



## ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: **Assessment Report on 2011 Activities on the Robson Occurrence**

TOTAL COST: **\$159 513 (Canadian)**

AUTHOR(S): **Twila Skinner and Arnand van Heerden**

SIGNATURE(S): *Twila Skinner Arnand van Heerden*

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): **MX-4-521 (Approval # 10-1620740-0610)**

STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): **5166367 (January 18, 2012)**

YEAR OF WORK: **2011**

PROPERTY NAME: **Robson Occurrence**

CLAIM NAME(S) (on which work was done): **514957**

COMMODITIES SOUGHT: **Au**

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: **0920 026**

MINING DIVISION:

NTS / BCGS:

LATITUDE: 51 ° 1 ' 21 "

LONGITUDE: 122 ° 53 ' 4 " (at centre of work)

UTM Zone: **10** EASTING: **508101** NORTHING: **5652326**

OWNER(S): **Ken Shannon**

MAILING ADDRESS:

**16167-80<sup>th</sup> Ave. Surrey BC V4N 0X1**

OPERATOR(S) [who paid for the work]: **GFE Exploration Corp**

MAILING ADDRESS: **400-1155 Robson St Vancouver BC V6E 1B5**

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**) **Robson Occurrence Eldorado; Gold; NEA Basin; Donlin; Silverquick; Lucky Jem; Lucky Strike**

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)	<b>6.9km2</b>	514957	
<u>Ground, mapping</u>			
<u>Photo interpretation</u>			
GEOPHYSICAL (line-kilometres)			
<u>Ground</u>			
<u>Magnetic</u>			
<u>Electromagnetic</u>			
<u>Induced Polarization</u>			
<u>Radiometric</u>			
<u>Seismic</u>			
<u>Other</u>			
<u>Airborne</u>			
GEOCHEMICAL (number of samples analysed for ...)			
<u>Soil</u>	<b>375</b>	514957	<b>7770</b>
<u>Silt</u>	<b>1</b>	514957	<b>20.72</b>
<u>Rock</u>	<b>77</b>	514957	<b>1533</b>
<u>Other (Drill Core)</u>	<b>150</b>	514957	<b>3108</b>
DRILLING (total metres, number of holes, size, storage location)		514957	
<u>Core</u>	<b>1 NQ Holes 367.89m</b>		<b>109 373</b>
<u>Non-core</u>			
RELATED TECHNICAL			
<u>Sampling / Assaying</u>			
<u>Petrographic</u>			
<u>Mineralographic</u>			
<u>Metallurgic</u>			
PROSPECTING (scale/area)			
PREPARATORY / PHYSICAL			
<u>Line/grid (km)</u>			
<u>Topo/Photogrammetric (scale, area)</u>			
<u>Legal Surveys (scale, area)</u>			
<u>Road, local access (km)/trail</u>			
<u>Trench (number/metres)</u>			
<u>Underground development (metres)</u>			
<u>Other</u>			
	<b>all included; see Report page 34 &amp;35</b>	<b>TOTAL COST</b>	<b>\$ 159 513</b>

# **Assessment Report on 2011 Activities on the Occurrence**

**MTO Event Number 5166367 (January 18, 2012)**

**Lillooet Mining Division  
British Columbia**

**NTS: 92O/006 (BCGS 1:20000)**

**Latitude 51<sup>0</sup> 1' 21"N, Longitude 122<sup>0</sup> 53' 4" W**

**Claim  
514957**

**Prepared for:**

**Ken Shannon  
Claim Owner**

**and**

**GFE Exploration Corporation  
Operator**

**By:**

**Twila Skinner, B.Sc., P .Geo. (BC)  
and  
Arnand van Heerden, B.Sc. Hons, P.Geo. (AusIMM)**

**Gold Fields Canada Exploration BV**

**February 23, 2012**

**BC Geological Survey  
Assessment Report  
32974**

# TABLE OF CONTENTS

<b>TABLE OF CONTENTS</b> .....	<b>II</b>
<b>LIST OF TABLES</b> .....	<b>IV</b>
<b>LIST OF FIGURES</b> .....	<b>IV</b>
<b>APPENDICES</b> .....	<b>V</b>
<b>1.0 SUMMARY</b> .....	<b>1</b>
<b>2.0 INTRODUCTION</b> .....	<b>2</b>
<b>3.0 RELIANCE ON OTHER EXPERTS</b> .....	<b>2</b>
<b>4.0 PROPERTY DESCRIPTION AND LOCATION, SIZE, ACCESS AND PHYSIOGRAPHY</b> .....	<b>3</b>
<b>5.0 HISTORY</b> .....	<b>7</b>
<b>6.0 GEOLOGICAL SETTING</b> .....	<b>10</b>
6.1 REGIONAL GEOLOGY.....	10
6.2 LOCAL GEOLOGY.....	12
<b>7.0 DEPOSIT TYPE</b> .....	<b>15</b>
<b>8.0 MINERALIZATION</b> .....	<b>15</b>
8.1 ROBSON OCCURRENCE.....	16
8.2 SILVERQUICK.....	16
8.3 TUNGSTEN KING.....	16
8.4 TUNGSTEN QUEEN.....	16
8.5 MANITOU.....	16
8.6 LUCKY JEM.....	17
8.7 LUCKY STRIKE.....	17
<b>9.0 EXPLORATION</b> .....	<b>17</b>
9.1 GEOLOGIC MAPPING AND PROSPECTING.....	17
9.2 TALUS FINE AND STREAM SEDIMENT SAMPLING.....	19
9.4 WATER QUALITY EVALUATION.....	22
9.5 ARCHAEOLOGICAL OVERVIEW ASSESSMENT (AOA).....	23
9.6 DIAMOND DRILLING.....	24
<b>10.0 SAMPLING METHOD AND APPROACH</b> .....	<b>28</b>
10.1 ROCK, TALUS FINES AND STREAM SEDIMENT SAMPLES.....	28
10.2 DRILL CORE.....	28
<b>11.0 SAMPLE PREPARATION, ANALYSES AND SECURITY</b> .....	<b>29</b>
11.1 ROCK, TALUS FINES AND STREAM SEDIMENT SAMPLES.....	29
11.2 DRILL CORE SAMPLES.....	30
<b>12.0 DATA VERIFICATION</b> .....	<b>31</b>
<b>13.0 INTERPRETATION AND CONCLUSIONS</b> .....	<b>32</b>

<b>14.0 STATEMENT OF EXPENDITURES.....</b>	<b>34</b>
<b>15.0 REFERENCES.....</b>	<b>36</b>
<b>16.0 STATEMENT OF QUALIFICATIONS .....</b>	<b>37</b>
16.1 CERTIFICATE OF QUALIFICATIONS- TWILA SKINNER .....	37
16.2 CERTIFICATE OF QUALIFICATIONS-ARNAND VAN HEERDEN.....	38
16.3 CERTIFICATE OF QUALIFICATIONS-ELEANOR BLACK .....	39

## LIST OF TABLES

TABLE 1: LIST OF EXPERTS.....	3
TABLE 2: LIST OF THE ELDORADO MINERAL CLAIMS .....	4
TABLE 3: ARIS REPORTS OF HISTORIC EXPLORATION (WITHIN PROJECT AREA) .....	9
TABLE 4: TABLE OF STATIGRAPHIC ROCK CODES.....	11
TABLE 5: BRITISH COLUMBIA MINFILE OCCURRENCES ON THE ELDORADO PROPERTY .....	15
TABLE 6: DRILL COLLAR TABLE .....	26
TABLE 7: COMPOSITE GRADE TABLE .....	26
TABLE 8: ALS MINERALS ANALYTICAL METHOD SPECIFICATIONS.....	31
TABLE 9: 2011 STATEMENT OF EXPENDITURES .....	35

## LIST OF FIGURES

FIGURE 1: ELDORADO PROPERTY LOCATION MAP.....	5
FIGURE 2: ROBSON OCCURRENCE TENURE MAP .....	6
FIGURE 3: REGIONAL GEOLOGY OF THE ELDORADO PROJECT.....	11
FIGURE 4: GEOLOGIC MAP OF THE ROBSON OCCURRENCE.....	18
FIGURE 5: ROCK SAMPLE LOCATION MAP .....	19
FIGURE 6: TALUS FINES SAMPLE LOCATION MAP .....	21
FIGURE 7: STREAM SEDIMENT SAMPLE LOCATION MAP .....	22
FIGURE 8: WATER SAMPLE STATION LOCATION MAP .....	23
FIGURE 9: DRILL COLLAR LOCATION MAP.....	26

## **APPENDICES**

- Appendix 1: Rock Sample Au Assay Results
- Appendix 2: XRF As Results (Sample Location Map)
- Appendix 3: Talus Fines Assay Results (pdf)
- Appendix 4: Stream Sediment Assay Results (pdf)
- Appendix 5: Water Sample Assay Results
- Appendix 6: Archaeology Overview Assessment (AOA) Report
- Appendix 7: Drill Log
- Appendix 8: Strip Log
- Appendix 9: Drill Section
- Appendix 10: Drill Core Assay Results (pdf)
- Appendix 11: XRF Analytical Method Specification Sheet
- Appendix 12: ALS Minerals Method Specification Sheets
- Appendix 13: Certified Standard Reference Material Assay Certificates
- Appendix 14: 2011 QAQC Summary Report

## 1.0 SUMMARY

This Report describes the CND\$0.160 million 2011 exploration program that was carried out from June 27, 2011 to September 15, 2011 on the Robson occurrence (Property) and covers MTO Event Number 5166367 (January 18, 2012).

Located in the Lillooet Mining Division, approximately 17 km north of Gold Bridge and 11 km northwest of Tyaughton Lake, the Property consists of 1 mineral claim encompassing an area of 304.97 hectares (ha). It is located at the southern end of the Stikinia geologic province, which hosts substantial Cu-Au porphyry prospects, and in close proximity of the Bralorne – Goldbridge historic mining camp, which produced 4.1Moz of gold between 1897 and 1971 (the Pioneer mine claims 7Mt of this, at 19 g/t Au - Hart, Marsh and Goldfarb; 2008).

The region surrounding the Property has been actively explored at various times since the early 1900s. The tenure is owned by Ken Shannon. On June 13, 2011, GFE Exploration Corporation (Gold Fields), a member of the Gold Fields Limited group of companies, signed an Option Agreement granting Gold Fields an option to earn up to 100% interest in the Robson occurrence (tenure # 514957).

The main objectives of the 2011 exploration program were to geologically map the area to determine the controls on the gold mineralization and to drill test potential mineralization. The combination of geochemical and/or geophysical anomalies was used to define drill targets. The program consisted of targeted detailed geologic mapping and prospecting, grid based extensional talus fines and stream sediment sampling, as well as diamond drilling.

Results of 2011 program included the identification of additional Au (Gold) and As (Arsenic) surface geochemical anomalies outside of the known historic NEA grid as well as sulphide mineralization at depth. Mineralization consists predominantly of massive arsenopyrite, pyrite, stibnite ( $\pm$  sphalerite, and chalcopyrite). Veining observed on surface as well as at depth typically consists of a series of low angle stacked veins with a north-easterly strike and easterly dip. A preliminary interpretation of the quartz diorite, based on surface and drill related observations, is the drilled section of the intrusion is a carapace of quartz diorite that has been “domed” up by a secondary wave of fluids. This event has caused a series of sub horizontal faults and cataclasite zones, including veining, which contains sulphide mineralization. Although a mineralized zone has yet to be defined, intervals of mineralization have been intersected at depth. Within the area drill tested grades range from 0.129 (g/t) to 0.741 (g/t) Au in ELD11-03. Mineralization is still open laterally in all directions and at depth.



## **2.0 INTRODUCTION**

This report is prepared by GFE Exploration Corporation (Gold Fields), the operator, for the Ken Shannon, the owner and covers MTO Event Number 5166367 (January 18, 2012). The Option Agreement (Agreement), signed June 13, 2011, grants Gold Fields the option to earn up to 100% interest in the Robson claim (tenure # 514957). The Robson occurrence is located in the Lillooet Mining Division; approximately 17 km north of Gold Bridge (*FIGURE 1*) and 11 km northwest of Tyaughton Lake. The property consists of 1 mineral claim encompassing an area of 304.97 hectares (*FIGURE 2*). The 2011 exploration program was managed and financed by Gold Fields.

This Report describes the CND\$0.160 million 2011 exploration program that was carried out from June 27, 2011 to September 15, 2011 on the Robson occurrence. The program consisted targeted detailed geologic mapping and prospecting, grid based talus fines and stream sediment sampling, as well as diamond drilling.

The work described in the Report was completed in the South Central Mining Region under and adhering to the British Columbia Mines Act Permit MX-4-521 Approval No 11-1620740-0715. A reclamation bond, as required by BC Ministry of Energy, Mines and Petroleum Resources, for the 2011 exploration program was posted and reclamation has been completed.

The Authors were onsite, in a managerial role, and actively involved in the 2011 exploration program. To the best of the Authors' knowledge all necessary permits, from the appropriate authorities, have been obtained to conduct the work proposed for the Property. The Authors are not aware of any environmental liabilities to which the Property is subject other than those that relate to British Columbia in its generality.

The metric system is used for all units of measure mentioned in the Report and all dollar amounts are in Canadian (CND) funds unless otherwise stated.

## **3.0 RELIANCE ON OTHER EXPERTS**

The Report is based primarily on data collected during the 2011 exploration program and data received from Ken Shannon as part of the Agreement. The Report contains information obtained from a review of relevant reports, including Assessment reports and non-technical reports, maps, technical data and interpretations available from various sources cited throughout the Report. The Authors have relied upon information including internal reports, maps, opinions and or statements provided by Gold Fields in-house experts to form interpretations and conclusions relevant to the Report. The Authors are responsible for all sections of the Report except for Section 12.0, Data Verification. Although the Authors were involved in the field implementation of

the QAQC program, they did not directly participate in the interpretation and evaluation of QAQC results. The Authors were aware of the process and the results of actions taken. The Authors believe the QAQC program has met all National Instrument 43-101 compliant protocols. *TABLE 1* below lists the experts and the relevant sections of their contributions. The Authors have not verified all information and takes no responsibility for its accuracy or completeness.

Reference to the compliance or non-compliance with NI 43-101 standards of historical information and data referred to in this Report are made where appropriate. The Authors do not offer any opinion concerning legal, title, environmental, political or other non- technical issues that may be relevant to the Report.

Name	Company	Relevant Topics	Relevant Section	Appendix
Eleanor Black, Senior Geologist and Database Manager	Gold Fields	QAQC	12.0	14

**TABLE 1: LIST OF EXPERTS**

#### **4.0 PROPERTY DESCRIPTION AND LOCATION, SIZE, ACCESS AND PHYSIOGRAPHY**

The Robson occurrence is located in the Lillooet Mining Division, of British Columbia, on NTS map sheets 0920/006 (BCGS 1:20000) at geographic coordinates of Latitude 51<sup>0</sup> 1'21" N, Longitude 122<sup>0</sup> 53'4" W and is contiguous with the Eldorado Property as shown on *FIGURE 1*. The Property is located north of the Village of Gold Bridge, situated approximately 100 km, by road, northwest of the City of Lillooet.

The property consists of 1 mineral claim with a total area of 304.97 ha. Surface rights are not included as part of mineral claim ownership under British Columbia mining regulations. Claim information, as taken from Mineral Titles Online on February 21, 2012, is listed in *TABLE 2* and Property outlines are shown in *FIGURE 2*. The claim is owned by Ken Shannon and is valid and in good standing.

The Property is composed of mountainous terrain with narrow immature glacial valleys and interconnected basins. The lower reaches of the property is vegetated by pine and fir forests that give way to a transition zone from alpine conifers (pine-spruce-fir) to low lying alders and alpine grasses and flowers which, on the steeper side hills, give way to rusty outcrops and scree slopes. Elevations vary from approximately 1,615 to 2,266 m above sea level. Small creeks and drainage systems are scattered across the Property. Outcrop and subcrop exposure across the Property is variable and is typically limited to steeper hillsides, ridge tops and areas disrupted by industrial activity such as logging, road building and historical exploration sites.

Tenure Number	Owner	Issue Date	Good To Date	Status	Area (ha)
514957	124369 (100%)	2005/jun/22	2022/feb/27	GOOD	304.968

**TABLE 2: LIST OF THE ELDORADO MINERAL CLAIMS**

The Property is accessible by a network of maintained arterial and Forest Service roads as well as unmaintained logging roads, skid trails, deactivated roads and various other historic roads. The Property is accessed from Gold Bridge, BC by travelling northeast via the Gold Bridge Highway 40 to either the Tyaughton Lake Road or the Marshall Main Road, then up a series of forest service roads. Late in 2005, Ainsworth Lumber extended the Bonanza Main logging road 5 km west, terminating in the NEA basin. With less than 200 m of trail, this road was linked to the historic mining trail/road network. Once to the Bonanza Main logging road, quads are used to provide access throughout the tenures. Helicopter access is available from Gun Lake, Tyaughton Lake or Lillooet.

Climatic conditions are typical of the eastern portion of the coastal mountains of British Columbia. Average minimum low temperatures for January are -6°C and average maximum highs for July are +28°C. There is an average of 60 frost free days a year, with snow expected any time after September 15<sup>th</sup>. Mean annual precipitation is 150 to 250 cm per year.

Although the Village of Gold Bridge is a small supply center, it has numerous services available such as lodging, fuel, groceries and other supply outlets. Gold Bridge is also a source for skilled labour. The City of Lillooet, 100 km by road southeast (~1.5hours drive) of Gold Bridge, is the closest major center and contains facilities such as a hospital, and supply stores not available in Gold Bridge. Ground surveys are most effective from mid-May to mid-October and are limited by snow accumulation or spring melt, whereas drilling can be conducted year round with the extra expense of snow removal.

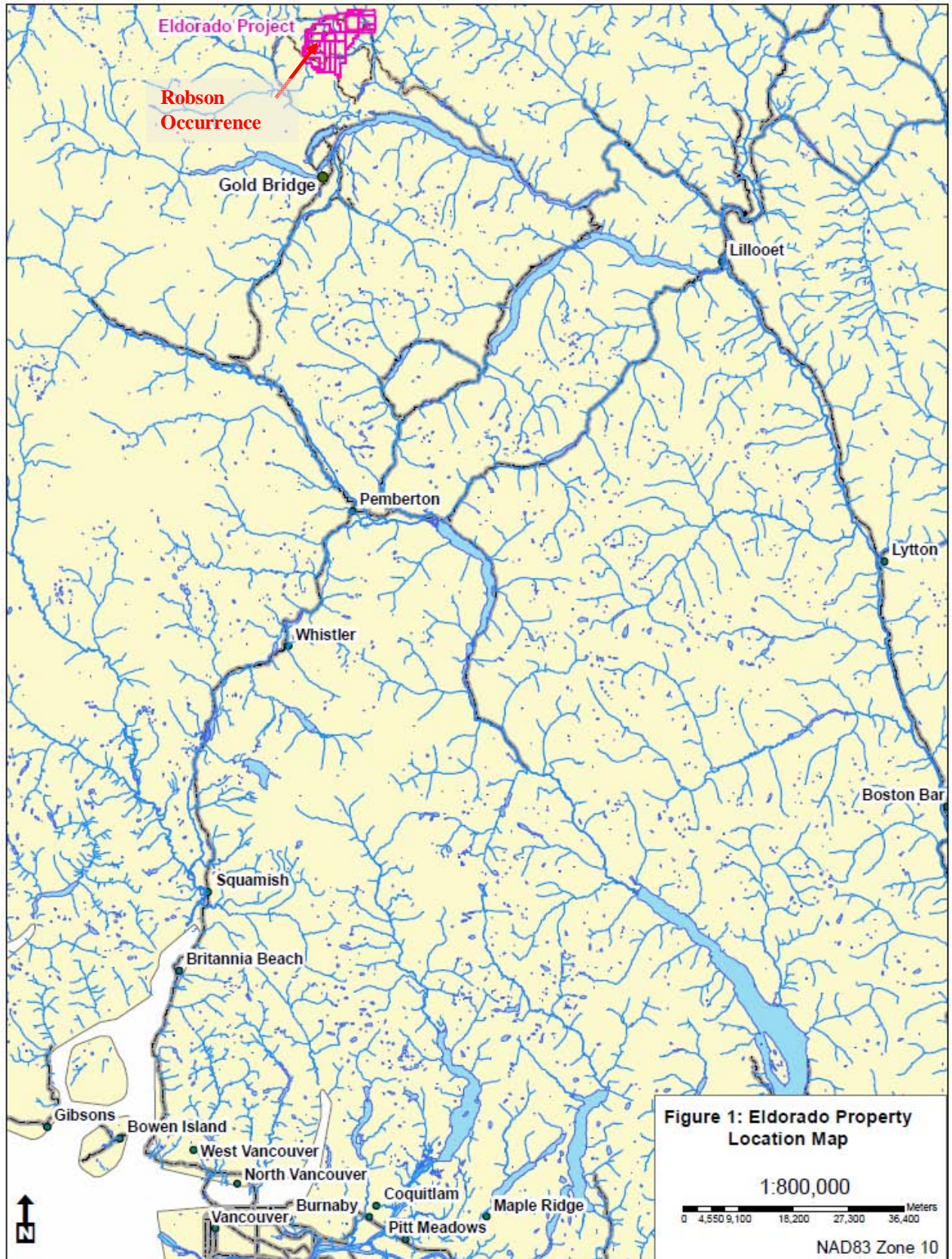
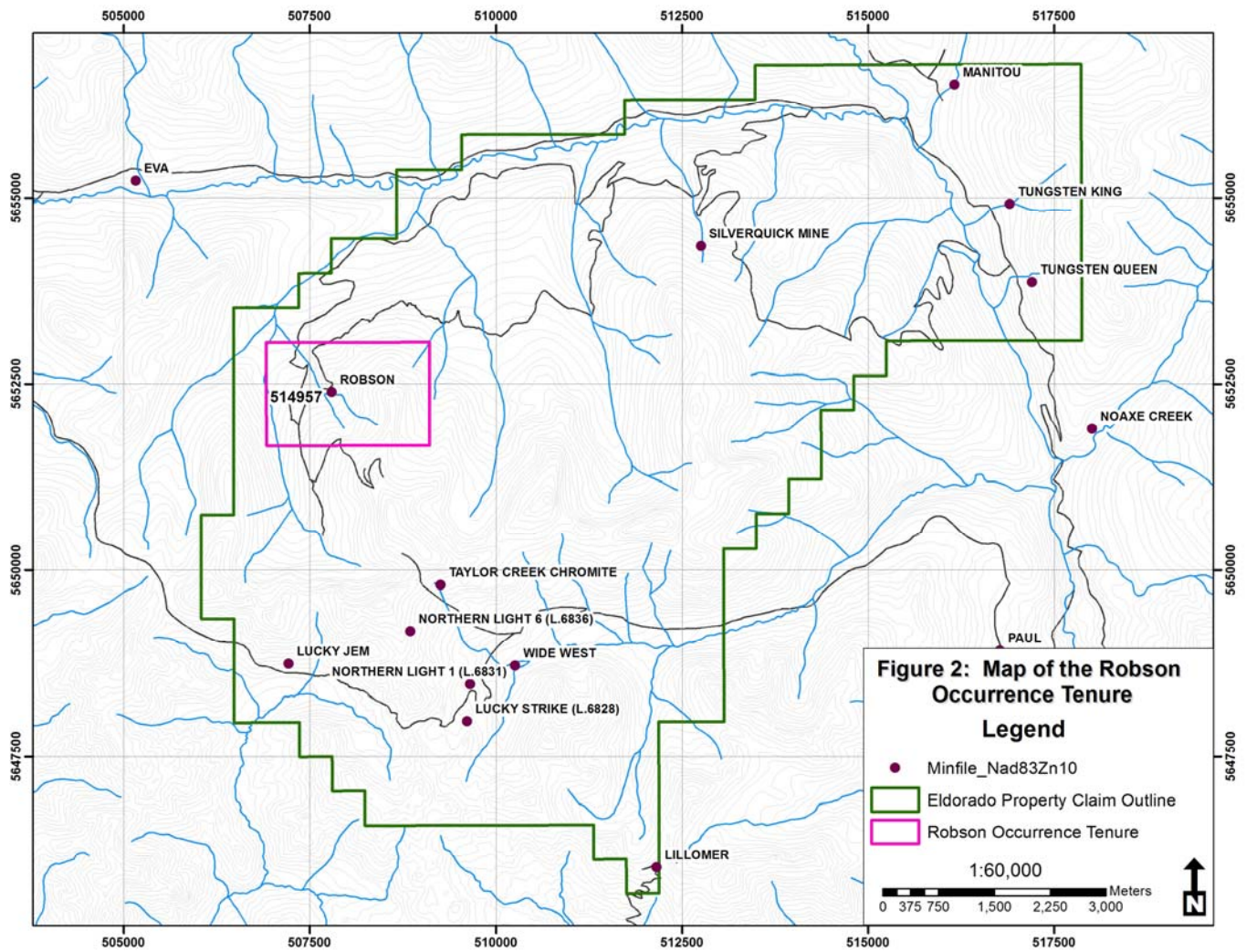


FIGURE 1: ELDORADO PROPERTY LOCATION MAP



**FIGURE 2: ROBSON OCCURRENCE TENURE MAP**

## 5.0 HISTORY

The region surrounding Robson occurrence has been actively explored at various times since the 1900s. There are with five past producers, including the Robson occurrence, in the immediate area including from west to east Robson, Silverquick, Tungsten King, Tungsten Queen and Manitou. Below is a brief description of these activities summarized from Durfeld (2010) and presented in Table 3.

Early exploration identified the Robson occurrence as a southwest trending and steeply dipping shear zone composed of seams and veins of predominantly quartz and auriferous arsenopyrite. Other metallic minerals identified were pyrite, jamesonite, sphalerite, chalcopyrite, stibnite, boulangerite, pyrrotite and pyrargyrite. Silica, carbonate and chlorite alteration are associated with the mine. The Robson deposit, mined in 1939 and 1940, produced a total of 34 tonnes of ore which yielded 18 kg of silver, 2.2 kg of gold, 193 kg of copper and 2640 kg of lead. In 1986, a 0.79 m diamond drill interval of the vein structure assayed 468.95 grams per tonne silver and 45.24 grams per tonne gold.

The Silverquick mercury deposit is hosted in extremely fractured and sheared chert pebble conglomerate and interbedded sandstone-shale and chert lithic quartz arenite of the Upper Cretaceous Silverquick Formation. Cinnabar is present as disseminated grains, streaks and small lenses within the brecciated conglomerate and accompanied by quartz, calcite, limonite and clay. The mine produced most of its ore in the early to mid 1960's and yielded about 3180 kg of mercury. About 34 kg of mercury were produced in 1955.

The Tungsten King deposit is hosted within quartz-carbonate-mariposite rock, or listwanite and dolomite which is intensely brecciated, recrystallized and sheared. Feldspar porphyry dykes intrude the listwanite, although not immediately adjacent to the significant metal concentrations. Quartz veins with scheelite and stibnite were first discovered within a two-metre wide fracture zone in brecciated recrystallized and sheared dolomite. Stibnite veins and disseminations also occur within listwanite. Cinnabar (for which the area was first prospected) occurs as films along shear planes as well as disseminations within foliated greenstone and listwanite, peripheral to the main scheelite-stibnite showings. In 1942 and 1952, about 34 tonnes of ore were mined grading about 5% tungsten trioxide ( $WO_3$ ).

The Tungsten Queen deposit occurs near the south end of a large fault-bound body of quartz-carbonate altered serpentinite (quartz-carbonate-mariposite rock, or listwanite) assigned to the Shulaps Ultramafic Complex. All these rocks are cut by irregular bodies and dykes of (Tertiary?) feldspar porphyry. The Tungsten Queen deposit consists of eight scheelite-bearing veins of variable thickness and continuity. Almost all of the veins strike northeast with most terminated by faults

and adjacent tectonically emplaced Bridge River rocks. The principal vein, number 6, which yielded most of the high grade ore, was up to 18 cm thick and continuous for 21 m. Other scheelite-bearing veins are much smaller. The veins consist of massive, almost pure white scheelite, with stibnite, quartz and carbonate. It is reported that between 1940 and 1953, 7,896 kg of tungsten trioxide ( $WO_3$ ) were recovered from 55 tonnes of ore; 41 tonnes had been mined by 1943 with the remainder being mined in 1952 and 1953. Virtually all scheelite-bearing material has been mined out.

The Manitou mercury deposit, 800 m northeast of the confluence of Relay and Tyaughton creeks, is hosted by a foliated greenstone and along contacts between greenstone and ribboned chert of the Mississippian to Jurassic Bridge River Complex (Group). The rocks are extremely faulted and principal shear zones trend north and northwest. Mercury occurs as cinnabar, chiefly with foliated green and purple volcanic rocks (greenstone) along foliation and shear places. Recorded production, from 1938 to 1939, is 141.5 tonnes of ore which yielded 542.5 kg of mercury (National Mineral Inventory 09202 Hg1). There was not a lot of exploration conducted in the area after the closure of the Silverquick Mine until the late 1970's. Much of the property area was explored until mid 1980's. The last drilling was on the Robson in 1986. Durfeld and Stewart acquired their tenure in the area since 2003 by staking.

To the south of the project area two additional historically significant prospects were exploited in the early 1900's; Lucky Jem and Lucky Strike. Lucky Jem is situated to the south west of the claims group and Lucky Strike occurs to the south east. The Lucky Jem was first staked in 1910 and two adits, which have since caved in, were later driven. This occurrence is characterized by high grade arsenic-gold-antimony veins associated with altered quartz diorite on contact with the Hurley Formation sediments. The width of the vein is unknown but gold content is high. The gold is believed to be associated with the arsenopyrite. No further development of these adits followed, probably as a result of the small quantity of vein material. The Lucky Strike consists of two adits: an upper and a lower, dating back to 1937. Both adits are still accessible. They follow a quartz vein containing abundant mariposite, arsenopyrite and pyrite to where the vein is terminated at a fault. The maximum width of the vein is about seven feet wide and is hosted in the fine grained ultramafic rocks, which forms part of the ophiolitic sequence that is interpreted to be thrust on to the Eldorado intrusive stock and surrounding sediments. A surface grab sample collected from this vein during the 2011 field season has returned a gold value of 67.7 g/t.

In 2005 RM Durfeld conducted a prospecting and silt sampling program on the upper Bonanza/Robson areas with the aim to expand the project area to include the Silverquick, Tungsten King, Tungsten Queen and Manitou past producers. During this work banded quartz sulphide veins with high grade gold (up to 94.8 g/t) were identified. Mineralization was found to be associated with arsenopyrite, pyrite ± stibnite, galena and sphalerite. Pyrite is reported to occur as

disseminations and veins, while the other sulphides are generally restricted to quartz veins and fractures (Durfeld, 2005). Additional prospecting and geochemical work was conducted by Durfeld between 2005 and 2007.

In 2007 RM Durfeld followed up with a geologic mapping, prospecting and geochemical sampling (rock and silt) program within the NEA/Robson, Bruce Creek, Silverquick and Tungsten King/Queen areas of the Eldorado Property. This program identified additional areas of intrusive activity, alteration and anomalous mineralization. A rock sample within the Eldorado stock returned an assay value of 1040ppm (Durfeld, 2010).

In 2008 and 2009 RM Durfeld conducted a geological mapping and prospecting and geochemical (rock, silt and soil) sampling program to refine targets within the NEA/Robson, Bruce Creek, Silverquick and Tungsten King/Queen areas of the Eldorado Property. The program identified additional areas of intrusive activity, alteration and/or anomalous mineralization (Durfeld, 2010).

ARIS#	Date	Operating Company	Work Completed
5659	1975	Chevron Standard Ltd	Geological Mapping and Geochemical Survey
6002	1976	Chevron Standard Ltd	Geological Mapping and Geochemical Survey
9545	1981	Westmin Resources Ltd	Trenching, Roadwork and Geochemical Survey
10676	1982	Westmin Resources Ltd	Geochemical Survey
10948	1982	Westmin Resources Ltd	Geochemical Survey
11930	1983	Geomex Canada Resources Ltd	Geological Mapping and Geochemical Survey
11931	1983	Geomex Canada Resources Ltd	Geological Mapping and Geochemical Survey
12496	1984	Placer Development Ltd	Geophysical and Geochemical Survey
12763	1984	Westmin Resources Ltd	Geological Mapping and Geochemical Survey
13666	1985	Golden Rule Resources Ltd	Geological Mapping and Geochemical Survey
13709	1985	Placer Development Ltd	Geological, Geophysical and Geochemical Survey
14428	1985	Cinnabar Resources Ltd	Geophysical and Geochemical Survey
14812	1986	Golden Rule Resources Ltd	Geophysical Survey
14932	1986	Hillside Energy Corporation	Geochemical Survey
18056	1988	Millennium Resources Ltd	Diamond Drilling Assessment
18373	1988	Golden Rule Resources Ltd	Geological Mapping and Geochemical Survey
28124	2005	RM Durfeld - P.Geol.	Geological Mapping and Geochemical Survey
28825	2006	RM Durfeld - P.Geol.	Geological Mapping and Geochemical Survey
30065	2008	RM Durfeld - P.Geol.	Geological Mapping and Geochemical Survey
31133	2010	RM Durfeld - P.Geol.	Geological Mapping and Geochemical Survey

**TABLE 3: ARIS REPORTS OF HISTORIC EXPLORATION (WITHIN PROJECT AREA)**



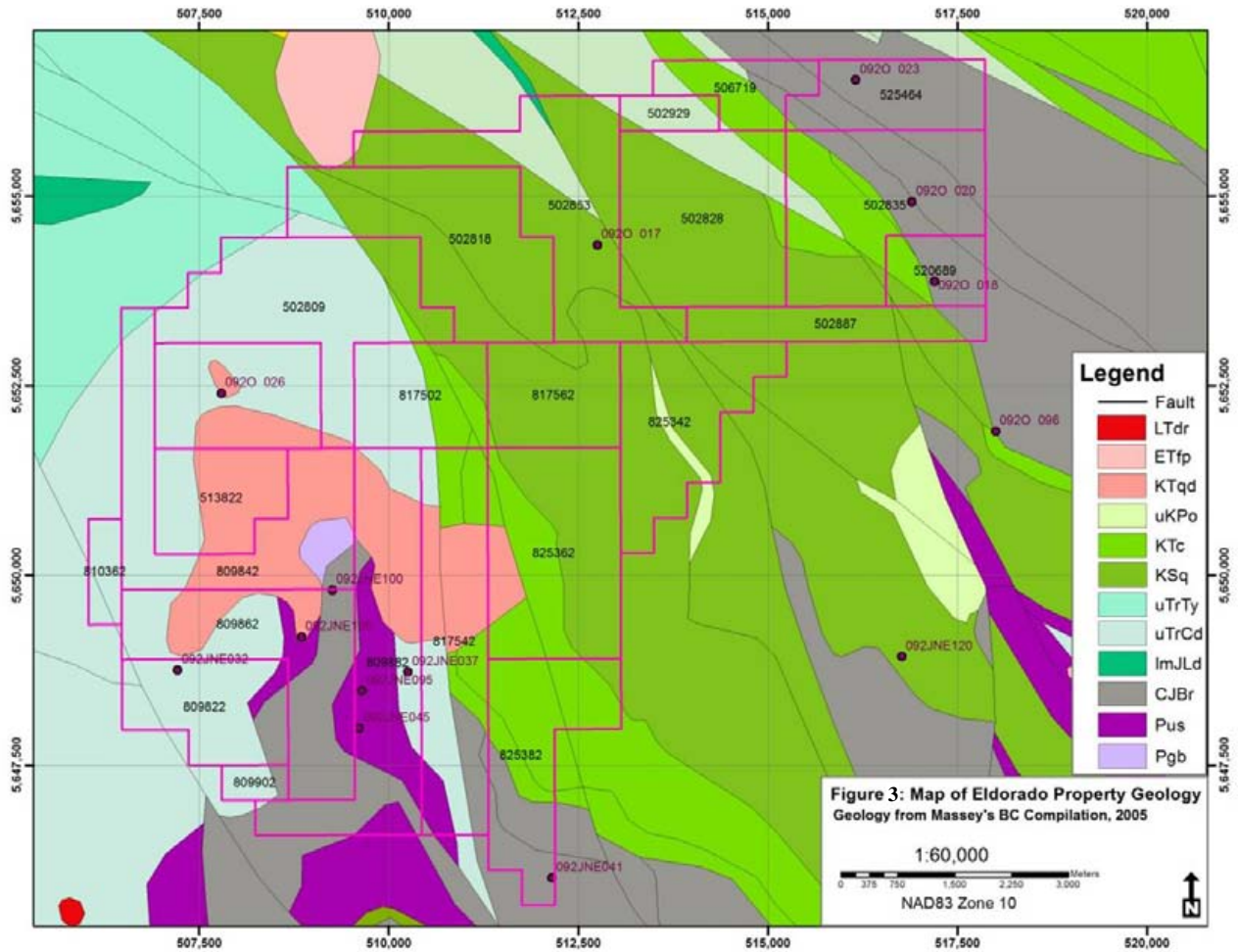
## **6.0 GEOLOGICAL SETTING**

The geological setting of the Robson occurrence and surrounding area has been well documented in numerous papers and reports written by various companies and organizations and is summarized from Durfeld, 2010. The geology is shown in *FIGURE 4* with the geology layer for the Massey compilation (2005), released by the BC government with the stratigraphic rocks shown in *TABLE 4*.

### **6.1 REGIONAL GEOLOGY**

The Coast geomorphic belt, an area of rugged mountainous terrain underlain by Late Jurassic to Early Tertiary granitic rocks of the Coast Plutonic Complex, covers the Project area. Specifically, the project is in the southeastern portion of the Coast Belt, and contains a small percentage of granitic rocks that are mid-Cretaceous to early Tertiary in age. The supracrustal rocks include rocks of the Bridge River, Cadwallader and Methow terranes that originated in ocean basins, volcanic arc and clastic basin environments respectively. These late Paleozoic to Cretaceous age units are juxtaposed across a complex system of contractional, strike-slip and extensional faults of mainly Cretaceous and Tertiary Age.

The imbricated chert, clastics, limestone, greenstone and serpentinite, in the southern project area, belong to the Mississippian to mid Jurassic age Bridge River Complex (MmJBgs). The central to eastern project area documents sedimentary basinal deposition from Upper Triassic to Cretaceous time. The siltstones and shales of the Hurley Formation (uTrCHs) belong to the Upper Triassic clastic deposition of the Cadwallader Terrane. The Upper Triassic Tyaughton Group (uTrTy) to the northwest of the Hurley represents a non-marine to shallow marine facies equivalent of the Hurley Formation. The lower Cretaceous age sandstones, siltstones and conglomerates of Taylor Creek Group; Dash (IKTD) and Lizard (IKTL) Formations form the west and east limbs of a core non-marine conglomerate and finer clastics of the Cretaceous age Silverquick Formation (KSq). The Silverquick formation, the youngest unit underlies the central property area.



**FIGURE 3: REGIONAL GEOLOGY OF THE ELDORADO PROJECT.**

Unit Description	Strat Unit	Map Colour
Midr - Cenozoic - Unnamed dioritic intrusive rocks	LTdr	red
Efp - Cenozoic - Unnamed feldspar porphyritic intrusive rocks	ETfp	pink
LKTqd - Mesozoic to Cenozoic - Unnamed quartz dioritic intrusive rocks	KTqd	coral
uKPoc - Mesozoic - Powell Creek Formation volcanoclastic rocks	uKPoc	lt green
IKTL - Mesozoic - Taylor Creek Group - Lizard Formation undivided sedimentary rocks		
IKTD - Mesozoic - Taylor Creek Group - Dash Formation undivided sedimentary rocks	KTc	bright green
IKTLsc - Mesozoic - Taylor Creek Group - Lizard Formation coarse clastic sedimentary rocks		
KSq - Mesozoic - Silverquick Formation conglomerate, coarse clastic sedimentary rocks	KSq	green
uTrTy - Mesozoic - Tyaughton Group conglomerate, coarse clastic sedimentary rocks	uTrTy	aqua
uTrChsc - Mesozoic - Cadwallader Group - Hurley Formation coarse clastic sedimentary rocks	uTrCd	lt grey
uTrChs - Mesozoic - Cadwallader Group - Hurley Formation undivided sedimentary rocks		
ImJLc - Mesozoic - Last Creek Formation undivided sedimentary rocks	ImJLd	dk green
MmJBgs - Paleozoic to Mesozoic - Bridge River Complex greenstone, greenschist metamorphic rocks	CKBr	grey
MmJBsv - Paleozoic to Mesozoic - Bridge River Complex marine sedimentary and volcanic rocks		
PBEus - Paleozoic - Bralorne-East Liza Complex serpentinite ultramafic rocks	Pus	magenta
PBEgb - Paleozoic - Bralorne-East Liza Complex gabbroic to dioritic intrusive rocks	Pgb	lilac

(CODES FROM MASSEY'S BC COMPILATION, 2005)

**TABLE 4: TABLE OF STRATIGRAPHIC ROCK CODES**

In the central Project area, the biotite hornblende quartz diorite and granodiorite Eldorado stock (LKTgd) occupies the upper NEA basin. At the northern margin of the tenures lies a north-south elongate Eocene feldspar porphyry intrusive body (Efp).

Complex Cretaceous to Tertiary Age north to north westerly trending faults and thrusts juxtapose the clastic rocks. These structures are often healed with quartz carbonate sulphide veins.

A one kilometre zone of hornfels (biotite, pyrite) envelopes the Eldorado stock contact, developing a strong gossan in the NEA Basin. A narrower zone of clay alteration is noted as bleaching close to the stock contact. Clay alteration was also noted in the area of the Silverquick, Tungsten King and Tungsten Queen. Quartz carbonate alteration occurs as matrix flooding, vein breccia and veining throughout the NEA Basin and at the Silverquick, Tungsten Queen and Tungsten King prospects. The Robson and Drabble vein structures occur in strong hornfels and sheared sediments immediately north of the intrusive contact.

## **6.2 LOCAL GEOLOGY**

The Robson Occurrence and surrounding area is underlain by thick siltstone to sandstone turbidite sequences of the Upper Triassic Hurley Formation. The turbidites are juxtaposed against the Lower Cretaceous Taylor Creek Group conglomerates and interbedded fine sandstone to shale. A black shale marker bed within the Taylor Creek Group is observed in close proximity to the inferred contact of the Hurley turbidites. A 5 km by 4 km diorite to quartz diorite intrusion of the Upper Cretaceous Coast Crystalline Complex is dominant in the center of the Robson occurrence and the Eldorado Property. To the south of the Property there are Lower Jurassic President ultramafics and Paleozoic Fergusson Group chert and quartzite beds, associated with ophiolitic sequences thrust onto the dioritic intrusion and surrounding sediments.

Historical mapping of the project area has shown it to be highly faulted and folded. The Hurley turbidites have strong parasitic folding in a larger north-easterly trending syncline (Church, 1988), and are highly fractured and locally appear randomly oriented possibly due to minor faulting thought to be related to the dioritic intrusion, and regional faulting and thrusting. The Taylor Creek Formation in general strikes north-south with a moderate westerly dip. The Taylor Creek Formation appears to be overturned with a younging direction towards the east, based on field observations near the Silverquick mine and Taylor Creek basin. The dioritic intrusion shows little surface expression of faulting; however, strong breaks in aeromagnetic data suggest the intrusion is faulted. Field observations indicate that the contact between the diorite and surrounding sediments is intrusive, which is supported by the strong biotite-quartz-pyrite hornfels of turbidites and conglomerates forming a thermal aureole around the intrusion. The ophiolite sequences are likely thrust on top of the younger

sediments and dioritic intrusion based on age differences as well as on the abundant minor fault surfaces with slickensides found throughout the ophiolitic rocks.

Hydrothermal alteration is dominantly found within the dioritic intrusion and ultramafics where in close proximity with the diorite. The alteration is characterized by moderate to strong iron-carbonate-quartz veining and associated halos occurring as a low angle stacked series of veins with a north-easterly strike and easterly dip. The alteration is texturally destructive of mafic minerals and feldspars where strong. Dominant mineralization associated with the iron-carbonate-quartz veining is pyrite-arsenopyrite-stibnite ( $\pm$ chalcopyrite  $\pm$ gold). This mineral assemblage is also found as individual 1-10cm high grade veins in the ultramafics, Hurley Formation Turbidites, and rarely in the dioritic intrusions.

As described above, the Robson occurrence and surrounding area are characterized by mainly five lithological occurrences summarized below.

#### ***COAST COMPLEX QUARTZ DIORITE (CRETACEOUS)***

In the central portion of the claims area is a saddle shaped suite of intrusive rocks characterized as grey to dark grey, medium grained diorite to quartz diorite with a 30-40% mafic minerals (biotite), 60-70% grey feldspar and up to 10% quartz. Texturally it appears porphyritic to equigranular with weak to moderate chloritization around fracture planes. The intrusive complex is comprised of at least two phases. A massive equigranular quartz diorite phase appears to be pre and syn mineralization, while a weakly porphyritic phase cross-cuts mineralized zones as dykes. Distinct alteration zones observed in the field appears to be low angled stacked sequences characterized by iron carbonate/silica of ankeritic composition. Alteration is associated with veining of the same composition with a dominant orientation in a north northwest direction. Mineralization in veins are predominantly arsenopyrite, pyrite, stibnite ( $\pm$ sphalerite, galena and chalcopyrite).

#### ***HURLEY FORMATION TURBIDITES (TRIASSIC)***

To the west, south and east of the main quartz diorite intrusion is an area covered by hornfelsed Cadwallader Group Hurley formation turbidites. The turbidites are light grey to black on fresh surfaces and weather a rusty orange. They are characterized by alternating fine siltstone to sandstone beds than can be a few millimetres to several centimetres thick. In general the coarser grained beds are lighter in colour than the finer grained beds. With limited exceptions of the turbidites along the northern limits of the "Robson Claim", all the turbidites mapped showed a moderate to strong hornfelsing due to being within the metamorphic aureole of the quartz diorite intrusion. The hornfelsing is characterized by a recrystallization of quartz grains within the beds, local very fine biotite growth, and local very fine disseminated pyrite. Due to the pyrite the rusty weathering of the turbidites is most intense immediately adjacent to the main quartz diorite intrusion. 1cm to 10cm sheeted quartz veins are observed with

pyrite, arsenopyrite and stibnite along vein margins and/or disseminated around veins. At the centimetre to metre scale, the turbidites appear under deformed. However measurements over tens of meters, and exposures visible in steep cliff faces, show the unit to be highly deformed likely in parasitic folds to larger fold structures.

