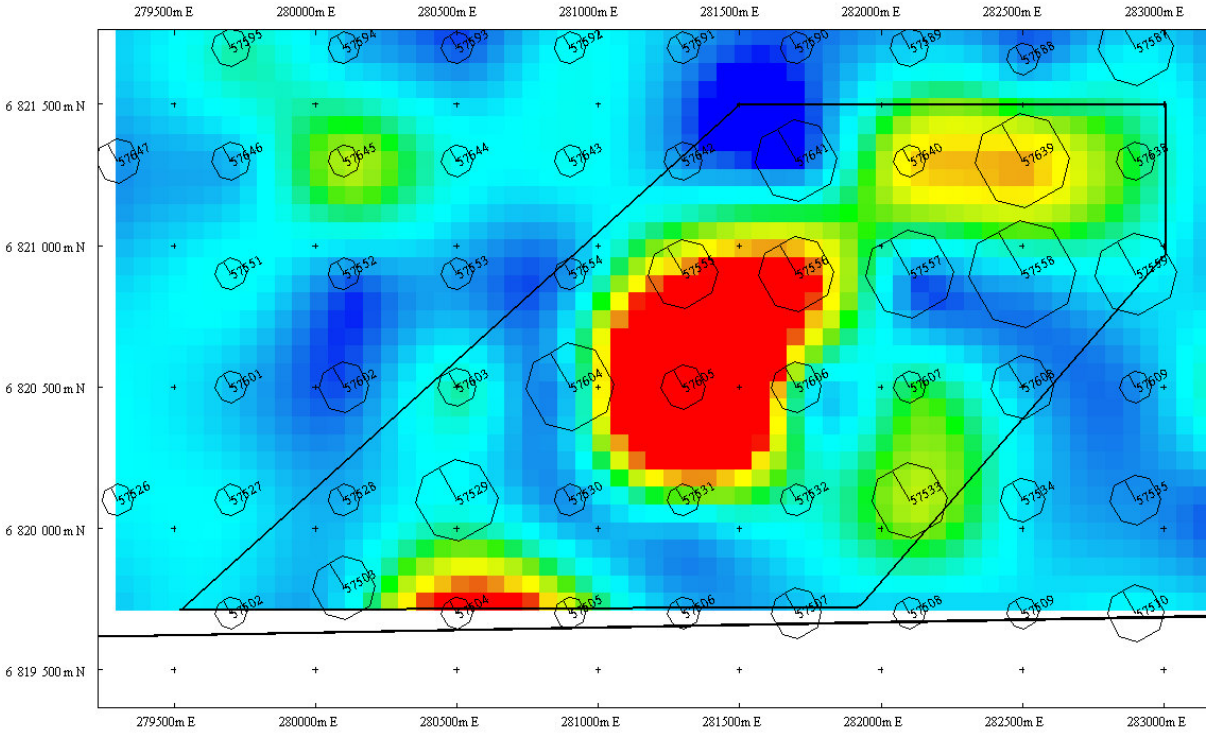
The anomalous geochemical zone delineated in the southwest limit of the sampling program warrants further evaluation. Although conventional regional geological “understanding” would suggest that Palaeozoic and older rocks that might be considered as favourable host rocks for a source of this geochemical anomalism are at excessive depth (1km or more) within the area, the level of anomalism is such that consideration should be given to considering non-conventional possibilities, including significantly shallower Palaeozoic source rocks or mineralisation associated with more recent host sequences. More detailed sampling of both ironstone and conventional soils is recommended for the area as detailed in the attached Appendix A as the logical next step – as the anomaly zone extends to the southern boundary of EL4767, a joint venture approach to the holders of the licence to the south (EL3977) should also be considered.

Reference:

Klingberg,L. Sept 2011 “OPERATIONS REPORT ETADUNNA ROCK CHIP SAMPLING and GROUND MAGNETICS SURVEY”.

APPENDIX A

INFILL SAMPLING PROPOSAL



Molybdenum (image) and silver posting.

Zoned arcuate Cu,Ag geochem zone with strong Mo – consistent with young “porphyry” style intrusive. Mo results define most anomalous position in current data, centred 800m north of tenement boundary.

Infill sampling on 200x100 m centres for target area as shown – collecting ironstone “lag” and conventional soils recommended –approximately 250 sites,2 samples per site.

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Finalized Date: 16-OCT-2011
This copy reported on 20-OCT-2011
Account: POSFAM

CERTIFICATE AD11185025

Project: Etadunna

P.O. No.:

This report is for 358 Rock samples submitted to our lab in Adelaide, SA, Australia on 14-SEP-2011.

The following have access to data associated with this certificate:

TONY HILL	LAURA KLINGBERG	SANDRA POSAR

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
PUL-23	Pulv Sample - Split/Retain
CRU-21	Crush entire sample >70% -6 mm
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-GRA05	H2O/LOI by TGA furnace	TGA
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP61	33 element four acid ICP-AES	ICP-AES
ME-XRF21n	Iron Ore by XRF Fusion	XRF

To: **POSAR FAMILY SUPERANNUATION PTY LTD**
ATTN: SANDRA POSAR
PO BOX 271
INNISFAIL QLD 4860

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Wayne Abbott, Operations Manager, Western Australia

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Project: Etadunna

CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	WEI-21	PUL-QC	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n
	Analyte	Recvd Wt.	Pass75um	Al2O3	As	Ba	CaO	Cl	Co	Cr2O3	Cu	Fe	K2O	MgO	Mn	Na2O
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.01	0.001	0.005
57502		1.32		1.48	0.004	2.22	0.94	0.045	0.004	0.005	0.007	51.26	0.14	0.48	0.258	0.091
57503		2.27		2.86	0.003	0.531	0.74	0.034	0.005	0.003	0.006	51.20	0.23	0.42	0.471	0.144
57504		1.58		2.42	0.003	0.088	0.70	0.194	0.005	0.002	0.006	54.31	0.17	0.46	1.165	0.098
57505		1.81		3.14	0.003	0.296	1.16	0.743	0.004	0.003	0.004	44.95	0.19	0.49	1.020	0.558
57506		1.55	87.0	5.92	0.002	0.615	0.75	0.046	0.003	0.023	0.002	22.82	0.77	0.64	0.215	0.355
57507		1.88		1.97	0.003	1.345	0.98	0.081	0.005	0.003	0.006	45.62	0.17	0.46	0.503	0.239
57508		1.69		1.08	0.003	0.975	0.70	0.090	0.004	0.003	0.006	45.17	0.08	0.22	0.215	0.063
57509		1.78		6.03	0.003	0.519	0.86	0.070	0.002	0.004	0.002	24.64	0.73	0.65	0.251	0.366
57510		1.52		2.95	0.003	0.797	1.06	0.262	0.004	0.011	0.006	44.88	0.25	0.45	0.378	0.255
57511		2.31		2.91	0.004	1.275	0.87	0.217	0.004	0.009	0.005	45.09	0.28	0.48	0.331	0.267
57512		1.68		2.32	0.005	1.425	1.28	0.073	0.005	0.016	0.007	48.11	0.19	0.44	0.471	0.095
57513		2.13		5.38	0.002	0.298	0.67	0.277	0.005	0.011	0.004	31.14	0.54	0.66	0.440	0.553
57514		2.23		2.81	0.003	1.225	0.60	0.123	0.005	0.013	0.006	48.10	0.20	0.34	0.250	0.124
57515		1.78		2.73	0.004	0.861	0.91	0.198	0.004	0.033	0.009	48.74	0.19	0.39	0.391	0.188
57516		1.64		3.62	0.002	0.627	0.64	0.255	0.004	0.004	0.004	40.98	0.41	0.45	0.275	0.470
57517		2.80		3.53	0.003	0.358	0.52	0.431	0.004	0.010	0.004	45.74	0.34	0.58	0.321	0.418
57518		1.04		2.22	0.002	0.338	1.64	0.286	0.004	0.013	0.006	42.63	0.15	0.42	0.678	0.215
57519		0.97		0.72	0.001	0.590	0.34	0.043	0.003	0.010	0.002	18.00	0.06	0.13	0.110	0.063
57520		1.41		0.71	0.001	0.328	0.44	0.010	0.002	0.009	0.001	10.98	0.06	0.07	0.112	0.022
57521		1.49		0.23	<0.001	0.294	0.32	<0.001	0.002	0.005	<0.001	2.01	0.02	0.03	0.034	0.011
57522		1.70		0.30	<0.001	0.253	0.34	<0.001	0.002	0.007	<0.001	3.52	0.02	0.02	0.029	<0.005
57523		1.37		0.30	<0.001	0.255	0.34	<0.001	0.001	0.011	<0.001	3.53	0.02	0.03	0.031	0.010
57524		1.59		2.01	0.003	0.452	0.46	0.068	0.002	<0.001	0.007	43.00	0.13	0.18	0.186	0.092
57525		1.57		1.95	0.003	0.466	0.49	0.051	0.004	0.033	0.005	44.12	0.15	0.19	0.195	0.102
57526		1.76		3.36	0.003	0.334	0.66	0.265	0.003	<0.001	0.007	42.40	0.23	0.32	0.311	0.230
57527		1.27		2.11	0.003	0.104	0.56	0.138	0.003	<0.001	0.008	54.35	0.18	0.41	0.232	0.082
57528		1.29		1.48	0.002	0.100	0.62	0.134	0.004	0.013	0.004	56.48	0.11	0.42	0.247	0.090
57529		1.17		2.52	0.003	0.131	1.25	0.237	0.002	<0.001	0.007	50.06	0.17	0.51	0.330	0.190
57530		1.14		2.60	0.004	0.659	1.38	0.072	<0.001	<0.001	<0.001	31.07	0.05	<0.01	0.170	<0.005
57531		0.99		3.26	0.003	0.152	0.66	0.093	0.004	<0.001	0.008	50.76	0.18	0.34	0.369	0.070
57532		0.98		3.13	0.002	0.152	0.68	0.093	0.005	0.009	0.006	51.80	0.21	0.35	0.380	0.064
57533		1.35		2.39	0.003	0.123	0.99	0.103	0.005	<0.001	0.007	52.23	0.16	0.48	0.274	0.092
57534		1.22		2.33	0.003	0.124	1.06	0.106	0.006	0.014	0.005	53.81	0.19	0.48	0.285	0.110
57535		1.12		0.88	0.002	0.575	1.34	0.091	0.003	0.039	0.003	40.49	0.07	0.33	0.192	0.043
57536		1.02		1.24	0.003	0.775	1.00	0.079	0.004	0.061	0.004	44.34	0.09	0.31	0.159	0.049
57537		0.99		2.35	0.004	0.589	1.66	0.118	0.005	0.004	0.006	50.85	0.13	0.48	0.456	0.066
57538		0.86		2.56	0.003	1.120	0.80	0.431	0.004	0.006	0.006	44.25	0.23	0.37	0.325	0.392
57539		1.42		2.48	0.003	1.125	1.12	0.157	0.005	0.004	0.007	48.66	0.22	0.41	0.365	0.170
57540		1.02		2.46	0.003	0.896	0.83	0.083	0.005	0.003	0.006	53.25	0.17	0.26	0.199	0.067
57541		0.94		4.02	0.002	0.209	0.86	0.273	0.003	0.006	0.004	51.09	0.25	0.36	0.294	0.182

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	Analyte	Ni	P	Pb	S	SiO2	Sn	Sr	TiO2	V	Zn	Zr	Total	LOI	Au	Ag
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm
	LOR	0.001	0.001	0.001	0.001	0.05	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.5
57502		0.006	0.135	0.012	0.828	7.38	<0.001	0.234	0.09	0.016	0.010	0.008	100.00	10.48	0.013	0.5
57503		0.005	0.204	0.014	0.190	11.35	<0.001	0.068	0.18	0.015	0.010	0.007	100.00	8.49		1.0
57504		0.006	0.094	0.009	0.079	9.93	<0.001	0.047	0.14	0.006	0.012	0.003	99.99	5.98		<0.5
57505		0.005	0.179	0.007	0.218	18.80	<0.001	0.091	0.35	0.007	0.011	0.016	100.00	7.41		<0.5
57506		0.014	0.114	0.009	0.238	50.5	<0.001	0.092	0.48	0.013	0.009	0.036	99.96	5.79		<0.5
57507		0.004	0.105	0.011	0.638	17.50	<0.001	0.138	0.27	0.007	0.008	0.013	100.00	8.83		0.8
57508		0.005	0.094	0.016	0.486	22.7	<0.001	0.120	0.29	0.016	0.008	0.018	100.05	7.17		<0.5
57509		0.002	0.172	0.005	0.186	47.7	<0.001	0.070	0.44	0.025	0.010	0.025	100.00	5.95		<0.5
57510		0.009	0.221	0.014	0.342	19.20	<0.001	0.126	0.26	0.018	0.012	0.016	100.00	8.11		0.9
57511		0.009	0.194	0.008	0.439	18.20	<0.001	0.136	0.23	0.017	0.012	0.013	99.98	8.37		<0.5
57512		0.012	0.371	0.014	0.423	13.65	<0.001	0.132	0.19	0.029	0.013	0.013	99.99	8.51		<0.5
57513		0.012	0.144	0.012	0.136	38.6	<0.001	0.072	0.36	0.016	0.012	0.019	99.96	6.58		<0.5
57514		0.013	0.126	0.013	0.450	15.25	<0.001	0.149	0.22	0.011	0.011	0.012	100.00	8.17		<0.5
57515		0.033	0.168	0.006	0.397	13.80	<0.001	0.180	0.15	0.013	0.009	0.012	99.99	8.50		0.6
57516		0.005	0.120	0.009	0.295	25.2	<0.001	0.091	0.22	0.006	0.009	0.012	100.00	7.89		<0.5
57517		0.009	0.077	0.007	0.210	18.10	<0.001	0.116	0.21	0.003	0.008	0.008	100.00	8.74		<0.5
57518		0.010	0.106	0.013	0.142	25.3	0.001	0.053	0.29	0.008	0.009	0.013	99.98	6.43		<0.5
57519		0.015	0.057	0.011	0.240	67.4	0.001	0.062	0.67	0.003	0.006	0.031	99.96	3.07		<0.5
57520		0.004	0.072	0.009	0.192	79.1	0.002	0.040	0.63	0.004	0.006	0.045	100.00	1.94		<0.5
57521		0.001	0.050	0.009	0.151	94.7	0.002	0.019	0.54	0.002	0.002	0.033	99.99	0.30		<0.5
57522		0.001	0.036	0.010	0.186	92.3	0.003	0.016	0.57	0.004	0.002	0.033	100.05	0.50	0.003	<0.5
57523		0.005	0.036	0.009	0.184	92.2	0.004	0.016	0.57	0.004	0.003	0.034	99.97	0.48		<0.5
57524		0.003	0.092	<0.001	0.215	26.7	<0.001	0.080	0.34	0.009	0.012	0.011	99.96	6.84		<0.5
57525		0.080	0.096	0.007	0.220	27.0	<0.001	0.089	0.36	0.006	0.013	0.009	99.98	4.74		<0.5
57526		0.036	0.100	0.004	0.152	25.8	<0.001	0.052	0.26	0.010	0.007	0.016	100.00	6.69		<0.5
57527		0.011	0.070	0.002	0.147	8.08	<0.001	0.061	0.11	0.009	0.007	0.004	100.00	9.52		<0.5
57528		0.023	0.075	0.007	0.154	7.35	<0.001	0.070	0.08	0.004	0.007	0.002	100.00	7.79		<0.5
57529		0.016	0.087	0.002	0.567	10.95	<0.001	0.064	0.12	0.005	0.006	0.006	99.98	10.11		1.3
57530		<0.001	0.055	<0.001	0.374	43.0	<0.001	0.058	0.22	<0.001	<0.001	<0.001	100.00	6.15		0.5
57531		0.006	0.106	0.005	0.198	12.85	<0.001	0.040	0.20	0.010	0.010	0.011	100.00	8.23		<0.5
57532		0.008	0.110	0.013	0.203	12.90	<0.001	0.046	0.21	0.006	0.011	0.010	100.00	6.70		<0.5
57533		0.009	0.308	0.002	0.166	8.34	<0.001	0.067	0.13	0.009	0.011	0.007	100.00	10.87		1.2
57534		0.013	0.322	0.011	0.172	8.45	<0.001	0.078	0.14	0.005	0.012	0.005	99.99	8.31		0.7
57535		0.024	0.069	0.007	0.756	26.7	<0.001	0.158	0.36	0.003	0.006	0.013	99.96	8.99		0.8
57536		0.047	0.089	0.008	0.623	23.7	<0.001	0.156	0.33	0.004	0.011	0.012	99.97	6.56		<0.5
57537		0.007	0.224	0.009	0.653	8.41	<0.001	0.233	0.13	0.030	0.014	0.007	100.00	10.13		1.0
57538		0.005	0.174	0.014	0.408	20.5	0.001	0.182	0.22	0.012	0.010	0.016	100.00	7.81		0.6
57539		0.006	0.243	0.016	0.442	13.45	<0.001	0.160	0.16	0.013	0.010	0.011	99.98	8.53		1.4
57540		0.004	0.110	0.012	0.535	8.64	<0.001	0.160	0.13	0.007	0.010	0.006	100.00	8.11		1.2
57541		0.005	0.084	0.010	0.208	12.60	<0.001	0.083	0.22	0.002	0.009	0.005	100.00	6.68		<0.5

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%
	LOR	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01	10	0.01
57502		0.86	7	5090	1.1	<2	0.68	1.3	16	8	19	>50	<10	0.13	10	0.28
57503		1.57	11	5130	1.2	<2	0.52	1.6	20	12	16	>50	<10	0.20	10	0.23
57504		1.35	6	930	1.0	<2	0.48	0.9	25	8	14	>50	<10	0.15	<10	0.25
57505		1.73	6	2900	0.8	2	0.81	1.6	27	14	12	46.5	<10	0.17	10	0.27
57506		3.13	11	5830	1.0	<2	0.52	<0.5	16	24	18	21.7	10	0.62	20	0.34
57507		1.10	<5	2280	1.1	<2	0.68	1.5	26	11	10	47.1	<10	0.15	10	0.25
57508		0.52	7	2130	0.7	<2	0.42	1.2	15	6	10	39.7	<10	0.06	10	0.10
57509		3.16	12	4910	2.1	<2	0.59	<0.5	17	23	21	23.1	10	0.59	20	0.34
57510		1.61	8	7550	1.0	<2	0.74	1.3	21	15	21	46.1	<10	0.22	10	0.24
57511		1.60	12	6090	1.1	<2	0.65	<0.5	19	15	21	45.5	<10	0.23	20	0.26
57512		1.42	16	5240	1.3	<2	1.04	<0.5	18	14	32	>50	<10	0.17	30	0.26
57513		2.92	11	2880	1.2	<2	0.47	0.7	30	24	24	32.0	10	0.45	20	0.35
57514		1.54	8	4430	0.9	<2	0.42	1.2	23	14	17	49.8	<10	0.17	10	0.19
57515		1.42	7	8090	1.1	<2	0.64	0.9	22	11	21	>50	<10	0.19	10	0.21
57516		2.04	<5	6200	1.1	<2	0.45	1.2	21	15	16	43.8	10	0.35	10	0.26
57517		1.92	<5	3480	0.9	<2	0.36	1.1	14	13	10	47.1	10	0.30	10	0.32
57518		1.19	6	3140	0.8	<2	1.11	0.8	13	10	15	43.1	<10	0.13	10	0.21
57519		0.39	<5	5020	0.5	<2	0.24	<0.5	10	21	10	17.45	<10	0.06	10	0.07
57520		0.38	6	3110	0.6	<2	0.31	0.6	11	27	8	10.65	<10	0.05	10	0.05
57521		0.13	<5	2900	<0.5	<2	0.23	<0.5	1	20	3	2.16	<10	0.02	10	0.02
57522		0.17	<5	2460	<0.5	<2	0.24	<0.5	1	30	6	3.60	<10	0.02	10	0.02
57523		0.12	5	2780	<0.5	<2	0.23	<0.5	1	23	3	2.34	<10	0.02	20	0.01
57524		1.04	5	4340	1.3	<2	0.33	0.8	17	9	30	43.8	<10	0.13	10	0.11
57525		0.74	<5	630	1.0	2	0.63	1.5	70	8	54	49.3	<10	0.10	<10	0.16
57526		1.84	<5	3350	1.0	<2	0.50	1.2	14	18	14	46.4	10	0.23	10	0.18
57527		0.87	<5	1090	1.0	2	0.43	0.5	17	6	15	>50	<10	0.11	<10	0.24
57528		1.72	11	6770	1.0	2	0.55	0.9	21	18	19	37.3	<10	0.28	10	0.28
57529		1.38	<5	1330	0.8	3	0.93	1.0	15	9	9	>50	<10	0.18	<10	0.28
57530		0.78	<5	3070	0.6	4	0.38	0.9	13	8	7	31.8	<10	0.10	10	0.12
57531		1.68	<5	1450	0.9	<2	0.45	<0.5	21	14	14	>50	<10	0.18	10	0.18
57532		1.13	<5	5830	1.0	2	0.50	0.7	15	6	10	>50	<10	0.15	10	0.14
57533		1.28	<5	1230	2.0	<2	0.73	0.7	38	7	10	>50	<10	0.17	10	0.26
57534		0.51	<5	830	0.8	<2	0.95	1.0	15	10	7	42.6	<10	0.06	<10	0.18
57535		0.79	6	1130	2.1	<2	0.77	0.9	13	11	9	43.6	<10	0.08	<10	0.19
57536		1.02	<5	2170	1.3	<2	0.61	1.1	17	16	4	35.2	<10	0.11	10	0.10
57537		1.57	18	3870	1.2	<2	1.33	1.1	18	10	26	>50	<10	0.13	10	0.30
57538		1.71	9	2590	1.3	<2	0.66	0.9	15	17	18	46.7	<10	0.21	20	0.23
57539		1.59	12	4560	1.2	<2	0.88	1.1	21	14	20	48.4	<10	0.20	10	0.24
57540		1.68	<5	1670	1.0	2	0.69	0.9	15	16	17	>50	10	0.16	10	0.17
57541		2.69	<5	2510	1.2	<2	0.70	1.3	11	19	11	>50	10	0.25	<10	0.24

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10	1
57502		2440	4	0.10	25	1390	12	0.48	<5	3	2270	<20	0.05	<10	<10	186
57503		4130	5	0.13	33	1980	15	0.19	<5	4	662	<20	0.11	<10	10	172
57504		10600	30	0.10	29	930	4	0.08	<5	3	474	<20	0.09	<10	20	93
57505		9570	15	0.48	25	1740	5	0.21	<5	4	905	<20	0.18	<10	10	106
57506		1990	3	0.29	19	1080	12	0.22	<5	6	863	<20	0.25	<10	10	164
57507		4480	3	0.20	19	1020	4	0.37	<5	3	1280	<20	0.14	<10	<10	96
57508		1720	2	0.06	15	780	12	0.27	<5	2	955	<20	0.12	<10	<10	149
57509		2310	4	0.29	21	1610	24	0.17	<5	6	661	<20	0.23	<10	<10	256
57510		3510	6	0.22	25	2140	18	0.33	<5	5	1190	<20	0.15	<10	10	200
57511		2880	4	1.30	29	1790	25	0.29	<5	4	1200	<20	0.12	<10	<10	196
57512		4340	6	1.06	38	3670	33	0.23	<5	5	1270	<20	0.10	<10	<10	320
57513		3970	15	0.45	41	1400	24	0.13	<5	6	705	<20	0.20	<10	10	182
57514		2330	6	0.12	26	1240	16	0.27	<5	4	1410	<20	0.12	<10	<10	137
57515		3560	8	0.17	31	1680	14	0.39	<5	3	1900	<20	0.09	<10	<10	121
57516		2630	5	0.41	24	1190	17	0.30	<5	5	924	<20	0.13	<10	<10	96
57517		3000	2	0.35	17	740	11	0.20	<5	4	1120	<20	0.12	<10	<10	64
57518		5830	4	0.18	13	1000	12	0.13	<5	3	512	<20	0.16	<10	10	104
57519		1030	2	0.05	19	540	8	0.21	<5	2	572	<20	0.35	<10	<10	57
57520		1020	1	0.03	17	680	11	0.18	<5	2	370	<20	0.34	<10	10	77
57521		323	1	0.02	8	480	7	0.14	<5	1	198	<20	0.31	<10	<10	39
57522		260	1	0.02	11	350	8	0.17	<5	2	169	<20	0.32	<10	10	69
57523		283	1	0.02	4	430	7	0.17	<5	1	234	<20	0.34	<10	<10	38
57524		1750	1	0.09	23	900	10	0.20	<5	3	848	<20	0.21	<10	<10	89
57525		5590	20	0.09	85	640	2	0.15	<5	2	760	<20	0.12	<10	10	54
57526		3150	5	0.22	19	1050	10	0.16	<5	4	591	<20	0.16	<10	10	100
57527		2350	5	0.09	22	770	<2	0.15	<5	2	725	<20	0.05	<10	10	81
57528		2510	3	0.24	35	1420	15	0.31	<5	4	1150	<20	0.18	<10	<10	139
57529		3220	6	0.18	19	920	<2	0.58	<5	3	735	<20	0.08	<10	<10	47
57530		1820	2	0.08	17	620	6	0.27	<5	2	868	<20	0.15	<10	<10	77
57531		3430	7	0.07	36	1050	4	0.19	<5	5	441	<20	0.12	<10	<10	88
57532		4550	7	0.12	11	1360	3	0.33	<5	3	987	<20	0.09	<10	<10	61
57533		2600	13	0.10	51	3130	<2	0.18	<5	5	761	<20	0.08	<10	10	84
57534		1790	4	0.05	16	680	3	0.63	<5	2	1510	<20	0.19	<10	<10	61
57535		1610	2	0.25	24	900	9	0.46	<5	3	1470	<20	0.16	<10	<10	80
57536		2280	1	0.46	21	840	4	0.35	<5	3	374	<20	0.22	<10	<10	54
57537		4590	12	0.78	26	2370	14	0.63	5	5	2390	<20	0.08	<10	<10	347
57538		3370	5	0.81	22	1880	30	0.22	9	4	1850	<20	0.13	<10	<10	162
57539		3520	4	0.95	26	2490	32	0.28	5	4	1540	<20	0.09	<10	<10	165
57540		2160	2	0.37	23	1200	20	0.38	6	4	1630	<20	0.08	<10	<10	117
57541		3020	3	0.63	12	930	9	0.22	<5	5	886	<20	0.14	<10	<10	63

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61
	Analyte	W	Zn
	Units	ppm	ppm
	LOR	10	2
57502		<10	46
57503		<10	56
57504		<10	71
57505		<10	71
57506		<10	56
57507		<10	35
57508		<10	27
57509		<10	76
57510		<10	67
57511		10	78
57512		<10	82
57513		<10	89
57514		<10	55
57515		<10	51
57516		<10	56
57517		<10	44
57518		<10	37
57519		<10	30
57520		20	32
57521		10	2
57522		<10	4
57523		<10	3
57524		<10	98
57525		10	317
57526		10	44
57527		<10	31
57528		<10	58
57529		<10	24
57530		<10	30
57531		<10	55
57532		<10	37
57533		<10	72
57534		<10	28
57535		<10	73
57536		10	68
57537		<10	105
57538		<10	62
57539		<10	51
57540		<10	58
57541		<10	55

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	WEI-21	PUL-QC	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n
	Analyte	Recvd Wt.	Pass75um	Al2O3	As	Ba	CaO	Cl	Co	Cr2O3	Cu	Fe	K2O	MgO	Mn	Na2O
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.01	0.001	0.005
57542		1.39		4.07	0.003	0.146	0.50	0.131	0.003	0.081	0.004	51.65	0.30	0.20	0.223	0.313
57543		1.47		4.80	<0.001	0.078	0.38	0.243	0.002	0.041	<0.001	4.53	0.72	0.38	0.063	0.722
57544		1.15		4.15	0.002	0.073	0.91	0.114	0.004	0.008	0.005	48.53	0.34	0.39	0.477	0.195
57545		1.05		0.63	0.001	0.426	0.32	0.031	0.001	<0.001	0.004	19.11	0.03	0.05	0.125	0.027
57546		0.98	96.0	0.52	<0.001	0.411	0.29	0.026	0.002	0.013	0.001	4.58	0.05	0.05	0.056	0.059
57547		1.46		0.40	0.001	0.301	0.48	0.008	0.002	0.003	0.001	9.24	0.03	0.05	0.054	0.016
57548		1.27		2.66	0.003	0.161	0.75	0.126	0.004	0.084	0.006	53.30	0.20	0.28	0.200	0.108
57549		1.09		2.85	0.004	0.166	0.44	0.100	0.003	<0.001	0.002	42.80	0.18	0.18	0.364	0.104
57550		1.31		0.45	0.001	0.296	0.24	0.009	0.001	<0.001	<0.001	6.86	0.04	0.03	0.059	0.023
57551		1.23		3.47	0.004	0.172	0.61	0.055	0.003	<0.001	0.004	45.28	0.26	0.29	0.247	0.164
57552		1.19		0.63	0.002	0.576	0.57	0.013	0.002	<0.001	0.002	14.50	0.05	0.08	0.076	0.035
57553		1.12		1.73	0.003	0.781	0.60	0.061	0.003	<0.001	0.004	34.61	0.13	0.26	0.216	0.088
57554		1.26		1.35	0.003	1.065	1.04	0.104	0.002	<0.001	0.007	44.20	0.10	0.28	0.223	0.104
57555		1.54		1.73	0.004	0.171	0.49	0.097	0.006	0.022	0.005	54.06	0.14	0.40	0.501	0.122
57556		0.93		1.70	0.005	0.146	0.76	0.162	0.007	<0.001	0.005	53.40	0.11	0.30	1.630	0.105
57557		1.14		1.37	0.003	0.503	1.07	0.103	0.004	<0.001	0.005	53.88	0.09	0.51	0.234	0.074
57558		1.50		4.09	0.002	0.050	0.29	0.120	0.003	<0.001	0.005	53.28	0.10	0.23	0.176	0.098
57559		1.08		0.95	0.002	0.107	0.59	0.115	0.004	<0.001	0.004	55.80	0.05	0.42	0.288	0.062
57560		1.07		1.10	0.002	0.489	1.22	0.121	0.003	0.014	0.004	39.04	0.09	0.31	0.187	0.078
57561		1.14		2.05	0.004	1.165	0.91	0.186	0.004	<0.001	0.006	47.54	0.15	0.40	0.326	0.180
57562		1.17		1.62	0.002	0.563	0.59	0.120	0.003	<0.001	0.004	48.11	0.12	0.27	0.192	0.089
57563		1.00		1.23	0.002	0.528	0.78	0.074	0.003	<0.001	0.004	41.73	0.08	0.25	0.243	0.046
57564		1.10		1.42	0.003	0.699	1.22	0.144	0.003	<0.001	0.003	45.27	0.10	0.33	0.242	0.144
57565		1.19		2.62	0.003	0.508	0.63	0.104	0.002	<0.001	0.007	46.95	0.16	0.25	0.197	0.059
57566		1.05		1.84	0.002	0.621	0.71	0.088	0.003	0.004	0.004	43.53	0.13	0.25	0.254	0.056
57567		1.06		2.23	0.002	0.496	0.62	0.143	0.002	0.015	0.004	42.69	0.18	0.35	0.545	0.182
57568		1.12		1.89	0.002	0.399	0.48	0.139	0.003	<0.001	0.004	48.74	0.12	0.27	0.424	0.084
57569		1.32		3.33	0.002	0.197	0.54	0.084	0.002	<0.001	0.004	44.45	0.26	0.28	0.183	0.143
57570		1.09		2.28	0.002	0.738	0.60	0.034	0.001	<0.001	0.002	32.02	0.22	0.28	0.242	0.349
57571		1.08		2.81	0.002	0.114	0.47	0.132	0.003	<0.001	0.004	52.53	0.18	0.26	0.456	0.136
57572		1.10		0.98	0.003	0.477	1.34	0.066	0.004	<0.001	0.005	52.87	0.05	0.25	0.286	0.041
57573		1.13		4.47	0.002	0.122	1.10	0.199	0.007	0.001	0.005	43.07	0.39	0.60	0.423	0.377
57574		1.16		2.01	0.003	1.495	0.71	0.161	0.003	<0.001	0.006	49.51	0.15	0.24	0.356	0.139
57575		1.05		1.46	0.002	0.419	0.64	0.055	0.002	<0.001	0.003	46.78	0.11	0.18	0.301	0.052
57576		1.20		2.17	0.002	0.225	0.50	0.206	0.003	<0.001	0.003	49.41	0.15	0.29	0.455	0.211
57577		1.06		2.01	0.003	0.320	0.64	0.220	0.003	<0.001	0.005	53.08	0.16	0.35	0.603	0.192
57578		1.05		2.44	0.005	0.655	0.69	0.073	0.005	0.005	0.004	37.52	0.24	0.37	0.424	0.164
57579		1.23		2.54	0.002	0.520	0.43	0.142	0.002	0.066	0.003	41.31	0.18	0.23	0.238	0.091
57580		1.14		2.01	0.003	1.075	0.81	0.150	0.003	0.001	0.005	46.49	0.16	0.35	0.311	0.110
57581		1.18		2.19	0.002	0.602	0.91	0.151	0.002	<0.001	0.003	46.38	0.18	0.41	0.457	0.217

