

BC Geological Survey
Assessment Report
32047

GEOCHEMICAL REPORT (ROCK AND SOIL)

ROD-STIR PROPERTY

Clinton Mining Division, British Columbia

**Latitude 51°07' / Longitude 122°15'
UTM NAD 83 5663066 mN and 552495 mE.
NTS: Map 092O/019**

**Prepared by:
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WILLIAMS LAKE, BC V2G 2V5
January 20th, 2011**

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ROD-STIR PROJECT
Location Map
 Fig. 1

A.) PROPERTY DESCRIPTION

1) Location

The Rod-Stir Property is located, on the west side of the Fraser River, 92 kilometers north of the community of Lillooet. The property is centered at 51°07' north latitude and 122°15' west longitude, UTM NAD 83 5663066 mN and 552495 mE. (Figure 1)

2) Access and Physiography

The property is accessed from Lillooet via the West Pavilion Forestry road on the west side of the Fraser River. At kilometre 92 on the West Pavilion road a secondary mining road takes off to the west and at 9 kilometres bisects the property. The closest helicopter service is located in Lillooet.

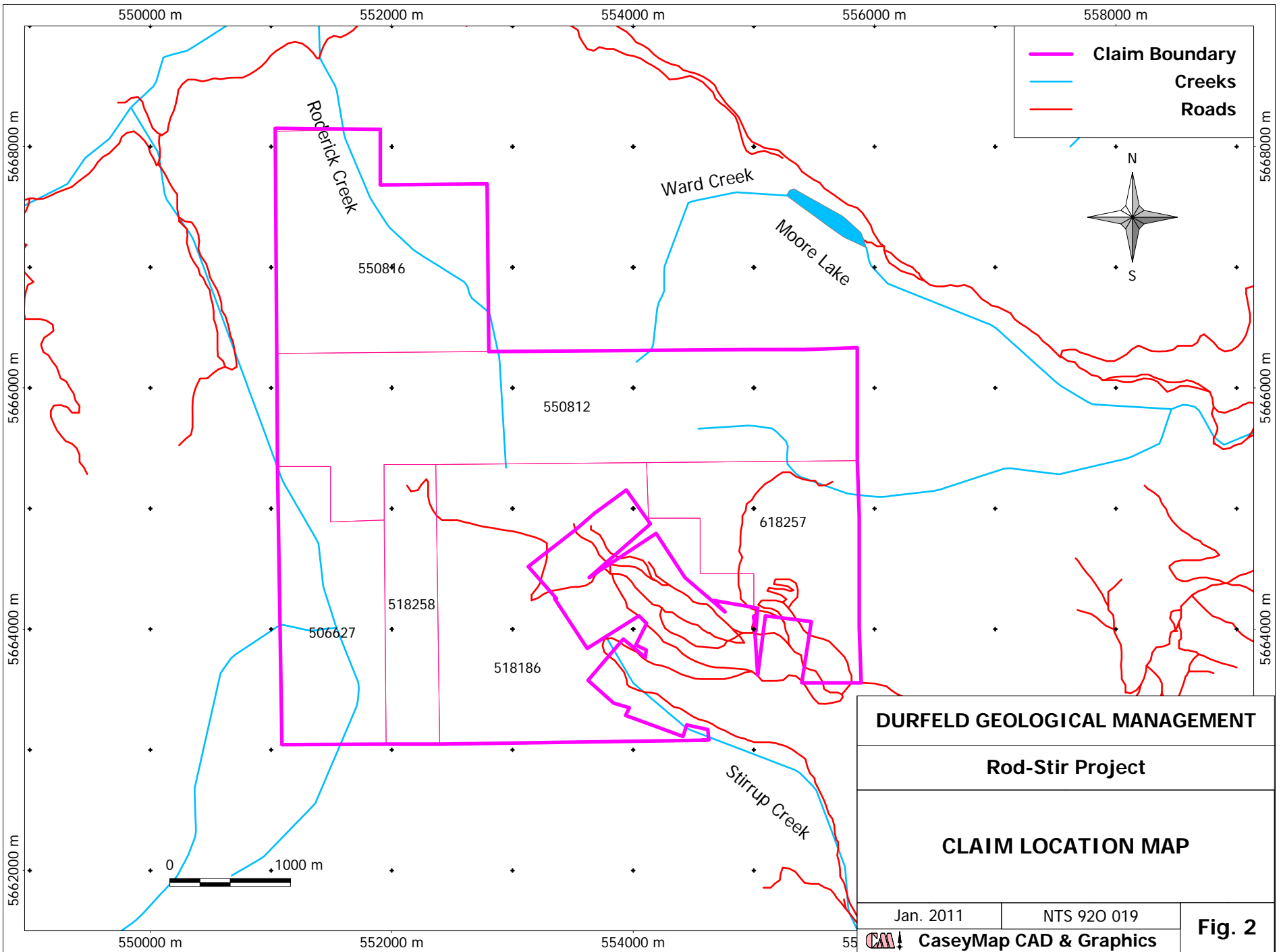
The property is on the Fraser Plateau in south central British Columbia. The topography of the property is dominated by the east-west trending 9-mile ridge with elevations ranging from 1600 to 2010 metres above sea level.

3) Claims

The Rod-Stir Property consists of 8 contiguous mineral tenures covering some 1804.9 hectares of mineral tenure in the Clinton Mining Division. (Figure 2)

The following table summarizes the current claim status. The Good To Date reflects work that was filed as SOWs Exploration and Development Work / Expiry Date Change Event Numbers (4818825) and is documented in this report. The claims are held in the name of JM (Mel) Stewart (FMC # 125752).

Claim Tenure as Roderick Claims							
Tenure Number	Claim Name	Owner	Tenure Type	Map Number	Issue Date	Good To Date	Area (ha)
518186	DAVE	125752 (100%)	Mineral	092O	2005/jul/22	2011/sep/30	486.8
518257	DAVE 2	125752 (100%)	Mineral	092O	2005/jul/26	2011/sep/30	223.1
518258	DAVE 3	125752 (100%)	Mineral	092O	2005/jul/26	2011/sep/30	101.4
538455	GAP 1	125752 (100%)	Mineral	092O	2006/aug/01	2011/sep/30	40.6
538457	GAP 2	125752 (100%)	Mineral	092O	2006/aug/01	2011/sep/30	20.3
550812	JOAN	125752 (100%)	Mineral	092O	2007/jan/31	2011/sep/30	466.4
550816	DEB	125752 (100%)	Mineral	092O	2007/jan/31	2011/sep/30	283.8
596627	JM	125752 (100%)	Mineral	092O	2008/dec/26	2011/sep/30	182.6
						Property Area	1804.9



4.) Regional History (Stirrup / Roderick Creek)

Mineral claims owned by H.V. Warren and his associates, located on the ridge between the headwaters of Stirrup Creek and Roderick Creek in the Clinton Mining Division, have been investigated for the source of several thousand ounces of placer gold. Warren reports that placer gold was discovered at Stirrup Creek during World War 1 and over the following 25 years, some 3000 to 5000 ounces of gold were produced. Placer operations have continued intermittently since that time.

The 1933 B.C. Minister of Mines Report notes that a 100 foot cross-cut with an 80 foot winze and a connecting 12 foot drift were completed that year. A number of veins and lenses of stibnite were located in 1942.

Rio Tinto Explorations Ltd. optioned the property in 1969. That company carried out geochemical surveys and drilled nine percussion holes aggregating 494 metres (1622 feet). A piece of float found on the ridge saddle at this time assayed 0.66 opt gold. Placer Development Ltd. optioned the property in 1973 and undertook geochemical and trenching programs. Then Chevron optioned the property in 1974. Chevron also conducted geochemical and geological programs, trenching, and in 1975 drilled two 300 foot vertical core holes. Asarco made detailed examinations of the claims in 1980, and Placer Development are reported to have conducted a limited VLF-EM test in 1984. Interest in the property was again revived in 1986 when the high grade Blackdome gold deposit located about 30 kilometers north of Stirrup Creek was brought into production.

Chevron Canada Resources Limited again optioned the property in 1987 along with the adjacent Brent property to the west. The properties were acquired with a view to re-evaluating a number of known gold showings within the Warren claims, and in particular to determine whether smaller, structurally controlled deposits may be present. In June and July of 1987, a number of old trenches were cleaned, a limited amount of new trenching was completed and sampled. In October, four shallow drill tests were completed.

5.) 2010 Exploration Program

The 2010 exploration continued to expand the soil sampling to the east of previous sampling. From October 28th to October 31st, 2010 prospecting and geochemical, soil and rock sampling was conducted on the RodStirp property. The results of the 2010 program are compiled with the previous data and documented in this report.