### ***TAYLOR CREEK CONGLOMERATE (LOWER CRETACEOUS)***

To the east of the main quartz diorite intrusion is a thick sequence of conglomerate that extends to the edge of the tenured claims. The unit is dominated by dark grey-green clast supported pebble to boulder conglomerate approximately 10m thick, with 1-2m interbeds of coarse sandstone to shale. Clasts are predominantly chert, sandstone, shale, and rare dioritic fragments. Within the Taylor Creek group, only a few hundred meters from the western margin, is a marker bed of grey sandstone to black shale approximately 500 m thick. Within a couple hundred meters of the main quartz diorite intrusion, the conglomerate has a moderate pervasive recrystallization of quartz in the groundmass and in clasts. Beyond the thermal aureole the unit is relatively unaltered with the exception of narrow iron oxide stained zones. The unit is dipping to the west at approximately 40°, except in the vicinity of Silverquick mine where bedding is steeply dipping to the east or vertical. Graded bedding, where visible, indicates that the unit is overturned with a younging direction towards the east. However, evidence both supporting and contradicting this younging direction has been found by other mappers in the area (Church 1995-3, pg. 31).

### ***ULTRAMAFICS (JURASSIC-CRETACEOUS)***

To the south of the main quartz diorite intrusion is a wedge of ultramafic rocks interpreted to have been thrust up onto the Hurley sediments and main quartz diorite intrusion. The ultramafics are dominated by serpentized peridotite cross-cut by leucocratic veinlets of unknown composition. This combined with small 2-3 mm pyroxene (?) phenocrysts give the rock a rough surface texture. The rock has a moderate to strong cataclastic texture with fuchsite and serpentine alteration observed within the fine groundmass. Locally the ultramafics are characterized by interbeds of a darker maroon-black rock and are highly deformed with strong shear fabrics and abundant fault surfaces coated with slickensides. The ultramafics, clustered with the Fergusson Ribbon Chert, comprises the ophiolitic sequence observed within the project area.

### ***FERGUSSON RIBBON CHERTS (PALEOZOIC)***

Found within the ultramafic wedge, the chert is light grey to white with an undulating ribbon-like texture. The ribbons are different bedding planes 2-4 cm wide. Localized, in close proximity of the quartz diorite, the chert appears to have been recrystallized producing 1-2 mm sized quartz crystals or grains, and minor fine grained biotite. Locally abundant quartz veinlets are observed cross-cutting this sequence. The undulating banding of the chert as well as a weak gneissosity are the main structural features and could be the result of being thrust onto the quartz diorite intrusion and surrounding sediments.

## 7.0 DEPOSIT TYPE

A suitable analogy for mineralization controls on the Robson occurrence is not well understood and additional work is needed. Current theories are based on historic work and analogies available from the numerous occurrences in the immediate area of the Property. Regionally, the Bridge River-Bralorne district forms a zoned mineral district with gold ± tungsten in the southwest zone, antimony ± lead, zinc, silver and gold in a central zone, and mercury ± antimony and gold in the northeast zone. A fluid inclusion and oxygen isotopic study conducted by Hart, Marsh and Goldfarb in 2008 concluded that quartz veins from antimony and mercury rich mineral systems in the district are most likely derived from either magmatic or metamorphic hydrothermal fluids, due to the presence of CO<sub>2</sub> in fluid inclusions (*Hart, Marsh and Goldfarb;2008*). This work supports a possible mineralization model for the Eldorado district that correlates well to the epizonal portions of an orogenic system such as Donlin Creek. An alternative model could be a reduced intrusion related gold system, but field observations are better suited to the former model. The district represents an underexplored metallogenic region which is gold rich and could have the potential to host gold deposits of bulk mineable scale.

## 8.0 MINERALIZATION

Mineralization across the project area is dominated by visible arsenopyrite, pyrite, minor chalcopyrite, sphalerite and stibnite. Gold, although common throughout, is not visible and is likely associated with arsenopyrite, pyrite and/or stibnite mineralization. To date this relationship has not been confirmed and may vary throughout the Property. Mineralization is found within quartz ± carbonate veining, within vein margins, as disseminations outside of the veining and along fractures hosted in quartz diorite (multi-phase intrusive) and turbiditic, hornfelsed sediments (Hurley Formation). Geologic controls on mineralization have yet to be defined.

From historic records, mineralization has been documented from 5 past producers, including the Robson occurrence, from west to east they are the Robson, Silverquick, Tungsten King, Tungsten Queen and Manitou. There are two prospects to the south, Lucky Jem and Lucky Strike.

MINFILE #	NAME 1	NAME 2	STATUS	UTM EAST (Zone 10)	UTM NORTH (Zone 10)	ELEVATION (m)	COMMODITY	DEPOSIT TYPE
092.JNE032	LUCKY JEM	BOB	Prospect	507213	5648749	2010	Au, Ag	Polymetallic veins Ag-Pb-Zn-Au
092.JNE037	WIDE WEST		Showing	510255	5648723	1460	Au, Cu	Au skarn
092.JNE041	LILLOMER	CHARLOTTE	Prospect	512152	5646009	2100	Hg	Silica-Hg carbonate
092.JNE045	LUCKY STRIKE	URAL	Prospect	509613	5647980	1950	Au, Ag, Zn, Pb, Cu	Polymetallic veins Ag-Pb-ZnAu
092.JNE095	NORTHERN LIGHT 1	GOLDSIDES PROJECT	Prospect	509651	5648475	1966	Au, Ag	Polymetallic veins Ag-Pb-Zn-Au
092.JNE100	TAYLOR CREEK CHROMITE		Showing	509259	5649802	2250	Cr, Ni	Podiform chromite
092.JNE105	NORTHERN LIGHT	GOLDSIDES PROJECT	Prospect	508850	5649184	2241	Au, Cu, Ag, Zn, As	Polymetallic veins Ag-Pb-ZnAu
092O 017	SILVERQUICK MINE	TYAUGHTON CREEK	Past Producer	512756	5654351	1669	Hg	Silica-Hg carbonate
092O 018	TUNGSTEN QUEEN	PHILLIPS' TUNGSTEN	Past Producer	517198	5653869	1356	Wo, Sb, Hg, Au	Au-quartz veins
092O 020	TUNGSTEN KING	CINNABAR KING	Past Producer	516902	5654919	1340	Wo, Sb, Hg	Au-quartz veins
092O 023	MANITOU	EMPIRE	Past Producer	516157	5656522	1234	Hg	Silica-Hg carbonate
092O 026	ROBSON	BONANZA	Past Producer	507793	5652395	1737	Au, Ag, Pb, Zn, Cu	Polymetallic veins Ag-Pb-ZnAu

**TABLE 5: BRITISH COLUMBIA MINFILE OCCURRENCES ON THE ELDERADO PROPERTY**

### **8.1 ROBSON OCCURRENCE**

Early exploration identified the Robson occurrence as a southwest trending and steeply dipping shear zone composed of seams and veins of predominantly quartz and auriferous arsenopyrite. Other metallic minerals identified were pyrite, jamesonite, sphalerite, chalcopyrite, stibnite, boulangerite, pyrrotite and pyrargyrite. Silica, carbonate and chlorite alteration are associated with the mine.

### **8.2 SILVERQUICK**

The Silverquick mercury deposit, is hosted in extremely fractured and sheared chert pebble conglomerate and interbedded sandstone-shale and chert lithic quartz arenite of the Upper Cretaceous Silverquick Formation. Cinnabar is present as disseminated grains, streaks and small lenses within the brecciated conglomerate and accompanied by quartz, calcite, limonite and clay.

### **8.3 TUNGSTEN KING**

The Tungsten King deposit is hosted within quartz-carbonate-mariposite rock, or listwanite and dolomite which is intensely brecciated, recrystallized and sheared. Feldspar porphyry dykes intrude listwanite, although not immediately adjacent to the significant metal concentrations. Quartz veins with scheelite and stibnite were first discovered within a two-metre wide fracture zone in brecciated recrystallized and sheared dolomite. Stibnite veins and disseminations also occur within listwanite. Cinnabar (for which the area was first prospected) occurs as films along shear planes as well as disseminations within foliated greenstone and listwanite, peripheral to the main scheelite-stibnite showings.

### **8.4 TUNGSTEN QUEEN**

The Tungsten Queen deposit occurs near the south end of a large fault-bound body of quartz-carbonate altered serpentinite (quartz-carbonate-mariposite rock, or listwanite) assigned to the Shulaps Ultramafic Complex. All these rocks are cut by irregular bodies and dykes of Tertiary (?) feldspar porphyry. The Tungsten Queen deposit consists of eight scheelite-bearing veins of variable thickness and continuity. Almost all of the veins strike northeast with most terminated by faults and adjacent tectonically emplaced Bridge River rocks. The principal vein, number 6, which yielded most of the high grade ore, was up to 18 cm thick and continuous for 21 m. Other scheelite-bearing veins are much smaller. The veins consist of massive, almost pure white scheelite, with stibnite, quartz and carbonate.

### **8.5 MANITOU**

The Manitou mercury deposit, 800 m northeast of the confluence of Relay and Tyaughton creeks, is hosted by a foliated greenstone and along contacts between greenstone and ribboned chert of the Mississippian to Jurassic Bridge River Complex (Group). The rocks are extremely faulted and principal shear zones trend north and northwest. Mercury occurs as cinnabar, chiefly with foliated green and purple volcanic rocks (greenstone) along foliation and shear places.

## **8.6 LUCKY JEM**

Lucky Jem was first staked in 1910 and two adits, which have since caved in, were later driven. This occurrence is characterized by high grade arsenic-gold-antimony veins associated with altered quartz diorite on contact with the Hurley Formation sediments. The width of the vein is unknown but gold-content is high. The gold is believed to be associated with the arsenopyrite. No further development of these adits followed, probably as a result of the small quantity of vein material.

## **8.7 LUCKY STRIKE**

The Lucky Strike consists of two adits: an upper and a lower, dating back to 1937. Both adits are still accessible. They follow a quartz vein containing abundant mariposite, arsenopyrite and pyrite to where the vein is terminated at a fault. The maximum width of the vein is about seven feet wide and is hosted in the fine grained ultramafic rocks, which forms part of the ophiolitic sequence that is interpreted to be thrust on to the Eldorado intrusive stock and surrounding sediments. A surface grab sample collected from this vein during the 2011 field season has returned a gold value of 67.7 g/t.

## **9.0 EXPLORATION**

The 2011 exploration program was conducted from June 27, 2011 to September 15, 2011. The main objectives of the 2011 exploration program were to geologically map the area to determine the controls on the gold mineralization and to drill test potential mineralization. The combination of geochemical and/or geophysical anomalies was used to define drill targets. The program consisted of targeted detailed geologic mapping and prospecting, grid based talus fine and stream sediment sampling, as well as diamond drilling.

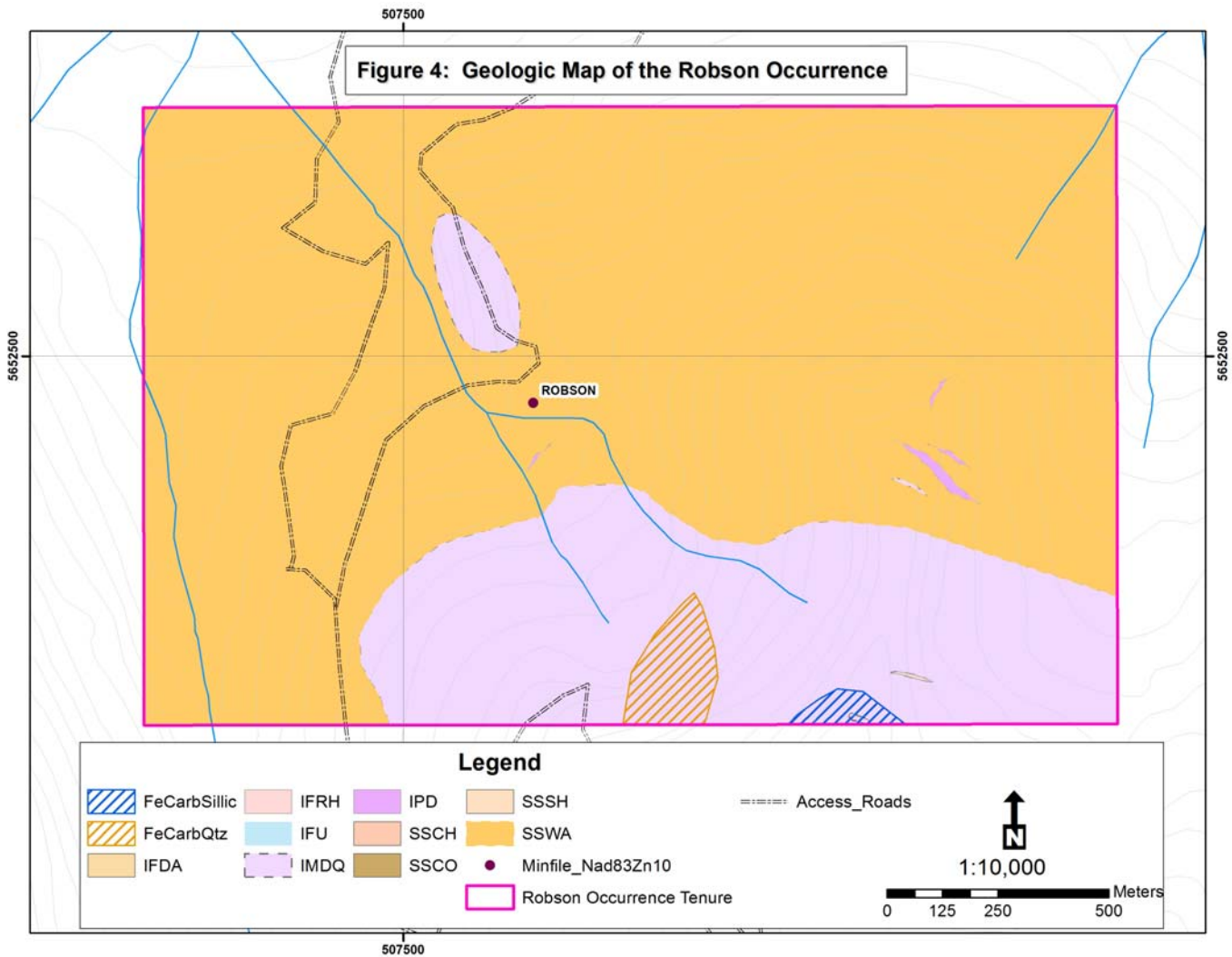
### **9.1 GEOLOGIC MAPPING AND PROSPECTING**

Geologic mapping and prospecting across the Property was conducted between June 29, 2011 and August 13, 2011. The area was mapped and prospected by Matt Eckfeldt, Ross Sherlock, and Arnand van Heerden of Gold Fields. The 2011 program was designed to refine the contacts of the dioritic intrusion, other surrounding lithologies and to map alteration and mineralization where exposed. Exposure of bedrock across the property is limited due to thick talus cover and is typically restricted to steeper hillsides, ridge tops and road cuts. Talus and float occurrences however, are a good proxy for outcrop. In all areas of mapping, geologic interpretations were based on contact relationships, geometry, airborne magnetics and historical geological interpretation. Representative samples of lithologies, alteration and mineralization were taken where available and assayed by ALS Minerals (*APPENDIX 2*). Reduced to pole (RTP) airborne magnetic data collected in 2011 was used for interpretation of regional structures and geologic



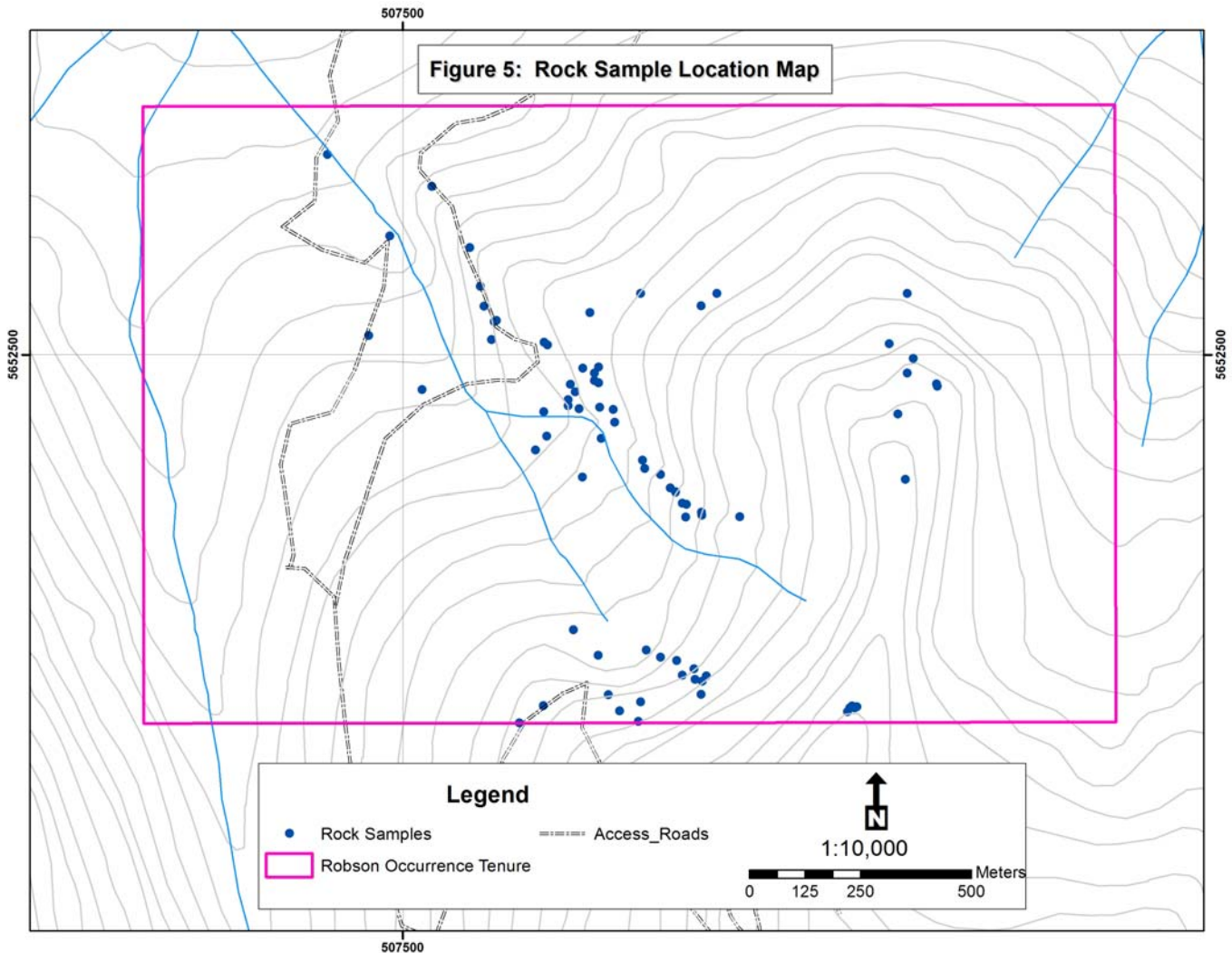
boundaries. The strike and dip of structures were measured in the field using the “right hand rule”.

Geological mapping confirmed a multiphase dioritic intrusion into the Hurley Formation turbidites and Taylor Creek conglomerates. A thermal aureole of a few hundred meters thick is observed extending into the sediments surrounding the Eldorado stock. Given the geologic age difference between the Hurley sediments and the Taylor Creek conglomerates it is likely the two units are separated by a fault, however this structure was not observed in the field. The lack of contact metamorphism and abundance of serpentised fault surfaces suggests that the ophiolitic rocks in the south of the project area were thrust up on the dioritic and sedimentary sequences post intrusion of the Eldorado stock. The detailed 2011 geologic map is presented in **FIGURE 4**.



**FIGURE 4: GEOLOGIC MAP OF THE ROBSON OCCURRENCE**

A total of 77 rock samples were taken across the Property (*FIGURE 5*) and sent to ALS Minerals for Four Acid multi-element analysis and Fire Assay Fusion analysis. The ALS Minerals assay results and a list of rock samples are provided in *APPENDIX 1*. Elevated arsenic and gold values were found in areas of strong iron-carbonate quartz alteration, however high arsenic was also found in areas devoid of gold.



**FIGURE 5: ROCK SAMPLE LOCATION MAP**

## **9.2 TALUS FINE AND STREAM SEDIMENT SAMPLING**

Talus fine sampling and stream sediment sampling was conducted from June 29, 2011 to August 2, 2011. All stream sediment, rock and talus fine samples were shipped to ALS Minerals Laboratories in North Vancouver, BC for preparation and analysis. Due to slow return times from the laboratory, the talus fine sample was analyzed using an Omega Portable XRF analyzer to provide preliminary targeting data.

Rock and talus fine samples were prepared with PREP31 which includes crushing to 70% passing – 10 mesh (2 mm), splitting 250 g and pulverizing to 85% passing –200 mesh (75 microns). The samples were analyzed for multi-element with ME-ICP61, a 33-element ICP-AES analysis with a four acid digestion of a 0.25 g pulp. Au was analyzed with lead collection of 30 g sample using aqua regia digest, fire assay and ICP-AES finish (Au-ICP21).

In both talus fines and stream sediments samples elevated arsenic and gold values were found in areas of strong iron-carbonate quartz alteration, however high arsenic was also found in areas devoid of gold especially within the hornfelsed aureole in the sedimentary units.

### **9.2.1 TALUS FINES**

The 2011 sample grid was designed to extend a historical sample grid in the NEA ridge area (*FIGURE. 6*), and to cover the contacts of the quartz diorite intrusion. Sampling was conducted on a grid of 100 m spaced lines and 50 m spaced samples, oriented at 240° to 260°. Some areas of the grid could not be accessed due to steep terrain and snow cover. A total of 375 talus samples were collected on these grids between June 29, 2011 and August 2, 2011

On ridges and talus slopes the samples were recorded as being collected from the C horizon, while at lower elevations where a soil profile was developed, the B horizon was sampled. Special care was taken to avoid sampling a recent ash layer covering the entire project area. Samples were collected to a size of 500 g using a soil shovel.

The un-sieved 500 g samples were then sub-sampled to 50 g and analyzed in camp using a portable XRF (operated by geochemist Angelina Buchar and assistants). The purpose of the XRF analysis was to prioritize sampling locations in difficult terrain rapidly, based on the assumption that arsenic is a pathfinder for gold. The talus fine samples were analyzed using the XRF using the method description found in *APPENDIX 11*. XRF sample locations, arsenic results and the full spectrum of XRF elements are summarized in *APPENDIX 2*. The remainder of the sample material was sent to ALS Minerals. The ALS Minerals assay results are provided in *APPENDIX 3*. Talus fine samples collected included a QAQC program with certified reference materials (CRM) and field duplicates.

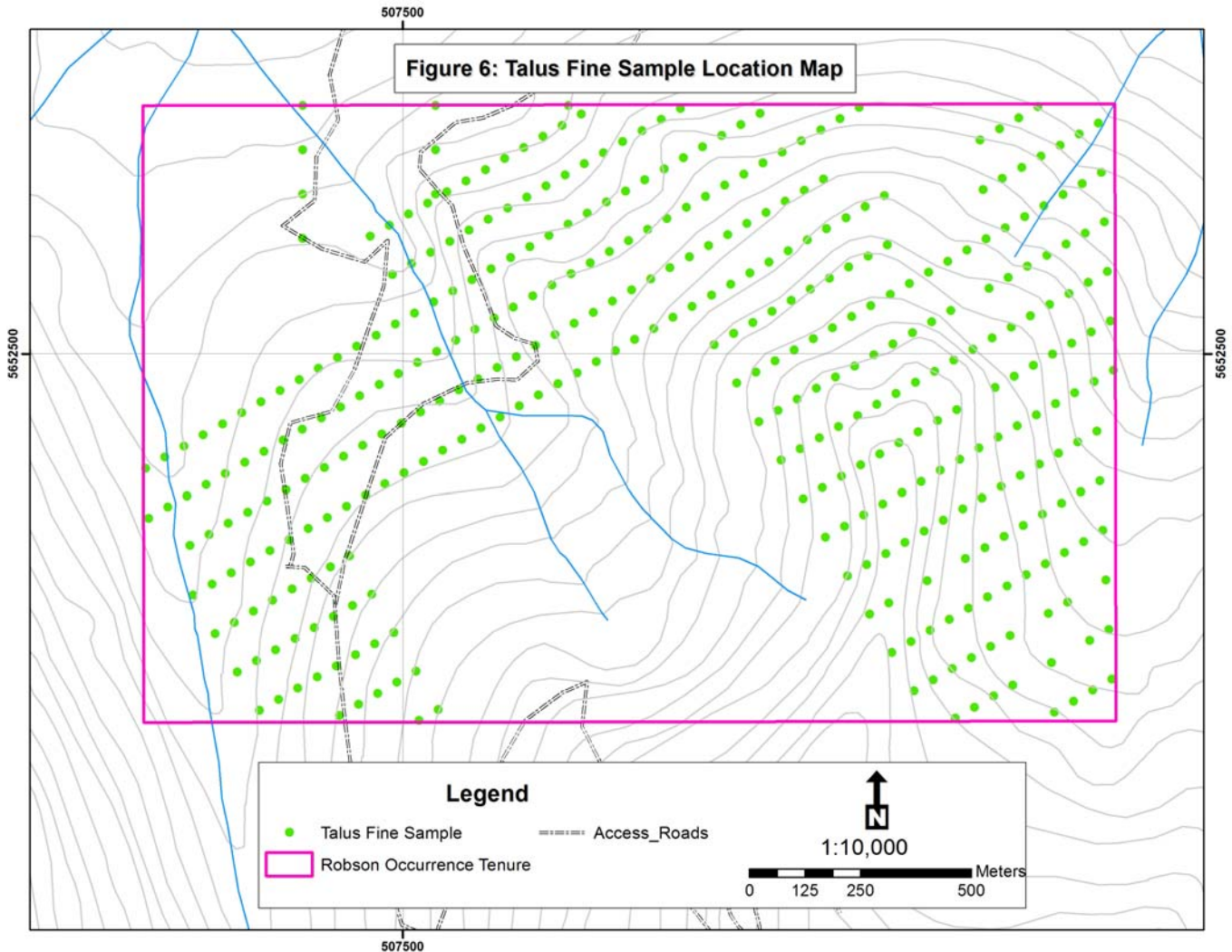


FIGURE 6: TALUS FINES SAMPLE LOCATION MAP

### 9.2.2 STREAM SEDIMENTS

One un-sieved conventional stream sediment sample was taken from drainages within the project area (*FIGURE 7*). The Stream sediment sample was dried at the ALS Minerals laboratory in a 60°C oven and dry-sieved to – 180 micron before being analyzed for multi-elements using aqua regia digest with ICP-MS finish. Gold was analyzed using ALS' super trace level gold technique, ST-43 with over limits by OG-43. Assay results are provided in *APPENDIX 4*.

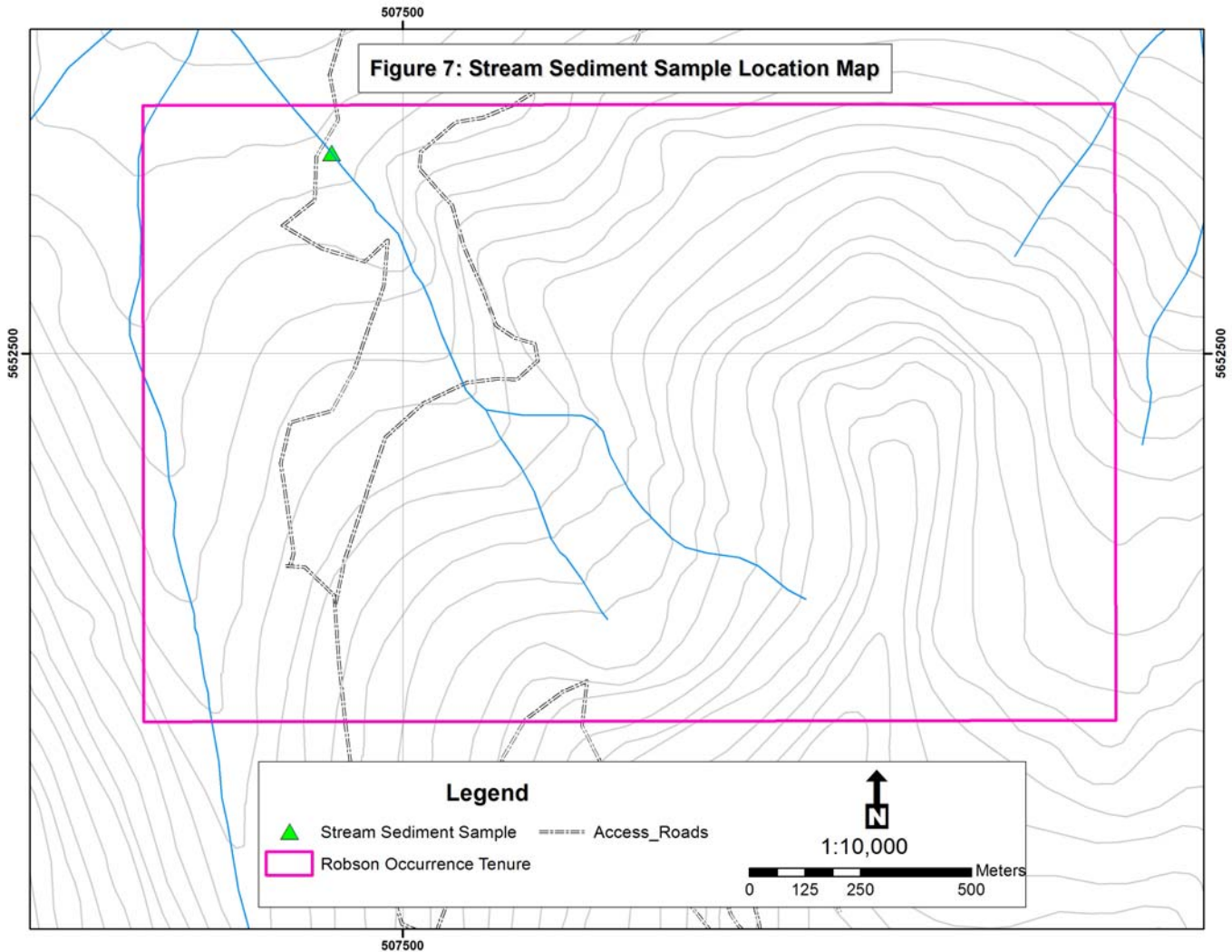
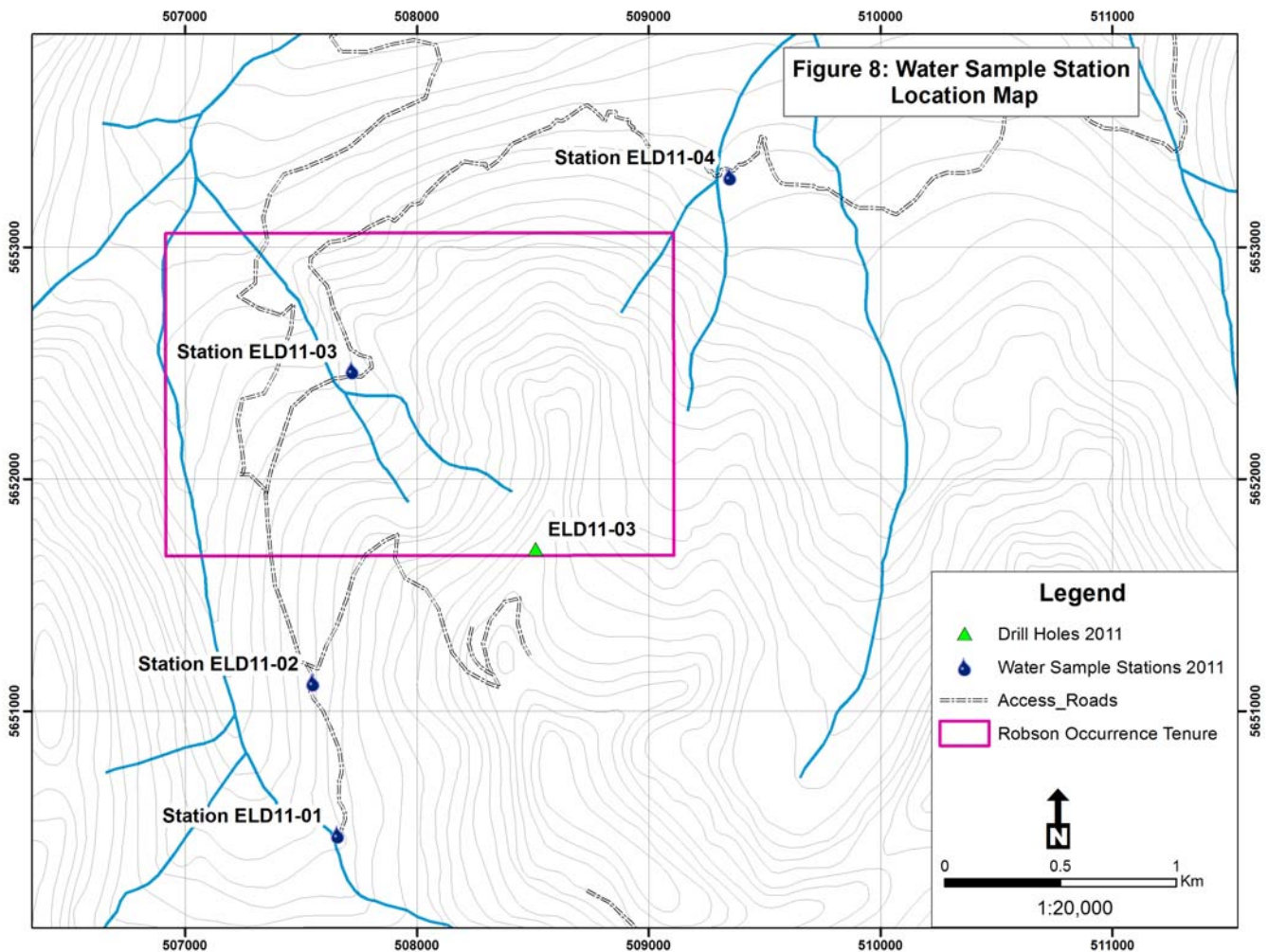


FIGURE 7: STREAM SEDIMENT SAMPLE LOCATION MAP

#### 9.4 WATER QUALITY EVALUATION

Baseline water sampling was conducted two times throughout the diamond drill program, once in August prior to start up and once in September after completion. The water samples were collected along creeks that drain the area surrounding the 2011 drill program. Samples collected were analyzed for general variables that include Alkalinity, Chloride, Nitrate, Sulfate, Conductivity, Dissolved Metals, Total metals, Ammonia, ph, Total Suspended Solids, and Turbidity. There were four water sampling stations across the area of influence (*FIGURE 8*). The assessed metals fell within or below BC and CCME water quality guidelines with the exception of Arsenic (As). Elevated As levels were found during both sampling periods; however, As levels remain consistent both before and after drilling suggesting that drilling activities did not impact water quality. Arsenopyrite (FeAsS) is an abundant naturally occurring mineral in the area and As is typically highly elevated in the areas rock and soil samples. Although the

As guidelines have been exceeded, this is the result of a naturally occurring process and not a result of drilling activities. The water sample assay results are presented in **Appendix 5**.



**FIGURE 8: WATER SAMPLE STATION LOCATION MAP**

### **9.5 ARCHAEOLOGICAL OVERVIEW ASSESSMENT (AOA)**

In 2011 prior to the commencement of the diamond drill program, Terra Archaeology Limited of Richmond British Columbia was contracted to conduct a desktop Archaeological Overview Assessment (AOA) of the Eldorado Property (**APPENDIX 6**). The purpose of this study is to assess the potential for archaeological sites within the given area, and to make recommendations for further archaeological work. This assessment work determined that an existing AOA model from 1997 included the Eldorado property. Terra Archaeology determined that since this AOA was comprehensive, a new AOA, which would be based on similar criteria, would therefore be redundant. A record review of the

Archaeological Branch of the Ministry of Natural Resources Operations' online library was also conducted. The study concluded that although there were no previously recorded protected archaeological sites registered, the general area has been utilized in the past as several culturally modified trees, trails and a variety of other types of cultural heritage sites have been identified in close proximity, but not within the Eldorado Property, including the Robson Occurrence, claim boundaries (Weinberger, 2011). As there are some zones of moderate to high archaeological potential in the area that was drill tested, drill holes were set up, where possible, on previously disturbed ground, such as old roads, trenches and push piles to minimize additional disturbance and to avoid any archaeological potential. Upon completion of the drill program the drill pad was reclaimed and returned to its pre drilling state.

## **9.6 DIAMOND DRILLING**

### **9.6.1 SCOPE AND METHOD**

The objective of the 2011 drill program was to test the validity of the surface geochemical Au anomalies observed. Radius Drilling Corporation of Prince George British Columbia was contracted to drill NQ2 sized core using a Radius 2000 Hydraulic diamond drilling unit. One diamond drill hole totalling 367.89m was drilled from August 26, 2011 to August 29, 2011. The drill collar was located using a handheld GPS (Garmin GPSMAP 76CSx) and compass. All coordinates are reported in an UTM NAD 83 Zone 10 projection and all measurements are reported in meters unless otherwise stated. Down hole surveys were not carried out.

Terra Archaeology of Richmond British Columbia was contracted to conduct an Archaeological Overview Assessment prior to drilling. The results are discussed in Section 9.5 above and presented in *APPENDIX 6*. Where possible, all drill pads were constructed in previously disturbed areas, such as old roads, trenches and push piles, to minimize additional disturbance and to avoid any areas of moderate to high archaeological potential. Upon completion of the drill program, the drill pad was reclaimed and returned to its pre drilling state.

Core logging and cutting was completed at the site of the abandoned Silverquick Mercury Mine until inclement weather conditions forced operations to be moved to facilities at Gold Fields' Woodjam Project near Horsefly British Columbia. Upon completion of logging and cutting all core was transported back to the Silverquick mine site for storage. All logging was completed by Shawn Vandekerhove, Arnand van Heerden and Twila Skinner of Gold Fields. Core teching and cutting was completed but Codee Bowe, Darcy Jackson, Monique King and John Macleod of Mincord.

Detailed geological logs, strip logs, drill sections and assay certificates are presented in **APPENDIX 7** to **APPENDIX 10**. Field sampling and analytical controls are described in Sections 10, 11 and 12. The reported interval widths are along the drill core orientations and may not represent true or actual widths of mineralization.

### **9.6.2 DRILL HOLE DESCRIPTIONS**

Drilling was focused on the centre of the gold dominated hydrothermal system based on the distribution of the hydrothermal alteration and geochemistry of the talus fines. Drill hole information including location, azimuth, dip and depth is summarized in **TABLE 6** and **FIGURE 9**.

ELD11-03 collared in the variable altered cretaceous Coast Complex Quartz Diorite, an intrusive rocks characterized as grey to dark grey, medium grained diorite to quartz diorite with a 30-40% mafic minerals (biotite), 60 -70% grey feldspar and up to 10% quartz. The intrusive complex is comprised of at least two phases; a massive equigranular quartz diorite phase that appears to be both pre and syn mineralization and a weakly porphyritic phase that cross-cuts mineralized zones as dykes.

Distinct alteration zones of iron carbonate and silica appear to be low angled stacked sequences that are structurally controlled as evident by sharp boundaries and contacts. Alteration ranged from an unaltered to a strong Fe-bearing carbonate alteration replacing biotite and local hornblende. A moderate sericite/argillic overprint is recognized as replacing the feldspars and zones dominated by silicification overprint all mineral assemblages.

Mineralization consists predominantly of massive arsenopyrite, pyrite, stibnite ( $\pm$  sphalerite and chalcopyrite). Mineralization was encountered in Fe-carbonate and Fe-Carbonate-quartz vein systems ranging in thickness with several stacked zones recognized in throughout the hole. Veins are dominantly horizontal to sub horizontal, which follows the surface expressions of E-NE vein sets. Although a mineralized zone has yet to be defined, intervals of mineralization have been intersected at depth within the area drill tested. Composite grades are presented in **TABLE 7** below and range from 0.129 (g/t) to 0.741 (g/t) Au in ELD11-03. Only intersections greater than 4 metres were used in composite calculations. Mineralization is still open laterally in all directions and at depth.



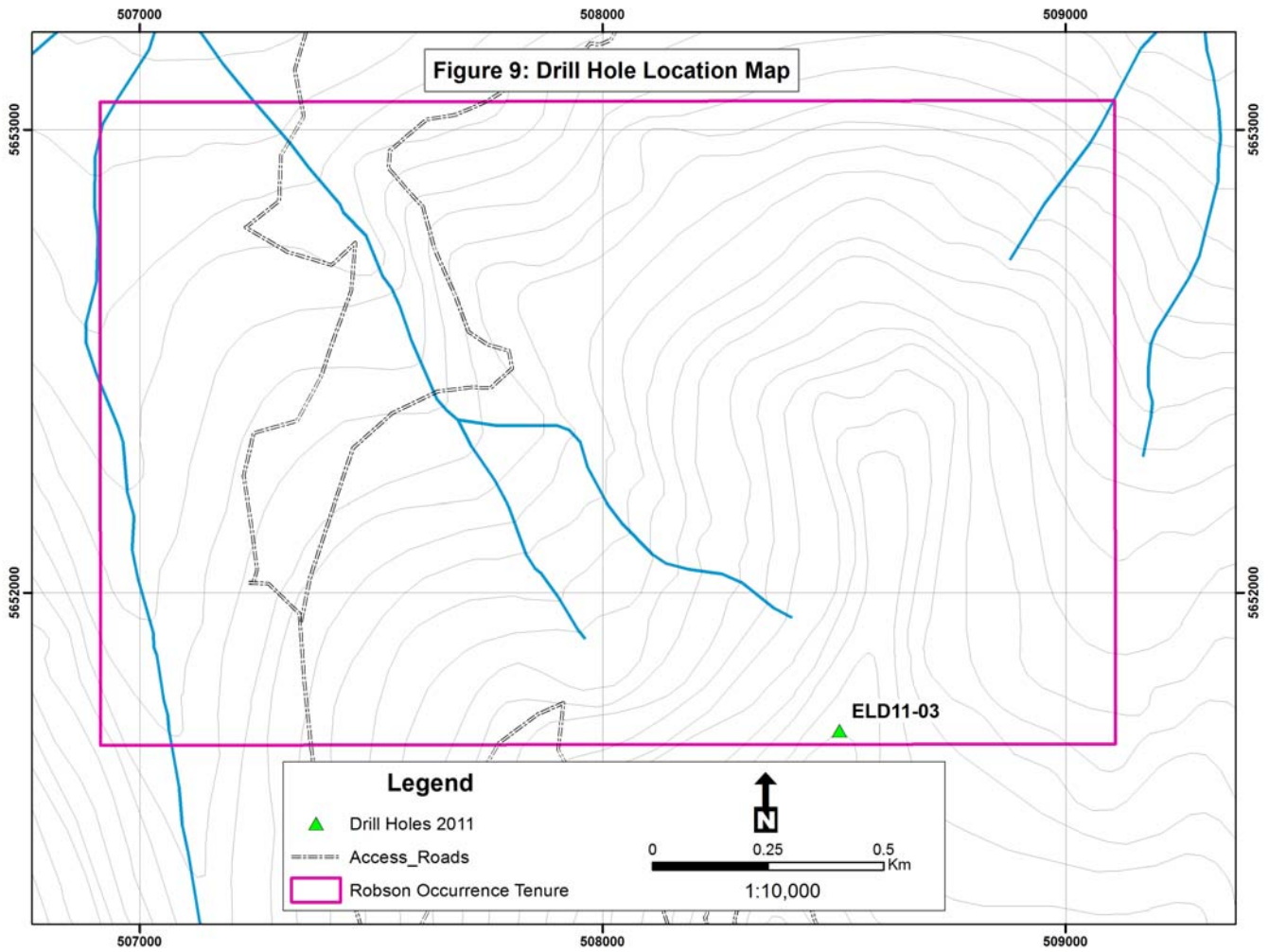


Figure 9: Drill Collar Location Map

Hole_ID	Handheld GPS			Collar	Collar	Total Depth (m)	Core Size
	UTM_E	UTM_N	Elev_m	Dip(°)	Azi (°)		
ELD11-03	508512	5651702	2266	-70	310	367.89	NQ2

TABLE 6: DRILL COLLAR TABLE

Hole ID	From	Length	Au (g/t)
ELD11-03	3.05	31.7	0.741
	66	22	0.23
	147	10.23	0.503
	246	24	0.129

TABLE 7: COMPOSITE GRADE TABLE

Detailed geologic correlation of the 2011 drill program is limited due to the lack of drilling in the area. A preliminary interpretation, based on historic work and analogies available from the numerous occurrences in the immediate area of the Property as well as surface observations from the 2011 mapping program, is that the upper portion of the intrusion intersected is a carapace of quartz diorite that has been “domed” up with a secondary wave of fluids. This event has caused a series of sub horizontal faults, vein brecciation and cataclasite zones. The cataclasite zones can contain varying thicknesses fault gouge at the contacts and have milled sulphides. Sulphide minerals such as sphalerite and stibnite are observed at certain depths and maybe zoned within the system. Although this system is gold dominated, rare copper, in the form of chalcopyrite and lesser bornite, is present. Some zones, relative to the rest of the system, contain more chalcopyrite and may possible represent a later overprint.

ELD11-03 is summarized below.

### **ELD11-03**

**Target:** The purpose of this hole is to test the validity of the geochemical Au anomalies observed within the NEA Grid in the Eldorado Claim as well as test the magnetic high defined but the 2011 aeromagnetic survey.

**Location:** ELD11-03 is located in a previously disturbed area on a south-western spur located within the NEA Basin within the historic NEA soil grid approximately 197m northeast of ELD11-02. It collars in the quartz diorite intrusion about 700m south of the inferred contact of the quartz diorite with the Hurley formation sediments. It lies in the center of a magnetic high defined by the 2011 aeromagnetic survey and is in an area of a geochemical gold high with values ranging from 100 ppb to 8550 ppb.