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-GRA05	Au-ICP21	ME-ICP61
	Analyte	Ni	P	Pb	S	SiO2	Sn	Sr	TiO2	V	Zn	Zr	Total	LOI	Au	Ag
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm
	LOR	0.001	0.001	0.001	0.001	0.05	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.5
57542		0.039	0.072	0.009	0.188	14.15	<0.001	0.043	0.20	0.003	0.007	0.004	99.98	4.95	0.009	<0.5
57543		0.022	0.040	0.010	0.038	83.3	0.003	0.012	0.36	0.005	0.005	0.021	100.05	2.14		<0.5
57544		0.008	0.067	0.011	0.292	15.10	<0.001	0.080	0.22	0.004	0.008	0.007	100.00	7.44		0.8
57545		0.011	0.040	0.001	0.224	66.0	<0.001	0.041	0.53	0.005	0.004	0.038	100.05	3.66		<0.5
57546		0.010	0.069	0.010	0.146	89.9	0.002	0.036	0.60	0.004	0.003	0.036	100.05	0.80		<0.5
57547		0.005	0.030	0.010	0.278	82.3	0.001	0.027	0.54	0.006	0.006	0.032	100.05	1.71		<0.5
57548		0.044	0.078	0.010	0.398	9.80	<0.001	0.294	0.15	0.005	0.012	0.006	100.00	7.54		2.5
57549		0.004	0.065	0.003	0.158	27.9	<0.001	0.094	0.29	0.020	0.008	0.004	99.97	5.32		<0.5
57550		0.001	0.036	0.007	0.152	86.2	0.001	0.050	0.95	0.002	0.003	0.043	100.00	1.25		<0.5
57551		0.018	0.116	0.004	0.150	21.6	<0.001	0.051	0.38	0.010	0.008	0.011	100.05	7.16		<0.5
57552		0.003	0.046	0.009	0.402	72.3	0.001	0.050	0.95	0.004	0.006	0.049	100.00	2.62		<0.5
57553		0.004	0.106	0.007	0.406	37.4	<0.001	0.126	0.53	0.007	0.019	0.021	100.00	7.06		<0.5
57554		0.006	0.087	0.001	0.673	21.1	<0.001	0.106	0.32	0.007	0.006	0.011	100.05	8.89		0.5
57555		0.031	0.111	0.006	0.169	9.30	<0.001	0.023	0.10	0.023	0.017	<0.001	100.00	8.60		1.1
57556		0.010	0.132	0.007	0.088	12.20	<0.001	0.056	0.19	0.031	0.025	0.002	100.00	5.01		1.2
57557		0.007	0.141	0.010	0.283	6.96	<0.001	0.094	0.08	0.015	0.020	<0.001	100.00	10.59		1.4
57558		0.003	0.058	0.012	0.130	10.65	<0.001	0.066	0.24	0.005	0.007	0.001	99.98	7.10		1.7
57559		0.004	0.055	0.011	0.271	6.74	<0.001	0.096	0.06	0.003	0.007	<0.001	100.00	9.75		1.3
57560		0.011	0.143	0.009	0.540	30.2	<0.001	0.130	0.53	0.006	0.007	0.016	100.00	7.82		0.7
57561		0.008	0.206	0.012	0.389	15.85	<0.001	0.128	0.22	0.021	0.011	0.005	100.00	8.64		1.0
57562		0.003	0.081	0.008	0.350	16.85	<0.001	0.115	0.19	0.002	0.007	0.002	99.99	9.21	0.001	2.0
57563		0.006	0.096	0.009	0.414	26.6	<0.001	0.090	0.35	0.003	0.008	0.013	100.05	8.62		0.8
57564		0.013	0.084	0.002	0.765	18.60	<0.001	0.261	0.31	0.003	0.009	0.005	100.00	9.43		1.7
57565		0.006	0.095	0.004	0.346	19.10	<0.001	0.093	0.23	0.008	0.009	0.011	100.00	7.65		0.7
57566		0.010	0.083	0.010	0.404	25.1	<0.001	0.120	0.28	0.006	0.008	0.007	100.00	6.84		0.9
57567		0.013	0.094	0.009	0.281	25.8	<0.001	0.097	0.44	0.004	0.008	0.009	100.05	6.64		1.2
57568		0.003	0.082	0.010	0.272	17.30	<0.001	0.137	0.20	0.004	0.008	0.004	100.00	7.73		<0.5
57569		0.003	0.066	0.011	0.205	23.1	<0.001	0.077	0.28	0.006	0.007	0.005	99.97	7.12		<0.5
57570		0.001	0.088	0.006	0.296	41.3	<0.001	0.078	0.37	0.003	0.005	0.010	100.05	6.58		0.6
57571		0.003	0.058	0.011	0.190	12.10	<0.001	0.080	0.16	0.002	0.009	<0.001	100.00	7.14		0.6
57572		0.007	0.098	0.010	0.637	9.28	<0.001	0.068	0.10	0.007	0.016	<0.001	100.00	9.42		<0.5
57573		0.012	0.093	0.011	0.470	18.40	<0.001	0.223	0.23	0.004	0.016	0.004	99.99	10.20		<0.5
57574		0.003	0.085	0.012	0.618	12.40	<0.001	0.166	0.16	0.006	0.010	0.004	99.99	9.07		<0.5
57575		0.002	0.091	0.008	0.322	21.0	<0.001	0.064	0.22	0.001	0.006	0.001	100.05	7.42		<0.5
57576		0.003	0.072	0.009	0.176	16.60	<0.001	0.077	0.22	<0.001	0.006	0.002	99.99	7.39		<0.5
57577		0.007	0.203	0.012	0.170	9.54	<0.001	0.049	0.15	0.004	0.007	<0.001	99.99	8.65		0.6
57578		0.017	0.144	0.012	0.300	32.4	<0.001	0.096	0.47	0.005	0.009	0.013	99.94	6.85		<0.5
57579		0.050	0.079	0.009	0.278	29.1	<0.001	0.085	0.45	0.003	0.007	0.016	100.05	5.74		<0.5
57580		0.008	0.166	0.013	0.475	18.80	<0.001	0.154	0.26	0.006	0.008	0.004	100.05	7.46		0.5
57581		0.002	0.130	0.010	0.466	17.20	<0.001	0.171	0.20	0.002	0.007	0.004	100.00	9.22		<0.5

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%
	LOR	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01	10	0.01
57542		2.65	<5	1740	1.0	<2	0.41	1.3	9	20	17	>50	10	0.27	<10	0.13
57543		2.68	6	810	0.7	<2	0.27	<0.5	7	22	11	4.40	10	0.56	10	0.22
57544		2.60	<5	890	1.2	<2	0.70	0.8	13	16	15	48.4	<10	0.30	<10	0.22
57545		0.41	6	4790	0.6	<2	0.28	<0.5	8	21	6	20.3	<10	0.05	10	0.05
57546		0.32	5	4580	<0.5	<2	0.24	<0.5	4	32	5	4.66	<10	0.05	20	0.03
57547		0.24	5	3180	1.1	<2	0.36	<0.5	5	20	3	9.17	<10	0.03	10	0.03
57548		1.69	5	1810	1.3	<2	0.58	0.9	14	12	9	>50	<10	0.18	<10	0.17
57549		1.82	14	2070	1.0	<2	0.35	1.2	14	15	7	43.9	<10	0.16	<10	0.12
57550		0.30	5	3480	<0.5	<2	0.20	<0.5	7	25	4	7.39	<10	0.04	10	0.03
57551		2.18	9	2090	1.1	3	0.48	0.8	17	18	14	45.9	10	0.24	<10	0.19
57552		0.41	5	1430	1.6	<2	0.45	<0.5	7	23	7	15.05	<10	0.04	10	0.05
57553		1.11	9	2070	1.6	<2	0.48	0.6	18	16	8	35.2	<10	0.12	10	0.16
57554		0.86	5	1020	0.9	<2	0.84	0.6	13	10	11	45.7	10	0.11	<10	0.18
57555		1.12	15	2050	1.7	<2	0.38	<0.5	41	7	28	>50	<10	0.12	<10	0.25
57556		1.07	26	1780	1.1	3	0.60	0.7	51	6	17	>50	<10	0.11	<10	0.18
57557		0.93	17	5630	3.1	<2	0.86	0.7	17	6	14	>50	<10	0.08	<10	0.32
57558		2.48	<5	690	1.1	<2	0.23	<0.5	9	15	5	>50	10	0.09	<10	0.14
57559		0.62	<5	1350	0.9	<2	0.45	<0.5	7	4	6	>50	<10	0.05	<10	0.24
57560		0.74	<5	1150	0.9	<2	1.00	<0.5	18	11	13	41.3	<10	0.08	10	0.20
57561		1.29	14	3740	1.1	<2	0.69	0.5	22	13	20	46.9	<10	0.13	10	0.24
57562		1.07	<5	3110	1.0	<2	0.46	<0.5	11	9	11	49.6	<10	0.11	<10	0.17
57563		0.74	<5	1630	0.8	<2	0.56	<0.5	19	11	8	38.9	<10	0.07	<10	0.15
57564		0.93	<5	720	0.9	<2	0.96	0.5	19	10	10	47.3	<10	0.10	<10	0.20
57565		1.54	<5	3100	1.0	<2	0.50	0.7	12	13	10	46.3	<10	0.15	10	0.15
57566		1.15	<5	2010	0.9	<2	0.54	<0.5	14	13	8	42.3	<10	0.12	<10	0.15
57567		1.35	<5	5150	0.9	<2	0.43	0.6	13	15	9	40.9	<10	0.16	10	0.20
57568		1.05	<5	3860	0.8	3	0.34	1.2	9	8	9	47.5	<10	0.10	<10	0.15
57569		1.78	<5	2010	0.8	3	0.39	1.1	7	17	9	42.7	10	0.21	<10	0.15
57570		1.20	<5	3570	1.6	3	0.43	1.1	4	17	6	31.1	<10	0.18	10	0.16
57571		1.53	<5	1250	1.0	4	0.33	1.6	11	12	6	>50	<10	0.16	<10	0.14
57572		0.56	<5	580	0.7	5	0.96	0.8	19	4	13	>50	<10	0.05	<10	0.14
57573		2.46	<5	1350	1.3	4	0.79	1.8	44	14	20	42.6	10	0.33	<10	0.32
57574		1.12	5	1390	0.9	3	0.51	0.9	10	9	11	49.6	<10	0.13	10	0.13
57575		0.75	<5	2640	0.7	3	0.45	0.7	3	7	7	46.0	<10	0.09	<10	0.10
57576		1.21	<5	2350	0.9	7	0.37	0.7	3	14	6	>50	<10	0.13	<10	0.16
57577		1.13	10	3200	1.3	8	0.45	1.0	4	10	10	>50	<10	0.13	10	0.19
57578		1.36	30	3330	1.3	<2	0.50	1.5	26	18	10	37.3	<10	0.21	10	0.20
57579		1.38	<5	3150	0.9	5	0.31	1.2	4	16	8	40.6	<10	0.15	10	0.13
57580		1.17	8	1380	0.8	4	0.61	0.7	11	14	12	48.0	<10	0.14	10	0.20
57581		1.22	<5	1880	1.1	6	0.66	1.5	5	11	9	46.4	<10	0.15	10	0.22

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10	1
57542		2250	1	0.60	20	760	22	0.20	<5	5	456	<20	0.12	10	<10	70
57543		588	<1	0.66	11	390	16	0.04	<5	4	143	<20	0.18	<10	<10	81
57544		4590	7	0.33	15	700	12	0.29	8	5	801	<20	0.13	<10	<10	72
57545		1370	<1	0.86	17	440	9	0.23	<5	2	445	<20	0.28	<10	<10	55
57546		557	<1	0.82	8	710	9	0.14	<5	2	316	<20	0.34	<10	<10	61
57547		533	<1	0.58	9	310	5	0.26	<5	1	268	<20	0.28	<10	<10	73
57548		1960	5	0.43	18	830	12	0.41	<5	4	2900	<20	0.09	<10	<10	69
57549		3600	5	0.48	14	720	12	0.16	<5	4	1000	<20	0.17	10	<10	247
57550		611	<1	0.64	9	390	6	0.15	<5	2	524	<20	0.48	<10	<10	46
57551		2430	6	0.53	43	1210	13	0.15	<5	5	546	<20	0.20	<10	<10	138
57552		786	1	0.29	12	490	10	0.29	6	3	492	<20	0.41	<10	<10	71
57553		2200	2	0.46	32	1100	13	0.27	<5	4	1230	<20	0.26	<10	<10	93
57554		2230	3	0.30	20	960	12	0.47	6	2	1130	<20	0.17	<10	<10	76
57555		4820	22	0.49	58	1150	12	0.17	<5	6	268	<20	0.06	10	<10	264
57556		14350	22	0.44	59	1410	8	0.09	<5	4	599	<20	0.11	<10	10	360
57557		2360	1	1.07	40	1530	4	0.29	<5	3	992	<20	0.05	<10	<10	187
57558		1720	3	0.21	8	600	7	0.13	<5	6	647	<20	0.14	<10	<10	79
57559		2720	5	0.30	11	580	2	0.27	<5	2	946	<20	0.04	<10	<10	63
57560		1980	2	0.29	14	1550	8	0.47	5	3	1310	<20	0.27	<10	<10	92
57561		3130	3	0.85	30	2100	19	0.20	6	4	1230	<20	0.12	<10	<10	218
57562		1990	2	0.66	22	880	12	0.29	<5	3	1170	<20	0.10	<10	<10	58
57563		2180	2	0.34	25	930	9	0.30	10	2	834	<20	0.15	<10	<10	53
57564		2430	3	0.24	23	900	11	0.64	7	3	2600	<20	0.17	<10	<10	71
57565		1990	2	0.64	18	980	12	0.30	<5	4	994	<20	0.13	<10	<10	70
57566		2370	2	0.42	19	860	9	0.29	<5	3	1120	<20	0.15	<10	<10	81
57567		5010	1	1.04	19	900	14	0.26	<5	3	930	<20	0.23	<10	<10	67
57568		3780	2	0.08	15	790	17	0.28	<5	2	1250	<20	0.11	<10	<10	62
57569		1700	2	0.11	14	630	11	0.21	<5	4	696	<20	0.16	<10	<10	81
57570		2270	8	0.26	19	830	9	0.21	<5	3	704	<20	0.20	<10	10	67
57571		4030	1	0.11	45	560	11	0.20	<5	3	739	<20	0.10	<10	<10	50
57572		2650	5	0.04	25	950	15	0.56	<5	1	619	<20	0.06	<10	10	93
57573		3810	3	0.30	52	920	9	0.50	<5	4	2020	<20	0.14	<10	<10	64
57574		3430	2	0.12	15	850	32	0.33	<5	2	1490	<20	0.10	<10	<10	86
57575		2840	1	0.05	11	890	10	0.29	<5	2	599	<20	0.12	<10	<10	48
57576		4180	2	0.17	5	720	13	0.19	6	2	746	<20	0.13	<10	<10	37
57577		5370	2	0.15	9	1980	17	0.18	9	3	454	<20	0.09	<10	<10	59
57578		3880	3	0.14	62	1450	26	0.24	<5	4	895	<20	0.25	<10	<10	74
57579		2280	1	0.09	10	790	14	0.24	9	3	788	<20	0.24	<10	<10	60
57580		3040	1	0.10	16	1710	22	0.28	<5	3	1440	<20	0.15	<10	<10	88
57581		4160	1	0.18	12	1290	11	0.40	7	3	1570	<20	0.12	<10	<10	51

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61
	Analyte	W	Zn
	Units	ppm	ppm
	LOR	10	2
57542		<10	41
57543		<10	31
57544		<10	40
57545		<10	24
57546		<10	7
57547		<10	33
57548		<10	79
57549		<10	57
57550		<10	17
57551		<10	56
57552		<10	33
57553		<10	168
57554		<10	34
57555		<10	143
57556		<10	235
57557		<10	171
57558		<10	31
57559		<10	21
57560		<10	38
57561		<10	62
57562		<10	33
57563		<10	41
57564		<10	68
57565		<10	61
57566		<10	49
57567		<10	45
57568		<10	44
57569		<10	34
57570		<10	23
57571		<10	45
57572		<10	119
57573		<10	130
57574		<10	58
57575		<10	29
57576		<10	24
57577		<10	34
57578		<10	55
57579		<10	43
57580		<10	42
57581		<10	30

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	WEI-21	PUL-QC	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n
	Analyte	Recvd Wt.	Pass75um	Al2O3	As	Ba	CaO	Cl	Co	Cr2O3	Cu	Fe	K2O	MgO	Mn	Na2O
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.01	0.001	0.005
57582		1.18		2.49	0.002	0.254	0.83	0.158	0.003	0.005	0.006	50.21	0.18	0.37	0.373	0.150
57583		1.15		2.41	0.002	0.317	1.07	0.131	0.004	0.013	0.005	47.69	0.18	0.37	0.569	0.089
57584		1.12		2.23	0.003	0.571	0.90	0.109	0.003	0.052	0.005	47.21	0.16	0.56	0.718	0.097
57585		1.29		1.34	0.002	0.584	1.08	0.067	0.003	<0.001	0.005	35.15	0.10	0.25	0.206	0.057
57586		1.32	87.0	2.39	0.003	0.026	1.10	0.214	0.003	0.018	0.005	51.54	0.17	0.46	0.186	0.188
57587		1.18		1.12	0.005	0.751	1.64	0.195	0.004	<0.001	0.005	48.23	0.09	0.41	0.323	0.132
57588		1.41		0.91	0.002	0.499	0.58	0.041	0.002	0.049	0.002	25.40	0.07	0.17	0.146	0.042
57589		1.21		1.60	0.003	1.080	1.14	0.167	0.003	0.007	0.004	41.84	0.11	0.38	0.217	0.110
57590		1.11		3.21	0.002	0.128	0.50	0.148	0.004	0.029	0.004	50.02	0.12	0.63	0.361	0.090
57591		1.24		2.28	0.003	0.206	0.92	0.182	0.004	0.156	0.006	48.01	0.17	0.43	0.372	0.120
57592		1.29		2.94	0.003	0.813	0.80	0.218	0.005	0.022	0.005	46.49	0.28	0.69	0.618	0.429
57593		1.45		1.24	0.003	1.315	1.04	0.060	0.003	0.006	0.005	39.60	0.10	0.28	0.222	0.053
57594		1.32		2.26	0.003	0.494	0.59	0.053	0.005	0.005	0.004	40.32	0.19	0.21	0.083	0.050
57595		1.14		1.42	0.004	0.207	0.70	0.093	0.005	0.002	0.004	48.47	0.09	0.39	0.508	0.044
57596		1.40		1.14	0.004	0.564	0.81	0.061	0.003	0.013	0.004	29.68	0.09	0.19	0.324	0.069
57597		1.25		0.39	0.001	0.321	0.62	0.046	0.001	0.034	0.002	11.80	0.03	0.03	0.047	0.020
57598		1.14		0.44	0.001	0.379	0.51	0.010	0.001	0.029	0.001	12.18	0.03	0.03	0.049	0.011
57599		0.94		0.39	0.001	0.308	0.51	0.008	0.001	0.015	<0.001	6.30	0.04	0.01	0.028	<0.005
57600		1.09		1.53	0.003	1.090	0.83	0.122	0.004	0.002	0.006	51.20	0.12	0.29	0.281	0.089
57601		1.48		2.31	0.004	0.639	1.04	0.090	0.005	0.005	0.006	50.09	0.18	0.36	0.490	0.095
57602		1.62		0.95	0.004	1.465	0.67	0.074	0.003	0.009	0.005	36.89	0.08	0.29	0.231	0.062
57603		1.59		1.39	0.006	0.849	1.09	0.063	0.005	0.015	0.006	43.35	0.11	0.30	0.947	0.063
57604		2.01		1.46	0.004	0.820	1.04	0.060	0.005	0.009	0.006	50.37	0.13	0.33	0.353	0.087
57605		1.65		1.12	0.004	0.701	0.78	0.184	0.005	0.004	0.005	49.73	0.09	0.28	0.303	0.146
57606		1.72		1.86	0.006	0.815	0.83	0.041	0.005	0.013	0.006	52.93	0.15	0.31	0.536	0.113
57607		1.63		1.62	0.004	0.950	0.81	0.063	0.005	0.003	0.005	46.22	0.13	0.30	0.619	0.095
57608		1.61		1.46	0.004	1.295	0.94	0.200	0.004	0.004	0.006	42.13	0.11	0.40	0.334	0.161
57609		1.62		2.58	0.004	0.491	1.07	0.146	0.005	0.009	0.006	51.45	0.21	0.43	0.419	0.095
57610		2.04		2.03	0.003	0.056	0.59	0.144	0.005	0.035	0.005	54.55	0.14	0.36	0.262	0.096
57611		2.07		1.86	0.003	0.433	0.76	0.126	0.004	0.007	0.004	48.20	0.12	0.31	0.253	0.061
57612		1.57		1.82	0.004	1.290	1.04	0.150	0.005	0.012	0.007	48.96	0.13	0.39	0.464	0.098
57613		2.01		2.03	0.003	0.106	1.10	0.100	0.004	<0.001	0.007	52.00	0.13	0.34	0.221	0.031
57614		1.82		2.21	0.004	1.005	0.90	0.257	0.007	0.013	0.006	51.98	0.16	0.33	0.343	0.180
57615		2.00		1.84	0.003	0.406	0.69	0.132	0.003	0.017	0.005	54.71	0.12	0.25	0.373	0.067
57616		1.91		4.17	0.001	0.156	0.37	0.202	0.003	<0.001	0.008	47.42	0.23	0.23	0.183	0.128
57617		1.74		1.46	0.003	0.863	0.81	0.220	0.003	0.004	0.004	28.77	0.12	0.23	0.423	0.217
57618		2.18		1.66	0.003	0.965	0.55	0.046	0.003	0.004	0.003	29.67	0.16	0.22	0.247	0.121
57619		1.70		1.56	0.002	0.946	0.57	0.122	0.003	0.006	0.004	37.01	0.14	0.21	0.303	0.132
57620		1.69		0.28	0.001	0.312	0.32	0.012	0.001	0.007	<0.001	4.23	0.02	0.02	0.066	0.006
57621		1.87		0.78	0.002	0.759	0.59	0.098	0.002	0.041	0.002	21.14	0.06	0.12	0.193	0.075

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-GRA05	Au-ICP21	ME-ICP61
	Analyte	Ni	P	Pb	S	SiO2	Sn	Sr	TiO2	V	Zn	Zr	Total	LOI	Au	Ag
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm
	LOR	0.001	0.001	0.001	0.001	0.05	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.5
57582		0.009	0.184	0.013	0.207	13.80	<0.001	0.063	0.22	0.004	0.010	0.005	100.00	8.15	<0.001	<0.5
57583		0.013	0.145	0.011	0.369	17.10	<0.001	0.111	0.26	0.007	0.009	0.006	100.00	7.59		<0.5
57584		0.033	0.184	0.009	0.308	16.50	<0.001	0.133	0.28	0.009	0.007	0.007	99.99	8.51		1.0
57585		0.012	0.101	0.013	0.595	36.5	<0.001	0.119	0.47	0.005	0.008	0.024	99.95	6.95		<0.5
57586		0.047	0.087	0.006	0.481	8.94	<0.001	0.040	0.13	<0.001	0.013	<0.001	99.99	10.86		0.7
57587		0.009	0.140	0.004	0.840	13.70	<0.001	0.310	0.18	0.032	0.012	0.010	99.99	9.38		1.2
57588		0.024	0.079	0.006	0.338	54.5	<0.001	0.095	0.65	0.004	0.006	0.038	99.97	4.64		0.5
57589		0.005	0.160	0.008	0.611	24.7	<0.001	0.160	0.40	0.009	0.008	0.019	100.00	7.93		0.6
57590		0.017	0.056	0.007	0.180	11.95	<0.001	0.047	0.16	<0.001	0.009	0.005	100.00	10.34		<0.5
57591		0.077	0.140	0.010	0.336	14.75	<0.001	0.163	0.21	0.004	0.012	0.011	99.99	9.87		<0.5
57592		0.016	0.168	0.007	0.291	14.70	<0.001	0.061	0.21	0.006	0.009	0.006	100.00	10.24		<0.5
57593		0.009	0.081	0.008	0.763	28.1	<0.001	0.146	0.30	0.004	0.007	0.015	99.97	8.07		<0.5
57594		0.016	0.123	0.009	0.367	28.0	<0.001	0.076	0.37	<0.001	0.056	0.016	100.00	8.55		<0.5
57595		0.011	0.103	0.008	0.238	17.35	<0.001	0.026	0.24	0.026	0.017	0.010	100.00	8.45		0.6
57596		0.014	0.273	0.011	0.241	47.9	<0.001	0.052	0.25	0.025	0.013	0.013	99.98	4.54		<0.5
57597		0.014	0.087	0.010	0.360	78.0	0.001	0.035	0.75	0.010	0.004	0.055	99.95	1.47		<0.5
57598		0.009	0.074	0.008	0.325	77.9	0.001	0.026	0.58	0.010	0.003	0.029	100.05	1.49		<0.5
57599		0.004	0.044	0.006	0.337	86.5	0.001	0.025	0.99	0.003	0.006	0.042	99.96	1.05		<0.5
57600		0.006	0.147	0.009	0.485	10.55	<0.001	0.147	0.14	0.004	0.010	0.007	100.00	9.74		<0.5
57601		0.007	0.228	0.012	0.216	13.65	<0.001	0.070	0.22	0.018	0.009	0.013	100.00	7.81		<0.5
57602		0.007	0.114	0.010	0.521	34.1	<0.001	0.143	0.61	0.009	0.008	0.033	100.00	6.65	<0.001	0.8
57603		0.013	0.230	0.010	0.372	23.9	<0.001	0.122	0.34	0.049	0.010	0.016	99.99	6.72		0.6
57604		0.010	0.118	0.009	0.577	10.95	<0.001	0.188	0.15	0.007	0.010	0.010	99.98	10.34		1.4
57605		0.007	0.112	0.006	0.385	13.00	<0.001	0.091	0.18	0.010	0.009	0.009	100.00	10.50		0.7
57606		0.012	0.208	0.008	0.315	9.51	<0.001	0.114	0.12	0.052	0.013	0.006	100.00	8.17		0.8
57607		0.005	0.138	0.009	0.400	19.55	<0.001	0.132	0.30	0.020	0.013	0.013	99.99	7.55		0.5
57608		0.005	0.227	0.011	0.439	24.2	<0.001	0.145	0.35	0.023	0.010	0.016	100.00	8.15		1.0
57609		0.009	0.254	0.007	0.237	10.05	<0.001	0.085	0.14	0.008	0.011	0.004	100.00	9.26		<0.5
57610		0.024	0.085	0.004	0.190	8.51	<0.001	0.032	0.11	0.003	0.012	0.001	100.00	8.78		<0.5
57611		0.007	0.077	0.006	0.400	16.60	<0.001	0.097	0.20	0.003	0.013	0.007	100.05	8.88		1.0
57612		0.011	0.257	0.015	0.449	13.40	<0.001	0.188	0.19	0.022	0.013	0.012	100.00	8.64		<0.5
57613		0.006	0.090	0.001	0.515	9.48	<0.001	0.030	0.10	0.008	0.012	0.004	100.00	10.34		0.6
57614		0.017	0.198	0.010	0.438	8.57	<0.001	0.132	0.12	0.008	0.014	0.006	100.00	9.55		0.6
57615		0.013	0.095	0.008	0.363	8.78	<0.001	0.065	0.10	0.003	0.014	0.002	100.00	7.55		<0.5
57616		0.017	0.058	0.010	0.736	15.90	<0.001	>1.50	0.24	0.007	0.009	0.049	99.99	6.24		4.5
57617		0.004	0.225	0.012	0.281	47.4	<0.001	0.083	0.51	0.016	0.008	0.027	100.05	4.97		<0.5
57618		0.004	0.156	0.007	0.304	45.8	<0.001	0.084	0.38	0.009	0.007	0.026	99.99	5.91		<0.5
57619		0.011	0.108	0.009	0.389	34.3	<0.001	0.149	0.32	0.003	0.010	0.016	99.95	6.74		0.7
57620		0.003	0.035	0.008	0.198	90.5	0.002	0.030	0.72	0.002	0.002	0.031	100.00	0.97		<0.5
57621		0.022	0.095	0.009	0.340	61.3	<0.001	0.098	0.56	0.003	0.005	0.034	100.05	3.79		<0.5

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%
	LOR	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01	10	0.01
57582		1.37	<5	2520	1.0	3	0.59	1.4	6	11	10	49.5	<10	0.15	10	0.19
57583		1.35	5	3150	0.8	5	0.78	0.9	11	10	12	47.6	<10	0.15	10	0.20
57584		1.25	8	5590	0.9	8	0.64	0.9	7	10	17	47.3	<10	0.14	10	0.29
57585		0.74	<5	470	0.7	4	0.77	1.0	8	11	11	34.0	<10	0.08	10	0.13
57586		1.29	<5	420	0.7	5	0.75	1.1	11	10	11	>50	<10	0.14	<10	0.24
57587		0.62	21	380	1.2	5	1.12	0.6	15	4	19	46.7	<10	0.08	10	0.21
57588		0.49	9	3560	2.8	<2	0.42	<0.5	4	16	7	24.7	<10	0.06	<10	0.10
57589		0.89	6	670	0.7	<2	0.81	0.9	8	12	14	41.3	<10	0.10	10	0.21
57590		1.72	<5	1260	0.7	5	0.34	0.8	14	10	6	48.4	<10	0.10	<10	0.33
57591		1.24	7	1980	1.0	3	0.65	1.0	16	9	13	46.8	<10	0.15	10	0.23
57592		1.62	5	7730	1.9	3	0.56	1.4	24	11	16	46.1	<10	0.24	10	0.37
57593		0.70	13	530	0.6	5	0.75	1.4	5	13	9	39.4	<10	0.09	10	0.15
57594		1.20	6	3340	2.4	4	0.42	0.7	29	11	7	38.4	<10	0.15	<10	0.11
57595		0.77	17	1990	1.0	<2	0.49	0.7	27	7	16	46.4	<10	0.08	10	0.20
57596		0.60	21	4710	0.9	<2	0.55	<0.5	19	34	17	27.8	<10	0.08	20	0.10
57597		0.21	10	2320	0.5	<2	0.45	<0.5	1	59	7	11.55	<10	0.03	10	0.02
57598		0.24	7	2600	<0.5	4	0.36	<0.5	1	59	7	12.05	<10	0.03	10	0.02
57599		0.21	8	2390	0.8	<2	0.37	<0.5	3	33	7	6.38	<10	0.04	10	0.02
57600		0.80	8	1960	0.8	8	0.57	<0.5	14	8	14	49.0	<10	0.10	10	0.16
57601		1.39	12	6490	1.1	<2	0.74	0.5	14	10	22	46.5	<10	0.15	10	0.20
57602		0.55	10	1680	0.7	<2	0.47	0.5	14	12	10	32.5	<10	0.06	10	0.16
57603		0.79	30	2810	1.6	<2	0.75	<0.5	26	9	21	38.6	<10	0.09	20	0.17
57604		0.86	9	1720	0.9	<2	0.75	0.5	26	7	11	47.4	<10	0.11	<10	0.19
57605		0.68	9	3240	1.2	4	0.58	0.5	28	6	14	47.3	<10	0.08	<10	0.17
57606		1.09	37	5550	1.5	<2	0.60	0.8	28	8	20	48.7	<10	0.14	10	0.18
57607		0.94	15	2120	1.3	<2	0.58	<0.5	23	9	14	42.7	<10	0.11	10	0.17
57608		0.84	14	2640	1.0	<2	0.67	<0.5	17	15	17	38.5	<10	0.09	10	0.22
57609		1.48	12	4840	1.1	<2	0.74	0.8	24	12	30	46.3	<10	0.17	10	0.24
57610		1.23	<5	690	1.2	<2	0.42	<0.5	24	6	19	>50	<10	0.12	<10	0.21
57611		1.11	<5	2700	1.1	<2	0.55	0.5	18	9	7	45.0	<10	0.10	<10	0.18
57612		1.04	15	6230	1.1	<2	0.71	<0.5	22	11	22	44.0	<10	0.10	20	0.21
57613		1.18	<5	1120	1.3	<2	0.83	0.7	31	6	16	49.4	10	0.13	<10	0.19
57614		1.35	10	2090	1.2	<2	0.74	0.6	37	12	20	49.0	10	0.14	10	0.19
57615		1.11	<5	4130	2.5	3	0.51	<0.5	13	10	9	>50	10	0.11	<10	0.14
57616		2.44	<5	1680	1.9	<2	0.31	<0.5	10	19	10	46.7	10	0.22	<10	0.14
57617		0.88	9	5110	1.0	<2	0.61	<0.5	16	16	18	27.6	<10	0.10	20	0.14
57618		1.04	14	4520	1.0	<2	0.43	<0.5	16	25	15	29.7	<10	0.14	20	0.15
57619		0.92	<5	2780	1.3	<2	0.42	1.3	14	13	9	34.2	<10	0.11	10	0.13
57620		0.17	6	3250	<0.5	<2	0.25	<0.5	3	16	3	4.37	<10	0.02	10	0.02
57621		0.50	<5	2840	0.6	<2	0.46	<0.5	6	21	8	21.6	10	0.06	10	0.08