B.) GEOLOGY

1) Regional Geology

The claim area lies near the eastern margin of the Jackass Mountain Group, an early Cretaceous sedimentary unit. The assemblage is reported to be about 5300 metres thick consisting of volcanic-rich lithic waxes, shales and polymict boulder conglomerates that are dominantly of marine origin.

The claims lie close to the Trettin'D ' Fault, one of the major northwesterly splays of the Fraser River Fault Zone. Movement along the Fraser Fault and the Yalakom Fault further to the west has dissected the Jackass Group into several parts and has also resulted in a number of cross faults trending east to northeast between the two. A number of easterly trending parallel faults have been noted in the upper part of Stirrup Creek.

2) Property Geology

Much of the area of the 2007, 2008 , 2009 and 2010 programs is lower on the hillside and covered by overburden. The contacts on the geology map were defined by mapping rubble in soil pits and outcrop where observed. The geology is given as figure 3 and as the backdrop for all of the geochemical results.

Within the claims and adjoining area to the northwest and south east, the sedimentary rocks dominated by sandstone (2), conglomerate (2a) and lesser siltstone and argillite (3) have been intruded by dykes and sills of granodiorite, grading from feldspar (4a) to quartz-feldspar porphyry (4b). Due to limited exposure, the nature of the intrusives are not defined but are believed to be part of the sill and Dyke system present at Stirrup Creek. These intrusives are locally mineralized with fine pyrite / arsenopyrite. The mineralized intrusions form prominent gossans on the alpine open slopes.

3) Mineralization

In the central claim area, small stibnite occurrences have been partly exposed in bulldozer trenches. The stibnite occurs as narrow seams near the contact of a quartz-feldspar porphyry sill that seems to trend west to northwest in an argillaceous siltstone host. Nearby rocks are locally highly altered, cream-coloured and clay rich with dark brown fractures. This setting and the geochemistry are similar to other occurrences on the adjacent Stirrup Creek property.

Two small hand pits reveal grey stibnite bearing quartz veins and stringers in a gossanous quartz-feldspar porphyry. The extent or trend of this zone is presently uncertain. Poorly defined quartz veins assaying up to 200 ppb gold are present near the northwest margin of the Shine claim. This material appears to mark a contact between quartz-feldspar porphyry and Jackass sandstone.

4) Alteration

During the 2007 sampling program a series of float of altered sediment and intrusive rocks were selected and sent to Kim Heberlein in Vancouver for PIMA Spectral Analysis.

The results of her work showed an alteration suite of – phlogopite, illite/sericite, smectite, chlorite (Fe-Mg), weak kaolinite, probable epidote. A comparison of this alteration assemblage to the ‘Temperature Stability of Hydrothermal Minerals in the Epithermal Environment’ shows the alteration minerals defining a zone with potential for epithermal ore deposition.

C.) GEOCHEMISTRY

1) Sample Collection

During the 2010 program 21 soil and 8 rock samples were collected for analysis. The sample sites were located using the Garmin GPS and recorded the UTM location in NAD 83.

Soil sampling was conducted with a grub hoe digging pits to a minimum of .7 metres to expose the soil profile. This profile showed a light grey volcanic ash that was up to .6 metres thick overlying a well developed rusty yellow to brown B-horizon soil. Samples were taken from the B-horizon, rock fragments removed and the sand silt and clay material placed in a pre-numbered kraft sample bag. Individual samples were described and the predominant lithology determined from local outcrops and rock fragments. The sample number and location were entered in an XL data base and later merged with the analytical results.

Rock samples were collected as random chips from outcrop and subcrop and placed with pre-numbered assay tags in plastic sample bags. The sample number and location were entered with the lithology in the XL data base and merged with the analytical results.

All equipment was cleaned between samples to avoid contamination.

2) Sample Analysis

Samples were shipped to ECO TECH LABORATORY LTD. in Kamloops, BC for analysis by fire geochem for gold and 34 element ICP. The labs detailed analytical procedures are given as Appendix III. The results were received in XL format and are tabulated with the sample location and description as Appendix II.

D.) RESULTS

The soil and rock results were merged with the field data and are given as appendix I.

The 2010 rock sample locations are shown with the property geology as figure 3. The results for gold arsenic and antimony were merged with the previous data and plotted as figures 4, 5 and 6.

The 2010 soil sample locations are shown with the geology as figure 7 and the 2010 soil results are plotted with the soil results from previous surveys with geology for gold, arsenic and antimony as figures 8, 9 and 10.

The historic and current rock sampling has shown background gold values. A single sample of quartz-stibnite-arsenopyrite vein from the 2007 survey returned 586 ppm arsenic, 59 ppm mercury and greater than 10,000 ppm antimony. The high arsenic-stibnite suggest epithermal potential at depth. Otherwise the rock sampling has shown low arsenic and antimony values. The 2010 soil sampling continued to fill in and confirm the historic western anomaly which is developing as a strong gold-arsenic-antimony in soil anomaly that is open to the north and west. Several prospecting and rock sampling traverses at the head of Ward Creek encountered relatively unaltered sandstones and conglomerate of the Jackass Mountain Group that were not anomalous in gold or pathfinder elements. A single 2008 traverse in the northern claim area showed a single gossanous soil sample strongly anomalous in gold (149 ppb) and arsenic (149 ppm). A small grid of 10 soil samples did not show any samples anomalous in gold and only a single sample with 143 ppm arsenic in an area underlain by gossanous weakly altered sandstone. Sampling of pyritic feldspar porphyry in the west property area showed the only rock sample of the 2009 work anomalous in gold (59 ppb).

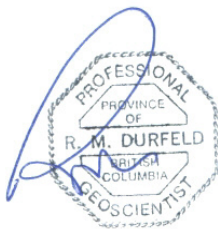
The 2010 rock sampling showed a quartz veined altered sandstone to be anomalous in arsenic (2522580) while the soil line to the northwest continues to define a coincident weak gold and arsenic anomaly.

Ongoing work should continue to focus on expanding the western anomaly to define trenching and drilling targets. The logging road up Roderick Creek provides excellent access to this area for ongoing work.

E.) COST STATEMENT

RODERICK GOLD PROJECT					
October 1 to November 4, 2010					
Soil Sampling, Prospecting and Geology					
Travel / Room / Board					
	Mob / Demob	20%		\$3500 Project cost.	\$700.00
	Quad	2	day	@ \$70/day	\$140.00
	Room and Board	4	manday	@ \$85/day	\$340.00
Wages					
Geologist	RM Durfeld, P.Geo				
	Nov 4th	0.5	day	@ \$700/day	\$350.00
Prospector	S Lehman				
	Oct 28th to Nov 1st	4	day	@ \$250/day	\$1,000.00
Analytical					
	2010 Sampling				
	Rock Samples	8	rock	@ \$ 31.45	\$251.60
	Soil Samples	20	soil	@ \$ 24.70	\$494.00
Reporting					
	Drafting and Plotting				\$500.00
	Report				\$1,200.00
	TOTAL 2009 PROJECT COST				\$4,975.60

Dated at Williams Lake, British Columbia this 20th day of January 2011.



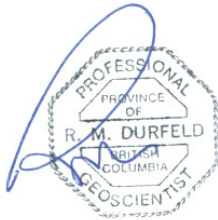
R.M. Durfeld, B.Sc., P.Geo.

F.) STATEMENT OF QUALIFICATIONS

I, Rudolf M. Durfeld, do hereby certify that:

- 1.) I am a geologist with offices at 2029 South Lakeside Drive, Williams Lake, BC.
- 2.) I am a graduate of the University of British Columbia, B.Sc. Geology 1972, and have practiced my profession with various mining and/or exploration companies and as an independent geological consultant since graduation.
- 3.) I am a member Canadian Institute of Mining and Metallurgy.
- 4.) That I am registered as a Professional Geoscientist by the Association of Engineers and Geoscientists of B.C. (No. 18241).
- 5.) That this report is based on:
 - a.) my project supervision and rock sample identification on my November 4th, 2011.
 - b.) compilation of the 2010 and previous exploration data.
 - b.) my personal knowledge of the property area and a review of available government maps and assessment reports.

Dated at Williams Lake, British Columbia
this 20th day of January 2011.