**Lithology:** A variably altered fine to coarse grained Quartz Diorite was encountered from the top of bedrock at 3.05m to the end of hole at 367.89m. From 120.43-197.95m and 243.85-327.52m there are multiple zones of Quartz-silica/Fe-Carbonate ±sericite and rare Pyrite alteration associated with Quartz-carbonate-sulphide veins. There are two separate fault zones one at 338.87-340.93m and the other at 352.93-353.93m. Patchy weak to strong Fe-Carbonate alteration of the mafics is observed throughout.

**Alteration:** Strong to intense pervasive silicification with a patchy weak to moderate Fe-Carbonate and oxidation overprint to 8.23m. Fracture controlled oxidation with zones of increased alteration associated oxidation envelopes around fractures is observed to 34.75m. Dominantly un-altered to weakly altered quartz diorite with a weak Fe-Carbonate alteration of mafics (biotite) as well as a weak regional chlorite alteration selectively replacing the mafics (biotite). From 120.43-197.95m and 243.85-327.52m there are multiple zones of Quartz-

silica/Fe-Carbonate ±sericite and rare Pyrite alteration associated with Quartz-carbonate-sulphide veins.

**Mineralization:** Arsenopyrite is observed throughout the entire hole except for two small intervals at 327.52-332.42m and 362.89-367.89m and ranges from sub-trace to 0.5%. It is contained primarily within Fe-Carbonate and Fe-Carbonate-Quartz veins and vein envelopes. Occasional intervals of up to 0.25% Sphalerite and 0.1% Stibnite is observed from 34.74-197.95m. Sub trace to trace Sphalerite and sub trace chalcopyrite is observed from 243.85-327.52m. Chalcopyrite and trace Bornite in this interval tends to be within the host rock and not within veining.

**Significant Intersections:** Anomalous mineralized intersections include 31.7m from 3.05m of 0.741 g/t Au, 22m from 66m of 0.23 g/t Au, 10.23m from 147m of 0.503 g/t Au and 24m from 246m of 0.129 g/t Au. These intersections are associated with elevated As as well as weak anomalous Ag, Pb, Sb, and Zn.

**Interpretation/Comments:** Geology, alteration, and mineralization observed within this hole indicate the potential for the presence of a subsurface mineralized body of unknown dimensions that contains arsenopyrite, commonly associated with Gold. Although this hole lacks the cataclasite observed in other holes it has more vein brecciation which could indicate that this is an area peripheral to a highly faulted zone. Although up to 0.5% Arsenopyrite, 0.25% Sphalerite, 0.1% Stibnite, trace Bornite and sub trace Chalcopyrite was observed, there were no significant economic intersections to report.

## **10.0 SAMPLING METHOD AND APPROACH**

### **10.1 ROCK, TALUS FINES AND STREAM SEDIMENT SAMPLES**

Samples were collected in such a manner as to prevent contamination with other samples by packaging each sample in its own individually labelled sample bag. Care was taken to eliminate sampling biases that could impact the analytical results including removing all jewelry prior to handling samples and keeping the work area clean of debris. The Authors are not aware of any factors that may have resulted in sample biases. A total of 77 rock, 375 talus fines and 1 stream sediment samples were collected and assayed.

### **10.2 DRILL CORE**

Each drill hole was sampled in its entirety due to the broad extent of mineralization. Sample intervals, on average, were between two to three metres based on geology and amounts of mineralization present. These intervals are considered representative and adequate based on geological complexity. Areas with very weak to no mineralization were sampled at three meters intervals and mineralized zones were sampled at two meters intervals. Intervals within a mineralized zone that contained significantly different intensity and mineralization

types were sampled appropriately and were typically less than the two to three metre sampling intervals. Samples did not cross lithological boundaries. A total of 150 samples were submitted for assay including 135 drill core and 15 field QAQC samples (7 standards and 8 blanks).

Care was taken to eliminate sampling biases that could impact the analytical results including having the same half of core returned to the core box, removing all jewelry prior to handling samples and keeping the work area clean during all aspects of logging and cutting. The Authors are not aware of any factors that may have resulted in sample biases.

## **11.0 SAMPLE PREPARATION, ANALYSES AND SECURITY**

No sample preparation was conducted by an employee, officer, director, or associate of Gold Fields or the claim owner, Ken Shannon, prior to delivery to the laboratory for analyses.

In general, all rock, talus fines, stream sediment and drill core samples were collected and delivered on a regular basis to a secure compound at Gold Bridge, British Columbia. All sample handling was carried out and supervised by a Gold Fields designate, including the Authors. Batches of securely tied rice bags were shipped on a regular basis to ALS Minerals of North Vancouver, British Columbia. An ALS Minerals "Sample Submittal Form", that includes a list of samples shipped, was inserted in the first bag of each sample type being shipped. The samples were transported directly to ALS Minerals of North Vancouver (British Columbia) by Gold Fields personnel. The XRF analysis was conducted onsite and samples did not have to be bagged for transportation.

### **11.1 ROCK, TALUS FINES AND STREAM SEDIMENT SAMPLES**

Rock, talus fines and stream sediment samples were collected and delivered to the Gold Bridge compound by samplers designated by Gold Fields, including the Author, on a daily basis. All samples were clearly marked with the sample numbers labeled, in permanent marker, on the sample bag and waterproof tags, provided by ALS Minerals, were placed in the bags. All relevant sample information was recorded in field notes that were entered into spreadsheets on a daily basis. Samples were sorted based on sample numbers and stacked appropriately to allow them to dry, if necessary. Groups of each type of sample were placed in rice bags that were securely tied with plastic tie wraps for transport.

All rock, stream sediment and talus fine samples were shipped to ALS Minerals Laboratories of North Vancouver British Columbia for analyses. ALS is an ISO 17025:2005 accredited lab and maintains an internal QAQC program. Preparation and analyses methods of samples sent to the lab are included in **APPENDIX 12** and are summarized below in **TABLE 8**. No QAQC sample checks such

as blanks, certified reference materials, or duplicates were used for the rock and stream sediment samples.

Talus fines samples were analysed by the XRF onsite and samples did have to be bagged for transportation. Talus fines samples followed the XRF QAQC protocol which included instrument calibration using the standard reference samples, provided by Innov-X, and the insertion of an appropriate standard reference material between every 20 samples. Preparation and analyses methods of samples analyzed by the XRF are included in *APPENDIX 11*.

### **11.2 DRILL CORE SAMPLES**

Drill core was delivered, on a per shift basis, by representatives of Radius Drilling and Blackcomb Aviation to the core compound at Silverquick Mercury Mine. All core handling was carried out and supervised by a Gold Fields or Radius Drilling designate, including the Authors. Core logging, teching and cutting was completed at the Silverquick Mercury Mine until inclement weather conditions forced operations to be moved to facilities at Gold Fields' Woodjam Project near Horsefly British Columbia. Upon completion of logging and cutting all core was transported back to the Silverquick mine site for storage.

All sample intervals were recorded in the drill log and marked in the core boxes with waterproof tags, provided by ALS Minerals, stapled at the beginning of the sample interval. A gas powered core saw was used to cut the core in half along yellow lines determined by the logging geologist. One half, the same half across all samples, was returned to its appropriate core box location. All cut core was stored at the Silverquick Mine core compound. The other half was placed into a clear plastic ore bag marked, in permanent marker, with the sample number and containing a sample tag. This bag was then sealed with a plastic tie wrap. Batches of sorted samples were sealed in subsequently numbered rice bags with plastic tie wraps.

All samples were shipped to ALS Minerals Laboratories of North Vancouver British Columbia for analyses. ALS is an ISO 17025:2005 accredited lab and maintains an internal QAQC program. Preparation and analyses methods of samples sent to the lab are included in *APPENDIX 12* and are summarized below in *TABLE 8*. One QAQC sample, alternating between either a field blank or a certified reference material, was inserted once every ten samples for drill core. No field duplicates were used. Certified reference materials were obtained from Canadian Resource Labs of Langley British Columbia. Assay certificates for all certified reference materials are presented in *APPENDIX 13*. Blanks, standard landscaping limestone, were purchased from local garden and landscaping stores.

It is the Author's opinion that the sampling procedures, security measures, sample preparations and analytical methods applied to the all samples were diligently followed and are adequate to meet industry standards commonly

accepted for this level of exploration. The Authors have relied upon the adequacy and accuracy of the analytical results and has not independently verified those results.

Method Name*	Method Code	Procedure	Sample Type
Rock Preparation	PREP-31	Split off 250 g and pulverize split to better than 85% passing 75 microns	Core/Rock /Talus Fines
Soil Preparation	PREP-41	Sieve sample to -180 micron (80 mesh) Retain both fractions	Stream Sediments
Aqua Regia Au Digestion	Au-OG43	Ore grade Au assay by aqua regia digestion with AAS or ICP-MS finish 25 g samples	Stream Sediments
Aqua Regia Au Digestion	Au-ST43	Super trace level Au assay by aqua regia digestion with ICP-MS (MARG) finish 25 g samples.	Stream Sediments
Four Acid Multi-Element Digestion	ME-ICP61	Multi-element (33) assay by four acid "near-total" digestion with ICP-MS finish 1 g samples minimum	Core/Rock /Talus Fines
Aqua Regia Multi-Element Digestion	ME-MS41	Ultra-trace level multi-element (51) assay by aqua regia digestion with ICP-MS and ICP-AES finish 1 g samples minimum	Stream Sediments

\*Detailed descriptions in Appendix 15

**TABLE 8: ALS MINERALS ANALYTICAL METHOD SPECIFICATIONS**

## 12.0 DATA VERIFICATION

The authors have relied upon the adequacy and accuracy of in house QAQC reviews of all the analytical results and has not independently verified those results. A total of 150 drill related samples (135 drill core samples and 15 field QAQC samples (7 standards and 8 blanks were collected, sent to ALS Minerals of North Vancouver, British Columbia for analysis and subsequently reviewed under Gold Fields' in-house QAQC protocols. The "Quality Assurance Quality Control Report: 2011 Eldorado Project-Claim#514957 QAQC Procedures and Results" report is presented in *APPENDIX 14* and is summarized below.

In the field, QAQC samples included the addition of blanks, duplicates and certified reference material. One QAQC sample, alternating between either a field blank or a certified reference standard, was inserted once every ten samples for drill core. ALS Minerals performs routine check analyses during sample runs including in-house standards and duplicates. Each assay batch was evaluated

by standard and blank performance upon receipt of the datafile and certified certificate.

The results of the QAQC review concluded that the ALS Minerals dataset appears to be acceptable and Gold Fields has confidence in the results.

### **13.0 INTERPRETATION AND CONCLUSIONS**

The main objectives of the 2011 exploration program were to geologically map the area to determine the controls on the gold mineralization and to drill test potential mineralization. The combination of geochemical and/or geophysical anomalies was used to define the drill target. Results of 2011 program included the identification of additional Au (Gold) and As (Arsenic) surface geochemical anomalies outside of the known historic NEA grid as well as sulphide mineralization at depth. Mineralization consists predominantly of massive arsenopyrite, pyrite, stibnite ( $\pm$  sphalerite and chalcopyrite).

Geological mapping confirmed a multiphase dioritic intrusion into the Hurley Formation turbidites and Taylor Creek conglomerates. The contact between the sediments and Eldorado was observed in the field as an intrusive contact. A thermal aureole of a few hundred meters thick is observed extending into the sediments surrounding the Eldorado stock. Given the geologic age difference between the Hurley sediments and the Taylor Creek conglomerates it is likely the two units are separated by a fault, however this structure was not observed in the field. The lack of contact metamorphism and abundance of serpentinised fault surfaces suggests that the ophiolitic rocks in the southern portion of the project area were thrust up on the dioritic and sedimentary sequences post intrusion of the Eldorado stock. Mapping of alteration zones within the Eldorado stock strengthened the understanding that quartz  $\pm$  carbonate veining (low-angled) are restricted to areas of intense Fe-carbonate alteration and are associated with arsenopyrite, pyrite  $\pm$  stibnite, galena and sphalerite mineralization.

Geochemical talus fines and rock sampling, carried out synchronous to geologic mapping, confirmed the extension of anomalous Au values observed in the historic NEA grid. Additionally it confirmed that elevated Au values are associated with As (arsenopyrite), but elevated As are not always associated with elevated Au. This association facilitated the use of the portable XRF device to help prioritize anomalous zones for further target generation.

Detailed geologic correlation of the 2011 drill program is limited due to the lack of drilling in the area. A preliminary interpretation, based on historic work and analogies available from the numerous occurrences in the immediate area of the Property as well as surface observations from the 2011 mapping program, is that the upper portion of the intrusion intersected is a carapace of quartz diorite that has been “domed” up with a secondary wave of fluids. This event has caused a series of sub horizontal faults, vein brecciation and cataclasite zones. The

cataclasite zones can contain varying thicknesses fault gouge at the contacts and have milled sulphides. Sulphide minerals such as sphalerite and stibnite are observed at certain depths and maybe zoned within the system. Although this system is gold dominated, rare copper, in the form of chalcopyrite and lesser bornite, is present. Some zones, relative to the rest of the system, contain more chalcopyrite and may possible represent a later overprint. Composite grades are presented in *TABLE 7* below and range from 0.129 (g/t) to 0.741 (g/t) Au in ELD11-03. Mineralization is still open laterally in all directions and at depth.



## 14.0 STATEMENT OF EXPENDITURES

The 2011 Exploration Program expenditures are as follows:

Robson Claim Exploration Expenditure 2011					
Exploration Work type	Comment	Days			Totals
<b>Personnel (Name) / Position</b>	<b>Field Days (list actual days)</b>	<b>Days</b>	<b>Rate</b>		
Twila Skinner-Project Manager/Geologist	Wages(incl EI, Worksafe BC, Payroll )	9	\$600.00	5,400.00	
Matt Eckfeld-Geologist/Project Manager		12	\$600.00	7,200.00	
Stephen Lehman-geotech		5	\$350.00	1,750.00	
Dillon Hume-geotech		5	\$350.00	1,750.00	
Thomas Tilley-geotech		5	\$350.00	1,750.00	
Katelyn Pocha-geotech		4	\$350.00	1,400.00	
				19,250.00	19,250.00
<b>Office Studies</b>	<b>List Personnel (note - Office only, do not include field days)</b>				
Report preparation	T.Skinner	2	\$600.00	1,200.00	
				1,200.00	1,200.00
<b>Ground Exploration Surveys</b>	<b>Area in Hectares/List Personnel</b>				
Geological mapping					
Regional					
Reconnaissance					
					0.00
<b>Ground geophysics</b>	<b>Line Kilometres / Enter total amount invoiced list personnel</b>				
IP			\$0.00		
Geophysical interpretation			\$0.00		
Ground Magnetetics			\$0.00		
Other (specify)			\$0.00		
					0.00
<b>Geochemical Surveying</b>	<b>Number of Samples</b>	<b>No.</b>	<b>Rate</b>		
Drill		150	\$20.72	3,108.00	
Stream sediment		1	\$20.72	20.72	
Soil/Talus Fines		375	\$20.72	7,770.00	
Rock		74	\$20.72	1,533.28	
Talus Fines (Ridge and Spur)			\$0.00	0.00	
Other (specify)	Standard Material		\$0.00	150.00	
				12,582.00	12,582.00
<b>Drilling</b>	<b>No. of Holes, Size of Core and Metres</b>	<b>No.</b>	<b>Rate</b>		
Diamond	1 NQ Holes 367.89m		\$0.00	52,996.62	
Helicopter (Drill Support)			\$0.00	56,376.70	
				109,373.32	109,373.32
<b>Other Operations</b>	<b>Clarify</b>	<b>No.</b>	<b>Rate</b>		
Sustainable Development	Community & First Nations Engagement			135.24	
Water Sampling	ALS Environmental Analysis		\$0.00	103.92	
Fuel (Diesel and Gas)	Fuel for drill, equipment and trucks		\$0.00	2,109.92	
Environmental Health and Safety	First Aid Gear; EHS training, safety equipment; helicopter safety audit			276.84	
Data Acquisition	BC Government Archives			35.84	
				2,661.76	2,661.76
<b>Travel</b>		<b>No.</b>	<b>Rate</b>		
Airfare			\$0.00	32.12	
Taxi /Car Hire	Includes expediting travel		\$0.00	194.88	
Hotel			\$0.00	78.16	
Meals			\$0.00	33.56	
				338.72	338.72
<b>Camp</b>	<b>Rates per day</b>	<b>No.</b>	<b>Rate</b>		

truck rental	2- 4x4 rental trucks; incusrance, repairs			3,991.00	
Camp	Includes Food, housing etc			8,403.27	
				12,394.27	12,394.27
<b>Miscellaneous</b>					
Office Expenses	printing, suppiles, postage, telephone, computer, bandking charges		\$0.00	300.00	
				300.00	300.00
<b>Equipment/Field Gear Rentals/Purchase</b>					
Field Gear (Specify)	core saw blades, polly ore bags, markers, rice bags, sample tags, logging supplies, staples, flagging tape; zap straps		\$0.00	636.99	
Equipment Rental	computers, XRF, satellite phone, core saw, pumps, plotter; repeater and radios		\$0.00	499.65	
				1,136.64	1,136.64
<b>Freight, rock samples, soil, silt samples</b>	field freight and sample shipping; sample storage		\$0.00	276.45	
				276.45	276.45
<b>TOTAL Expenditures</b>					159,513.16

**TABLE 9: 2011 STATEMENT OF EXPENDITURES**

## 15.0 REFERENCES

- Arcscott, P., 1975:** (Chevron Standard Ltd), Canadian Gold Project – Eldorado Mountain, Geological Mapping and Geochemical Survey, 1975 Program. Assessment Report # 5659.
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- BC Ministry of Environment:** Water Quality Ambient Water Quality Guidelines for Arsenic: Overview Report, <http://env.gov.bc.ca/wat/wq/BCguidelines/arsenic/index.html>, February 13, 2012.
- Black, E., 2011:** (Gold Fields Canada Exploration), 2011 Geophysical Assessment Report on the Eldorado Property.
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- Durfeld, R.M., 2010:** (Durfeld Geological Management, Ltd.), Geological/Geochemical Report of the Eldorado Project, Assessment Report # 31133.
- Hart, J.R., Marsh, E. and Goldfarb, J., 2005:** Epizonal Orogenic Sb and Hg in the Bridge River-Bralorne District: A Basis for District Zonation and New Exploration Models. Centre for Exploration Targeting, University of Western Australia. SEG Conference Poster.
- Massey, N.W.D., MacIntyre, D.G., Desjardins, P.J. and Cooney, R.T., 2005:** Digital Geology Map of British Columbia: Whole Province, B.C. Ministry of Energy and Mines, Open File 2005-2, DVD, scale 1:250,000.  
**Also accessible online at:**  
<http://www.empr.gov.bc.ca/Mining/Geoscience/PublicationsCatalogue/GeoFiles/Pages/2005-1.aspx>
- Weinberger, D., 2011:** Existing Archaeological Overview Assessment (AOA) and Record Review Gold Fields Canada Exploration Eldorado Claim Area

## 16.0 STATEMENT OF QUALIFICATIONS

### 16.1 CERTIFICATE OF QUALIFICATIONS- TWILA SKINNER

I, Twila Skinner, having my place of residence at 977 Ryan Place in Kamloops in the Province of British Columbia do hereby certify that:

1. I am a geologist with Gold Fields Canada Exploration BV (Gold Fields), #400-1155 Robson Street Vancouver British Columbia V6E 1B5;
2. I obtained a Bachelor of Science Degree in Earth Sciences from Simon Fraser University in 2001 and have been engaged as a Geologist continuously since 2001. I have worked on a number of different types of deposits including porphyry, precious metals and gemstones for a number of companies at a number of localities including British Columbia, Nunavut, Yukon and Greenland.
3. I am a Member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia (#30355);
4. I have worked on the Eldorado Property from September 2010 through to the present. I have not worked on this property prior to September 2010. I am responsible for project management of the exploration activities on the Property;
5. I am responsible for writing sections 9.5-9.7 and contributed to sections 10-11 and 13-16 of the report entitled "Assessment Report on 2011 Activities on the Robson Deposit"; dated February 23, 2012, based on my professional experience, a review of relevant reports and maps made available to me from government and corporate sources and my participation in the work programs described in the report;
6. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
7. I am neither a director nor officer nor do I beneficially hold a number of shares in Gold Fields Canada or its joint venture partner K Shannon; and
8. I hold no direct interest in the Eldorado Property as a result of any prior involvement with the property.

Respectfully submitted this 23th day of February, 2012

**(s) "Twila Skinner"**

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Twila Skinner, P.Geo.

## **16.2 CERTIFICATE OF QUALIFICATIONS-ARNAND VAN HEERDEN**

I, Arnand van Heerden, having my place of residence at 7543 Pintail Court, Littleton, in the State of Colorado USA, do hereby certify that:

1. I completed a Bachelor of Science Degree with Honours in Earth Sciences from the University of Stellenbosch, South Africa in 1998;
2. I have been engaged as a Geologist continuously since January, 1999 and have worked on a number of different gold deposits including Witwatersrand paleoplacer, orogenic hydrothermal vein systems, and porphyry deposits for Gold Fields in a number of countries including USA, Canada (British Columbia), Ghana, South Africa and Peru.
3. I am a Member in good standing of the Australasian Institute of Mining and Metallurgy (MAusIMM #990525) and the South African Council of Natural Scientific Professionals (SACNASP #400106/02)
4. I have worked on the data from the Eldorado project February 2011 through Present, and am currently a geologist with Gold Fields Exploration, Inc. I have not worked on this property prior to February 2011. I am responsible for Project management, Field mapping, Data compilation, field QA/QC, GIS compilations, and Camp technical support with regards to the Eldorado project;
5. I am responsible for writing sections 1.0 to 9.4 and contributed to sections 10, 11, 13 and 15, of the report entitled "Assessment Report on 2011 Activities on the Robson Deposit"; dated February 23, 2012;
6. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
7. I am neither a director nor officer nor do I beneficially hold a number of shares in Gold Fields Canada or its joint venture partner K Shannon; and
8. I hold no direct interest in the Robson Deposit as a result of any prior involvement with the property.

Respectfully submitted this 23th day of February, 2012,

**(s) "Arnand van Heerden"**

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Arnand van Heerden, B.Sc.Hons, P.Geo.

### **16.3 CERTIFICATE OF QUALIFICATIONS-ELEANOR BLACK**

I, Eleanor Black (nee Alesi), having my place of residence at 1483 W 7<sup>th</sup> Ave, Vancouver, British Columbia, V6H4H6 hereby do certify that:

1. I am a graduate of the University of British Columbia with a Bachelor of Science in the field of Geological Sciences in 2004;
2. I have been engaged as a Geologist continuously since August 2004 and have worked on a number of different deposit types including volcanogenic hosted massive sulphide, orogenic hydrothermal vein systems, and porphyry deposits for Gold Fields and various other junior exploration companies in British Columbia, Yukon and Nunavut, Canada.
3. I am a Geoscientist in Training (GIT) in good standing under the regulation of the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC);
4. I have worked on the data from the Eldorado property from April 2011 through Present, and am currently a geologist with Gold Fields Canada Exploration BV. I have not worked on this property prior to April 2011. I am responsible for QAQC procedures and results and GIS compilations, with regards to the Eldorado Project;
5. I am responsible for writing Section 12.0 of the report entitled "Assessment Report on 2011 Activities on the Robson Deposit"; dated February 23<sup>th</sup>, 2011;
6. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
7. I am neither a director nor officer nor do I beneficially hold a number of shares in Gold Fields Canada or its joint venture partner K Shannon; and
8. I hold no direct interest in the Robson Deposit as a result of any prior involvement with the property.

Respectfully submitted this 23th day of February, 2012,

**(s) "Eleanor Black"**

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Eleanor Black, B.Sc., GIT


**Appendix 1**  
**Rock Sample Au Assay Results**

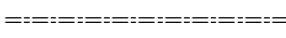


**GOLD FIELDS**

## Appendix 1: Rock Sample Results







### Legend

 Robson Occurrence Tenure

 Access\_Roads

#### Rock Sample

##### Au\_ppm

-  -0.001000 - 0.350000
-  0.350001 - 0.500000
-  0.500001 - 0.750000
-  0.750001 - 1.500000
-  1.500001 - 32.200000
-  32.200001 - 80.300000

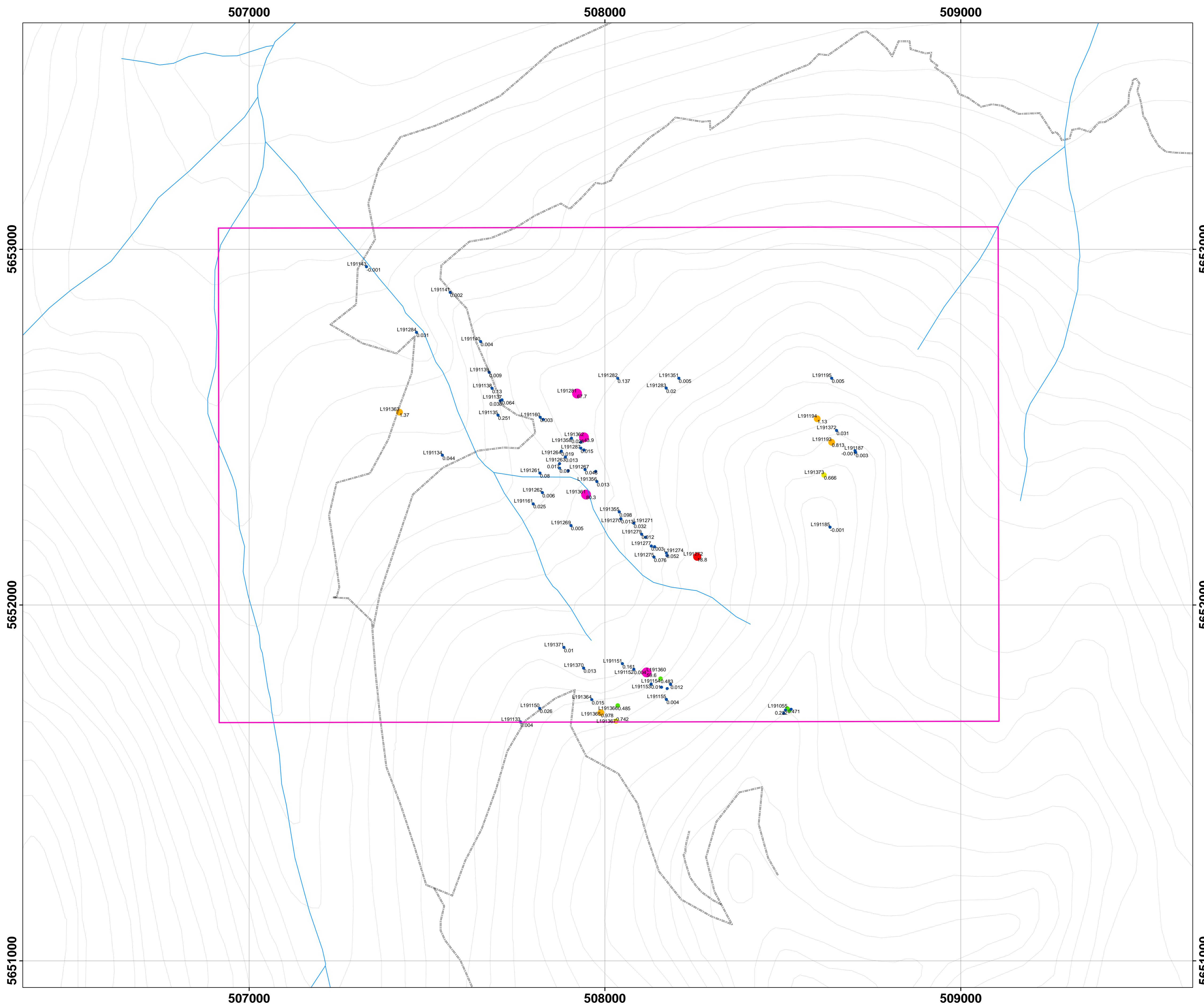
#### Sample ID

 Au\_ppm



1:5,000

0 125 250 500 Meters





### Rock Sample Descriptions

Sample ID	UTM_E	UTM_N	Elevation (m)	Sample Type	Occurrence	Comments	Rock Group	Rock Sub Group	GF Lith Code
191054	508519	5651706	2251	ROCK	Outcrop	strong gossansous stain and grey vfg sulph rich qtz flooding, locally appears as veins.	Igneous		UA
191055	508513	5651709	2251	ROCK	Outcrop	Strong Gossanous stain and grey vfg sulph rich qtz flooding, locally appears as veins.			
191133	507763	5651672	2048	ROCK	Subcrop	Float sample in Fe- carbonate altered Quartz Diorite. Moderate to strong alteration signature, with visible q-veins and py + as-py. Py = disseminated and associated with veins.	Igneous	Medium Grained	IMDQ
191134	507543	5652421	1769	ROCK	Subcrop	Float sample of sedimentary rocks. Sediments are not very Hornfelsy in this occurrence, but has a fine grained, dark grey appearance with fine disseminated py visible.	Sedimentary	Siliciclastic Sediments	SSWAqz
191135	507700	5652535	1723	ROCK	Subcrop	Chip sample of "unknown" volcanoclastic looking rock on contact with Quartz Diorite.	Sedimentary		MUHO
191136	507706	5652574	1747	ROCK	Subcrop	Grab sample on in QD on contact with sed. Qtz, Bte and py visible.	Igneous	Medium Grained	IMDQ
191137	507711	5652577	1746	ROCK	Subcrop	Sample on in sed on contact with QD.	Sedimentary	Siliciclastic Sediments	SSWAqz
191138	507683	5652610	1731	ROCKCHIP	Subcrop	Sampled flt zone/fill in QD. quartz-carbonate infill with fine qv's filling fractures around flt.	Igneous		IMDQ
191139	507675	5652655	1746	ROCK	Subcrop	Sample in Fe-Carc altered QD. Alteration = moderate to strong, with qv's and sulfide visible.	Igneous	Medium Grained	IMDQ
191140	507650	5652741	1711	ROCK	Subcrop	Fe-Carb altered QD. Q veining with py, as-py observed...sulfides also disseminated.	Igneous	Medium Grained	IMDQ
191141	507565	5652879	1706	ROCK	Subcrop	Hornfels sed. Qv's and sulfide (py and as-py) visible.	Sedimentary		SSWAqz
191150	507817	5651710	1169	ROCK	Outcrop	fe-carb altered QD lower extent of alteration zone before snow cover starts	Igneous	Medium Grained	IMDQ
191151	508049	5651836	1999	ROCKCHIP	Outcrop	qtz vein in fe carb altered QD	Igneous		IMDQ
191152	508081	5651820	2013	ROCKCHIP	Outcrop	qtz vein in fe carb altered QD some visible arsenopyrite and pyrite silicification as part of the alteration process on vein contact	Igneous	Medium Grained	IMDQ
191153	508130	5651779	2021	ROCK	Outcrop	fe carb altered QD. strong alteration. fine qtz veining with py and arsenopyrite observed in rocks	Igneous		IMDQ
191154	508156	5651793	2071	ROCKCHIP	Outcrop	qtz vein in fe carb altered QD strong presence of pyrite and arsenopyrite	Igneous	Medium Grained	IMDQ
191155	508173	5651735	2091	ROCK	Outcrop	qtz vein in fe carb altered QD	Igneous	Medium Grained	IMDQ
191156	508175	5651766	2080	ROCK	Outcrop	qtz vein in fe carb altered QD	Igneous	Medium Grained	IMDQ
191157	508184	5651778	2080	ROCKCHIP	Outcrop	qtz veining present with additional silicification as an alteration product. in QD	Igneous		IMDQ
191158	508159	5651769	2055	ROCK	Outcrop	qtz vein in fe carb altered QD	Igneous	Medium Grained	IMDQ
191159	507826	5652522	1782	ROCKCHIP	Subcrop	Altered hornfelsed sediments. Biotite altered to chlorite with visible py disseminated in rocks. As-py also present.	Sedimentary	Fine Grained	SSWA
191160	507818	5652528	1773	ROCKCHIP	Subcrop	Altered hornfelsed sed. Q-veins visible with py and as-py visible.	Sedimentary	Fine Grained	SSWA
191161	507798	5652285	1789	ROCKCHIP	Outcrop	QV in fresh QD porphyritic dyke...intruding sediments.	Igneous	Medium Grained	IMDQ
191182	508502	5651696	2250	ROCK	Outcrop	strong fe-carb qtz altered qtz-diorite. minor diss arseno.	Igneous	Medium Grained	IMDQ
191183	508508	5651705	2237	ROCK	Subcrop	intensely silicified and brecciated qtz dio. textures destroyed. vfg diss py and possibly arseno.	Igneous	Medium Grained	IMDQ
191184	508523	5651708	2248	ROCK	Outcrop	intense silicification. vfg diss py and poss arseno.	Igneous	Medium Grained	IMDQ
191185	508633	5652220	2165	ROCK	Talus	strongly altered fe-carb altered qtz dio? textures destroyed, locally brecciated and rotated qtz veinlets.	Igneous	Medium Grained	IMDQ

### Rock Sample Descriptions

Sample ID	UTM_E	UTM_N	Elevation (m)	Sample Type	Occurrence	Comments	Rock Group	Rock Sub Group	GF Lith Code
191186	508705	5652429	2160	ROCK	Outcrop	fg biotite alteration of gmass, strongly obscuring textures. plag phenos barely visible. strong hornfels.	Igneous	Porphyritic	IPD
191187	508703	5652435	2166	ROCK	Outcrop	dark grey silty hornfels sed with gossanous stain.	Sedimentary	Siliciclastic Sediments	SSWAqz
191193	508638	5652458	2180	ROCK	Talus	qtz-arsenopyrite vein? in talus	Sedimentary	Siliciclastic Sediments	SSWAqz
191194	508597	5652524	2156	ROCK	Talus	qtz-py-arseno vein material in float. yellowy jarositic colour.	Sedimentary	Siliciclastic Sediments	SSWAqz
191195	508638	5652639	2125	ROCKCHIP	Outcrop	carb vein	Sedimentary	Siliciclastic Sediments	SSWAqz
191261	508311	5651387	2285	ROCKCHIP	Outcrop	fe carb qtz dio w/ py	Igneous	Medium Grained	IMDQ
191262	507817	5652372	1807	ROCKCHIP	Subcrop	medium grey black well bedded hornfels seds. hornfels is qtz +/- py alt of gr mass	Sedimentary	Siliciclastic Sediments	SSWAqz
191263	507824	5652317	1793	ROCKCHIP	Outcrop	gossanous dark grey black well bedded hornfels seds. hornfels is qtz biotite py alt of gr mass	Sedimentary		SSWAqz
191264	507889	5652417	1812	ROCKCHIP	Outcrop	white to pink silicious dyke diss arsenopy and py	Igneous	Dyke	FDyk
191265	507877	5652433	1825	ROCKCHIP	Outcrop	white to pink silicious dyke diss arsenopy and py	Igneous	Dyke	MDyk
191266	507873	5652398	1813	ROCKCHIP	Outcrop	white to pink silicious dyke diss arsenopy and py	Igneous	Dyke	MDyk
191267	507872	5652386	1821	ROCKCHIP	Outcrop	white to pink silicious dyke diss arsenopy and py. faint felds phenocrysts.	Igneous	Dyke	MDyk
191268	507944	5652382	1838	ROCKCHIP	Outcrop	goss med grey hornfels seds qtz py moderately altered	Sedimentary	Siliciclastic Sediments	SSWAqz
191269	507897	5652379	1860	ROCKCHIP	Outcrop	cm scale chlorite banding. possible bedding or veining	Sedimentary	Siliciclastic Sediments	SSWAqz
191270	507904	5652224	1852	ROCK	Outcrop	med to drk grey alt seds w/ qtz +/- py	Sedimentary	Siliciclastic Sediments	SSWAqz
191271	508045	5652244	1880	ROCKCHIP	Outcrop	Highly altered seds. Fe-carb clay? Textures destroyed.	Igneous	Medium Grained	IMDQ
191272	508081	5652231	1885	ROCKCHIP	Outcrop	weathered gossanous arseno and scorodite vein	Igneous	Medium Grained	IMDQ
191273	508259	5652136	1989	ROCKCHIP	Subcrop	gossanous qtz-bt hornfels seds.	Sedimentary	Siliciclastic Sediments	SSWAqz
191274	508174	5652139	1932	ROCKCHIP	Outcrop	qtz veining in intense qtz-bt hornfels.	Sedimentary	Siliciclastic Sediments	SSWAqz
191275	508173	5652146	1950	ROCKCHIP	Outcrop	gossanous seds.	Sedimentary	Siliciclastic Sediments	SSWAqz
191276	508138	5652135	1944	ROCKCHIP	Outcrop	gossanous qtz-bt alt sed.	Sedimentary	Siliciclastic Sediments	SSWAqz
191277	508140	5652164	1948	ROCKCHIP	Subcrop	fe-carb? clay alt sed. textures destroyed. rock id very hard.	Sedimentary	Siliciclastic Sediments	SSWAqz
191278	508130	5652166	1901	ROCKCHIP	Outcrop	fe-carb? clay alt sed. textures destroyed. rock id very hard.	Sedimentary	Siliciclastic Sediments	SSWAqz
191279	508114	5652191	1900	ROCKCHIP	Outcrop	fe-carb? clay alt sed. textures destroyed. rock id very hard.	Sedimentary	Siliciclastic Sediments	SSWAqz
191281	509617	5647842	2030	ROCKCHIP	Outcrop	lucky strike vein sample	Igneous	Fine Grained	IFU
191351	508207	5652639	2004	ROCKCHIP	Outcrop	fine grained drk grey hornfel sed w/ diss py and biotite	Sedimentary	Siliciclastic Sediments	SSWAqz
191282	507921	5652595	1845	ROCK	Subcrop	could be float. pale orange bleached qtz dio? strong fe-carb clay alt masks orig rock.minor diss sulphides.	Igneous	Medium Grained	IMDQ
191283	508036	5652638	1896	ROCKCHIP	Outcrop	silicified seds with diss sulphides.	Sedimentary		SSWA
191284	508172	5652610	1967	ROCKCHIP	Subcrop	well bedded strong qtz-bt-py hornfels of seds.	Sedimentary	Siliciclastic Sediments	SSWA
191285	507470	5652767	1665	ROCKCHIP	Outcrop	highly alt seds. orange gossan weathering. white chalky fresh faces. fe-oxide clay alt?	Sedimentary	Siliciclastic Sediments	SSWA
191355	508041	5652263	1861	ROCKCHIP	Outcrop	highly gossanous and clay altered seds? textures destroyed.	Sedimentary	Siliciclastic Sediments	SSWA
191356	507977	5652348	1833	ROCKCHIP	Outcrop	highly gossanous and friable. rare fresh faces show strong hornfels bt+-qtz.	Sedimentary	Siliciclastic Sediments	SSWA
191357	507974	5652376	1852	ROCKCHIP	Outcrop	fe-carb vein in alt seds	Sedimentary	Siliciclastic Sediments	SSWA
191286	507941	5652436	1802	ROCKCHIP	Outcrop	highly gossanous and friable. rare fresh faces show strong hornfels bt+-qtz+-py	Sedimentary	Siliciclastic Sediments	SSWA
191287	507932	5652442	1807	ROCKCHIP	Outcrop	white to pink silicious dyke diss arsenopy and py	Igneous	Dyke	FDyk
191359	507932	5652458	1787	ROCKCHIP	Outcrop	light grey cream seds with patchy diss py and as. poss stib. found in situ in creek bed	Sedimentary	Siliciclastic Sediments	SSWA
191358	507906	5652469	1791	ROCKCHIP	Outcrop	strong fe-ox and minor py in seds.	Sedimentary	Siliciclastic Sediments	SSWA
191360	508117	5651812	2039	FLOAT	Float	Scordite-asy-sb altered QD	Igneous	Medium Grained	IMDQ

### Rock Sample Descriptions

Sample ID	UTM_E	UTM_N	Elevation (m)	Sample Type	Occurrence	Comments	Rock Group	Rock Sub Group	GF Lith Code
191361	507947	5652312	1844	ROCK	Outcrop	Robson vein sample - Aspy-py in sediments.	Sedimentary	Siliciclastic Sediments	SSWA
191362	507941	5652473	1804	STR_PLUS	Float	Aspy vein from old addict next to stream.	Sedimentary	Siliciclastic Sediments	SSWA
191363	507423	5652544	1713	FLOAT	Float	QV float on main road - not able to confirm host rock as sediment.	Misc		UG
191364	507963	5651734	2107	ROCKCHIP	Outcrop	fe-carb sulphide vein.	Igneous	Medium Grained	IMDQ
191365	507989	5651699	2127	ROCKCHIP	Outcrop	fe-carb-py-arseno vein in strong fe-carb alt zone	Igneous	Medium Grained	IMDQ
191366	508036	5651718	2094	ROCKCHIP	Outcrop	qtz-felds pegmatitic vein/dyke	Igneous	Dyke	FDyk
191367	508031	5651674	2124	ROCKCHIP	Outcrop	fe-carb-qtz-py+-arseno vein	Igneous	Medium Grained	IMDQ
191370	507940	5651823	2040	ROCKCHIP	Outcrop	qtz-fe-carb-sulph vein.	Igneous	Medium Grained	IMDQ
191371	507885	5651881	2023	ROCKCHIP	Outcrop	strong fe-carb alt qtz dio. thin fe-carb+- py veinlets all parallel.	Igneous	Medium Grained	IMDQ
191372	508651	5652491	2187	ROCKCHIP	Outcrop	As-py-scoridite vein	Sedimentary	Siliciclastic Sediments	SSWA
191373	508616	5652367	2197	ROCK	Float	arseno veins in clay alt seds.	Sedimentary	Siliciclastic Sediments	SSWA

## Rock Code Legend

GF Lith Code	Description
BCMI	Cataclastic - Breccia
FDyk	Felsic Dyke
IDyk	Intermediate Dyke - Intrusive
IFBA	Basaltic Intrusion - Fine Grained
IFU	Fine Grained Ultramafic - Intrusive
IMD	Medium Grained Diorite - Intrusive
IMDQ	Medium Grained Quartz Diorite - Intrusive
IMGD	Medium Grained Granodiorite - Intrusive
IMU	Medium Grained Ultramafic - Intrusive
IPD	Pophyritic Diorite - Intrusive
MDyk	Mafic Dyke
MUHO	Hornfels
SCCH	Chert - Furgusson Ribbon Cherts
SSCO	Siliciclastic Conglomerate
SSSL	Siliciclastic Sandstone - Lithic
SSWA	Siliciclastic Wacke - used for Hurley Sediments
SSWAfp	Siliciclastic Feldspathic Wacke
SSWAqz	Siliciclastic Quartz Wacke
UA	Undifferentiated - Altered
Vein	Quartz and Quartz Carbonate veins



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Page: 1  
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**CERTIFICATE VA11139665**

Project: Eldorado  
P.O. No.: ELD- 2011- 002r  
This report is for 98 Rock samples submitted to our lab in Vancouver, BC, Canada on 21- JUL- 2011.