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10	1
57582		3470	4	0.12	16	1800	12	0.22	<5	4	587	<20	0.12	<10	10	59
57583		5160	7	0.08	14	1450	14	0.39	<5	4	1010	<20	0.14	<10	10	87
57584		6420	6	0.09	13	1830	13	0.32	<5	4	1250	<20	0.15	<10	10	107
57585		1920	2	0.05	19	980	11	0.47	<5	2	1020	<20	0.22	<10	10	68
57586		1680	1	0.14	20	840	3	0.49	<5	3	374	<20	0.08	<10	<10	37
57587		2910	5	0.11	31	1320	19	0.69	8	3	2730	<20	0.09	<10	10	317
57588		1360	2	0.05	18	740	10	0.32	<5	2	856	<20	0.30	<10	10	91
57589		2020	4	0.10	16	1550	13	0.40	7	3	1410	<20	0.21	<10	10	129
57590		3230	1	0.09	15	540	8	0.18	<5	4	443	<20	0.10	<10	10	46
57591		3440	2	0.10	19	1360	11	0.35	8	4	1470	<20	0.11	<10	<10	71
57592		5470	6	0.35	22	1650	11	0.30	8	4	597	<20	0.12	<10	10	91
57593		2130	1	0.06	18	810	9	0.49	<5	2	1290	<20	0.16	<10	10	86
57594		754	3	0.05	71	1160	9	0.34	<5	3	686	<20	0.19	<10	<10	45
57595		4410	8	0.05	60	980	12	0.27	6	4	250	<20	0.12	<10	10	276
57596		2950	3	0.07	25	2520	36	0.23	<5	2	458	<20	0.13	<10	<10	268
57597		454	2	0.03	10	810	20	0.35	5	2	317	<20	0.37	<10	<10	122
57598		465	1	0.02	5	720	17	0.30	<5	2	246	<20	0.30	<10	<10	131
57599		323	1	0.02	13	430	12	0.33	<5	3	257	<20	0.49	<10	<10	71
57600		2520	2	0.08	29	1400	15	0.30	<5	2	1290	<20	0.08	<10	<10	89
57601		4440	3	1.21	17	2220	18	0.20	5	3	642	<20	0.11	10	<10	211
57602		2140	1	0.36	22	1070	17	0.20	6	3	1190	<20	0.26	<10	<10	118
57603		7360	8	0.58	43	2130	25	0.22	<5	3	1070	<20	0.16	<10	<10	482
57604		3260	5	0.38	38	1170	12	0.40	13	3	1710	<20	0.07	<10	<10	108
57605		2820	58	0.71	28	1140	13	0.28	6	2	871	<20	0.09	<10	20	143
57606		4900	6	1.07	43	2000	12	0.23	7	4	1060	<20	0.07	<10	<10	564
57607		5590	10	0.47	27	1330	10	0.21	5	4	1190	<20	0.14	<10	<10	230
57608		2990	3	0.61	21	2130	15	0.19	<5	3	1270	<20	0.16	10	<10	255
57609		3690	2	0.93	33	2410	14	0.21	<5	4	774	<20	0.08	<10	<10	122
57610		2420	11	0.21	33	830	13	0.18	<5	4	327	<20	0.07	<10	<10	84
57611		2390	3	0.56	22	720	10	0.34	<5	4	934	<20	0.11	10	<10	76
57612		4000	6	1.18	23	2390	27	0.27	6	3	1630	<20	0.09	<10	<10	226
57613		2150	6	0.25	41	900	9	0.50	<5	3	334	<20	0.06	<10	<10	81
57614		3150	3	0.55	42	2080	23	0.25	<5	3	1280	<20	0.06	<10	<10	127
57615		3460	2	0.82	23	940	7	0.35	8	3	628	<20	0.06	<10	<10	81
57616		1830	<1	0.42	12	600	16	0.73	5	5	>10000	20	0.14	10	<10	64
57617		4010	1	1.05	20	2220	45	0.19	5	3	820	<20	0.26	<10	<10	195
57618		2530	1	0.89	21	1590	25	0.17	8	3	811	<20	0.20	<10	<10	148
57619		2780	2	0.62	20	1050	18	0.22	<5	3	1330	<20	0.16	<10	<10	87
57620		627	<1	0.58	3	350	9	0.18	<5	2	304	<20	0.37	<10	<10	59
57621		2010	1	0.59	12	1010	23	0.22	<5	2	959	<20	0.28	<10	<10	86

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61
	Analyte	W	Zn
	Units	ppm	ppm
	LOR	10	2
57582		<10	58
57583		<10	49
57584		<10	38
57585		<10	42
57586		<10	92
57587		<10	87
57588		10	41
57589		<10	45
57590		<10	51
57591		<10	78
57592		<10	46
57593		<10	32
57594		<10	521
57595		<10	141
57596		<10	101
57597		<10	30
57598		<10	12
57599		10	44
57600		<10	55
57601		<10	46
57602		<10	31
57603		<10	60
57604		<10	54
57605		<10	52
57606		<10	93
57607		<10	85
57608		<10	59
57609		<10	71
57610		<10	88
57611		<10	96
57612		<10	68
57613		<10	97
57614		<10	92
57615		<10	93
57616		<10	49
57617		<10	49
57618		<10	48
57619		20	61
57620		10	7
57621		<10	28

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	WEI-21	PUL-QC	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n
	Analyte	Recvd Wt.	Pass75um	Al2O3	As	Ba	CaO	Cl	Co	Cr2O3	Cu	Fe	K2O	MgO	Mn	Na2O
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.01	0.001	0.005
57622		1.62		0.57	0.001	0.493	0.45	0.037	0.002	0.016	0.002	17.50	0.04	0.09	0.101	0.022
57623		1.88		1.08	0.002	0.382	0.32	0.067	0.002	0.005	0.002	18.46	0.08	0.09	0.120	0.081
57624		1.37		3.77	0.003	0.176	0.66	0.059	0.003	0.004	0.002	47.30	0.30	0.37	0.444	0.299
57625		1.09		1.00	0.003	0.735	0.42	0.087	0.002	0.001	0.002	33.89	0.07	0.15	0.363	0.065
57626		1.25	95.0	1.20	0.001	0.454	0.45	0.043	0.002	0.008	0.002	26.63	0.10	0.27	0.289	0.101
57627		1.26		1.18	0.002	0.697	0.41	0.077	0.002	0.009	0.002	23.97	0.09	0.14	0.231	0.073
57629		2.78		2.21	0.004	1.165	0.57	0.440	0.003	0.079	0.006	51.86	0.17	0.32	0.332	0.300
57630		1.33		2.85	0.003	0.184	0.51	0.115	0.002	0.007	0.002	43.32	0.21	0.28	0.384	0.097
57631		1.12		1.64	0.003	0.410	0.57	0.150	0.003	0.006	0.005	53.68	0.12	0.58	0.312	0.081
57632		1.13		1.88	0.003	0.730	0.80	0.122	0.003	<0.001	0.007	43.16	0.11	0.28	0.192	0.063
57633		1.01		1.95	0.004	0.687	0.71	0.168	0.003	<0.001	0.009	53.30	0.10	0.36	0.324	0.099
57634		1.02		2.66	0.004	0.690	0.87	0.194	0.003	<0.001	0.008	46.14	0.15	0.39	0.394	0.113
57635		1.26		1.94	0.004	0.605	0.75	0.218	0.003	<0.001	0.007	49.65	0.09	0.27	0.302	0.112
57636		1.06		0.99	0.004	0.211	0.83	0.044	0.004	0.012	0.007	42.22	0.08	0.22	0.288	<0.005
57637		1.20		1.97	0.002	0.291	0.59	0.085	0.005	0.008	0.007	43.00	0.14	0.43	0.311	<0.005
57638		0.98		2.16	0.004	0.480	1.16	0.168	0.004	0.004	0.009	49.53	0.15	0.45	0.446	<0.005
57639		0.99		2.96	0.004	0.188	0.65	0.014	0.004	0.005	0.008	36.70	0.23	0.31	0.730	<0.005
57640		0.95		1.80	0.007	0.696	1.98	0.034	0.005	0.004	0.012	52.86	0.14	0.39	1.725	<0.005
57641		1.03		1.41	0.003	0.552	0.97	0.092	0.003	0.012	0.007	43.47	0.10	0.26	0.242	<0.005
57642		1.28		1.47	0.003	0.802	0.64	0.099	0.003	0.016	0.007	41.53	0.11	0.32	0.358	<0.005
57643		0.96		1.08	0.003	1.025	1.10	0.128	0.004	0.010	0.008	39.13	0.08	0.26	0.322	<0.005
57644		1.12		1.89	0.004	0.363	0.83	0.065	0.004	0.007	0.008	48.85	0.14	0.27	0.554	<0.005
57645		1.07		1.96	0.004	0.120	0.76	0.073	0.004	0.004	0.008	54.51	0.16	0.37	0.677	<0.005
57646		1.19		1.30	0.004	0.937	0.84	0.057	0.004	0.012	0.008	43.24	0.10	0.31	0.467	<0.005
57647		1.29		1.23	0.003	1.255	1.19	0.099	0.003	0.004	0.009	46.11	0.10	0.33	0.238	<0.005
57648		1.11		1.40	0.003	0.418	0.74	0.027	0.003	0.017	0.006	31.63	0.11	0.23	0.203	<0.005
57649		1.01		0.81	0.001	0.108	0.60	0.019	0.001	0.037	0.004	14.96	0.04	0.09	0.064	<0.005
57650		1.08		0.40	0.001	0.279	0.52	<0.001	0.001	0.008	0.003	10.22	0.02	0.03	0.045	<0.005
57651		1.09		1.38	0.003	0.081	0.88	0.172	0.004	0.005	0.009	54.89	0.10	0.41	1.030	<0.005
57652		1.36		1.40	0.003	0.144	2.72	0.082	0.005	0.007	0.007	50.69	0.12	0.33	0.372	<0.005
57653		0.92		1.86	0.004	0.560	1.32	0.335	0.004	0.005	0.009	49.26	0.15	0.41	0.928	0.105
57654		1.10		3.00	0.003	0.120	0.57	0.072	0.005	0.022	0.008	49.77	0.27	0.58	0.432	<0.005
57655		1.13		1.74	0.004	0.872	1.36	0.116	0.004	0.020	0.010	50.03	0.12	0.52	0.381	<0.005
57656		1.04		1.57	0.003	0.601	0.90	0.118	0.003	0.014	0.008	50.06	0.12	0.41	0.356	<0.005
57657		0.95		2.10	0.006	0.691	1.44	0.065	0.005	0.008	0.011	46.58	0.16	0.48	1.030	<0.005
57658		0.98		1.62	0.005	1.680	0.75	0.101	0.004	0.002	0.009	48.31	0.13	0.34	0.366	<0.005
57659		1.07		1.58	0.003	0.898	0.81	0.146	0.003	0.004	0.008	44.69	0.12	0.42	0.281	<0.005
57660		1.04		2.60	0.003	0.222	0.70	0.250	0.002	0.019	0.006	43.87	0.25	0.42	0.356	0.132
57661		1.19		1.66	0.002	0.215	0.52	0.164	0.002	0.003	0.007	43.92	0.13	0.28	0.681	<0.005
57662		1.04		1.88	0.003	0.820	0.70	0.050	0.003	0.004	0.008	47.23	0.13	0.24	0.308	<0.005

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-GRA05	Au-ICP21	ME-ICP61
	Analyte	Ni	P	Pb	S	SiO2	Sn	Sr	TiO2	V	Zn	Zr	Total	LOI	Au	Ag
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm
	LOR	0.001	0.001	0.001	0.001	0.05	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.5
57622		0.009	0.046	0.010	0.294	68.0	0.001	0.062	0.65	<0.001	0.006	0.036	99.99	3.41	<0.001	<0.5
57623		0.003	0.072	0.009	0.148	66.9	<0.001	0.045	0.64	0.003	0.006	0.032	100.05	3.13		<0.5
57624		0.003	0.104	<0.001	0.146	15.70	<0.001	0.106	0.17	<0.001	0.006	0.002	100.00	9.49		1.4
57625		0.001	0.104	0.005	0.282	41.3	<0.001	0.090	0.40	0.001	0.005	0.019	100.00	5.66		<0.5
57626		0.004	0.098	0.010	0.226	52.1	<0.001	0.105	0.50	0.001	0.005	0.022	99.97	5.23		<0.5
57627		0.006	0.094	0.007	0.244	57.1	<0.001	0.069	0.58	0.004	0.005	0.027	99.97	3.96		1.1
57629		0.051	0.120	0.011	0.425	10.15	<0.001	0.133	0.14	0.004	0.010	0.007	100.05	8.12		<0.5
57630		0.005	0.073	0.004	0.182	24.5	<0.001	0.047	0.30	<0.001	0.010	0.006	99.97	7.70		<0.5
57631		0.007	0.122	0.007	0.201	7.81	<0.001	0.052	0.09	0.002	0.009	0.001	100.00	10.42		0.6
57632		0.008	0.087	0.004	0.491	23.6	<0.001	0.122	0.31	0.007	0.008	0.014	100.00	8.42		1.0
57633		0.006	0.132	0.006	0.394	7.71	<0.001	0.104	0.10	0.012	0.011	0.007	100.00	9.90		1.0
57634		0.007	0.188	0.004	0.310	18.10	<0.001	0.105	0.27	0.016	0.013	0.010	100.00	8.55		1.2
57635		0.006	0.128	0.001	0.337	15.45	<0.001	0.082	0.18	0.011	0.007	0.010	99.98	7.58		<0.5
57636		0.009	0.089	0.007	0.356	28.3	<0.001	0.104	0.31	0.050	0.009	0.018	100.05	6.86		1.7
57637		0.008	0.124	0.007	0.174	25.2	<0.001	0.071	0.22	0.008	0.012	0.016	99.99	8.23		1.1
57638		0.004	0.221	0.008	0.322	13.05	<0.001	0.123	0.20	0.022	0.012	0.016	100.00	9.12		0.6
57639		0.006	0.116	0.009	0.138	36.0	<0.001	0.067	0.53	0.029	0.011	0.031	100.00	4.76		1.5
57640		0.006	0.558	0.015	0.196	8.20	<0.001	0.103	0.10	0.072	0.011	0.011	100.00	6.51		<0.5
57641		0.008	0.134	0.008	0.438	23.8	<0.001	0.106	0.37	0.008	0.007	0.020	100.05	8.31		1.3
57642		0.019	0.136	0.007	0.290	27.8	<0.001	0.090	0.19	0.015	0.010	0.014	100.00	7.33	<0.001	0.6
57643		0.009	0.134	0.008	0.581	29.8	<0.001	0.144	0.35	0.016	0.009	0.032	100.05	7.63		<0.5
57644		0.012	0.150	0.008	0.235	17.35	<0.001	0.075	0.23	0.031	0.009	0.015	99.98	7.04		<0.5
57645		0.006	0.114	0.009	0.146	9.16	<0.001	0.047	0.11	0.042	0.014	0.010	100.00	7.57		0.5
57646		0.010	0.150	0.008	0.415	23.7	<0.001	0.110	0.34	0.015	0.012	0.022	99.98	8.19		0.6
57647		0.004	0.107	0.010	0.779	17.25	<0.001	0.227	0.26	0.011	0.009	0.019	100.00	9.35		0.7
57648		0.009	0.166	0.008	0.216	43.4	<0.001	0.115	0.63	0.013	0.018	0.030	100.00	6.32		<0.5
57649		0.005	0.213	0.009	0.213	72.7	0.001	0.020	0.35	0.009	0.004	0.028	100.00	2.63		<0.5
57650		0.002	0.128	0.007	0.276	80.7	0.002	0.026	0.40	0.011	0.003	0.024	99.96	1.80		<0.5
57651		0.005	0.110	0.011	0.312	7.08	<0.001	0.031	0.07	0.009	0.009	0.009	100.00	8.77		1.0
57652		0.009	0.100	0.006	1.325	7.79	<0.001	0.041	0.07	0.004	0.007	0.007	100.00	10.67		<0.5
57653		0.005	0.298	0.010	0.212	14.20	<0.001	0.079	0.21	0.030	0.009	0.016	100.00	7.62		0.5
57654		0.015	0.112	0.005	0.150	12.65	<0.001	0.027	0.17	0.010	0.011	0.008	99.98	10.00		<0.5
57655		0.014	0.163	0.010	0.600	10.80	<0.001	0.130	0.14	0.011	0.012	0.014	100.00	10.03		0.8
57656		0.008	0.122	0.007	0.400	12.65	<0.001	0.095	0.13	0.008	0.008	0.011	99.97	9.86		<0.5
57657		0.009	0.403	0.016	0.200	17.25	<0.001	0.074	0.22	0.042	0.012	0.016	99.98	7.78		0.6
57658		0.006	0.152	0.012	0.568	15.15	<0.001	0.221	0.18	0.012	0.009	0.019	100.05	8.18		0.8
57659		0.004	0.112	0.008	0.452	21.1	<0.001	0.194	0.22	0.012	0.008	0.017	99.94	8.56		0.8
57660		0.011	0.054	0.006	0.307	21.8	<0.001	0.148	0.29	0.008	0.007	0.018	100.05	8.95		0.8
57661		0.002	0.073	0.009	0.148	25.9	<0.001	0.058	0.38	0.008	0.006	0.021	100.00	6.30		<0.5
57662		0.003	0.129	0.007	0.376	19.20	<0.001	0.168	0.33	0.009	0.008	0.017	99.99	7.07	0.001	0.7

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%
	LOR	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01	10	0.01
57622		0.34	<5	4900	<0.5	<2	0.34	<0.5	8	17	5	17.35	<10	0.04	10	0.06
57623		0.61	5	3900	0.6	<2	0.24	<0.5	8	17	6	17.20	<10	0.06	10	0.06
57624		2.22	<5	1950	1.3	<2	0.48	0.8	14	13	6	44.9	10	0.26	<10	0.21
57625		0.62	<5	5440	0.9	<2	0.31	<0.5	5	11	6	32.8	<10	0.06	10	0.09
57626		0.73	<5	4750	1.0	<2	0.34	<0.5	6	15	5	25.7	10	0.09	10	0.16
57627		0.68	8	5740	0.6	<2	0.30	<0.5	8	20	8	22.4	<10	0.08	10	0.09
57629		1.29	<5	2360	1.0	4	0.39	<0.5	6	10	10	47.0	<10	0.14	10	0.17
57630		1.68	<5	1970	1.6	<2	0.38	0.5	5	13	5	41.2	10	0.18	<10	0.17
57631		0.98	11	4290	1.0	<2	0.41	<0.5	10	9	13	>50	<10	0.11	<10	0.33
57632		1.15	<5	2150	0.9	5	0.66	<0.5	9	16	19	43.6	10	0.12	<10	0.17
57633		1.17	<5	7360	1.0	<2	0.55	<0.5	13	9	12	>50	10	0.11	<10	0.21
57634		1.53	13	7200	1.2	<2	0.66	<0.5	22	14	20	44.2	10	0.14	10	0.22
57635		1.11	<5	4630	0.9	<2	0.57	<0.5	16	9	12	47.0	<10	0.10	10	0.16
57636		0.61	16	2280	1.0	<2	0.60	<0.5	20	8	11	40.5	<10	0.07	<10	0.13
57637		1.21	8	3180	1.4	2	0.43	<0.5	29	11	11	41.0	<10	0.13	<10	0.25
57638		1.32	11	5260	1.3	<2	0.86	<0.5	22	9	32	48.9	<10	0.13	10	0.27
57639		1.79	26	2100	2.2	<2	0.48	0.9	23	13	22	34.9	10	0.21	10	0.18
57640		1.09	32	7140	2.0	5	1.39	<0.5	26	5	40	49.4	<10	0.12	40	0.22
57641		0.86	<5	2920	0.9	<2	0.70	<0.5	10	10	10	40.9	<10	0.09	10	0.15
57642		0.92	<5	6150	1.0	<2	0.47	<0.5	16	12	12	40.4	<10	0.10	10	0.19
57643		0.68	10	1430	1.0	<2	0.82	<0.5	20	9	12	38.5	<10	0.08	10	0.16
57644		1.11	12	3840	1.1	<2	0.59	0.5	12	7	11	45.8	<10	0.12	<10	0.16
57645		1.16	7	1370	1.3	2	0.52	<0.5	15	6	9	49.6	10	0.13	<10	0.21
57646		0.73	8	2640	1.0	<2	0.56	<0.5	24	9	16	37.9	<10	0.08	10	0.17
57647		0.72	5	1080	0.9	<2	0.83	<0.5	11	10	11	42.5	<10	0.08	10	0.18
57648		0.85	9	4470	0.9	<2	0.54	<0.5	20	22	16	29.8	<10	0.10	10	0.14
57649		0.46	9	1270	<0.5	<2	0.43	<0.5	1	128	4	14.30	<10	0.04	<10	0.05
57650		0.22	<5	2800	<0.5	<2	0.36	<0.5	1	36	3	9.30	<10	0.02	10	0.02
57651		0.81	<5	940	1.0	2	0.61	<0.5	10	4	7	49.8	<10	0.09	<10	0.22
57652		0.86	<5	970	1.3	<2	1.86	0.5	20	4	10	48.4	<10	0.10	<10	0.19
57653		1.13	10	5760	1.2	<2	0.94	<0.5	14	9	23	46.8	<10	0.12	10	0.23
57654		1.62	9	1310	1.1	<2	0.37	<0.5	19	15	16	42.6	<10	0.21	<10	0.30
57655		1.02	7	2590	1.1	<2	1.00	<0.5	12	14	18	49.4	<10	0.10	10	0.31
57656		0.94	<5	4310	0.9	4	0.64	<0.5	8	9	11	47.2	<10	0.10	10	0.23
57657		1.30	30	7240	1.7	4	1.05	<0.5	23	10	35	44.9	<10	0.14	40	0.27
57658		1.02	16	2470	1.0	<2	0.55	<0.5	13	10	13	46.5	<10	0.11	10	0.20
57659		0.99	11	2070	1.0	<2	0.59	<0.5	11	10	10	43.4	10	0.10	10	0.25
57660		1.57	<5	2480	0.8	<2	0.50	<0.5	5	12	5	41.7	<10	0.21	<10	0.23
57661		1.01	<5	2350	0.8	<2	0.38	<0.5	2	9	6	41.4	<10	0.11	<10	0.16
57662		1.17	<5	3960	1.0	<2	0.51	<0.5	7	13	9	45.6	<10	0.12	10	0.15

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10	1
57622		996	1	0.87	11	470	9	0.27	<5	2	587	<20	0.32	<10	<10	48
57623		1120	1	0.74	11	680	13	0.13	<5	2	409	<20	0.30	<10	<10	67
57624		4130	32	0.60	11	1020	7	0.14	<5	4	1020	<20	0.10	<10	<10	54
57625		3510	1	1.01	5	1050	25	0.22	<5	2	874	<20	0.20	<10	<10	66
57626		2720	3	0.90	4	980	13	0.21	<5	2	976	<20	0.25	<10	<10	57
57627		2230	1	1.05	15	900	19	0.19	5	2	630	<20	0.29	<10	<10	81
57629		2980	1	0.68	12	1130	27	0.18	7	3	1120	<20	0.07	<10	<10	81
57630		3580	<1	0.45	9	720	10	0.17	6	4	473	<20	0.16	<10	<10	45
57631		2840	<1	0.83	33	1190	16	0.19	<5	3	512	<20	0.06	<10	<10	70
57632		1990	3	0.47	20	930	22	0.38	5	3	1300	<20	0.17	<10	<10	66
57633		3120	3	1.41	19	1350	11	0.39	<5	3	1110	<20	0.06	<10	<10	123
57634		3740	5	1.37	25	1850	20	0.30	8	5	1080	<20	0.15	<10	<10	162
57635		2840	1	0.91	15	1260	16	0.29	7	3	857	<20	0.10	<10	<10	105
57636		2710	2	0.46	22	890	13	0.35	<5	3	997	<20	0.16	<10	<10	474
57637		2920	2	0.66	33	1260	10	0.18	5	3	695	<20	0.12	<10	<10	75
57638		4260	9	1.04	38	2290	18	0.33	6	4	1210	<20	0.10	<10	<10	210
57639		6980	18	0.44	31	1160	15	0.20	7	4	634	<20	0.27	<10	10	267
57640		14150	17	1.35	37	5490	80	0.21	5	3	979	<20	0.06	10	<10	679
57641		2350	<1	0.60	10	1330	7	0.37	9	3	996	<20	0.17	<10	<10	71
57642		3470	2	1.15	23	1390	15	0.24	5	3	870	<20	0.11	<10	<10	129
57643		3140	6	0.38	20	1390	13	0.38	7	3	1350	<20	0.15	<10	<10	148
57644		5120	6	0.76	21	1470	8	0.23	5	3	721	<20	0.12	<10	<10	283
57645		5970	13	0.34	24	1090	8	0.14	7	4	442	<20	0.07	<10	<10	376
57646		4100	3	0.53	28	1400	21	0.24	<5	3	960	<20	0.15	<10	<10	125
57647		2230	2	0.26	25	1030	15	0.49	5	2	1980	<20	0.12	<10	<10	89
57648		2010	3	0.82	25	1660	17	0.22	11	3	1100	<20	0.31	<10	<10	113
57649		680	1	0.25	28	2070	13	0.21	<5	2	197	<20	0.16	<10	<10	75
57650		403	1	0.52	1	1200	13	0.25	<5	1	243	<20	0.18	<10	10	87
57651		8020	9	0.28	15	1060	7	0.30	7	4	293	<20	0.04	<10	<10	67
57652		3390	19	0.24	26	1000	<2	1.27	5	2	412	<20	0.04	<10	<10	34
57653		7820	10	1.22	29	2960	15	0.21	<5	3	748	<20	0.10	10	<10	275
57654		3620	3	0.35	30	1010	3	0.14	8	3	252	<20	0.09	<10	<10	81
57655		3620	3	0.55	22	1660	12	0.47	<5	3	1260	<20	0.08	<10	<10	101
57656		3280	1	0.85	16	1210	7	0.35	<5	3	909	<20	0.07	<10	<10	72
57657		8600	4	1.38	35	4040	52	0.21	<5	4	709	<20	0.12	<10	<10	392
57658		3460	1	0.55	47	1560	28	0.24	8	3	2070	<20	0.09	<10	<10	106
57659		2650	1	0.50	17	1150	13	0.30	<5	3	1840	<20	0.12	<10	<10	104
57660		3330	<1	0.67	8	550	10	0.30	5	4	1400	<20	0.15	<10	<10	64
57661		6360	1	0.53	3	730	18	0.15	<5	3	561	<20	0.19	<10	<10	61
57662		2970	1	0.78	14	1300	19	0.28	5	3	1610	<20	0.18	<10	<10	80

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61
	Analyte	W	Zn
	Units	ppm	ppm
	LOR	10	2
57622		<10	34
57623		<10	36
57624		<10	31
57625		<10	20
57626		<10	17
57627		<10	22
57629		<10	48
57630		<10	64
57631		<10	48
57632		<10	46
57633		<10	70
57634		<10	97
57635		<10	39
57636		<10	54
57637		<10	86
57638		<10	81
57639		<10	79
57640		<10	69
57641		<10	34
57642		<10	61
57643		<10	50
57644		<10	53
57645		<10	92
57646		<10	72
57647		<10	45
57648		<10	154
57649		<10	17
57650		<10	7
57651		<10	39
57652		<10	31
57653		<10	47
57654		<10	63
57655		<10	79
57656		<10	41
57657		<10	71
57658		<10	42
57659		<10	44
57660		<10	37
57661		<10	23
57662		<10	42

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	WEI-21	PUL-QC	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n
	Analyte	Recvd Wt.	Pass75um	Al2O3	As	Ba	CaO	Cl	Co	Cr2O3	Cu	Fe	K2O	MgO	Mn	Na2O
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.01	0.001	0.005
57663		1.11		1.80	0.003	0.435	0.51	0.096	0.004	0.003	0.009	50.30	0.12	0.44	0.327	<0.005
57664		1.17		1.28	0.002	0.397	0.58	0.049	0.003	0.003	0.006	37.78	0.10	0.21	0.153	<0.005
57665		1.31		3.36	0.003	0.038	2.17	0.260	0.005	0.010	0.007	46.10	0.29	0.53	0.311	0.068
57666		1.37		0.47	0.002	0.159	0.75	0.011	0.001	0.016	0.005	14.76	0.03	0.06	0.056	<0.005
57667		1.02	99.0	0.88	0.002	0.629	0.71	0.182	0.003	0.005	0.006	21.14	0.08	0.18	0.267	0.135
57668		1.00		1.62	0.004	1.070	0.83	0.093	0.004	0.005	0.010	45.74	0.13	0.36	0.415	<0.005
57669		1.20		1.19	0.003	0.410	0.83	0.076	0.002	0.002	0.006	39.20	0.09	0.22	0.235	<0.005
57670		0.89		1.82	0.009	0.420	0.73	0.026	0.007	0.004	0.008	39.13	0.14	0.26	0.403	<0.005
57671		1.02		0.97	0.003	1.490	0.93	0.030	0.003	0.015	0.007	34.73	0.07	0.22	0.130	<0.005
57672		1.01		1.41	0.003	0.697	1.54	0.108	0.004	0.012	0.008	49.08	0.10	0.30	0.233	<0.005
57673		0.91		1.07	0.003	1.220	0.86	0.112	0.002	0.005	0.007	28.79	0.08	0.24	0.187	0.008
57674		0.94		1.36	0.004	0.942	1.08	0.052	0.004	0.002	0.008	49.69	0.10	0.36	0.359	<0.005
57675		1.13		1.24	0.005	0.620	0.58	0.099	0.003	<0.001	0.005	50.22	0.09	0.27	0.211	0.080
57676		1.04		1.03	0.004	1.035	0.76	0.048	0.001	<0.001	0.003	41.19	0.08	0.23	0.158	0.059
57677		1.01		1.46	0.004	0.627	0.57	0.097	0.002	0.002	0.003	50.20	0.11	0.21	0.251	0.100
57678		1.18		1.38	0.004	0.654	0.81	0.055	0.002	0.008	0.004	53.49	0.10	0.21	0.216	0.072
57679		1.27		2.45	0.004	0.557	0.51	0.090	0.001	0.006	0.003	45.33	0.14	0.23	0.377	0.056
57680		1.01		2.31	0.005	0.513	0.73	0.097	0.003	0.002	0.004	46.58	0.15	0.41	0.385	0.064
57681		1.38		1.96	0.003	0.040	2.13	0.098	0.003	<0.001	0.005	49.18	0.16	0.32	0.149	0.068
57682		1.42		0.69	0.003	0.022	2.21	0.213	0.006	<0.001	0.004	52.96	0.04	0.47	0.350	0.198
57683		1.20		1.12	0.005	0.041	0.67	0.286	0.011	<0.001	0.006	53.76	0.09	0.66	0.474	0.178
57684		0.89		0.86	0.003	0.268	0.93	0.100	0.002	0.003	0.002	33.37	0.06	0.23	0.209	0.088
57685		0.98		1.60	0.003	0.866	0.65	0.071	0.001	0.004	0.002	30.81	0.13	0.18	0.124	0.124
57686		1.03		1.02	0.004	0.899	1.40	0.084	0.002	0.001	0.004	48.30	0.06	0.27	0.186	0.046
57687		1.01		0.91	0.003	0.778	0.88	0.040	0.001	0.010	0.002	34.25	0.07	0.21	0.230	0.030
57688		1.18		1.32	0.004	0.730	0.47	0.075	0.003	<0.001	0.004	46.35	0.08	0.24	0.197	0.052
57689		1.33		1.98	0.003	0.210	0.52	0.165	0.003	<0.001	0.007	52.80	0.13	0.54	0.263	0.160
57690		1.64		1.90	0.004	0.049	1.84	0.188	0.001	<0.001	0.002	53.18	0.14	0.39	0.615	0.184
57691		1.36		2.21	0.003	0.273	0.69	0.104	0.003	0.016	0.005	52.37	0.18	0.38	0.225	0.163
57692		1.26		1.20	0.003	0.241	0.58	0.067	0.001	0.077	0.002	43.80	0.10	0.22	0.100	0.049
57693		1.28		1.47	0.003	0.085	0.67	0.091	0.001	0.010	0.004	54.00	0.10	0.25	0.571	0.049
57694		1.25		1.94	0.004	0.178	0.93	0.124	0.003	0.007	0.003	51.86	0.16	0.27	0.413	0.229
57695		1.83		2.25	0.004	0.096	0.93	0.100	0.003	0.009	0.003	52.90	0.19	0.44	0.942	0.242
57696		1.19		1.38	0.004	0.641	0.58	0.097	0.003	0.012	0.004	48.81	0.11	0.26	0.268	0.110
57697		0.81		0.65	0.003	0.370	0.58	0.026	0.001	0.008	0.002	17.64	0.05	0.09	0.191	0.034
57698		1.82		1.38	0.002	0.060	0.55	0.114	0.002	0.002	0.002	29.33	0.11	0.18	0.511	0.140
57699		1.14		1.26	0.004	0.788	0.45	0.038	0.002	0.005	0.003	42.11	0.09	0.14	0.224	0.052
57700		1.03		2.79	0.004	0.449	0.65	0.171	0.003	0.007	0.004	36.98	0.25	0.38	0.341	0.400
57701		1.43		0.42	0.002	0.532	0.26	0.024	<0.001	0.007	<0.001	5.84	0.04	0.03	0.057	0.017
57702		1.61		7.67	0.001	0.045	0.68	0.030	0.001	0.043	0.002	2.68	0.84	0.67	0.042	0.432

