



10<sup>th</sup> September 2008  
Company Announcements Platform  
Australian Securities Exchange

## EXPLORATION UPDATE AT FIFIELD NSW

### - Residual soil sampling program identifies “Eastern Shear Zone” at Platina-Gillenbine Pt area

The Company has continued systematic exploration within the immediate Fifield district at the various mineralised prospects that have now been identified and provides an update on work programs including the Pt prospects at “Platina-Gillenbine”, the emerging Au and base metal prospects at “Eclipse North” and “Sorpresa”.

#### Highlights of the Current Work Program

- An “**Eastern Shear Zone**” within the Platina-Gillenbine Pt area has been determined using extensive residual soil sampling, auger drilling and mapping and is plotted as **Pt soil contours over a 1,000m strike length**.
- **Further trenching at “Pit 1” Pt bulk sampling area** indicates that coarse Pt is contained in underlying bedrock, within an area that is now seen to contain complex geology.
- **Rock chip assays** on surface float combined with mapping have identified a significant Au and base metal anomaly at “Eclipse North”. **The best rock specimen yielded a repeatable assay of 18g/t Au.**
- **Multi element assay data and an extractable cyanide leach test of the contained Au were performed on the “Sorpresa” prospect** mineralised section from the recent RC drill program (Fi47) and confirm that the Au appears to be highly extractable.

#### 1. Platina-Gillenbine Area – “Eastern Shear Zone” Coarse Grain Platinum Anomaly in Residual Soil

*The new coarse platinum in soil anomaly* recently identified south east of the immediate Platina-Gillenbine work area was mapped into coherent Pt contours and has been named the “**Eastern Shear Zone**” Pt anomaly. It is *continuous over a strike length of 1,000m*. The Pt contours within the residual soil are parallel in orientation with the subsoil Pt anomaly at Platina-Gillenbine, now named the “Central Shear Zone” (which was defined in 2006).

More than 140 soil samples at 20kgs each, were used to define the Pt mineralisation in areas predominantly free from past Pt surface mining. The subsoil clay layer was extensively sampled with 100 new auger holes to further define the mineralisation.

The Eastern Shear Zone extends into the Company owned freehold land area, where it becomes complex in orientation and structure. It appears to also have influence within the “Pit 1” sampling area, and this is still being evaluated for the significance of the Pt position in the bedrock.