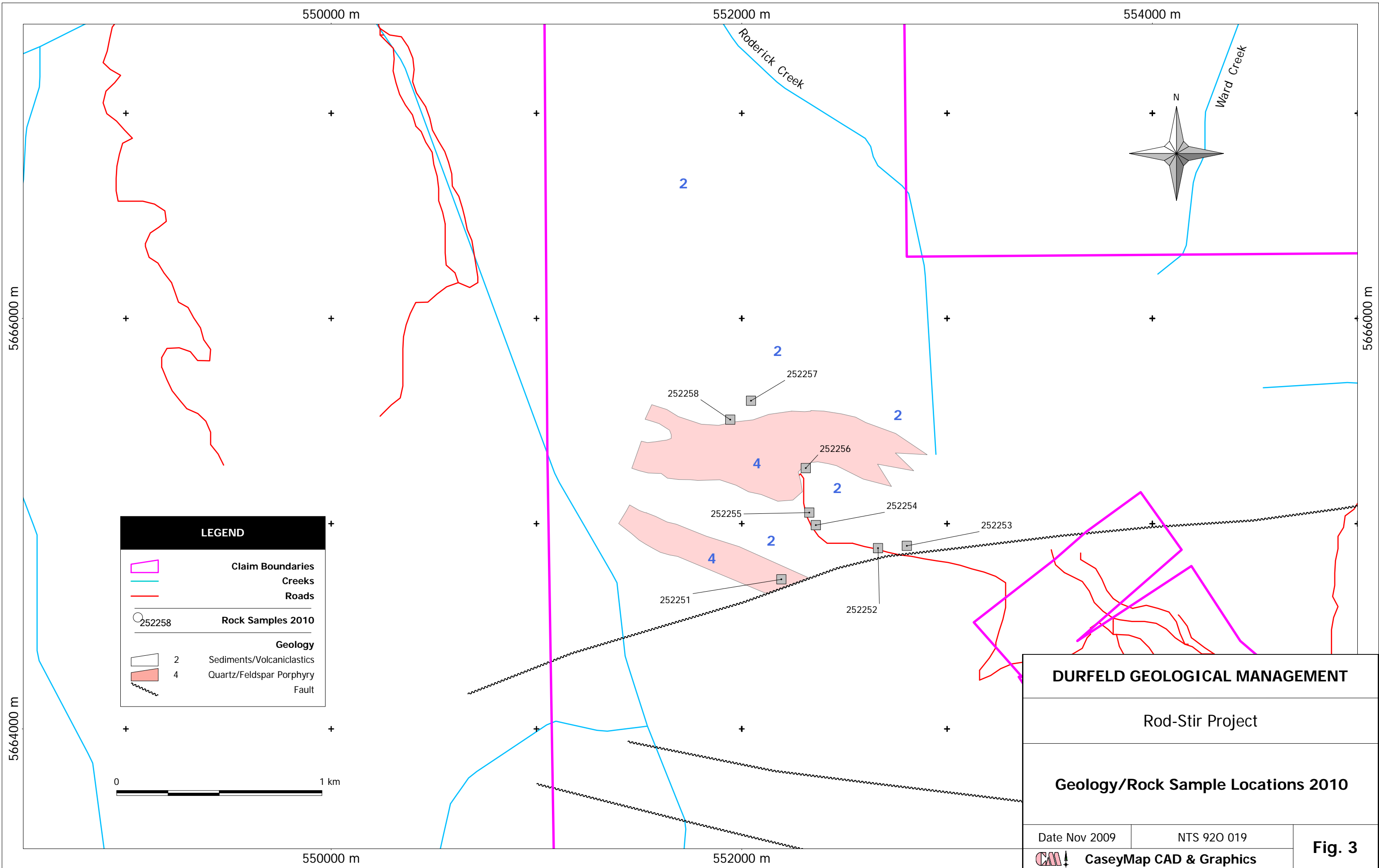



R.M. DURFELD, B.SC., P.GEO.