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-GRA05	Au-ICP21	ME-ICP61
	Analyte	Ni	P	Pb	S	SiO2	Sn	Sr	TiO2	V	Zn	Zr	Total	LOI	Au	Ag
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm
	LOR	0.001	0.001	0.001	0.001	0.05	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.5
57663		0.005	0.114	0.010	0.158	13.30	<0.001	0.051	0.18	0.009	0.010	0.012	100.00	9.89		0.7
57664		0.003	0.080	0.009	0.374	33.7	<0.001	0.357	0.49	0.007	0.007	0.027	100.00	7.29		1.6
57665		0.010	0.071	0.005	0.925	13.05	<0.001	0.037	0.22	0.007	0.015	0.011	100.00	11.07		<0.5
57666		0.004	0.140	0.013	0.370	73.5	0.001	0.048	0.42	0.018	0.004	0.044	100.00	1.97		<0.5
57667		0.002	0.180	0.010	0.238	60.5	<0.001	0.065	0.74	0.014	0.008	0.044	100.00	4.10		<0.5
57668		0.006	0.217	0.012	0.340	19.35	<0.001	0.110	0.29	0.020	0.011	0.024	99.98	8.53		0.5
57669		0.002	0.060	0.005	0.421	31.8	<0.001	0.052	0.64	0.008	0.006	0.045	99.96	6.92		<0.5
57670		0.018	0.128	0.007	0.242	32.4	<0.001	0.073	0.48	0.036	0.010	0.028	100.05	6.04		<0.5
57671		0.009	0.084	0.007	0.719	36.2	<0.001	0.130	0.58	0.010	0.008	0.032	99.97	7.22		0.5
57672		0.009	0.099	0.007	0.843	12.40	<0.001	0.183	0.18	0.013	0.008	0.015	100.00	10.03		1.6
57673		0.003	0.136	0.011	0.494	46.4	<0.001	0.155	0.75	0.014	0.007	0.043	100.05	5.88		0.7
57674		0.004	0.108	0.006	0.658	12.35	<0.001	0.162	0.14	0.011	0.008	0.013	100.00	9.82		0.6
57675		0.001	0.076	0.001	0.349	14.05	<0.001	0.098	0.15	0.017	0.008	0.001	100.05	9.46		0.7
57676		<0.001	0.087	<0.001	0.602	26.8	<0.001	0.188	0.30	0.002	0.005	0.007	99.95	8.42		1.3
57677		0.002	0.097	<0.001	0.328	14.50	<0.001	0.082	0.16	0.003	0.006	<0.001	99.97	8.78		<0.5
57678		0.004	0.078	<0.001	0.504	10.20	<0.001	0.076	0.14	0.004	0.006	0.001	100.05	7.98		1.1
57679		0.002	0.069	<0.001	0.281	22.2	<0.001	0.093	0.32	0.012	0.006	0.006	100.05	7.05		1.0
57680		0.001	0.118	<0.001	0.316	17.95	<0.001	0.070	0.25	0.011	0.007	0.001	100.00	9.16		0.7
57681		0.002	0.097	<0.001	1.050	10.10	<0.001	0.040	0.12	<0.001	0.010	<0.001	100.00	11.56		<0.5
57682		0.003	0.030	<0.001	1.135	5.23	<0.001	0.016	0.03	<0.001	0.016	<0.001	100.00	11.72	0.001	<0.5
57683		0.008	0.095	0.003	0.070	7.68	<0.001	0.010	0.06	0.006	0.044	<0.001	99.99	11.17		0.9
57684		0.002	0.051	<0.001	0.479	40.2	<0.001	0.085	0.54	0.002	0.008	0.013	100.00	7.24		1.1
57685		0.001	0.060	0.001	0.517	43.6	<0.001	0.283	0.61	0.006	0.005	0.015	100.00	6.04		1.1
57686		0.001	0.065	<0.001	0.901	14.05	<0.001	0.116	0.14	0.004	0.007	0.002	99.99	10.03		0.7
57687		0.007	0.069	<0.001	0.559	38.5	<0.001	0.080	0.38	0.001	0.007	0.011	99.98	7.10		<0.5
57688		0.001	0.079	<0.001	0.324	20.5	<0.001	0.085	0.21	0.009	0.009	0.005	99.98	8.53		0.6
57689		0.004	0.082	0.003	0.139	10.15	<0.001	0.034	0.12	0.006	0.007	0.006	100.00	9.54		1.0
57690		<0.001	0.052	<0.001	0.342	9.59	<0.001	0.092	0.11	<0.001	0.005	<0.001	100.00	7.62		1.2
57691		0.017	0.061	0.001	0.318	8.98	<0.001	0.065	0.12	0.002	0.006	<0.001	100.00	10.61		1.0
57692		0.085	0.049	<0.001	0.260	24.5	<0.001	0.021	0.53	<0.001	0.004	0.022	99.96	8.67		<0.5
57693		0.015	0.058	<0.001	0.337	9.36	<0.001	0.076	0.12	<0.001	0.007	0.001	100.00	8.68		1.6
57694		0.009	0.087	<0.001	0.445	9.23	<0.001	0.213	0.09	<0.001	0.007	<0.001	100.00	10.52		1.6
57695		0.009	0.074	<0.001	0.192	10.10	<0.001	0.092	0.10	0.002	0.007	<0.001	100.00	7.80		<0.5
57696		0.013	0.102	<0.001	0.360	16.35	<0.001	0.072	0.19	0.002	0.008	0.003	100.00	8.79		<0.5
57697		0.001	0.147	0.004	0.212	68.1	<0.001	0.043	0.62	0.013	0.005	0.033	99.94	2.90		<0.5
57698		0.003	0.104	<0.001	0.223	48.4	<0.001	0.171	0.17	<0.001	0.014	0.007	100.00	5.24		1.7
57699		0.006	0.095	<0.001	0.307	29.3	<0.001	0.064	0.39	0.003	0.016	0.012	99.98	5.73		<0.5
57700		0.011	0.116	<0.001	0.239	31.5	<0.001	0.154	0.42	0.013	0.009	0.019	99.95	8.39		0.8
57701		0.002	0.034	<0.001	0.196	87.1	<0.001	0.027	1.32	0.005	0.002	0.044	100.05	1.11		<0.5
57702		0.036	0.022	0.001	0.022	82.1	<0.001	0.014	0.44	0.008	0.004	0.022	99.97	2.90		<0.5

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%
	LOR	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01	10	0.01
57663		1.13	<5	4670	0.9	<2	0.37	<0.5	17	11	11	48.4	<10	0.11	<10	0.25
57664		0.80	<5	2540	0.9	<2	0.42	<0.5	10	11	6	36.7	<10	0.09	<10	0.12
57665		2.08	<5	610	0.8	<2	1.58	<0.5	27	18	11	45.0	10	0.26	<10	0.31
57666		0.31	17	1880	<0.5	<2	0.57	<0.5	2	62	8	15.15	<10	0.03	10	0.04
57667		0.54	8	5680	0.9	<2	0.52	<0.5	14	24	14	20.4	<10	0.07	10	0.11
57668		1.03	11	>10000	1.2	<2	0.60	<0.5	14	15	23	44.4	<10	0.12	20	0.21
57669		0.72	5	2920	0.6	<2	0.59	<0.5	5	11	7	36.8	<10	0.08	<10	0.13
57670		1.08	61	4420	0.9	<2	0.51	0.5	45	18	19	36.2	<10	0.12	10	0.15
57671		0.58	<5	1030	0.9	<2	0.66	<0.5	8	12	10	32.6	<10	0.06	10	0.13
57672		0.85	<5	740	0.9	<2	1.13	<0.5	10	6	10	47.2	<10	0.08	<10	0.18
57673		0.60	11	1920	0.7	<2	0.61	<0.5	9	15	15	26.5	<10	0.07	10	0.14
57674		0.81	10	1360	0.9	<2	0.74	<0.5	13	9	10	45.7	<10	0.08	<10	0.20
57675		0.75	10	6230	0.8	<2	0.42	<0.5	14	7	10	46.7	<10	0.08	<10	0.16
57676		0.62	<5	1060	0.9	<2	0.57	<0.5	7	7	7	38.4	<10	0.07	10	0.14
57677		0.89	<5	4350	1.0	<2	0.42	<0.5	14	8	7	47.2	<10	0.10	<10	0.13
57678		0.84	<5	1470	1.0	<2	0.59	<0.5	5	9	8	>50	10	0.09	<10	0.13
57679		1.50	10	5520	0.9	3	0.38	<0.5	11	17	12	43.1	10	0.12	10	0.14
57680		1.41	14	5330	0.9	<2	0.54	<0.5	17	10	16	44.2	10	0.13	<10	0.24
57681		1.22	<5	530	1.0	<2	1.59	<0.5	25	5	11	47.0	10	0.13	<10	0.19
57682		0.45	<5	300	0.7	<2	1.67	<0.5	43	2	3	>50	<10	0.04	<10	0.28
57683		0.65	13	470	0.7	<2	0.47	<0.5	87	3	26	47.1	<10	0.08	<10	0.35
57684		0.50	<5	2150	0.5	<2	0.65	<0.5	17	9	3	29.2	<10	0.06	<10	0.13
57685		0.98	7	960	0.7	<2	0.49	<0.5	11	13	7	28.7	<10	0.11	10	0.11
57686		0.62	9	730	0.7	<2	1.03	<0.5	16	9	10	44.9	<10	0.06	<10	0.16
57687		0.55	<5	1040	1.0	<2	0.65	<0.5	15	8	10	31.6	<10	0.06	10	0.13
57688		0.81	7	4150	1.4	<2	0.35	<0.5	16	8	10	44.1	<10	0.07	10	0.15
57689		1.17	<5	2220	1.0	<2	0.40	<0.5	10	7	9	>50	<10	0.13	<10	0.30
57690		1.06	<5	550	0.7	<2	1.22	<0.5	2	7	5	45.4	<10	0.11	<10	0.20
57691		1.34	5	2810	0.9	<2	0.51	<0.5	7	8	8	49.0	10	0.15	<10	0.22
57692		0.72	<5	2570	0.7	<2	0.42	<0.5	12	9	5	41.0	<10	0.09	<10	0.14
57693		0.88	<5	950	0.8	<2	0.48	<0.5	4	7	10	>50	<10	0.09	<10	0.15
57694		1.19	<5	1920	1.1	<2	0.68	0.8	21	6	14	49.1	<10	0.14	<10	0.16
57695		1.31	5	1020	0.8	<2	0.66	0.5	26	7	14	47.7	<10	0.16	<10	0.24
57696		0.79	<5	3450	0.8	<2	0.40	<0.5	12	9	5	43.7	<10	0.09	<10	0.15
57697		0.39	13	3600	0.9	<2	0.44	<0.5	8	38	10	16.50	<10	0.05	20	0.06
57698		0.83	<5	700	0.9	<2	0.42	<0.5	21	12	5	28.0	<10	0.10	<10	0.11
57699		0.78	<5	3000	1.3	<2	0.35	<0.5	20	11	17	40.1	10	0.08	<10	0.09
57700		1.63	10	4600	2.4	<2	0.48	0.6	30	14	21	34.1	10	0.22	10	0.22
57701		0.24	9	5320	<0.5	<2	0.20	<0.5	3	22	4	6.00	<10	0.03	10	0.03
57702		3.64	<5	390	0.7	2	0.48	<0.5	9	28	12	2.69	10	0.64	10	0.32

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10	1
57663		3050	3	0.90	25	1150	13	0.17	6	3	500	<20	0.10	<10	<10	77
57664		1520	<1	0.57	10	810	16	0.34	<5	2	3300	<20	0.25	<10	<10	56
57665		2930	6	0.28	36	700	9	0.91	6	4	400	<20	0.13	<10	<10	64
57666		572	1	0.38	5	1450	45	0.38	<5	2	483	<20	0.20	<10	<10	169
57667		2550	1	1.20	18	1780	21	0.22	<5	3	608	<20	0.34	<10	<10	131
57668		3890	2	2.10	23	2200	24	0.34	6	3	1050	<20	0.14	<10	<10	172
57669		2260	1	0.61	9	600	10	0.38	6	3	501	<20	0.27	<10	<10	63
57670		3670	7	0.83	151	1240	19	0.24	<5	4	684	<20	0.23	<10	<10	326
57671		1260	1	0.23	13	820	7	0.38	7	3	1130	<20	0.26	<10	<10	87
57672		2260	3	0.21	15	1010	9	0.69	7	2	1720	<20	0.08	<10	<10	111
57673		1760	3	0.46	19	1310	24	0.25	<5	3	1330	<20	0.29	<10	<10	118
57674		3210	2	0.31	23	990	7	0.45	<5	2	1430	<20	0.07	10	<10	92
57675		1990	1	1.20	15	740	9	0.32	<5	2	947	<20	0.08	<10	<10	205
57676		1550	<1	0.26	11	850	11	0.36	<5	2	1740	<20	0.14	<10	<10	65
57677		2310	1	0.88	13	940	11	0.26	9	3	832	<20	0.09	<10	<10	74
57678		2080	1	0.34	6	770	8	0.36	<5	2	764	<20	0.07	<10	<10	80
57679		3550	2	1.04	13	690	26	0.26	11	3	938	<20	0.17	<10	<10	165
57680		3600	6	1.01	16	1170	21	0.30	5	3	730	<20	0.13	<10	<10	152
57681		1430	2	0.18	24	950	9	1.01	<5	3	444	<20	0.07	<10	<10	25
57682		3240	13	0.24	24	320	12	1.10	7	1	203	<20	0.02	10	<10	10
57683		4100	13	0.24	81	890	53	0.06	10	1	148	<20	0.03	<10	<10	90
57684		1950	2	0.47	17	480	7	0.42	<5	2	815	<20	0.24	<10	<10	63
57685		1190	1	0.29	11	610	17	0.32	<5	3	2690	<20	0.31	<10	<10	101
57686		1760	2	0.19	19	650	10	0.66	<5	2	1090	<20	0.07	<10	<10	87
57687		2210	1	0.23	16	680	13	0.38	<5	2	773	<20	0.18	<10	<10	63
57688		1920	<1	0.79	25	790	10	0.24	<5	3	868	<20	0.11	<10	<10	133
57689		2470	3	0.56	12	830	7	0.13	<5	3	383	<20	0.07	<10	<10	61
57690		5110	5	0.25	6	470	6	0.30	9	2	867	<20	0.06	<10	<10	44
57691		2150	2	0.66	12	610	5	0.30	6	3	645	<20	0.07	<10	<10	55
57692		978	<1	0.53	20	490	6	0.24	<5	2	262	<20	0.22	<10	<10	45
57693		5190	3	0.23	14	560	3	0.31	<5	2	769	<20	0.06	10	<10	36
57694		3810	11	0.55	25	860	2	0.42	<5	3	2090	<20	0.06	<10	<10	37
57695		7750	18	0.39	33	690	5	0.17	7	3	908	<20	0.06	<10	<10	58
57696		2340	<1	0.74	21	960	14	0.27	<5	3	689	<20	0.10	<10	<10	57
57697		1850	1	0.67	11	1390	22	0.19	<5	2	456	<20	0.28	<10	<10	163
57698		4860	6	0.26	29	1030	6	0.21	<5	2	1670	<20	0.09	<10	<10	34
57699		2220	1	0.62	24	930	21	0.19	6	3	673	<20	0.17	<10	<10	78
57700		3150	1	1.12	30	1110	16	0.22	5	4	1480	<20	0.19	<10	<10	163
57701		546	1	0.10	6	340	14	0.21	<5	3	348	<20	0.66	<10	<10	87
57702		384	1	0.31	17	230	10	0.02	<5	6	138	<20	0.25	<10	<10	64

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method Analyte Units LOR	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
57663		<10	59
57664		<10	38
57665		<10	120
57666		<10	12
57667		<10	56
57668		<10	61
57669		<10	23
57670		<10	66
57671		<10	42
57672		<10	36
57673		<10	33
57674		<10	39
57675		<10	44
57676		<10	26
57677		<10	33
57678		<10	24
57679		<10	40
57680		<10	47
57681		<10	77
57682		<10	129
57683		<10	402
57684		<10	64
57685		<10	27
57686		<10	41
57687		<10	43
57688		<10	62
57689		<10	36
57690		<10	21
57691		<10	32
57692		<10	24
57693		<10	34
57694		<10	49
57695		<10	46
57696		<10	49
57697		<10	31
57698		<10	122
57699		<10	142
57700		<10	76
57701		<10	8
57702		<10	35

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Sample Description	Method	WEI-21	PUL-QC	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n
	Analyte	Recvd Wt.	Pass75um	Al2O3	As	Ba	CaO	Cl	Co	Cr2O3	Cu	Fe	K2O	MgO	Mn	Na2O
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.01	0.001	0.005
57703		1.43		0.45	0.002	0.111	0.62	0.019	<0.001	0.014	<0.001	19.01	0.03	0.01	0.026	0.005
57704		1.08		1.69	0.004	0.168	0.59	0.033	<0.001	0.010	<0.001	16.48	0.34	0.02	0.040	0.066
57705		1.28		1.02	0.003	0.279	0.77	0.037	<0.001	0.077	0.001	27.62	0.14	0.04	0.108	0.031
57706		0.97		2.32	0.006	0.768	1.58	0.150	0.003	0.007	0.006	41.75	0.18	0.40	0.726	0.160
57707		1.09	98.0	1.90	0.005	1.285	0.76	0.166	0.004	0.009	0.006	47.21	0.14	0.35	0.303	0.132
57708		1.34		3.38	0.003	0.104	0.47	0.144	0.002	0.132	0.004	46.75	0.26	0.28	0.385	0.168
57709		1.34		1.22	0.005	0.108	0.68	0.152	0.002	0.001	0.005	54.36	0.10	0.33	0.236	0.088
57710		1.33		1.46	0.004	1.050	0.82	0.079	0.002	0.021	0.003	45.23	0.10	0.19	0.276	0.056
57711		1.17		2.00	0.004	0.102	1.25	0.094	0.002	0.045	0.004	53.58	0.15	0.30	2.41	0.026
57712		1.05		2.18	0.005	1.110	1.22	0.154	0.002	0.001	0.005	50.94	0.18	0.37	0.457	0.095
57713		1.10		2.19	0.003	0.634	0.96	0.208	0.002	0.002	0.005	50.92	0.18	0.37	0.404	0.145
57714		1.17		0.68	0.002	0.356	0.66	0.109	<0.001	0.004	0.002	23.40	0.05	0.15	0.121	0.089
57715		1.07		1.88	0.003	0.241	1.28	0.281	0.001	0.001	0.003	39.14	0.15	0.39	0.512	0.238
57716		1.32		1.21	0.004	0.338	0.44	0.192	0.003	0.002	0.004	48.20	0.08	0.28	0.840	0.179
57717		1.06		1.44	0.005	0.806	0.77	0.171	0.003	<0.001	0.006	54.16	0.11	0.37	0.522	0.128
57718		1.32		4.31	0.003	0.107	0.56	0.311	0.003	0.008	0.005	43.98	0.34	0.77	0.338	0.312
57719		1.68		1.18	0.006	0.156	1.92	0.112	0.004	0.062	0.006	54.86	0.06	0.43	0.353	0.081
57720		1.01		1.42	0.006	0.164	0.44	0.178	0.001	0.013	0.005	13.78	0.14	0.21	0.190	0.271
57721		1.21		1.37	0.004	0.358	0.61	0.504	0.004	0.005	0.005	42.54	0.09	0.43	0.221	0.452
57722		1.09		3.49	0.003	0.132	0.90	0.439	0.003	<0.001	0.006	43.78	0.26	0.94	0.281	0.537
57723		1.05		1.18	0.003	0.357	1.32	0.164	0.003	0.011	0.007	47.63	0.05	0.30	0.298	0.138
57724		0.87		1.81	0.003	0.877	0.90	0.191	0.002	<0.001	0.007	39.92	0.12	0.37	0.263	0.362
57725		1.08		1.04	0.002	0.670	0.68	0.110	0.001	<0.001	0.006	31.98	0.05	0.24	0.194	0.181
57726		1.09		0.95	0.003	0.666	0.50	0.091	0.001	0.074	0.005	31.99	0.07	0.18	0.193	0.081
57727		1.21		2.00	0.005	0.755	0.96	0.064	0.001	0.001	0.005	51.13	0.10	0.22	0.194	0.027
57728		1.01		1.91	0.004	0.782	1.00	0.068	0.001	<0.001	0.006	52.27	0.12	0.22	0.197	0.039
57729		1.31		1.02	0.004	1.075	1.35	0.106	0.001	<0.001	0.004	30.92	0.09	0.30	0.221	0.074
57730		1.03		2.62	0.004	1.690	0.81	0.094	0.002	0.020	0.009	51.71	0.22	0.49	0.306	0.172
57731		1.29		1.62	0.003	0.845	0.60	0.108	0.002	<0.001	0.007	38.38	0.09	0.25	0.255	0.092
57732		1.01		1.53	0.004	0.820	0.61	0.102	0.001	<0.001	0.005	37.46	0.11	0.24	0.249	0.095
57733		1.32		2.78	0.003	0.229	0.60	0.130	0.002	0.016	0.008	50.81	0.20	0.50	0.755	0.181
57734		1.12		2.70	0.004	0.216	0.62	0.104	0.001	0.003	0.007	50.39	0.22	0.47	0.746	0.183
57735		1.18		1.40	0.004	0.498	0.88	0.130	0.005	0.419	0.010	55.47	0.08	0.29	0.306	0.093
57736		1.06		0.74	0.002	0.312	0.49	0.049	0.001	<0.001	0.004	14.32	0.09	0.06	0.065	0.090
57737		1.22		4.70	0.003	0.365	0.56	0.068	0.005	<0.001	0.006	43.31	0.29	0.37	0.427	0.549
57738		1.58		0.77	0.002	0.058	1.46	0.019	0.006	0.025	0.005	20.09	0.05	0.12	0.477	0.045
57739		1.13		0.30	0.002	0.225	0.46	0.008	<0.001	0.004	0.001	3.89	0.03	0.01	0.028	0.017
57740		1.18		0.77	0.002	0.392	0.42	0.053	0.002	0.004	0.006	16.31	0.07	0.11	0.166	0.090
57741		1.46		0.79	0.002	0.152	0.59	0.027	0.001	0.005	0.004	16.91	0.05	0.12	0.116	0.059
57742		1.86		0.25	0.002	0.091	0.80	0.018	<0.001	0.014	0.003	9.32	0.03	0.03	0.042	0.033

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	Analyte	Ni	P	Pb	S	SiO2	Sn	Sr	TiO2	V	Zn	Zr	Total	LOI	Au	Ag
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm
	LOR	0.001	0.001	0.001	0.001	0.05	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.5
57703		<0.001	0.077	0.001	0.384	68.4	<0.001	0.026	0.37	0.011	0.002	0.013	100.00	1.54	0.002	<0.5
57704		0.001	0.181	<0.001	0.857	65.6	<0.001	0.075	0.46	0.009	0.008	0.013	99.69	4.38		<0.5
57705		0.050	0.067	<0.001	0.689	51.2	<0.001	0.049	0.33	0.004	0.004	0.017	99.95	4.33		0.5
57706		0.007	0.441	0.004	0.259	24.2	<0.001	0.068	0.31	0.034	0.010	0.009	100.00	7.30		<0.5
57707		0.009	0.216	0.002	0.411	16.15	<0.001	0.114	0.19	0.011	0.013	0.002	100.00	9.14		<0.5
57708		0.200	0.058	<0.001	0.182	18.50	<0.001	0.036	0.29	0.003	0.006	0.005	99.98	7.95		<0.5
57709		0.002	0.084	<0.001	0.300	7.42	<0.001	0.034	0.07	0.046	0.008	<0.001	100.00	10.69		<0.5
57710		0.020	0.110	<0.001	0.571	21.4	<0.001	0.206	0.32	0.006	0.010	0.010	99.99	7.34		<0.5
57711		0.069	0.247	<0.001	0.094	9.17	<0.001	0.096	0.12	0.001	0.005	<0.001	100.00	5.75		<0.5
57712		0.001	0.172	<0.001	0.648	9.05	<0.001	0.190	0.12	0.007	0.009	0.002	100.00	9.64		<0.5
57713		0.001	0.162	0.003	0.512	9.70	<0.001	0.380	0.13	0.003	0.008	0.007	100.00	9.92		<0.5
57714		0.001	0.060	<0.001	0.398	57.2	<0.001	0.142	0.89	0.002	0.003	0.040	99.97	4.74		<0.5
57715		<0.001	0.343	0.001	0.224	29.0	<0.001	0.112	0.37	<0.001	0.005	0.010	99.98	7.95		<0.5
57716		0.003	0.065	0.001	0.201	17.65	<0.001	0.057	0.21	0.015	0.006	<0.001	99.99	8.51		<0.5
57717		0.002	0.128	0.001	0.408	5.99	<0.001	0.110	0.07	0.011	0.008	<0.001	100.00	10.42		<0.5
57718		0.009	0.089	<0.001	0.147	18.45	<0.001	0.042	0.32	0.007	0.010	0.013	100.05	10.50		<0.5
57719		0.097	0.073	<0.001	0.139	5.94	<0.001	0.070	0.05	0.029	0.019	0.004	100.00	10.24		<0.5
57720		0.009	0.074	0.002	0.067	72.7	<0.001	0.030	0.59	0.096	0.010	0.029	100.05	3.30		<0.5
57721		0.005	0.088	<0.001	0.220	24.8	<0.001	0.040	0.26	0.008	0.013	0.010	100.05	9.11		<0.5
57722		0.024	0.085	0.004	0.321	18.30	<0.001	0.076	0.32	0.006	0.011	0.013	100.05	10.54		<0.5
57723		0.052	0.076	0.002	0.664	16.20	<0.001	0.126	0.25	0.010	0.007	0.010	100.05	9.40	<0.001	<0.5
57724		0.013	0.099	0.004	0.357	28.9	<0.001	0.096	0.39	0.010	0.009	0.015	99.95	7.17		<0.5
57725		0.003	0.064	0.005	0.338	43.3	<0.001	0.104	0.55	0.008	0.007	0.024	99.97	5.89		<0.5
57726		0.098	0.062	<0.001	0.325	42.9	<0.001	0.106	0.56	0.008	0.005	0.025	100.05	6.61		<0.5
57727		0.046	0.086	<0.001	0.576	12.65	<0.001	0.130	0.17	0.008	0.005	0.005	99.98	7.68		<0.5
57728		<0.001	0.088	<0.001	0.571	12.40	<0.001	0.138	0.19	0.009	0.007	0.010	99.99	6.32		<0.5
57729		0.001	0.134	<0.001	0.422	39.4	<0.001	0.174	0.43	0.008	0.004	0.035	100.05	9.90		<0.5
57730		0.053	0.164	0.004	0.601	6.72	<0.001	0.238	0.16	0.008	0.008	0.013	100.00	10.16		<0.5
57731		0.037	0.136	0.005	0.328	33.2	<0.001	0.085	0.43	0.016	0.007	0.028	100.00	6.07		0.5
57732		<0.001	0.132	<0.001	0.306	31.2	<0.001	0.084	0.43	0.015	0.005	0.026	100.05	9.66		<0.5
57733		0.017	0.089	0.001	0.239	10.90	<0.001	0.052	0.14	0.009	0.007	0.005	100.00	9.70		<0.5
57734		0.004	0.090	<0.001	0.224	10.65	<0.001	0.052	0.14	0.008	0.006	0.005	100.00	10.71		<0.5
57735		0.634	0.156	0.005	0.443	6.36	<0.001	0.073	0.08	0.011	0.013	0.008	99.99	7.54		<0.5
57736		0.007	0.100	0.006	0.352	73.6	0.001	0.044	0.47	0.011	0.005	0.033	100.05	2.30		<0.5
57737		0.010	0.116	0.001	0.186	20.1	<0.001	0.136	0.27	0.008	0.008	0.010	100.00	9.23		1.0
57738		0.008	0.121	0.004	0.234	63.4	<0.001	0.026	0.39	0.010	0.034	0.016	99.99	3.26		<0.5
57739		<0.001	0.017	<0.001	0.251	90.9	<0.001	0.024	1.12	0.006	0.001	0.041	100.05	0.55		<0.5
57740		0.003	0.070	0.009	0.204	69.8	<0.001	0.101	0.96	0.013	0.010	0.058	100.05	2.84		<0.5
57741		0.002	0.131	0.004	0.193	69.8	<0.001	0.033	0.50	0.008	0.007	0.022	100.05	2.71		<0.5
57742		0.005	0.121	0.001	0.333	82.6	<0.001	0.012	0.33	0.006	0.002	0.017	99.96	1.19		<0.5

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	Analyte	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%
	LOR	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01	10	0.01
57703		0.25	9	1100	<0.5	<2	0.43	0.6	1	79	1	18.15	<10	0.03	10	0.02
57704		0.87	14	1620	2.9	<2	0.42	<0.5	2	59	3	15.80	<10	0.26	10	0.03
57705		0.56	8	2210	0.6	<2	0.56	<0.5	8	152	6	26.9	<10	0.12	10	0.04
57706		1.24	27	7040	1.3	<2	1.06	<0.5	21	13	34	39.8	<10	0.14	40	0.20
57707		1.06	14	10000	1.2	3	0.52	0.8	24	16	20	45.6	<10	0.11	20	0.18
57708		1.84	<5	1100	0.8	<2	0.33	0.8	12	17	10	45.9	<10	0.21	10	0.14
57709		0.70	17	1120	0.9	<2	0.48	0.5	8	8	14	>50	<10	0.08	10	0.17
57710		0.79	6	2160	1.3	<2	0.56	<0.5	11	10	8	43.3	<10	0.08	10	0.10
57711		1.10	<5	1020	0.8	6	0.83	1.7	5	5	6	>50	<10	0.12	10	0.15
57712		1.21	12	7880	1.0	4	0.84	0.6	7	11	16	>50	<10	0.14	20	0.19
57713		1.16	6	5720	1.0	<2	0.63	<0.5	3	10	12	48.5	<10	0.14	10	0.18
57714		0.39	7	3190	0.5	3	0.47	<0.5	4	19	6	23.2	<10	0.05	10	0.09
57715		1.06	6	2400	0.9	<2	0.90	<0.5	1	11	4	38.5	<10	0.13	20	0.20
57716		0.68	14	3300	0.7	<2	0.31	<0.5	14	5	9	47.3	<10	0.07	10	0.14
57717		0.80	13	7390	0.8	<2	0.52	<0.5	14	4	17	>50	<10	0.09	10	0.19
57718		2.18	<5	1100	1.0	5	0.36	<0.5	21	21	13	41.6	<10	0.27	10	0.37
57719		0.62	24	1560	0.8	15	1.27	0.7	30	6	18	>50	<10	0.06	10	0.21
57720		0.69	48	1620	1.0	7	0.29	<0.5	15	27	24	13.25	<10	0.11	10	0.11
57721		0.69	13	3400	0.5	6	0.39	<0.5	36	20	12	39.9	<10	0.07	10	0.22
57722		1.77	<5	1250	0.8	5	0.61	<0.5	17	23	12	42.4	10	0.22	10	0.44
57723		0.62	8	3010	0.7	3	0.85	<0.5	17	10	7	46.2	<10	0.06	10	0.14
57724		0.86	6	5880	0.8	2	0.39	<0.5	4	11	7	38.4	<10	0.10	10	0.14
57725		0.49	11	4790	0.6	<2	0.33	<0.5	7	11	5	30.3	<10	0.05	10	0.10
57726		0.84	<5	3450	1.0	3	0.36	<0.5	2	9	3	46.1	<10	0.09	10	0.12
57727		0.99	<5	1970	0.8	<2	0.66	0.7	5	8	8	>50	<10	0.09	10	0.11
57728		0.55	16	2900	0.7	2	0.93	<0.5	8	12	9	31.1	<10	0.07	10	0.14
57729		0.81	6	2450	0.9	2	0.44	0.5	5	9	12	>50	<10	0.09	<10	0.17
57730		1.26	8	5820	1.0	6	0.53	0.6	7	18	16	48.4	<10	0.19	10	0.24
57731		0.82	8	4380	0.8	7	0.42	1.1	6	14	13	36.5	<10	0.09	10	0.14
57732		1.28	8	4180	1.2	<2	0.50	<0.5	17	10	15	48.7	<10	0.16	10	0.19
57733		1.44	<5	2200	0.7	4	0.42	<0.5	6	10	26	>50	<10	0.18	10	0.24
57734		0.72	6	5210	1.6	<2	0.74	<0.5	17	8	24	>50	<10	0.08	<10	0.18
57735		1.49	7	5940	1.6	2	0.40	<0.5	20	18	14	41.8	<10	0.15	10	0.15
57736		0.42	10	3100	<0.5	<2	0.37	<0.5	4	46	6	14.30	<10	0.09	10	0.04
57737		2.75	<5	3800	1.4	<2	0.48	<0.5	27	21	10	48.5	<10	0.28	10	0.21
57738		0.42	10	590	2.5	<2	1.09	<0.5	54	120	25	18.65	<10	0.05	<10	0.07
57739		0.18	<5	2340	<0.5	<2	0.36	<0.5	3	34	4	4.05	<10	0.03	10	0.02
57740		0.44	6	3930	0.6	<2	0.34	<0.5	14	20	12	16.20	<10	0.06	10	0.06
57741		0.44	10	1540	<0.5	<2	0.42	<0.5	4	41	7	16.30	<10	0.05	<10	0.06
57742		0.14	10	920	<0.5	<2	0.61	<0.5	2	44	3	8.89	10	0.03	<10	0.02