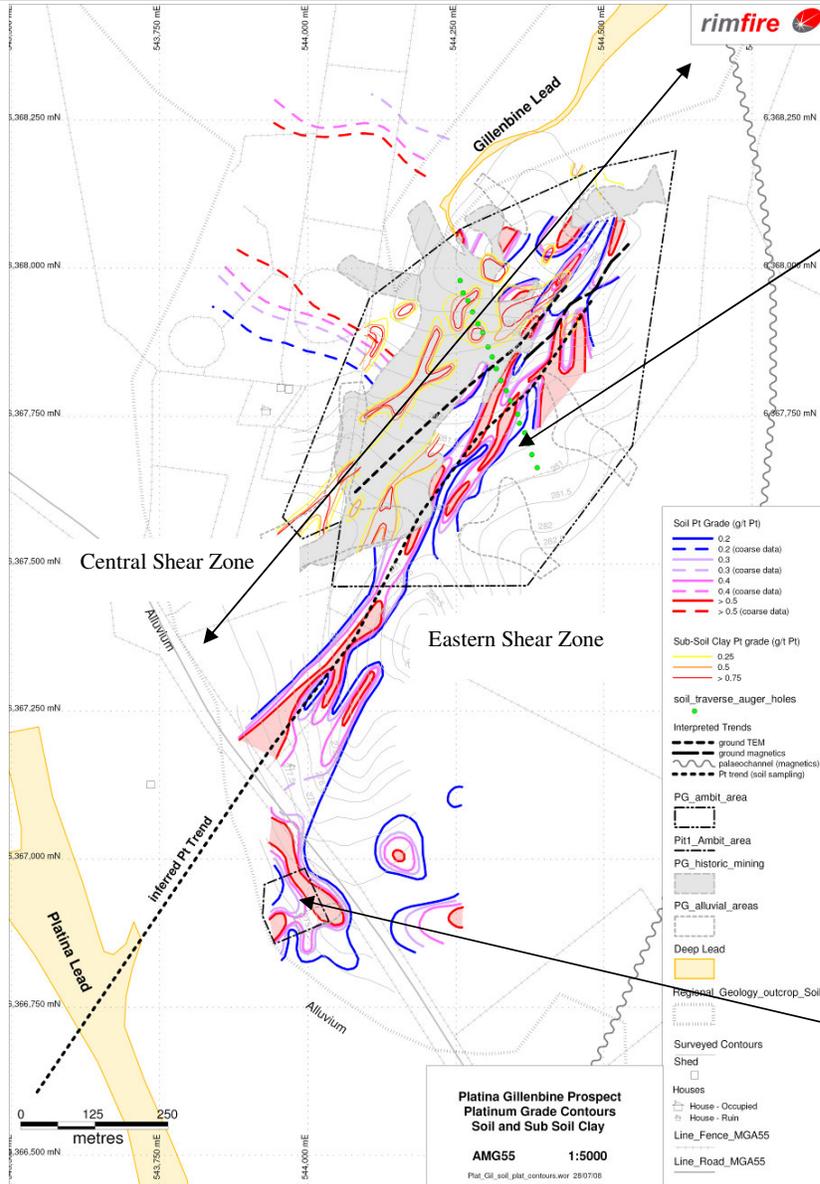


Work also continued on “Pit 1” for sampling for Pt in shear zones. Trenching has continued to identify the complex nature of the geology and coarse grain Pt has been recovered from the bedrock position in a number of places. Mapping and interpretation are ongoing, but “Pit 1” is still considered an important area, linking the shear zone system, at Platina-Gillenbine to the gradation of the near surface bedrock position to the alluvium covered valley containing the Platina Deep Lead system.

*The Company is refining a strategy for establishing an application for a “bulk sampling assessment area” at Platina-Gillenbine, that would allow determination of Pt grade and distribution within the three key layers at this area, namely the soil profile, sub soil clay and the weathered bedrock, including the important shear zones and brecciated areas that are now known to exist.*

The Company also completed 14 soil layer test pits to establish the Pt grade variations with depth. These pits have provided a better understanding of Pt movements between bedrock and soil at Platina-Gillenbine.