The following have access to data associated with this certificate:

ELEANOR BLACK  
TWILA SKINNER

MATT ECKFELDT  
ARNAND VAN HEERDEN

ROSS SHERLOCK

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: GFE EXPLORATION CORPORATION  
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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:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 4 (A - C)  
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**CERTIFICATE OF ANALYSIS VA11139665**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
191051		1.02	0.013	<0.5	8.32	9	450	0.9	<2	3.26	<0.5	16	28	74	4.38	20
191052		0.98	0.007	<0.5	3.69	78	2390	0.5	<2	1.47	<0.5	7	18	35	2.22	10
191053		1.54	0.007	<0.5	7.75	57	130	0.6	<2	2.96	<0.5	16	26	34	3.83	20
191054		1.34	0.353	0.5	2.36	1910	200	<0.5	<2	0.35	<0.5	4	18	15	2.15	<10
191055		1.18	0.471	0.8	2.04	1635	190	<0.5	<2	0.07	<0.5	3	26	18	2.28	<10
191056		1.48	1.105	98.6	0.26	1885	30	<0.5	<2	4.44	2.2	3	16	866	1.18	<10
191057		2.02	0.026	<0.5	0.17	39	20	<0.5	<2	0.30	<0.5	12	15	8	0.19	<10
191058		1.94	0.005	<0.5	1.09	59	90	<0.5	<2	11.90	<0.5	36	1270	13	3.34	<10
191059		2.30	0.015	<0.5	0.44	142	40	<0.5	<2	4.25	<0.5	35	975	7	2.90	<10
191060		2.22	0.049	<0.5	3.01	54	130	<0.5	3	0.10	<0.5	8	79	16	2.51	10
191061		1.44	0.002	<0.5	8.58	30	610	1.0	<2	1.44	<0.5	12	45	42	5.30	20
191062		1.38	0.002	<0.5	8.05	10	620	0.7	<2	4.07	0.6	13	30	60	6.41	20
191063		1.34	0.001	<0.5	8.05	8	410	0.7	<2	2.94	<0.5	7	47	14	3.58	20
191064		0.92	<0.001	<0.5	8.40	16	870	0.8	2	7.13	<0.5	8	13	46	5.68	20
191065		1.68	0.002	<0.5	8.39	25	850	1.0	<2	2.13	<0.5	7	23	61	4.86	20
191066		1.48	0.001	<0.5	7.36	10	630	0.6	2	2.89	<0.5	8	26	11	3.40	20
191067		1.12	0.001	<0.5	7.96	94	1080	1.0	2	1.06	<0.5	4	30	35	4.66	20
191068		1.28	0.004	<0.5	8.50	544	840	1.1	2	1.65	<0.5	13	36	44	5.80	20
191069		0.90	0.023	<0.5	4.70	903	590	<0.5	<2	0.73	<0.5	3	11	51	1.84	10
191070		0.96	0.003	<0.5	8.74	62	500	0.7	2	0.84	<0.5	12	34	55	5.33	20
191071		1.18	0.016	<0.5	8.77	273	500	0.5	<2	5.09	<0.5	21	134	45	3.91	20
191072		1.18	0.001	0.5	8.06	8	420	0.8	2	4.38	<0.5	6	45	82	4.18	20
191073		1.28	0.010	<0.5	4.32	167	100	<0.5	<2	6.38	1.6	10	59	22	3.81	10
191074		0.78	<0.001	<0.5	7.22	8	390	0.7	2	4.11	<0.5	14	79	225	4.26	20
191075		1.04	0.003	<0.5	8.21	22	110	0.6	2	4.59	<0.5	14	85	27	3.83	20
191076		1.06	0.004	<0.5	7.50	7	340	0.6	<2	3.38	<0.5	13	83	36	3.29	20
191077		2.04	0.018	<0.5	6.60	150	290	0.7	<2	4.46	<0.5	12	65	52	5.34	20
191078		1.40	8.82	1.5	0.20	>10000	20	<0.5	38	0.05	<0.5	51	5	11	21.3	<10
191079		1.12	0.019	<0.5	7.86	475	1510	0.9	<2	1.52	1.7	6	23	32	4.22	20
191080		0.76	0.011	<0.5	8.55	178	560	0.8	<2	1.80	2.0	3	39	67	4.50	20
191081		1.52	0.002	<0.5	8.69	41	450	0.7	<2	1.07	<0.5	14	34	46	5.29	20
191082		1.28	0.003	<0.5	8.71	34	460	0.7	<2	0.84	<0.5	14	35	54	5.18	20
191083		1.38	0.030	<0.5	8.71	25	510	0.8	<2	0.70	<0.5	8	42	38	5.29	20
191084		2.20	0.001	<0.5	8.52	30	540	0.7	<2	1.18	<0.5	13	34	39	5.51	20
191085		0.98	0.155	<0.5	7.45	2150	520	0.9	<2	0.15	0.9	3	79	59	2.88	30
191086		1.50	0.009	<0.5	6.88	65	270	0.5	<2	4.25	0.6	11	57	202	3.15	20
191087		1.34	0.003	<0.5	7.97	15	1010	0.9	<2	3.41	2.3	9	34	66	5.12	20
191088		1.28	<0.001	<0.5	8.03	8	3550	0.8	<2	0.54	<0.5	6	8	40	4.96	20
191089		1.20	0.001	<0.5	8.25	13	880	0.8	<2	1.28	0.7	13	24	49	4.65	20
191090		1.36	0.003	0.5	7.81	36	820	0.7	<2	0.35	1.1	10	54	79	4.95	20



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Page: 2 - B  
 Total # Pages: 4 (A - C)  
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**CERTIFICATE OF ANALYSIS VA11139665**

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 Units LOR	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
191051		1.24	20	1.70	570	<1	3.01	15	1480	8	0.02	8	11	596	<20	0.46
191052		0.16	10	0.49	383	<1	0.08	8	310	8	0.08	18	6	283	<20	0.20
191053		0.09	20	1.09	693	<1	0.02	19	820	13	0.08	28	11	614	<20	0.41
191054		0.22	10	0.13	145	<1	0.03	6	410	15	0.56	83	4	476	<20	0.12
191055		0.24	10	0.04	180	<1	0.03	9	240	10	0.39	95	2	281	<20	0.11
191056		0.03	10	2.10	1855	<1	0.01	4	30	2710	0.61	>10000	1	157	<20	<0.01
191057		0.01	10	0.04	30	<1	0.01	299	50	<2	7.57	>10000	1	32	<20	<0.01
191058		0.12	10	7.35	1170	<1	0.02	582	80	10	0.04	1490	9	1970	<20	0.09
191059		0.12	10	10.25	478	<1	0.01	570	10	<2	0.95	>10000	5	414	<20	<0.01
191060		0.11	10	0.08	483	<1	0.03	38	140	6	0.43	88	8	98	<20	0.20
191061		0.96	10	0.81	526	22	2.93	10	1100	8	0.39	206	24	210	<20	0.45
191062		0.96	20	1.02	1555	2	2.34	11	1130	9	0.68	23	27	257	<20	0.58
191063		0.88	10	1.30	519	<1	3.20	12	860	7	0.51	59	10	518	<20	0.40
191064		0.55	20	1.26	1715	1	1.35	5	1210	8	0.32	25	26	283	<20	0.55
191065		1.36	20	1.12	539	1	1.38	8	550	7	0.46	42	20	143	<20	0.42
191066		0.33	20	1.00	556	<1	0.38	9	960	11	0.03	14	9	367	<20	0.38
191067		1.26	20	0.76	468	2	2.52	5	830	8	0.12	40	21	201	<20	0.39
191068		0.93	20	1.03	728	<1	2.77	10	660	8	0.04	19	30	247	<20	0.55
191069		0.38	10	0.11	346	<1	0.05	5	630	5	0.09	21	10	510	<20	0.19
191070		1.73	10	1.06	301	<1	1.44	12	330	5	0.38	8	26	167	<20	0.38
191071		0.27	20	2.26	743	<1	0.25	55	1230	6	0.06	14	16	1490	<20	0.51
191072		0.29	10	0.90	1420	3	2.14	10	680	10	0.34	7	21	195	<20	0.45
191073		0.23	10	2.99	732	<1	0.28	23	410	5	0.11	13	8	273	<20	0.24
191074		0.69	20	2.01	672	<1	2.39	34	1020	9	0.06	<5	14	569	<20	0.41
191075		0.23	20	1.89	631	2	0.15	34	880	14	0.01	13	12	357	<20	0.45
191076		0.57	20	1.42	527	1	0.33	31	800	13	0.05	11	11	730	<20	0.39
191077		0.67	20	1.72	1160	<1	1.41	31	700	20	0.14	12	15	668	<20	0.33
191078		0.04	10	0.02	48	<1	0.01	2	40	23	4.67	287	4	11	<20	0.01
191079		1.14	20	0.59	639	1	2.45	9	380	7	0.18	<5	25	329	<20	0.52
191080		1.06	10	0.59	316	8	2.18	6	540	16	0.51	10	24	191	<20	0.59
191081		1.45	10	1.11	362	<1	1.43	15	360	5	0.20	<5	25	148	<20	0.41
191082		1.28	10	0.83	567	<1	1.04	15	390	8	0.43	5	23	117	<20	0.42
191083		1.63	10	0.79	270	<1	1.25	10	430	8	0.27	5	24	129	<20	0.36
191084		1.49	10	1.04	365	<1	1.52	12	390	6	0.14	6	23	162	<20	0.38
191085		3.33	10	0.43	95	<1	0.23	11	510	5	0.26	15	8	27	<20	0.31
191086		0.60	10	1.65	507	<1	0.94	27	660	33	0.15	11	9	553	<20	0.37
191087		0.78	10	1.04	1580	1	2.36	12	1080	9	0.66	10	23	258	<20	0.48
191088		1.76	10	0.67	544	1	0.75	4	750	6	<0.01	7	17	261	<20	0.41
191089		1.20	10	0.67	373	<1	2.02	14	470	10	0.24	6	20	220	<20	0.51
191090		1.29	10	0.38	235	3	1.47	28	670	11	0.38	8	22	147	<20	0.42



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Page: 2 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 14- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11139665**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Tl	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
191051		<10	20	137	<10	61
191052		<10	<10	64	10	39
191053		<10	<10	128	30	77
191054		<10	<10	38	10	47
191055		<10	<10	29	20	26
191056		<10	<10	6	<10	164
191057		<10	<10	1	<10	<2
191058		<10	<10	45	20	50
191059		<10	<10	22	290	25
191060		<10	<10	71	10	43
191061		<10	<10	208	<10	101
191062		<10	<10	228	<10	155
191063		<10	20	116	<10	68
191064		<10	<10	131	<10	138
191065		<10	<10	112	20	95
191066		<10	<10	105	<10	72
191067		<10	10	146	<10	95
191068		<10	10	181	<10	112
191069		<10	<10	36	<10	46
191070		<10	<10	156	<10	94
191071		<10	<10	164	<10	66
191072		<10	10	149	<10	129
191073		<10	<10	79	<10	185
191074		<10	10	128	<10	69
191075		<10	<10	125	10	97
191076		<10	<10	116	<10	79
191077		<10	10	113	<10	99
191078		<10	<10	17	<10	9
191079		<10	<10	173	<10	128
191080		<10	<10	250	<10	135
191081		<10	<10	152	<10	98
191082		<10	<10	144	<10	96
191083		<10	<10	162	<10	75
191084		<10	<10	152	<10	94
191085		<10	<10	99	10	76
191086		<10	<10	98	<10	143
191087		<10	<10	143	<10	347
191088		<10	<10	56	<10	87
191089		<10	<10	170	<10	136
191090		<10	<10	209	<10	184





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Page: 3 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 14- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11139665**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
191091		1.64	0.031	0.6	8.05	534	1640	0.8	<2	0.05	0.5	8	34	89	5.02	20
191092		1.56	0.553	3.1	6.37	2680	840	<0.5	106	0.04	<0.5	4	45	34	2.51	20
191093		1.66	0.029	<0.5	8.24	233	240	0.6	<2	7.57	<0.5	29	250	46	5.63	20
191094		1.34	0.051	<0.5	0.49	323	10	<0.5	<2	1.66	<0.5	75	1270	5	4.89	<10
191095		1.38	0.001	<0.5	0.55	10	10	<0.5	2	4.08	<0.5	103	1810	14	4.99	<10
191096		1.04	0.005	<0.5	1.42	19	90	<0.5	<2	1.05	<0.5	80	1330	28	5.13	<10
191097		1.42	0.010	<0.5	0.22	91	30	<0.5	<2	5.44	<0.5	36	692	7	2.98	<10
191098		1.86	0.005	<0.5	3.19	35	140	<0.5	<2	8.85	<0.5	9	107	16	3.36	10
191099		1.04	0.014	<0.5	2.52	196	90	<0.5	<2	12.60	<0.5	6	51	13	3.53	<10
191100		1.52	0.123	1.1	1.96	561	130	<0.5	<2	8.63	2.1	3	39	26	2.16	<10
191101		0.94	0.050	<0.5	6.32	188	120	0.6	<2	6.82	<0.5	19	137	31	4.09	10
191102		0.76	0.065	<0.5	1.58	131	90	0.7	2	10.25	<0.5	75	3240	130	3.71	10
191103		2.46	0.046	<0.5	8.60	152	110	0.7	<2	4.22	<0.5	14	29	144	4.21	20
191104		1.66	0.048	<0.5	7.68	86	140	0.7	<2	4.32	<0.5	17	87	80	4.32	20
191105		1.24	0.006	<0.5	7.68	32	100	0.6	<2	5.33	<0.5	19	106	198	4.38	20
191106		1.02	0.015	<0.5	5.63	34	240	<0.5	<2	4.98	<0.5	9	36	87	3.12	10
191107		1.36	0.006	<0.5	6.15	22	90	0.5	<2	5.66	<0.5	15	64	31	3.74	10
191108		1.44	0.006	<0.5	5.86	40	460	0.5	<2	7.87	<0.5	20	77	9	4.61	10
191109		1.14	0.008	<0.5	6.57	10	180	<0.5	<2	4.64	<0.5	14	28	29	3.86	10
191110		1.22	0.736	1.2	1.71	1730	250	<0.5	3	1.19	<0.5	4	28	16	2.48	<10
191111		1.40	0.031	<0.5	8.79	12	150	0.7	<2	4.18	<0.5	19	36	41	4.63	20
191113		0.98	0.186	<0.5	8.26	20	270	0.7	<2	3.43	<0.5	14	56	94	4.63	20
191114		1.20	0.037	<0.5	6.95	115	90	<0.5	<2	6.20	<0.5	14	65	14	3.87	20
191115		1.32	0.021	<0.5	8.44	45	130	0.6	<2	6.11	<0.5	18	84	28	4.22	20
191116		1.36	0.046	<0.5	4.70	50	180	<0.5	<2	6.66	<0.5	8	15	9	3.87	10
191117		1.64	0.005	<0.5	3.73	22	120	<0.5	<2	12.05	<0.5	6	12	9	5.22	10
191118		1.54	0.016	<0.5	9.49	64	110	1.0	<2	4.12	<0.5	24	42	84	4.59	20
191119		1.58	0.011	<0.5	8.25	22	280	0.7	<2	7.00	<0.5	16	17	82	4.30	20
191120		1.88	0.027	<0.5	5.51	147	330	0.5	<2	4.99	<0.5	12	32	69	3.29	10
191121		1.56	0.004	<0.5	8.27	74	170	0.8	<2	6.77	<0.5	22	159	27	4.28	20
191122		1.06	0.033	<0.5	7.93	64	310	0.6	<2	2.02	<0.5	16	70	96	4.17	20
191123		1.44	0.012	<0.5	7.34	170	520	0.6	<2	0.22	<0.5	11	46	129	2.31	20
191124		1.32	0.002	<0.5	9.11	58	610	0.7	<2	0.05	<0.5	12	78	36	2.87	20
191125		1.66	0.003	<0.5	7.65	67	860	0.7	<2	0.13	<0.5	12	65	19	2.62	20
191126		1.70	0.006	<0.5	6.52	85	540	0.5	<2	2.19	<0.5	10	61	23	2.48	20
191127		1.54	0.861	1.2	1.82	1825	710	0.5	<2	0.04	<0.5	6	37	17	3.48	10
191128		2.26	0.007	<0.5	6.21	54	290	0.8	2	0.05	<0.5	12	56	26	2.02	20
191129		1.16	0.013	<0.5	8.89	52	580	0.7	<2	0.20	<0.5	17	36	157	3.48	20
191130		2.04	0.011	<0.5	7.30	85	390	0.5	<2	2.76	<0.5	12	65	73	3.10	20
191131		1.52	0.007	<0.5	7.65	63	690	0.8	<2	1.38	<0.5	10	63	33	2.68	20



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Page: 3 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 14- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11139665**

Sample Description	Method Analyte Units LOR	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	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
191091		2.36	10	0.18	574	5	0.09	20	720	8	0.10	15	23	323	<20	0.38
191092		1.81	10	0.17	91	5	0.06	8	340	20	0.05	57	17	193	<20	0.34
191093		0.18	10	2.68	1085	<1	0.06	106	500	9	0.05	7	20	379	<20	0.55
191094		0.04	10	19.85	1085	<1	0.02	1455	10	<2	0.03	148	7	96	<20	0.01
191095		0.01	10	18.10	937	<1	0.02	1970	10	<2	<0.01	6	9	64	<20	0.01
191096		0.12	10	18.75	820	<1	0.17	1555	60	3	0.12	5	10	70	<20	0.04
191097		0.01	10	12.70	615	<1	0.02	856	20	<2	0.01	14	5	159	<20	<0.01
191098		0.04	10	4.07	855	<1	0.03	47	330	5	<0.01	61	8	410	<20	0.18
191099		0.11	10	5.66	3950	<1	0.01	27	270	2	0.01	61	6	407	<20	0.14
191100		0.09	10	3.74	5020	<1	0.02	19	230	53	0.04	127	5	353	<20	0.12
191101		0.24	10	3.15	1645	<1	0.01	84	590	16	0.04	481	14	440	<20	0.33
191102		0.32	10	7.83	1260	<1	0.02	3520	30	<2	0.22	851	11	593	<20	0.08
191103		0.16	10	1.61	822	<1	0.03	18	1200	7	0.35	20	10	299	<20	0.44
191104		0.14	10	1.41	707	<1	0.02	38	940	7	0.07	28	12	281	<20	0.48
191105		0.13	10	2.34	807	<1	0.02	77	890	14	0.10	22	13	297	<20	0.47
191106		0.24	20	2.06	406	<1	0.03	22	680	10	0.08	14	8	684	<20	0.28
191107		0.12	10	2.57	702	<1	0.03	34	770	10	0.04	21	11	685	<20	0.36
191108		0.06	10	3.52	873	<1	0.03	50	1160	5	0.03	14	13	1055	<20	0.34
191109		0.09	10	2.08	718	<1	0.06	20	590	7	0.03	7	12	519	<20	0.36
191110		0.33	10	0.46	279	<1	0.02	8	320	17	0.82	72	3	329	<20	0.09
191111		0.19	10	1.68	771	<1	0.03	17	950	9	0.29	<5	16	303	<20	0.55
191113		0.61	10	1.42	644	<1	0.70	26	930	10	0.13	9	12	418	<20	0.46
191114		0.20	10	2.35	730	<1	0.02	32	770	10	0.12	61	13	277	<20	0.41
191115		0.36	10	2.23	809	<1	0.03	30	970	10	0.09	67	15	331	<20	0.51
191116		0.20	10	2.85	813	<1	0.04	10	480	17	0.04	19	7	401	<20	0.25
191117		0.25	<10	5.41	1125	<1	0.54	7	340	9	0.01	6	6	522	<20	0.19
191118		0.03	<10	1.53	1110	<1	0.02	23	1120	13	0.34	11	16	493	<20	0.57
191119		0.03	<10	2.80	873	<1	0.03	9	750	10	0.17	7	13	927	<20	0.44
191120		0.18	<10	2.12	708	<1	0.03	10	670	6	0.41	11	9	806	<20	0.30
191121		0.05	<10	2.43	1060	<1	0.02	64	870	9	0.06	29	16	670	<20	0.43
191122		0.92	10	0.62	651	1	0.06	30	820	11	0.01	8	12	204	<20	0.42
191123		1.28	10	0.09	225	4	0.08	16	340	13	0.01	15	6	347	<20	0.35
191124		0.80	10	0.04	311	2	0.05	32	520	19	0.01	<5	6	518	<20	0.39
191125		1.56	10	0.07	374	3	0.10	33	530	14	0.01	12	5	463	<20	0.31
191126		0.95	10	0.35	445	2	0.07	25	660	13	0.03	5	6	814	<20	0.28
191127		0.28	<10	0.04	100	1	0.03	12	100	14	0.38	109	2	124	<20	0.07
191128		0.14	10	0.04	308	<1	0.03	31	710	13	0.01	7	4	864	<20	0.26
191129		0.21	20	0.08	518	3	0.02	18	870	18	0.11	21	9	745	<20	0.38
191130		0.11	10	1.03	615	2	0.03	28	620	19	0.07	23	8	743	<20	0.31
191131		1.67	10	0.30	480	2	1.15	26	570	17	0.04	9	7	462	<20	0.31



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Page: 3 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 14- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11139665**

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		Tl	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
191091		<10	<10	142	<10	104
191092		<10	<10	207	10	77
191093		<10	<10	189	<10	92
191094		<10	<10	29	<10	49
191095		<10	10	39	<10	41
191096		<10	<10	57	<10	55
191097		<10	<10	19	<10	37
191098		<10	<10	85	10	36
191099		<10	<10	52	20	24
191100		<10	<10	37	20	278
191101		<10	<10	167	20	65
191102		<10	<10	54	10	153
191103		<10	<10	163	10	75
191104		<10	<10	154	40	81
191105		<10	<10	153	70	123
191106		<10	<10	94	20	54
191107		<10	<10	125	20	93
191108		<10	<10	157	30	60
191109		<10	<10	134	<10	65
191110		<10	<10	34	<10	35
191111		<10	<10	204	30	70
191113		<10	<10	146	30	71
191114		<10	<10	131	20	54
191115		<10	<10	159	20	58
191116		<10	<10	86	10	56
191117		<10	<10	66	10	39
191118		<10	<10	223	80	97
191119		<10	<10	152	70	75
191120		<10	<10	103	20	48
191121		<10	<10	148	90	85
191122		<10	<10	130	<10	85
191123		<10	<10	83	<10	36
191124		<10	<10	93	<10	75
191125		<10	<10	74	<10	54
191126		<10	<10	72	40	51
191127		<10	<10	27	<10	11
191128		<10	<10	59	<10	57
191129		<10	<10	104	10	51
191130		<10	<10	82	20	71
191131		<10	<10	77	20	81



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Page: 4 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 14- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11139665**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
191132		1.54	0.062	<0.5	2.58	210	180	0.6	<2	0.40	<0.5	4	28	42	1.24	10
191133		1.44	0.004	<0.5	7.75	26	650	0.9	<2	0.63	0.5	12	66	62	2.70	20
191134		1.56	0.044	<0.5	7.43	550	130	0.8	<2	3.90	<0.5	7	31	28	1.58	20
191135		1.36	0.251	<0.5	9.31	1430	310	1.1	<2	2.64	<0.5	22	44	49	3.32	20
191136		1.44	0.038	<0.5	8.81	148	450	1.0	<2	2.08	<0.5	4	37	45	4.73	20
191137		1.66	0.064	<0.5	10.05	133	350	1.1	<2	2.97	0.5	11	62	39	3.86	20
191138		1.72	0.130	<0.5	7.70	123	140	0.8	2	6.29	<0.5	11	54	65	4.32	20
191139		1.90	0.009	<0.5	7.15	109	140	<0.5	<2	5.44	<0.5	12	31	43	5.11	10
191140		1.38	0.004	<0.5	6.85	102	130	0.6	<2	4.44	<0.5	8	57	6	3.13	20
191141		1.22	0.002	<0.5	8.31	57	720	0.6	<2	3.70	0.8	21	21	29	5.11	20
191142		1.60	0.007	<0.5	9.50	19	1420	0.8	<2	1.25	<0.5	13	32	38	5.66	20
191143		1.62	<0.001	0.6	7.33	18	690	0.7	<2	0.32	<0.5	9	35	42	4.53	20
191144		1.96	<0.001	<0.5	7.67	<5	330	1.0	<2	3.90	0.6	17	93	53	6.14	20
191145		1.54	<0.001	<0.5	7.71	6	540	1.2	<2	6.63	2.1	43	497	73	7.25	20
191146		2.20	<0.001	0.8	7.11	5	590	0.7	<2	3.53	9.6	22	247	89	4.74	20
191147		1.26	<0.001	1.2	7.63	5	570	0.6	<2	0.24	2.8	10	89	77	3.31	20
191148		2.56	<0.001	<0.5	3.98	6	980	<0.5	<2	23.0	<0.5	5	21	18	1.82	10
191149		1.32	<0.001	<0.5	8.17	11	690	1.1	<2	2.16	<0.5	14	40	26	4.11	20



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Page: 4 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 14- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11139665**

Sample Description	Method Analyte Units LOR	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	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
191132		0.64	<10	0.08	369	<1	0.03	13	130	6	0.01	26	2	151	<20	0.08
191133		1.47	10	0.13	443	2	1.04	30	570	18	0.01	5	7	392	<20	0.32
191134		0.49	<10	0.64	139	4	1.50	11	670	5	0.37	<5	13	229	<20	0.25
191135		0.99	10	1.01	321	<1	3.75	17	400	4	0.44	<5	15	367	<20	0.54
191136		1.19	10	1.14	398	1	3.06	6	770	3	0.15	<5	11	523	<20	0.46
191137		1.10	<10	1.13	312	<1	3.72	20	670	6	0.22	<5	17	418	<20	0.55
191138		0.30	<10	1.48	734	<1	1.39	15	680	8	0.31	<5	10	396	<20	0.32
191139		0.40	<10	0.53	1045	2	0.05	19	500	8	0.15	15	14	69	<20	0.29
191140		0.08	10	0.36	694	1	0.03	16	610	4	0.03	<5	8	681	<20	0.37
191141		1.28	<10	1.05	1320	2	0.70	14	1050	2	0.19	30	32	254	<20	0.66
191142		1.39	<10	1.09	778	<1	1.49	16	780	10	0.16	14	25	226	<20	0.50
191143		0.53	10	0.53	324	<1	0.20	9	360	6	0.01	32	24	55	<20	0.39
191144		0.28	10	1.44	701	1	1.86	43	1410	17	1.15	<5	18	329	<20	0.44
191145		0.36	20	3.71	1345	1	2.18	213	2440	5	0.02	<5	28	523	<20	0.95
191146		0.44	10	1.32	691	7	2.81	97	1520	7	0.70	5	24	495	<20	0.64
191147		0.57	10	0.11	280	7	2.67	23	560	8	0.07	<5	20	291	<20	0.32
191148		0.09	<10	0.34	2400	2	0.21	7	2890	5	0.84	<5	8	264	<20	0.19
191149		1.25	10	1.28	596	<1	2.19	20	860	10	0.03	<5	14	336	<20	0.43



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Page: 4 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 14- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11139665**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		TI	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
191132		<10	<10	23	<10	24
191133		<10	<10	83	<10	65
191134		<10	<10	112	<10	29
191135		<10	<10	160	<10	43
191136		<10	<10	111	<10	57
191137		<10	<10	160	<10	56
191138		<10	<10	95	<10	59
191139		<10	<10	96	10	66
191140		<10	<10	84	20	83
191141		<10	<10	286	<10	157
191142		<10	<10	152	<10	68
191143		<10	<10	135	<10	112
191144		<10	<10	105	<10	139
191145		<10	<10	241	<10	179
191146		<10	<10	391	<10	506
191147		<10	10	309	<10	262
191148		<10	<10	82	<10	62
191149		<10	<10	124	<10	97



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Page: 1  
 Finalized Date: 30- AUG- 2011  
 Account: ELGFEC

**CERTIFICATE VA11144271**

Project: Eldorado  
 P.O. No.: ELD- 2011- 005r  
 This report is for 46 Rock samples submitted to our lab in Vancouver, BC, Canada on 28- JUL- 2011.

The following have access to data associated with this certificate:

ELEANOR BLACK  
 TWILA SKINNER

MATT ECKFELDT  
 ARNAND VAN HEERDEN

ROSS SHERLOCK

**SAMPLE PREPARATION**

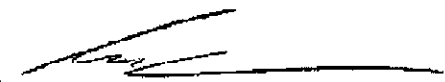
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: GFE EXPLORATION CORPORATION  
 ATTN: ELEANOR BLACK  
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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:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 3 (A - C)  
 Finalized Date: 30- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11144271**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %	ME- ICP61 Ga ppm
191150		1.14	0.026	<0.5	6.50	87	560	0.6	<2	1.88	<0.5	9	59	101	2.83	20
191151		1.72	0.161	<0.5	2.46	572	250	0.5	4	0.18	<0.5	4	26	18	0.91	10
191152		1.88	0.004	<0.5	5.95	47	350	0.7	<2	1.02	<0.5	7	50	29	2.13	20
191153		1.64	0.010	<0.5	5.72	301	370	0.8	<2	3.86	<0.5	8	45	28	2.56	10
191154		1.86	0.483	<0.5	4.61	32	220	0.6	2	9.25	<0.5	9	5	42	4.34	10
191155		1.72	0.004	<0.5	5.39	22	260	0.5	<2	2.55	<0.5	8	12	28	2.41	10
191156		1.50	0.002	<0.5	6.27	24	330	0.5	<2	2.29	<0.5	10	10	44	2.93	10
191157		1.28	0.012	<0.5	2.58	100	120	<0.5	<2	2.42	<0.5	4	14	12	1.64	10
191158		1.50	0.026	<0.5	6.59	335	700	0.8	<2	6.65	<0.5	8	6	27	4.18	10
191159		1.88	0.001	<0.5	7.01	10	1150	0.9	<2	2.44	<0.5	2	28	14	2.44	10
191160		2.18	0.003	<0.5	7.45	18	380	0.9	2	2.36	<0.5	1	33	10	1.73	10
191161		1.40	0.025	<0.5	7.50	534	280	0.8	<2	2.48	0.8	12	105	8	4.43	20
191162		1.30	<0.001	<0.5	7.83	8	580	1.0	4	0.74	<0.5	5	8	7	1.67	20
191163		1.40	0.692	1.0	7.61	280	220	0.8	15	2.60	<0.5	16	76	327	6.02	20
191164		2.08	0.077	<0.5	3.29	184	200	0.5	2	4.52	<0.5	6	16	70	2.30	10
191165		1.16	0.144	<0.5	2.86	1015	680	<0.5	<2	1.72	<0.5	7	26	24	1.53	10
191166		1.48	0.005	<0.5	4.62	30	240	0.5	<2	9.93	<0.5	8	13	15	4.39	10
191167		1.90	0.728	<0.5	5.61	51	140	0.5	<2	6.41	<0.5	11	31	55	3.57	10
191168		1.40	0.059	<0.5	5.16	15	180	0.6	<2	4.35	<0.5	8	15	58	2.93	10
191169		1.38	0.019	<0.5	7.28	12	260	0.6	<2	3.97	<0.5	14	32	40	4.05	20
191170		1.48	0.025	<0.5	5.41	110	310	0.8	2	0.27	<0.5	10	4	32	1.26	10
191171		2.06	0.009	<0.5	4.37	11	180	0.5	<2	3.41	<0.5	7	21	9	2.30	10
191172		1.44	0.017	<0.5	7.96	52	210	0.8	<2	4.23	<0.5	15	24	64	4.48	20
191173		1.18	<0.001	<0.5	6.72	61	150	0.6	2	3.72	<0.5	14	30	27	4.07	20
191174		1.64	1.020	0.7	3.91	1620	400	0.6	2	0.13	<0.5	3	61	47	2.44	10
191175		1.62	0.014	<0.5	8.50	127	340	0.6	<2	1.28	<0.5	14	63	52	3.70	20
191176		1.56	0.010	<0.5	5.94	89	300	0.5	<2	3.08	<0.5	8	63	30	2.43	20
191177		1.12	0.002	<0.5	4.90	24	390	0.5	<2	3.09	<0.5	8	30	40	2.37	10
191178		1.60	0.006	<0.5	8.67	24	200	0.8	<2	3.96	<0.5	19	19	74	4.35	20
191179		1.78	0.014	<0.5	7.97	427	90	0.7	<2	6.70	<0.5	14	58	45	3.65	20
191180		1.26	3.34	13.3	6.33	312	80	0.6	190	5.31	<0.5	199	48	5300	5.08	10
191181		1.38	0.041	<0.5	7.51	843	150	0.7	2	2.90	<0.5	15	67	35	3.80	20
191182		1.34	0.005	<0.5	8.55	116	200	0.7	<2	3.67	<0.5	15	36	63	4.84	20
191183		1.42	0.222	0.6	2.71	888	130	<0.5	<2	0.17	<0.5	4	19	17	2.69	10
191184		1.60	0.306	<0.5	2.23	1340	220	<0.5	<2	0.32	1.3	3	12	25	1.61	<10
191185		1.20	<0.001	<0.5	6.22	27	40	0.6	2	7.40	<0.5	8	78	4	3.06	20
191186		1.12	0.003	<0.5	8.28	49	410	0.7	<2	5.37	<0.5	13	201	22	5.18	20
191187		1.46	<0.001	<0.5	8.06	12	880	0.9	<2	3.55	0.6	7	52	46	4.20	20
191188		1.18	1.330	3.9	1.44	2430	70	<0.5	<2	0.22	2.0	2	19	87	0.73	<10
191189		1.40	0.077	0.6	4.34	288	100	<0.5	<2	0.08	0.7	3	25	24	0.90	10





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Page: 2 - B  
 Total # Pages: 3 (A - C)  
 Finalized Date: 30- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11144271**

Sample Description	Method Analyte Units LOR	ME- ICP61 K % 0.01	ME- ICP61 La ppm 10	ME- ICP61 Mg % 0.01	ME- ICP61 Mn ppm 5	ME- ICP61 Mo ppm 1	ME- ICP61 Na % 0.01	ME- ICP61 Ni ppm 1	ME- ICP61 P ppm 10	ME- ICP61 Pb ppm 2	ME- ICP61 S % 0.01	ME- ICP61 Sb ppm 5	ME- ICP61 Sc ppm 1	ME- ICP61 Sr ppm 1	ME- ICP61 Th ppm 20	ME- ICP61 Ti % 0.01
191150		0.99	10	0.22	434	1	0.06	29	490	16	0.04	10	6	409	<20	0.30
191151		0.23	<10	0.06	114	1	0.02	13	430	4	0.14	31	3	505	<20	0.10
191152		0.41	10	0.37	349	2	0.04	19	410	7	0.04	12	5	421	<20	0.25
191153		0.17	10	1.24	461	<1	0.03	22	630	9	0.03	15	6	727	<20	0.23
191154		0.30	10	3.15	853	<1	0.17	5	430	6	0.08	6	6	437	<20	0.22
191155		0.08	10	0.77	422	<1	0.03	5	560	5	0.01	6	6	688	<20	0.27
191156		0.08	10	0.53	452	<1	0.02	7	820	7	0.03	9	7	774	<20	0.33
191157		0.12	<10	0.77	297	<1	0.04	5	290	8	0.03	8	3	418	<20	0.12
191158		0.68	10	2.15	802	<1	1.65	4	740	6	0.13	7	8	509	<20	0.33
191159		1.84	20	0.40	333	<1	3.44	5	1010	3	0.40	<5	14	202	<20	0.38
191160		0.78	20	0.24	341	<1	4.33	<1	390	3	0.06	<5	8	182	<20	0.31
191161		1.10	10	2.15	811	<1	2.44	33	780	13	0.04	17	12	450	<20	0.39
191162		1.72	10	0.14	210	<1	1.94	7	590	13	<0.01	<5	4	416	<20	0.22
191163		1.42	10	1.45	489	<1	0.71	32	800	16	1.52	22	12	285	<20	0.36
191164		0.17	<10	1.91	472	<1	0.03	8	520	4	0.17	51	6	600	<20	0.15
191165		0.16	<10	0.66	233	<1	0.02	6	1560	6	0.38	45	4	1715	<20	0.15
191166		0.19	10	4.69	935	<1	0.33	8	470	5	0.01	12	8	620	<20	0.25
191167		0.30	10	2.56	741	<1	0.04	14	510	10	0.18	32	9	253	<20	0.29
191168		0.17	10	1.68	570	<1	0.02	7	480	6	0.38	20	8	532	<20	0.29
191169		0.10	10	1.54	733	<1	0.01	19	710	7	0.40	33	13	615	<20	0.44
191170		1.66	10	0.14	97	<1	0.04	<1	60	7	0.23	12	1	34	<20	0.07
191171		0.08	10	1.08	453	<1	0.02	8	500	7	0.17	19	6	329	<20	0.20
191172		0.16	10	1.80	793	<1	0.02	20	740	5	0.20	22	12	568	<20	0.43
191173		0.15	<10	0.49	570	<1	0.03	18	830	6	0.05	15	9	524	<20	0.40
191174		1.03	10	0.46	112	<1	0.30	4	280	42	0.48	>10000	4	133	<20	0.15
191175		0.89	10	0.26	764	<1	0.25	30	800	7	0.03	168	9	375	<20	0.40
191176		0.74	10	0.32	499	<1	0.06	23	530	11	<0.01	67	5	583	<20	0.32
191177		0.39	10	0.89	395	<1	0.04	12	850	7	0.10	33	6	840	<20	0.22
191178		0.07	10	1.48	795	<1	0.02	9	970	7	0.17	20	14	719	<20	0.60
191179		0.08	10	2.40	1060	<1	0.01	27	770	8	0.06	71	13	597	<20	0.44
191180		0.48	10	1.83	795	<1	0.02	64	620	18	1.72	128	10	587	<20	0.33
191181		0.36	10	0.94	729	<1	0.02	30	820	8	0.10	58	12	617	<20	0.44
191182		0.08	10	1.26	821	<1	0.01	18	1060	9	0.08	14	11	1340	<20	0.48
191183		0.24	<10	0.07	101	<1	0.02	3	230	10	0.27	74	2	266	<20	0.14
191184		0.26	<10	0.12	206	<1	0.02	1	570	69	0.15	78	3	708	<20	0.11
191185		0.01	<10	0.37	725	<1	0.01	22	730	<2	<0.01	20	11	117	<20	0.37
191186		0.78	10	3.51	1395	<1	2.17	65	920	<2	0.35	9	18	537	<20	0.45
191187		0.80	10	0.91	951	17	1.89	25	760	9	0.72	7	23	315	<20	0.41
191188		0.28	<10	0.03	34	<1	0.02	7	100	670	4.38	>10000	1	78	<20	0.03
191189		0.31	10	0.04	31	<1	0.02	4	270	16	0.29	6080	2	156	<20	0.20



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Page: 2 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 30- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11144271**

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
191150		<10	<10	80	10	78
191151		<10	<10	25	10	21
191152		<10	<10	61	10	58
191153		<10	<10	61	10	58
191154		<10	<10	76	10	43
191155		<10	<10	77	<10	46
191156		<10	<10	95	<10	53
191157		<10	<10	40	<10	54
191158		<10	<10	104	<10	62
191159		<10	<10	99	<10	32
191160		<10	<10	54	<10	31
191161		<10	<10	136	<10	162
191162		<10	<10	54	<10	47
191163		<10	<10	133	<10	68
191164		<10	<10	60	10	41
191165		<10	<10	50	10	25
191166		<10	<10	87	10	50
191167		<10	<10	96	60	58
191168		<10	<10	97	20	35
191169		<10	<10	143	20	53
191170		<10	<10	4	<10	26
191171		<10	<10	68	20	32
191172		<10	<10	136	30	62
191173		<10	<10	124	30	67
191174		<10	<10	51	<10	22
191175		<10	<10	113	30	75
191176		<10	<10	81	30	71
191177		<10	<10	65	<10	53
191178		<10	<10	198	40	89
191179		<10	<10	146	100	136
191180		<10	<10	110	10	110
191181		<10	<10	141	60	132
191182		<10	<10	146	40	77
191183		<10	<10	41	10	40
191184		<10	<10	32	10	188
191185		<10	<10	132	50	68
191186		<10	<10	162	<10	147
191187		<10	<10	268	<10	165
191188		<10	<10	12	<10	59
191189		<10	<10	46	20	58



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Page: 3 - A  
 Total # Pages: 3 (A - C)  
 Finalized Date: 30- AUG- 2011  
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Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11144271**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %	ME- ICP61 Ga ppm
		0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
191190		1.26	1.540	1.7	2.93	2570	450	0.5	7	0.08	<0.5	4	38	47	2.47	10
191191		1.22	0.244	28.0	0.38	730	20	<0.5	<2	0.67	6.1	2	10	209	0.54	<10
191192		1.38	0.007	<0.5	8.30	24	760	0.7	<2	2.65	0.8	11	34	47	3.81	20
191193		1.36	0.813	0.7	2.55	5810	160	<0.5	2	0.03	<0.5	2	27	16	1.66	10
191194		1.18	1.130	0.8	2.89	8910	230	<0.5	<2	0.08	<0.5	2	25	61	2.02	<10
191195		0.74	0.005	<0.5	5.56	60	330	0.7	<2	17.4	0.7	5	19	17	1.77	10



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Page: 3 - B  
 Total # Pages: 3 (A - C)  
 Finalized Date: 30- AUG- 2011  
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**CERTIFICATE OF ANALYSIS VA11144271**

Sample Description	Method Analyte Units LOR	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	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
191190		1.10	10	0.11	56	<1	0.03	7	210	32	0.87	5810	3	89	<20	0.12
191191		0.09	<10	0.11	1030	<1	0.01	6	40	777	3.23	>10000	<1	51	<20	0.01
191192		0.73	10	0.48	507	1	2.37	15	290	8	0.70	142	25	281	<20	0.58
191193		0.80	<10	0.07	39	4	0.02	3	150	5	0.75	794	7	26	<20	0.14
191194		0.87	<10	0.07	38	3	0.05	2	160	4	0.83	216	8	26	<20	0.16
191195		0.49	10	0.19	1935	1	0.11	16	390	6	0.03	39	18	34	<20	0.27



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Page: 3 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 30- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11144271**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Tl	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
191190		<10	<10	38	<10	23
191191		<10	<10	4	<10	339
191192		<10	<10	184	<10	193
191193		<10	<10	59	<10	20
191194		<10	<10	54	<10	21
191195		<10	<10	96	10	115



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Page: 1  
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**CERTIFICATE VA11171103**

Project: Eldorado  
 P.O. No.: ELD- 2011- 013r  
 This report is for 14 Rock samples submitted to our lab in Vancouver, BC, Canada on 27- AUG- 2011.  
 The following have access to data associated with this certificate:

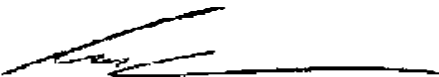
ELEANOR BLACK TWILA SKINNER	MATT ECKFELDT ARNAND VAN HEERDEN	ROSS SHERLOCK
--------------------------------	-------------------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: GFE EXPLORATION CORPORATION  
 ATTN: ELEANOR BLACK  
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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:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 2 (A - C)  
 Finalized Date: 8- OCT- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11171103**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	Au- GRA21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %
191451		1.06	0.022	0.05	<0.5	0.11	135	20	<0.5	<2	7.56	<0.5	26	682	3	2.38
191452		1.34	0.007		0.5	7.81	32	470	0.8	2	1.64	<0.5	15	78	26	3.56
191453		1.08	0.003		1.2	5.38	47	80	1.4	<2	24.2	1.2	9	61	11	2.84
191454		0.88	0.004		<0.5	0.47	24	50	<0.5	<2	2.69	<0.5	33	1095	4	3.31
191455		1.56	0.001		<0.5	0.33	36	360	<0.5	<2	0.70	<0.5	44	1370	7	3.43
202751		2.04	8.61		6.8	2.37	>10000	150	<0.5	35	0.56	2.8	11	32	152	15.95
202752		1.26	>10.0	41.2	25.8	0.84	>10000	140	<0.5	111	0.02	1.0	125	9	210	21.7
202753		2.20	>10.0	14.50	5.2	3.12	>10000	360	<0.5	12	0.31	9.8	5	20	142	17.75
202754		1.30	0.088		0.6	7.25	1590	350	0.7	<2	5.08	<0.5	11	20	14	3.87
202755		1.30	0.362		0.6	0.45	3500	150	<0.5	<2	0.93	<0.5	8	26	51	1.09
202756		1.30	0.120		0.5	5.46	978	690	<0.5	2	4.63	<0.5	13	31	37	3.37
202757		1.28	0.010		<0.5	6.21	165	590	0.9	<2	3.39	<0.5	39	241	70	5.44
202801		1.14	0.012		<0.5	0.18	73	20	<0.5	<2	3.23	<0.5	53	1210	6	3.18
202802		1.56	0.018		<0.5	0.17	122	20	<0.5	<2	3.58	<0.5	54	927	1	2.96



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Page: 2 - B  
 Total # Pages: 2 (A - C)  
 Finalized Date: 8- OCT- 2011  
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Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11171103**

Sample Description	Method Analyte Units LOR	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	
		Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
191451	10	<10	0.01	<10	9.00	485	<1	0.01	478	10	4	0.09	10	3	322	<20
191452	20	20	1.13	10	1.90	754	3	3.21	40	860	6	0.11	7	10	587	<20
191453	10	10	0.15	10	1.87	2710	2	0.29	19	240	37	0.08	<5	7	299	<20
191454	<10	<10	0.02	<10	12.55	572	<1	0.01	604	50	2	0.03	9	4	433	<20
191455	<10	<10	0.06	<10	15.55	444	1	0.02	869	10	<2	0.02	9	4	100	<20
202751	10	10	0.67	<10	0.30	144	3	0.10	9	200	144	6.90	360	3	79	<20
202752	10	10	0.32	<10	0.07	23	3	0.02	3	210	289	7.85	899	3	7	<20
202753	10	10	0.75	<10	0.25	151	3	0.09	4	1130	564	1.12	684	15	39	<20
202754	20	20	0.62	<10	1.17	621	3	2.98	9	900	10	0.05	7	5	445	<20
202755	<10	<10	0.07	<10	0.08	739	3	0.10	40	100	9	0.12	13	2	54	<20
202756	10	10	0.38	10	2.13	574	2	0.30	20	890	12	0.35	6	8	581	<20
202757	20	20	0.66	10	2.65	670	1	2.22	201	1330	<2	0.29	<5	16	128	<20
202801	<10	<10	0.01	<10	9.29	711	<1	0.02	1060	10	<2	0.12	12	4	60	<20
202802	<10	<10	0.01	<10	13.55	551	<1	0.01	1185	20	2	0.03	24	2	84	<20





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Page: 2 - C  
 Total # Pages: 2 (A - C)  
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Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11171103**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Ti	Tl	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
191451		<0.01	<10	<10	9	<10	13
191452		0.38	<10	10	111	<10	41
191453		0.20	<10	<10	38	<10	204
191454		0.01	<10	<10	21	<10	37
191455		0.01	<10	<10	18	<10	22
202751		0.09	<10	<10	35	<10	192
202752		0.04	<10	<10	14	<10	52
202753		0.13	<10	<10	66	<10	640
202754		0.34	<10	10	86	<10	60
202755		0.02	<10	<10	18	<10	10
202756		0.31	<10	<10	90	<10	68
202757		1.00	<10	10	156	<10	71
202801		<0.01	<10	<10	14	<10	42
202802		<0.01	<10	<10	7	<10	17



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Page: 1  
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**CERTIFICATE VA11168856**

Project: Eldorado  
 P.O. No.: ELD- 2011- 010r  
 This report is for 44 Rock samples submitted to our lab in Vancouver, BC, Canada on 19- AUG- 2011.