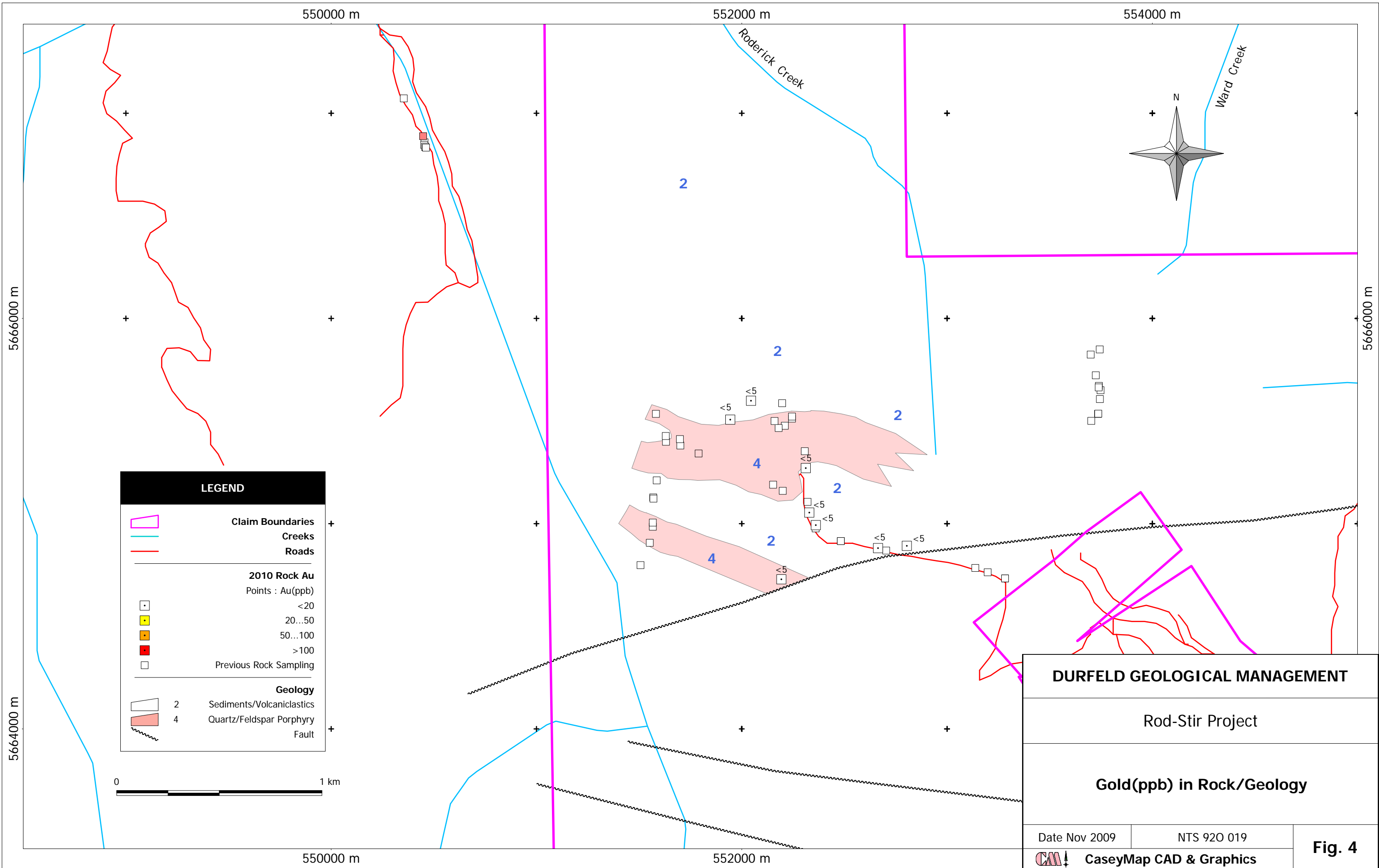
FIGURES

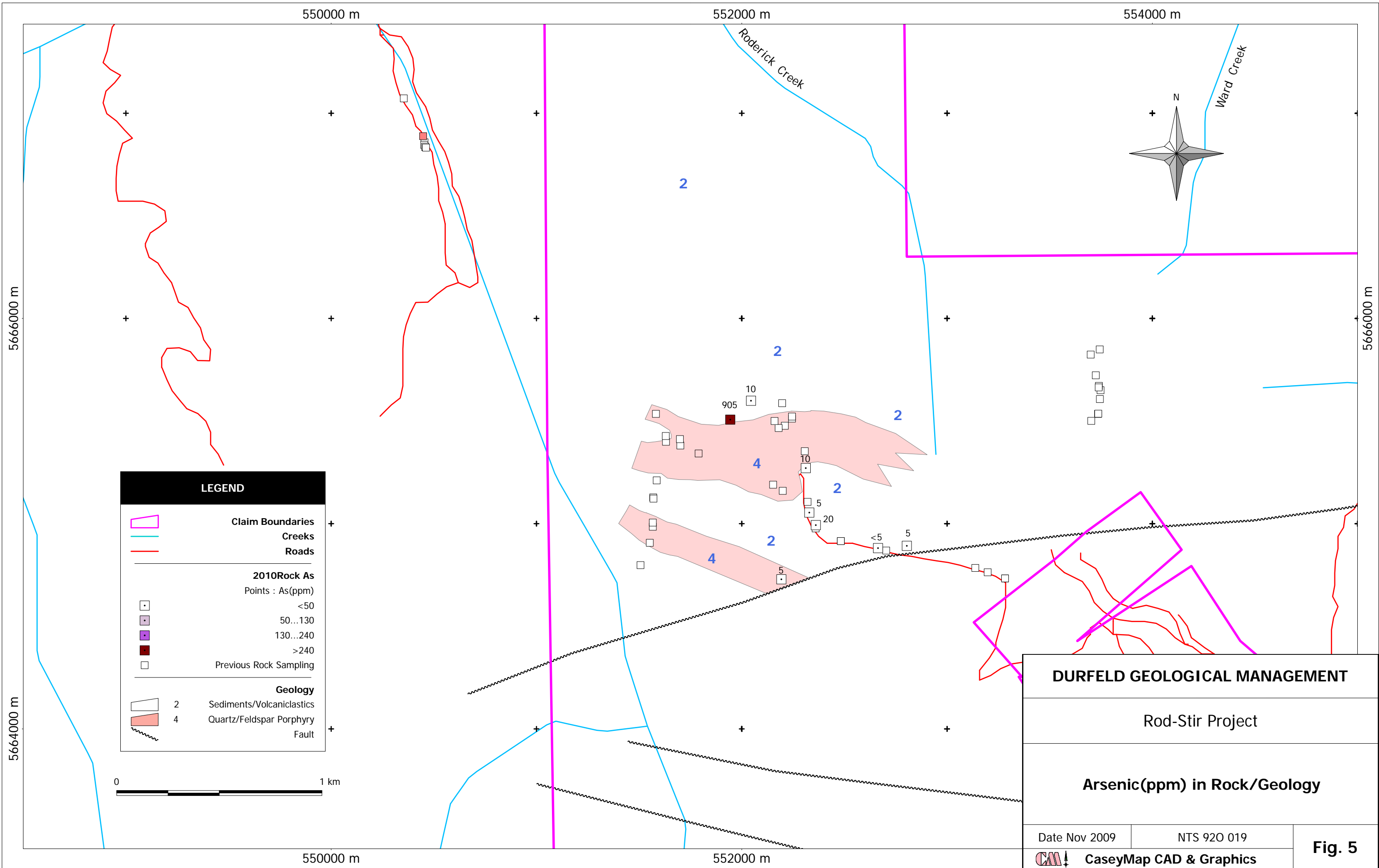
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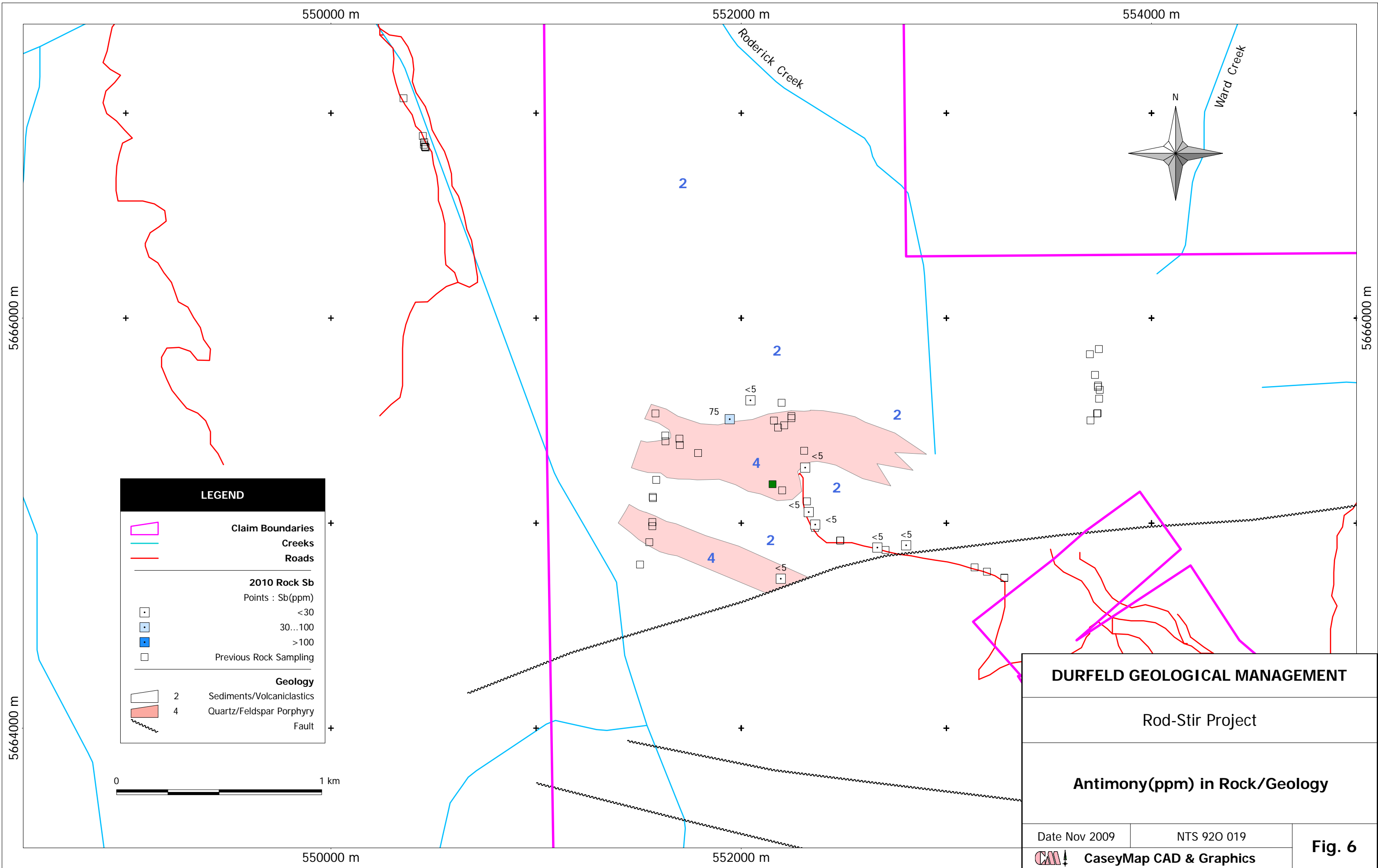
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- Figure 