### Platina-Gillenbine Updated Work Area with Pt Grade Contours and Interpretation



Auger Drill use at Platina-Gillenbine & extensive soil sampling

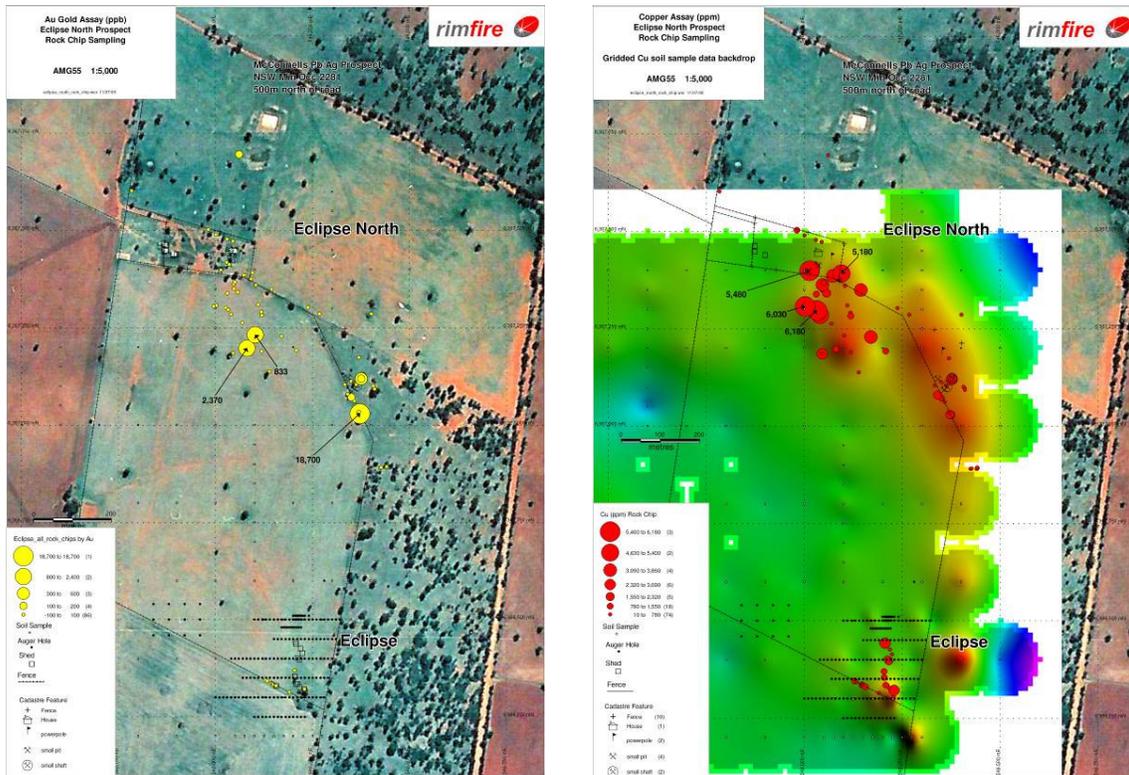


Trench exposure on Pit 1, sampled for Pt

## 2. Eclipse North Area – Au and Base Metal Prospect

Extensive rock float examination, rock chipping and surface mapping of subcrop/outcrop at Eclipse North (approx. 1km north of Eclipse along the eastern rift margin at Fifiel), has revealed the potential for a significant Au bearing zone. Assays of an initial set of specimen rocks has shown an elevation in Au and base metal, **including one high grade rock sample yielding 18g/t** (FiR312). The full set of results and assay method are shown in Table 1.

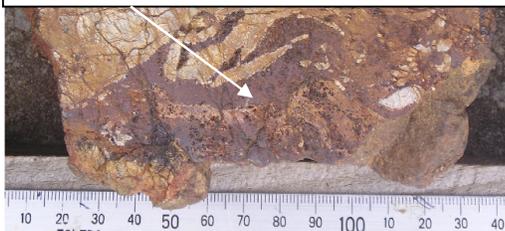
## “Eclipse North” Reconnaissance Surface Sampling, Au and Cu Assays



The high Au area at “Eclipse North” contains numerous pieces of breccia with sulphide gossan disseminated and also in veins. The high Au assay rock sample is interpreted as pyrite gossan float and contained fine visible gold. **The strike length of gossan & brecciation extends over approximately 500m and is open to the north (under soil).**



New Rock Chip Sample FiR203 sawn section of breccia showing massive gossan veining.



The area further north again has several groups of historic workings with similar breccias, silicification and brecciated quartz veining, all with varying amounts of gossan.

This Au mineralisation is not a VMS style as at Eclipse South. It is hydrothermal-mesothermal style Au and base metals, associated with shearing and brecciation along a structural zone, possibly associated with a small blind high level diorite intrusive.

**The mineralisation area looks similar to Sorpresa but the breccia zone could be wider, at 20~30m,** but is yet to be determined. Both the breccia and vein quartz contain sulphides disseminated in fine veinlets and in more massive veins up to several cm thick. The lumps of massive gossan float seen at this initial stage appear to have originated from these thicker veins.