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10	1
57703		267	1	0.04	2	730	22	0.40	6	1	295	<20	0.19	<10	<10	136
57704		389	2	0.09	5	1710	47	0.90	<5	2	786	<20	0.22	<10	<10	128
57705		1005	1	0.07	4	700	14	0.75	<5	2	516	<20	0.17	<10	<10	75
57706		6360	5	0.23	27	4200	49	0.29	<5	4	662	<20	0.16	<10	<10	328
57707		2730	2	0.25	30	2120	18	0.43	<5	3	1100	<20	0.10	<10	<10	137
57708		3440	<1	0.16	19	570	8	0.22	<5	4	393	<20	0.16	<10	<10	52
57709		2140	1	0.10	15	860	10	0.34	<5	3	378	<20	0.04	<10	<10	439
57710		2470	3	0.09	50	1070	12	0.41	6	2	1870	<20	0.16	<10	<10	91
57711		20800	8	0.06	6	2390	13	0.10	<5	3	948	<20	0.07	<10	<10	42
57712		4120	2	0.20	18	1710	18	0.67	<5	3	1810	<20	0.07	<10	<10	96
57713		3470	1	0.20	17	1540	23	0.55	<5	3	3460	<20	0.07	<10	<10	64
57714		1240	2	0.12	9	610	11	0.43	<5	2	1370	<20	0.41	<10	<10	50
57715		4700	1	0.22	3	3370	10	0.25	<5	3	1110	<20	0.19	<10	<10	40
57716		7520	5	0.19	10	660	24	0.22	<5	2	589	<20	0.11	<10	<10	166
57717		4550	3	0.21	16	1250	27	0.45	<5	2	1060	<20	0.04	<10	<10	136
57718		2940	2	0.24	23	820	15	0.19	<5	4	435	<20	0.17	<10	<10	56
57719		3120	13	0.10	28	720	19	0.17	<5	2	724	<20	0.03	<10	<10	246
57720		1800	8	0.21	19	700	17	0.08	<5	3	344	<20	0.29	<10	10	864
57721		1980	6	0.37	21	810	18	0.24	<5	2	421	<20	0.13	<10	<10	68
57722		2490	4	0.42	24	820	17	0.35	<5	4	780	<20	0.17	<10	<10	50
57723		2630	3	0.12	15	740	10	0.75	<5	2	1230	<20	0.13	<10	<10	82
57724		2420	2	0.23	9	940	16	0.33	7	2	954	<20	0.20	<10	<10	88
57725		1795	2	0.12	9	600	16	0.32	<5	2	1010	<20	0.27	<10	<10	65
57726		2410	1	0.17	4	1120	16	0.29	<5	2	1120	<20	0.11	<10	<10	35
57727		1805	3	0.07	7	840	17	0.49	<5	3	1290	<20	0.10	<10	<10	78
57728		2170	3	0.11	20	1340	19	0.29	<5	2	1640	<20	0.19	<10	<10	80
57729		2640	2	0.09	18	590	15	0.36	<5	2	1550	<20	0.05	<10	<10	48
57730		2690	1	0.08	16	1620	23	0.35	5	3	2230	<20	0.09	<10	<10	70
57731		2420	2	0.03	12	1350	20	0.22	<5	3	822	<20	0.21	<10	<10	143
57732		2010	8	0.17	26	1480	14	0.26	7	4	709	<20	0.10	<10	<10	181
57733		6770	9	0.17	15	890	7	0.26	<5	3	559	<20	0.08	<10	10	76
57734		2720	2	0.94	34	1510	10	0.47	<5	3	793	<20	0.04	<10	<10	58
57735		1690	1	1.06	30	930	10	0.30	<5	5	714	<20	0.25	<10	<10	88
57736		601	2	0.57	5	920	14	0.34	<5	2	439	<20	0.26	<10	<10	96
57737		3990	2	1.06	32	1150	6	0.20	<5	6	1480	<20	0.17	<10	<10	78
57738		4130	4	0.12	48	1060	32	0.23	<5	2	290	<20	0.20	<10	<10	80
57739		285	<1	0.41	5	160	8	0.26	<5	3	395	<20	0.59	<10	<10	55
57740		1600	3	0.73	18	640	17	0.22	<5	3	996	<20	0.48	<10	<10	118
57741		1060	2	0.29	7	1190	10	0.21	<5	2	362	<20	0.26	<10	<10	67
57742		371	2	0.17	4	1070	7	0.33	<5	1	186	<20	0.16	<10	10	51

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Sample Description	Method	ME-ICP61	ME-ICP61
	Analyte	W	Zn
	Units	ppm	ppm
	LOR	10	2
57703		<10	6
57704		<10	82
57705		<10	23
57706		<10	72
57707		<10	103
57708		<10	40
57709		<10	51
57710		<10	69
57711		<10	24
57712		<10	61
57713		<10	43
57714		<10	16
57715		<10	20
57716		<10	30
57717		<10	41
57718		<10	80
57719		10	171
57720		10	89
57721		<10	108
57722		<10	80
57723		10	35
57724		<10	27
57725		<10	23
57726		<10	22
57727		<10	31
57728		<10	28
57729		<10	36
57730		<10	43
57731		<10	34
57732		<10	67
57733		10	33
57734		<10	93
57735		10	182
57736		<10	21
57737		<10	55
57738		<10	323
57739		<10	8
57740		<10	70
57741		<10	56
57742		<10	9

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	WEI-21	PUL-QC	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n
	Analyte	Recvd Wt.	Pass75um	Al2O3	As	Ba	CaO	Cl	Co	Cr2O3	Cu	Fe	K2O	MgO	Mn	Na2O
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.01	0.001	0.005
57743		1.59		0.83	0.003	0.286	0.69	0.058	0.001	0.011	0.004	22.22	0.07	0.16	0.229	0.119
57744		1.60		0.46	0.001	0.284	0.45	0.027	0.001	<0.001	0.003	13.00	0.04	0.06	0.083	0.043
57745		1.41		1.26	0.003	0.548	0.91	0.060	0.003	0.003	0.005	39.87	0.08	0.22	0.176	0.072
57746		1.27		1.22	0.004	0.691	0.63	0.170	0.004	0.004	0.007	52.90	0.08	0.30	0.366	0.136
57747		1.37	99.0	2.79	0.004	0.120	0.82	0.052	0.003	0.052	0.005	51.65	0.19	0.41	0.548	0.132
57748		1.28		1.40	0.004	1.045	0.73	0.150	0.003	0.017	0.007	52.02	0.09	0.32	0.382	0.128
57749		1.31		1.62	0.004	0.855	1.06	0.085	0.002	0.003	0.006	48.90	0.11	0.29	0.238	0.099
57750		1.43		0.92	0.003	0.855	0.55	0.079	0.001	0.005	0.005	29.00	0.06	0.18	0.203	0.086
57751		1.14		0.66	0.002	0.342	0.52	0.017	0.001	0.043	0.004	15.17	0.05	0.05	0.098	0.030
57752		0.94		2.71	0.006	0.265	1.24	0.062	0.009	<0.001	0.006	50.64	0.15	0.52	0.679	0.042
57753		1.12		0.62	0.002	0.309	0.37	0.021	0.001	0.017	0.005	22.27	0.03	0.04	0.089	0.050
57754		1.34		2.09	0.004	0.581	0.46	0.043	0.003	0.006	0.006	45.14	0.17	0.24	0.184	0.137
57755		1.07		1.60	0.004	0.841	0.80	0.128	0.002	0.001	0.007	52.65	0.13	0.33	0.462	0.120
57756		1.19		1.30	0.004	0.532	1.42	0.132	0.002	<0.001	0.006	53.42	0.11	0.33	0.238	0.099
57757		0.98		4.18	0.003	0.236	0.57	0.052	0.002	0.005	0.005	39.19	0.27	0.34	0.215	0.062
57758		1.35		1.92	0.003	0.124	3.04	0.060	0.002	0.018	0.005	49.25	0.12	0.43	0.371	0.027
57759		1.10		3.18	0.003	0.118	0.89	0.057	0.002	<0.001	0.005	49.60	0.19	0.34	0.245	0.084
57760		0.96		1.52	0.004	0.771	1.48	0.098	0.002	<0.001	0.007	48.10	0.11	0.35	0.266	0.073
57761		1.05		2.01	0.003	0.959	1.48	0.198	0.003	<0.001	0.005	50.81	0.14	0.39	0.277	0.148
57762		1.02		1.98	0.003	0.663	1.24	0.114	0.004	<0.001	0.005	52.81	0.13	0.35	0.421	0.051
57763		1.06		2.91	0.003	0.440	0.50	0.106	0.003	<0.001	0.003	51.55	0.22	0.30	0.198	0.076
57764		1.01		2.09	0.003	0.889	0.86	0.072	0.003	0.004	0.005	44.42	0.15	0.26	0.243	0.048
57765		1.02		2.68	0.002	0.311	0.89	0.192	0.003	<0.001	0.003	50.29	0.18	0.26	0.319	0.108
57766		0.95		3.24	0.002	0.335	0.88	0.202	0.003	0.002	0.004	43.79	0.25	0.40	0.641	0.261
57767		1.30		2.24	0.003	0.805	0.90	0.542	0.004	<0.001	0.005	43.48	0.19	0.38	0.434	0.458
57768		1.15		1.31	0.003	0.751	0.68	0.139	0.003	<0.001	0.003	39.56	0.10	0.25	0.220	0.090
57769		1.42		1.82	0.002	0.096	0.69	0.102	0.003	<0.001	0.003	53.83	0.14	0.26	0.486	0.087
57770		1.29		2.65	0.002	0.080	0.88	0.101	0.003	<0.001	0.003	50.66	0.24	0.37	0.458	0.194
57771		1.23		2.24	0.003	0.692	0.36	0.085	0.003	<0.001	0.005	52.31	0.15	0.18	0.194	0.065
57772		1.24		2.84	0.003	0.621	0.54	0.138	0.003	<0.001	0.005	49.71	0.17	0.18	0.247	0.063
57773		0.98		1.29	0.003	1.125	0.71	0.076	0.003	<0.001	0.003	34.58	0.09	0.20	0.251	0.062
57774		1.40		2.38	0.003	0.256	1.38	0.197	0.003	<0.001	0.006	50.71	0.14	0.43	0.298	0.183
57775		1.39		1.36	0.003	0.364	1.28	0.102	0.004	<0.001	0.005	51.91	0.08	0.36	0.320	0.054
57776		1.43		2.22	0.003	0.554	0.68	0.182	0.005	<0.001	0.005	52.62	0.14	0.32	0.232	0.122
57777		1.22		1.17	0.003	0.272	0.58	0.037	0.003	<0.001	0.002	45.99	0.08	0.20	0.144	0.026
57778		1.48		2.66	0.002	0.168	0.50	0.156	0.003	<0.001	0.005	50.16	0.24	0.32	0.282	0.243
57779		1.04		1.96	0.004	0.630	0.68	0.127	0.004	<0.001	0.004	54.09	0.14	0.34	0.489	0.073
57780		1.03		1.20	0.003	0.922	0.59	0.147	0.004	<0.001	0.003	40.83	0.08	0.25	0.312	0.110
57781		1.59		2.52	0.005	1.070	1.16	0.403	0.003	<0.001	0.009	48.45	0.16	0.46	0.645	0.313
57782		1.19		1.72	0.003	1.080	0.79	0.102	0.002	<0.001	0.004	43.55	0.15	0.38	0.234	0.116

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Sample Description	Method	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-GRA05	Au-ICP21	ME-ICP61
	Analyte	Ni	P	Pb	S	SiO2	Sn	Sr	TiO2	V	Zn	Zr	Total	LOI	Au	Ag
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm
	LOR	0.001	0.001	0.001	0.001	0.05	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.5
57743		<0.001	0.122	0.001	0.254	60.6	<0.001	0.044	0.60	0.011	0.003	0.051	100.00	3.39	<0.001	<0.5
57744		<0.001	0.038	0.003	0.257	76.6	<0.001	0.044	0.28	0.004	0.003	0.017	100.00	2.23		<0.5
57745		0.003	0.061	0.001	0.527	30.4	<0.001	0.106	0.47	0.010	0.011	0.029	100.05	7.03		<0.5
57746		0.004	0.128	0.001	0.359	10.15	<0.001	0.255	0.11	0.010	0.013	0.010	99.98	8.72		0.6
57747		0.058	0.083	<0.001	0.249	11.60	<0.001	0.365	0.15	0.006	0.006	0.012	100.00	7.69		<0.5
57748		0.012	0.128	<0.001	0.446	9.88	<0.001	0.136	0.10	0.011	0.010	0.010	100.00	9.47		<0.5
57749		0.002	0.100	<0.001	0.615	14.30	<0.001	0.150	0.15	0.009	0.010	0.011	99.99	9.07		<0.5
57750		0.003	0.093	<0.001	0.346	48.0	<0.001	0.141	0.60	0.010	0.007	0.026	100.00	5.50		<0.5
57751		0.041	0.053	0.005	0.297	72.6	<0.001	0.037	0.77	0.010	0.004	0.045	100.05	2.04		<0.5
57752		0.009	0.091	<0.001	0.469	8.85	<0.001	0.082	0.14	0.041	0.070	0.004	100.00	10.97		<0.5
57753		0.003	0.070	0.002	0.220	62.9	<0.001	0.025	0.39	0.014	0.005	0.019	100.05	2.47		<0.5
57754		0.006	0.120	<0.001	0.221	21.6	<0.001	0.050	0.28	0.010	0.017	0.010	100.05	8.61		<0.5
57755		0.003	0.160	0.001	0.400	8.87	<0.001	0.142	0.11	0.015	0.008	0.008	99.99	9.43		<0.5
57756		0.001	0.087	<0.001	0.754	7.11	<0.001	0.142	0.08	0.008	0.009	0.007	100.00	9.82		<0.5
57757		0.002	0.086	<0.001	0.236	29.3	<0.001	0.115	0.48	0.009	0.008	0.028	99.97	7.11		<0.5
57758		0.014	0.124	<0.001	1.480	7.83	<0.001	0.084	0.10	0.012	0.006	0.005	100.00	11.24		0.7
57759		<0.001	0.172	<0.001	0.256	12.00	<0.001	0.032	0.18	0.005	0.006	0.006	99.99	10.58		<0.5
57760		0.002	0.114	<0.001	0.832	14.25	<0.001	0.220	0.27	0.011	0.008	0.014	100.05	9.20		<0.5
57761		0.007	0.111	0.010	0.886	8.15	<0.001	0.229	0.12	0.004	0.012	0.006	100.00	10.48		<0.5
57762		0.005	0.090	0.010	0.694	7.45	<0.001	0.122	0.11	0.004	0.009	0.003	100.00	9.62		0.6
57763		0.011	0.084	0.006	0.262	12.05	<0.001	0.068	0.16	0.003	0.009	0.002	99.99	8.23	<0.001	<0.5
57764		0.009	0.089	0.011	0.547	21.9	<0.001	0.127	0.31	0.006	0.007	0.014	99.98	7.65		<0.5
57765		0.004	0.076	0.008	0.425	13.25	<0.001	0.122	0.20	0.003	0.010	0.004	100.00	8.13		<0.5
57766		0.008	0.179	0.012	0.244	22.5	<0.001	0.134	0.33	0.003	0.008	0.012	100.05	6.88		<0.5
57767		0.007	0.200	0.012	0.414	21.5	<0.001	0.254	0.31	0.012	0.011	0.017	100.05	7.97		<0.5
57768		0.007	0.107	0.011	0.412	30.5	<0.001	0.131	0.41	0.004	0.010	0.015	99.97	7.29		<0.5
57769		0.007	0.292	0.007	0.116	9.78	<0.001	0.029	0.14	<0.001	0.007	<0.001	100.00	8.23		<0.5
57770		0.008	0.085	0.008	0.354	10.90	<0.001	0.071	0.15	<0.001	0.008	0.002	99.98	10.14		<0.5
57771		0.011	0.082	0.012	0.260	14.20	<0.001	0.089	0.16	0.004	0.007	0.004	100.00	5.73		<0.5
57772		0.003	0.088	0.014	0.323	16.10	<0.001	0.092	0.25	0.008	0.008	0.007	100.00	6.46		<0.5
57773		0.003	0.179	0.012	0.426	37.6	<0.001	0.267	0.46	0.009	0.010	0.024	100.05	6.62		<0.5
57774		0.005	0.078	<0.001	0.671	8.87	<0.001	0.172	0.12	0.006	0.007	0.007	100.00	11.00		<0.5
57775		0.004	0.105	0.009	0.546	8.93	<0.001	0.110	0.16	0.007	0.013	0.005	100.00	10.83		<0.5
57776		0.003	0.094	0.012	0.396	8.34	<0.001	0.186	0.12	0.006	0.017	0.005	100.00	10.20		<0.5
57777		0.009	0.097	0.005	0.231	21.5	<0.001	0.047	0.26	0.005	0.012	0.004	100.00	8.99		<0.5
57778		0.004	0.084	0.010	0.194	12.10	<0.001	0.057	0.15	0.008	0.008	0.004	100.00	10.56		<0.5
57779		0.004	0.100	0.008	0.340	8.10	<0.001	0.094	0.11	0.004	0.008	0.002	100.00	8.52		0.5
57780		0.008	0.102	0.011	0.423	28.9	<0.001	0.183	0.32	0.005	0.009	0.013	99.99	6.97		<0.5
57781		0.009	0.341	0.006	0.331	13.15	<0.001	0.104	0.16	0.030	0.010	0.011	100.00	8.48		0.6
57782		0.021	0.130	0.010	0.536	22.1	<0.001	0.213	0.35	0.006	0.008	0.015	99.99	8.49		<0.5

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%
	LOR	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01	10	0.01
57743		0.48	13	2940	0.5	<2	0.53	<0.5	11	93	5	22.2	<10	0.08	10	0.09
57744		0.27	<5	2940	<0.5	<2	0.37	<0.5	7	15	3	13.25	<10	0.04	<10	0.04
57745		0.76	13	2410	0.8	<2	0.76	<0.5	17	14	7	45.3	<10	0.09	<10	0.14
57746		0.69	5	5860	1.0	<2	0.48	<0.5	23	12	8	>50	<10	0.07	<10	0.17
57747		1.69	<5	1350	1.1	<2	0.67	1.3	17	14	11	>50	<10	0.17	<10	0.24
57748		0.83	7	6020	1.0	<2	0.58	<0.5	18	10	14	>50	<10	0.08	10	0.19
57749		0.89	5	1890	0.8	<2	0.78	<0.5	9	27	12	49.3	<10	0.09	<10	0.16
57750		0.45	8	4830	0.9	<2	0.38	<0.5	12	15	9	24.3	<10	0.05	10	0.10
57751		0.37	<5	3360	<0.5	3	0.40	<0.5	6	51	5	14.90	<10	0.05	10	0.04
57752		1.28	17	2220	3.1	<2	0.79	<0.5	59	6	13	44.8	<10	0.11	10	0.23
57753		0.36	7	3090	0.5	<2	0.30	<0.5	4	62	7	21.5	<10	0.03	10	0.03
57754		1.29	7	6270	1.7	<2	0.40	<0.5	28	11	14	>50	10	0.16	10	0.15
57755		1.01	11	5570	1.5	<2	0.67	<0.5	13	10	15	>50	<10	0.12	10	0.20
57756		0.77	5	1390	1.0	<2	1.11	<0.5	16	7	9	>50	<10	0.10	<10	0.19
57757		2.50	<5	2570	1.0	<2	0.48	<0.5	13	28	12	44.5	10	0.26	10	0.20
57758		1.14	<5	1320	0.9	4	2.33	<0.5	9	6	7	>50	<10	0.11	<10	0.25
57759		1.66	<5	1180	1.0	<2	0.65	<0.5	10	11	5	48.7	<10	0.17	10	0.18
57760		0.85	5	1170	0.9	<2	1.09	<0.5	11	10	10	49.0	<10	0.09	10	0.19
57761		1.20	9	3290	1.5	<2	1.20	<0.5	6	13	14	>50	<10	0.13	10	0.23
57762		1.18	<5	3620	1.0	<2	1.00	<0.5	11	10	7	>50	<10	0.12	<10	0.21
57763		1.68	<5	4540	1.5	<2	0.40	<0.5	7	12	8	>50	<10	0.19	10	0.18
57764		1.12	<5	2900	0.7	<2	0.63	<0.5	7	12	9	44.2	<10	0.12	10	0.14
57765		1.54	<5	3210	1.4	<2	0.70	<0.5	8	11	7	>50	<10	0.16	10	0.16
57766		1.88	<5	3470	1.0	<2	0.71	<0.5	7	18	4	48.4	<10	0.23	10	0.23
57767		1.31	13	5600	1.5	3	0.72	<0.5	13	14	16	47.2	10	0.17	20	0.22
57768		0.74	<5	3790	1.2	<2	0.53	<0.5	10	13	5	41.3	<10	0.08	10	0.15
57769		1.05	5	1100	2.5	<2	0.55	<0.5	6	6	4	>50	<10	0.12	10	0.15
57770		1.43	<5	880	0.9	2	0.65	<0.5	8	15	4	>50	<10	0.20	<10	0.20
57771		1.30	5	6910	0.9	<2	0.29	<0.5	2	12	6	>50	<10	0.13	<10	0.11
57772		1.53	7	5850	0.9	4	0.41	<0.5	6	15	7	49.7	<10	0.13	10	0.10
57773		0.81	8	4300	1.5	<2	0.61	0.6	15	15	10	38.8	<10	0.09	20	0.13
57774		1.36	<5	2560	1.0	<2	1.13	<0.5	14	11	5	>50	<10	0.15	<10	0.23
57775		0.81	<5	3830	0.8	<2	1.04	<0.5	17	7	13	>50	<10	0.08	<10	0.21
57776		1.34	<5	5840	1.0	2	0.57	<0.5	19	10	14	>50	10	0.12	<10	0.20
57777		0.66	<5	2700	0.8	<2	0.44	<0.5	18	42	10	48.9	<10	0.07	<10	0.12
57778		1.60	<5	1880	1.4	<2	0.41	<0.5	4	11	17	>50	<10	0.21	10	0.19
57779		1.08	<5	6070	0.9	<2	0.51	<0.5	8	9	7	>50	10	0.12	<10	0.19
57780		0.66	5	5820	1.0	<2	0.45	<0.5	10	11	5	40.8	10	0.07	10	0.14
57781		1.40	18	>10000	1.6	<2	0.95	<0.5	20	13	25	>50	<10	0.16	30	0.25
57782		1.01	9	3840	0.9	<2	0.64	0.5	5	16	10	46.6	10	0.13	10	0.23

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10	1
57743		2190	4	0.58	10	1140	15	0.27	<5	2	476	<20	0.34	<10	<10	112
57744		816	1	0.52	7	360	8	0.27	<5	2	478	<20	0.15	<10	<10	38
57745		1750	3	0.47	22	600	11	0.51	<5	3	1170	<20	0.24	<10	<10	99
57746		3230	2	1.09	28	1140	16	0.35	<5	3	2520	<20	0.07	<10	<10	96
57747		5110	7	0.34	15	780	10	0.28	<5	4	3710	<20	0.10	<10	10	59
57748		3490	2	1.12	23	1210	15	0.38	<5	3	1410	<20	0.06	<10	<10	106
57749		2000	1	0.40	14	840	18	0.46	<5	3	1420	<20	0.08	<10	<10	79
57750		1650	3	0.84	16	740	16	0.25	<5	2	1240	<20	0.28	<10	<10	87
57751		943	1	0.57	8	470	10	0.30	<5	2	411	<20	0.41	<10	<10	78
57752		5040	6	0.41	74	680	7	0.40	<5	6	722	<20	0.07	<10	<10	322
57753		825	1	0.55	5	640	10	0.23	<5	2	285	<20	0.21	<10	<10	126
57754		1840	2	1.15	47	1180	10	0.25	<5	4	588	<20	0.17	<10	<10	95
57755		4440	5	1.05	26	1600	14	0.38	<5	3	1550	<20	0.07	<10	<10	159
57756		2140	1	0.31	17	810	8	0.68	<5	2	1450	<20	0.05	<10	<10	83
57757		2140	2	0.49	19	830	13	0.27	<5	6	1260	<20	0.28	<10	<10	85
57758		3360	4	0.25	11	1170	<2	1.55	<5	3	926	<20	0.07	<10	<10	113
57759		2090	1	0.25	15	1460	6	0.25	<5	3	351	<20	0.10	<10	<10	43
57760		2220	3	0.25	19	1000	7	0.67	<5	3	2020	<20	0.14	<10	<10	94
57761		2430	2	0.70	20	1030	3	0.77	<5	4	2230	<20	0.07	<10	<10	76
57762		3770	2	0.69	17	850	4	0.65	<5	3	1200	<20	0.07	<10	<10	75
57763		1850	1	0.81	15	780	5	0.27	<5	4	689	<20	0.09	<10	<10	62
57764		2070	1	0.53	9	750	7	0.38	<5	3	1120	<20	0.14	<10	<10	78
57765		2780	5	0.65	15	700	6	0.42	<5	4	1190	<20	0.11	<10	<10	67
57766		5870	3	0.80	6	1700	9	0.25	<5	4	1320	<20	0.19	<10	<10	59
57767		3910	2	1.30	26	1850	29	0.36	<5	4	2450	<20	0.15	<10	<10	143
57768		1980	2	0.71	19	960	22	0.32	<5	3	1210	<20	0.20	<10	<10	64
57769		4360	2	0.25	4	2670	4	0.11	<5	3	312	<20	0.08	<10	<10	41
57770		3790	3	0.28	14	740	6	0.33	<5	3	657	<20	0.08	<10	<10	32
57771		1790	3	1.21	6	750	21	0.26	<5	3	859	<20	0.09	<10	<10	74
57772		2140	1	1.00	19	760	24	0.30	<5	3	817	<20	0.13	<10	<10	97
57773		2580	3	0.80	21	1790	30	0.27	<5	3	2680	<20	0.25	<10	<10	132
57774		2630	1	0.59	20	740	11	0.68	<5	3	1830	<20	0.07	<10	<10	60
57775		2840	8	0.72	23	1000	11	0.55	<5	2	1100	<20	0.09	<10	<10	106
57776		2230	2	1.06	19	920	17	0.41	<5	3	1850	<20	0.07	<10	<10	93
57777		3980	20	0.49	50	860	6	0.22	<5	2	460	<20	0.14	<10	<10	87
57778		2590	7	0.50	11	800	5	0.20	<5	5	575	<20	0.09	<10	<10	110
57779		4170	3	1.02	17	890	11	0.32	<5	3	868	<20	0.06	<10	<10	69
57780		2780	2	1.01	17	900	23	0.33	<5	2	1640	<20	0.15	<10	<10	79
57781		5800	3	1.96	33	3180	35	0.32	<5	4	1080	<20	0.10	<10	<10	283
57782		2230	1	0.74	11	1250	17	0.37	<5	3	2010	<20	0.18	<10	<10	100

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61
	Analyte	W	Zn
	Units	ppm	ppm
	LOR	10	2
57743		<10	15
57744		<10	15
57745		<10	88
57746		<10	102
57747		<10	42
57748		<10	71
57749		<10	59
57750		<10	40
57751		<10	22
57752		<10	574
57753		<10	30
57754		<10	152
57755		<10	51
57756		<10	67
57757		<10	58
57758		<10	36
57759		<10	40
57760		<10	50
57761		<10	77
57762		<10	47
57763		<10	54
57764		<10	26
57765		<10	61
57766		<10	40
57767		<10	70
57768		<10	61
57769		<10	32
57770		<10	39
57771		<10	22
57772		<10	35
57773		<10	74
57774		<10	49
57775		<10	93
57776		<10	118
57777		<10	93
57778		<10	40
57779		<10	38
57780		<10	47
57781		<10	68
57782		<10	37

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	WEI-21	PUL-QC	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n
	Analyte	Recvd Wt.	Pass75um	Al2O3	As	Ba	CaO	Cl	Co	Cr2O3	Cu	Fe	K2O	MgO	Mn	Na2O
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.01	0.001	0.005
57783		1.06		2.76	0.003	0.771	0.67	0.124	0.002	<0.001	0.004	49.56	0.24	0.59	0.464	0.182
57784		1.22		2.18	0.005	1.250	1.24	0.154	0.004	<0.001	0.006	50.71	0.17	0.49	0.609	0.140
57785		1.03		2.18	0.005	0.841	1.22	0.146	0.004	0.008	0.006	50.48	0.16	0.54	0.666	0.146
57786		1.21		2.05	0.005	1.170	1.12	0.089	0.005	<0.001	0.006	48.61	0.16	0.55	0.613	0.142
57787		1.21	92.0	1.76	0.003	0.327	0.69	0.122	0.003	<0.001	0.004	53.54	0.12	0.39	0.287	0.090
57788		1.07		1.86	0.003	0.184	0.58	0.059	0.005	0.082	0.006	53.79	0.13	0.59	1.455	0.054
57789		1.42		1.92	0.003	0.198	0.70	0.157	0.003	<0.001	0.004	51.63	0.14	0.60	1.155	0.118
57790		1.29		1.96	0.003	0.491	0.97	0.122	0.003	<0.001	0.006	53.11	0.15	0.38	0.463	0.117
57791		1.46		2.05	0.004	0.993	0.89	0.093	0.004	<0.001	0.006	51.39	0.17	0.29	0.291	0.150
57792		1.34		1.60	0.004	0.778	0.67	0.044	0.006	<0.001	0.004	36.44	0.13	0.26	0.470	0.084
57793		1.29		1.18	0.002	0.166	0.48	0.026	0.002	<0.001	<0.001	18.73	0.06	0.11	0.083	0.071
57794		1.16		0.82	0.003	0.833	1.00	0.014	0.003	<0.001	0.002	18.64	0.07	0.12	0.257	0.032
57795		1.10		0.67	0.001	0.167	0.59	0.016	0.001	0.004	<0.001	14.54	0.09	0.03	0.029	0.029
57796		1.50		1.08	0.002	0.434	0.42	0.022	0.003	<0.001	0.002	19.36	0.08	0.12	0.201	0.049
57797		1.41		1.62	0.002	0.206	0.77	0.057	0.003	0.020	<0.001	18.19	0.13	0.13	0.123	0.267
57798		1.46		0.32	0.001	0.156	0.74	0.014	0.001	0.007	<0.001	10.38	0.03	0.03	0.077	0.024
57799		1.77		1.06	0.003	0.883	0.64	0.106	0.004	<0.001	0.003	33.52	0.09	0.17	0.194	0.122
57800		1.95		1.46	0.002	0.814	0.54	0.176	0.004	<0.001	0.004	46.43	0.11	0.23	0.227	0.184
57801		1.01		0.81	0.005	0.070	0.65	0.190	0.001	<0.001	<0.001	18.24	0.10	0.10	1.120	0.206
57802		0.92		0.36	<0.001	0.254	0.50	0.003	0.002	0.002	<0.001	5.22	0.03	0.03	0.061	0.021
57803		0.91		1.26	0.002	0.421	0.54	0.108	0.004	<0.001	<0.001	20.17	0.11	0.13	0.126	0.190
57804		0.77		1.62	0.002	0.117	0.58	0.353	0.003	<0.001	0.002	46.28	0.09	0.26	0.482	0.356
57805		1.04		3.12	0.002	0.399	0.52	0.113	0.004	<0.001	0.004	47.21	0.21	0.56	0.525	0.444
57806		1.11		0.56	<0.001	0.281	0.53	0.013	0.002	<0.001	<0.001	14.04	0.02	0.05	0.107	0.064
57807		1.08		1.74	0.002	0.158	0.88	0.150	0.005	<0.001	0.003	48.33	0.07	0.47	0.259	0.120
57808		1.17		2.22	0.003	0.724	0.65	0.136	0.004	<0.001	0.003	48.79	0.15	0.31	0.282	0.245
57809		1.00		1.16	0.003	0.661	0.70	0.061	0.003	0.002	0.005	32.06	0.07	0.21	0.230	<0.005
57851		1.49		0.17	<0.001	0.152	0.58	<0.001	0.001	<0.001	<0.001	2.71	<0.01	<0.01	0.032	0.028
57852		1.95		0.30	<0.001	0.138	0.64	0.003	0.001	<0.001	<0.001	10.44	<0.01	0.02	0.029	0.055
57853		2.03		0.94	0.001	0.232	0.56	0.011	0.001	<0.001	<0.001	12.94	0.13	0.02	0.034	0.071
57854		1.73		0.96	0.001	0.280	0.74	0.027	0.001	<0.001	<0.001	13.10	0.19	0.02	0.052	0.086
57855		1.45		2.59	0.002	0.166	0.72	0.126	0.004	<0.001	0.005	36.45	0.18	0.16	0.423	0.178
57856		1.42		3.00	0.005	0.793	1.25	0.031	0.004	<0.001	0.006	49.36	0.21	0.41	0.769	0.137
57857		2.11		2.17	0.004	1.045	0.97	0.059	0.004	<0.001	0.005	48.99	0.19	0.46	0.408	0.179
57858		2.15		2.38	0.004	1.305	0.88	0.032	0.004	<0.001	0.006	50.74	0.18	0.40	0.586	0.184
57859		1.97		1.98	0.004	0.907	0.63	0.063	0.004	0.031	0.002	51.04	0.12	0.25	0.237	0.090
57860		1.88		2.21	0.004	1.125	0.95	0.115	0.005	<0.001	0.007	51.55	0.15	0.40	0.582	0.148
57861		1.93		1.61	0.003	0.957	1.32	0.149	0.003	<0.001	0.006	51.46	0.13	0.40	0.418	0.166
57862		1.90		1.70	0.004	1.245	1.05	0.077	0.003	<0.001	0.004	52.08	0.11	0.38	0.346	0.107
57863		1.47		2.24	0.004	0.437	1.46	0.096	0.003	<0.001	0.002	47.62	0.17	0.48	1.430	0.117