The following have access to data associated with this certificate:

ELEANOR BLACK  
 TWILA SKINNER

MATT ECKFELDT  
 ARMAND VAN HEERDEN

ROSS SHERLOCK

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: GFE EXPLORATION CORPORATION  
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Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 3 (A - C)  
 Finalized Date: 28- SEP- 2011  
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**CERTIFICATE OF ANALYSIS VAI1168856**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	Au- GRA21	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.05	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01
191286		1.46	0.004		<0.5	8.19	21	540	0.7	<2	2.08	0.7	13	30	61	4.63
191287		1.84	0.015		0.6	6.96	86	80	0.6	<2	4.71	1.8	31	27	154	9.32
191290		1.72	0.002		<0.5	4.24	8	210	0.5	<2	0.76	<0.5	17	236	27	4.72
191291		1.86	0.002		<0.5	3.14	23	250	0.5	<2	7.91	<0.5	9	69	20	3.83
191292		2.54	0.002		<0.5	2.69	25	250	0.5	<2	6.81	<0.5	9	62	19	3.37
191293		1.52	0.002		<0.5	4.73	45	390	0.5	<2	4.33	<0.5	13	108	31	4.61
191295		1.92	0.002		<0.5	7.33	13	220	1.0	<2	2.63	<0.5	10	59	28	2.91
191296		1.06	0.008		<0.5	2.72	267	190	0.7	<2	0.29	<0.5	7	42	29	7.55
191297		1.88	0.005		<0.5	6.43	50	410	0.5	<2	5.61	0.6	8	47	42	2.99
191298		1.64	0.033		<0.5	4.67	324	170	0.7	<2	8.53	<0.5	8	45	20	4.10
191352		1.50	0.007		<0.5	4.27	64	430	<0.5	<2	3.10	<0.5	7	38	30	2.95
191353		1.88	0.003		<0.5	6.25	30	450	0.6	<2	5.85	<0.5	10	51	11	4.25
191354		1.52	0.006		0.7	9.28	24	750	1.0	<2	2.35	0.6	4	20	52	5.14
191355		1.80	0.098		<0.5	8.60	91	280	0.8	<2	0.29	<0.5	6	26	72	5.19
191356		1.80	0.013		0.5	9.12	56	780	0.8	<2	2.28	<0.5	9	38	85	6.90
191357		1.84	0.009		<0.5	4.95	27	120	0.5	<2	12.20	<0.5	3	9	19	5.26
191358		1.80	0.028		<0.5	8.67	36	60	0.6	<2	8.03	<0.5	13	22	169	7.43
191359		2.84	0.006		<0.5	9.37	24	470	0.8	<2	2.00	1.2	14	33	55	5.70
191360		1.50	>10.0	59.6	<0.5	60.4	0.32	>10000	40	<0.5	141	0.06	2.0	<1	540	27.2
191361		1.42	>10.0	80.3	>100	0.83	>10000	60	<0.5	<2	0.09	116.5	<1	<1	3540	12.25
191362		1.96	>10.0	43.9	>100	0.21	>10000	10	<0.5	<2	1.94	222	2	1	1820	15.90
191363		2.62	1.370		2.6	3.18	8230	590	<0.5	2	15.4	<0.5	1	2	35	4.03
191364		1.34	0.015		<0.5	6.03	70	530	0.8	<2	5.24	<0.5	9	42	65	3.21
191365		1.62	0.978		10.6	7.11	1490	660	0.7	<2	2.55	1.9	10	55	61	2.79
191366		1.66	0.485		7.4	4.41	1755	1260	<0.5	2	0.08	4.4	2	9	81	0.96
191367		1.56	0.742		<0.5	2.71	2350	230	0.5	<2	3.54	<0.5	6	27	32	2.71
191368		1.14	0.038		<0.5	4.50	69	370	0.6	<2	3.49	<0.5	9	42	150	2.88
191369		1.30	0.035		<0.5	4.50	68	430	0.6	<2	4.99	<0.5	8	22	51	3.05
191370		1.52	0.013		<0.5	4.64	45	780	0.7	<2	2.46	<0.5	7	12	26	2.14
191371		1.58	0.010		<0.5	6.90	41	440	0.6	<2	4.79	<0.5	8	46	25	3.54
191372		1.54	0.031		2.7	3.93	12	200	<0.5	<2	1.52	<0.5	22	21	261	14.80
191373		0.88	0.666		0.5	6.21	2600	400	0.5	<2	1.13	<0.5	1	35	13	1.74
191374		1.26	0.005		<0.5	6.51	17	310	0.8	<2	0.29	<0.5	17	95	38	4.46
191375		1.42	0.003		<0.5	4.86	19	490	0.6	<2	0.12	<0.5	12	67	35	3.21
191376		1.48	0.018		<0.5	4.55	33	210	0.5	<2	0.15	<0.5	12	110	31	3.48
191377		1.94	0.003		<0.5	5.40	9	300	0.8	<2	2.09	<0.5	13	85	34	4.20
191378		1.68	0.004		<0.5	4.84	26	250	0.5	<2	0.13	<0.5	12	76	31	3.71
191398		1.74	0.002		<0.5	6.55	35	450	0.9	<2	4.87	0.7	10	57	66	3.36
191400		2.16	0.004		<0.5	5.89	25	280	0.7	<2	1.46	<0.5	14	60	14	3.29
191404		1.62	0.003		<0.5	2.89	1190	390	0.5	<2	9.56	<0.5	8	66	23	3.92



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Page: 2 - B  
 Total # Pages: 3 (A - C)  
 Finalized Date: 28- SEP- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11168856**

Sample Description	Method Analyte Units LOR	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	
		Ga ppm 10	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sc ppm 1	Sr ppm 1	Th ppm 20
191286		20	0.82	10	0.61	634	4	1.35	14	320	4	0.57	11	26	169	<20
191287		20	0.14	10	0.49	1090	6	0.32	29	2200	5	4.10	10	20	114	<20
191290		10	0.42	10	1.26	1090	<1	0.86	97	530	<2	0.01	<5	14	65	<20
191291		10	0.33	10	2.56	1100	<1	0.33	46	360	<2	0.01	8	11	326	<20
191292		10	0.30	10	2.98	910	1	0.24	46	340	4	0.07	19	9	347	<20
191293		10	0.39	10	1.54	885	5	0.03	64	560	2	0.12	13	13	676	<20
191295		20	1.94	10	0.93	472	2	2.66	27	660	11	0.02	8	8	349	<20
191296		10	0.31	10	0.18	1180	1	0.06	38	450	3	<0.01	10	17	44	<20
191297		20	1.19	20	1.49	950	2	0.07	21	510	25	<0.01	7	8	332	<20
191298		10	0.15	10	3.64	836	1	0.04	23	410	9	0.01	13	9	344	<20
191352		10	0.24	10	1.15	483	2	0.03	18	860	6	0.02	6	7	886	<20
191353		20	0.94	20	2.34	1040	1	1.31	23	560	7	0.01	<5	10	319	<20
191354		20	1.22	20	0.90	507	22	2.23	4	1880	4	0.74	25	23	318	<20
191355		20	0.39	10	0.12	204	4	0.03	7	560	4	0.72	20	27	92	<20
191356		20	1.28	10	1.08	575	3	1.86	15	340	2	0.71	30	30	196	<20
191357		10	0.16	10	1.24	1070	1	0.04	1	220	<2	0.05	<5	20	201	<20
191358		20	0.03	20	1.10	543	5	0.36	7	2590	<2	2.64	7	25	191	<20
191359		20	0.93	10	0.98	783	3	1.38	23	370	8	0.90	<5	26	170	<20
191360		<10	0.21	<10	0.02	15	<1	0.01	<1	30	1890	>10.0	1515	2	16	<20
191361		<10	0.32	<10	0.03	296	1	0.01	<1	200	>10000	7.77	>10000	5	34	<20
191362		<10	0.05	10	0.40	1100	<1	0.01	<1	40	>10000	>10.0	>10000	2	20	<20
191363		<10	0.70	10	1.52	1315	2	0.12	3	370	147	1.47	151	4	399	<20
191364		10	1.63	20	1.94	670	3	1.95	22	470	46	0.04	50	7	497	<20
191365		20	1.60	20	0.92	452	3	0.50	27	560	1955	0.12	2190	7	559	<20
191366		10	3.62	10	0.03	81	1	0.30	2	60	1750	0.23	2050	2	198	<20
191367		10	0.46	10	0.50	597	1	0.02	15	240	22	0.30	84	5	280	<20
191368		10	0.54	10	0.68	385	5	0.03	20	410	12	0.42	28	6	432	<20
191369		10	0.34	10	1.56	614	2	0.05	10	710	15	0.04	16	8	540	<20
191370		10	0.08	10	0.83	395	1	0.03	8	1480	8	0.03	11	7	1585	<20
191371		20	1.06	20	1.54	600	1	0.11	23	470	10	0.03	10	8	582	<20
191372		10	0.49	10	0.84	825	4	0.02	29	7490	10	7.83	17	22	18	<20
191373		10	1.76	20	0.38	105	5	0.43	3	750	4	0.19	61	18	79	<20
191374		10	0.80	20	0.22	509	1	1.47	68	730	3	0.02	19	17	213	<20
191375		10	0.58	10	0.17	447	1	0.82	44	680	6	0.07	18	13	254	<20
191376		10	0.37	10	0.13	660	1	0.07	48	520	3	0.18	40	14	164	<20
191377		10	0.70	20	1.06	769	<1	1.61	61	680	5	0.02	<5	16	125	<20
191378		10	0.41	10	0.13	648	1	0.03	50	660	2	0.01	31	14	190	<20
191398		10	1.20	20	0.31	846	1	1.06	19	610	18	<0.01	6	11	266	<20
191400		10	0.56	20	0.11	371	<1	1.77	21	290	10	0.03	<5	12	303	<20
191404		10	0.44	10	4.65	1110	<1	0.06	36	330	2	<0.01	13	11	343	<20



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Page: 2 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 28- SEP- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11168856**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Pb- OG62	Ag- OG62	Zn- OG62
		Ti % 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Pb % 0.001	Ag ppm 1	Zn % 0.001
191286		0.48	<10	<10	200	<10	154			
191287		0.41	<10	<10	140	<10	329			
191290		0.36	<10	<10	100	<10	73			
191291		0.21	<10	<10	72	10	50			
191292		0.17	<10	<10	66	10	46			
191293		0.31	<10	<10	97	20	67			
191295		0.33	<10	<10	94	<10	57			
191296		0.22	<10	<10	103	<10	51			
191297		0.27	<10	<10	74	10	150			
191298		0.22	<10	<10	84	<10	44			
191352		0.20	<10	<10	60	<10	49			
191353		0.32	<10	<10	98	<10	82			
191354		0.46	<10	<10	134	<10	108			
191355		0.52	<10	<10	194	<10	29			
191356		0.52	<10	<10	246	<10	79			
191357		0.28	<10	<10	97	10	30			
191358		0.55	<10	<10	152	<10	84			
191359		0.49	<10	<10	187	<10	294			
191360		0.01	<10	<10	6	<10	74			
191361		0.04	<10	<10	15	<10	396	13.65	689	
191362		0.01	<10	<10	4	<10	>10000	7.21	284	1.155
191363		0.07	<10	<10	31	<10	36			
191364		0.23	<10	<10	79	10	68			
191365		0.29	<10	<10	76	<10	77			
191366		0.03	<10	<10	8	<10	206			
191367		0.11	<10	<10	31	10	19			
191368		0.20	<10	<10	56	10	32			
191369		0.21	<10	<10	80	<10	57			
191370		0.25	<10	<10	67	10	36			
191371		0.26	<10	<10	72	20	55			
191372		0.20	<10	<10	103	<10	85			
191373		0.35	<10	<10	154	10	21			
191374		0.45	<10	<10	133	<10	79			
191375		0.32	<10	<10	91	<10	55			
191376		0.35	<10	<10	97	10	60			
191377		0.41	<10	<10	114	<10	70			
191378		0.35	<10	<10	100	<10	64			
191398		0.35	<10	<10	96	<10	135			
191400		0.38	<10	<10	95	<10	70			
191404		0.19	<10	<10	76	10	41			



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Page: 3 - A  
 Total # Pages: 3 (A - C)  
 Finalized Date: 28- SEP- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11168856**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	Au- GRA21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %
		0.02	0.001	0.05	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01
191409		1.40	0.002		<0.5	6.63	20	100	0.5	<2	8.17	<0.5	13	51	32	3.69
191427		0.88	0.002		<0.5	8.92	93	180	0.6	<2	1.92	<0.5	10	3	14	4.26
191112		2.04	0.011		<0.5	6.48	108	290	0.6	<2	0.91	6.1	8	58	59	3.33
207514		1.64	0.151		0.8	8.37	89	120	1.6	<2	4.23	0.5	13	1	70	7.14



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Page: 3 - B  
 Total # Pages: 3 (A - C)  
 Finalized Date: 28- SEP- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11168856**

Sample Description	Method Analyte Units LOR	ME- ICP61 Ga ppm	ME- ICP61 K %	ME- ICP61 La ppm	ME- ICP61 Mg %	ME- ICP61 Mn ppm	ME- ICP61 Mo ppm	ME- ICP61 Na %	ME- ICP61 Ni ppm	ME- ICP61 P ppm	ME- ICP61 Pb ppm	ME- ICP61 S %	ME- ICP61 Sb ppm	ME- ICP61 Sc ppm	ME- ICP61 Sr ppm	ME- ICP61 Th ppm
		10	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20
191409		10	0.10	10	3.24	652	<1	0.54	33	510	4	0.01	17	11	519	<20
191427		20	0.43	10	0.24	777	1	2.28	5	920	5	0.12	6	10	133	<20
191112		10	0.29	20	0.22	416	14	1.84	55	540	14	0.51	19	20	163	<20
207514		20	0.23	80	2.16	1390	1	4.22	3	3140	106	3.23	135	15	291	20



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Page: 3 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 28- SEP- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11168856**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Pb- OG62	Ag- OG62	Zn- OG62
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Pb %	Ag ppm	Zn %
		0.01	10	10	1	10	2	0.001	1	0.001
191409		0.38	<10	<10	124	<10	66			
191427		0.37	<10	<10	108	<10	105			
191112		0.34	<10	<10	449	<10	498			
207514		0.85	<10	<10	30	<10	70			





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Page: 1  
 Finalized Date: 13- SEP- 2011  
 Account: ELGFEC

**CERTIFICATE VA11163893**

Project: Eldorado  
 P.O. No.: ELD- 2011- 007r  
 This report is for 97 Rock samples submitted to our lab in Vancouver, BC, Canada on 8- AUG- 2011.

The following have access to data associated with this certificate:

ELEANOR BLACK  
 TWILA SKINNER

MATT ECKFELDT  
 ARNAND VAN HEERDEN

ROSS SHERLOCK

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: GFE EXPLORATION CORPORATION  
 ATTN: ELEANOR BLACK  
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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:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 13- SEP- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VAI1163893**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	AJ- GRA21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %
		0.02	0.001	0.05	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01
191196		1.40	0.002		<0.5	2.98	<5	270	0.5	<2	0.89	<0.5	8	79	21	2.09
191197		1.18	0.002		<0.5	4.24	44	270	0.8	<2	7.52	<0.5	14	221	31	4.58
191198		1.10	<0.001		<0.5	3.43	28	450	0.5	<2	3.34	<0.5	11	109	30	2.85
191199		1.18	0.015		<0.5	5.74	27	240	0.6	<2	5.68	<0.5	7	41	23	3.52
191200		1.60	>10.0	12.20	1.9	2.71	2780	500	<0.5	<2	0.34	<0.5	8	85	29	3.78
191201		1.16	0.007		<0.5	2.82	16	150	<0.5	<2	2.30	<0.5	7	58	39	2.27
191202		1.62	0.140		<0.5	5.36	118	220	0.6	<2	7.80	<0.5	16	52	3	4.23
191203		1.26	0.130		<0.5	1.90	2190	140	0.7	<2	9.38	<0.5	3	19	7	3.37
191204		0.64	0.026		<0.5	1.20	167	110	1.0	<2	19.8	<0.5	2	11	7	5.22
191205		1.46	0.031		<0.5	7.09	196	120	0.5	<2	2.76	<0.5	10	57	64	2.70
191206		1.72	1.135		1.1	5.69	927	70	<0.5	<2	0.23	<0.5	3	57	86	0.83
191207		2.34	0.787		2.4	2.47	2800	230	0.6	<2	0.09	0.9	2	28	20	1.79
191208		1.86	0.665		0.7	6.16	215	230	0.8	<2	0.39	<0.5	19	51	96	2.76
191209		1.72	0.110		<0.5	5.79	169	160	0.5	<2	0.04	<0.5	3	52	10	2.04
191210		1.78	0.027		<0.5	6.43	297	170	0.6	<2	0.19	<0.5	10	58	20	1.58
191211		1.44	0.009		<0.5	7.29	20	510	0.6	<2	2.15	<0.5	10	67	17	2.32
191212		1.74	0.227		<0.5	0.64	19	20	<0.5	<2	1.59	<0.5	3	12	317	1.10
191213		1.76	0.003		<0.5	9.20	9	760	0.9	<2	2.29	<0.5	11	28	61	4.73
191214		1.46	0.034		<0.5	7.70	7	500	0.9	<2	6.23	<0.5	39	271	238	6.91
191215		1.20	0.040		1.0	6.37	395	530	0.7	<2	2.04	2.1	7	57	73	2.25
191216		1.42	0.015		<0.5	1.65	102	120	0.5	<2	0.67	<0.5	5	24	134	1.38
191217		1.54	0.006		<0.5	5.68	69	1030	1.0	<2	2.79	<0.5	3	23	22	1.41
191218		1.52	0.002		<0.5	7.62	27	270	0.6	<2	5.13	<0.5	12	89	13	3.34
191219		1.64	0.050		<0.5	5.13	276	220	0.5	<2	7.14	<0.5	9	64	40	3.18
191220		1.66	0.094		<0.5	5.96	79	290	0.6	<2	8.65	<0.5	13	100	34	3.98
191221		1.54	0.015		<0.5	5.70	186	1100	0.5	<2	4.98	1.4	10	54	46	2.97
191222		1.78	0.016		<0.5	2.35	39	240	0.5	<2	5.19	<0.5	19	423	12	3.88
191223		1.52	0.042		<0.5	3.93	985	310	0.6	<2	9.45	<0.5	7	21	29	4.70
191224		1.78	0.031		<0.5	7.84	40	250	0.5	2	3.94	<0.5	9	47	143	3.58
191225		1.38	0.765		<0.5	3.91	>10000	540	0.5	<2	1.18	<0.5	31	86	257	5.63
191226		1.32	>10.0	10.75	21.5	0.40	>10000	30	<0.5	87	0.03	0.7	39	7	449	19.40
191227		1.48	0.127		<0.5	7.06	248	270	0.8	<2	7.94	<0.5	4	36	46	6.32
191228		1.44	0.413		<0.5	6.03	>10000	310	0.7	2	3.28	<0.5	15	35	171	7.12
191229		1.34	0.826		0.6	6.16	>10000	90	0.7	<2	4.74	<0.5	20	34	14	9.22
191230		1.34	0.011		<0.5	8.45	272	1130	1.3	2	2.33	0.5	7	43	13	3.33
191231		1.12	3.40		<0.5	1.78	>10000	180	<0.5	3	0.46	<0.5	21	30	41	16.90
191232		1.44	2.40		<0.5	4.71	>10000	230	<0.5	2	0.59	<0.5	19	60	35	12.85
191233		1.14	6.77		21.5	3.82	>10000	680	<0.5	78	0.02	5.6	5	13	238	7.93
191234		1.48	0.735		<0.5	7.15	790	210	0.8	<2	2.81	<0.5	13	92	22	2.98
191235		1.42	0.158		<0.5	7.70	1580	490	0.9	2	2.21	<0.5	18	30	12	2.19



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Page: 2 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 13- SEP- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11163893**

Sample Description	Method Analyte Units LOR	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	
		Ga ppm 10	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sc ppm 1	Sr ppm 1	Th ppm 20
191196		10	0.51	10	0.94	390	<1	0.87	40	340	5	0.04	<5	8	91	<20
191197		10	0.27	10	3.28	1500	<1	0.03	119	560	6	0.01	13	15	230	<20
191198		10	0.04	10	1.58	592	1	0.03	52	640	5	<0.01	<5	13	265	<20
191199		10	0.16	10	2.50	911	<1	0.03	24	980	9	<0.01	<5	6	439	<20
191200		10	0.27	<10	0.11	929	<1	0.02	42	550	31	0.01	61	16	292	<20
191201		10	0.54	<10	0.95	435	<1	0.50	35	420	8	0.01	<5	7	150	<20
191202		10	0.61	30	2.55	1100	<1	0.06	32	450	16	0.01	10	6	211	<20
191203		<10	0.65	10	3.44	2490	1	0.04	9	150	7	0.38	31	2	218	<20
191204		<10	0.35	10	2.77	3420	1	0.09	11	100	3	0.01	21	2	161	<20
191205		20	0.46	10	0.80	571	4	0.05	28	530	13	0.51	15	7	99	<20
191206		10	0.25	10	0.05	71	1	0.02	5	90	7	0.32	58	3	27	<20
191207		10	0.70	10	0.10	71	1	0.02	12	150	187	0.13	105	3	151	<20
191208		20	1.60	10	0.23	529	1	0.03	18	460	9	0.23	26	6	243	<20
191209		10	0.25	10	0.03	68	3	0.02	10	480	15	0.02	43	3	553	<20
191210		20	0.14	10	0.05	490	1	0.02	23	480	12	0.01	65	6	347	<20
191211		20	1.26	10	0.81	512	6	0.14	29	650	12	0.04	9	7	480	<20
191212		<10	0.02	<10	0.62	336	1	0.05	16	70	4	0.02	<5	2	61	<20
191213		20	1.03	<10	0.66	508	1	2.05	15	380	9	0.77	<5	26	328	<20
191214		20	1.41	20	4.68	1070	2	1.56	221	1490	6	1.71	<5	23	519	<20
191215		20	1.74	10	0.89	460	2	0.47	23	470	224	0.12	93	7	386	<20
191216		<10	0.44	10	0.25	177	<1	0.19	27	100	<2	0.02	<5	8	56	<20
191217		20	1.67	10	0.77	325	<1	1.62	9	330	7	<0.01	5	3	229	<20
191218		20	0.49	10	1.96	616	<1	0.04	33	700	11	0.01	<5	10	417	<20
191219		10	0.39	10	2.90	1210	<1	0.04	30	570	6	0.05	14	8	508	<20
191220		10	0.31	10	3.70	958	<1	0.04	43	710	8	0.03	16	11	793	<20
191221		10	0.38	10	1.87	653	<1	0.05	21	560	6	0.16	21	9	520	<20
191222		10	0.50	10	5.99	636	<1	0.11	303	280	3	0.03	5	8	337	<20
191223		10	0.26	20	2.85	600	2	0.05	14	280	6	0.10	<5	11	261	<20
191224		10	0.21	<10	0.35	170	<1	3.03	63	450	3	2.07	5	8	158	<20
191225		10	0.53	20	0.34	207	<1	1.08	85	760	<2	1.86	14	12	75	<20
191226		<10	0.02	10	0.02	56	<1	0.02	30	120	279	8.74	305	2	3	<20
191227		20	0.46	20	0.63	1610	<1	1.72	18	830	2	0.28	7	25	130	<20
191228		10	0.73	20	0.35	197	<1	1.54	17	720	3	2.40	39	23	139	<20
191229		10	0.15	20	0.32	378	1	1.45	27	1020	11	4.13	96	23	118	<20
191230		20	1.76	20	0.51	315	<1	2.90	16	530	3	0.06	<5	21	138	<20
191231		<10	0.16	10	0.07	66	<1	0.49	8	450	<2	2.92	226	6	46	<20
191232		10	0.30	20	0.21	60	<1	2.47	19	280	<2	6.42	188	9	71	<20
191233		10	1.62	10	0.16	37	<1	0.05	5	640	2690	1.64	1405	3	23	<20
191234		20	0.48	20	0.81	550	<1	2.74	54	830	<2	0.02	<5	12	275	<20
191235		20	1.21	20	1.49	255	1	2.74	16	900	14	0.20	11	8	462	<20



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Page: 2 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 13- SEP- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VAI1163893**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Pb- OG62	Ag- OG62	Zn- OG62
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Pb % 0.001	Ag ppm 1	Zn % 0.001
191196		0.23	<10	<10	63	<10	53			
191197		0.43	<10	<10	112	<10	60			
191198		0.29	<10	<10	99	<10	61			
191199		0.24	<10	<10	64	<10	82			
191200		0.23	<10	<10	96	<10	43			
191201		0.20	<10	<10	57	<10	37			
191202		0.25	<10	<10	71	<10	39			
191203		0.07	<10	<10	23	<10	41			
191204		0.04	<10	<10	16	<10	38			
191205		0.29	<10	<10	77	10	65			
191206		0.24	<10	<10	59	30	10			
191207		0.09	<10	<10	27	<10	239			
191208		0.26	<10	<10	73	20	75			
191209		0.24	<10	<10	61	30	38			
191210		0.27	<10	<10	69	30	57			
191211		0.31	<10	<10	85	10	73			
191212		0.03	<10	<10	19	<10	30			
191213		0.53	<10	<10	175	<10	88			
191214		0.84	<10	<10	192	<10	109			
191215		0.25	<10	<10	72	<10	310			
191216		0.08	<10	<10	20	<10	19			
191217		0.16	<10	<10	45	<10	23			
191218		0.39	<10	<10	113	50	64			
191219		0.29	<10	<10	88	30	67			
191220		0.33	<10	<10	108	20	72			
191221		0.30	<10	<10	101	10	310			
191222		0.12	<10	<10	54	<10	27			
191223		0.18	<10	<10	67	<10	23			
191224		0.34	<10	10	68	<10	30			
191225		0.22	<10	<10	90	10	23			
191226		0.01	10	<10	13	<10	22			
191227		0.32	<10	<10	228	<10	67			
191228		0.30	<10	<10	207	<10	22			
191229		0.29	<10	<10	161	<10	23			
191230		0.42	<10	<10	163	<10	35			
191231		0.08	<10	<10	41	<10	13			
191232		0.18	<10	<10	52	10	7			
191233		0.06	<10	<10	20	<10	172			
191234		0.39	<10	<10	121	<10	57			
191235		0.33	<10	<10	88	10	32			



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Page: 3 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 13- SEP- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11163893**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	Au- GRA21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %
191236		1.56	0.011		<0.5	0.16	223	20	<0.5	4	2.03	<0.5	37	1290	9	2.89
191237		1.66	0.005		<0.5	8.30	80	780	1.1	3	2.17	<0.5	4	12	9	2.38
191238		1.82	>10.0	32.2	15.8	0.35	>10000	10	<0.5	56	0.11	<0.5	52	882	17	15.60
191239		1.44	0.077		<0.5	6.72	694	120	0.5	<2	6.64	<0.5	13	34	79	3.93
191240		1.48	0.042		<0.5	7.59	369	180	0.6	<2	4.12	<0.5	13	27	26	3.66
191241		1.28	0.006		<0.5	5.95	68	440	0.7	2	8.42	<0.5	8	15	16	2.79
191242		1.32	0.009		<0.5	7.52	79	180	0.7	2	5.89	<0.5	12	34	26	3.68
191243		1.86	0.026		<0.5	5.97	801	160	0.7	<2	8.06	<0.5	16	22	19	2.98
191244		1.64	0.005		<0.5	5.93	41	370	0.5	<2	3.01	<0.5	13	83	9	3.36
191245		1.32	0.012		<0.5	8.42	51	100	0.6	2	4.70	<0.5	20	76	57	4.40
191246		1.26	0.006		<0.5	7.98	38	140	0.6	<2	5.39	<0.5	16	72	55	3.79
191247		1.44	0.028		<0.5	6.79	22	170	0.6	<2	7.06	<0.5	14	53	67	4.06
191248		1.56	0.009		<0.5	4.25	79	220	<0.5	2	4.70	<0.5	9	38	34	2.81
191249		1.58	0.008		<0.5	5.65	19	130	0.5	<2	5.48	<0.5	12	51	33	3.27
191250		1.48	0.169		<0.5	7.45	855	130	0.7	<2	4.73	<0.5	23	51	41	4.30
191251		1.06	0.005		<0.5	7.82	47	600	0.7	<2	0.96	<0.5	8	46	81	2.47
191252		1.54	0.021		<0.5	4.23	68	130	<0.5	<2	3.91	<0.5	5	31	182	2.16
191253		1.26	0.048		0.7	6.01	103	210	0.5	<2	2.63	<0.5	7	34	197	1.86
191254		1.30	0.047		<0.5	6.54	296	140	0.6	2	2.48	0.6	7	36	119	2.01
191255		1.64	0.289		<0.5	5.65	1500	150	0.5	2	2.00	<0.5	13	30	72	4.08
191256		1.36	0.011		<0.5	5.55	151	150	<0.5	<2	4.29	<0.5	11	27	53	3.30
191257		1.40	0.103		<0.5	4.13	48	270	0.5	<2	2.51	<0.5	10	49	44	2.33
191258		1.46	0.043		<0.5	4.40	822	160	<0.5	2	0.27	<0.5	5	24	91	1.99
191259		1.62	0.082		<0.5	4.50	54	230	0.5	<2	3.31	<0.5	12	31	43	2.82
191260		1.80	0.019		<0.5	7.38	27	4550	0.8	<2	2.31	<0.5	7	54	46	2.45
191261		1.62	0.080		<0.5	6.66	13	180	0.6	2	5.17	<0.5	13	52	42	4.04
191262		1.32	0.006		0.6	8.52	61	820	0.8	<2	0.48	<0.5	6	28	34	5.14
191263		1.58	0.013		0.5	8.03	43	570	0.6	2	1.76	<0.5	12	42	78	6.02
191264		1.16	0.019		<0.5	7.95	227	270	0.6	<2	2.88	<0.5	13	40	56	3.70
191265		1.82	0.017		<0.5	8.46	240	130	0.8	<2	3.33	<0.5	5	45	25	3.37
191266		1.50	0.030		0.5	7.31	385	120	0.8	<2	2.48	<0.5	6	37	27	3.35
191267		1.52	0.046		0.5	8.09	609	100	0.7	<2	3.38	<0.5	10	52	45	4.30
191268		1.68	0.007		0.7	8.82	51	830	0.8	6	1.44	<0.5	10	26	51	4.42
191269		1.66	0.005		<0.5	8.55	13	100	0.6	6	10.50	1.6	2	10	6	7.50
191270		1.50	0.013		0.6	8.36	50	450	0.7	6	2.94	<0.5	8	32	73	4.52
191271		2.26	0.032		<0.5	7.38	55	110	0.6	3	2.92	<0.5	6	20	46	2.46
191272		1.74	>10.0	18.80	>100	5.47	>10000	350	0.5	8	0.19	18.6	4	21	3310	10.80
191273		1.26	0.024		0.7	7.57	122	1100	0.8	<2	1.45	<0.5	8	43	50	4.20
191274		0.98	0.052		1.0	5.34	254	470	<0.5	<2	1.65	<0.5	4	15	16	2.14
191275		1.22	0.076		1.5	5.49	29	320	<0.5	3	2.81	<0.5	12	23	281	13.00



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Page: 3 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 13- SEP- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VAI1163893**

Sample Description	Method Analyte Units LOR	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	
		Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
191236		<10	0.01	10	8.32	502	<1	0.03	638	20	<2	0.10	5	4	82	<20
191237		20	1.50	20	0.58	286	<1	3.16	2	870	<2	0.42	<5	4	592	<20
191238		<10	0.02	10	7.04	343	<1	0.03	282	30	149	3.39	303	3	19	<20
191239		20	0.12	20	2.96	567	<1	0.02	14	770	3	0.21	14	10	666	<20
191240		20	0.24	20	1.62	612	1	0.05	12	850	3	0.06	<5	10	671	<20
191241		10	0.10	20	3.65	536	<1	0.03	6	700	4	0.07	11	8	778	<20
191242		20	0.09	20	2.15	655	<1	0.02	12	830	12	0.08	9	11	715	<20
191243		10	0.11	20	3.62	523	1	0.03	12	570	8	0.11	6	9	673	<20
191244		10	0.11	20	1.66	597	<1	0.04	28	750	4	0.01	<5	12	706	<20
191245		20	0.09	20	1.87	650	<1	0.04	33	980	6	0.10	13	14	503	<20
191246		20	0.24	20	2.25	590	<1	0.03	32	860	3	0.15	18	13	500	<20
191247		20	0.10	20	3.11	669	<1	0.03	27	570	5	0.14	19	11	746	<20
191248		10	0.08	20	2.06	454	<1	0.03	19	640	2	0.05	<5	8	1090	<20
191249		10	0.05	20	2.30	544	<1	0.02	22	610	<2	0.05	25	10	408	<20
191250		20	0.60	20	1.93	840	1	0.11	27	820	11	0.28	15	15	447	<20
191251		20	1.89	10	0.18	252	6	0.10	16	490	14	0.16	8	9	216	<20
191252		10	0.24	10	1.46	434	7	0.02	7	340	7	0.30	44	6	404	<20
191253		10	0.33	10	0.89	321	7	0.02	12	560	11	0.22	43	7	644	<20
191254		10	0.27	30	0.89	388	26	0.02	15	670	10	0.16	48	7	850	<20
191255		10	0.16	20	0.78	374	3	0.01	14	530	44	0.30	119	10	404	<20
191256		10	0.06	10	1.47	686	5	0.02	15	600	8	0.02	31	14	310	<20
191257		<10	0.06	10	0.89	368	4	0.02	19	410	7	0.20	55	9	407	<20
191258		10	0.14	20	0.09	114	1	0.02	8	450	10	0.07	57	4	356	<20
191259		10	0.07	10	1.19	429	4	0.02	17	420	5	0.53	30	9	480	<20
191260		20	1.45	10	0.90	177	5	0.63	21	560	9	1.29	10	10	442	<20
191261		10	0.07	10	1.98	729	3	0.02	33	690	11	0.04	16	13	486	<20
191262		20	2.70	10	0.90	598	3	0.37	12	130	8	0.11	13	25	57	<20
191263		20	1.09	<10	1.03	620	5	1.25	19	190	5	1.38	12	24	147	<20
191264		20	0.51	10	0.89	472	4	1.62	22	640	9	0.72	<5	14	274	<20
191265		20	0.29	10	1.16	694	4	1.83	8	920	9	0.52	<5	10	329	<20
191266		10	0.37	10	1.17	576	3	1.30	11	790	6	0.44	5	9	243	<20
191267		20	0.17	10	1.13	785	3	1.83	10	870	6	1.08	<5	10	346	<20
191268		20	1.23	10	0.16	589	4	1.60	13	390	3	0.22	6	23	158	<20
191269		10	0.10	20	1.01	3480	<1	0.36	<1	1420	8	0.06	<5	17	118	<20
191270		20	0.89	10	0.88	517	6	1.52	15	640	2	1.49	5	24	205	<20
191271		20	0.13	10	0.56	216	<1	0.03	5	780	6	0.38	13	8	119	<20
191272		10	1.54	20	0.15	190	<1	0.21	3	240	>10000	4.33	>10000	16	51	<20
191273		20	0.99	10	0.82	487	7	1.74	17	420	50	0.74	33	24	203	<20
191274		10	0.71	10	0.36	341	3	1.42	3	140	44	0.03	42	12	173	<20
191275		10	0.26	20	1.36	1130	<1	0.63	<1	3500	4	1.50	5	48	108	<20



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Page: 3 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 13- SEP- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11163893**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Pb- OG62	Ag- OG62	Zn- OG62
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Pb % 0.001	Ag ppm 1	Zn % 0.001
191236		0.01	<10	<10	12	<10	23			
191237		0.21	<10	<10	27	<10	22			
191238		0.01	<10	<10	10	<10	36			
191239		0.35	<10	<10	111	10	57			
191240		0.40	<10	<10	115	<10	67			
191241		0.29	<10	<10	80	30	55			
191242		0.37	<10	<10	116	30	105			
191243		0.31	<10	<10	90	20	61			
191244		0.33	<10	<10	110	10	67			
191245		0.50	<10	<10	156	30	72			
191246		0.42	<10	<10	132	40	61			
191247		0.35	<10	<10	114	30	59			
191248		0.23	<10	<10	81	10	40			
191249		0.31	<10	<10	100	20	41			
191250		0.43	<10	<10	157	20	81			
191251		0.30	<10	<10	74	10	45			
191252		0.15	<10	<10	42	20	24			
191253		0.22	<10	<10	55	20	40			
191254		0.25	<10	<10	60	40	115			
191255		0.32	<10	<10	115	40	71			
191256		0.29	<10	<10	113	40	53			
191257		0.22	<10	<10	73	20	38			
191258		0.24	<10	<10	62	20	35			
191259		0.24	<10	<10	76	20	35			
191260		0.25	10	<10	81	<10	36			
191261		0.36	10	<10	115	30	65			
191262		0.40	<10	<10	163	<10	94			
191263		0.41	<10	<10	194	<10	85			
191264		0.35	<10	<10	112	<10	85			
191265		0.32	<10	<10	85	<10	70			
191266		0.26	<10	<10	71	<10	61			
191267		0.32	<10	<10	84	<10	65			
191268		0.49	<10	<10	168	<10	89			
191269		0.27	<10	<10	65	<10	237			
191270		0.45	<10	<10	204	<10	57			
191271		0.35	<10	<10	88	40	38			
191272		0.26	<10	<10	114	<10	564	1.585	412	
191273		0.34	<10	<10	156	<10	78			
191274		0.17	<10	<10	42	<10	38			
191275		0.35	<10	<10	199	<10	187			



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Page: 4 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 13- SEP- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VAI1163893**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	Au- GRA21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %
		0.02	0.001	0.05	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01
191276		1.22	0.031		0.8	7.45	47	370	0.6	6	3.38	<0.5	13	19	215	7.15
191277		1.38	0.003		<0.5	7.14	14	920	0.7	4	1.49	<0.5	3	25	16	2.35
191278		1.36	0.006		<0.5	6.24	20	320	0.6	4	4.09	0.6	10	27	67	3.64
191279		1.66	0.012		0.6	7.68	12	410	0.6	5	1.44	<0.5	9	29	77	5.63
191280		1.68	0.013		<0.5	8.68	32	620	0.6	5	2.40	<0.5	3	31	62	5.12
191281		1.92	>10.0	67.7	69.3	0.38	>10000	10	<0.5	<2	1.75	566	23	892	883	17.45
191282		1.40	0.137		<0.5	6.36	136	210	0.5	<2	4.37	0.7	8	51	14	3.03
191283		1.88	0.020		0.5	7.51	46	110	0.8	7	8.02	0.8	3	18	9	2.07
191284		1.52	0.031		<0.5	8.42	58	690	0.9	5	1.91	0.5	4	18	21	3.16
191285		0.88	0.003		<0.5	5.13	177	830	0.5	<2	4.42	<0.5	3	28	26	2.72
191301		1.62	0.067		<0.5	5.10	309	150	0.6	3	1.65	<0.5	5	46	95	1.68
191302		1.76	0.285		0.5	5.91	1810	440	0.6	5	0.10	1.6	7	50	91	2.13
191303		1.04	0.012		<0.5	6.63	560	800	0.6	5	0.06	<0.5	4	55	29	2.74
191304		1.92	0.023		<0.5	1.76	82	140	<0.5	2	0.04	<0.5	2	23	7	0.59
191305		1.24	0.023		0.8	0.81	200	640	<0.5	2	0.03	<0.5	2	21	33	2.53
191306		1.22	0.031		<0.5	1.09	679	170	<0.5	<2	0.77	<0.5	64	1455	10	4.91
191351		1.68	0.005		<0.5	7.68	16	150	0.7	4	6.12	0.7	3	26	14	4.03





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Page: 4 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 13- SEP- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11163893**

Sample Description	Method Analyte Units LOR	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
		Ca ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
191276		20	0.45	20	0.45	248	2	1.02	9	2390	6	1.99	9	22	172	<20
191277		20	1.43	10	0.32	455	<1	0.38	2	380	7	0.04	7	20	172	<20
191278		10	0.55	10	0.34	525	1	2.15	13	600	6	0.60	5	18	229	<20
191279		10	0.60	20	0.19	390	<1	0.88	13	1780	4	0.91	6	22	118	<20
191280		20	0.90	10	0.27	265	1	1.38	1	930	6	0.20	5	24	183	<20
191281		<10	0.14	10	1.18	2340	<1	0.01	400	20	>10000	>10.0	>10000	3	41	<20
191282		10	0.36	10	1.84	373	3	0.47	16	480	39	0.12	28	10	530	<20
191283		20	0.06	20	0.63	998	1	0.67	5	2690	18	0.09	25	18	240	<20
191284		10	1.17	20	0.76	554	1	1.18	5	450	44	0.10	30	10	257	<20
191285		10	1.08	10	0.09	633	1	0.06	5	170	6	0.02	25	15	233	<20
191301		10	0.19	20	0.36	366	1	0.02	13	360	12	0.11	54	5	268	<20
191302		20	0.93	20	0.05	271	2	0.05	14	460	76	0.02	115	6	410	<20
191303		20	1.13	20	0.03	192	1	0.06	14	780	22	0.04	33	5	578	<20
191304		<10	0.06	10	0.01	41	1	0.03	1	180	6	0.01	21	1	186	<20
191305		<10	0.23	10	0.04	217	8	0.02	3	140	3	0.06	50	1	48	<20
191306		<10	0.28	10	11.15	1035	<1	0.05	1165	60	<2	0.10	109	8	62	<20
191351		20	0.32	10	0.98	1305	2	1.11	4	1270	8	0.33	11	20	227	<20



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Page: 4 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 13- SEP- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11163893**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Pb- OG62	Ag- OG62	Zn- OG62
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Pb % 0.001	Ag ppm 1	Zn % 0.001
191276		0.43	<10	<10	117	<10	46			
191277		0.37	<10	<10	97	<10	41			
191278		0.36	<10	<10	148	<10	54			
191279		0.40	<10	<10	155	<10	98			
191280		0.48	<10	<10	167	<10	80			
191281		0.01	<10	<10	12	10	>10000	4.85		4.12
191282		0.31	<10	<10	81	<10	74			
191283		0.42	10	<10	89	<10	126			
191284		0.26	10	<10	59	<10	94			
191285		0.34	<10	<10	117	10	78			
191301		0.19	<10	<10	48	20	56			
191302		0.24	<10	<10	56	10	115			
191303		0.27	<10	<10	61	10	51			
191304		0.09	<10	<10	21	10	9			
191305		0.03	<10	<10	11	<10	10			
191306		0.02	<10	<10	33	<10	189			
191351		0.35	<10	<10	46	<10	217			


**Appendix 2**  
**Rock Talus Fines XRF As Results**

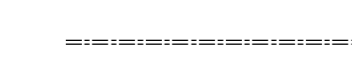


**GOLD FIELDS**

## Appendix 2: Talus Fine Sample As XRF Results






### Legend

 Robson Occurrence Tenure

 Access\_Roads

### Talus Fine Sample

#### Ars\_ppm\_XR

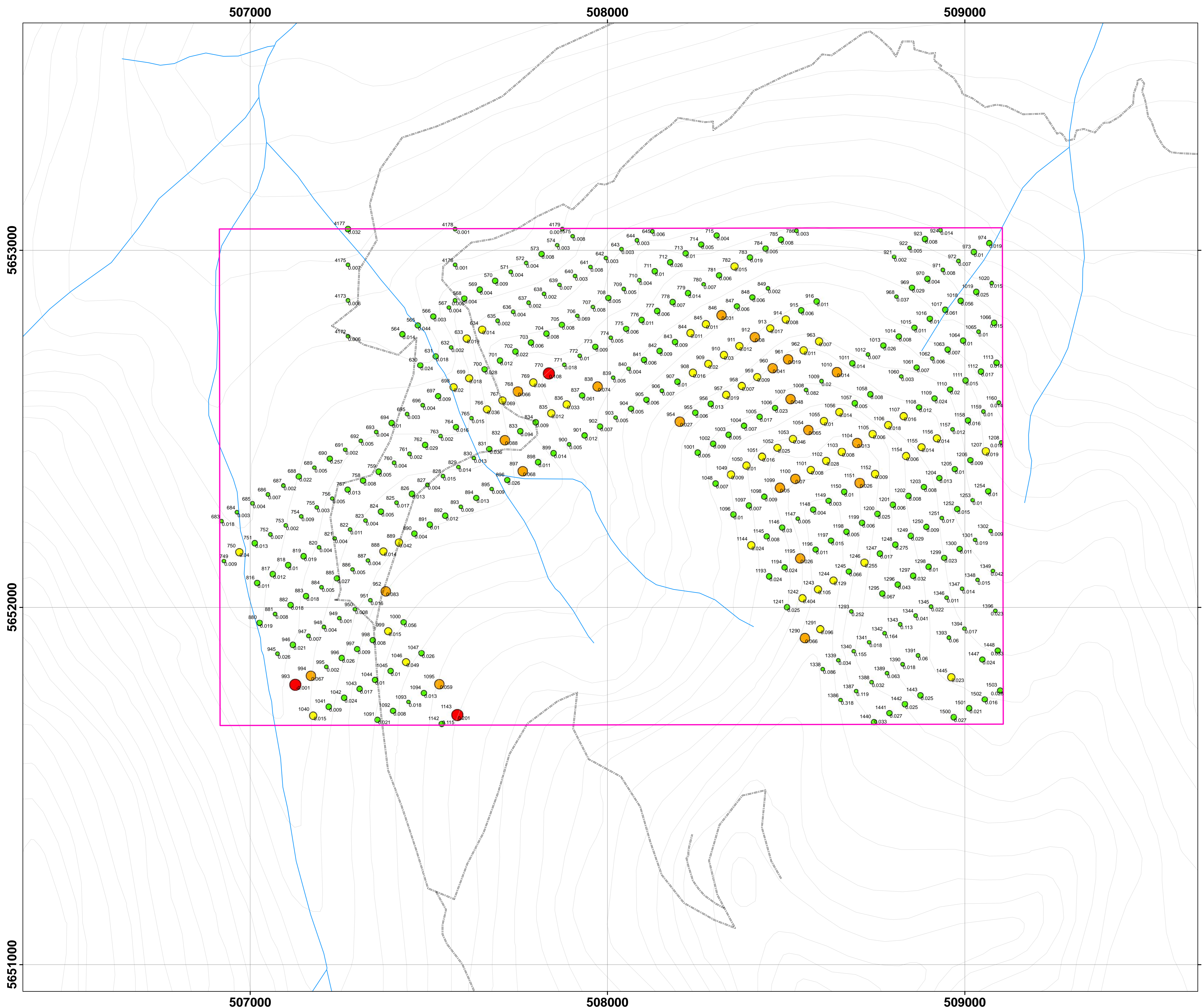
-  0.000000 - 100.000000
-  100.000001 - 250.000000
-  250.000001 - 500.000000
-  500.000001 - 1000.000000
-  1000.000001 - 1734.000000