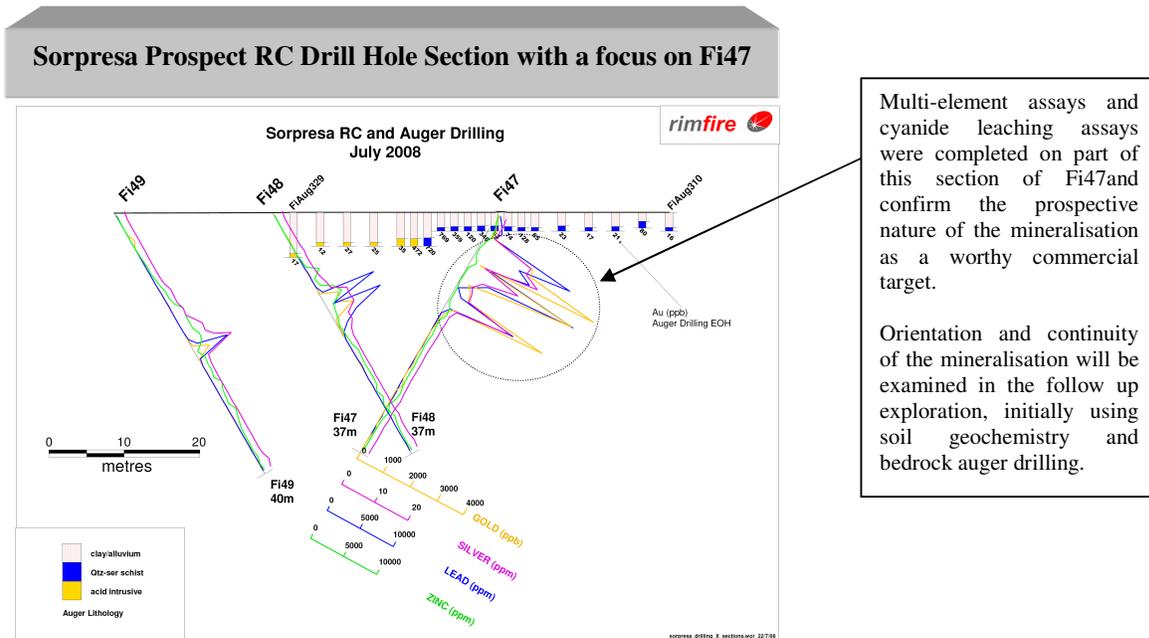
Whilst exploration is still preliminary, the results are encouraging. An additional set of samples and further mapping interpretation is currently being undertaken with results to follow.

Surface geochemistry has advanced the prospect so that the next stage of exploration to be undertaken will involve intensive auger drilling into the defined cohesive zone of gossan (weathered sulphide mineralization) and quartz veining coincident with the Au geochemical anomaly.

### 3. Sorpresa Prospect Extractable Au Analysis

As previously reported the gold, silver, lead and zinc mineralisation intersected in the recent RC drill program is still not characterized or assigned to a particular geological model as yet. However, the Company has performed multi-element assays to determine any unique character of the mineralisation, and cyanide leach over a 6 to 24 hour period to determine the “extractable nature of the Au mineralisation”. *The results indicate the mineralisation has readily extractable Au (>90% in 6 hours), and has minimal contaminant elements, therefore representing a suitable commercial target mineralisation.*

The next phase of the exploration program will now focus on determining the strike and extent of the mineralised zone. This will be done using soil geochemistry and auger drilling. Au and Pb also occur in historic workings 700m to the NE, and that these are adjacent to important historic mined platinum soil surface workings. Rimfire intends to examine the bedrock geochemistry between Sorpresa and these other workings.



### Project and Mineralisation Background – Fifield NSW

To date, systematic exploration by Rimfire within the immediate Fifield region has continued to develop a wide variety of mineralisation prospects with strong surface expression, which have a highly relevant geological context with favourable development criteria.

There is a significant variation in mineralisation styles at Fifield, which includes Au, Pt and Cu/Base Metal prospects and these occur across a zone of less than 10km. This observation also provides further support to the interpretation of the region as being a complex volcanic rift setting, with evidence for multiple, polymetallic mineralisation events associated with sub-volcanic intrusives, shearing and brecciation at various scales.