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-GRA05	Au-ICP21	ME-ICP61
	Analyte	Ni	P	Pb	S	SiO2	Sn	Sr	TiO2	V	Zn	Zr	Total	LOI	Au	Ag
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm
	LOR	0.001	0.001	0.001	0.001	0.05	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.5
57783		0.005	0.097	0.007	0.412	11.55	<0.001	0.142	0.17	0.006	0.009	0.004	100.05	9.90	<0.001	<0.5
57784		0.008	0.339	0.010	0.436	9.19	<0.001	0.155	0.13	0.018	0.011	0.004	99.99	9.42		<0.5
57785		0.031	0.372	0.011	0.286	10.20	<0.001	0.077	0.14	0.024	0.011	0.004	100.00	9.45		<0.5
57786		0.006	0.312	0.011	0.406	12.00	<0.001	0.112	0.20	0.017	0.010	0.008	99.99	10.05		<0.5
57787		0.003	0.091	0.008	0.374	9.04	<0.001	0.053	0.11	0.005	0.006	<0.001	100.00	9.12		<0.5
57788		0.046	0.186	0.011	0.140	7.71	<0.001	0.039	0.10	0.011	0.014	0.001	100.00	8.74		<0.5
57789		0.004	0.123	0.009	0.290	8.61	<0.001	0.035	0.11	0.004	0.008	<0.001	100.00	10.93		<0.5
57790		0.004	0.169	0.012	0.393	8.17	<0.001	0.119	0.11	0.007	0.011	0.004	100.00	9.33		<0.5
57791		0.004	0.120	0.012	0.619	9.18	<0.001	0.194	0.11	0.021	0.011	0.005	100.00	9.94		<0.5
57792		0.007	0.148	0.009	0.328	35.1	<0.001	0.081	0.47	0.037	0.034	0.018	99.99	6.58		<0.5
57793		<0.001	0.166	0.009	0.221	65.7	<0.001	0.023	0.23	0.001	0.005	0.005	100.05	4.10		<0.5
57794		0.002	0.165	0.009	0.452	64.1	<0.001	0.078	0.83	0.017	0.008	0.033	99.99	3.35		<0.5
57795		0.001	0.104	0.010	0.402	73.3	<0.001	0.033	0.76	0.011	0.003	0.032	99.97	2.10		<0.5
57796		0.004	0.106	0.011	0.178	65.0	<0.001	0.034	0.76	0.017	0.010	0.036	99.97	3.14		<0.5
57797		0.025	0.192	0.009	0.298	65.3	<0.001	0.067	0.40	0.003	0.005	0.021	99.99	3.54		<0.5
57798		0.017	0.109	0.009	0.343	80.5	<0.001	0.041	0.58	0.007	0.003	0.033	100.00	1.38		<0.5
57799		0.004	0.116	0.010	0.434	40.5	<0.001	0.192	0.50	0.010	0.012	0.034	100.05	5.98		<0.5
57800		0.008	0.114	0.011	0.345	19.65	<0.001	0.144	0.26	0.003	0.009	0.015	100.00	8.43		<0.5
57801		0.002	0.238	0.007	0.124	63.7	<0.001	0.258	0.79	0.068	0.024	0.043	99.95	4.32		1.0
57802		0.012	0.032	0.010	0.248	88.1	0.001	0.073	1.32	0.005	0.004	0.057	100.05	0.95		<0.5
57803		0.005	0.064	0.008	0.262	62.7	<0.001	0.071	0.83	0.005	0.010	0.047	100.05	3.69	<0.001	<0.5
57804		0.002	0.063	0.005	0.149	23.7	<0.001	0.038	0.30	<0.001	0.006	0.019	100.00	5.18		<0.5
57805		0.005	0.089	0.008	0.225	15.55	<0.001	0.162	0.20	0.004	0.008	0.015	100.00	9.61		<0.5
57806		0.004	0.080	0.008	0.262	74.6	<0.001	0.032	0.23	0.003	0.003	0.017	99.97	2.44		<0.5
57807		0.013	0.075	0.007	0.364	15.35	<0.001	0.070	0.18	0.003	0.014	0.017	100.00	10.19		<0.5
57808		0.008	0.090	0.008	0.456	14.20	<0.001	0.185	0.20	0.005	0.012	0.015	100.00	9.31		0.5
57809		0.006	0.099	0.003	0.343	42.1	<0.001	0.092	0.60	0.010	0.006	0.045	99.98	6.89		<0.5
57851		0.002	0.028	0.006	0.269	92.7	0.002	0.021	1.20	0.002	<0.001	0.065	100.00	0.36		<0.5
57852		0.002	0.174	0.008	0.293	80.2	0.002	0.030	0.75	0.007	0.002	0.040	99.98	1.64		<0.5
57853		0.005	0.136	0.012	0.518	74.5	<0.001	0.057	0.71	0.018	0.002	0.058	100.00	2.46		<0.5
57854		0.003	0.118	0.009	0.718	73.6	<0.001	0.040	0.47	0.011	0.002	0.029	99.98	2.60		<0.5
57855		0.007	0.136	0.012	0.311	36.1	<0.001	0.047	0.30	0.015	0.010	0.020	99.99	5.50		<0.5
57856		0.006	0.345	0.009	0.248	12.25	<0.001	0.069	0.18	0.038	0.010	0.012	99.98	8.37		<0.5
57857		0.008	0.185	0.006	0.502	11.85	<0.001	0.116	0.13	0.012	0.009	0.013	100.05	10.35		0.5
57858		0.020	0.235	0.007	0.403	9.96	<0.001	0.116	0.13	0.021	0.009	0.012	100.00	9.25		0.9
57859		0.118	0.208	<0.001	0.371	10.50	<0.001	0.085	0.14	0.006	0.068	0.009	100.00	10.12		<0.5
57860		0.009	0.233	0.014	0.393	9.50	<0.001	0.112	0.12	0.021	0.010	0.013	100.00	8.89		0.7
57861		0.012	0.219	0.010	0.627	8.21	<0.001	0.140	0.09	0.006	0.006	0.012	100.00	10.41		0.8
57862		0.010	0.212	0.004	0.607	7.90	<0.001	0.151	0.09	0.008	0.007	0.011	99.99	10.01		<0.5
57863		0.024	0.269	<0.001	0.164	15.45	<0.001	0.069	0.19	0.007	0.006	0.014	99.99	8.05		<0.5

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%
	LOR	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01	10	0.01
57783		1.36	5	6620	0.8	<2	0.46	<0.5	4	12	11	45.5	<10	0.17	10	0.28
57784		1.28	18	>10000	1.3	<2	0.99	0.5	20	14	22	>50	<10	0.15	20	0.28
57785		1.16	22	7840	1.3	<2	0.90	<0.5	17	13	23	>50	<10	0.13	20	0.28
57786		1.17	21	>10000	1.2	<2	0.90	<0.5	18	17	21	>50	<10	0.14	20	0.31
57787		1.02	<5	3360	0.7	<2	0.55	<0.5	6	13	6	>50	<10	0.11	<10	0.22
57788		1.10	9	2020	1.7	<2	0.47	<0.5	15	9	20	>50	<10	0.12	10	0.34
57789		1.08	6	2030	0.8	<2	0.53	<0.5	3	8	9	>50	<10	0.12	<10	0.33
57790		1.11	8	4760	1.2	<2	0.75	<0.5	10	11	12	>50	10	0.13	10	0.21
57791		1.10	16	7160	1.3	<2	0.66	<0.5	12	11	11	>50	<10	0.14	10	0.16
57792		0.85	27	6700	3.7	<2	0.50	0.8	34	14	15	35.6	10	0.11	10	0.14
57793		0.64	11	1710	<0.5	<2	0.39	<0.5	4	30	3	18.05	<10	0.06	<10	0.07
57794		0.45	16	2790	0.8	<2	0.78	<0.5	15	31	14	18.00	<10	0.06	20	0.08
57795		0.34	<5	1580	<0.5	<2	0.41	<0.5	1	70	4	13.10	10	0.07	10	0.02
57796		0.64	17	4570	0.9	<2	0.36	<0.5	17	54	18	20.1	<10	0.08	20	0.08
57797		0.93	14	2230	0.6	<2	0.62	<0.5	12	124	6	18.70	10	0.12	10	0.08
57798		0.20	16	1770	<0.5	<2	0.64	<0.5	2	84	5	11.15	10	0.03	10	0.04
57799		0.64	16	3210	0.8	<2	0.53	<0.5	21	22	12	36.1	<10	0.08	10	0.11
57800		0.86	<5	1820	1.0	3	0.41	<0.5	19	10	14	47.1	<10	0.10	10	0.14
57801		0.41	36	760	<0.5	<2	0.48	<0.5	3	30	9	17.15	<10	0.09	<10	0.06
57802		0.20	5	2420	<0.5	<2	0.38	<0.5	4	30	9	5.28	<10	0.03	<10	0.03
57803		0.69	5	3220	0.7	<2	0.40	<0.5	20	18	9	19.40	<10	0.09	10	0.08
57804		0.93	<5	1200	0.7	<2	0.43	<0.5	10	19	5	44.6	<10	0.10	<10	0.16
57805		1.75	<5	3850	1.2	3	0.39	<0.5	17	14	5	45.9	10	0.19	<10	0.33
57806		0.32	<5	2730	<0.5	<2	0.40	<0.5	7	41	8	13.50	<10	0.04	10	0.05
57807		1.02	<5	1550	1.1	2	0.65	<0.5	28	7	13	47.2	10	0.08	<10	0.28
57808		1.19	<5	6910	1.0	<2	0.44	<0.5	22	9	6	42.9	<10	0.13	<10	0.19
57809		0.68	10	4940	0.5	<2	0.54	<0.5	18	13	11	29.9	<10	0.08	10	0.15
57851		0.10	6	1500	<0.5	<2	0.43	<0.5	<1	35	7	2.74	<10	0.02	10	0.01
57852		0.17	<5	1310	<0.5	<2	0.47	<0.5	1	30	3	9.73	<10	0.02	10	0.03
57853		0.52	10	1980	<0.5	<2	0.43	<0.5	1	88	6	12.40	<10	0.12	10	0.02
57854		0.54	8	320	<0.5	<2	0.57	<0.5	3	94	6	12.70	<10	0.17	10	0.02
57855		1.50	11	1670	1.1	2	0.56	<0.5	19	47	20	36.6	<10	0.17	10	0.10
57856		1.69	22	7520	1.5	3	0.92	<0.5	20	11	34	48.2	<10	0.19	30	0.25
57857		1.29	8	5570	1.1	7	0.76	<0.5	24	19	17	>50	10	0.18	10	0.29
57858		1.38	11	9850	1.4	<2	0.66	<0.5	19	13	21	>50	<10	0.17	20	0.24
57859		1.14	7	6940	15.0	<2	0.48	<0.5	24	9	9	>50	10	0.13	10	0.16
57860		1.28	15	3210	1.3	<2	0.71	<0.5	16	10	21	>50	10	0.14	10	0.24
57861		0.97	9	1860	1.2	3	1.01	<0.5	10	11	18	>50	10	0.13	10	0.25
57862		1.06	10	1020	1.2	<2	0.84	<0.5	12	12	21	>50	<10	0.12	10	0.25
57863		1.30	<5	4260	1.5	2	1.07	<0.5	14	10	18	47.1	<10	0.16	20	0.30

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10	1
57783		3540	1	1.21	9	780	11	0.38	<5	3	1170	<20	0.08	<10	<10	73
57784		5440	3	2.14	35	3160	32	0.43	<5	4	1500	<20	0.08	<10	<10	204
57785		5490	5	1.42	35	3170	24	0.26	<5	3	690	<20	0.08	<10	<10	235
57786		5530	4	2.09	44	2930	17	0.41	<5	3	1090	<20	0.11	<10	<10	200
57787		2510	2	0.66	13	840	9	0.37	<5	2	533	<20	0.07	<10	<10	81
57788		12000	10	0.40	30	1740	10	0.14	<5	7	401	<20	0.06	<10	<10	140
57789		9510	6	0.44	13	1080	7	0.27	<5	3	345	<20	0.06	<10	<10	69
57790		4030	6	0.88	21	1520	17	0.38	<5	3	1100	<20	0.06	<10	<10	89
57791		2400	2	1.31	25	1030	21	0.53	<5	3	1700	<20	0.06	<10	<10	209
57792		4010	6	1.16	60	1280	15	0.29	<5	3	727	<20	0.23	<10	<10	354
57793		738	3	0.33	7	1460	5	0.21	<5	1	211	<20	0.12	<10	<10	37
57794		2330	3	0.49	30	1450	26	0.30	<5	3	687	<20	0.39	<10	<10	193
57795		249	2	0.27	1	840	13	0.34	<5	2	287	<20	0.34	<10	10	123
57796		1960	2	0.81	27	1000	23	0.18	<5	3	338	<20	0.40	<10	<10	204
57797		1240	2	0.57	14	1800	11	0.29	<5	3	645	<20	0.20	<10	<10	61
57798		776	3	0.31	10	1080	17	0.35	<5	2	447	<20	0.31	<10	<10	107
57799		1870	3	0.65	25	1110	22	0.31	<5	3	1830	<20	0.22	<10	<10	135
57800		2090	3	0.17	28	1130	16	0.22	<5	3	1340	<20	0.13	<10	10	66
57801		10200	12	0.17	14	2320	15	0.12	<5	2	2300	<20	0.33	<10	10	650
57802		572	2	0.03	12	320	13	0.25	<5	3	685	<20	0.66	<10	<10	67
57803		1150	3	0.16	24	650	17	0.25	<5	3	652	<20	0.39	<10	<10	78
57804		4300	4	0.26	12	630	9	0.15	<5	2	393	<20	0.17	<10	10	41
57805		4680	2	0.34	24	890	9	0.24	<5	3	1600	<20	0.12	<10	<10	76
57806		1030	2	0.04	13	790	14	0.27	<5	1	326	<20	0.13	<10	<10	70
57807		2400	2	0.09	31	740	12	0.39	<5	3	727	<20	0.10	<10	<10	67
57808		2640	4	0.17	22	810	12	0.41	11	3	1780	<20	0.10	<10	10	83
57809		2380	3	0.11	17	980	14	0.32	<5	3	1010	<20	0.32	<10	10	132
57851		299	2	0.02	11	250	7	0.25	<5	2	189	<20	0.61	<10	10	43
57852		284	1	0.03	2	1670	11	0.29	<5	2	264	<20	0.37	<10	<10	90
57853		326	1	0.05	2	1350	59	0.51	<5	3	531	<20	0.35	<10	<10	202
57854		539	1	0.06	4	1180	23	0.67	<5	2	354	<20	0.25	<10	<10	133
57855		3960	3	0.13	31	1420	18	0.33	<5	3	490	<20	0.17	<10	<10	169
57856		6830	6	0.10	35	3530	37	0.26	<5	4	717	<20	0.11	<10	<10	373
57857		3810	11	0.13	35	2010	18	0.44	<5	3	1230	<20	0.08	<10	<10	152
57858		5280	8	0.13	25	2460	17	0.38	<5	3	1190	<20	0.08	<10	10	231
57859		2280	6	0.07	101	2170	23	0.35	<5	5	937	<20	0.09	<10	10	112
57860		5380	6	0.11	30	2460	22	0.22	<5	3	1150	<20	0.08	<10	10	219
57861		3790	5	0.13	18	2340	16	0.50	<5	2	1420	<20	0.06	<10	10	98
57862		3320	4	0.07	24	2330	21	0.37	<5	3	1600	<20	0.06	<10	10	123
57863		13550	7	0.09	14	2790	19	0.17	<5	4	743	<20	0.11	<10	<10	108

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61
	Analyte	W	Zn
	Units	ppm	ppm
	LOR	10	2
57783		<10	44
57784		20	63
57785		10	61
57786		<10	55
57787		<10	25
57788		<10	98
57789		<10	39
57790		<10	64
57791		<10	63
57792		<10	302
57793		<10	28
57794		<10	59
57795		<10	10
57796		<10	80
57797		<10	28
57798		<10	11
57799		<10	92
57800		<10	53
57801		<10	225
57802		<10	23
57803		<10	83
57804		<10	37
57805		<10	51
57806		<10	25
57807		<10	114
57808		<10	83
57809		<10	35
57851		<10	3
57852		<10	7
57853		<10	15
57854		<10	18
57855		<10	68
57856		<10	69
57857		<10	58
57858		<10	51
57859		20	708
57860		10	60
57861		<10	35
57862		10	52
57863		<10	47

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	WEI-21	PUL-QC	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n
	Analyte	Recvd Wt.	Pass75um	Al2O3	As	Ba	CaO	Cl	Co	Cr2O3	Cu	Fe	K2O	MgO	Mn	Na2O
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.01	0.01	0.01	0.001	0.005
57864		1.56		2.20	0.006	0.758	1.34	0.042	0.005	<0.001	0.006	50.30	0.16	0.46	0.938	0.111
57865		1.39		1.66	0.005	1.040	1.16	0.146	0.005	0.071	0.005	48.51	0.12	0.35	0.401	0.130
57866		1.55		1.66	0.003	1.050	0.52	0.172	0.003	<0.001	0.004	49.49	0.10	0.25	0.335	0.147
57867		1.67		1.85	0.004	0.977	0.86	0.390	0.004	<0.001	0.006	52.94	0.11	0.35	0.468	0.287
57868		1.87	88.0	1.82	0.004	0.574	0.83	0.080	0.004	<0.001	0.004	51.87	0.11	0.54	0.425	0.070
57869		1.72		1.10	0.004	0.431	1.31	0.170	0.006	<0.001	0.003	51.97	0.05	0.41	0.207	0.100
57870		1.44		1.30	0.004	1.125	0.73	0.137	0.004	<0.001	0.005	52.16	0.08	0.31	0.360	0.126
57871		1.42		1.65	0.004	1.300	0.74	0.106	0.005	0.025	0.003	49.04	0.11	0.27	0.389	0.117
57872		1.97		2.11	0.005	0.855	0.93	0.096	0.005	<0.001	0.007	51.91	0.16	0.42	0.866	0.194
57873		1.78		1.56	0.004	0.812	0.81	0.100	0.003	0.076	0.006	53.01	0.10	0.33	0.408	0.112
57874		1.55		3.26	0.004	0.685	0.74	0.131	0.003	0.025	0.005	46.03	0.25	0.32	0.337	0.436
57875		1.55		1.58	0.004	0.615	1.14	0.102	0.005	0.013	0.006	52.87	0.11	0.31	0.354	0.124
57876		1.74		1.44	0.003	0.717	0.75	0.366	0.004	0.007	0.006	54.23	0.08	0.27	0.528	0.263
57877		1.79		1.35	0.004	1.350	0.66	0.116	0.004	0.036	0.004	36.64	0.08	0.21	0.203	0.111
57878		1.80		1.31	0.003	0.434	0.47	0.057	0.004	0.076	0.004	44.04	0.07	0.19	0.178	0.092
57879		1.98		2.77	0.005	0.241	0.61	0.091	0.004	0.002	0.004	51.89	0.18	0.27	0.189	0.146
57880		1.68		1.64	0.004	0.300	1.26	0.472	0.003	<0.001	0.005	49.67	0.10	0.60	0.495	0.439
57881		1.84		2.96	0.004	0.272	0.97	0.153	0.003	<0.001	0.002	45.71	0.25	0.51	0.272	0.459
57882		1.30		0.96	0.005	0.308	1.60	0.350	0.012	<0.001	0.006	46.14	0.05	0.52	0.289	0.320
57883		1.90		2.61	0.003	0.568	0.99	0.228	0.004	<0.001	0.004	47.06	0.19	0.54	0.251	0.463
57884		1.70		1.42	0.003	0.819	0.65	0.085	0.003	0.003	0.003	33.03	0.11	0.21	0.175	0.140
57885		2.22		1.78	0.004	1.275	0.53	0.101	0.005	<0.001	0.006	52.00	0.12	0.28	0.267	0.144
57886		1.43		1.50	0.004	1.610	0.77	0.123	0.003	<0.001	0.006	47.15	0.09	0.27	0.280	0.137
57887		1.86		2.57	0.003	0.386	0.56	0.076	0.004	<0.001	0.005	51.78	0.18	0.41	0.665	0.207
57888		1.75		2.03	0.004	0.539	1.09	0.142	0.005	<0.001	0.008	51.95	0.16	0.32	0.315	0.158
57889		1.83		2.39	0.004	0.548	0.89	0.201	0.004	<0.001	0.008	52.32	0.17	0.30	0.346	0.193
57890		2.03		1.84	0.004	0.921	0.56	0.120	0.004	<0.001	0.009	49.19	0.12	0.26	0.350	0.142
57891		2.08		1.76	0.004	1.305	0.66	0.137	0.004	<0.001	0.009	51.33	0.14	0.38	0.411	0.181
57892		1.30		0.95	0.003	0.725	0.52	0.074	0.002	<0.001	0.006	25.57	0.07	0.15	0.235	0.102
57893		1.72		1.36	0.003	0.252	0.64	0.234	0.004	<0.001	0.007	32.37	0.09	0.21	0.534	0.258
57894		1.67		1.47	0.003	0.939	0.39	0.053	0.003	<0.001	0.008	45.60	0.10	0.19	0.319	0.081
57895		1.41		1.04	0.002	0.224	0.46	0.025	0.002	<0.001	0.006	18.07	0.09	0.11	0.122	0.057
57896		1.36		2.85	0.002	0.404	0.77	0.130	0.003	<0.001	0.007	39.16	0.24	0.35	0.152	0.454
PF67		2.17		7.09	0.003	0.028	4.27	0.012	0.008	<0.001	0.020	30.78	0.49	0.21	0.193	0.201
PF68		1.08		1.26	0.003	0.025	0.23	0.018	0.006	<0.001	0.012	54.59	0.09	0.14	0.352	0.072
PF69		2.42		1.38	0.006	0.123	1.27	0.248	0.004	<0.001	0.006	53.99	0.07	0.52	0.560	0.253
PF70		2.68		1.10	0.007	0.352	2.08	0.089	0.003	<0.001	0.011	37.49	0.06	0.34	0.289	0.098
PF71		3.09		6.03	0.003	0.239	1.48	1.150	0.004	<0.001	0.010	13.74	0.73	0.93	0.339	1.920

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-GRA05	Au-ICP21	ME-ICP61
	Analyte	Ni	P	Pb	S	SiO2	Sn	Sr	TiO2	V	Zn	Zr	Total	LOI	Au	Ag
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm
	LOR	0.001	0.001	0.001	0.001	0.05	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01	0.001	0.5
57864		0.017	0.363	0.012	0.288	11.10	<0.001	0.097	0.14	0.036	0.011	0.013	99.98	8.55	<0.001	<0.5
57865		0.058	0.172	0.011	0.675	13.20	<0.001	0.367	0.18	0.008	0.008	0.022	100.00	9.23		1.0
57866		0.008	0.140	0.009	0.379	15.50	<0.001	0.129	0.20	0.006	0.007	0.015	100.00	7.57		0.9
57867		0.020	0.200	0.012	0.350	8.33	<0.001	0.098	0.11	0.016	0.009	0.011	99.99	8.73		<0.5
57868		0.006	0.147	0.007	0.293	9.22	<0.001	0.073	0.13	0.006	0.010	0.011	100.00	10.58		<0.5
57869		0.016	0.065	0.004	0.708	8.83	<0.001	0.164	0.09	0.011	0.029	0.010	100.00	10.65		0.6
57870		0.016	0.155	0.008	0.471	9.83	<0.001	0.131	0.11	0.008	0.016	0.013	100.00	9.25		<0.5
57871		0.090	0.181	0.002	0.468	13.85	<0.001	0.137	0.21	0.009	0.011	0.016	100.00	8.89		<0.5
57872		0.009	0.288	0.013	0.284	9.02	<0.001	0.094	0.12	0.029	0.010	0.012	100.00	8.98		<0.5
57873		0.062	0.186	0.008	0.352	8.56	<0.001	0.098	0.10	0.015	0.010	0.011	100.00	9.42		<0.5
57874		0.027	0.157	0.009	0.263	17.95	<0.001	0.068	0.23	0.013	0.009	0.015	100.00	8.44		<0.5
57875		0.016	0.128	0.007	0.535	8.30	<0.001	0.085	0.08	0.007	0.010	0.010	100.00	9.67		<0.5
57876		0.007	0.111	0.012	0.327	8.67	<0.001	0.113	0.10	0.011	0.009	0.013	100.00	7.69		<0.5
57877		0.019	0.118	0.007	0.502	34.2	<0.001	0.153	0.42	0.012	0.010	0.024	100.05	6.87		<0.5
57878		0.038	0.077	0.009	0.235	25.9	<0.001	0.063	0.29	0.006	0.009	0.017	99.99	6.89		<0.5
57879		0.007	0.104	0.005	0.240	9.81	<0.001	0.055	0.13	0.024	0.009	0.008	100.00	10.27		<0.5
57880		0.001	0.309	0.007	0.159	12.40	<0.001	0.063	0.16	0.017	0.011	0.012	100.00	9.63		<0.5
57881		<0.001	0.083	<0.001	0.385	17.25	<0.001	0.073	0.19	0.004	0.008	0.010	100.00	9.96		<0.5
57882		0.006	0.411	0.010	0.152	17.75	<0.001	0.071	0.24	0.020	0.020	0.021	99.99	9.94		<0.5
57883		0.005	0.128	0.009	0.407	14.95	<0.001	0.095	0.21	0.007	0.011	0.015	100.00	10.06		<0.5
57884		0.004	0.084	0.008	0.438	41.1	<0.001	0.138	0.53	0.007	0.011	0.028	99.95	5.79	0.003	<0.5
57885		0.005	0.132	0.011	0.426	9.87	<0.001	0.126	0.12	0.014	0.014	0.014	100.00	9.30		<0.5
57886		<0.001	0.136	0.009	0.567	17.00	<0.001	0.142	0.24	0.010	0.011	0.023	100.00	8.29		<0.5
57887		0.002	0.106	0.009	0.197	10.60	<0.001	0.125	0.14	0.006	0.010	0.012	99.98	8.90		<0.5
57888		0.005	0.121	0.005	0.507	8.62	<0.001	0.251	0.10	0.024	0.011	0.012	100.00	10.12		<0.5
57889		0.005	0.151	0.002	0.336	9.66	<0.001	0.131	0.13	0.014	0.010	0.009	100.00	8.75		<0.5
57890		0.003	0.114	0.007	0.355	15.65	<0.001	0.108	0.21	0.014	0.011	0.016	99.99	7.88		<0.5
57891		0.003	0.133	0.006	0.490	9.59	<0.001	0.216	0.12	0.011	0.009	0.014	100.00	9.76		<0.5
57892		0.002	0.100	0.007	0.293	54.0	<0.001	0.081	0.74	0.015	0.008	0.044	100.00	4.53		<0.5
57893		0.003	0.140	0.007	0.157	43.4	<0.001	0.040	0.68	0.015	0.015	0.041	99.97	4.91		<0.5
57894		0.003	0.091	0.011	0.328	22.8	<0.001	0.131	0.33	0.010	0.010	0.025	100.00	6.64		<0.5
57895		0.003	0.051	0.008	0.182	67.6	<0.001	0.049	1.00	0.009	0.006	0.058	100.05	2.65		<0.5
57896		0.004	0.079	0.007	0.376	27.9	<0.001	0.302	0.30	0.010	0.007	0.028	100.00	8.81		<0.5
PF67		0.009	0.346	0.004	2.21	27.5	<0.001	0.057	0.44	0.015	0.015	0.020	103.15	12.12		<0.5
PF68		0.022	0.226	0.002	0.072	7.84	<0.001	0.004	0.07	0.003	0.037	0.005	99.99	10.89		<0.5
PF69		0.002	0.256	<0.001	0.427	5.64	<0.001	0.066	0.05	0.025	0.009	0.007	100.00	10.63		<0.5
PF70		0.004	0.246	0.007	0.291	31.5	<0.001	0.146	0.48	0.025	0.009	0.026	100.00	8.27		<0.5
PF71		0.005	0.110	0.012	0.230	60.0	<0.001	0.056	0.64	0.024	0.009	0.036	100.05	5.76		<0.5

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%
	LOR	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01	10	0.01
57864		1.29	22	7190	1.7	<2	1.00	<0.5	22	8	40	>50	<10	0.16	30	0.28
57865		1.00	25	620	1.2	5	0.89	<0.5	24	11	16	50.0	<10	0.12	10	0.23
57866		0.99	<5	1640	1.1	<2	0.39	<0.5	7	8	9	49.7	<10	0.10	10	0.16
57867		1.07	11	3210	0.9	<2	0.64	<0.5	11	8	17	>50	<10	0.11	10	0.21
57868		1.07	5	5420	0.9	5	0.61	<0.5	22	6	16	>50	10	0.11	10	0.31
57869		0.68	8	370	0.7	<2	1.00	<0.5	38	8	10	>50	<10	0.07	<10	0.26
57870		0.79	10	2030	1.0	4	0.57	<0.5	21	10	13	>50	<10	0.09	10	0.20
57871		0.97	9	2230	1.0	<2	0.56	<0.5	32	11	17	49.6	<10	0.11	10	0.18
57872		1.27	22	8140	1.4	4	0.71	<0.5	23	10	26	>50	<10	0.15	20	0.26
57873		0.94	13	5910	1.0	4	0.61	<0.5	15	9	27	>50	10	0.11	10	0.21
57874		1.67	8	6910	1.8	3	0.54	<0.5	17	15	11	43.8	10	0.23	10	0.20
57875		0.79	7	1470	0.9	4	0.78	<0.5	25	10	7	48.4	<10	0.11	10	0.18
57876		0.68	<5	6000	0.7	6	0.49	<0.5	22	8	6	47.5	<10	0.08	<10	0.15
57877		0.68	5	1860	0.9	2	0.46	1.2	24	14	8	32.6	<10	0.08	10	0.13
57878		0.64	8	4060	2.8	8	0.32	0.5	17	9	8	38.4	<10	0.07	<10	0.11
57879		1.37	25	2350	1.0	4	0.42	<0.5	29	12	9	46.8	10	0.16	<10	0.17
57880		0.83	10	2970	1.0	6	0.88	<0.5	19	11	10	46.5	<10	0.10	10	0.35
57881		1.57	<5	2860	1.0	6	0.66	0.5	28	17	6	44.4	<10	0.23	<10	0.31
57882		0.49	26	3000	0.8	5	1.09	<0.5	89	8	26	42.0	<10	0.06	20	0.30
57883		1.44	6	5960	2.3	10	0.73	<0.5	23	15	8	46.7	10	0.18	10	0.34
57884		0.76	8	1370	1.3	2	0.48	0.5	16	16	7	31.3	<10	0.10	10	0.14
57885		0.89	10	5750	1.4	5	0.37	<0.5	34	11	13	48.1	<10	0.11	10	0.18
57886		0.75	10	2170	0.8	<2	0.53	<0.5	21	13	12	43.0	<10	0.09	10	0.17
57887		1.27	8	3660	1.0	6	0.38	0.6	25	11	10	46.5	<10	0.16	<10	0.23
57888		1.00	15	3490	0.9	2	0.74	0.6	29	11	9	47.2	10	0.13	10	0.18
57889		1.07	<5	4640	0.7	6	0.54	<0.5	18	9	15	43.1	<10	0.12	10	0.16
57890		0.94	9	2200	1.0	8	0.40	<0.5	21	13	9	46.4	10	0.11	10	0.16
57891		0.90	9	3560	1.0	9	0.46	<0.5	25	14	9	49.3	<10	0.12	10	0.22
57892		0.49	8	2540	0.7	<2	0.38	<0.5	19	22	10	25.0	<10	0.07	10	0.10
57893		0.70	9	2560	0.9	7	0.46	0.9	24	13	14	29.8	<10	0.08	10	0.13
57894		0.75	9	2740	0.8	5	0.29	<0.5	16	12	8	43.5	<10	0.09	10	0.12
57895		0.54	<5	2300	0.5	4	0.34	<0.5	9	21	8	18.00	<10	0.08	10	0.07
57896		1.44	<5	3940	1.3	<2	0.53	<0.5	21	13	5	36.0	10	0.20	<10	0.20
PF67		3.77	8	400	11.2	6	3.12	<0.5	71	39	163	31.4	<10	0.43	10	0.14
PF68		0.64	<5	270	20.3	3	0.19	0.6	44	5	63	>50	10	0.10	<10	0.09
PF69		0.70	33	1320	1.8	7	0.87	<0.5	31	12	18	>50	<10	0.06	<10	0.29
PF70		0.57	46	2640	2.5	7	1.58	0.5	22	17	57	36.5	<10	0.06	<10	0.20
PF71		2.95	21	2410	1.6	<2	1.07	<0.5	26	38	51	13.25	10	0.59	20	0.52