#### Sample ID

 As\_ppm



1:5,000



### Talus Fine XRF Results

Sample ID	UTM North	UTM East	As ppm	Ba ppm	Co ppm	Cu ppm	Fe pct	Hg ppm	Mn ppm	Mo ppm	Pb ppm	Rb ppm	Sb ppm	Se ppm	Sr ppm	Ti pct	Zn ppm	Zr ppm
564	5652765	507426	113	242	476	53	4.73	10.6	365	10.1	21	30	77.6	1	270	0.51	91	117
565	5652790	507469	250	310	472	49	5.24	10.6	360	10.1	33	35	77.6	1	227	0.54	114	128
566	5652815	507513	130	242	342	47	4.53	10.6	1044	10.1	14	42	77.6	1	378	0.47	130	102
567	5652840	507556	85	508	599	53	6.14	22	553	10.1	15	36	117	4	174	0.66	142	114
568	5652865	507599	213	242	757	75	8	10.6	2177	9	23	45	77.6	1	229	0.54	265	96
569	5652890	507642	205	562	541	53	6.8	16	1028	10.1	15	43	77.6	1	240	0.8	192	116
570	5652915	507686	216	370	698	59	7.01	14	532	12	16	35	77.6	1	149	0.57	170	116
571	5652940	507729	47	242	297	22.9	3.18	10.6	396	10.1	19	30	77.6	1	413	0.44	58	111
572	5652965	507772	90	344	487	36	5.49	12	404	10.1	18	30	77.6	1	235	0.43	108	101
573	5652990	507816	125	242	727	48	6.32	10.6	694	10.1	12	33	77.6	4	169	0.57	137	117
574	5653015	507859	99	242	469	41	5.95	16	455	10	23	25	77.6	1	210	0.55	188	115
575	5653040	507902	73	242	482	54	5.53	10.6	1026	10.1	27	26	77.6	1	297	0.71	172	138
630	5652678	507476	208	242	359	22.9	3.86	14	432	10.1	30	42	77.6	1	472	0.67	74	108
631	5652703	507519	183	242	349	40	3.87	13	441	10.1	26	42	77.6	1	478	0.63	92	123
632	5652728	507563	48	242	307	22.9	2.96	10.6	728	10.1	16	36	77.6	1	504	0.36	85	105
633	5652753	507606	360	373	427	22.9	5.17	18	910	10.1	8	35	77.6	1	225	0.49	106	115
634	5652778	507649	342	380	484	36	6.46	10.6	1537	10.1	13	50	77.6	1	239	0.59	122	136
635	5652803	507692	91	242	493	46	5.3	15	762	10.1	13	34	77.6	1	321	0.55	103	103
636	5652828	507736	52	242	263	32	3.24	10.6	706	10.1	11	34	77.6	4	422	0.44	58	99
637	5652853	507779	42	276	331	22.9	2.77	10	451	10.1	14	32	77.6	1	473	0.33	57	118
638	5652878	507822	62	242	330	24	3.32	10.6	455	10.1	9	30	77.6	4	335	0.32	77	92
639	5652903	507866	72	433	431	38	4.81	10.6	540	10.1	18	26	77.6	1	262	0.45	147	107
640	5652928	507909	53	242	387	24	4.54	10.6	533	10.1	19	30	77.6	1	370	0.45	145	128
641	5652953	507952	63	242	507	32	4.97	11	577	10.1	17	34	77.6	1	392	0.52	142	105
642	5652978	507996	40	242	304	27	3.8	10.6	549	10.1	15	26	77.6	1	380	0.42	124	88
643	5653003	508039	83	242	507	39	5.77	10.6	408	10.1	12	29	77.6	1	231	0.47	163	90
644	5653028	508082	86	329	483	38	5.06	10.6	439	10.1	15	29	77.6	1	312	0.47	106	103
645	5653053	508125	93	242	965	128	10.4	10.6	1218	10.1	19	32	77.6	1	131	0.32	99	70
683	5652242	506920																
684	5652267	506963	85	242	434	34	4.99	12	440	10.1	17	30	77.6	1	272	0.56	155	112
685	5652292	507006	53	242	491	36	4.99	10.6	406	10.1	12	24	77.6	1	266	0.46	150	95
686	5652317	507050	29	242	238	28	3.12	10.6	648	10.1	14	34	77.6	1	392	0.47	108	110
687	5652342	507093	43	485	385	25	3.77	10.6	877	10.1	8	35	77.6	1	324	0.31	121	101
688	5652367	507136	134	242	568	34	5.34	10.6	498	10.1	8.2	31	77.6	1	284	0.54	107	97
689	5652392	507180	99	371	397	35	4.62	13	345	10.1	8.2	39	77.6	1	354	0.48	68	97
690	5652417	507223	185	407	395	51	4.36	10.6	302	10.1	20	28	77.6	1	411	0.52	75	111
691	5652442	507266	28	356	546	53	4.38	13	367	9	14	32	77.6	1	275	0.43	99	88
692	5652467	507309	57	341	544	76	5.72	12	917	10.1	12	24	77.6	1	222	0.45	147	82

### Talus Fine XRF Results

Sample ID	UTM North	UTM East	As ppm	Ba ppm	Co ppm	Cu ppm	Fe pct	Hg ppm	Mn ppm	Mo ppm	Pb ppm	Rb ppm	Sb ppm	Se ppm	Sr ppm	Ti pct	Zn ppm	Zr ppm
693	5652492	507353	25	394	325	29	3.73	13	388	10.1	14	30	77.6	1	365	0.42	91	86
694	5652517	507396	147	242	286	31	3.07	10.6	495	10	8.2	22	77.6	1	212	0.33	46	59
695	5652542	507439	46	242	416	30	3.93	10.6	266	10.1	12	31	77.6	1	226	0.51	95	100
696	5652567	507483	19	242	222	22.9	2.21	10.6	332	10.1	11	37	77.6	1	414	0.29	41	117
697	5652592	507526	109	354	491	40	4.51	10.6	251	10.1	13	44	77.6	1	251	0.47	89	103
698	5652617	507569	367	242	326	22.9	5.24	10.6	1335	10.1	39	46	77.6	1	446	0.74	102	103
699	5652642	507613	405	242	552	75	7.03	18	824	10.1	32	44	77.6	1	238	0.7	233	122
700	5652667	507656	148	242	430	55	5.78	10.6	822	10.1	11	33	77.6	1	294	0.39	84	89
701	5652692	507699	194	242	566	80	7.78	10.6	1226	10.1	14	38	77.6	1	216	0.54	92	87
702	5652717	507742	182	242	555	45	6.1	10.6	962	10.1	13	49	77.6	1	318	0.54	70	116
703	5652742	507786	204	242	496	42	6.58	10.6	950	10.1	15	34	77.6	1	327	0.67	94	115
704	5652767	507829	167	242	486	41	5.75	10.6	504	10.1	12	34	77.6	1	239	0.58	105	103
705	5652792	507872	161	354	450	39	5.09	10.6	470	10.1	16	37	77.6	1	300	0.44	88	103
706	5652817	507916	64	242	255	22.9	3.3	10.6	334	10.1	15	26	77.6	1	426	0.34	65	93
707	5652842	507959	78	242	497	22.9	5.12	10.6	334	10.1	9	30	77.6	1	318	0.44	97	97
708	5652867	508002	110	242	815	68	8.06	10.6	430	10.1	14	32	77.6	1	152	0.49	136	97
709	5652892	508046	69	242	403	67	6.33	10.6	646	10.1	14	27	77.6	1	145	0.35	106	79
710	5652917	508089	67	365	485	31	5.85	10.6	411	10.1	12	29	77.6	1	257	0.43	170	98
711	5652942	508132	152	242	855	60	9.14	10.6	474	10.1	12	31	77.6	5	145	0.56	175	100
712	5652967	508175	209	242	610	52	7.07	12	896	10.1	21	31	77.6	1	239	0.37	134	108
713	5652992	508219	235	436	853	86	8.92	10.6	1390	10.1	32	28	77.6	1	192	0.36	222	85
714	5653017	508262	155	242	749	52	7.96	10.6	1268	10.1	27	33	77.6	1	201	0.55	196	89
715	5653042	508305	143	242	670	63	7.8	10.6	2111	10.1	21	31	77.6	1	107	0.5	168	87
749	5652130	506926																
750	5652155	506970	258	242	376	41	5.19	10.6	775	10.1	14	24	77.6	1	378	0.54	87	119
751	5652180	507013	129	444	499	64	5.55	10.6	728	10.1	14	35	77.6	1	284	0.57	123	115
752	5652205	507056	75	242	434	34	4.82	10.6	466	10.1	12	31	77.6	1	281	0.47	100	98
753	5652230	507100	68	318	580	76	5.97	19	508	10.1	9	28	77.6	1	196	0.51	129	113
754	5652255	507143	85	242	353	44	5.17	10.6	451	10.1	12	35	77.6	1	301	0.51	106	104
755	5652280	507186	50	445	468	46	4.83	10.6	432	10.1	15	34	77.6	1	249	0.47	123	104
756	5652305	507230	76	449	467	60	5.18	11	460	10.1	12	37	77.6	1	319	0.41	173	95
757	5652330	507273	106	242	335	32	3.85	13	383	10.1	11	33	77.6	1	381	0.49	83	90
758	5652355	507316	126	280	224	38	2.83	10.6	1328	11	14	32	77.6	1	474	0.3	45	87
759	5652380	507359	128	242	378	33	3.66	10.6	405	10.1	17	36	77.6	1	324	0.44	69	129
760	5652405	507403	20	242	256	22.9	2.83	10.6	654	10.1	13	37	77.6	1	510	0.41	52	104
761	5652430	507446	13	242	183	22.9	2.16	11	448	10.1	10	35	77.6	1	545	0.29	33	105
762	5652455	507489	108	242	467	36	4.58	12	257	10.1	18	29	77.6	4	240	0.53	58	99
763	5652480	507533	18	276	179	22.9	2.35	10.6	391	10.1	17	37	77.6	1	467	0.31	45	98

### Talus Fine XRF Results

Sample ID	UTM North	UTM East	As ppm	Ba ppm	Co ppm	Cu ppm	Fe pct	Hg ppm	Mn ppm	Mo ppm	Pb ppm	Rb ppm	Sb ppm	Se ppm	Sr ppm	Ti pct	Zn ppm	Zr ppm
764	5652505	507576	144	313	389	36	4.06	10.6	391	10.1	21	36	77.6	1	349	0.43	57	132
765	5652530	507619	100	296	418	37	3.86	10.6	342	10.1	18	41	77.6	1	304	0.45	77	111
766	5652555	507663	307	242	481	63	5.25	10.6	1096	10.1	30	42	77.6	1	434	0.53	114	111
767	5652580	507706	442	242	805	84	8.4	10.6	1152	10.1	20	36	77.6	1	327	0.76	100	111
768	5652605	507749	587	242	702	58	9.15	14	478	10.1	117	41	94	1	197	0.6	113	87
769	5652630	507792	370	242	596	41	5.54	10.6	495	10.1	21	43	77.6	1	308	0.59	96	142
770	5652655	507836	1129	242	408	22.9	4.39	19	646	10.1	15	56	77.6	1	234	0.43	77	102
771	5652680	507879	96	547	582	64	7.95	15	1140	10.1	9	52	77.6	1	354	0.79	103	103
772	5652705	507922	45	242	177	25	3.03	10.6	449	10.1	12	29	77.6	1	550	0.33	43	98
773	5652730	507966	104	242	242	37	3.59	18	464	10.1	16	37	77.6	1	390	0.4	70	107
774	5652755	508009	48	334	384	22.9	3.59	13	393	10.1	8.2	32	77.6	1	472	0.39	78	117
775	5652780	508052	142	439	552	94	6.23	15	393	10.1	8.2	33	77.6	4	111	0.35	120	130
776	5652805	508096	102	242	752	79	8	10.6	445	10.1	14	23	77.6	1	107	0.57	160	100
777	5652830	508139	115	242	673	78	6.64	11	525	10.1	17	22	77.6	1	315	0.34	85	90
778	5652855	508182	112	242	496	63	5.67	10.6	662	10.1	17	32	77.6	5	398	0.43	140	92
779	5652880	508225	193	242	744	66	7.93	18	913	10.1	17	29	77.6	1	235	0.45	162	106
780	5652905	508269																
781	5652930	508312	177	242	863	108	9.5	13	1425	10.1	41	36	77.6	6	229	0.52	239	120
782	5652955	508355	274	242	1082	175	13.2	10.6	1420	10.1	63	36	77.6	7	328	0.64	237	84
783	5652980	508399	221	242	718	80	6.74	11	1412	10	33	34	78	4	220	0.38	172	78
784	5653005	508442	183	242	1083	147	10.1	11	752	10	36	31	78	5	315	0.55	155	98
785	5653030	508485	116	242	395	32	4.06	11	547	10	17	31	78	1	301	0.36	53	111
786	5653055	508529	78	277	335	32	3.95	11	568	10	22	30	78	1	444	0.34	73	88
816	5652068	507020	208	242	340	43	3.93	11	546	10	14	26	83	1	292	0.46	98	88
817	5652093	507063	149	242	324	26	3.11	12	725	10	11	26	78	1	421	0.35	54	75
818	5652118	507106	132	242	321	47	3.74	11	381	10	14	33	78	1	381	0.48	73	87
819	5652143	507150	159	242	452	42	3.7	11	579	10	14	33	78	1	261	0.44	104	96
820	5652168	507193	58	242	271	23	3.2	11	433	10	9	30	78	1	430	0.36	64	86
821	5652193	507236																
822	5652218	507280																
823	5652243	507323	49	242	318	22.9	3.04	10.6	481	10	18	41	77.6	1	416	0.43	56	132
824	5652268	507366	243	242	319	41	3.16	10.6	524	10.1	22	37	77.6	1	447	0.46	69	116
825	5652293	507409	63	276	253	22.9	2.69	10.6	312	10.1	18	38	77.6	1	359	0.44	52	143
826	5652318	507453	126	242	328	33	4.22	10.6	324	26	18	42	77.6	1	444	0.63	87	156
827	5652343	507496																
828	5652368	507539	57	242	228	22.9	2.7	10.6	281	14	18	43	77.6	1	400	0.39	37	149
829	5652393	507583	89	242	296	36	3.49	11	308	10.1	21	36	77.6	1	324	0.59	60	133
830	5652418	507626																

### Talus Fine XRF Results

Sample ID	UTM North	UTM East	As ppm	Ba ppm	Co ppm	Cu ppm	Fe pct	Hg ppm	Mn ppm	Mo ppm	Pb ppm	Rb ppm	Sb ppm	Se ppm	Sr ppm	Ti pct	Zn ppm	Zr ppm
831	5652443	507669	194	242	428	40	4.93	10.6	413	10.1	29	36	77.6	1	285	0.56	93	119
832	5652468	507713	638	242	450	79	6.42	10.6	888	10.1	81	46	77.6	1	493	0.88	125	210
833	5652493	507756	191	242	222	58	2.57	11	296	10.1	44	35	87	6	343	0.41	111	133
834	5652518	507799	218	485	741	85	8.41	10.6	1192	10.1	25	55	77.6	1	286	0.73	115	138
835	5652543	507842	295	242	893	89	9.52	10.6	1001	10.1	16	51	77.6	1	219	0.58	112	146
836	5652568	507886	487	586	649	75	6.52	10.6	1043	10.1	14	56	77.6	1	241	0.51	112	150
837	5652593	507929	161	242	715	92	8.72	14	1578	10.1	15	44	77.6	1	278	0.65	117	108
838	5652618	507972	814	242	693	79	7.17	10.6	1025	10.1	44	48	132	1	143	0.62	123	97
839	5652643	508016	83	242	834	70	10.7	10.6	1606	15	15	21	77.6	7	249	0.46	205	80
840	5652668	508059																
841	5652693	508102	162	242	559	27	6.16	10.6	1006	10.1	23	33	77.6	1	318	0.6	138	104
842	5652718	508146	169	242	589	74	7.39	10.6	859	10.1	25	31	77.6	1	277	0.6	125	113
843	5652743	508189	136	242	1256	116	16.4	10.6	931	10.1	24	24	77.6	1	183	0.53	152	91
844	5652768	508232	256	242	889	101	11	10.6	1064	17	31	34	77.6	1	191	0.73	175	104
845	5652793	508275	255	242	1016	97	9.93	10.6	2163	10.1	29	32	77.6	1	324	0.37	440	82
846	5652818	508319	598	242	782	75	9.09	15	1820	10.1	32	32	77.6	5	193	0.51	242	100
847	5652843	508362	246	499	1360	144	15.5	10.6	1162	10.1	42	26	77.6	1	199	0.49	266	80
848	5652868	508405	195	242	1173	127	11.9	10.6	1694	10.1	62	35	77.6	1	320	0.58	229	89
849	5652893	508449	99	242	2195	309	31.4	10.6	1259	10.1	143	22	77.6	11	243	0.49	182	40
880	5651957	507026	116	244	410	38	3.96	11	815	10	8	18	78	1	209	0.23	103	71
881	5651982	507070	74	242	350	35	4.54	11	797	10	17	23	78	1	422	0.65	106	94
882	5652007	507113	173	242	193	25	2.08	11	425	10	9	24	78	1	412	0.26	42	63
883	5652032	507156	127	359	418	33	4.51	14	355	10	14	26	78	1	407	0.56	98	88
884	5652057	507200	78	242	318	23	3.07	13	357	10	12	32	78	1	364	0.41	72	99
885	5652082	507243	229	242	452	48	5.27	11	610	10.1	15	35	77.6	1	479	0.76	89	98
886	5652107	507286																
887	5652132	507330	24	292	184	22.9	2.04	12	392	10.1	9	31	77.6	1	521	0.29	45	88
888	5652157	507373	372	337	368	35	3.44	12	224	10.1	20	35	77.6	1	365	0.48	77	107
889	5652182	507416	402	311	290	57	3.2	15	346	10.1	25	34	77.6	1	383	0.38	54	121
890	5652207	507459	198	242	187	22.9	1.6	10.6	373	10.1	12	34	77.6	1	490	0.25	40	90
891	5652232	507503	127	242	251	22.9	2.52	10.6	324	10.1	16	46	77.6	1	381	0.51	73	126
892	5652257	507546	145	362	273	29	3.11	12	358	10.1	12	36	77.6	1	380	0.43	62	116
893	5652282	507589	81	242	335	32	2.95	11	331	10.1	15	40	77.6	1	434	0.43	55	115
894	5652307	507633	155	242	568	49	5.34	13	355	10.1	15	28	77.6	4	246	0.49	160	130
895	5652332	507676	62	242	223	25	2.35	15	430	10.1	14	38	77.6	1	456	0.41	48	122
896	5652357	507719	213	242	411	56	5.94	13	447	10	29	43	77.6	1	281	0.71	121	113
897	5652382	507763	646	242	467	98	7.1	10.6	1117	10.1	66	58	77.6	1	467	1	127	279
898	5652407	507806	147	397	416	36	4.14	10.6	492	10.1	35	34	77.6	1	418	0.48	61	107



### Talus Fine XRF Results

Sample ID	UTM North	UTM East	As ppm	Ba ppm	Co ppm	Cu ppm	Fe pct	Hg ppm	Mn ppm	Mo ppm	Pb ppm	Rb ppm	Sb ppm	Se ppm	Sr ppm	Ti pct	Zn ppm	Zr ppm
899	5652432	507849	163	242	438	59	5.29	10.6	603	10.1	32	38	77.6	1	388	0.54	60	100
900	5652457	507892	81	242	272	33	3.42	10.6	421	10.1	13	36	77.6	1	462	0.43	49	113
901	5652482	507936	161	396	399	47	4.92	10.6	1090	10.1	25	44	77.6	1	286	0.47	150	140
902	5652507	507979	108	242	372	40	4.28	10.6	829	10.1	23	44	77.6	1	341	0.56	137	132
903	5652532	508022	81	242	358	28	4.06	10.6	613	10.1	19	37	77.6	1	321	0.5	84	117
904	5652557	508066	166	242	547	90	6.32	15	1338	10	13	45	77.6	1	284	0.7	150	106
905	5652582	508109	175	373	501	59	6.31	10.6	1177	10.1	26	37	77.6	1	325	0.62	145	161
906	5652607	508152	54	242	888	136	8.42	12	902	10.1	15	28	77.6	5	278	0.4	133	81
907	5652632	508196	167	573	1528	256	16.6	22	1082	10.1	28	28	110	6	235	0.54	174	102
908	5652657	508239	349	242	1025	99	12.4	10.6	1397	10.1	27	28	77.6	1	196	0.55	200	96
909	5652682	508282	270	371	556	71	7.34	10.6	1231	10.1	16	33	77.6	1	336	0.46	130	82
910	5652707	508325	432	242	790	68	10.2	10.6	1862	10.1	28	31	89	1	232	0.49	191	97
911	5652732	508369	367	242	1004	129	15.9	10.6	4167	10.1	30	28	77.6	5	124	0.39	187	56
912	5652757	508412	737	242	931	107	10.4	10.6	2845	10.1	30	38	77.6	7	110	0.51	197	81
913	5652782	508455	255	242	513	68	6.61	10.6	1948	10.1	32	39	77.6	1	99	0.46	253	94
914	5652807	508499	271	382	742	103	8.76	10.6	2714	10.1	40	32	77.6	6	240	0.56	255	137
915	5652832	508542	180	242	660	96	9.98	10.6	3969	10.1	95	29	77.6	1	242	0.58	444	104
916	5652857	508585	201	563	795	104	11.4	10.6	1483	10.1	57	35	77.6	5	372	0.59	252	87
921	5652982	508802	49	242	1133	103	14.7	11	623	10	86	28	78	8	350	0.36	102	61
922	5653007	508845	39	393	510	108	8.82	11	2125	11	101	38	78	7	183	0.41	218	91
923	5653032	508888	110	339	551	123	8.4	16	2777	10	118	32	78	6	162	0.31	308	84
924	5653057	508932	72	242	780	118	10.4	11	2663	13	114	38	78	5	167	0.42	220	73
945	5651870	507076	13	236	201	23	2.02	13	407	10	13	33	78	1	517	0.27	45	103
946	5651895	507120	148	242	320	27	2.27	11	368	10	8	18	78	1	137	0.16	54	42
947	5651920	507163	87	242	387	31	3.96	11	332	10	13	24	78	1	356	0.5	95	98
948	5651945	507206	46	298	272	23	2.85	11	401	10	13	28	78	1	491	0.33	60	105
949	5651970	507250	11	242	187	23	1.61	16	301	10	15	29	78	1	585	0.2	31	85
950	5651995	507293	79	354	283	26	2.78	11	264	10	12	33	78	1	459	0.28	54	95
951	5652020	507336																
952	5652045	507380	586	242	312	81	4.15	11	533	10	18	37	78	1	486	0.59	67	105
954	5652520	508202	638	242	699	93	8.54	11	870	10	25	33	89	1	324	0.54	189	105
955	5652545	508246	227	409	572	79	7.21	15	2167	10	29	31	78	1	395	0.56	146	108
956	5652570	508289	152	395	750	110	9.12	11	1606	10	24	33	78	5	305	0.56	335	104
957	5652595	508332	470	242	930	80	11.9	10.6	1709	10.1	29	33	77.6	1	214	0.73	207	96
958	5652620	508375	252	242	1143	133	14.1	10.6	1530	10.1	27	29	77.6	1	200	0.61	206	101
959	5652645	508419	263	242	1165	121	14	10.6	1687	10.1	30	32	110	7	185	0.63	215	75
960	5652670	508462	549	242	755	91	11.1	10.6	4805	10.1	17	31	77.6	1	129	0.54	179	70
961	5652695	508505	899	242	1267	101	14.2	10.6	1924	10.1	37	32	130	8	110	0.41	186	78

### Talus Fine XRF Results

Sample ID	UTM North	UTM East	As ppm	Ba ppm	Co ppm	Cu ppm	Fe pct	Hg ppm	Mn ppm	Mo ppm	Pb ppm	Rb ppm	Sb ppm	Se ppm	Sr ppm	Ti pct	Zn ppm	Zr ppm
962	5652720	508549	341	387	776	82	9.06	10.6	1864	10.1	72	32	77.6	1	192	0.49	333	79
963	5652745	508592	262	560	1188	215	13.3	10.6	2244	10.1	63	25	77.6	7	204	0.42	302	77
968	5652870	508809	9	242	920	142	15.9	11	3226	16	586	38	78	8	179	0.54	441	82
969	5652895	508852	136	242	658	105	8.7	11	1994	11	53	37	78	6	456	0.5	224	105
970	5652920	508895	125	421	663	83	8.5	11	741	10	46	22	78	7	272	0.52	157	76
971	5652945	508938	57	411	852	98	8.78	18	1383	9	28	32	78	6	181	0.51	236	89
972	5652970	508982	59	242	362	42	3.4	11	460	10	19	30	78	1	420	0.29	71	81
973	5652995	509025	111	242	566	57	6.17	11	537	10	21	26	78	1	423	0.5	104	89
974	5653020	509068	130	242	1189	130	14.7	11	913	10	41	28	78	6	345	0.73	207	82
993	5651784	507126	1734	242	309	23	3.52	26	463	11	8	16	78	6	186	0.09	14	41
994	5651809	507170	846	405	312	51	2.83	11	290	10	26	38	70	1	277	0.27	78	85
995	5651834	507213	22	242	223	23	2.25	10	341	10	7	31	78	1	518	0.25	51	100
996	5651859	507256	183	381	328	54	3.91	13	327	10	11	30	78	1	439	0.57	82	109
997	5651884	507300	156	242	274	39	3.5	11	355	10	15	27	78	1	434	0.44	69	85
998	5651909	507343	109	242	285	23	3.2	12	280	10	15	33	78	1	417	0.44	61	104
999	5651934	507386	473	242	316	50	4.02	16	313	10	20	40	78	1	338	0.55	116	115
1000	5651959	507430	117	282	251	38	2.83	11	282	10	15	40	78	1	433	0.4	70	131
1001	5652434	508252	108	318	363	37	3.96	11	986	10	17	39	78	1	493	0.46	81	118
1002	5652459	508296	144	242	447	35	5.43	11	1161	10	19	35	78	1	414	0.62	125	97
1003	5652484	508339	147	242	830	80	8.49	11	1036	10	25	30	78	1	227	0.56	137	97
1004	5652509	508382	228	514	633	46	9.06	15	1941	10	27	36	78	1	225	0.71	227	98
1005	5652534	508425	198	242	685	70	8.41	11	1367	10	23	39	78	5	278	0.58	176	113
1006	5652559	508469	205	242	596	79	7.8	18	1287	10	17	35	78	1	214	0.57	129	101
1007	5652584	508512	898	422	589	60	8.46	10.6	955	10.1	17	49	77.6	1	116	0.51	148	97
1008	5652609	508555																
1009	5652634	508599																
1010	5652659	508642	694	242	1482	192	19.9	10.6	1370	19	93	31	77.6	14	200	0.5	392	69
1011	5652684	508685	241	242	1162	118	14.5	11	1224	11	43	35	78	9	146	0.56	243	84
1012	5652709	508729	90	383	417	83	6.93	11	958	10	24	34	78	5	126	0.47	229	97
1013	5652734	508772	219	522	580	123	11.6	11	3270	26	36	45	78	6	73	0.42	233	79
1014	5652759	508815	111	499	874	109	11.9	11	1905	19	45	38	78	8	285	0.47	357	73
1015	5652784	508859	105	242	698	104	9.29	11	1433	10	45	34	78	1	320	0.54	312	103
1016	5652809	508902	158	410	732	88	9.6	11	1454	10	35	34	78	1	310	0.59	214	96
1017	5652834	508945	238	242	562	66	6.32	11	670	10	21	34	78	4	223	0.39	144	76
1018	5652859	508988	147	523	1449	107	14	11	574	10	33	37	78	6	317	0.52	95	92
1019	5652884	509032	159	242	771	91	8.57	11	974	10	26	30	78	1	329	0.59	146	80
1020	5652909	509075	97	474	1312	150	14.2	11	719	9	34	37	78	8	208	0.47	121	75
1040	5651697	507176	289	242	376	47	4.12	11	458	10	16	35	78	1	308	0.58	95	122

### Talus Fine XRF Results

Sample ID	UTM North	UTM East	As ppm	Ba ppm	Co ppm	Cu ppm	Fe pct	Hg ppm	Mn ppm	Mo ppm	Pb ppm	Rb ppm	Sb ppm	Se ppm	Sr ppm	Ti pct	Zn ppm	Zr ppm
1041	5651722	507220	131	384	427	34	4.84	15	490	10	22	27	78	1	449	0.83	98	127
1042	5651747	507263	184	422	423	48	5.32	12	466	10	18	32	78	1	439	0.75	121	112
1043	5651772	507306	185	242	398	32	4.88	11	405	10	20	34	78	1	402	0.68	115	105
1044	5651797	507350	226	242	463	72	5.79	14	540	10	19	33	78	1	297	0.5	97	104
1045	5651822	507393	122	242	330	39	3.54	14	346	10	14	33	78	1	368	0.44	63	115
1046	5651847	507436	423	462	386	57	4.58	11	375	10	81	47	78	1	280	0.57	112	121
1047	5651872	507480	190	242	303	41	3.46	11	366	10	25	47	78	1	429	0.55	70	119
1048	5652347	508302	165	242	393	35	5.22	11	729	10	23	37	78	1	406	0.56	113	135
1049	5652372	508346	270	242	526	50	5.2	12	1270	10	21	31	78	5	354	0.47	115	93
1050	5652397	508389	317	441	537	67	6.27	11	1041	10	17	37	78	1	423	0.55	140	102
1051	5652422	508432	338	375	792	64	8.53	13	804	11	16	36	78	4	202	0.62	149	96
1052	5652447	508475	259	242	816	94	9.83	10.6	666	13	16	35	77.6	6	140	0.79	124	77
1053	5652472	508519	471	424	806	84	8.78	10.6	1158	12	27	40	77.6	1	152	0.75	210	93
1054	5652497	508562	600	242	989	93	11.8	10.6	1896	13	35	33	77.6	11	365	0.64	209	93
1055	5652522	508605	410	242	753	103	9.61	10.6	1524	10.1	44	42	77.6	1	219	0.71	209	104
1056	5652547	508649	321	547	975	143	11.8	10.6	1462	25	34	39	115	6	198	0.75	254	113
1057	5652572	508692	152	242	1828	105	26.3	10.6	1336	19	82	32	77.6	13	203	0.54	289	91
1058	5652597	508735	186	242	1450	102	18.8	10.6	1321	10.1	54	28	77.6	7	296	0.6	277	66
1060	5652647	508822	43	394	865	84	10.5	11	2224	10	28	30	78	4	294	0.58	171	97
1061	5652672	508865	133	242	772	120	10.4	11	1266	10	34	38	78	4	303	0.54	167	99
1062	5652697	508909	73	389	352	51	3.35	12	502	10	21	32	78	1	443	0.27	66	98
1063	5652722	508952	177	516	540	54	6.31	11	576	10	27	37	78	4	333	0.61	142	113
1064	5652747	508995	131	242	428	56	5.06	13	508	10	25	33	78	1	460	0.46	105	87
1065	5652772	509038	100	242	575	62	6.53	19	395	10	27	27	78	5	368	0.4	83	87
1066	5652797	509082	111	441	685	73	8.29	11	882	10	25	36	78	1	414	0.55	130	85
1091	5651685	507356	181	425	365	51	3.94	11	335	10	14	30	78	1	413	0.5	85	103
1092	5651710	507400	128	242	396	45	4.13	15	307	10	20	40	78	5	328	0.54	63	100
1093	5651735	507443																
1094	5651760	507486	155	242	259	27	3.08	12	367	10	19	44	78	1	402	0.48	63	130
1095	5651785	507530	701	242	286	42	3.19	11	244	10	61	72	78	1	404	0.55	107	177
1096	5652260	508352	126	389	592	70	6.09	12	483	10	15	33	78	1	262	0.48	125	101
1097	5652285	508396	127	242	452	48	4.48	11	678	10	14	35	78	1	397	0.54	84	94
1098	5652310	508439	223	435	761	89	8.71	10.6	855	12	18	33	77.6	1	160	0.63	117	105
1099	5652335	508482	964	242	789	87	10	10.6	578	11	18	37	218	1	257	0.71	93	98
1100	5652360	508525	759	242	727	70	9.15	10.6	714	11	13	38	281	1	176	0.91	93	89
1101	5652385	508569	255	494	944	87	9.65	10.6	728	16	21	32	77.6	5	135	0.59	130	90
1102	5652410	508612	481	242	957	90	10.8	10.6	758	10.1	35	34	77.6	6	183	0.62	131	93
1103	5652435	508655	393	242	841	91	9.47	16	1678	13	25	35	77.6	1	189	0.62	212	111

### Talus Fine XRF Results

Sample ID	UTM North	UTM East	As ppm	Ba ppm	Co ppm	Cu ppm	Fe pct	Hg ppm	Mn ppm	Mo ppm	Pb ppm	Rb ppm	Sb ppm	Se ppm	Sr ppm	Ti pct	Zn ppm	Zr ppm
1104	5652460	508699	577	376	697	63	7.66	22	1134	13	28	39	77.6	1	226	0.57	147	111
1105	5652485	508742	352	242	751	86	8.33	10.6	1390	10.1	24	47	77.6	1	270	0.71	199	92
1106	5652510	508785	308	242	1394	115	16.7	10.6	1354	14	56	32	77.6	8	182	0.62	206	74
1107	5652535	508829	281	242	654	69	7.63	18	1278	16	30	41	77.6	1	266	0.58	176	107
1108	5652560	508872	241	427	757	85	8.73	10.6	1532	27	31	38	77.6	1	227	0.7	177	122
1109	5652585	508915	163	242	486	70	6.02	13	829	10	16	31	78	1	390	0.51	115	93
1110	5652610	508959	195	242	696	116	10	14	1539	11	21	29	78	1	652	0.45	94	71
1111	5652635	509002	113	427	1192	107	13.9	11	558	20	32	30	78	1	245	0.39	96	75
1112	5652660	509045	172	242	894	117	10.6	11	925	11	24	31	100	5	243	0.4	85	79
1113	5652685	509088	125	404	784	65	8.8	11	747	10	19	28	78	5	356	0.4	99	79
1142	5651674	507536	157	395	325	33	3.97	11	329	10	21	49	78	1	426	0.56	96	134
1143	5651699	507580	1182	387	352	56	5.36	11	548	10	119	47	78	5	411	0.75	203	135
1144	5652174	508402	257	421	547	51	5.11	12	556	10	23	39	78	1	370	0.55	131	111
1145	5652199	508446	143	242	304	33	3.71	11	391	10	21	34	78	1	493	0.55	78	96
1146	5652224	508489	145	301	366	44	4.22	14	887	10	27	52	78	1	467	0.58	94	93
1147	5652249	508532	87	476	591	65	5.56	11	457	18	16	35	78	4	217	0.42	94	98
1148	5652274	508575	140	242	822	89	8.86	16	600	11	31	38	77.6	1	267	0.77	113	103
1149	5652299	508619	103	242	762	96	7.6	12	459	14	23	33	77.6	4	165	0.52	107	85
1150	5652324	508662	179	465	926	82	10.6	18	671	29	27	36	77.6	5	248	0.67	92	100
1151	5652349	508705	560	242	904	76	9.89	10.6	868	13	29	45	109	1	246	0.69	123	110
1152	5652374	508749	297	242	610	76	7.31	10.6	1087	11	23	39	77.6	1	317	0.69	122	129
1154	5652424	508835	295	534	595	73	6.84	10.6	1317	12	23	42	77.6	1	316	0.67	153	139
1155	5652449	508879	274	242	558	56	6.03	10.6	780	10.1	24	37	77.6	1	333	0.65	144	127
1156	5652474	508922	344	242	562	67	7.28	10.6	996	11	35	38	77.6	1	316	0.69	155	110
1157	5652499	508965	100	356	415	46	5.23	11	761	10	19	37	78	1	388	0.49	97	80
1158	5652524	509009	107	242	287	32	3.51	11	504	10	12	29	78	1	349	0.36	75	69
1159	5652549	509052	78	242	417	47	4.33	11	477	10	13	22	78	4	301	0.34	73	82
1160	5652574	509095	59	332	448	68	5.71	11	781	10	11	25	78	1	366	0.4	74	80
1193	5652087	508452	186	242	267	48	4.27	11	455	10	27	42	78	1	384	0.68	73	133
1194	5652112	508496	244	242	416	59	5.6	11	633	10	32	46	78	4	339	0.85	114	139
1195	5652137	508539	523	242	706	83	7.61	14	594	10.1	33	40	77.6	1	278	0.64	163	126
1196	5652162	508582	184	242	412	71	4.94	12	865	10.1	22	35	77.6	1	409	0.56	111	129
1197	5652187	508625	239	485	504	105	7.27	10.6	732	14	29	40	77.6	6	316	0.63	88	87
1198	5652212	508669	176	496	565	67	7.41	15	1467	10.1	25	33	77.6	1	403	0.76	118	114
1199	5652237	508712	119	242	507	46	6.3	10.6	1431	10.1	19	34	77.6	1	407	0.73	113	112
1200	5652262	508755	152	242	552	52	5.73	10.6	1118	10.1	25	35	77.6	1	366	0.67	109	116
1201	5652287	508799	147	242	552	60	5.39	10.6	765	14	21	30	77.6	1	290	0.62	102	103
1202	5652312	508842	155	343	498	58	5.25	15	778	11	23	35	77.6	4	327	0.49	106	114

### Talus Fine XRF Results

Sample ID	UTM North	UTM East	As ppm	Ba ppm	Co ppm	Cu ppm	Fe pct	Hg ppm	Mn ppm	Mo ppm	Pb ppm	Rb ppm	Sb ppm	Se ppm	Sr ppm	Ti pct	Zn ppm	Zr ppm
1203	5652337	508885	189	242	571	59	6.29	10.6	615	10.1	29	37	77.6	4	361	0.72	108	106
1204	5652362	508929	152	242	557	54	6.36	10.6	912	9	18	33	109	1	269	0.65	133	99
1205	5652387	508972	106	242	432	51	4.16	11	655	10	15	29	78	1	324	0.38	82	81
1206	5652412	509015	198	366	311	57	4.28	11	1047	10	12	35	78	1	408	0.33	94	83
1207	5652437	509059	394	242	512	79	5.86	11	422	10	16	30	79	1	167	0.37	125	73
1208	5652462	509102	99	242	229	23	3.15	10	360	10	19	25	78	1	325	0.3	81	76
1241	5652001	508502	227	242	256	44	4.08	15	950	10	52	40	78	1	502	0.62	85	87
1242	5652026	508546	378	242	586	86	7.43	17	1038	10.1	36	54	77.6	1	457	1.11	125	146
1243	5652051	508589	254	576	631	107	6.56	10.6	983	10.1	36	64	77.6	1	436	1.14	143	147
1244	5652076	508632	274	242	488	121	6.24	15	1146	10.1	48	62	77.6	1	399	0.84	120	140
1245	5652101	508675	246	418	511	82	6.18	10.6	972	10.1	28	63	77.6	1	441	0.93	143	130
1246	5652126	508719	356	506	385	92	5.57	17	1228	10.1	40	51	77.6	1	403	0.65	151	135
1247	5652151	508762	137	442	467	52	5.16	10.6	643	10.1	18	29	77.6	1	379	0.57	83	99
1248	5652176	508805	200	242	512	88	5.13	10.6	776	10.1	27	40	77.6	1	354	0.59	113	128
1249	5652201	508849	196	383	681	74	6.59	16	623	10.1	18	27	77.6	5	304	0.49	104	113
1250	5652226	508892	217	611	416	58	5.96	10.6	806	10.1	27	36	77.6	1	400	0.64	103	128
1251	5652251	508935																
1252	5652276	508979	159	242	588	64	6.99	13	1088	10.1	22	26	77.6	1	318	0.7	148	134
1253	5652301	509022	97	242	370	47	3.7	11	694	10	16	25	78	1	262	0.46	92	81
1254	5652326	509065	106	242	448	48	4.56	12	369	10	15	25	78	1	256	0.44	99	76
1290	5651914	508552	535	552	492	108	6.79	14	1031	10.1	66	64	77.6	1	409	1.07	171	209
1291	5651939	508596	482	499	535	98	7.18	10.6	1352	10.1	79	57	77.6	1	399	1.08	199	180
1293	5651989	508682																
1295	5652039	508769	208	434	287	62	3.69	11	675	10	25	31	78	1	437	0.63	57	80
1296	5652064	508812	141	349	277	47	3.27	13	777	10	27	33	78	4	514	0.37	80	116
1297	5652089	508855	173	412	360	41	4.6	11	708	10	27	33	78	1	400	0.55	87	99
1298	5652114	508899	146	327	339	40	4.09	11	492	10	12	28	78	1	386	0.46	93	89
1299	5652139	508942	107	242	266	24	3.28	13	520	10	18	25	78	1	434	0.38	73	81
1300	5652164	508985	112	275	453	51	4.45	11	442	10	16	23	78	1	332	0.39	102	76
1301	5652189	509029	82	274	427	40	3.92	11	418	10	18	26	78	1	173	0.33	102	83
1302	5652214	509072	77	294	276	32	2.74	11	367	10	8	23	78	1	263	0.27	65	76
1338	5651827	508602																
1339	5651852	508646																
1340	5651877	508689																
1341	5651902	508732																
1342	5651927	508775	202	323	230	74	3.48	13	698	10	18	30	78	1	546	0.53	64	107
1343	5651952	508819	225	347	376	54	4.18	11	692	10	28	30	78	1	567	0.6	86	80
1344	5651977	508862	184	360	328	72	3.35	13	630	10	32	27	78	1	634	0.46	79	78

### Talus Fine XRF Results

Sample ID	UTM North	UTM East	As ppm	Ba ppm	Co ppm	Cu ppm	Fe pct	Hg ppm	Mn ppm	Mo ppm	Pb ppm	Rb ppm	Sb ppm	Se ppm	Sr ppm	Ti pct	Zn ppm	Zr ppm
1345	5652002	508905	118	400	345	54	3.46	14	607	10	14	29	78	1	455	0.41	76	83
1346	5652027	508949	81	242	227	23	2.15	11	354	10	13	25	78	1	410	0.26	44	68
1347	5652052	508992	115	242	287	28	2.55	11	582	10	16	29	78	1	438	0.34	50	79
1348	5652077	509035	114	242	302	23	2.95	10	470	10	16	26	78	1	361	0.31	65	81
1349	5652102	509079	114	242	310	30	3.29	11	1143	10	17	40	78	1	311	0.36	75	79
1386	5651741	508652	846	242	424	141	5.26	11	817	10	106	51	78	1	456	0.79	209	95
1387	5651766	508696	248	359	290	63	4.04	18	807	10	30	32	78	1	553	0.75	107	90
1388	5651791	508739	181	242	288	47	3.28	11	620	10	18	20	78	1	645	0.5	53	73
1389	5651816	508782	254	242	274	54	3.95	11	790	10	32	30	78	1	505	0.57	73	70
1390	5651841	508825	220	359	354	56	3.8	11	565	10	23	21	78	4	617	0.58	67	65
1391	5651866	508869	160	323	245	71	3.33	11	586	10	25	31	78	1	498	0.42	83	96
1393	5651916	508955	265	242	334	60	3.57	14	639	10	27	31	78	1	506	0.52	82	61
1394	5651941	508999	149	242	229	51	3.88	11	594	10	24	30	78	1	373	0.5	78	72
1396	5651991	509085	135	428	359	44	4.13	17	546	10	15	23	78	1	600	0.77	73	80
1440	5651679	508746	223	426	338	68	4.72	11	836	10	36	25	78	1	611	0.97	89	89
1441	5651704	508789	141	452	250	44	3.52	11	687	10	18	23	78	5	627	0.43	58	66
1442	5651729	508832	144	242	292	40	3.51	17	562	10	14	30	78	1	498	0.47	70	65
1443	5651754	508875	194	513	444	65	4.87	12	602	12	22	27	78	1	405	0.5	101	74
1445	5651804	508962	406	242	296	51	4.39	11	615	10	23	26	78	1	567	0.5	74	63
1447	5651854	509049	151	482	248	23	3.23	11	536	10	8	21	78	1	612	0.41	64	57
1448	5651879	509092	187	242	444	82	4.95	11	800	10	24	29	78	1	426	0.6	102	77
1500	5651693	508969	174	242	325	44	3.74	11	724	10	18	20	78	1	495	0.51	78	38
1501	5651718	509012	159	242	353	38	4.48	13	721	10	25	18	78	1	511	0.69	81	90
1502	5651743	509055	149	242	309	48	3.88	15	672	10	18	19	78	1	557	0.49	71	61
1503	5651768	509099	218	289	202	39	3.25	11	631	10	14	29	78	1	519	0.32	66	45
4172	5652760	507274	74	242	433	41	4.39	11	307	10	11	28	78	1	253	0.48	83	82
4173	5652860	507274	53	242	405	47	4.67	11	237	10	14	21	78	1	224	0.56	100	91
4174	5652860	507574	94	373	747	65	7.17	28	793	10	12	34	422	6	90	0.53	163	98
4175	5652960	507274	63	242	390	28	3.36	11	292	10	12	26	78	1	247	0.41	75	77
4176	5652960	507574	49	242	321	39	3.48	17	877	10	16	32	78	1	369	0.46	92	112
4177	5653060	507274	118	377	442	58	4.39	11	528	10	16	29	78	1	315	0.52	69	80
4178	5653060	507574	64	242	261	23	3.39	11	473	10	12	34	78	1	404	0.43	71	138
4179	5653060	507874	69	242	547	41	6.43	13	540	10	12	29	78	1	292	0.48	124	108

**Appendix 3:  
Talus Fines Assay Results (pdf)**



**GOLD FIELDS**

### Appendix 3: Talus Fine Sample Au Assay Results

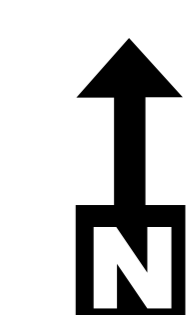
#### Legend

- Robson Occurrence Tenure
- Access\_Roads

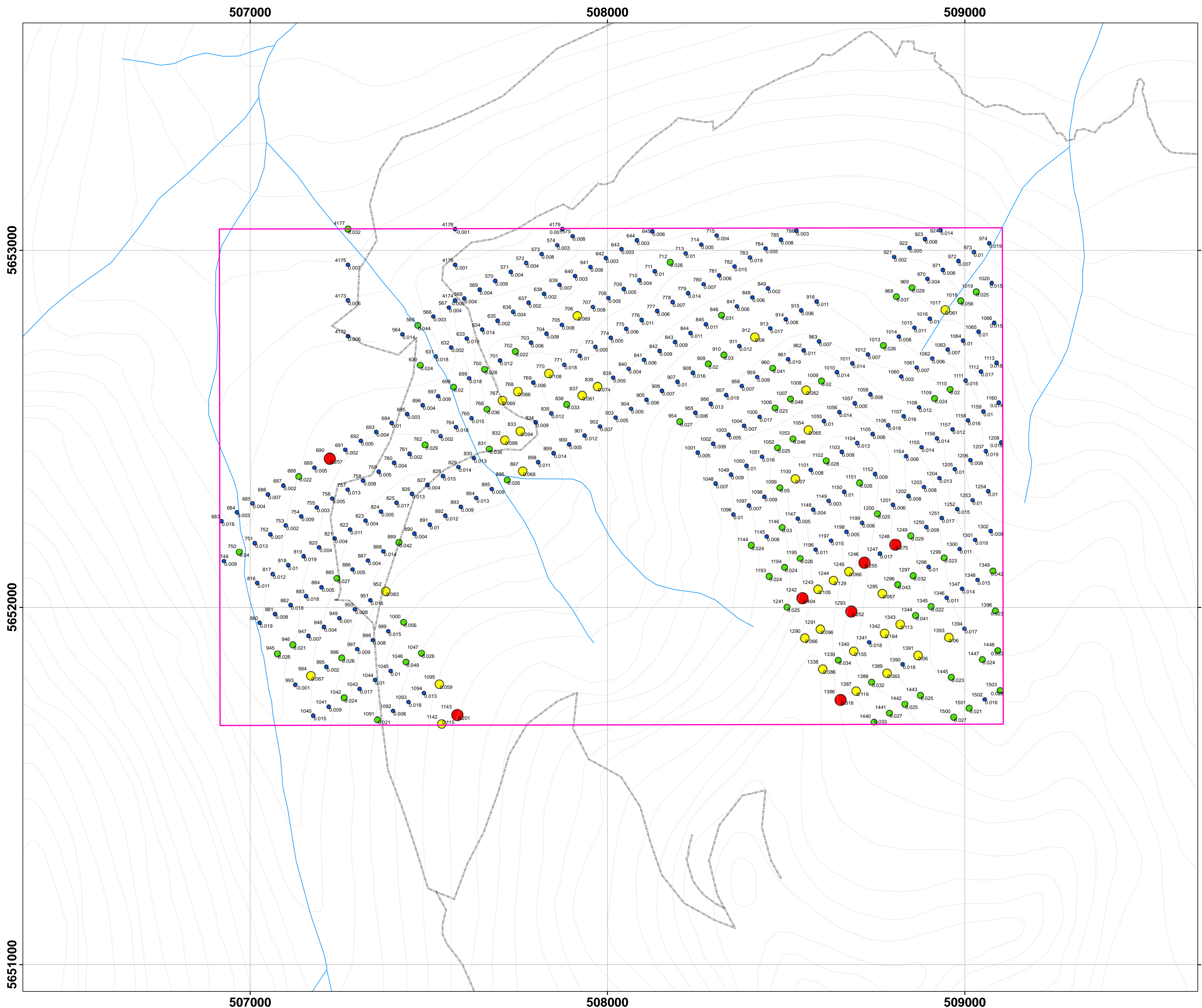
#### Talus Fine Sample

- Au\_ppm**
- 0.001000 - 0.019000
  - 0.019001 - 0.056000
  - 0.056001 - 0.164000
  - 0.164001 - 0.404000

- Sample ID**
- Au\_ppm



1:5,000







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Page: 1  
 Finalized Date: 6- AUG- 2011  
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**CERTIFICATE VA11136200**

Project: Eldorado  
 P.O. No.: ELD- 2011- 001r  
 This report is for 196 Rock samples submitted to our lab in Vancouver, BC, Canada on 14- JUL- 2011.