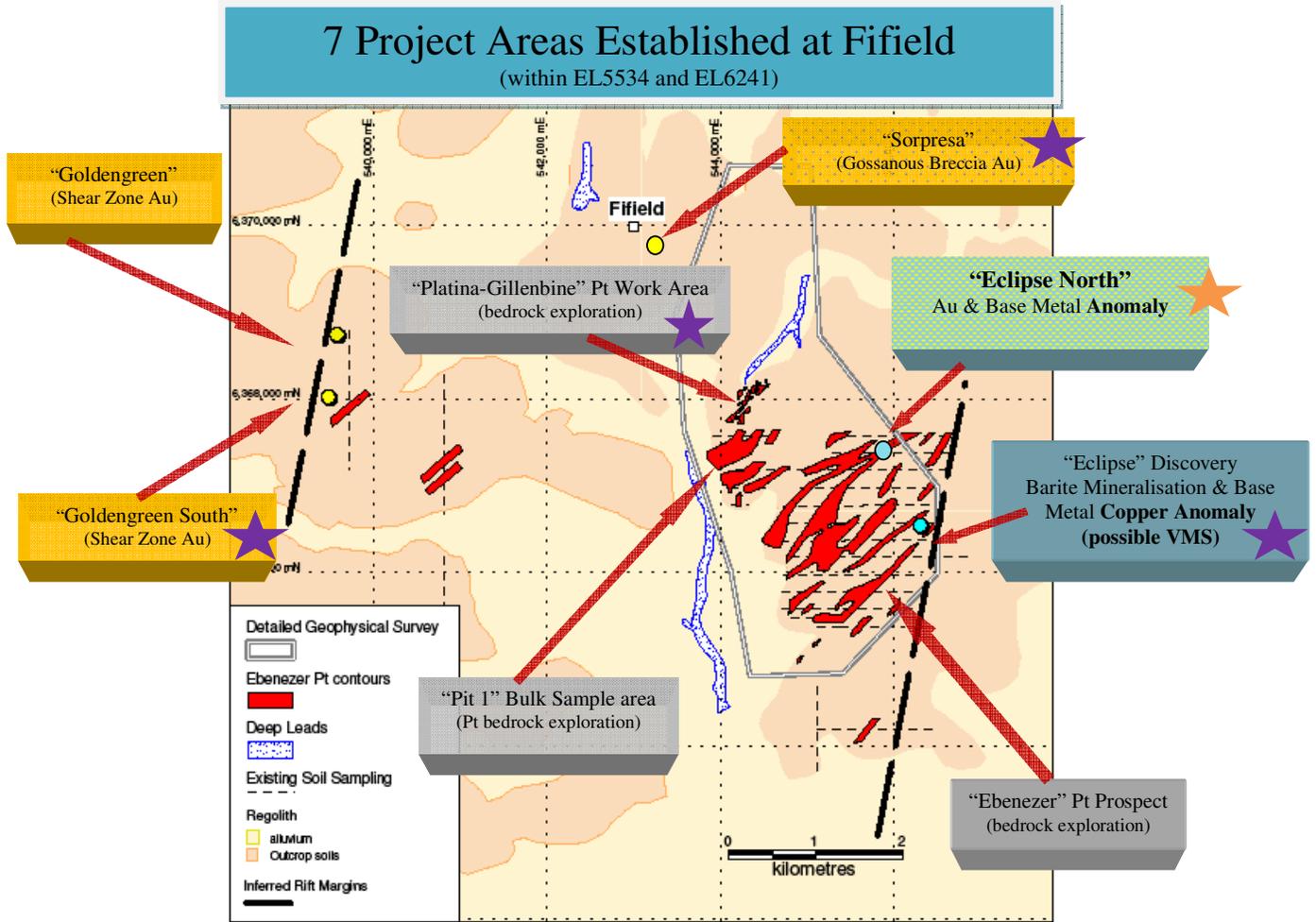
*The major mineralisation focus for exploration by the Company at Fifield is coarse grain Platinum.*

A key feature of the exploration landscape at Fifield NSW is the minimal outcrop available for examination. However, in many instances the depth to bedrock is less than two metres, so a combination of soil geochemistry, auger drilling and trenching to bedrock is an ideal way to prospect for the evidence of significant mineralisation in most instances.

Historic Pt soil mining at Fifield (circa. 1900~1930) has disturbed the most exposed areas of the land surface, thus requiring a customized soil sampling technique in many instances. The large scale of the Pt mineralisation at Fifield has meant that the Company has needed considerable near surface sample processing to define representative areas of bedrock Pt.

**Commodity Pricing**

The Platinum and Gold prices have both declined from their historically high levels of recent times, in volatile trade. Currently, the price of Platinum closed in New York at Ask, US\$1,330 per oz as at 8<sup>th</sup> September 2008 ([www.kitco.com](http://www.kitco.com)).