10 Rod-Stir Project Antimony(ppm) in Soil/Geology**



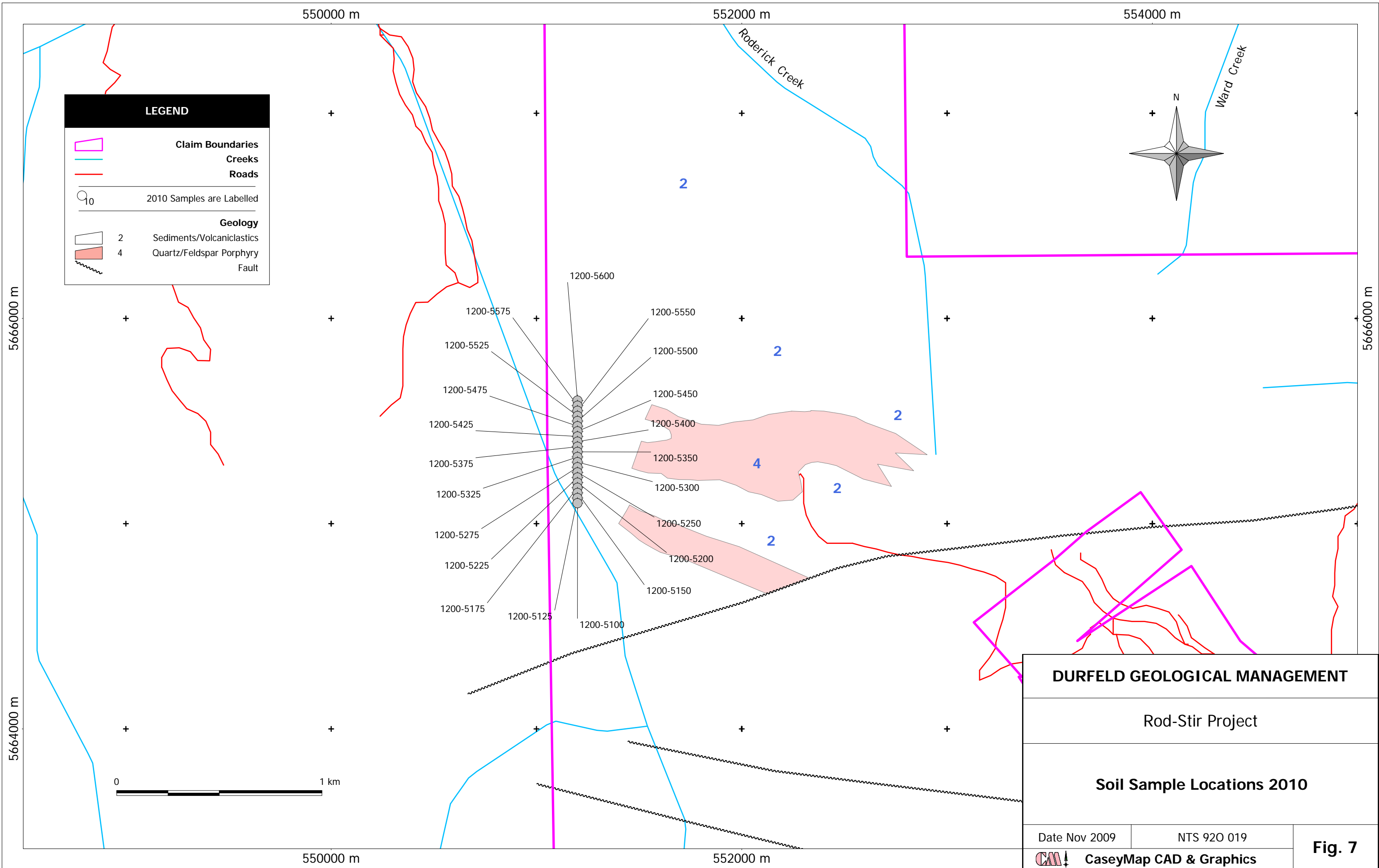
DURFELD GEOLOGICAL MANAGEMENT		
Rod-Stir Project		
Geology/Rock Sample Locations 2010		
Date Nov 2009	NTS 920 019	Fig. 3
 CaseyMap CAD & Graphics		