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Project: Etadunna

CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10	1
57864		9140	7	0.08	37	3780	52	0.30	<5	4	1020	<20	0.09	<10	10	366
57865		3720	4	0.11	50	1850	39	0.48	<5	3	3650	<20	0.10	<10	<10	111
57866		3230	2	0.10	12	1470	29	0.17	<5	2	1330	<20	0.12	<10	<10	93
57867		4140	4	0.22	17	2060	40	0.20	<5	2	984	<20	0.07	<10	<10	175
57868		3720	3	0.05	26	1490	23	0.30	<5	2	752	<20	0.08	<10	<10	95
57869		1980	4	0.08	46	690	24	0.67	<5	1	1700	<20	0.06	<10	<10	140
57870		3330	3	0.10	36	1660	24	0.29	<5	2	1370	<20	0.07	<10	<10	122
57871		3560	3	0.10	40	1890	24	0.23	<5	3	1420	<20	0.12	<10	<10	136
57872		8430	9	0.15	35	3090	29	0.31	<5	3	1010	<20	0.07	<10	10	296
57873		3740	6	0.08	34	1970	26	0.35	5	2	1000	<20	0.07	<10	<10	172
57874		3080	5	1.43	23	1510	11	0.30	<5	4	685	<20	0.14	<10	<10	145
57875		3080	5	0.33	40	1170	6	0.46	<5	2	813	<20	0.06	<10	<10	98
57876		4390	7	1.15	22	990	8	0.32	<5	2	1020	<20	0.06	<10	<10	117
57877		1900	3	0.39	25	1100	21	0.25	<5	2	1420	<20	0.25	<10	<10	138
57878		1565	3	0.75	20	700	8	0.25	8	2	587	<20	0.16	<10	<10	77
57879		1675	4	0.50	31	950	<2	0.26	<5	3	539	<20	0.09	<10	<10	239
57880		4390	8	0.82	26	2910	6	0.18	6	3	636	<20	0.10	<10	<10	181
57881		2500	3	0.80	31	830	2	0.43	<5	3	756	<20	0.13	<10	<10	79
57882		2470	9	0.73	70	3780	26	0.17	<5	2	698	<20	0.12	<10	<10	203
57883		2470	6	1.33	27	1300	14	0.47	<5	3	990	<20	0.13	<10	<10	94
57884		1720	3	0.33	18	830	15	0.31	<5	2	1350	<20	0.31	<10	<10	101
57885		2320	4	1.03	36	1250	16	0.30	<5	3	1210	<20	0.07	<10	<10	151
57886		2540	3	0.46	23	1290	17	0.26	<5	3	1310	<20	0.13	<10	<10	116
57887		5670	5	0.77	24	980	5	0.22	<5	3	1180	<20	0.09	<10	<10	74
57888		2580	5	0.71	39	1120	2	0.51	<5	3	2290	<20	0.07	<10	<10	191
57889		2590	5	0.90	27	1280	3	0.33	<5	3	1110	<20	0.07	<10	<10	102
57890		2980	3	0.49	22	1120	14	0.23	<5	3	1050	<20	0.12	<10	<10	116
57891		3560	4	0.76	28	1290	10	0.33	<5	3	2050	<20	0.08	<10	<10	99
57892		2180	3	0.51	24	970	19	0.21	5	3	791	<20	0.39	<10	<10	133
57893		4710	7	0.63	30	1340	21	0.18	<5	3	404	<20	0.36	<10	<10	128
57894		2750	2	0.54	17	880	40	0.26	<5	2	1250	<20	0.18	<10	<10	87
57895		1130	3	0.44	13	510	10	0.23	<5	3	483	<20	0.54	<10	<10	66
57896		1325	12	0.96	21	740	8	0.42	<5	3	2840	<20	0.17	<10	<10	82
PF67		1775	10	0.24	66	3470	6	2.61	<5	13	607	<20	0.29	<10	<10	138
PF68		3020	4	0.12	90	2120	12	0.08	<5	2	84	<20	0.05	<10	<10	26
PF69		4740	6	0.37	29	2430	15	0.47	<5	5	668	<20	0.04	<10	<10	221
PF70		2530	3	0.53	28	2550	25	0.32	<5	5	1480	<20	0.27	<10	<10	228
PF71		2960	9	1.79	31	1080	32	0.27	<5	7	566	<20	0.37	<10	<10	201

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CERTIFICATE OF ANALYSIS AD11185025

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
57864		<10	78
57865		<10	49
57866		<10	39
57867		<10	48
57868		<10	74
57869		<10	273
57870		<10	142
57871		<10	93
57872		<10	63
57873		<10	64
57874		<10	47
57875		<10	53
57876		<10	35
57877		<10	69
57878		<10	44
57879		<10	57
57880		<10	70
57881		<10	54
57882		<10	160
57883		<10	68
57884		<10	81
57885		<10	92
57886		<10	62
57887		<10	50
57888		<10	62
57889		<10	49
57890		<10	65
57891		<10	44
57892		<10	49
57893		<10	123
57894		<10	69
57895		<10	36
57896		<10	38
PF67		<10	138
PF68		<10	335
PF69		<10	65
PF70		<10	62
PF71		<10	67

NAGROM
the mineral processors

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Nagrom Metallurgical Report

Posar Family Superannuation Pty Ltd

PO Box 271, INNISFAIL QLD 4860

Nagrom Batch Number: T861

Initial Investigation

January 19 2012

HEMATITE

GOETHITE

MARTITE

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Nagrom Report Summary

Reference: 861 Dated: January 19 2012

Findings:

- Nagrom received approximately 20kg of iron ore from Posar Family Superannuation Pty Ltd for initial investigation testwork. On receival the sample was composited and homogenised and then half split for testwork. The remainder was placed in reserve.
- The split for testwork was crushed to -1mm and sampled for head analysis and size by assay. The head analysis reported an Fe grade of 49.0% Fe.
- Magnetic characterisation was carried out on the -1.0 +0.5mm fraction from the size by assay. This was conducted at 6,000 and 10,000 gauss. The results for the magnetic characterisation are shown below:

Magnetic Characterisation (-1+0.5mm)

PRODUCT	Yield	Fe		SiO2		Al2O3	
Magnetics	%	%	dist.	%	dist.	%	dist.
6000 gauss	61.45%	54.16	63.96%	9.33	51.62%	2.37	59.09%
10,000 gauss	36.69%	51.01	35.97%	10.16	33.57%	2.72	40.52%
Non-Mags	1.86%	1.96	0.07%	88.49	14.81%	0.52	0.39%
Calculated Head	100.00%	52.03	100.00%	11.10	100.00%	2.47	100.00%

- From the magnetic characterisation, the 6,000 and 10,000 gauss fractions reported Fe grades of 54.2% and 51.0%, respectively. 99.9% of the Fe and 85% of the SiO2 reported to the magnetics fractions.
- The bulk remainder of -1mm crush was then stage ground to -0.5mm. 100g was split for particle size distribution (PSD) with the remainder proceeding to a rougher Wet High Gauss Magnetic Separation (WHGMS). The rougher WHGMS was conducted at 6,000 and 10,000 gauss, generating a magnetics fraction for each setting plus a non-magnetics fraction.
- The results for the rougher WHGMS are shown below:

Rougher WHGMS (-0.5mm)

PRODUCT	Yield	Fe		SiO2		Al2O3	
WHGMS	%	%	dist.	%	dist.	%	dist.
6000 gauss	70.83%	52.11	75.56%	11.00	50.59%	2.70	65.18%
10,000 gauss	20.74%	49.61	21.06%	13.51	18.18%	3.18	22.51%
Non-Magnetics	8.43%	19.61	3.39%	57.03	31.23%	4.28	12.31%
Calculated Head	100.00%	48.85	100.00%	15.40	100.00%	2.93	100.00%

- The rougher WHGMS reported 75.6% of the Fe to the 6,000 gauss magnetics at a grade of 52.1%. The 6,000 gauss magnetics reported a SiO2 grade of 11% which accounts for 50.6% of the total SiO2.
- The magnetics fractions from the rougher WHGMS were recombined and ground to -0.075mm. The -0.075mm ground material was split for PSD and the bulk remainder subject to a cleaner WHGMS at 6,000 and 10,000 gauss. Two magnetics fractions, a middlings and non-magnetics fraction were generated. The results for the cleaner WHGMS are shown below:

Cleaner WHGMS (Rougher Magnetics -0.075mm)

PRODUCT	Yield	Fe		SiO2		Al2O3	
WHGMS	%	%	dist.	%	dist.	%	dist.
6000 gauss	71.06%	54.76	75.97%	8.17	46.86%	2.27	55.04%
10,000 gauss	18.12%	50.40	17.83%	12.63	18.49%	3.19	19.77%
Middlings	3.48%	23.32	1.58%	52.39	14.71%	4.07	4.83%
Non-Magnetics	7.34%	32.22	4.62%	33.63	19.94%	8.12	20.36%
Calculated Head	100.00%	51.22	100.00%	12.38	100.00%	2.93	100.00%

- The 6,000 gauss cleaner magnetics reported 76.0% of the total Fe at a grade of 54.8% Fe. This fraction also contained 46.9% of the SiO2 at a grade of 8.2% SiO2.

- The rougher and cleaner WHGMS are summarised in the table below:

WHGMS SUMMARY							
PRODUCT	Yield	Fe		SiO2		Al2O3	
WHGMS	%	%	dist.	%	dist.	%	dist.
Cl. 6000 gauss	65.07%	54.76	73.38%	8.17	32.90%	2.27	48.50%
Cl. 10,000 gauss	16.59%	50.40	17.22%	12.63	12.98%	3.19	17.42%
Cl. Middlings	3.18%	23.32	1.53%	52.39	10.33%	4.07	4.26%
Cl. Non-Magnetics	6.72%	32.22	4.46%	33.63	14.00%	8.12	17.94%
Ro. Non-Magnetics	8.43%	19.61	3.41%	57.03	29.79%	4.28	11.88%
Calculated Head	100.00%	48.55	100.00%	16.15	100.00%	3.04	100.00%

- In the summary above, approximately 90% of the Fe can be recovered to the 6,000 and 10,000 gauss magnetics fractions while rejecting more than 50% of the SiO2 to the middlings and non-magnetics.

SAMPLE	Fe	SiO2	Al2O3	TiO2	MnO	MgO	CaO	V2O5	P	S	K2O	Na2O	Cr2O3	LOI(1000)
	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Head	49.010	14.632	2.905	0.181	0.856	0.511	0.770	0.0137	0.094	0.242	0.250	0.213	<0.0001	8.27

SAMPLE	Weight	Fe	SiO2	Al2O3	TiO2	MnO	MgO	CaO	V2O5	P	S	K2O	Na2O	Cr2O3	LOI(1000)	STAGE Deportment			
	gms	%	%	%	%	%	%	%	%	%	%	%	%	%	%	Yield	Fe	SiO2	Al2O3
HEAD		49.010	14.632	2.905	0.181	0.856	0.511	0.770	0.0137	0.094	0.242	0.250	0.213	<0.0001	8.27				
Head Sizing (-1mm crush)																			
Calc. Head	978.3	49.074	15.159	2.979	0.194	0.842	0.531	0.602	0.0154	0.096	0.158	0.256	0.202	0.0036	8.04	100.00%	100.00%	100.00%	100.00%
Sizing																			
+0.5mm	385.7	52.018	10.978	2.502	0.139	0.883	0.471	0.690	0.0151	0.100	0.208	0.192	0.167	0.0001	8.46	39.43%	41.79%	28.55%	33.12%
+0.25mm	196.3	51.703	11.797	2.422	0.138	0.863	0.470	0.613	0.0139	0.096	0.183	0.189	0.153	<0.0001	8.35	20.07%	21.14%	15.61%	16.32%
+0.125mm	108.1	48.268	17.436	2.437	0.135	0.799	0.461	0.530	0.0151	0.088	0.147	0.212	0.197	0.0063	7.79	11.05%	10.87%	12.71%	9.04%
+0.106mm	31.6	42.610	26.623	2.464	0.160	0.708	0.410	0.436	0.0127	0.079	0.100	0.281	0.270	0.0169	6.74	3.23%	2.80%	5.67%	2.67%
+0.075mm	45.5	41.002	28.671	2.881	0.431	0.680	0.434	0.476	0.0168	0.078	0.097	0.305	0.309	0.0035	6.37	4.65%	3.89%	8.80%	4.50%
+0.063mm	20.5	41.429	27.578	2.831	0.319	0.671	0.453	0.445	0.0132	0.076	0.107	0.337	0.434	0.0133	6.54	2.10%	1.77%	3.81%	1.99%
+0.045mm	28.3	44.061	23.639	2.800	0.352	0.737	0.474	0.425	0.0164	0.082	0.088	0.345	0.335	0.0123	6.91	2.89%	2.60%	4.51%	2.72%
-0.045mm	162.3	44.794	18.579	5.322	0.331	0.858	0.865	0.548	0.0182	0.106	0.064	0.476	0.252	0.0091	7.92	16.59%	15.14%	20.33%	29.64%
Magnetic Characterisation (-1+0.5mm)																			
Calc. Head	204.4	52.030	11.105	2.467	0.144	0.859	0.470	0.683	0.0134	0.096	0.200	0.192	0.168	0.0050	8.41	100.00%	100.00%	100.00%	100.00%
Magnetics																			
6000 gauss	125.6	54.157	9.328	2.372	0.133	0.910	0.446	0.645	0.0123	0.091	0.159	0.179	0.165	<0.0001	7.49	61.45%	63.96%	51.62%	59.09%
10,000 gauss	75.0	51.005	10.160	2.724	0.154	0.814	0.529	0.728	0.0157	0.109	0.231	0.221	0.179	0.0022	10.24	36.69%	35.97%	33.57%	40.52%
Non-Mags	3.8	1.964	88.485	0.524	0.297	0.082	0.077	1.028	0.0052	0.011	0.922	0.039	0.027	0.2269	2.68	1.86%	0.07%	14.81%	0.39%
Head Sizing (-0.5mm crush)																			
Calc. Head	99.8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	100.00%	#DIV/0!	#DIV/0!	#DIV/0!
Sizing																			
+0.5mm	0.2															0.20%	#DIV/0!	#DIV/0!	#DIV/0!
+0.25mm	36.1															36.17%	#DIV/0!	#DIV/0!	#DIV/0!
+0.125mm	12.9															12.93%	#DIV/0!	#DIV/0!	#DIV/0!
+0.106mm	2.1															2.10%	#DIV/0!	#DIV/0!	#DIV/0!
+0.075mm	4.4															4.41%	#DIV/0!	#DIV/0!	#DIV/0!
+0.063mm	15.8															15.83%	#DIV/0!	#DIV/0!	#DIV/0!
+0.045mm	7.0															7.01%	#DIV/0!	#DIV/0!	#DIV/0!
+0.038mm	2.0															2.00%	#DIV/0!	#DIV/0!	#DIV/0!
-0.038mm	19.3															19.34%	#DIV/0!	#DIV/0!	#DIV/0!
Head Sizing (-0.075mm grind)																			
Calc. Head	84.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	100.00%	#DIV/0!	#DIV/0!	#DIV/0!
Sizing																			
+0.5mm	0.2															0.23%	#DIV/0!	#DIV/0!	#DIV/0!
+0.25mm	0.1															0.08%	#DIV/0!	#DIV/0!	#DIV/0!
+0.125mm	0.1															0.11%	#DIV/0!	#DIV/0!	#DIV/0!
+0.106mm	0.1															0.07%	#DIV/0!	#DIV/0!	#DIV/0!
+0.075mm	1.6															1.87%	#DIV/0!	#DIV/0!	#DIV/0!
+0.063mm	0.5															0.58%	#DIV/0!	#DIV/0!	#DIV/0!
+0.045mm	21.6															25.67%	#DIV/0!	#DIV/0!	#DIV/0!
+0.038mm	8.0															9.50%	#DIV/0!	#DIV/0!	#DIV/0!
-0.038mm	52.0															61.89%	#DIV/0!	#DIV/0!	#DIV/0!

SAMPLE	Weight	Fe	SiO2	Al2O3	TiO2	MnO	MgO	CaO	V2O5	P	S	K2O	Na2O	Cr2O3	LOI(1000)	STAGE Deportment			
	gms	%	%	%	%	%	%	%	%	%	%	%	%	%	%	Yield	Fe	SiO2	Al2O3
HEAD		49.010	14.632	2.905	0.181	0.856	0.511	0.770	0.0137	0.094	0.242	0.250	0.213	<0.0001	8.27				

Feed % Solids (%)	20.0
Matrix (mm)	1.0
Gauss 1	6000
Gauss 2	10000
Ring Speed (RPM)	1.7
Pulse	300

Rougher WHGMS (-0.5mm)

Calc. Head	7726.5	48.850	15.404	2.933	0.182	0.840	0.543	0.827	0.0126	0.192	0.107	0.257	0.191	0.0035	7.82	100.00%	100.00%	100.00%	100.00%
WHGMS																			
6000 gauss	5472.6	52.110	11.002	2.699	0.172	0.887	0.529	0.690	0.0126	0.145	0.107	0.210	0.165	0.0029	8.11	70.83%	75.56%	50.59%	65.18%
10,000 gauss	1602.2	49.612	13.508	3.184	0.193	0.872	0.605	0.895	0.0142	0.228	0.093	0.266	0.204	0.0051	8.19	20.74%	21.06%	18.18%	22.51%
Non-Magnetics	651.7	19.606	57.030	4.281	0.236	0.371	0.510	1.814	0.0090	0.494	0.146	0.632	0.378	0.0044	4.50	8.43%	3.39%	31.23%	12.31%

SAMPLE	Weight	Fe	SiO2	Al2O3	TiO2	MnO	MgO	CaO	V2O5	P	S	K2O	Na2O	Cr2O3	LOI(1000)	STAGE Deportment			
	gms	%	%	%	%	%	%	%	%	%	%	%	%	%	%	Yield	Fe	SiO2	Al2O3
Rougher Magnetics		51.276	11.748	3.083	0.185	0.909	0.622	0.651	0.0149	0.167	0.070	0.227	0.167	0.0179	8.11				

Feed % Solids (%)	20.0
Matrix (mm)	1.0
Gauss 1	6000
Gauss 2	10000
Ring Speed (RPM)	1.7
Pulse	300

Cleaner WHGMS (Rougher Magnetics -0.075mm)

Calc. Head	5673.2	51.220	12.381	2.926	0.180	0.902	0.534	0.610	0.0097	0.169	0.062	0.244	0.326	0.0269	7.79	100.00%	100.00%	100.00%	100.00%
WHGMS																			
6000 gauss	4031.5	54.757	8.165	2.266	0.158	0.943	0.481	0.477	0.0094	0.127	0.061	0.158	0.313	0.0255	8.06	71.06%	75.97%	46.86%	55.04%
10,000 gauss	1028.0	50.400	12.633	3.192	0.200	0.918	0.584	0.729	0.0101	0.221	0.060	0.272	0.209	0.0320	7.99	18.12%	17.83%	18.49%	19.77%
Middlings	197.2	23.315	52.385	4.068	0.197	0.410	0.337	1.823	0.0065	0.538	0.067	0.691	0.799	0.0641	3.89	3.48%	1.58%	14.71%	4.83%
Non-Magnetics	416.5	32.217	33.625	8.115	0.334	0.703	1.019	1.026	0.0132	0.273	0.071	0.798	0.517	0.0102	6.52	7.34%	4.62%	19.94%	20.36%

WHGMS SUMMARY

Calc. Head	7726.5	48.553	16.147	3.040	0.185	0.858	0.532	0.711	0.0096	0.196	0.069	0.277	0.330	0.0250	7.51	100.00%	100.00%	100.00%	100.00%
WHGMS																			
Cl. 6000 gauss	5027.5	54.757	8.165	2.266	0.158	0.943	0.481	0.477	0.0094	0.127	0.061	0.158	0.313	0.0255	8.06	65.07%	73.38%	32.90%	48.50%
Cl. 10,000 gauss	1282.0	50.400	12.633	3.192	0.200	0.918	0.584	0.729	0.0101	0.221	0.060	0.272	0.209	0.0320	7.99	16.59%	17.22%	12.98%	17.42%
Cl. Middlings	245.9	23.315	52.385	4.068	0.197	0.410	0.337	1.823	0.0065	0.538	0.067	0.691	0.799	0.0641	3.89	3.18%	1.53%	10.33%	4.26%
Cl. Non-Magnetics	519.4	32.217	33.625	8.115	0.334	0.703	1.019	1.026	0.0132	0.273	0.071	0.798	0.517	0.0102	6.52	6.72%	4.46%	14.00%	17.94%
Ro. Non-Magnetics	651.7	19.606	57.030	4.281	0.236	0.371	0.510	1.814	0.0090	0.494	0.146	0.632	0.378	0.0044	4.50	8.43%	3.41%	29.79%	11.88%

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Nagrom Capabilities

Metallurgical Testing and Mineral Beneficiation
(Laboratory to Pilot scale)

- Crushing and grinding - jaw and rolls crushing, rod and ball milling
- Custom drying
- Size separation
- Gravity separation- Spiral, Tables, Jigs and Hydrosizer
- Dense Media cyclone and Cone
- Full transmission x-ray ore sorting
- Magnetic Separation
- Electrostatic Separation
- Flotation Separation
- Gold Recovery and Leaching Program

Mineral Process Plant -Design, Fabrication and Operation
Nagrom has in-house fabrication ability to assist with:

- Process circuit design, construction, deployment and operation.
- Custom mineral processing to specifications
- Sourcing, supplying and commisioning specified equipment
- Facilitate superintended export of blended final product

Mine site Services - Contract Staffing

- On site processing/consulting
- Short/Long term coverage of contract staff

Equipment Hire

- A range of Pilot scale equipment available for hire

Mineral Processing - Metallurgical Testing - Circuitry Design - Equipment Supply

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Nagrom Statement of Certification

Sample Preparation and Analysis:

The testwork is conducted by experienced personnel at Nagrom's Kelmscott metallurgical laboratory under the supervision of a senior metallurgist.

Process solids are assayed in-house using fused bead/XRF methods where applicable otherwise acid/fusion dilution followed by ICP-MS methods are used.

Process solutions are assayed in-house using ICP-OES and ICP-MS techniques.
Ultratrace Laboratories are used to augment our services and provide external reference.

The reports will be signed on behalf of the General Manager and Executive Director of Nagrom (the Mineral Processors).

Dr Slobodanka Vukcevic

For further information, contact:
Slobodanka Vukcevic, Senior Metallurgist
Telephone: +61 8 9399 3934
Mobile: 0439 900 455

Information in the report relating to the metallurgical interpretation, analysis, mineral distribution and recommendations has been compiled and checked by the Senior Metallurgist of Nagrom. Dr Slobodanka Vukcevic has sufficient experience and expertise relevant to this type of test-work through her job experiences and education and she qualifies as a competent person in the field of metallurgy.

The Nagrom team including Slobodanka Vukcevic, Rick Murphy and Tony Wilkinson has a wide range of metallurgical experiences in comminution, gravity separation, flotation, leaching, SX, IX, precipitation, and settling from bench testing scale through to pilot plant scale for the development of flow-sheets or for solving process problems.

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Nagrom Metallurgical Report

Posar Family Superannuation Pty Ltd

PO Box 271,

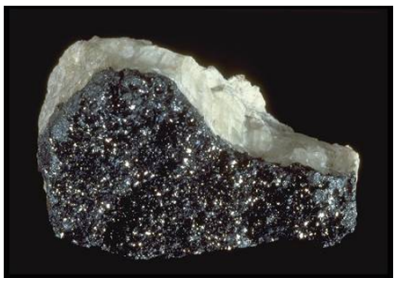
INNISFAIL QLD 4860

Nagrom Batch Number: T929

Density Testwork

March 23 2012

HEMATITE



GOETHITE

MARTITE

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Nagrom Report Summary

Reference: 929 Dated: March 23 2012

Findings:

- Posar Family Superannuation provided Nagrom with approximately 120kg of iron ore sample to complete a Dense Media testwork programme.
- A total of six (6) samples were received with three (3) being selected and composited for testwork.
- The composite weighed approximately 60kg and was then passed dry through a 5mm screen. The undersize was sampled and had no further testwork conducted on it. The -5mm reported a SiO2 deportment of 78.7% while the 88.5% of the Fe2O3 reported to the +5mm.
- The +5mm material was split into three (3) 10kg charges, and subject to dense media separation by the use of the Ericsson Cone. Three tests were conducted at SGs of 3.0, 3.2 and 3.4.
- The Ericsson Cone test work is presented below for each SG setting:

TN Composite +5mm Ericsson Cone SG 3.4							
PRODUCT	Yield	Fe		SiO2		Al2O3	
EC SG 3.4	%	%	dist.	%	dist.	%	dist.
Underflow	26.02%	56.41	27.11%	6.11	18.89%	1.38	19.97%
Overflow	73.98%	53.35	72.89%	9.23	81.11%	1.95	80.03%
Calculated Head	100.00%	54.15	100.00%	8.42	100.00%	1.80	100.00%

TN Composite +5mm Ericsson Cone SG 3.2							
PRODUCT	Yield	Fe		SiO2		Al2O3	
EC SG 3.2	%	%	dist.	%	dist.	%	dist.
Underflow	37.87%	56.54	40.42%	6.51	23.15%	1.49	28.61%
Overflow	62.13%	50.79	59.58%	13.17	76.85%	2.27	71.39%
Calculated Head	100.00%	52.97	100.00%	10.65	100.00%	1.97	100.00%

TN Composite +5mm Ericsson Cone SG 3.0							
PRODUCT	Yield	Fe		SiO2		Al2O3	
EC SG 3.0	%	%	dist.	%	dist.	%	dist.
Underflow	62.75%	55.68	65.34%	6.89	45.59%	1.54	47.60%
Overflow	37.25%	49.77	34.66%	13.85	54.41%	2.86	52.40%
Calculated Head	100.00%	53.48	100.00%	9.48	100.00%	2.03	100.00%

- Across each SG setting, the Fe grade varies from 55.7% at SG 3.0 to 56.5% at SG 3.2.
- The deportments of Fe to the underflow varies from 27.11% at SG 3.4 to 65.34% at SG 3.0.

Posar Family Superannuation Pty Ltd	*Samples Received*	Report Date: March 23 2012

SAMPLE	Mass g
TN1001	13088.8
TN1001	11134.7
TN1002	11480.0
TN1002	12908.9
TN1003	9369.1
TN1003	10637.9
TN1004	9534.9
TN1004	10857.7
TN1005	10489.5
TN1005	7558.4
TN1006	8386.2
TN1006	8485.4

The following samples were composited for testwork:

SAMPLE	Mass g
TN1002	11480.0
TN1002	12908.9
TN1005	10489.5
TN1005	7558.4
TN1006	8386.2
TN1006	8485.4
TN Composite	**59308.4**

SAMPLE	Weight	Fe	SiO2	Al2O3	TiO2	MnO	MgO	CaO	V2O5	P	S	K2O	Na2O	Cr2O3	LOI(1000)	STAGE Deportment			
	gms	%	%	%	%	%	%	%	%	%	%	%	%	%	%	Yield	Fe	SiO2	Al2O3
TN Composite																			
TN Composite Sizing																			
Calc. Head	58973.6	37.300	30.731	4.680	0.352	0.459	0.503	0.666	0.0233	0.100	0.261	0.577	0.362	0.0094	7.16	100.00%	100.00%	100.00%	100.00%
Sizing(mm)																			
+5	37107.20	52.469	10.415	2.357	0.131	0.605	0.323	0.696	0.0221	0.119	0.367	0.199	0.151	0.0065	8.84	62.92%	88.51%	21.32%	31.69%
-5	21866.40	11.559	65.208	8.623	0.728	0.211	0.808	0.616	0.0254	0.069	0.081	1.218	0.720	0.0142	4.30	37.08%	11.49%	78.68%	68.31%

SAMPLE	Weight	Fe	SiO2	Al2O3	TiO2	MnO	MgO	CaO	V2O5	P	S	K2O	Na2O	Cr2O3	LOI(1000)	STAGE Deportment			
	gms	%	%	%	%	%	%	%	%	%	%	%	%	%	%	Yield	Fe	SiO2	Al2O3
TN Composite +5mm		52.469	10.415	2.357	0.131	0.605	0.323	0.696	0.0221	0.119	0.367	0.199	0.151	0.007	8.84				
TN Composite +5mm Ericsson Cone																			
Calc. Head	9712.4	54.150	8.420	1.802	0.099	0.515	0.310	0.762	0.0209	0.106	0.418	0.149	0.119	0.0114	9.09	100.00%	100.00%	100.00%	100.00%
EC SG 3.4																			
Underflow	2527.00	56.414	6.113	1.383	0.064	0.318	0.249	0.663	0.0200	0.086	0.422	0.093	0.069	0.0111	9.06	26.02%	27.11%	18.89%	19.97%
Overflow	7185.40	53.354	9.232	1.949	0.111	0.584	0.332	0.797	0.0212	0.113	0.417	0.169	0.136	0.0115	9.10	73.98%	72.89%	81.11%	80.03%
TN Composite +5mm Ericsson Cone																			
Calc. Head	9696.9	52.969	10.649	1.974	0.151	0.537	0.305	0.665	0.0211	0.108	0.338	0.159	0.126	0.0123	8.45	100.00%	100.00%	100.00%	100.00%
EC SG 3.2																			
Underflow	3672.40	56.540	6.509	1.491	0.070	0.343	0.250	0.625	0.0198	0.087	0.440	0.104	0.076	0.0129	8.31	37.87%	40.42%	23.15%	28.61%
Overflow	6024.50	50.793	13.173	2.268	0.200	0.655	0.339	0.689	0.0219	0.120	0.276	0.193	0.156	0.0119	8.53	62.13%	59.58%	76.85%	71.39%
TN Composite +5mm Ericsson Cone																			
Calc. Head	9642.3	53.477	9.478	2.033	0.111	0.615	0.312	0.658	0.0203	0.111	0.314	0.164	0.125	0.0151	8.81	100.00%	100.00%	100.00%	100.00%
EC SG 3.0																			
Underflow	6050.90	55.679	6.886	1.542	0.073	0.411	0.269	0.638	0.0169	0.088	0.384	0.114	0.079	0.0153	9.16	62.75%	65.34%	45.59%	47.60%
Overflow	3591.40	49.767	13.845	2.860	0.174	0.960	0.385	0.693	0.0259	0.149	0.197	0.248	0.203	0.0148	8.22	37.25%	34.66%	54.41%	52.40%

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Dr Slobodanka Vukcevic

For further information, contact:
Slobodanka Vukcevic, Senior Metallurgist
Telephone: +61 8 9399 3934
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Mineral Processing - Metallurgical Testing - Circuitry Design - Equipment Supply

Australian Laboratory Services Pty. Ltd.
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www.alsglobal.com

Finalized Date: 31- AUG- 2012
Account: POSFAM

CERTIFICATE BR12196124

Project:
P.O. No.:
This report is for 6 Solid samples submitted to our lab in Brisbane, QLD, Australia on 23- AUG- 2012.
The following have access to data associated with this certificate:

SANDRA POSAR	ALEX WHITE	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LEV- 01	Waste Disposal Levy
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 21	Crush entire sample > 70% - 6 mm
PUL- 23	Pulv Sample - Split/Retain
BAG- 01	Bulk Master for Storage
SPL- 21	Split sample - riffle splitter
TRA- 21	Transfer sample

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- GRA05	H2O/LOI by TGA furnace	TGA
ME- MS81	38 element fusion ICP- MS	ICP- MS
ME- XRF21n	Iron Ore by XRF Fusion	XRF

To: POSAR FAMILY SUPERANNUATION PTY LTD
ATTN: SANDRA POSAR
PO BOX 271
INNISFAIL QLD 4860

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Comments: Please note the S result for sample id TN1004 for ME- XRF21n is 6.01%

Signature:

Shaun Kenny, Brisbane Laboratory Manager

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CERTIFICATE OF ANALYSIS BR12196124

Sample Description	Method	WEI-21	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n	ME-XRF21n
	Analyte	Recvd Wt.	Al2O3	As	Ba	CaO	Cl	Co	Cr2O3	Cu	Fe	K2O	MgO	Mn	Na2O	Ni
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.001	0.001	0.01	0.001	0.001	0.0006	0.001	0.01	0.001	0.01	0.001	0.005	0.001
TN1001		13.29	6.09	0.001	0.021	5.30	0.126	0.002	0.0057	0.002	33.23	0.462	0.51	0.531	0.256	0.006
TN1002		10.87	5.29	0.001	0.804	0.76	0.032	0.002	0.0033	0.002	33.04	0.617	0.56	0.240	0.345	0.007
TN1003		9.52	4.50	0.001	0.031	7.95	0.083	0.002	0.0050	0.002	30.99	0.493	0.65	1.090	0.327	0.006
TN1004		9.61	4.82	<0.001	0.039	11.20	0.680	0.002	0.0036	0.002	25.00	0.506	0.65	0.616	0.864	0.006
TN1005		9.72	4.08	0.002	0.130	0.55	0.044	0.002	0.0025	0.001	39.30	0.488	0.46	0.649	0.355	0.006
TN1006		5.41	4.68	0.001	0.468	0.70	0.071	0.002	0.0055	0.002	36.01	0.602	0.52	0.279	0.430	0.006

Comments: Please note the S result for sample id TN1004 for ME-XRF21n is 6.01%

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CERTIFICATE OF ANALYSIS BR12196124

Sample Description	Method	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- GRA05	ME- MS81	ME- MS81	ME- MS81	ME- MS81
	Analyte	P	Pb	S	SiO2	Sn	Sr	TiO2	V	Zn	Zr	LOI	Ba	Ce	Cr	Cs
	Units	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm
	LOR	0.001	0.001	0.001	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.5	0.5	10	0.01
TN1001		0.055	<0.001	2.75	25.5	0.001	0.078	0.39	0.007	0.005	0.013	9.33	270	23.6	40	1.30
TN1002		0.104	<0.001	0.343	35.2	<0.001	0.073	0.35	0.012	0.005	0.026	7.14	7740	38.9	30	1.37
TN1003		0.050	0.001	4.10	23.6	0.001	0.169	0.25	0.004	0.003	0.012	9.27	378	17.8	30	1.17
TN1004		0.045	0.003	>5.0	24.5	0.002	0.370	0.27	0.009	0.004	0.013	8.93	449	17.4	20	1.01
TN1005		0.096	<0.001	0.126	28.9	<0.001	0.049	0.34	0.012	0.005	0.027	6.87	1525	36.6	30	1.01
TN1006		0.086	<0.001	0.262	32.2	<0.001	0.057	0.37	0.010	0.010	0.033	7.03	4670	34.4	30	1.31

Comments: Please note the S result for sample id TN1004 for ME-XRF21n is 6.01%

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Sample Description	Method / Analyte / Units / LOR	ME- MS81 Dy ppm 0.05	ME- MS81 Er ppm 0.03	ME- MS81 Eu ppm 0.03	ME- MS81 Ga ppm 0.1	ME- MS81 Gd ppm 0.05	ME- MS81 Hf ppm 0.2	ME- MS81 Ho ppm 0.01	ME- MS81 La ppm 0.5	ME- MS81 Lu ppm 0.01	ME- MS81 Nb ppm 0.2	ME- MS81 Nd ppm 0.1	ME- MS81 Pr ppm 0.03	ME- MS81 Rb ppm 0.2	ME- MS81 Sm ppm 0.03	ME- MS81 Sn ppm 1
TN1001		2.07	1.31	0.70	8.2	2.07	3.1	0.42	13.1	0.17	4.3	11.1	2.68	18.6	2.26	1
TN1002		3.68	2.13	1.09	7.2	3.97	7.0	0.77	22.3	0.32	4.2	20.6	5.01	22.7	4.59	1
TN1003		1.61	0.99	0.55	7.0	1.72	2.3	0.37	10.7	0.15	2.9	8.5	2.01	18.0	1.91	1
TN1004		1.73	1.09	0.56	6.5	1.81	2.6	0.39	9.6	0.15	2.9	9.0	2.13	17.8	1.99	1
TN1005		3.09	1.93	0.95	6.0	3.50	7.0	0.72	20.0	0.32	4.0	17.0	4.26	17.1	3.56	1
TN1006		2.99	1.88	0.92	6.7	3.37	8.6	0.68	18.2	0.31	4.7	16.5	4.03	21.6	3.83	1

Comments: Please note the S result for sample id TN1004 for ME-XRF21n is 6.01%

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CERTIFICATE OF ANALYSIS BR12196124

Sample Description	Method	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81
	Analyte	Sr	Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	20
TN1001		879	0.3	0.38	3.18	<0.5	0.23	2.09	88	1	13.4	1.20	130
TN1002		818	0.3	0.63	3.71	<0.5	0.36	2.28	144	1	25.1	1.93	300
TN1003		1870	0.2	0.28	2.00	<0.5	0.20	3.47	64	<1	11.8	0.96	100
TN1004		3650	0.2	0.27	2.39	<0.5	0.20	7.48	97	<1	11.0	1.08	110
TN1005		595	0.3	0.54	3.14	<0.5	0.31	5.70	143	1	22.6	1.85	310
TN1006		661	0.3	0.51	3.52	<0.5	0.30	3.22	115	1	21.5	1.86	370

Comments: Please note the S result for sample id TN1004 for ME-XRF21n is 6.01%

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Finalized Date: 31- AUG- 2012
Account: POSFAM

QC CERTIFICATE BR12196124

Project:

P.O. No.:

This report is for 6 Solid samples submitted to our lab in Brisbane, QLD, Australia on 23- AUG- 2012.