★ April RC drill program completed

★ July Rock Chip program completed

Yours faithfully

**JOHN KAMINSKY**  
Executive Chairman  
Rimfire Pacific Mining NL

*The information in the report to which this statement is attached that relates to Exploration Results is compiled by Mr Colin Plumridge, who is a Member of The Australian Institute of Mining and Metallurgy, with over 30 years experience in the mineral exploration and mining industry. Mr Plumridge is employed by Plumridge & Associates Pty. Ltd. Mr Plumridge has sufficient experience, which is relevant to the style of mineralization and type of deposit under consideration and to the activity, which he is undertaking to qualify as a Competent Person as defined in the 2004 edition of the “Australian Code for Reporting of Mineral Resources and Ore reserves”. Mr Plumridge consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*

**TABLE 1****Fifield Rock Chip Samples Eclipse North - Assays August 2008 Results**

Sample UNITS	Easting (AMG55)	Northing (AMG55)	Au(AR) ppb	Au(AR) ppb	Pb ppm	Ag ppm	Cu ppm	Zn ppm	Mn ppm	Co ppm	Ni ppm	As ppm
FIR300	546104	6367360	5		1	0.1	281	4	187	2	4	4
FIR301	546103	6367360	2	2	3450	1.1	207	188	3380	22	48	262
FIR302	546425	6366890	1		92	0.25	23	5	187	2	5	98
FIR303	546424	6366890	9		30	0.1	13	2	156	2	4	147
FIR304	546426	6366891	8		127	0.1	28	13	533	4	4	249
FIR304 Rpt	546426	6366891	7		130	0.1	24	10	529	4	4	239
FIR305	546439	6366890	90	88	73	0.25	290	28	139	9	12	746
FIR306	546440	6366894	34		166	0.7	135	91	182	8	12	215
FIR307	546442	6366892	11		74	0.6	102	48	293	8	15	200
FIR307 Rpt	546442	6366892	10		76	0.6	105	48	310	10	13	195
FIR308	546409	6367097	5		3	-0.05	16	12	208	5	5	18
FIR309	546406	6367101	7		3	-0.05	20	3	165	7	5	35
FIR310	546410	6367093	32		28	0.4	494	3	386	12	14	432
FIR311	546374	6367029	596		12	0.3	1790	8	1050	29	9	277
FIR312	546372	6367029	18700	17300	39	4.9	1580	3	353	5	3	32
FIR313	546369	6367034	82		7	0.6	491	7	280	6	7	31
FIR314	546358	6367062	53		11	0.15	772	48	1130	13	17	130
FIR315	546350	6367071	161		69	0.3	993	176	998	15	17	686
FIR316	546340	6367079	76		10	0.15	2230	44	13500	143	53	39
FIR317	546333	6367105	11	10	7	0.2	313	7	799	17	17	21
FIR318	546057	6367342	8		13	1.2	2270	200	55700	659	211	129
FIR319	546080	6367198	143		131	0.8	744	196	1000	18	30	271
FIR320	546080	6367197	2370	2480	38	1.7	906	66	484	17	42	263
FIR321	546045	6367185	3		7	0.2	230	74	12200	55	68	51
FIR322	546045	6367185	46		17	0.1	532	76	979	23	34	173
FIR323	546045	6367185	7		32	0.1	53	7	539	6	9	8
FIR324	546045	6367185	28	26	1910	3.85	1040	118	1800	44	47	209
FIR325	546045	6367185	22		22	0.25	2350	17	1180	9	23	238
FIR326	546045	6367185	2		8	0.5	514	674	11900	103	34	112
FIR327	546139	6367138	30		60	0.1	758	121	646	22	42	92
FIR328	546139	6367138	35		11	0.25	342	17	2650	20	39	88
FIR329	546119	6367189	8		60	0.25	167	83	16100	45	30	112
FIR330	546102	6367232	833	878	199	0.3	672	83	7210	9	13	113
FIR331	546070	6367263	7		1210	0.3	129	266	9010	36	15	11
FIR332	546040	6367285	3		18	1	4980	387	85800	1630	416	68
FIR333	546040	6367285	8		127	0.9	2400	326	34000	468	211	43
FIR334	546032	6367297	6	10	20	4.5	6180	330	80200	1070	583	23
FIR335	546026	6367302	2		14	0.45	363	27	14100	58	45	52
FIR336	546002	6367307	9		33	2.3	6030	920	104000	2140	856	25
FIR336 Rpt	546002	6367307	9		33	2.2	6190	927	103000	2140	861	26
FIR337	545995	6367305	9		34	1.2	650	288	21200	269	93	79
FIR338	546030	6367339	47		1750	2.75	1290	434	16600	294	60	378
FIR338 Rpt	546030	6367339	46		1690	2.55	1310	440	16900	300	57	383
FIR339	546047	6367351	5		160	1.6	1190	311	19800	363	233	41
FIR340	546046	6367363	26		767	7.3	3500	351	92200	2580	261	462
FIR341	546050	6367367	4		1600	2.1	1530	339	48100	504	139	25
FIR342	546110	6367310	63	71	1440	13	237	8	857	9	9	524
FIR343	546118	6367291	19		235	5.1	182	30	3050	65	38	1030
FIR344	546119	6367282	5		19	0.35	1230	44	35500	52	162	66
FIR345	546170	6367228	4		84	2.9	3550	221	81600	1390	326	161
FIR346	546077	6367386	7		25	0.6	918	411	31000	410	89	156
FIR347	546073	6367386	54	55	216	3.1	3790	2130	67300	815	468	112
FIR348	546035	6367413	2		31	0.1	235	128	2150	31	18	22