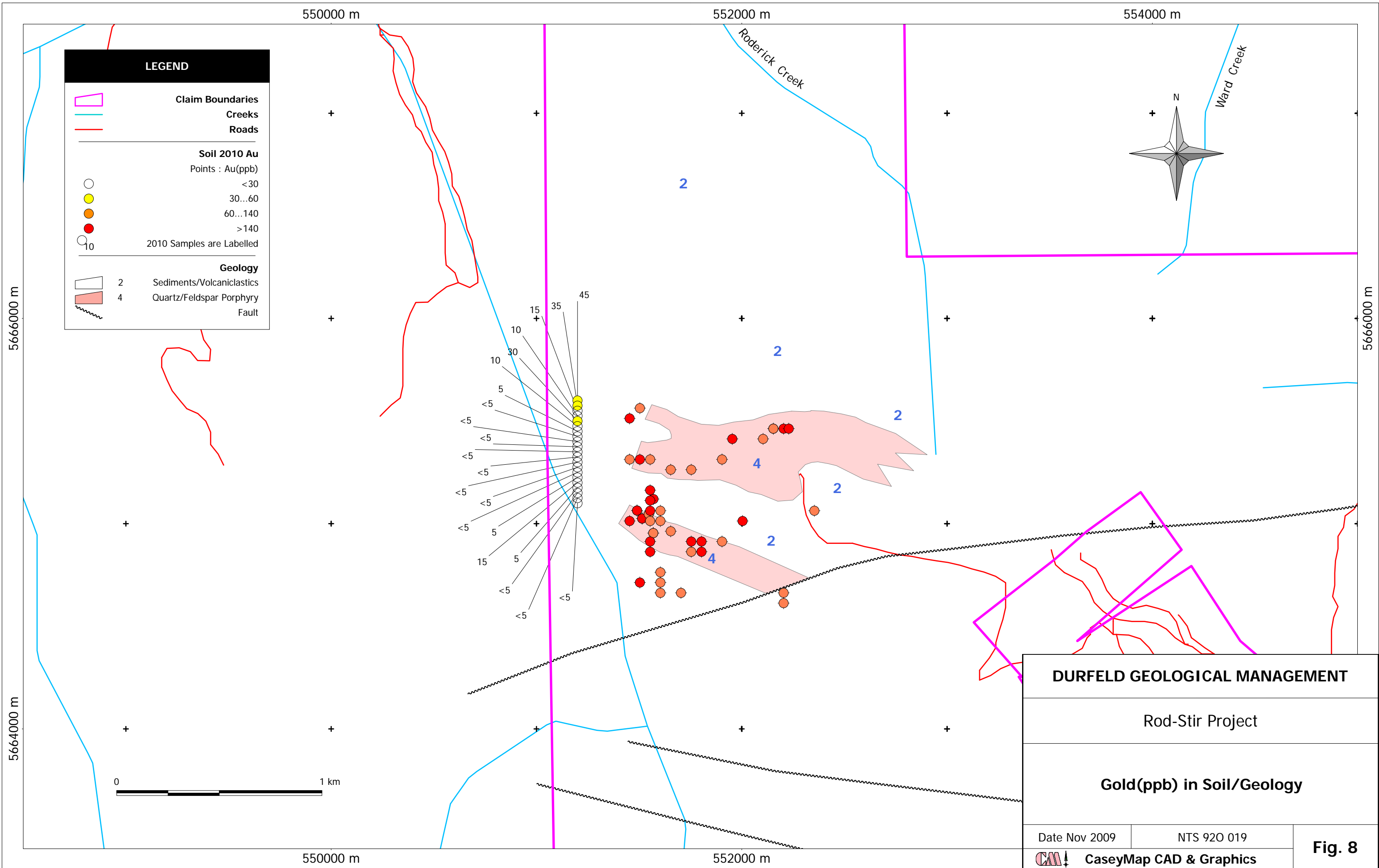


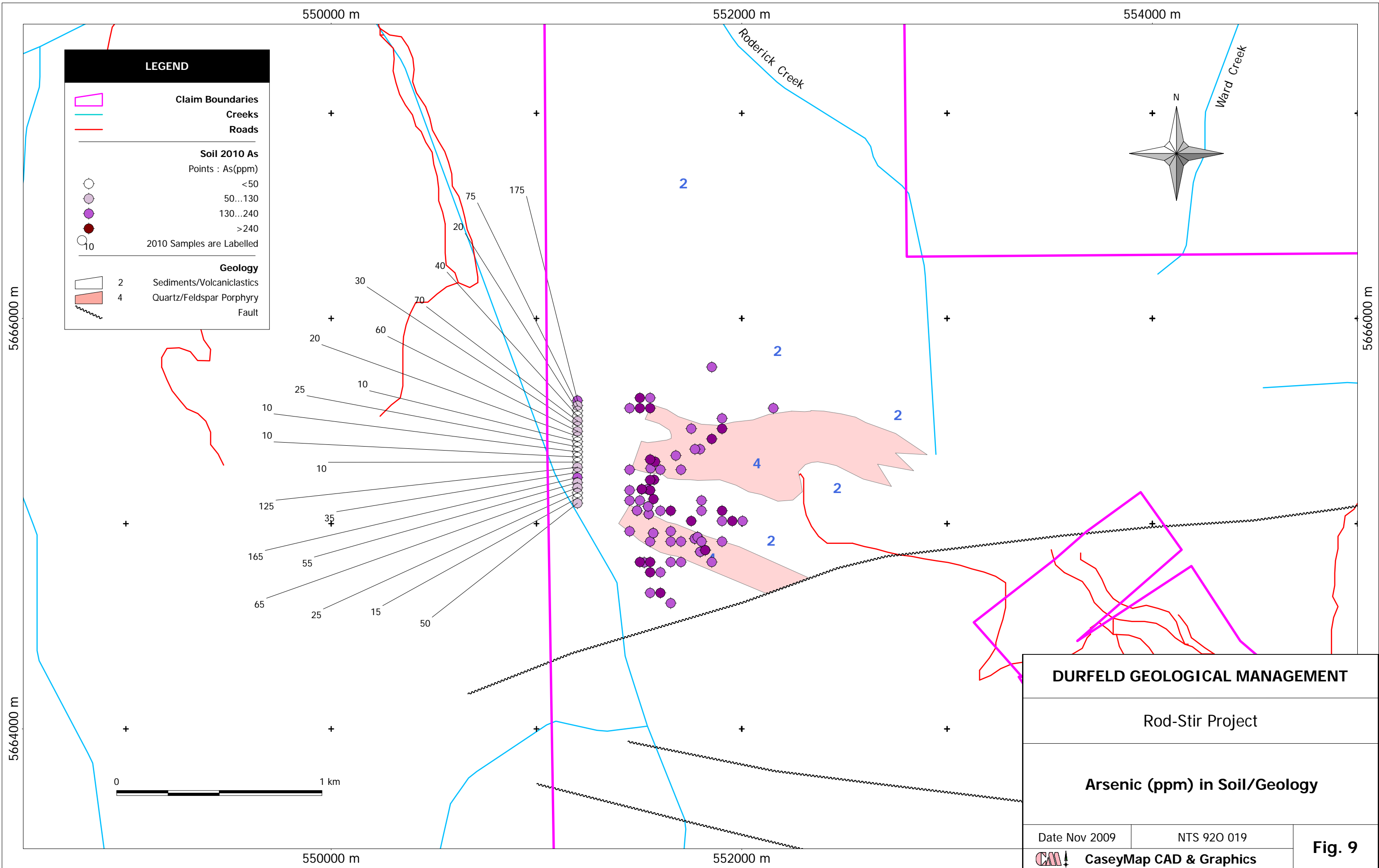





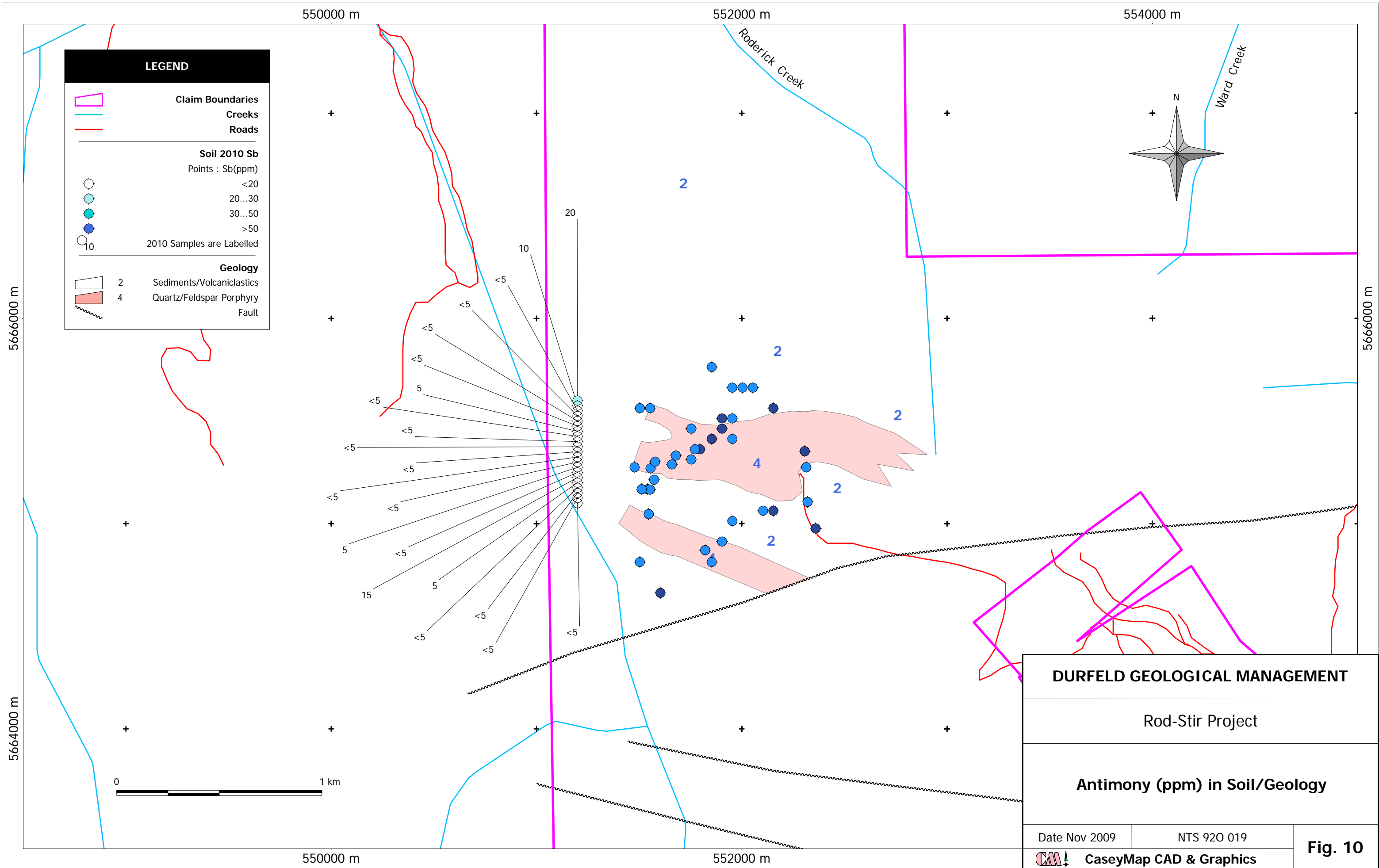
DURFELD GEOLOGICAL MANAGEMENT		
Rod-Stir Project		
Antimony(ppm) in Rock/Geology		
Date Nov 2009	NTS 920 019	Fig. 6
CaseyMap CAD & Graphics		







DURFELD GEOLOGICAL MANAGEMENT		
Rod-Stir Project		
Arsenic (ppm) in Soil/Geology		
Date Nov 2009	NTS 920 019	Fig. 9
 CaseyMap CAD & Graphics		



DURFELD GEOLOGICAL MANAGEMENT		
Rod-Stir Project		
Antimony (ppm) in Soil/Geology		
Date Nov 2009	NTS 920 019	Fig. 10
CaseyMap CAD & Graphics		

APPENDIX II: 2010 SAMPLE LOCATIONS

ROD-STIR 2010 ROCK SAMPLE DESCRIPTIONS			
utm NAD 83		Sample #	Sample Description
east	north		
552193	5664729	252251	Hornblende xls to .5cm in wk alt'd andesite? Or fine granodiorite
552664	5664881	252252	Medium grained crowded FP with quartz.
552804	5664892	252253	Coarse sandstone
552361	5664993	252254	Gossanous slight silicious coarse sandstone
552329	5665054	252255	Altered silicified SD - dyke?
552312	5665271	252256	Coarse dark green sandstone
552045	5665599	252257	Fine grained banded sandstone silicious and altered
551944	5665507	252258	Quartz vein in gossanous sandstone.

ROD-STIR 2010 SOIL SAMPLE DESCRIPTIONS

utm NAD 83		Sample #					
east	north						
551200	5665600	1200	5600				
551200	5665575	1200	5575				
551200	5665550	1200	5550				
551200	5665525	1200	5525				
551200	5665500	1200	5500				
551200	5665475	1200	5475				
551200	5665450	1200	5450				
551200	5665425	1200	5425				
551200	5665400	1200	5400				
551200	5665375	1200	5375				
551200	5665350	1200	5350				
551200	5665325	1200	5325				
551200	5665300	1200	5300				
551200	5665275	1200	5275				
551200	5665250	1200	5250				
551200	5665225	1200	5225				
551200	5665200	1200	5200				
551200	5665175	1200	5175				
551200	5665150	1200	5150				
551200	5665125	1200	5125				
551200	5665100	1200	5100				

APPENDIX III: 2010 ANALYTICAL RESULTS

Eco Tech Laboratory Ltd.
2953 Shuswap Road
Kamloops, BC
V2H 1S9 Canada
Tel + 1 250 573 5700
Fax + 1 250 573 4557
Toll Free + 1 877 573 5755
www.stewartgroupglobal.com



StewartGroup
Geochemical & Assay

CERTIFICATE OF ANALYSIS AK 2010- 1058

Durfeld Geological Management
PO Box 4438
Williams Lake, BC
V2G 2V5

7-Dec-10

No. of samples received: 8
Sample Type: Rock
Project: Roderick
Submitted by: Rudi Durfeld

ET #.	Tag #	Au (ppb)
1	252251	<5
2	252252	<5
3	252253	<5
4	252254	<5
5	252255	<5
6	252256	<5
7	252257	<5
8	252258	<5

QC DATA:

Repeat:

1 252251 <5

Resplit:

1 252251 <5

Standard:

OXE74 615

FA Geochem/AA Finish

NM/PS
XLS/10

ECO TECH LABORATORY LTD.
Norman Monteith
B.C. Certified Assayer

Stewart Group
ECO TECH LABORATORY LTD.
 10041 Dallas Drive
KAMLOOPS, B.C.
 V2C 6T4
www.stewartgroupglobal.com