The following have access to data associated with this certificate:

SANDRA POSAR	ALEX WHITE	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LEV- 01	Waste Disposal Levy
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 21	Crush entire sample > 70% - 6 mm
PUL- 23	Pulv Sample - Split/Retain
BAG- 01	Bulk Master for Storage
SPL- 21	Split sample - riffle splitter
TRA- 21	Transfer sample

ANALYTICAL PROCEDURES

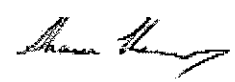
ALS CODE	DESCRIPTION	INSTRUMENT
ME- GRA05	H2O/LOI by TGA furnace	TGA
ME- MS81	38 element fusion ICP- MS	ICP- MS
ME- XRF21n	Iron Ore by XRF Fusion	XRF

To: **POSAR FAMILY SUPERANNUATION PTY LTD**
ATTN: SANDRA POSAR
PO BOX 271
INNISFAIL QLD 4860

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Comments: Please note the S result for sample id TN1004 for ME- XRF21n is 6.01%

Signature:



Shaun Kenny, Brisbane Laboratory Manager

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Sample Description	Method / Analyte / Units / LOR	ME-XRF21n Al2O3 % 0.01	ME-XRF21n As % 0.001	ME-XRF21n Ba % 0.001	ME-XRF21n CaO % 0.01	ME-XRF21n Cl % 0.001	ME-XRF21n Co % 0.001	ME-XRF21n Cr2O3 % 0.0006	ME-XRF21n Cu % 0.001	ME-XRF21n Fe % 0.01	ME-XRF21n K2O % 0.001	ME-XRF21n MgO % 0.01	ME-XRF21n Mn % 0.001	ME-XRF21n Na2O % 0.005	ME-XRF21n Ni % 0.001	ME-XRF21n P % 0.001
STANDARDS																
LAT-CS9																
Target Range - Lower Bound																
Upper Bound																
LKSD-2																
Target Range - Lower Bound																
Upper Bound																
MW-1		0.30	<0.001	0.001	0.05	0.002	0.188	0.1300	0.002	65.89	0.013	0.05	0.016	0.014	0.090	0.011
Target Range - Lower Bound		0.28	<0.001	<0.001	0.03	<0.001	0.167	0.1165	<0.001	65.41	0.011	<0.01	0.014	<0.005	0.077	0.009
Upper Bound		0.32	0.003	0.003	0.07	0.003	0.206	0.1435	0.005	66.75	0.015	0.05	0.018	0.026	0.096	0.013
NCSDC28006		0.64	0.001	0.488	12.00	0.005	0.001	0.0022	0.066	40.29	0.196	1.14	1.320	<0.005	0.005	0.041
Target Range - Lower Bound		0.63	<0.001	0.461	11.70	0.003	<0.001	0.0019	0.054	39.83	0.189	1.14	1.250	<0.005	0.005	0.039
Upper Bound		0.67	0.004	0.512	12.20	0.007	0.004	0.0047	0.068	40.65	0.211	1.20	1.385	0.016	0.009	0.045
SARM-39		4.22	<0.001	0.170	9.60	0.043	0.007	0.1895	0.008	6.48	0.075	26.2	0.128	0.642	0.100	0.638
Target Range - Lower Bound		4.19	<0.001	0.161	9.49	0.031	0.005	0.1705	0.005	6.42	0.067	25.7	0.124	0.553	0.088	0.604
Upper Bound		4.39	0.004	0.180	9.89	0.040	0.010	0.210	0.010	6.57	0.095	26.7	0.139	0.687	0.110	0.670
STSD-1																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.01	<0.001	<0.001	<0.01	<0.001	<0.001	<0.0006	<0.001	<0.01	<0.001	<0.01	<0.001	<0.005	<0.001	<0.001
Target Range - Lower Bound		<0.01		<0.001	<0.01	<0.001	<0.001	<0.0006	<0.001	<0.01	<0.001	<0.01	<0.001	<0.005	<0.001	<0.001
Upper Bound		0.02		0.002	0.02	0.002	0.002	0.0012	0.002	0.02	0.002	0.02	0.002	0.010	0.002	0.002

Comments: Please note the S result for sample id TN1004 for ME-XRF21n is 6.01%

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Sample Description	Method Analyte Units LOR	ME- XRF21n Pb % 0.001	ME- XRF21n S % 0.001	ME- XRF21n SiO2 % 0.01	ME- XRF21n Sn % 0.001	ME- XRF21n Sr % 0.001	ME- XRF21n TiO2 % 0.01	ME- XRF21n V % 0.001	ME- XRF21n Zn % 0.001	ME- XRF21n Zr % 0.001	ME- GRA05 LOI % 0.01	ME- MS81 Ba ppm 0.5	ME- MS81 Ce ppm 0.5	ME- MS81 Cr ppm 10	ME- MS81 Cs ppm 0.01	ME- MS81 Dy ppm 0.05
STANDARDS																
LAT- CS9											12.43					
Target Range - Lower Bound											12.34					
Upper Bound											13.12					
LKSD- 2												794	123.5	60	3.05	6.51
Target Range - Lower Bound												702	96.7	30	2.69	6.52
Upper Bound												859	119.5	80	3.31	6.08
MW- 1		0.001	0.009	4.63	0.001	<0.001	0.12	0.003	0.001	0.002						
Target Range - Lower Bound		<0.001	0.009	4.54	<0.001	<0.001	0.11	<0.001	<0.001	<0.001						
Upper Bound		0.003	0.013	4.66	0.003	0.003	0.15	0.005	0.004	0.004						
NCSDC28006		0.006	0.090	8.38	0.002	0.006	0.03	0.006	0.002	0.002						
Target Range - Lower Bound		0.002	0.082	8.31	<0.001	0.004	<0.01	0.003	<0.001	<0.001						
Upper Bound		0.007	0.092	8.49	0.005	0.009	0.05	0.007	0.003	0.004						
SARM- 39		0.002	0.302	33.7	0.002	0.144	1.58	0.010	0.007	0.024						
Target Range - Lower Bound		<0.001	0.287	33.1	<0.001	0.128	1.49	0.008	0.005	0.020						
Upper Bound		0.004	0.320	33.7	0.003	0.159	1.67	0.013	0.010	0.027						
STSD- 1												611	51.5	60	1.70	5.45
Target Range - Lower Bound												567	45.4	40	1.61	4.99
Upper Bound												694	56.6	90	1.99	6.21
BLANKS																
BLANK												<0.5	<0.5	10	<0.01	<0.05
Target Range - Lower Bound												<0.5	<0.5	<10	<0.01	<0.05
Upper Bound												1.0	1.0	20	0.02	0.10
BLANK		<0.001	<0.001	100.0	0.002	<0.001	0.01	<0.001	<0.001	<0.001						
Target Range - Lower Bound			<0.001	<0.01	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001						
Upper Bound			0.002	0.02	0.002	0.002	0.02	0.002	0.002	0.002						

Comments: Please note the S result for sample id TN1004 for ME- XRF21n is 6.01%

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QC CERTIFICATE OF ANALYSIS BR12196124

Sample Description	Method Analyte Units LOR	ME- MS81 Er ppm 0.03	ME- MS81 Eu ppm 0.03	ME- MS81 Ga ppm 0.1	ME- MS81 Gd ppm 0.05	ME- MS81 Hf ppm 0.2	ME- MS81 Ho ppm 0.01	ME- MS81 La ppm 0.5	ME- MS81 Lu ppm 0.01	ME- MS81 Nb ppm 0.2	ME- MS81 Nd ppm 0.1	ME- MS81 Pr ppm 0.03	ME- MS81 Rb ppm 0.2	ME- MS81 Sm ppm 0.03	ME- MS81 Sn ppm 1	ME- MS81 Sr ppm 0.1
STANDARDS																
LAT- CS9																
Target Range - Lower Bound																
Upper Bound																
LKSD- 2		4.12	1.98	17.1	8.35	7.1	1.41	69.6	0.59	10.8	58.7	16.05	83.1	10.85	3	283
Target Range - Lower Bound		3.93	1.68	14.8	7.91	6.1	1.33	60.7	0.53	7.0	52.1	14.35	76.3	9.87	3	198.0
Upper Bound		4.87	2.12	18.4	9.77	7.9	1.65	75.3	0.67	9.0	63.9	17.65	93.7	12.15	7	242
MW- 1																
Target Range - Lower Bound																
Upper Bound																
NCSDC28006																
Target Range - Lower Bound																
Upper Bound																
SARM- 39																
Target Range - Lower Bound																
Upper Bound																
STSD- 1		3.58	1.60	11.9	6.20	5.9	1.24	31.2	0.52	6.5	31.8	7.86	29.8	6.83	3	191.5
Target Range - Lower Bound		3.51	1.41	10.5	6.28	5.3	1.19	26.5	0.50	5.4	25.1	6.83	26.8	5.37	2	153.0
Upper Bound		4.35	1.79	13.1	7.78	6.9	1.47	33.5	0.64	7.0	30.9	8.41	33.2	6.63	6	187.0
BLANKS																
BLANK		<0.03	0.03	0.1	<0.05	<0.2	0.01	1.0	0.01	<0.2	0.1	0.05	<0.2	0.05	<1	0.1
Target Range - Lower Bound		<0.03	<0.03	<0.1	<0.05	<0.2	<0.01	<0.5	<0.01	<0.2	<0.1	<0.03	<0.2	<0.03	<1	<0.1
Upper Bound		0.06	0.06	0.2	0.10	0.4	0.02	1.0	0.02	0.4	0.2	0.06	0.4	0.06	2	0.2
BLANK																
Target Range - Lower Bound																
Upper Bound																

Comments: Please note the S result for sample id TN1004 for ME- XRF21n is 6.01%

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QC CERTIFICATE OF ANALYSIS BR12196124

Sample Description	Method / Analyte / Units / LOR	ME- MS81 Ta ppm 0.1	ME- MS81 Tb ppm 0.01	ME- MS81 Th ppm 0.05	ME- MS81 Tl ppm 0.5	ME- MS81 Tm ppm 0.01	ME- MS81 U ppm 0.05	ME- MS81 V ppm 5	ME- MS81 W ppm 1	ME- MS81 Y ppm 0.5	ME- MS81 Yb ppm 0.03	ME- MS81 Zr ppm 20
STANDARDS												
LAT- CS9												
	Target Range - Lower Bound											
	Upper Bound											
LKSD- 2		0.7	1.23	11.35	<0.5	0.64	7.03	78	3	47.5	3.90	280
	Target Range - Lower Bound	0.6	1.25	12.00	<0.5	0.58	6.79	63	2	39.1	3.57	200
	Upper Bound	1.0	1.55	14.80	1.5	0.74	8.41	91	6	48.9	4.43	310
MW- 1												
	Target Range - Lower Bound											
	Upper Bound											
NCSDC28006												
	Target Range - Lower Bound											
	Upper Bound											
SARM- 39												
	Target Range - Lower Bound											
	Upper Bound											
STSD- 1		0.4	0.96	3.29	<0.5	0.60	7.09	99	2	39.5	3.28	240
	Target Range - Lower Bound	0.2	0.98	3.28		0.50	7.15	83	<1	37.3	3.57	170
	Upper Bound	0.6	1.22	4.12		0.64	8.85	113	5	46.7	4.43	270
BLANKS												
BLANK		0.1	0.01	0.06	<0.5	<0.01	<0.05	<5	<1	<0.5	<0.03	<20
	Target Range - Lower Bound	<0.1	<0.01	<0.05	<0.5	<0.01	<0.05	<5	<1	<0.5	<0.03	<20
	Upper Bound	0.2	0.02	0.10	1.0	0.02	0.10	10	2	1.0	0.06	40
BLANK												
	Target Range - Lower Bound											
	Upper Bound											

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Sample Description	Method	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n	ME- XRF21n
	Analyte	Al2O3	As	Ba	CaO	Cl	Co	Cr2O3	Cu	Fe	K2O	MgO	Mn	Na2O	Ni	P
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.01	0.001	0.001	0.01	0.001	0.001	0.0006	0.001	0.01	0.001	0.01	0.001	0.005	0.001	0.001
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
TN1003		4.50	0.001	0.031	7.95	0.083	0.002	0.0050	0.002	30.99	0.493	0.65	1.090	0.327	0.006	0.050
DUP		4.51	<0.001	0.030	7.97	0.079	0.002	0.0035	0.002	31.07	0.492	0.65	1.090	0.313	0.006	0.050
Target Range - Lower Bound		4.45	<0.001	0.029	7.87	0.076	<0.001	0.0034	<0.001	30.86	0.479	0.63	1.060	0.299	0.005	0.048
Upper Bound		4.56	0.002	0.032	8.05	0.086	0.003	0.0051	0.003	31.20	0.506	0.67	1.120	0.341	0.007	0.052
TN1006		4.68	0.001	0.468	0.70	0.071	0.002	0.0055	0.002	36.01	0.602	0.52	0.279	0.430	0.006	0.086
DUP		4.70	0.001	0.471	0.70	0.070	0.002	0.0056	0.002	36.01	0.599	0.53	0.281	0.434	0.007	0.086
Target Range - Lower Bound		4.63	<0.001	0.457	0.68	0.066	<0.001	0.0047	<0.001	35.82	0.584	0.51	0.272	0.405	0.005	0.083
Upper Bound		4.75	0.002	0.482	0.72	0.075	0.003	0.0064	0.003	36.20	0.617	0.54	0.288	0.459	0.008	0.089

Comments: Please note the S result for sample id TN1004 for ME-XRF21n is 6.01%

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QC CERTIFICATE OF ANALYSIS BR12196124

Sample Description / Method / Analyte / Units / LOR	ME- XRF21n Pb % 0.001	ME- XRF21n S % 0.001	ME- XRF21n SiO2 % 0.01	ME- XRF21n Sn % 0.001	ME- XRF21n Sr % 0.001	ME- XRF21n TiO2 % 0.01	ME- XRF21n V % 0.001	ME- XRF21n Zn % 0.001	ME- XRF21n Zr % 0.001	ME- GRA05 LOI % 0.01	ME- MS81 Ba ppm 0.5	ME- MS81 Ce ppm 0.5	ME- MS81 Cr ppm 10	ME- MS81 Cs ppm 0.01	ME- MS81 Dy ppm 0.05
DUPLICATES															
ORIGINAL										-0.12					
DUP										-0.15					
Target Range - Lower Bound										-0.15					
Upper Bound										-0.12					
TN1003	0.001	4.10	23.6	0.001	0.169	0.25	0.004	0.003	0.012						
DUP	0.002	4.12	23.8	0.002	0.171	0.25	0.004	0.003	0.012						
Target Range - Lower Bound	<0.001	4.01	23.6	<0.001	0.161	0.23	0.003	0.002	0.010						
Upper Bound	0.002	4.21	23.8	0.002	0.180	0.27	0.005	0.004	0.014						
TN1006	<0.001	0.262	32.2	<0.001	0.057	0.37	0.010	0.010	0.033		4670	34.4	30	1.31	2.99
DUP	<0.001	0.260	32.2	<0.001	0.057	0.38	0.010	0.010	0.030		4590	33.7	30	1.20	2.84
Target Range - Lower Bound	<0.001	0.253	32.0	<0.001	0.053	0.36	0.009	0.009	0.029		4400	31.8	20	1.18	2.72
Upper Bound	0.002	0.269	32.4	0.002	0.061	0.39	0.012	0.012	0.034		4860	36.3	40	1.33	3.11

Comments: Please note the S result for sample id TN1004 for ME-XRF21n is 6.01%

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QC CERTIFICATE OF ANALYSIS BR12196124

Sample Description	Method / Analyte / Units / LOR	ME- MS81 Er ppm 0.03	ME- MS81 Eu ppm 0.03	ME- MS81 Ga ppm 0.1	ME- MS81 Gd ppm 0.05	ME- MS81 Hf ppm 0.2	ME- MS81 Ho ppm 0.01	ME- MS81 La ppm 0.5	ME- MS81 Lu ppm 0.01	ME- MS81 Nb ppm 0.2	ME- MS81 Nd ppm 0.1	ME- MS81 Pr ppm 0.03	ME- MS81 Rb ppm 0.2	ME- MS81 Sm ppm 0.03	ME- MS81 Sn ppm 1	ME- MS81 Sr ppm 0.1
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
TN1003																
DUP																
Target Range - Lower Bound																
Upper Bound																
TN1006		1.88	0.92	6.7	3.37	8.6	0.68	18.2	0.31	4.7	16.5	4.03	21.6	3.83	1	661
DUP		1.86	0.94	6.4	3.29	7.7	0.66	18.6	0.29	4.3	16.1	4.18	21.2	3.80	1	644
Target Range - Lower Bound		1.75	0.85	6.1	3.11	7.5	0.63	17.0	0.28	4.1	15.4	3.87	20.1	3.59	<1	620
Upper Bound		1.99	1.01	7.0	3.55	8.8	0.71	19.8	0.33	4.9	17.2	4.34	22.7	4.04	2	685

Comments: Please note the S result for sample id TN1004 for ME-XRF21n is 6.01%

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QC CERTIFICATE OF ANALYSIS BR12196124

Sample Description	Method / Analyte / Units / LOR	ME- MS81 Ta ppm 0.1	ME- MS81 Tb ppm 0.01	ME- MS81 Th ppm 0.05	ME- MS81 Tl ppm 0.5	ME- MS81 Tm ppm 0.01	ME- MS81 U ppm 0.05	ME- MS81 V ppm 5	ME- MS81 W ppm 1	ME- MS81 Y ppm 0.5	ME- MS81 Yb ppm 0.03	ME- MS81 Zr ppm 20
DUPLICATES												
ORIGINAL												
DUP												
Target Range - Lower Bound												
Upper Bound												
TN1003												
DUP												
Target Range - Lower Bound												
Upper Bound												
TN1006		0.3	0.51	3.52	<0.5	0.30	3.22	115	1	21.5	1.86	370
DUP		0.3	0.53	3.48	<0.5	0.29	3.18	118	1	20.5	1.72	330
Target Range - Lower Bound		0.2	0.46	3.28	<0.5	0.27	2.99	106	<1	19.5	1.67	310
Upper Bound		0.4	0.56	3.73	1.0	0.32	3.41	127	2	22.6	1.91	390

Comments: Please note the S result for sample id TN1004 for ME-XRF21n is 6.01%

BR12196124 - Finalized
CLIENT : "POSFAM - Posar Family Superannuation Pty Ltd"
# of SAMPLES : 6
DATE RECEIVED : 2012-08-23 DATE FINALIZED : 2012-08-31
PROJECT : " "
CERTIFICATE COMMENTS : "Please note the S result for sample id TN1004 for ME-XRF21n is 6.01% "
PO NUMBER : " "

	ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21
SAMPLE	Al2O3	As	Ba	CaO	Cl	Co	Cr2O3	Cu
DESCRIPTI	%	%	%	%	%	%	%	%
TN1001	6.09	0.001	0.021	5.3	0.126	0.002	0.0057	0.002
TN1002	5.29	0.001	0.804	0.76	0.032	0.002	0.0033	0.002
TN1003	4.5	0.001	0.031	7.95	0.083	0.002	0.005	0.002
TN1004	4.82	<0.001	0.039	11.2	0.68	0.002	0.0036	0.002
TN1005	4.08	0.002	0.13	0.55	0.044	0.002	0.0025	0.001
TN1006	4.68	0.001	0.468	0.7	0.071	0.002	0.0055	0.002

ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21
Fe	K2O	MgO	Mn	Na2O	Ni	P	Pb	S
%	%	%	%	%	%	%	%	%
33.23	0.462	0.51	0.531	0.256	0.006	0.055	<0.001	2.75
33.04	0.617	0.56	0.24	0.345	0.007	0.104	<0.001	0.343
30.99	0.493	0.65	1.09	0.327	0.006	0.05	0.001	4.1
25	0.506	0.65	0.616	0.864	0.006	0.045	0.003	>5.0
39.3	0.488	0.46	0.649	0.355	0.006	0.096	<0.001	0.126
36.01	0.602	0.52	0.279	0.43	0.006	0.086	<0.001	0.262

ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21	ME-XRF21	ME-GRA05	ME-MS81
SiO2	Sn	Sr	TiO2	V	Zn	Zr	LOI	Ba
%	%	%	%	%	%	%	%	ppm
25.5	0.001	0.078	0.39	0.007	0.005	0.013	9.33	270
35.2	<0.001	0.073	0.35	0.012	0.005	0.026	7.14	7740
23.6	0.001	0.169	0.25	0.004	0.003	0.012	9.27	378
24.5	0.002	0.37	0.27	0.009	0.004	0.013	8.93	449
28.9	<0.001	0.049	0.34	0.012	0.005	0.027	6.87	1525
32.2	<0.001	0.057	0.37	0.01	0.01	0.033	7.03	4670

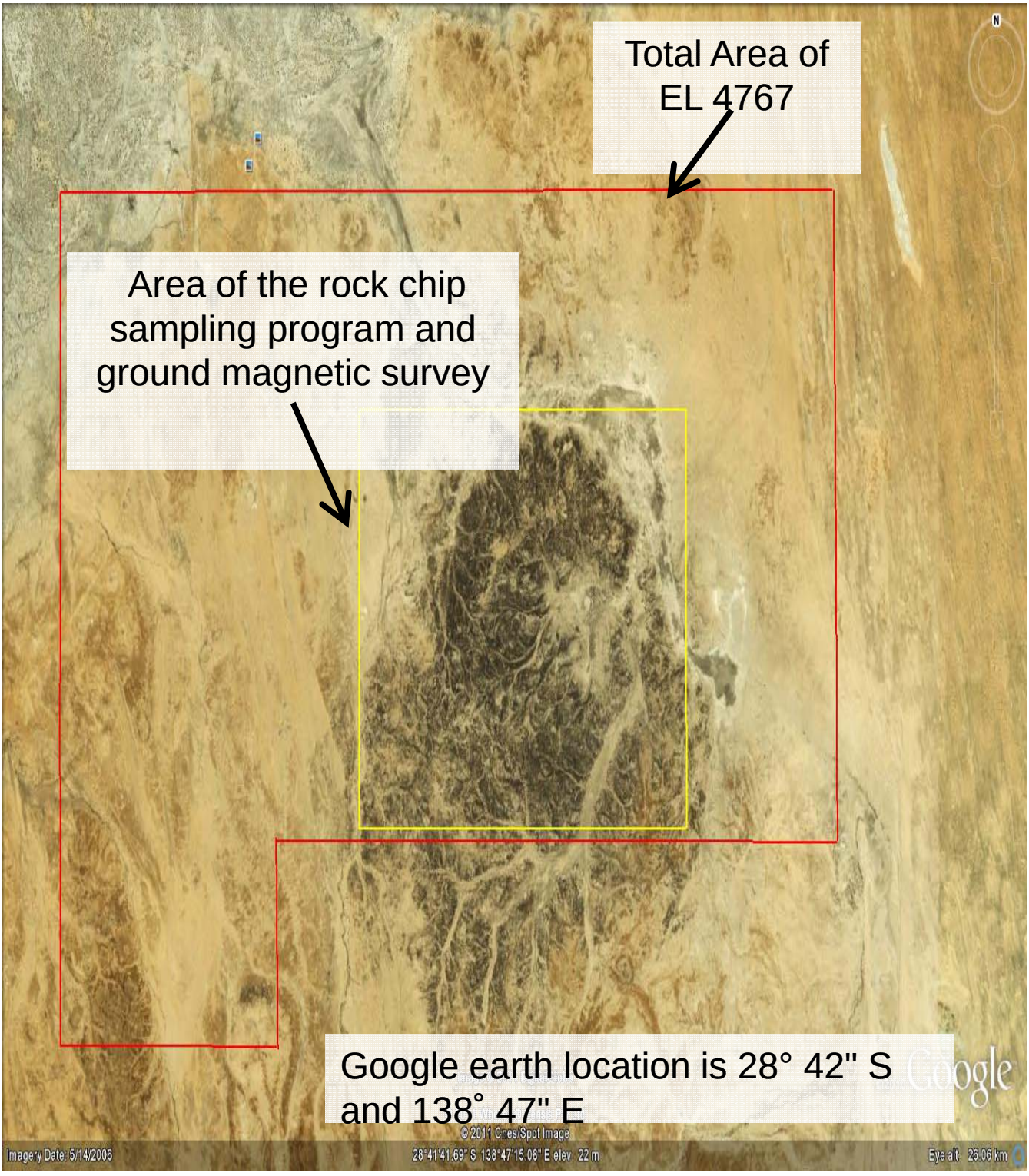
ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm
23.6	40	1.3	2.07	1.31	0.7	8.2	2.07	3.1
38.9	30	1.37	3.68	2.13	1.09	7.2	3.97	7
17.8	30	1.17	1.61	0.99	0.55	7	1.72	2.3
17.4	20	1.01	1.73	1.09	0.56	6.5	1.81	2.6
36.6	30	1.01	3.09	1.93	0.95	6	3.5	7
34.4	30	1.31	2.99	1.88	0.92	6.7	3.37	8.6

ME-MS81 Ho ppm	ME-MS81 La ppm	ME-MS81 Lu ppm	ME-MS81 Nb ppm	ME-MS81 Nd ppm	ME-MS81 Pr ppm	ME-MS81 Rb ppm	ME-MS81 Sm ppm	ME-MS81 Sn ppm
0.42	13.1	0.17	4.3	11.1	2.68	18.6	2.26	1
0.77	22.3	0.32	4.2	20.6	5.01	22.7	4.59	1
0.37	10.7	0.15	2.9	8.5	2.01	18	1.91	1
0.39	9.6	0.15	2.9	9	2.13	17.8	1.99	1
0.72	20	0.32	4	17	4.26	17.1	3.56	1
0.68	18.2	0.31	4.7	16.5	4.03	21.6	3.83	1

ME-MS81 Sr ppm	ME-MS81 Ta ppm	ME-MS81 Tb ppm	ME-MS81 Th ppm	ME-MS81 Tl ppm	ME-MS81 Tm ppm	ME-MS81 U ppm	ME-MS81 V ppm	ME-MS81 W ppm
879	0.3	0.38	3.18	<0.5	0.23	2.09	88	1
818	0.3	0.63	3.71	<0.5	0.36	2.28	144	1
1870	0.2	0.28	2	<0.5	0.2	3.47	64	<1
3650	0.2	0.27	2.39	<0.5	0.2	7.48	97	<1
595	0.3	0.54	3.14	<0.5	0.31	5.7	143	1
661	0.3	0.51	3.52	<0.5	0.3	3.22	115	1

ME-MS81 Y ppm	ME-MS81 Yb ppm	ME-MS81 Zr ppm
13.4	1.2	130
25.1	1.93	300
11.8	0.96	100
11	1.08	110
22.6	1.85	310
21.5	1.86	370

Tenement Map & Exploration Target



Exploration Licence Details

Licensee:	Posar Family Superannuation Pty Ltd
EL Number :	4767
Project Name:	Troopers Nob
Exploration Target:	Fe (Iron Ore)
Grant Date:	11th July 2011
Grant Term :	2 years
General Location: from within	Located approximately 120 km North Maree - the tenement area is situated 14km from Etadunna Station Homestead, South Australia
Tenement Area:	Total Tenement area is 277km2
Exploration/ Mining History :	Geological Survey of South Australia, Explanatory Notes on Kopperamanna Area which details the extensive ferruginisation of the Winton Formation which appears to be related to the base of the “Stuart Pedoderm”

Exploration Target: Iron Ore and Rare Earth Minerals

Expenditure Statement

Posar Family Superannuation Fund

EL4767 Expenditure Reporting Period from 11.07.11 to 31.08.12

Expenses			
	Field Contractors	$	42,260.00
	Geological	$	30,247.19
	Analytical	$	45,189.60
	Land Access	$	2,742.50
	Tenement Rent	$	5,840.05
	Travel & Accommodation	$	8,968.64
	Vehicle/Equipment Hire/Fuel	$	10,193.69
Total Expenses		**$**	**145,441.67**

Cumulative Expenditure Report

Posar Family Superannuation Fund

EL4767 Total Cumulative Expenditure Period from 11.07.11 to 31.08.12

Expenses			
	Field Contractors	$	42,260.00
	Geological	$	30,247.19
	Analytical	$	45,189.60
	Land Access	$	2,742.50
	Tenement Rent	$	5,840.05
	Travel & Accommodation	$	8,968.64
	Vechicle/Equipment Hire/Fuel	$	10,193.69
	Administration	$	16,471.26
Total Expenses		**$**	**161,912.93**

Conclusions

- Surface sample assay results have delineated areas where the average iron content of this material may be expected to be consistently in excess of 50% Fe, which may be considered as ore grade for a surficial mining operation, as detailed in Euro Explorations Interpretation Report dated November 2011

- Depth of exploration target tonnage of materials needs to be quantified

- Given the Analytical Results, further investigation and testing is warranted within the Tenement area for other host minerals and Rare Earths

Typical Landscape of Tenement Area

POSAR FAMILY SUPER FUND
PO BOX 271
INNISFAIL QLD 4860

8th February, 2014

Nella Petruzzella
EL Reporting Officer - Exploration Assessment
Minerals and Energy Resources Group
(DMITRE)
GPO Box 1264
ADELAIDE SA 5001

Dear Nella

RE: EL4767 Final Technical Report

I would like to submit and advise that there has been Nil work conducted on EL4767 during the 12 month period ending 10.07.2013.

Regards

S Posar

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Sandra Posar
Posar Family Super Fund