**Fifield Rock Chip Samples Eclipse North - Assays August 2008 Results**

Sample UNITS	Easting (AMG55)	Northing (AMG55)	Au(AR) ppb	Au(AR) ppb	Pb ppm	Ag ppm	Cu ppm	Zn ppm	Mn ppm	Co ppm	Ni ppm	As ppm
FIR349	546035	6367413	2		25	0.1	295	201	802	16	15	31
FIR350	546035	6367413	3		16	0.1	370	668	1280	25	22	36
FIR351	546035	6367413	3		18	0.15	357	310	2040	44	25	39
FIR351 Rpt	546035	6367413	3		17	0.1	355	302	2000	43	25	40
FIR352	546029	6367418	5		81	0.3	309	417	5750	71	57	146
FIR353	546014	6367399	2		252	0.3	132	98	261	6	9	30
FIR354	546014	6367399	3		121	0.25	225	148	526	8	12	48
FIR354 Rpt	546014	6367399	2		118	0.25	224	148	547	10	11	46
FIR355	546014	6367399	38		7810	6.9	5480	2130	79800	840	657	411
FIR356	545981	6367503	52	53	718	0.2	1010	245	2890	24	38	211
FIR357	546001	6367490	7		4	-0.05	16	8	361	4	5	17
FIR358	546030	6367478	1		111	0.1	86	37	1460	18	23	8
FIR359	546045	6367473	-1		43	0.1	152	86	5650	36	18	32
FIR360	546045	6367473	-1		1	-0.05	73	21	502	17	48	1
FIR361	546045	6367473	3		11	0.1	152	210	1690	23	54	12
FIR362	546095	6367392	21		315	4.75	5180	634	108000	1570	352	112
FIR363	546092	6367376	10		86	1	676	72	19800	306	98	272
FIR364	546145	6367349	5	6	721	3.1	3590	598	65500	1660	305	70
FIR365	546238	6367303	4		258	0.3	409	1210	10400	57	25	138
FIR366	546267	6367286	5		1250	0.4	81	50	930	10	6	20
FIR367	546401	6367286	11		25	0.1	69	10	1030	22	14	73
FIR368	546362	6367104	18		6	0.1	633	50	9580	62	41	52
FIR369	546362	6367104	10		10	0.1	630	39	12800	74	42	38
FIR370	546375	6367120	340		43	0.4	2580	97	36400	203	317	77
FIR371	546375	6367120	338		12	0.2	1070	33	10400	24	111	24
FIR372	546375	6367120	156	161	4	0.15	201	6	432	4	8	11
FIR373	546349	6367113	19	18	13	0.15	737	12	1440	32	82	106
FIR374	546060	6367696	111		242	7.3	286	28	684	11	14	219
FIR375	545784	6367603	1		14	0.1	212	68	5120	78	134	141
FIR375 Rpt	545784	6367603	-1		13	0.1	213	68	5160	79	138	137

Sample Preparation

The samples have been sorted, dried and split where necessary.  
The samples have then been pulverised in a vibrating disc pulveriser.

Analytical Methods

The samples have been digested with Aqua Regia. This is a partial digest though it is extremely efficient for extraction of Gold. Easily digested elements show good recoveries however others (particularly the refractory oxides and silicates) are poorly extracted.

Au(AR), Pb, Ag, As

have been determined by Inductively Coupled Plasma (ICP) Mass Spectrometry.

Cu, Zn, Mn, Co, Ni

have been determined by Inductively Coupled Plasma (ICP) Optical Emission Spectrometry.