ICP CERTIFICATE OF ANALYSIS AK 2010- 1058

Durfeld Geological Management
 PO Box 4438
Williams Lake, BC
 V2G 2V5

Phone: 250-573-5700
 Fax : 250-573-4557

No. of samples received: 8
Sample Type: Rock
Project: Roderick
Submitted by: Rudi Durfeld

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al%	As	Ba	Be	Bi	Ca%	Cd	Co	Cr	Cu	Fe%	Hg	K%	La	Li	Mg%	Mn	Mo	Na%	Ni	P	Pb	S%	Sb	Sc	Se	Sn	Sr	Ti%	U	V	W	Y	Zn
1	252251	<0.2	0.70	5	256	<1	<5	1.92	<1	5	66	12	1.61	<5	0.12	12	2	0.40	785	<1	0.03	5	610	18	0.02	<5	1	<10	<5	56	<0.01	<5	20	<5	5	48
2	252252	<0.2	1.02	<5	146	<1	<5	0.52	<1	7	78	8	2.11	<5	0.10	6	10	0.65	910	<1	0.06	6	590	36	<0.01	<5	2	<10	<5	34	0.05	<5	36	<5	4	54
3	252253	<0.2	2.31	5	56	<1	<5	0.87	<1	14	80	26	3.53	<5	0.06	8	14	1.37	640	2	0.05	15	730	39	0.01	<5	8	<10	<5	70	0.24	<5	84	<5	8	78
4	252254	<0.2	0.99	20	90	<1	<5	1.20	<1	10	80	26	3.70	<5	0.10	12	8	0.54	790	<1	0.03	20	720	72	0.03	<5	5	<10	<5	38	<0.01	<5	42	<5	10	70
5	252255	<0.2	0.59	5	122	<1	<5	0.86	<1	7	76	8	2.06	<5	0.13	16	2	0.12	710	<1	0.03	11	550	51	<0.01	<5	2	<10	<5	32	<0.01	<5	16	<5	7	32
6	252256	<0.2	2.74	10	82	<1	<5	1.98	<1	16	88	32	3.70	<5	0.04	8	24	1.71	890	2	0.05	31	950	39	0.02	<5	7	<10	<5	110	0.21	<5	102	<5	11	66
7	252257	<0.2	2.77	10	40	<1	<5	0.67	<1	20	136	58	4.11	<5	0.05	4	28	2.06	625	2	0.09	68	830	33	0.01	<5	7	<10	<5	46	0.21	<5	124	<5	6	98
8	252258	<0.2	0.58	905	42	<1	<5	0.24	<1	5	100	52	1.61	<5	0.05	8	10	0.13	180	<1	0.01	7	580	24	<0.01	75	3	<10	<5	18	<0.01	<5	26	<5	3	22

QC DATA:

Repeat:

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Resplit:

1	252251	<0.2	0.74	<5	276	<1	<5	1.94	<1	5	72	12	1.69	<5	0.15	12	4	0.40	805	<1	0.05	5	610	15	0.02	<5	1	<10	<5	60	<0.01	<5	20	<5	5	46
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Standard:

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--------	--	------	------	----	----	----	----	------	----	---	----	------	------	----	------	---	----	------	-----	---	------	---	-----	------	------	----	----	-----	----	----	------	----	----	----	---	------

ICP: Aqua Regia Digest / ICP- AES Finish.
Ag : Aqua Regia Digest / AA Finish.

NM/PS
 df/1_1020bS
 XLS/10


ECO TECH LABORATORY LTD.
 Norman Monteith
 B.C. Certified Assayer



CERTIFICATE OF ANALYSIS AK 2010- 1057

Durfeld Geological Management
PO Box 4438
Williams Lake, BC
V2G 2V5

7-Dec-10

No. of samples received: 22
Sample Type: Soil
Project: El Dorado
Submitted by: Rudi Durfeld

ET #.	Tag #	Au (ppb)
1	345768	<5
2	1200-5600	45
3	1200-5575	35
4	1200-5550	15
5	1200-5525	10
6	1200-5500	30
7	1200-5475	10
8	1200-5450	5
9	1200-5425	<5
10	1200-5400	<5
11	1200-5375	<5
12	1200-5350	<5
13	1200-5325	<5
14	1200-5300	<5
15	1200-5275	<5
16	1200-5250	<5
17	1200-5225	5
18	1200-5200	15
19	1200-5175	5
20	1200-5150	<5
21	1200-5125	<5
22	1200-5100	<5

QC DATA:

Repeat:

2	1200-5600	45
8	1200-5450	5
15	1200-5275	<5
20	1200-5150	<5

Eco Tech Laboratory Ltd.
2953 Shuswap Road
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StewartGroup
Geochemical & Assay

Durfeld Geological Management AK10-1057

7-Dec-10

ET #.	Tag #	Au (ppb)
Standard:		
OXF65		800

FA Geochem/AA Finish

NM/PS
XLS/10


ECO TECH LABORATORY LTD.
Norman Monteith
B.C. Certified Assayer

Stewart Group
ECO TECH LABORATORY LTD.
 10041 Dallas Drive
KAMLOOPS, B.C.
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ICP CERTIFICATE OF ANALYSIS AK 2010-1057

Durfeld Geological Management
 PO Box 4438
Williams Lake, BC
 V2G 2V5

Phone: 250-573-5700
 Fax : 250-573-4557

No. of samples received: 22
Sample Type: Silt/Soil
Project: El Dorado / Roderick
Submitted by: Rudi Durfeld

Values in ppm unless otherwise reported

Et #.	Tag #	Ag	Al%	As	Ba	Be	Bi	Ca%	Cd	Co	Cr	Cu	Fe%	Hg	K%	La	Li	Mg%	Mn	Mo	Na%	Ni	P	Pb	S%	Sb	Sc	Se	Sn	Sr	Ti%	U	V	W	Y	Zn
1	345768	<0.2	0.89	15	178	<1	<5	0.67	<1	22	78	66	5.16	75	0.06	10	12	1.65	725	4	0.01	146	710	9	0.10	10	5	<10	<5	32	0.05	<5	50	<5	6	104
2	1200-5600	<0.2	2.14	175	126	<1	<5	0.32	1	14	42	88	3.90	<5	0.12	6	10	0.77	260	4	0.03	38	480	18	<0.01	20	5	<10	<5	50	0.12	<5	76	<5	3	78
3	1200-5575	<0.2	1.61	75	100	<1	<5	0.21	<1	11	32	54	3.08	<5	0.10	6	10	0.50	225	3	0.03	28	330	12	<0.01	10	3	<10	<5	36	0.12	<5	62	<5	3	54
4	1200-5550	<0.2	1.21	20	68	<1	<5	0.22	<1	9	24	36	2.53	<5	0.11	4	6	0.38	405	2	0.03	20	380	9	<0.01	<5	2	<10	<5	30	0.12	<5	60	<5	2	48
5	1200-5525	<0.2	2.21	40	134	<1	<5	0.32	<1	12	42	58	3.35	<5	0.11	6	10	0.73	360	3	0.03	34	310	12	<0.01	<5	4	<10	<5	62	0.14	<5	70	<5	3	56
6	1200-5500	<0.2	2.36	70	134	<1	<5	0.29	<1	12	40	110	3.58	<5	0.12	6	10	0.79	215	4	0.03	31	240	12	<0.01	<5	5	<10	<5	66	0.15	<5	80	<5	3	46
7	1200-5475	<0.2	1.99	30	116	<1	<5	0.25	<1	12	34	44	2.99	<5	0.12	4	10	0.57	335	3	0.03	33	530	12	<0.01	<5	3	<10	<5	40	0.12	<5	62	<5	2	60
8	1200-5450	<0.2	1.85	60	110	<1	<5	0.24	<1	11	36	46	3.15	<5	0.14	6	12	0.59	240	2	0.02	35	470	12	<0.01	5	4	<10	<5	30	0.11	<5	58	<5	3	70
9	1200-5425	<0.2	1.70	20	116	<1	<5	0.28	<1	12	34	38	3.12	<5	0.11	6	10	0.51	525	2	0.03	29	640	12	<0.01	<5	4	<10	<5	40	0.13	<5	64	<5	3	74
10	1200-5400	<0.2	1.27	10	88	<1	<5	0.22	<1	9	18	12	2.22	<5	0.07	4	4	0.23	370	2	0.03	18	1200	9	<0.01	<5	2	<10	<5	22	0.11	<5	54	<5	2	48
11	1200-5375	<0.2	2.21	25	128	<1	<5	0.32	<1	14	40	30	3.30	<5	0.13	6	12	0.57	495	3	0.03	41	950	12	<0.01	<5	4	<10	<5	34	0.12	<5	62	<5	2	92
12	1200-5350	<0.2	2.13	10	128	<1	<5	0.31	<1	13	34	18	2.99	<5	0.11	6	12	0.47	545	2	0.03	32	1030	15	<0.01	<5	3	<10	<5	38	0.14	<5	60	<5	3	68
13	1200-5325	<0.2	1.40	10	72	<1	<5	0.20	<1	11	24	10	2.72	<5	0.07	4	8	0.28	230	1	0.03	23	740	9	<0.01	<5	2	<10	<5	24	0.13	<5	64	<5	2	58
14	1200-5300	<0.2	1.98	10	104	<1	<5	0.30	<1	12	28	14	2.78	<5	0.09	6	8	0.32	470	2	0.03	31	1570	15	<0.01	<5	3	<10	<5	30	0.12	<5	58	<5	3	66
15	1200-5275	<0.2	1.97	125	82	<1	<5	0.56	<1	13	40	22	3.41	<5	0.08	6	12	0.59	575	2	0.03	29	280	12	0.01	5	4	<10	<5	64	0.16	<5	74	<5	4	56
16	1200-5250	<0.2	2.57	35	128	<1	<5	0.45	<1	20	60	42	4.66	<5	0.14	8	16	0.90	460	3	0.03	47	860	15	<0.01	<5	6	<10	<5	68	0.18	<5	92	<5	4	78
17	1200-5225	<0.2	2.12	165	104	<1	<5	0.43	1	16	46	40	3.72	<5	0.11	8	12	0.74	385	2	0.03	40	350	12	<0.01	15	6	<10	<5	52	0.13	<5	70	<5	6	66
18	1200-5200	<0.2	2.29	55	90	<1	<5	0.64	<1	17	46	56	3.85	<5	0.13	10	16	0.96	490	2	0.03	40	550	15	<0.01	5	8	<10	<5	78	0.18	<5	82	<5	8	66
19	1200-5175	<0.2	3.14	65	112	<1	<5	0.73	<1	15	62	62	4.48	<5	0.09	14	18	1.16	335	3	0.03	54	480	15	<0.01	<5	10	<10	<5	98	0.18	<5	90	<5	10	70
20	1200-5150	<0.2	1.81	25	98	<1	<5	0.26	<1	12	36	20	3.12	<5	0.07	4	10	0.53	240	2	0.02	32	610	12	<0.01	<5	4	<10	<5	34	0.12	<5	62	<5	2	54
21	1200-5125	<0.2	2.16	15	98	<1	<5	0.37	<1	14	48	22	3.49	<5	0.09	6	14	0.87	385	2	0.02	55	1070	12	<0.01	<5	5	<10	<5	44	0.13	<5	68	<5	4	64
22	1200-5100	<0.2	2.57	50	66	<1	<5	0.66	<1	15	42	36	3.86	<5	0.07	8	22	1.06	375	2	0.02	36	340	12	<0.01	<5	7	<10	<5	86	0.19	<5	82	<5	6	62