The following have access to data associated with this certificate:

ELEANOR BLACK  
 TWILA SKINNER

MATT ECKFELDT  
 ARNAND VAN HEERDEN

ROSS SHERLOCK

**SAMPLE PREPARATION**

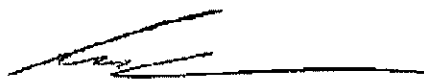
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: GFE EXPLORATION CORPORATION  
 ATTN: ELEANOR BLACK  
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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:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
564		1.28	0.014	<0.5	9.26	94	660	0.9	<2	0.48	<0.5	15	43	57	4.89	20
565		2.00	0.044	<0.5	8.05	285	570	0.9	<2	1.01	<0.5	13	40	52	4.34	20
566		1.12	0.003	<0.5	8.08	111	1270	0.9	<2	1.25	0.6	9	27	27	4.36	20
567		1.38	0.004	<0.5	8.00	65	780	0.7	<2	0.62	0.5	10	33	33	5.10	20
568		1.54	0.004	<0.5	8.95	136	680	0.9	<2	1.37	0.8	9	35	49	5.46	20
569		1.02	0.004	<0.5	7.96	134	490	0.9	<2	1.20	<0.5	13	51	19	4.18	20
570		1.06	0.009	<0.5	7.85	154	600	1.0	<2	0.96	<0.5	16	46	43	5.42	20
571		0.62	0.004	<0.5	8.30	75	560	1.1	<2	1.92	<0.5	10	31	17	4.14	20
572		0.70	0.004	<0.5	8.25	96	670	0.9	<2	1.21	<0.5	12	39	34	4.88	20
573		1.28	0.008	<0.5	8.55	95	710	0.9	<2	1.30	<0.5	11	40	40	4.80	20
574		0.86	0.003	<0.5	8.26	69	610	0.8	<2	1.45	<0.5	11	38	33	4.61	20
575		0.74	0.008	0.6	7.98	47	460	0.9	2	1.89	<0.5	14	55	23	4.49	20
575B		0.76	0.003	<0.5	8.21	46	540	0.9	<2	1.78	0.7	19	46	30	4.45	20
576		0.74	0.004	<0.5	8.63	78	620	0.9	<2	1.35	<0.5	13	40	35	4.86	20
577		0.96	0.002	<0.5	8.54	144	520	0.8	<2	1.69	<0.5	12	39	43	4.77	20
578		0.88	0.009	<0.5	8.61	68	670	0.8	<2	1.34	0.5	8	40	41	5.09	20
579		1.12	0.012	0.5	9.09	92	620	0.9	<2	1.71	0.7	14	36	72	6.40	20
580		0.92	0.002	<0.5	8.20	63	550	1.0	<2	2.06	<0.5	12	31	30	4.48	20
630		0.96	0.024	<0.5	8.55	307	500	1.0	<2	1.87	<0.5	11	37	36	3.97	20
631		0.80	0.018	<0.5	8.13	207	530	0.9	<2	1.80	<0.5	11	36	37	3.73	20
632		0.86	0.002	<0.5	8.17	83	510	1.1	<2	1.67	<0.5	11	31	25	3.97	20
633		0.96	0.019	<0.5	8.37	416	520	1.0	<2	1.00	<0.5	14	49	31	4.54	20
634		0.98	0.014	<0.5	8.50	239	590	1.1	<2	1.04	<0.5	13	38	30	4.82	20
635		1.10	0.002	<0.5	8.59	98	730	1.0	<2	1.28	<0.5	14	39	32	4.84	20
635A		0.14	0.442	<0.5	5.81	73	530	0.7	<2	2.43	<0.5	8	45	51	3.60	10
636		0.76	0.004	<0.5	8.46	72	570	1.1	2	1.53	<0.5	13	34	23	4.65	20
637		1.04	0.002	0.5	8.08	43	560	1.2	<2	2.11	<0.5	9	18	12	3.35	20
638		0.92	0.002	<0.5	8.45	72	520	1.0	<2	1.74	<0.5	11	36	27	4.46	20
639		1.46	0.007	<0.5	7.98	69	540	0.9	<2	1.44	<0.5	12	42	25	4.44	20
640		0.92	0.003	<0.5	8.53	55	620	1.0	<2	1.72	0.5	13	40	25	4.58	20
641		1.06	0.008	<0.5	8.27	59	650	0.9	<2	1.82	<0.5	12	33	30	4.70	20
642		0.74	0.003	<0.5	8.26	50	520	0.9	2	1.61	0.5	8	31	26	4.10	20
643		0.58	0.003	<0.5	9.01	61	690	0.9	<2	1.46	<0.5	12	38	41	5.49	20
644		0.80	0.003	<0.5	8.46	80	650	1.0	<2	1.59	<0.5	11	32	38	4.73	20
645		1.02	0.006	<0.5	9.75	54	550	1.1	<2	0.89	<0.5	16	35	85	7.66	20
646		0.86	0.024	<0.5	9.42	73	560	0.8	<2	1.03	<0.5	14	35	115	9.06	20
647		1.10	0.008	<0.5	9.00	70	530	0.8	<2	1.17	0.5	15	35	83	7.50	20
648		0.62	0.008	<0.5	8.16	107	540	1.1	<2	1.87	<0.5	13	29	36	4.84	20
649		0.54	0.009	<0.5	8.30	111	620	1.1	2	1.75	<0.5	11	24	26	4.59	20
650		0.60	0.002	<0.5	7.82	26	600	1.3	<2	2.23	<0.5	9	11	11	3.03	20



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Page: 2 - B  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	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	
		K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sc ppm 1	Sr ppm 1	Th ppm 20	Ti % 0.01
564		1.11	10	0.80	424	1	1.15	23	400	15	0.02	14	23	238	<20	0.51
565		1.10	10	0.66	373	1	1.45	25	490	42	0.04	32	16	257	<20	0.43
566		1.38	10	0.57	677	1	1.08	16	710	7	0.03	18	21	312	<20	0.48
567		1.05	10	0.45	600	3	0.48	20	600	9	0.02	84	23	143	<20	0.53
568		1.31	20	0.78	712	7	1.15	25	710	9	0.10	43	22	218	<20	0.48
569		0.78	20	0.42	702	3	1.63	26	650	8	0.01	26	11	295	<20	0.40
570		1.00	20	0.65	640	2	1.30	29	640	11	0.03	33	16	183	<20	0.47
571		1.35	20	0.80	560	2	2.50	20	510	15	0.01	9	11	420	<20	0.39
572		1.03	20	0.72	461	3	1.72	22	470	12	0.06	17	18	236	<20	0.47
573		1.02	20	0.68	558	2	1.72	19	550	10	0.05	16	20	198	<20	0.46
574		1.05	20	0.79	485	2	1.82	21	410	14	0.05	12	18	254	<20	0.46
575		0.95	20	1.35	882	2	2.42	35	680	17	0.03	19	13	366	<20	0.42
575B		1.11	20	1.16	1570	3	2.40	41	780	24	0.03	14	14	356	<20	0.40
576		1.18	20	0.84	489	3	1.82	28	500	14	0.06	12	17	267	<20	0.46
577		0.94	20	0.89	571	3	1.73	28	410	15	0.10	13	18	266	<20	0.43
578		1.11	20	0.78	576	3	1.48	25	580	12	0.07	12	22	183	<20	0.49
579		1.33	20	1.00	851	4	1.71	27	790	15	0.09	23	23	281	<20	0.49
580		1.25	20	1.02	882	2	2.34	20	740	12	0.04	10	13	445	<20	0.36
630		1.20	20	0.70	441	2	2.41	19	830	28	0.01	17	9	491	<20	0.46
631		1.20	20	0.60	586	2	2.29	17	910	26	0.01	16	8	486	<20	0.39
632		1.26	20	0.61	880	2	1.89	19	780	13	0.02	15	12	370	<20	0.39
633		1.02	20	0.28	696	1	1.01	27	600	10	0.01	16	15	220	<20	0.41
634		1.19	20	0.40	813	2	1.25	25	490	10	0.01	23	15	250	<20	0.41
635		1.03	20	0.48	592	1	1.72	23	640	10	0.01	19	15	248	<20	0.45
635A		0.99	20	0.87	563	10	2.05	38	770	8	0.12	<5	11	249	<20	0.28
636		1.27	20	0.67	852	2	2.16	23	660	12	0.01	13	13	339	<20	0.42
637		1.52	20	0.82	587	2	2.83	11	390	14	0.01	<5	9	489	<20	0.32
638		0.97	20	0.70	510	1	1.78	23	380	11	0.02	20	16	289	<20	0.42
639		0.82	20	0.65	569	2	1.70	23	320	11	0.04	17	16	226	<20	0.42
640		1.24	20	0.70	591	2	2.18	26	630	12	0.03	7	15	344	<20	0.43
641		1.24	20	0.99	621	2	1.92	20	660	11	0.03	10	18	303	<20	0.48
642		0.97	10	0.76	583	1	1.87	16	480	7	0.02	<5	16	322	<20	0.41
643		1.26	20	0.87	563	3	1.83	24	630	15	0.06	13	20	255	<20	0.49
644		1.26	20	0.77	525	3	1.87	20	560	13	0.06	11	18	275	<20	0.46
645		1.11	20	0.88	866	2	1.08	19	440	12	0.16	26	22	159	<20	0.41
646		1.12	20	0.88	722	4	1.04	32	830	15	0.15	27	24	213	<20	0.48
647		1.06	20	0.87	866	3	1.31	27	1220	14	0.10	24	26	245	<20	0.51
648		1.34	20	0.90	986	2	2.28	21	760	18	0.02	12	11	409	<20	0.37
649		1.36	20	0.93	640	2	2.32	17	540	17	0.02	12	14	385	<20	0.41
650		1.61	20	0.89	560	2	2.98	12	320	11	0.01	<5	8	523	<20	0.31



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Page: 2 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		TI ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
564		<10	<10	186	<10	109
565		<10	<10	151	<10	110
566		<10	<10	155	20	134
567		<10	<10	180	70	146
568		<10	<10	179	10	196
569		<10	<10	118	10	122
570		<10	<10	154	20	151
571		<10	<10	108	<10	87
572		<10	<10	154	<10	120
573		<10	<10	152	<10	121
574		<10	<10	159	<10	160
575		<10	<10	136	<10	181
575B		<10	<10	136	<10	209
576		<10	<10	158	<10	149
577		<10	<10	150	<10	162
578		<10	<10	177	<10	177
579		<10	<10	193	<10	243
580		<10	<10	120	<10	134
630		<10	<10	136	<10	94
631		<10	<10	106	<10	91
632		<10	<10	119	10	103
633		<10	<10	129	10	104
634		<10	<10	138	10	105
635		<10	<10	144	<10	125
635A		<10	<10	104	<10	65
636		<10	<10	127	<10	103
637		<10	<10	81	<10	65
638		<10	<10	130	<10	106
639		<10	<10	137	<10	129
640		<10	<10	143	<10	197
641		<10	<10	151	<10	159
642		10	<10	127	<10	163
643		<10	<10	170	<10	185
644		<10	<10	152	<10	138
645		<10	<10	153	<10	108
646		<10	<10	181	<10	182
647		<10	<10	192	<10	329
648		<10	<10	99	<10	136
649		<10	<10	122	<10	93
650		<10	<10	74	<10	62



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Page: 3 - A  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
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**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %	ME- ICP61 Ga ppm
		0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
650B		0.54	0.004	<0.5	7.32	54	660	1.1	<2	1.70	<0.5	8	22	21	3.63	10
651		0.54	0.002	<0.5	7.62	37	630	1.1	<2	1.48	<0.5	8	23	23	4.07	20
683		0.86	0.018	<0.5	7.72	156	640	0.9	<2	1.99	<0.5	11	82	37	4.27	20
684		0.82	0.003	<0.5	7.71	54	630	0.9	<2	1.49	<0.5	10	34	24	4.33	20
685		0.74	0.004	<0.5	7.95	53	650	0.7	<2	0.71	0.5	11	39	37	5.18	20
685A		0.14	0.454	<0.5	5.44	59	510	0.7	<2	2.38	<0.5	8	44	49	3.54	10
686		0.92	0.007	<0.5	7.88	32	660	1.0	<2	1.64	<0.5	10	28	20	4.11	20
687		0.90	0.002	<0.5	7.63	47	750	0.9	<2	0.94	<0.5	8	31	34	4.59	20
688		0.72	0.022	<0.5	7.62	596	640	0.8	<2	1.02	<0.5	10	41	37	4.86	20
689		1.20	0.005	<0.5	7.51	97	300	0.7	<2	0.81	<0.5	12	36	36	4.58	10
690		0.64	0.257	<0.5	7.93	178	510	0.9	<2	2.10	<0.5	11	63	44	3.82	20
691		1.02	0.002	<0.5	7.49	27	590	0.7	<2	0.66	<0.5	8	39	35	5.07	20
692		0.96	0.005	0.6	7.71	35	720	0.7	<2	0.72	0.5	13	39	57	5.35	20
693		0.96	0.004	<0.5	7.82	32	650	0.8	<2	0.94	<0.5	9	34	38	4.62	20
694		1.18	0.010	<0.5	7.66	158	480	0.8	<2	1.31	<0.5	16	44	37	3.76	10
695		0.70	0.003	<0.5	8.23	52	470	0.6	<2	0.48	<0.5	9	37	39	4.49	20
696		0.94	0.004	<0.5	7.54	35	530	1.0	<2	1.34	<0.5	7	24	20	3.41	20
697		1.02	0.009	0.5	7.75	141	490	0.7	2	0.77	<0.5	8	42	43	4.45	20
698		0.92	0.020	<0.5	7.80	290	430	0.8	<2	1.91	<0.5	13	38	36	3.90	20
699		0.62	0.018	<0.5	8.21	253	580	0.9	<2	1.47	<0.5	13	48	33	4.77	20
700		1.22	0.028	<0.5	8.71	155	580	0.9	<2	1.99	<0.5	13	39	44	5.31	20
700B		1.06	0.014	<0.5	8.97	162	630	0.8	<2	1.60	<0.5	14	37	54	6.05	20
701		1.36	0.012	<0.5	8.77	89	830	0.9	<2	1.61	<0.5	13	32	47	5.58	20
702		0.82	0.022	<0.5	7.78	151	520	1.0	<2	1.30	<0.5	16	47	35	5.35	20
703		1.08	0.006	<0.5	8.70	172	490	0.9	<2	1.77	<0.5	18	64	37	5.86	20
704		0.84	0.008	0.5	8.62	136	530	0.9	<2	1.27	<0.5	14	53	37	5.16	20
705		0.74	0.008	<0.5	7.53	115	530	0.9	<2	1.46	<0.5	11	36	21	4.21	20
706		0.62	0.069	<0.5	7.58	85	500	1.0	<2	1.69	<0.5	10	39	20	4.02	20
707		0.66	0.008	<0.5	8.03	55	590	0.9	<2	1.49	<0.5	10	38	39	4.81	20
708		0.98	0.005	<0.5	8.60	74	670	0.8	<2	1.11	<0.5	14	43	51	5.49	20
709		0.90	0.005	<0.5	8.57	61	680	0.9	<2	0.75	<0.5	24	29	60	5.53	20
710		1.02	0.004	<0.5	8.01	51	720	0.9	<2	1.04	<0.5	14	32	45	5.23	20
710A		0.14	0.448	<0.5	5.30	55	490	0.7	<2	2.30	<0.5	7	49	47	3.43	10
711		0.72	0.010	<0.5	8.07	103	610	0.8	<2	0.85	<0.5	14	40	60	6.17	20
712		0.84	0.026	<0.5	8.13	275	520	1.1	<2	0.98	<0.5	17	34	64	6.59	20
713		0.76	0.010	0.6	8.54	144	630	0.9	<2	1.30	0.6	18	32	69	6.21	20
714		0.70	0.005	<0.5	9.05	102	850	0.9	<2	0.96	<0.5	13	36	52	6.31	20
715		0.94	0.004	<0.5	9.54	96	620	0.8	<2	0.39	<0.5	16	35	51	6.01	20
716		0.68	0.005	<0.5	8.44	68	470	1.0	<2	1.57	<0.5	13	27	44	5.55	20
717		0.66	0.004	<0.5	8.56	41	970	0.9	<2	1.28	<0.5	11	28	35	4.89	20



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Page: 3 - B  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	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
		K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sc ppm 1	Sr ppm 1	Th ppm 20	Ti % 0.01
650B		1.30	20	0.88	567	3	2.35	15	390	11	0.02	6	10	409	<20	0.33
651		1.31	20	0.80	552	6	2.05	15	480	8	0.03	9	13	331	<20	0.36
683		1.02	20	1.15	775	3	2.17	50	980	7	0.05	10	16	365	<20	0.41
684		1.06	20	0.80	590	5	2.20	20	730	7	0.04	<5	15	325	<20	0.42
685		0.88	20	0.80	488	4	1.52	25	1070	3	0.05	<5	19	221	<20	0.45
685A		0.94	20	0.86	558	11	2.00	37	770	<2	0.12	<5	11	240	<20	0.28
686		1.22	20	0.84	815	4	2.39	18	850	6	0.01	<5	13	408	<20	0.40
687		1.08	20	0.81	536	4	2.03	19	920	7	0.02	<5	17	254	<20	0.43
688		0.98	20	0.74	491	4	1.92	22	720	9	0.04	<5	15	290	<20	0.42
689		0.83	20	0.80	433	3	1.45	18	560	7	0.01	7	13	280	<20	0.37
690		0.97	20	1.02	395	3	2.48	30	640	10	0.01	6	11	453	<20	0.41
691		0.80	20	0.82	418	4	1.68	19	770	5	0.02	<5	17	234	<20	0.41
692		0.74	20	0.89	715	3	1.52	23	590	6	0.03	<5	23	232	<20	0.41
693		0.90	20	0.86	417	4	1.91	20	630	5	0.02	<5	17	292	<20	0.40
694		0.91	20	0.75	481	5	1.64	21	570	8	0.04	5	17	277	<20	0.41
695		0.89	20	0.68	319	4	1.29	17	1010	7	0.03	<5	18	221	<20	0.48
696		1.27	20	0.75	392	4	2.32	13	600	8	0.01	<5	11	378	<20	0.39
697		0.93	20	0.70	298	4	1.51	21	720	12	0.03	8	15	245	<20	0.44
698		0.98	20	0.64	907	3	2.11	15	1060	25	0.02	19	8	527	<20	0.42
699		1.11	20	0.74	664	3	1.32	27	1180	11	0.07	18	17	263	<20	0.44
700		1.05	20	0.76	635	4	0.89	23	790	3	0.07	28	22	203	<20	0.47
700B		0.98	20	0.76	640	3	0.67	26	730	7	0.05	22	23	155	<20	0.45
701		1.03	20	0.74	604	4	0.94	23	610	5	0.03	10	21	219	<20	0.43
702		0.97	20	0.70	764	3	1.60	36	610	8	0.02	11	14	272	<20	0.43
703		0.72	20	1.10	918	3	2.39	41	730	8	0.01	10	17	320	<20	0.49
704		0.94	10	0.94	655	<1	1.99	27	820	7	<0.01	11	17	253	<20	0.45
705		1.10	10	0.73	463	1	2.06	20	590	7	0.06	7	13	306	<20	0.40
706		1.04	20	0.77	463	3	2.19	22	470	8	0.03	7	11	346	<20	0.39
707		1.03	20	0.73	460	4	1.69	20	500	6	0.07	6	18	252	<20	0.44
708		1.09	20	0.77	456	4	1.20	26	530	5	0.10	7	23	160	<20	0.50
709		1.13	20	0.72	738	7	1.19	26	580	7	0.03	13	19	139	<20	0.41
710		1.20	20	0.84	613	5	1.80	22	600	7	0.07	15	20	191	<20	0.44
710A		0.90	20	0.83	540	11	1.91	39	740	4	0.11	<5	11	231	<20	0.27
711		0.97	20	0.71	498	4	1.14	25	540	12	0.08	16	21	134	<20	0.46
712		1.02	20	0.79	797	5	1.30	27	680	12	0.08	33	16	222	<20	0.38
713		0.98	20	0.78	990	4	1.24	24	720	13	0.11	33	22	184	<20	0.43
714		1.05	20	0.91	913	<1	1.12	20	720	12	0.05	16	23	171	<20	0.48
715		0.96	20	0.58	909	<1	0.61	19	510	12	0.03	19	25	87	<20	0.50
716		1.01	20	0.96	864	1	1.79	19	940	12	0.05	14	17	323	<20	0.41
717		1.35	20	0.79	804	3	1.49	15	630	15	0.05	10	18	278	<20	0.43



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Page: 3 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
650B		<10	10	87	<10	77
651		<10	10	108	<10	88
683		<10	10	136	<10	120
684		<10	10	144	<10	110
685		<10	10	163	<10	149
685A		<10	10	103	<10	63
686		<10	10	122	<10	112
687		<10	10	147	<10	138
688		<10	10	148	<10	112
689		<10	<10	129	<10	81
690		<10	10	115	<10	84
691		<10	10	150	<10	120
692		<10	<10	162	<10	144
693		<10	10	145	<10	107
694		<10	10	120	<10	88
695		<10	10	157	<10	102
696		<10	10	107	<10	68
697		<10	<10	137	<10	96
698		<10	10	119	<10	92
699		<10	<10	140	10	128
700		<10	<10	163	10	69
700B		<10	<10	158	10	82
701		<10	<10	148	10	64
702		<10	10	135	10	81
703		<10	10	145	<10	98
704		10	<10	142	<10	132
705		<10	<10	118	<10	83
706		<10	10	108	<10	96
707		<10	<10	150	<10	145
708		<10	<10	184	<10	146
709		<10	<10	130	<10	136
710		<10	10	161	<10	201
710A		<10	10	98	<10	61
711		<10	<10	171	<10	185
712		<10	<10	120	<10	184
713		<10	<10	143	<10	209
714		<10	<10	145	<10	160
715		<10	<10	159	<10	166
716		<10	<10	108	<10	140
717		<10	<10	139	<10	112



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Page: 4 - A  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %	ME- ICP61 Ga ppm
		0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
749		0.74	0.009	<0.5	8.17	73	630	0.8	<2	1.13	<0.5	11	30	44	5.23	20
750		0.66	0.040	<0.5	7.79	274	500	0.8	<2	2.03	0.5	14	88	32	4.82	20
750B		0.78	0.012	<0.5	7.51	97	560	0.9	<2	1.91	0.5	13	53	30	4.63	20
751		0.90	0.013	<0.5	7.92	112	600	0.8	<2	1.49	0.5	14	56	42	4.67	20
752		0.88	0.007	<0.5	7.94	76	630	0.8	<2	1.01	0.7	11	37	39	5.06	20
753		1.08	0.002	<0.5	7.76	47	760	0.8	<2	0.69	<0.5	10	31	48	5.04	20
754		0.68	0.009	<0.5	7.81	74	620	0.8	<2	1.24	<0.5	10	50	31	4.81	20
755		0.84	0.003	<0.5	8.01	49	710	0.8	<2	0.85	<0.5	10	35	37	5.28	20
756		0.64	0.005	<0.5	8.02	78	390	0.8	<2	1.00	<0.5	16	43	40	5.04	20
757		0.82	0.013	<0.5	7.72	119	500	0.9	<2	1.71	<0.5	10	55	25	3.99	20
758		0.72	0.008	0.5	7.66	177	560	1.1	<2	2.41	1.2	13	42	27	3.40	20
759		0.86	0.005	<0.5	7.66	55	530	1.1	<2	2.26	<0.5	8	25	14	3.30	20
760		0.42	0.004	<0.5	7.55	28	510	1.0	<2	2.21	<0.5	8	21	11	3.26	20
760A		0.14	0.463	<0.5	5.41	58	510	0.7	<2	2.39	0.5	7	42	48	3.58	10
761		0.76	0.002	<0.5	7.60	13	570	1.2	<2	2.45	<0.5	7	14	6	2.80	20
762		0.68	0.029	<0.5	8.03	118	430	0.7	<2	1.39	<0.5	7	39	37	5.13	20
763		0.80	0.002	<0.5	7.54	16	570	1.2	<2	2.24	<0.5	7	14	7	2.96	20
764		0.62	0.016	<0.5	7.91	146	580	1.0	<2	1.47	<0.5	7	32	28	3.90	20
765		0.74	0.015	0.5	8.04	104	500	0.8	<2	1.24	<0.5	7	36	33	4.41	20
766		0.70	0.036	<0.5	7.63	351	500	0.9	<2	2.15	0.7	14	38	38	4.78	20
767		1.18	0.069	<0.5	8.34	367	550	0.9	<2	2.04	<0.5	14	50	56	5.86	20
768		1.26	0.066	0.8	8.64	507	660	0.8	<2	1.27	0.6	8	41	45	5.67	20
769		0.86	0.006	<0.5	8.21	251	450	1.0	<2	1.31	<0.5	13	39	24	4.65	20
770		0.80	0.108	<0.5	8.06	1470	430	0.9	<2	1.22	<0.5	13	56	23	4.65	20
771		0.94	0.018	<0.5	8.15	85	470	0.8	<2	2.26	<0.5	16	78	38	5.21	20
772		0.70	0.010	<0.5	8.20	74	540	1.1	<2	2.19	<0.5	9	25	20	3.80	20
773		0.94	0.009	<0.5	8.10	112	670	0.9	<2	1.75	<0.5	9	35	20	4.21	20
774		0.98	0.005	<0.5	7.75	42	570	1.0	<2	1.99	<0.5	8	23	18	3.45	20
775		0.84	0.006	<0.5	8.94	107	640	0.7	<2	1.17	<0.5	13	41	53	5.32	20
775B		0.98	0.004	<0.5	8.19	71	610	1.0	<2	2.04	<0.5	9	29	23	3.92	20
776		1.22	0.011	<0.5	8.64	64	620	0.7	<2	0.89	<0.5	15	41	66	5.79	20
777		0.84	0.006	<0.5	8.48	67	550	0.8	<2	1.87	<0.5	9	33	68	5.54	20
778		0.72	0.007	<0.5	8.23	103	570	1.0	<2	1.79	<0.5	11	28	41	4.69	20
779		0.94	0.014	<0.5	8.68	170	640	0.9	<2	1.11	0.5	15	32	62	6.06	20
780		1.16	0.007	0.7	7.94	61	650	0.8	<2	1.47	0.6	10	29	54	5.24	20
781		0.86	0.006	0.5	8.00	131	710	0.9	<2	1.45	0.8	17	34	89	6.83	20
782		1.16	0.015	0.7	8.97	173	730	0.9	<2	1.23	0.6	24	36	114	7.81	20
821		0.76	0.004	0.5	7.31	54	500	1.0	<2	1.98	<0.5	7	29	13	3.03	20
822		0.66	0.011	0.5	7.51	151	520	0.9	<2	2.10	<0.5	9	77	25	3.44	20
823		0.80	0.004	<0.5	7.43	38	560	1.1	<2	2.11	<0.5	8	25	12	3.08	20





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Page: 4 - B  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	ME- ICP61 K % 0.01	ME- ICP61 La ppm 10	ME- ICP61 Mg % 0.01	ME- ICP61 Mn ppm 5	ME- ICP61 Mo ppm 1	ME- ICP61 Na % 0.01	ME- ICP61 Ni ppm 1	ME- ICP61 P ppm 10	ME- ICP61 Pb ppm 2	ME- ICP61 S % 0.01	ME- ICP61 Sb ppm 5	ME- ICP61 Sc ppm 1	ME- ICP61 Sr ppm 1	ME- ICP61 Th ppm 20	ME- ICP61 Ti % 0.01
749		0.98	20	0.81	522	3	1.81	17	770	4	0.08	12	20	256	<20	0.43
750		0.89	20	1.10	726	2	2.20	32	870	10	0.03	13	14	417	<20	0.45
750B		1.00	20	0.92	1210	3	1.91	21	1190	8	0.12	5	16	328	<20	0.39
751		0.89	20	0.98	878	1	1.96	31	740	9	0.03	9	17	334	<20	0.40
752		0.93	20	0.84	570	2	1.78	25	870	11	0.03	<5	18	265	<20	0.43
753		0.89	20	0.73	537	3	1.61	17	640	5	0.02	8	21	192	<20	0.43
754		0.97	20	0.92	422	2	2.00	24	870	12	0.01	5	16	318	<20	0.43
755		0.99	20	0.74	654	2	1.86	19	920	6	0.03	5	19	241	<20	0.46
756		0.86	20	0.81	562	1	1.62	36	920	5	0.02	<5	14	314	<20	0.40
757		0.99	20	0.84	397	1	2.31	22	830	11	0.01	<5	11	424	<20	0.38
758		1.25	20	0.87	1470	4	2.65	34	770	12	0.03	6	11	501	<20	0.30
759		1.34	20	0.88	525	1	2.76	14	670	9	0.03	<5	10	515	<20	0.32
760		1.36	20	0.77	562	<1	2.60	12	750	8	0.02	<5	9	506	<20	0.32
760A		0.93	20	0.85	558	9	1.95	33	770	<2	0.12	<5	12	246	<20	0.27
761		1.57	20	0.84	565	1	3.04	7	450	7	0.01	<5	8	561	<20	0.29
762		0.88	20	0.74	291	2	1.60	14	780	8	0.11	9	17	272	<20	0.41
763		1.54	20	0.82	530	<1	2.92	8	640	8	0.01	<5	8	520	<20	0.29
764		1.24	20	0.69	394	1	2.16	16	560	16	0.03	13	12	371	<20	0.37
765		0.99	20	0.74	389	2	1.76	13	1060	14	0.03	11	15	315	<20	0.41
766		1.06	20	0.87	848	1	2.22	20	1020	27	0.12	22	11	453	<20	0.33
767		1.04	20	1.02	532	1	2.29	23	860	7	0.28	8	15	412	<20	0.40
768		1.41	20	0.55	400	<1	1.19	17	620	105	0.16	72	22	209	<20	0.42
769		1.00	20	0.54	432	<1	1.59	24	570	6	0.01	13	12	307	<20	0.40
770		1.29	20	0.44	639	<1	1.28	21	560	4	0.05	31	13	248	<20	0.41
771		1.17	20	1.77	656	<1	2.40	24	910	3	0.03	5	14	448	<20	0.46
772		1.30	20	0.86	511	1	2.71	11	600	12	0.05	5	10	514	<20	0.32
773		1.21	20	0.74	561	1	2.15	16	600	11	0.03	8	14	364	<20	0.39
774		1.30	20	0.80	543	2	2.37	12	420	22	0.02	<5	12	425	<20	0.32
775		1.05	20	0.62	401	1	0.83	22	670	9	0.05	8	25	129	<20	0.52
775B		1.35	20	0.78	558	1	2.15	17	590	9	0.03	<5	15	392	<20	0.38
776		0.95	20	0.68	410	1	0.75	23	630	20	0.06	8	24	119	<20	0.47
777		1.05	20	0.76	598	1	1.57	14	960	7	0.13	12	22	266	<20	0.44
778		1.15	10	0.80	674	3	2.25	16	660	13	0.06	16	15	354	<20	0.41
779		1.05	10	0.77	740	2	1.31	19	670	15	0.09	26	20	191	<20	0.43
780		0.95	10	0.68	713	2	1.58	12	590	10	0.09	22	21	187	<20	0.45
781		1.08	10	0.83	918	2	1.20	20	980	33	0.08	27	19	219	<20	0.47
782		1.05	10	0.88	896	2	1.11	28	1020	34	0.11	31	21	252	<20	0.44
821		1.25	10	0.78	478	2	2.65	13	630	12	0.01	<5	7	465	<20	0.33
822		1.04	10	0.97	390	2	2.54	32	620	14	0.01	<5	9	456	<20	0.40
823		1.41	10	0.81	522	2	2.80	13	490	12	0.01	<5	8	488	<20	0.34



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Page: 4 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		TI ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
749		<10	<10	152	<10	115
750		<10	<10	127	<10	109
750B		<10	<10	122	<10	95
751		<10	<10	136	<10	126
752		<10	<10	147	<10	120
753		<10	<10	154	<10	123
754		<10	<10	140	<10	108
755		<10	<10	155	<10	143
756		<10	<10	133	<10	143
757		<10	<10	109	<10	88
758		<10	<10	82	<10	67
759		<10	<10	89	<10	65
760		<10	10	86	<10	62
760A		<10	<10	102	<10	63
761		<10	<10	68	<10	49
762		<10	<10	139	<10	63
763		<10	<10	71	<10	50
764		<10	<10	105	<10	72
765		<10	<10	128	<10	92
766		<10	<10	97	<10	99
767		<10	<10	127	<10	61
768		<10	<10	150	<10	117
769		<10	<10	121	<10	69
770		<10	<10	122	10	74
771		<10	<10	140	<10	86
772		<10	<10	84	<10	63
773		<10	<10	118	<10	86
774		<10	<10	94	<10	92
775		<10	<10	169	<10	138
775B		<10	<10	108	<10	95
776		<10	<10	162	<10	156
777		<10	<10	141	<10	117
778		<10	<10	126	<10	157
779		<10	<10	147	<10	180
780		<10	<10	162	<10	159
781		<10	<10	156	<10	204
782		<10	<10	145	<10	194
821		<10	<10	85	<10	58
822		<10	<10	104	<10	71
823		<10	<10	88	<10	59



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Page: 5 - A  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %	ME- ICP61 Ga ppm
824		0.52	0.005	<0.5	7.56	238	520	1.1	<2	2.17	<0.5	8	28	22	2.96	20
825		0.78	0.017	<0.5	7.51	71	520	1.1	<2	2.08	<0.5	8	29	25	3.09	20
825B		0.54	0.009	<0.5	7.35	56	500	1.0	<2	2.13	<0.5	6	27	17	2.97	20
826		0.50	0.013	0.5	6.95	82	460	0.9	<2	1.78	<0.5	6	34	21	3.07	20
827		0.72	0.004	<0.5	7.02	14	550	1.2	<2	2.11	<0.5	7	13	7	2.60	20
828		0.62	0.015	0.6	7.17	47	520	1.1	<2	1.88	<0.5	6	25	13	2.80	20
829		0.70	0.014	0.6	7.58	70	500	1.1	<2	1.89	<0.5	8	26	16	3.39	20
830		0.58	0.013	0.6	7.21	62	490	0.9	<2	1.72	<0.5	7	33	21	3.34	20
831		0.96	0.036	<0.5	7.70	189	510	0.8	2	1.19	<0.5	11	40	47	4.23	20
832		0.78	0.088	0.5	7.84	401	470	0.9	<2	1.93	<0.5	11	35	54	3.28	20
833		0.62	0.094	<0.5	7.48	443	500	0.9	<2	1.79	1.3	13	48	78	3.65	20
834		1.04	0.009	<0.5	7.93	205	780	1.1	<2	1.14	<0.5	11	37	38	5.67	20
835		1.08	0.012	<0.5	7.97	220	600	1.1	2	0.70	<0.5	10	35	48	5.55	20
835A		0.14	0.439	<0.5	5.30	60	490	0.6	<2	2.26	<0.5	7	43	47	3.31	10
836		1.12	0.033	<0.5	7.86	324	590	1.0	<2	0.97	<0.5	15	38	35	4.49	20
837		0.98	0.061	<0.5	8.31	132	470	0.9	<2	1.18	0.5	34	54	74	5.75	20
838		1.02	0.074	0.6	8.18	518	650	0.8	<2	0.92	<0.5	14	40	43	4.61	20
839		1.00	0.005	0.5	8.10	35	580	0.9	<2	2.14	1.1	10	25	42	4.77	20
840		0.84	0.004	<0.5	7.92	79	680	0.8	<2	1.69	<0.5	10	36	43	4.65	20
841		0.58	0.006	<0.5	7.20	86	500	1.0	<2	1.69	<0.5	9	24	31	3.87	20
842		0.58	0.009	0.6	7.57	117	500	0.9	<2	1.51	<0.5	12	38	46	5.03	20
843		1.26	0.009	0.6	8.67	72	490	1.0	<2	1.14	<0.5	13	30	73	8.39	20
844		1.14	0.011	0.5	7.76	157	580	0.9	<2	1.27	<0.5	14	34	60	5.81	20
845		1.22	0.011	<0.5	7.82	107	850	0.9	<2	1.00	0.9	9	32	50	5.07	20
846		0.64	0.031	<0.5	8.25	462	600	1.0	<2	0.73	0.6	16	33	64	6.04	20
847		0.76	0.006	0.5	8.59	167	750	0.8	<2	1.33	<0.5	8	30	55	5.76	20
848		0.90	0.006	0.5	8.58	79	700	0.8	<2	1.71	0.6	12	27	80	7.15	20
849		0.78	0.002	<0.5	8.51	24	590	0.7	<2	1.40	<0.5	11	29	129	8.94	20
885		0.96	0.027	<0.5	7.62	196	480	0.9	<2	2.07	<0.5	15	71	47	4.12	20
885A		0.14	0.438	<0.5	5.24	61	490	0.7	<2	2.32	<0.5	8	42	48	3.43	10
886		0.62	0.005	<0.5	7.35	26	510	1.1	<2	2.27	<0.5	8	26	9	2.77	20
887		0.74	0.004	<0.5	7.26	38	510	1.0	<2	2.17	<0.5	8	30	11	2.98	20
888		0.68	0.014	0.5	7.68	384	480	0.8	<2	1.42	<0.5	7	47	40	3.96	20
889		0.90	0.042	<0.5	7.61	411	480	0.9	<2	1.79	<0.5	9	46	55	3.36	20
890		0.78	0.004	<0.5	8.19	260	600	1.3	2	2.59	<0.5	8	15	14	2.92	20
891		1.46	0.010	<0.5	7.27	96	510	1.1	<2	2.41	<0.5	8	23	15	2.66	20
892		1.52	0.012	<0.5	7.20	125	500	1.0	<2	1.78	<0.5	5	30	20	2.99	20
893		1.16	0.009	<0.5	7.15	91	510	1.0	<2	1.78	<0.5	6	27	19	3.05	20
894		1.86	0.013	<0.5	7.74	153	480	0.8	<2	0.74	<0.5	11	41	40	5.14	20
895		1.14	0.009	<0.5	7.46	64	580	1.1	<2	1.86	<0.5	7	24	19	3.14	20



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Page: 5 - B  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	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	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
824		1.32	10	0.81	471	3	2.69	13	420	12	0.02	18	8	480	<20	0.33
825		1.26	10	0.80	427	4	2.63	13	520	12	0.02	<5	9	431	<20	0.36
825B		1.23	10	0.73	428	3	2.62	10	420	13	0.02	5	8	455	<20	0.34
826		1.04	10	0.62	349	3	2.14	13	630	11	0.02	<5	9	353	<20	0.37
827		1.57	10	0.81	525	1	2.95	9	480	10	0.01	<5	6	482	<20	0.29
828		1.39	10	0.74	443	2	2.65	10	510	14	0.01	5	8	439	<20	0.34
829		1.31	10	0.78	428	2	2.60	11	410	14	0.02	7	9	449	<20	0.37
830		1.18	10	0.74	386	2	2.20	12	550	14	0.03	7	10	388	<20	0.38
831		1.05	10	0.75	410	2	1.74	19	560	16	0.05	16	14	283	<20	0.40
832		1.17	10	0.52	517	1	2.09	16	790	33	0.05	29	8	497	<20	0.37
833		1.10	10	0.63	370	4	1.62	25	830	51	0.11	92	14	315	<20	0.38
834		1.19	10	0.46	491	1	2.14	22	770	9	0.16	10	13	263	<20	0.37
835		1.02	20	0.20	349	2	1.96	18	710	6	0.23	10	15	177	<20	0.39
835A		0.89	10	0.81	535	8	1.92	33	730	6	0.11	<5	10	229	<20	0.27
836		1.18	10	0.40	682	2	1.29	26	530	9	0.08	19	15	207	<20	0.42
837		1.01	10	0.60	859	4	1.55	68	700	8	0.14	6	17	288	<20	0.41
838		1.14	10	0.46	611	1	1.18	21	560	24	0.05	58	17	163	<20	0.44
839		0.82	10	0.70	1175	3	1.46	16	720	10	0.05	10	20	217	<20	0.39
840		1.22	10	0.82	1005	2	1.47	14	860	11	0.05	8	21	206	<20	0.45
841		1.13	10	0.76	682	2	1.98	14	660	14	0.04	11	11	358	<20	0.31
842		0.96	10	0.79	745	3	1.60	18	840	14	0.08	14	14	291	<20	0.39
843		0.89	10	0.68	594	3	1.08	16	970	9	0.19	15	21	184	<20	0.42
844		1.00	10	0.71	689	2	1.33	18	730	12	0.12	22	18	198	<20	0.44
845		1.04	10	0.75	888	2	1.46	18	450	13	0.06	21	19	209	<20	0.41
846		1.02	10	0.58	944	3	0.75	20	660	15	0.13	54	20	145	<20	0.40
847		1.09	10	0.77	647	2	1.31	13	620	18	0.14	18	20	204	<20	0.43
848		1.04	10	0.86	896	1	1.35	17	1000	32	0.13	22	20	284	<20	0.44
849		0.92	10	0.76	775	2	1.07	16	700	27	0.31	17	23	186	<20	0.47
885		0.88	20	1.12	521	1	2.36	33	630	9	0.01	6	11	444	<20	0.42
885A		0.92	20	0.83	528	9	1.93	32	750	4	0.11	<5	10	239	<20	0.27
886		1.36	20	0.85	454	2	2.83	12	340	7	0.01	<5	7	514	<20	0.32
887		1.30	20	0.84	476	2	2.69	13	340	10	0.01	7	8	488	<20	0.35
888		0.99	20	0.77	349	3	1.97	22	530	15	0.03	15	13	334	<20	0.44
889		1.02	20	0.79	345	2	2.22	22	480	17	0.03	21	11	387	<20	0.36
890		1.69	20	0.94	665	1	3.22	11	420	10	0.01	14	7	571	<20	0.31
891		1.37	20	0.82	430	2	2.91	10	310	10	0.01	7	7	521	<20	0.31
892		1.21	20	0.65	313	2	2.40	10	560	13	0.01	8	8	416	<20	0.32
893		1.26	20	0.68	373	2	2.45	11	530	9	0.01	7	8	439	<20	0.32
894		0.96	20	0.73	352	2	1.42	20	890	7	0.02	9	14	247	<20	0.43
895		1.46	20	0.82	529	1	2.66	11	500	11	0.01	5	9	442	<20	0.36



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Page: 5 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Tl	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
824		<10	<10	81	<10	70
825		<10	<10	96	<10	54
825B		<10	<10	86	<10	50
826		<10	<10	90	<10	59
827		<10	<10	66	<10	48
828		<10	<10	77	<10	52
829		<10	<10	96	<10	54
830		<10	<10	101	<10	57
831		<10	<10	129	<10	87
832		<10	<10	104	<10	83
833		<10	<10	117	<10	158
834		<10	<10	126	<10	87
835		<10	<10	131	<10	86
835A		<10	<10	98	<10	60
836		<10	<10	134	10	90
837		<10	<10	146	<10	97
838		<10	<10	151	<10	92
839		<10	<10	137	<10	180
840		<10	<10	138	<10	151
841		<10	<10	88	<10	107
842		<10	<10	120	<10	107
843		<10	<10	156	<10	138
844		<10	<10	155	<10	162
845		<10	<10	147	<10	249
846		<10	<10	136	<10	222
847		<10	<10	143	<10	209
848		<10	<10	135	<10	179
849		<10	<10	156	<10	143
885		<10	10	128	<10	90
885A		<10	10	101	<10	61
886		<10	20	78	<10	52
887		<10	20	84	<10	62
888		<10	10	126	<10	92
889		<10	10	103	<10	66
890		<10	20	68	<10	59
891		<10	20	71	<10	58
892		<10	10	87	<10	71
893		<10	20	85	<10	69
894		<10	10	143	<10	168
895		<10	10	85	<10	71