QC DATA:

Repeat:

1	345768	<0.1	0.87	10	172	<1	<5	0.71	<1	24	72	64	4.98	45	0.06	10	12	1.68	735	4	0.01	150	690	12	0.09	10	5	<10	<5	34	0.04	<5	48	<5	6	102
10	1200-5400	<0.1	1.17	10	84	<1	<5	0.20	<1	9	16	12	2.24	<5	0.06	4	4	0.20	355	2	0.02	16	1180	9	<0.01	<5	2	<10	<5	20	0.11	<5	56	<5	2	46

Et #.	Tag #	Ag	Al%	As	Ba	Be	Bi	Ca%	Cd	Co	Cr	Cu	Fe%	Hg	K%	La	Li	Mg%	Mn	Mo	Na%	Ni	P	Pb	S%	Sb	Sc	Se	Sn	Sr	Ti%	U	V	W	Y	Zn	
Standard:																																					
	TIII3	1.5	1.08	80	38	<1	<5	0.52	<1	12	62	20	2.01	<5	0.05	14	16	0.62	315	1	0.03	32	440	18	0.01	<5	3	<10	<5	20	0.08	<5	38	<5	6	40	

ICP: Aqua Regia Digest / ICP- AES Finish.
 Ag : Aqua Regia Digest / AA Finish.

NM/PS
 df/1_1026S
 XLS/10



ECO TECH LABORATORY LTD.
 Norman Monteith
 B.C. Certified Assayer

APPENDIX IV ANALYTICAL PROCEDURES



SAMPLE PREPARATION (codes vary)



Samples (minimum sample size 250g) are catalogued and logged into the sample-tracking database. During the logging in process, samples are checked for spillage and general sample integrity. It is verified that samples match the sample shipment requisition provided by the clients. The samples are transferred into a drying oven and dried.

Soils are prepared by sieving through an 80-mesh screen to obtain a minus 80-mesh fraction. Samples unable to produce adequate minus 80-mesh material are screened at a coarser fraction. These samples are flagged with the relevant mesh.

Rock samples are crushed on a Terminator jaw crusher to -10 mesh ensuring that 70% passes through a Tyler 10 mesh screen.

Every 35 samples a re-split is taken using a riffle splitter to be tested to ensure the homogeneity of the crushed material.

A 250 gram sub sample of the crushed material is pulverized on a ring mill pulverizer ensuring that 95% passes through a -150 mesh screen. The sub sample is rolled, homogenized and bagged in a pre-numbered bag.

A barren gravel blank is prepared before each job in the sample prep to be analyzed for trace contamination along with the processed samples.



GOLD FIRE ASSAY: GEOCHEM (Au2-15,30,50)



A 15/30/50 g sample size is fire assayed along with certified reference materials using appropriate fluxes. The flux used is pre-mixed, purchased from Anachemia which contains Cookson Granular Litharge. (Silver and Gold Free). The ratios are 66% Litharge, 24% Sodium Carbonate, 2.7% Borax, 7.3% Silica. (The charges may be adjusted based on the sample). Flux weight per fusion is 150g. Purified Silver Nitrate or inquarts for the necessary silver addition is used for inquartation. The resultant dore bead is parted and then digested with nitric acid followed by hydrochloric acid solutions and then analyzed on an atomic absorption instrument (Perkin Elmer/Thermo S-Series AA instrument).

Over-range geochem values (Detection limit 5-1000ppb) for rocks are re-analyzed using gold assay methods (see below).

Appropriate certified reference material and repeat/re-split samples (Quality Control Components) accompany the samples on the data sheet for quality control assessment.

Results are collated by computer and are printed along with accompanying quality control data (repeats and standards). Results are emailed, faxed or mailed to the clients.

 **ICP-AES AQUA REGIS DIGESTION (AR-ES)** 

A 0.5 gram sample is digested with a 3:1:2 (HCl: HNO₃: H₂O) solution in a water bath at 95°C. The sample is then diluted to 10ml with water. All solutions used during the digestion process contain beryllium, which acts as an internal standard for the ICP run. The sample is analyzed on a Thermo IRIS Intrepid II XSP ICP unit. Certified reference material is used to check the performance of the machine and to ensure that proper digestion occurred in the wet lab. QC samples are run along with the client samples to ensure no machine drift occurred or instrumentation issues occurred during the run procedure. Repeat samples (every batch of 10 or less) and re-splits (every batch of 35 or less) are also run to ensure proper weighing and digestion occurred.

Results are collated by computer and are printed along with accompanying quality control data (repeats, re-splits, and standards). Any of the base metal elements (Ag, Cu, Pb, Zn) that are over limit (>1.0%) are immediately run as an ore grade assay (see protocol below).

Results are emailed, faxed or mailed to the clients.

Detection Limits:

Element	Unit	LDL	Element	Unit	LDL
Ag	Ppm	0.5	Mn	ppm	5
Al *	%	0.01	Mo	ppm	1
As	Ppm	5	Na *	%	0.01
Ba *	Ppm	2	Ni	ppm	1
Be *	Ppm	1	P	%	0.001
Bi	Ppm	5	Pb	ppm	3
Ca *	%	0.01	S *	%	0.01
Cd	Ppm	1	Sb *	ppm	5
Co	Ppm	1	Sn *	ppm	5
Cr *	Ppm	2	Sr *	ppm	2
Cu	Ppm	2	Ti *	ppm	10
Fe *	%	0.01	U	ppm	5
Hg	Ppm	5	V	ppm	2
K *	%	0.01	W *	ppm	5
La *	Ppm	2	Y *	ppm	1
Li *	Ppm	2	Zn	ppm	2
Mg *	%	0.01			

Elements marked with an asterisk may not be totally digested