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Page: 6 - A  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
896		1.44	0.026	<0.5	7.53	157	540	0.9	<2	1.17	<0.5	10	36	37	4.45	20
897		1.34	0.068	<0.5	8.12	499	490	1.0	<2	2.32	<0.5	14	39	66	4.09	20
898		1.26	0.011	<0.5	7.53	135	510	1.1	<2	2.03	<0.5	9	21	30	4.36	20
899		1.26	0.014	<0.5	7.74	181	480	1.1	<2	1.88	<0.5	11	26	40	5.35	20
900		1.24	0.005	<0.5	7.26	49	520	1.2	2	2.19	<0.5	8	18	17	3.39	20
900B		1.30	0.019	<0.5	8.13	161	400	1.2	<2	1.17	<0.5	11	31	87	9.55	20
901		1.22	0.012	<0.5	7.89	91	580	1.1	2	1.92	<0.5	11	26	28	3.97	20
902		1.54	0.007	<0.5	7.45	54	540	1.1	<2	2.12	<0.5	10	24	19	3.44	20
903		1.28	0.005	<0.5	7.95	99	490	1.0	2	1.59	<0.5	12	28	28	4.53	20
904		1.58	0.005	<0.5	8.11	109	630	1.0	<2	1.69	<0.5	10	32	42	5.31	20
905		2.02	0.006	<0.5	7.80	101	590	1.1	2	1.83	<0.5	10	24	41	4.71	20
906		1.56	0.007	0.5	7.91	48	500	1.0	<2	1.79	<0.5	15	27	88	6.84	20
907		1.52	0.010	<0.5	8.17	100	480	1.0	<2	1.22	<0.5	11	31	149	10.45	20
908		1.64	0.016	<0.5	8.57	246	450	1.2	<2	0.99	<0.5	22	32	92	9.25	20
909		1.58	0.020	<0.5	7.98	282	490	1.1	2	1.46	<0.5	15	33	48	5.86	20
910		1.18	0.030	<0.5	8.29	370	530	1.1	<2	0.84	0.5	19	32	75	7.31	20
910A		0.14	0.447	<0.5	5.18	58	490	0.7	<2	2.29	<0.5	8	42	47	3.41	10
911		1.46	0.012	<0.5	9.01	216	490	1.0	<2	0.95	0.7	25	26	85	7.93	20
912		1.42	0.080	0.5	8.32	677	540	1.0	<2	0.48	0.6	23	30	92	7.06	20
913		1.78	0.017	<0.5	7.80	400	410	0.8	<2	0.70	1.1	16	28	73	6.18	20
914		1.78	0.008	<0.5	7.88	125	700	0.9	<2	0.87	0.8	14	31	57	5.70	20
915		1.42	0.006	0.5	8.13	66	740	0.8	2	0.89	1.5	13	25	57	5.35	20
916		1.18	0.011	<0.5	8.32	82	940	0.9	<2	0.74	0.5	13	32	69	6.49	20
957		1.62	0.019	<0.5	8.52	240	720	1.0	<2	0.99	<0.5	12	36	76	8.15	20
958		1.24	0.007	<0.5	8.34	53	750	0.9	<2	1.51	<0.5	12	35	65	6.19	20
959		0.84	0.009	<0.5	8.84	86	760	1.0	3	0.93	<0.5	15	34	69	7.55	20
960		0.74	0.041	<0.5	8.57	566	580	1.1	3	0.90	0.5	30	34	76	7.67	20
960A		0.14	0.429	<0.5	5.26	60	490	0.7	2	2.35	<0.5	7	44	46	3.46	10
961		1.24	0.019	<0.5	8.36	262	560	1.0	4	0.63	<0.5	12	33	60	5.82	20
962		0.68	0.011	0.6	8.10	180	910	0.9	<2	1.30	1.7	11	28	58	6.09	20
963		1.20	0.007	0.5	8.72	74	1130	0.8	3	1.13	0.6	18	30	85	5.88	20
1007		1.12	0.048	<0.5	7.94	389	780	1.0	2	0.32	0.8	11	37	51	5.02	20
1008		0.78	0.082	<0.5	7.72	891	490	0.8	2	0.35	0.5	5	37	37	5.28	20
1009		1.88	0.020	0.8	7.95	178	750	0.9	2	0.80	1.6	12	51	60	5.54	20
1010		0.90	0.014	1.0	8.30	208	920	0.9	2	1.12	1.6	11	48	89	7.05	20
1010A		0.14	0.413	<0.5	5.13	58	480	0.7	2	2.30	<0.5	7	41	45	3.40	10



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Page: 6 - B  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
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**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	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	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	20	0.01	
896		1.12	20	0.73	400	2	1.83	16	670	13	0.02	10	13	322	<20	0.41
897		1.29	20	0.74	621	1	2.58	19	910	33	0.01	25	10	543	<20	0.45
898		1.33	20	0.81	489	3	2.56	13	480	21	0.04	15	9	470	<20	0.34
899		1.26	20	0.83	587	2	2.19	19	740	22	0.08	21	10	426	<20	0.35
900		1.45	20	0.88	521	2	2.83	13	390	10	0.02	6	7	514	<20	0.31
900B		0.93	20	0.65	427	3	1.29	16	920	13	0.21	17	15	244	<20	0.34
901		1.36	20	0.81	729	2	2.37	16	610	11	0.03	8	11	444	<20	0.36
902		1.35	20	0.82	716	1	2.61	14	560	8	0.01	9	9	496	<20	0.33
903		1.13	20	0.62	623	2	1.76	21	530	10	0.01	11	12	337	<20	0.41
904		1.23	20	0.87	795	2	1.88	17	720	10	0.05	18	16	351	<20	0.40
905		1.22	20	0.88	740	1	1.99	16	590	11	0.04	15	13	397	<20	0.34
906		0.64	20	0.73	949	1	1.13	15	520	6	0.13	12	18	327	<20	0.34
907		0.98	20	0.83	623	3	1.21	23	1100	9	0.29	17	16	273	<20	0.33
908		0.90	20	0.82	813	3	1.17	29	1200	9	0.24	33	15	244	<20	0.35
909		1.05	20	0.84	995	3	1.68	21	900	12	0.10	32	12	334	<20	0.36
910		0.98	20	0.72	1060	2	1.00	24	810	11	0.13	42	17	187	<20	0.36
910A		0.91	20	0.82	525	9	1.91	31	740	4	0.11	<5	10	235	<20	0.26
911		0.79	20	0.85	1435	2	0.80	18	840	4	0.10	25	22	136	<20	0.42
912		1.08	20	0.51	1485	2	0.50	22	630	14	0.19	79	21	103	<20	0.36
913		1.02	20	0.61	1205	1	0.78	19	900	24	0.06	44	21	116	<20	0.46
914		0.92	20	0.79	1080	1	0.95	19	630	18	0.06	24	18	171	<20	0.39
915		0.75	20	0.62	1375	1	0.62	19	710	42	0.04	19	18	145	<20	0.36
916		1.02	20	0.80	766	2	0.93	22	870	23	0.06	20	20	204	<20	0.44
957		1.14	20	0.81	733	3	1.20	17	950	8	0.16	36	21	189	<20	0.41
958		0.93	10	0.78	649	2	1.53	19	680	6	0.10	14	23	211	<20	0.43
959		0.97	10	0.63	738	3	0.96	20	770	6	0.14	14	23	166	<20	0.39
960		0.98	10	0.66	2200	4	0.71	28	620	6	0.17	45	24	140	<20	0.37
960A		0.92	10	0.84	529	9	1.94	31	740	3	0.11	<5	11	238	<20	0.27
961		1.04	10	0.47	665	3	0.56	14	630	12	0.16	49	23	103	<20	0.38
962		0.99	10	0.73	992	4	1.03	15	640	31	0.12	25	22	206	<20	0.40
963		0.91	10	0.88	1025	1	1.28	21	480	12	0.08	20	24	217	<20	0.41
1007		1.30	10	0.25	593	5	0.33	20	630	7	0.14	32	23	89	<20	0.39
1008		1.32	10	0.27	248	6	0.32	9	630	12	0.51	68	22	72	<20	0.43
1009		1.11	10	0.65	836	7	1.00	23	730	20	0.12	78	24	125	<20	0.43
1010		1.17	10	0.86	771	11	1.40	19	950	32	0.24	21	24	185	<20	0.42
1010A		0.90	10	0.82	519	10	1.89	31	730	2	0.11	<5	11	232	<20	0.26



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Page: 6 - C  
 Total # Pages: 6 (A - C)  
 Finalized Date: 6- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11136200**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		TI	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
896		<10	10	131	<10	109
897		<10	10	124	10	98
898		<10	10	96	<10	68
899		<10	10	101	<10	75
900		<10	20	74	<10	55
900B		<10	10	115	<10	81
901		<10	10	104	<10	110
902		<10	10	88	<10	96
903		<10	10	126	<10	99
904		<10	10	135	<10	139
905		<10	10	110	<10	119
906		<10	10	124	<10	114
907		<10	10	121	<10	181
908		<10	10	113	<10	184
909		<10	10	102	<10	160
910		<10	<10	124	<10	201
910A		<10	10	100	<10	61
911		<10	<10	136	<10	188
912		<10	<10	132	<10	212
913		<10	<10	143	<10	276
914		<10	10	124	<10	232
915		<10	<10	108	<10	331
916		<10	10	141	<10	229
957		<10	10	159	<10	153
958		<10	10	144	<10	146
959		<10	<10	139	<10	188
960		<10	<10	137	<10	184
960A		<10	10	99	<10	60
961		<10	<10	132	<10	176
962		<10	<10	143	<10	329
963		<10	<10	143	<10	179
1007		<10	<10	146	10	167
1008		<10	<10	201	10	142
1009		<10	<10	172	<10	254
1010		<10	10	172	<10	252
1010A		<10	10	96	<10	59





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Page: 1  
 Finalized Date: 13- AUG- 2011  
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**CERTIFICATE VA11136209**

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 P.O. No.: ELD- 2011- 001r  
 This report is for 57 Rock samples submitted to our lab in Vancouver, BC, Canada on 14- JUL- 2011.  
 The following have access to data associated with this certificate:

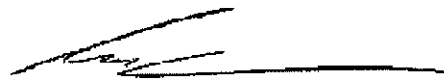
ELEANOR BLACK TWILA SKINNER	MATT ECKFELDT ARNAND VAN HEERDEN	ROSS SHERLOCK
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES

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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:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 3 (A - C)  
 Finalized Date: 13- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136209**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
1333		1.04	0.025	<0.5	6.96	517	560	1.0	<2	2.12	<0.5	10	48	232	3.08	10
1334		0.68	0.012	<0.5	7.55	178	510	1.0	<2	1.77	<0.5	12	51	30	3.42	20
1335		1.02	0.056	<0.5	8.05	572	560	1.1	<2	1.47	<0.5	12	81	82	3.87	20
1335A		0.14	0.229	2.9	7.44	26	1500	1.2	2	2.11	1.0	16	105	1795	4.64	20
1336		0.88	0.029	<0.5	7.50	225	530	0.9	<2	1.73	<0.5	9	50	29	3.37	20
1337		0.82	0.031	<0.5	7.62	198	480	1.0	<2	2.01	<0.5	11	44	118	3.28	20
1338		1.54	0.086	<0.5	7.64	263	550	1.0	<2	2.11	0.5	10	52	87	3.21	20
1339		1.58	0.034	<0.5	8.03	236	530	1.0	<2	2.43	<0.5	13	52	44	3.66	20
1340		1.02	0.155	<0.5	7.37	251	570	1.0	<2	2.09	0.7	12	59	53	3.38	20
1341		0.80	0.018	<0.5	7.46	114	510	1.1	<2	2.55	<0.5	10	31	28	3.21	20
1379		1.56	0.012	<0.5	7.65	108	530	1.1	<2	2.30	<0.5	11	44	28	3.31	20
1380		0.72	0.045	<0.5	7.51	198	470	1.0	<2	1.62	<0.5	9	48	29	3.21	20
1381		0.68	0.010	<0.5	7.48	96	520	1.1	<2	2.05	<0.5	8	32	17	3.15	20
1382		0.80	0.043	<0.5	7.93	305	560	0.9	<2	1.45	<0.5	13	82	41	3.87	20
1383		0.78	0.003	<0.5	7.74	36	560	1.3	<2	2.47	<0.5	9	14	9	2.98	20
1384		0.72	0.147	<0.5	7.64	311	570	0.9	<2	1.33	<0.5	11	70	37	3.74	20
1385		0.84	0.107	<0.5	7.51	362	510	0.9	<2	1.42	<0.5	13	74	48	3.66	20
1385A		0.14	0.449	<0.5	5.26	56	490	0.7	<2	2.30	<0.5	7	43	48	3.51	10
1432		0.82	0.042	<0.5	7.36	228	430	0.8	<2	1.56	<0.5	13	76	37	3.79	20
1433		0.56	0.052	<0.5	7.43	161	460	0.9	<2	1.69	<0.5	10	59	32	3.49	20
1434		0.66	0.018	<0.5	7.27	227	500	0.9	<2	1.66	<0.5	10	59	34	3.49	20
1435		0.54	0.032	<0.5	7.40	350	500	0.8	<2	1.32	<0.5	13	74	44	3.77	20
1435A		0.14	0.449	<0.5	5.19	56	480	0.6	<2	2.25	<0.5	7	41	46	3.43	10
1436		0.58	0.055	<0.5	7.44	621	530	0.8	<2	1.29	<0.5	14	75	45	3.93	20
1437		0.58	0.020	<0.5	7.40	198	570	0.9	<2	1.68	0.5	12	63	34	3.35	20
1438		1.32	0.052	<0.5	7.45	454	530	0.8	<2	1.13	<0.5	12	67	45	3.46	20
1487		0.88	0.042	<0.5	7.69	315	490	1.0	<2	2.18	<0.5	9	46	24	3.59	20
1488		1.06	0.031	<0.5	8.65	226	430	0.9	<2	2.54	<0.5	15	78	61	3.84	20
1489		0.68	0.025	<0.5	7.56	160	460	0.9	<2	1.86	<0.5	11	56	29	3.51	20
1490		1.34	0.010	<0.5	7.77	211	520	1.0	<2	2.43	<0.5	13	50	28	3.41	20
1491		1.04	0.009	<0.5	7.55	201	500	1.0	<2	2.41	<0.5	10	38	27	2.90	10
1492		1.04	0.015	<0.5	7.49	256	510	0.9	<2	1.55	0.5	12	68	34	3.40	20
1493		0.62	0.008	<0.5	7.62	113	510	1.1	<2	2.51	<0.5	11	35	20	3.24	20
1494		0.82	0.015	<0.5	7.56	244	510	0.9	<2	2.01	<0.5	13	52	44	3.40	20
1548		0.72	0.052	<0.5	8.12	309	390	0.8	<2	2.69	<0.5	14	81	41	3.94	20
1549		0.64	0.054	<0.5	7.94	269	360	0.8	<2	2.83	<0.5	16	90	41	4.40	20
1550		1.14	0.010	<0.5	7.93	282	460	0.9	<2	2.01	<0.5	14	61	32	3.84	20
1550B		1.26	0.106	<0.5	7.38	252	430	0.8	<2	2.04	<0.5	14	59	30	3.61	20
1551		1.26	0.024	0.5	7.73	231	500	1.0	<2	2.55	<0.5	12	45	22	3.35	20
1552		1.48	0.055	0.7	7.33	443	480	0.9	<2	1.84	0.6	13	65	43	3.49	10



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Page: 2 - B  
 Total # Pages: 3 (A - C)  
 Finalized Date: 13- AUG- 2011  
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**CERTIFICATE OF ANALYSIS VA11136209**

Sample Description	Method Analyte Units LOR	ME- ICP61 K %	ME- ICP61 La ppm	ME- ICP61 Mg %	ME- ICP61 Mn ppm	ME- ICP61 Mo ppm	ME- ICP61 Na %	ME- ICP61 Ni ppm	ME- ICP61 P ppm	ME- ICP61 Pb ppm	ME- ICP61 S %	ME- ICP61 Sb ppm	ME- ICP61 Sc ppm	ME- ICP61 Sr ppm	ME- ICP61 Th ppm	ME- ICP61 Ti %
1333		1.20	10	0.76	842	2	1.99	29	1080	17	0.08	14	8	441	<20	0.30
1334		1.25	10	0.73	956	3	2.22	21	850	15	0.04	6	8	464	<20	0.35
1335		1.37	10	0.57	499	3	2.17	33	520	14	0.02	26	8	435	<20	0.39
1335A		3.72	30	0.98	383	162	0.97	17	780	28	1.85	9	12	228	<20	0.24
1336		1.23	10	0.60	512	2	2.24	18	760	19	0.02	10	7	498	<20	0.36
1337		1.26	10	0.74	608	3	2.25	19	570	14	0.04	14	7	542	<20	0.32
1338		1.44	10	0.74	548	1	2.65	25	640	33	0.01	24	8	504	<20	0.34
1339		1.42	10	1.03	671	1	2.73	26	780	32	0.01	17	9	526	<20	0.42
1340		1.61	10	0.86	650	1	2.63	28	870	38	0.01	29	8	462	<20	0.39
1341		1.42	10	0.96	650	1	2.85	19	790	16	0.02	7	8	571	<20	0.34
1379		1.25	20	0.88	1045	3	2.41	22	1140	12	0.06	10	9	514	<20	0.31
1380		1.08	10	0.57	550	3	2.00	19	900	13	0.04	13	7	524	<20	0.35
1381		1.42	10	0.77	551	2	2.59	15	580	14	0.03	7	7	521	<20	0.32
1382		1.34	10	0.67	502	2	1.85	29	760	18	0.02	19	8	462	<20	0.41
1383		1.61	10	0.87	688	1	3.11	12	530	12	0.02	<5	7	595	<20	0.29
1384		1.26	10	0.56	1055	1	1.79	23	750	22	0.02	18	7	450	<20	0.40
1385		1.20	10	0.57	802	3	1.75	26	920	26	0.03	21	7	458	<20	0.39
1385A		0.91	10	0.81	546	9	1.88	34	750	5	0.11	<5	10	236	<20	0.26
1432		0.95	10	0.85	628	2	1.73	26	1120	20	0.05	12	9	434	<20	0.40
1433		1.06	10	0.73	690	2	2.06	21	910	14	0.04	12	8	463	<20	0.39
1434		1.10	10	0.62	753	2	1.97	21	1030	18	0.05	13	7	457	<20	0.37
1435		1.03	10	0.50	587	2	1.58	24	930	25	0.03	18	7	483	<20	0.41
1435A		0.89	10	0.80	537	9	1.86	33	730	7	0.11	<5	10	235	<20	0.26
1436		1.29	10	0.53	1095	2	1.50	26	1150	25	0.05	18	8	433	<20	0.42
1437		1.13	10	0.63	1380	1	1.80	23	880	20	0.03	11	7	510	<20	0.36
1438		0.98	10	0.35	706	1	1.27	22	760	27	0.02	30	6	526	<20	0.36
1487		1.24	10	0.91	539	1	2.55	20	660	15	0.02	8	8	540	<20	0.36
1488		0.92	20	1.14	527	3	2.33	39	840	19	0.02	18	11	582	<20	0.41
1489		1.05	20	0.82	602	3	2.10	21	780	17	0.03	11	9	457	<20	0.39
1490		1.22	20	0.85	868	5	2.37	21	1020	20	0.05	10	9	537	<20	0.34
1491		1.25	20	0.79	827	3	2.39	17	1000	16	0.05	12	8	538	<20	0.31
1492		1.12	20	0.57	687	5	1.74	23	990	21	0.03	22	7	500	<20	0.41
1493		1.34	20	0.90	760	2	2.69	18	860	16	0.02	8	7	561	<20	0.34
1494		1.07	20	0.77	939	3	1.99	24	840	19	0.03	19	8	530	<20	0.35
1548		0.82	20	1.21	620	2	2.40	35	730	21	0.01	17	11	574	<20	0.48
1549		0.73	20	1.35	709	2	2.33	32	1030	21	0.04	16	12	582	<20	0.54
1550		1.10	20	0.91	1080	3	2.13	23	1020	23	0.03	15	9	504	<20	0.43
1550B		0.93	20	0.91	1120	3	2.03	23	1390	23	0.07	14	9	485	<20	0.37
1551		1.16	20	0.99	796	3	2.52	22	1160	31	0.07	9	9	544	<20	0.33
1552		1.04	30	0.80	883	5	1.74	28	1460	33	0.06	23	11	448	<20	0.36



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Page: 2 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 13- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11136209**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Tl	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
1333		<10	<10	74	<10	112
1334		<10	<10	90	<10	83
1335		<10	<10	103	<10	77
1335A		10	<10	108	20	74
1336		<10	<10	93	<10	69
1337		<10	<10	88	<10	67
1338		<10	<10	95	<10	94
1339		<10	<10	108	<10	97
1340		<10	<10	98	<10	130
1341		<10	<10	89	<10	77
1379		<10	<10	82	<10	83
1380		<10	<10	87	10	73
1381		<10	<10	80	<10	63
1382		<10	<10	109	10	81
1383		<10	<10	70	<10	60
1384		<10	<10	106	10	83
1385		<10	<10	101	<10	90
1385A		<10	<10	101	<10	62
1432		<10	<10	110	<10	91
1433		<10	<10	99	10	73
1434		<10	<10	95	<10	75
1435		<10	<10	110	10	81
1435A		<10	<10	94	<10	60
1436		<10	<10	113	10	103
1437		<10	<10	90	<10	103
1438		<10	<10	101	10	82
1487		<10	<10	98	<10	68
1488		<10	<10	114	<10	79
1489		<10	<10	91	<10	73
1490		<10	<10	79	<10	93
1491		<10	<10	66	<10	81
1492		<10	<10	87	10	82
1493		<10	<10	71	<10	80
1494		<10	<10	76	10	93
1548		<10	<10	111	<10	80
1549		<10	<10	135	<10	81
1550		<10	<10	101	<10	93
1550B		<10	<10	93	<10	84
1551		<10	<10	71	<10	86
1552		<10	<10	83	<10	99



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Page: 3 - A  
 Total # Pages: 3 (A - C)  
 Finalized Date: 13- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11136209**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %	ME- ICP61 Ga ppm
		.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
1553		0.70	0.005	<0.5	7.32	149	450	0.9	<2	2.43	<0.5	11	47	27	3.41	10
1554		0.60	0.020	<0.5	7.22	354	470	0.8	<2	1.87	0.6	14	69	39	3.57	20
1555		1.02	0.021	<0.5	7.83	304	440	0.9	<2	1.92	<0.5	13	57	56	3.59	20
1613		0.70	0.016	<0.5	7.78	150	410	0.8	<2	2.08	<0.5	16	74	28	3.74	20
1614		0.52	0.013	<0.5	7.48	117	400	0.8	<2	2.80	<0.5	11	51	23	2.89	20
1615		0.50	0.019	<0.5	8.08	167	370	0.8	<2	2.86	<0.5	11	65	30	3.15	20
1616		0.60	0.018	<0.5	8.22	271	370	0.8	<2	3.14	<0.5	14	65	35	3.36	20
1617		0.80	0.048	<0.5	8.74	417	390	0.9	<2	3.21	<0.5	17	83	48	4.13	20
1618		1.22	0.032	<0.5	8.45	245	340	0.8	<2	3.39	<0.5	16	78	37	3.87	20
1619		0.68	0.020	<0.5	8.61	251	440	0.9	<2	3.30	0.5	16	72	37	3.91	20
1620		1.22	0.022	<0.5	8.12	359	460	0.9	<2	1.97	<0.5	13	74	85	3.68	20
1683		1.06	0.008	<0.5	8.24	93	460	1.1	<2	2.79	<0.5	10	33	16	3.20	20
1684		0.88	0.013	<0.5	8.52	96	370	0.8	<2	3.47	<0.5	12	96	20	3.64	20
1685		0.62	0.033	<0.5	8.25	310	440	0.8	<2	2.18	<0.5	14	71	43	3.73	20
1685A		Not Recvd														
1686		0.80	0.026	<0.5	8.48	253	350	0.8	<2	3.04	<0.5	13	57	30	2.93	20
1689		1.18	0.040	<0.5	8.76	319	370	0.9	<2	3.32	<0.5	16	69	41	3.63	20



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Page: 3 - B  
 Total # Pages: 3 (A - C)  
 Finalized Date: 13- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136209**

Sample Description	Method Analyte Units LOR	ME- ICP61 K %	ME- ICP61 La ppm	ME- ICP61 Mg %	ME- ICP61 Mn ppm	ME- ICP61 Mo ppm	ME- ICP61 Na %	ME- ICP61 Ni ppm	ME- ICP61 P ppm	ME- ICP61 Pb ppm	ME- ICP61 S %	ME- ICP61 Sb ppm	ME- ICP61 Sc ppm	ME- ICP61 Sr ppm	ME- ICP61 Th ppm	ME- ICP61 Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
1553		1.11	20	1.02	627	3	2.43	21	1210	17	0.06	8	9	529	<20	0.37
1554		1.06	20	0.85	752	3	1.76	27	1280	28	0.05	24	9	490	<20	0.40
1555		1.04	20	0.72	675	5	2.00	23	990	21	0.03	21	8	543	<20	0.37
1613		0.92	20	1.36	706	2	2.09	42	910	14	0.03	12	9	554	<20	0.38
1614		0.85	20	0.91	924	2	2.75	20	660	16	0.02	8	8	561	<20	0.31
1615		0.66	20	0.99	750	2	2.61	25	790	20	0.03	10	9	611	<20	0.33
1616		0.76	20	1.11	633	2	2.80	30	860	20	0.02	16	9	657	<20	0.35
1617		0.79	20	1.34	706	2	2.75	38	920	21	0.01	16	12	673	<20	0.45
1618		0.58	20	1.41	584	2	2.73	31	800	19	0.03	15	11	653	<20	0.44
1619		0.96	20	1.34	767	2	2.77	32	1060	19	0.03	13	11	664	<20	0.43
1620		1.13	20	0.78	459	3	1.96	34	780	22	0.02	29	9	543	<20	0.37
1683		1.23	20	1.01	588	3	2.97	19	790	13	0.02	<5	8	632	<20	0.33
1684		0.84	20	1.64	557	2	2.86	35	690	13	0.02	6	11	713	<20	0.38
1685		1.03	20	0.90	663	3	2.29	32	850	22	0.02	18	9	563	<20	0.40
1685A																
1686		0.70	20	1.00	740	2	2.85	26	730	22	0.02	13	8	671	<20	0.30
1689		0.75	20	1.26	599	2	2.91	33	790	22	0.01	14	11	702	<20	0.41



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Page: 3 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 13- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11136209**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Tl	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		10	10	1	10	2
1553		<10	<10	85	<10	75
1554		<10	<10	97	10	108
1555		<10	<10	87	<10	82
1613		<10	<10	93	<10	71
1614		<10	<10	76	<10	69
1615		<10	<10	90	<10	85
1616		<10	<10	91	<10	81
1617		<10	<10	109	<10	91
1618		<10	<10	111	<10	80
1619		<10	<10	100	<10	98
1620		<10	<10	92	10	70
1683		<10	<10	71	<10	60
1684		<10	<10	102	<10	69
1685		<10	<10	96	10	84
1685A						
1686		<10	<10	79	<10	72
1689		<10	<10	108	<10	81



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Page: 1  
 Finalized Date: 12- AUG- 2011  
 Account: ELGFEC

**CERTIFICATE VA11136280**

Project: Eldorado  
 P.O. No.: ELD- 2011- 001r  
 This report is for 56 Rock samples submitted to our lab in Vancouver, BC, Canada on 14-JUL-2011.

The following have access to data associated with this certificate:

ELEANOR BLACK  
 TWILA SKINNER

MATT ECKFELDT  
 ARNAND VAN HEERDEN

ROSS SHERLOCK

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES

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 ATTN: ELEANOR BLACK  
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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:

Colin Ramshaw, Vancouver Laboratory Manager





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Page: 2 - A  
 Total # Pages: 3 (A - C)  
 Finalized Date: 12- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11136280**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	0.01	10	
1052		1.16	0.025	<0.5	5.70	254	690	1.1	<2	0.59	0.5	13	47	75	7.13	20
1053		1.18	0.046	1.0	7.77	423	740	1.1	<2	0.36	0.9	17	54	72	6.22	20
1054		0.98	0.065	0.7	7.11	214	440	1.1	2	0.09	0.7	14	48	78	5.94	10
1055		1.16	0.010	0.8	9.09	124	780	1.1	<2	0.44	1.1	18	61	65	6.79	20
1056		0.84	0.014	1.1	7.76	188	690	0.9	<2	0.66	0.7	20	45	109	7.79	20
1057		1.00	0.005	1.0	8.17	44	780	0.8	<2	1.41	0.6	8	51	71	8.51	20
1058		0.74	0.008	1.0	8.55	105	780	0.9	<2	1.66	0.5	15	60	85	9.41	20
1098		1.10	0.009	<0.5	8.32	207	740	1.1	<2	0.92	<0.5	27	50	73	6.93	20
1099		1.30	0.050	<0.5	7.78	1030	670	1.0	<2	1.08	0.6	9	49	56	7.30	20
1100		0.76	0.070	<0.5	8.16	838	770	1.0	<2	0.89	<0.5	13	51	65	7.38	20
1100B		0.90	0.073	<0.5	8.35	800	800	1.0	<2	0.90	<0.5	13	52	64	7.46	20
1101		0.96	0.008	0.7	8.35	169	790	1.0	<2	0.63	0.8	10	42	73	8.43	20
1102		0.94	0.028	<0.5	8.25	267	880	0.9	<2	0.73	0.5	8	46	76	8.22	20
1103		0.66	0.008	<0.5	7.66	209	640	0.9	<2	0.80	0.8	17	70	74	6.20	20
1104		0.60	0.013	<0.5	7.81	290	680	1.0	<2	1.61	0.5	20	144	50	5.07	20
1105		1.30	0.006	<0.5	8.34	139	740	1.0	<2	0.80	1.3	16	65	61	5.63	20
1106		0.72	0.018	<0.5	8.37	208	910	1.0	<2	0.77	0.6	19	52	92	8.91	20
1107		1.38	0.016	<0.5	7.80	171	880	0.9	<2	1.36	0.5	15	57	53	5.64	20
1108		2.18	0.012	<0.5	7.93	137	720	0.9	3	1.26	0.5	17	65	61	5.71	20
1148		1.64	0.004	<0.5	7.83	144	680	1.0	<2	0.97	0.7	16	37	80	7.32	20
1149		1.66	0.003	<0.5	7.92	96	600	0.9	<2	1.27	<0.5	14	41	84	6.32	20
1150		1.60	0.010	0.5	8.22	177	560	1.0	<2	1.40	<0.5	13	37	74	10.55	20
1150B		1.60	0.007	<0.5	8.13	143	450	0.9	<2	0.92	<0.5	25	31	90	9.60	20
1151		1.44	0.026	<0.5	7.73	630	620	0.9	<2	0.68	<0.5	17	54	70	7.56	20
1152		1.32	0.009	<0.5	7.60	402	640	0.9	<2	0.85	0.5	15	53	60	6.32	20
1153		Not Recvd														
1154		1.94	0.006	<0.5	7.68	207	790	0.9	<2	1.61	0.7	12	61	49	5.04	20
1155		0.70	0.014	<0.5	7.74	190	630	1.0	<2	1.88	0.7	13	54	44	4.78	20
1156		1.02	0.014	<0.5	7.95	236	700	1.0	<2	1.54	0.6	14	52	46	4.86	20
1195		1.30	0.026	<0.5	8.38	441	490	0.9	<2	2.06	0.9	13	75	67	5.26	20
1196		1.48	0.011	<0.5	8.20	127	460	0.8	<2	2.94	<0.5	12	62	40	4.25	20
1197		1.24	0.015	<0.5	7.68	283	510	0.9	<2	1.93	<0.5	13	59	109	7.32	10
1198		1.66	0.005	<0.5	7.95	114	630	0.8	<2	2.51	0.6	21	39	48	4.95	20
1199		1.50	0.006	<0.5	8.00	77	530	0.9	<2	2.71	0.6	20	47	41	4.51	20
1200		0.92	0.025	<0.5	7.65	97	520	0.8	<2	2.18	<0.5	14	62	35	4.58	20
1200B		0.82	0.003	<0.5	7.95	67	570	1.2	<2	2.44	<0.5	12	37	25	3.83	20
1201		0.88	0.006	<0.5	7.35	86	520	0.8	<2	1.95	<0.5	9	59	35	4.25	20
1202		1.12	0.008	<0.5	7.50	94	530	0.8	<2	1.98	<0.5	12	58	41	4.42	20
1203		0.96	0.008	<0.5	7.87	112	630	0.9	<2	1.75	<0.5	11	53	40	4.63	20
1204		1.02	0.013	0.6	7.80	102	750	0.8	<2	1.35	0.8	12	61	55	4.94	20



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Page: 2 - B  
 Total # Pages: 3 (A - C)  
 Finalized Date: 12- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11136280**

Sample Description	Method Analyte Units LOR	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
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
1052		1.03	20	0.62	472	16	0.62	21	970	8	0.33	33	15	106	<20	0.44
1053		1.33	20	0.37	959	11	0.38	31	830	14	0.16	45	24	91	<20	0.44
1054		0.91	20	0.14	739	20	0.10	32	900	14	0.11	48	24	269	<20	0.37
1055		1.82	20	0.72	1270	14	0.62	40	750	21	0.14	25	25	113	<20	0.46
1056		1.00	20	0.77	1000	32	0.75	43	1030	16	0.20	71	25	113	<20	0.45
1057		0.85	20	0.88	713	13	1.17	21	1420	22	0.60	12	26	160	<20	0.44
1058		0.94	20	1.14	977	7	1.21	31	1360	24	0.40	28	22	265	<20	0.41
1098		0.99	20	0.77	828	9	0.87	31	920	10	0.17	47	21	163	<20	0.43
1099		1.22	20	0.80	398	16	0.85	24	1130	11	0.30	138	25	155	<20	0.43
1100		1.14	20	0.84	563	10	0.71	22	1010	9	0.27	244	24	145	<20	0.46
1100B		1.17	20	0.84	559	11	0.73	22	1040	8	0.27	246	25	146	<20	0.46
1101		1.06	20	0.92	522	14	0.58	24	1190	26	0.29	38	27	111	<20	0.44
1102		1.00	20	0.91	561	10	0.78	20	1370	16	0.36	18	24	127	<20	0.41
1103		1.06	20	0.72	938	15	0.65	43	1060	15	0.13	41	23	112	<20	0.43
1104		1.28	20	1.02	791	8	1.01	61	910	10	0.10	33	22	195	<20	0.50
1105		1.14	20	0.64	962	11	0.80	35	890	15	0.08	30	23	134	<20	0.45
1106		1.03	20	0.99	731	21	0.97	47	1050	17	0.34	40	26	145	<20	0.42
1107		1.08	20	0.89	737	15	1.25	33	1050	13	0.20	32	22	204	<20	0.46
1108		1.04	20	1.08	808	20	1.43	46	1360	16	0.18	20	21	223	<20	0.47
1148		1.33	20	0.84	408	15	1.13	34	1270	18	0.32	44	23	176	<20	0.36
1149		1.04	20	0.89	285	9	1.19	30	870	12	0.16	35	25	174	<20	0.44
1150		1.03	30	0.90	462	35	1.46	32	2280	19	0.64	40	23	292	<20	0.43
1150B		0.80	30	0.81	473	49	0.79	95	2000	13	0.62	39	24	197	<20	0.42
1151		1.35	20	0.86	468	15	0.79	41	1100	12	0.33	210	23	135	<20	0.43
1152		1.29	20	0.85	597	13	0.96	38	1040	12	0.22	66	21	176	<20	0.40
1153																
1154		1.15	20	0.97	753	10	1.43	34	990	12	0.14	25	21	228	<20	0.45
1155		1.11	20	0.96	683	7	1.78	29	1110	20	0.12	20	16	352	<20	0.44
1156		1.22	20	0.93	731	8	1.70	29	830	14	0.10	27	18	312	<20	0.44
1195		1.04	20	1.09	459	5	2.05	34	1040	24	0.13	36	14	362	<20	0.41
1196		1.00	20	1.26	595	3	2.47	25	910	15	0.06	18	13	477	<20	0.41
1197		0.99	20	0.89	370	26	1.75	37	1580	16	0.36	31	22	317	<20	0.37
1198		0.94	20	0.83	815	7	2.43	34	800	6	0.10	20	12	427	<20	0.36
1199		0.90	20	1.03	806	6	2.54	40	740	11	0.11	16	13	464	<20	0.36
1200		0.93	20	1.15	786	5	2.11	27	920	12	0.07	15	15	360	<20	0.43
1200B		1.35	20	1.08	644	4	2.80	21	750	11	0.04	6	11	505	<20	0.39
1201		0.86	20	1.03	491	6	1.91	28	1000	10	0.10	15	17	306	<20	0.42
1202		0.98	20	1.05	535	7	1.88	29	1020	12	0.11	12	18	312	<20	0.45
1203		1.16	20	1.00	439	10	1.89	27	860	13	0.15	16	19	300	<20	0.47
1204		1.08	20	0.96	656	8	1.60	33	630	14	0.10	54	21	231	<20	0.45



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Page: 2 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 12- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11136280**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Ti	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
1052		<10	<10	181	<10	148
1053		<10	<10	185	10	225
1054		<10	<10	201	10	245
1055		<10	<10	196	<10	283
1056		<10	<10	205	<10	232
1057		<10	<10	204	<10	214
1058		<10	<10	156	<10	260
1098		<10	<10	155	<10	125
1099		<10	<10	193	<10	83
1100		<10	<10	180	<10	103
1100B		<10	<10	181	<10	100
1101		10	<10	198	<10	157
1102		<10	<10	183	<10	117
1103		<10	<10	207	<10	264
1104		<10	<10	182	<10	127
1105		<10	<10	195	<10	236
1106		<10	<10	231	<10	164
1107		<10	<10	204	<10	143
1108		<10	<10	205	<10	145
1148		<10	<10	171	<10	125
1149		<10	<10	179	<10	114
1150		<10	<10	193	<10	93
1150B		10	<10	187	<10	113
1151		<10	<10	208	<10	109
1152		<10	<10	194	<10	120
1153		<10	<10	207	<10	149
1154		<10	<10	144	<10	146
1155		<10	<10	164	<10	136
1156		<10	<10	140	<10	146
1195		<10	<10	140	<10	146
1196		<10	<10	132	<10	83
1197		<10	<10	227	10	74
1198		<10	<10	117	<10	82
1199		<10	<10	122	<10	85
1200		<10	<10	140	<10	97
1200B		<10	<10	111	<10	76
1201		<10	<10	153	<10	80
1202		<10	<10	167	<10	89
1203		<10	<10	177	<10	80
1204		<10	<10	186	<10	140



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Page: 3 - A  
 Total # Pages: 3 (A - C)  
 Finalized Date: 12- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11136280**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %	ME- ICP61 Ga ppm
		.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
1242		1.60	0.404	<0.5	8.01	241	500	0.9	<2	2.25	<0.5	12	44	59	4.14	20
1243		1.56	0.105	<0.5	7.53	109	540	1.0	<2	2.19	<0.5	8	38	54	2.40	20
1244		1.70	0.129	<0.5	7.46	150	620	1.0	<2	2.12	<0.5	11	47	54	2.58	20
1245		0.94	0.066	<0.5	7.76	132	610	1.0	<2	2.17	<0.5	14	57	48	3.18	20
1246		0.74	0.255	<0.5	6.89	283	530	0.8	<2	2.45	0.5	16	65	63	3.71	20
1247		1.16	0.017	<0.5	7.82	83	500	0.8	<2	2.66	<0.5	12	64	38	3.43	20
1248		1.12	0.275	<0.5	7.87	127	630	0.9	<2	2.23	<0.5	14	49	45	4.17	20
1249		0.88	0.029	<0.5	8.06	131	540	0.9	<2	1.86	<0.5	15	57	59	4.57	20
1250		1.54	0.009	<0.5	7.95	102	630	0.8	<2	2.17	<0.5	13	63	38	4.30	20
1250B		0.86	0.011	<0.5	7.80	132	560	0.8	<2	2.07	<0.5	14	70	40	4.53	20
1251		1.08	0.017	<0.5	8.08	84	690	0.8	<2	1.70	0.7	14	58	51	4.80	20
1252		1.26	0.015	<0.5	7.98	115	680	0.8	<2	1.75	0.8	13	51	48	4.60	20
1288		1.50	0.126	<0.5	7.80	1385	710	1.2	2	0.80	<0.5	11	52	104	3.43	20
1290		1.82	0.066	<0.5	7.66	271	590	1.0	<2	2.21	<0.5	13	51	49	2.82	20
1291		1.42	0.096	<0.5	7.62	281	580	1.0	<2	2.00	<0.5	12	44	55	2.72	20
1293		1.42	0.252	<0.5	8.00	200	560	1.0	<2	2.22	<0.5	15	63	62	3.58	20



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Page: 3 - B  
 Total # Pages: 3 (A - C)  
 Finalized Date: 12- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11136280**

Sample Description	Method Analyte Units LOR	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	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	20	0.01	
1242		1.13	20	0.83	440	3	2.45	23	650	21	0.03	20	10	507	<20	0.35
1243		1.32	20	0.69	340	2	2.92	18	530	17	0.01	12	6	525	<20	0.25
1244		1.59	20	0.74	428	2	2.97	21	570	17	0.01	9	6	488	<20	0.29
1245		1.45	10	0.95	508	3	2.73	28	750	23	0.01	19	10	463	<20	0.37
1246		1.08	10	1.01	718	4	1.98	29	1050	25	0.05	24	12	390	<20	0.41
1247		0.93	10	0.95	369	4	2.18	25	670	9	0.03	15	17	348	<20	0.40
1248		1.10	10	0.99	553	5	2.35	26	740	18	0.07	17	17	380	<20	0.41
1249		0.96	10	0.92	471	7	1.82	31	700	14	0.08	19	17	325	<20	0.39
1250		1.04	<10	1.21	594	5	2.11	30	860	14	0.06	16	18	338	<20	0.45
1250B		0.92	10	1.21	656	5	1.98	32	880	18	0.04	16	17	335	<20	0.47
1251		0.99	10	1.03	662	6	1.89	30	770	16	0.06	17	21	292	<20	0.44
1252		0.96	10	0.91	581	5	1.71	26	700	17	0.07	25	20	301	<20	0.41
1288		2.45	10	0.48	296	5	1.39	17	510	22	0.01	36	11	227	<20	0.32
1290		1.49	10	0.82	465	2	2.73	25	610	40	0.02	45	9	490	<20	0.34
1291		1.51	10	0.64	510	2	2.70	21	560	44	0.01	30	8	469	<20	0.28
1293		1.41	10	0.93	550	3	2.70	28	680	31	0.01	20	11	489	<20	0.45



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Page: 3 - C  
 Total # Pages: 3 (A - C)  
 Finalized Date: 12- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11136280**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Tl	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
1242		<10	<10	109	<10	86
1243		<10	<10	72	<10	61
1244		<10	<10	72	<10	70
1245		<10	20	93	<10	89
1246		<10	10	114	<10	122
1247		<10	10	145	<10	59
1248		<10	10	148	<10	79
1249		<10	10	148	<10	82
1250		<10	10	167	<10	102
12508		<10	10	159	<10	109
1251		<10	10	167	<10	131
1252		<10	10	150	<10	133
1288		<10	10	102	20	50
1290		<10	10	90	<10	90
1291		<10	10	81	<10	91
1293		<10	10	121	<10	97



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Page: 1  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

**CERTIFICATE VA11138816**

Project: Eldorado  
 P.O. No.: ELD- 2011- 003r  
 This report is for 89 Rock samples submitted to our lab in Vancouver, BC, Canada on 21-JUL- 2011.  
 The following have access to data associated with this certificate:

ELEANOR BLACK	MATT ECKFELDT	ROSS SHERLOCK
TWILA SKINNER	ARNAND VAN HEERDEN	

**SAMPLE PREPARATION**

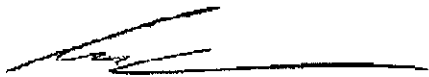
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES

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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:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %	ME- ICP61 Ga ppm
		.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
581		0.50	0.003	<0.5	7.52	56	540	1.1	<2	1.94	<0.5	9	29	23	3.94	20
582		0.46	0.005	<0.5	7.81	57	540	0.9	<2	1.98	<0.5	9	31	33	4.23	20
583		0.46	0.003	<0.5	7.64	77	530	1.1	<2	2.01	<0.5	10	24	16	3.54	20
584		0.72	0.003	<0.5	8.20	64	870	0.8	<2	1.20	<0.5	11	36	38	4.90	20
585		0.82	0.003	<0.5	8.30	63	870	0.8	<2	0.98	<0.5	10	38	42	5.22	20
585A		0.12	0.224	1.9	6.85	34	1500	1.1	4	2.04	1.0	16	101	1745	4.47	20
586		0.68	0.003	<0.5	7.98	62	810	0.9	<2	1.00	<0.5	9	35	36	4.77	20
587		0.58	0.004	<0.5	7.61	76	770	0.9	<2	1.27	<0.5	13	36	33	4.56	20
588		0.66	0.003	<0.5	7.89	42	800	0.8	<2	1.47	<0.5	10	37	34	4.59	20
589		0.60	0.002	<0.5	8.03	54	820	0.8	<2	1.00	<0.5	9	45	37	4.97	20
590		0.52	0.004	<0.5	7.60	57	670	1.0	<2	1.48	<0.5	9	36	30	4.13	20
591		0.56	0.004	<0.5	7.98	53	730	0.8	<2	0.87	<0.5	8	51	33	5.41	20
592		0.62	0.009	<0.5	7.87	48	700	0.8	<2	0.69	0.5	11	53	36	5.11	20
593		0.64	0.003	<0.5	8.36	38	820	0.9	<2	1.03	<0.5	11	43	44	4.94	20
594		0.56	0.006	<0.5	7.62	45	750	0.9	<2	0.97	<0.5	8	40	42	4.80	20
595		0.62	0.003	<0.5	8.41	39	820	0.9	2	0.38	<0.5	11	45	56	5.41	20
652		0.48	0.004	<0.5	8.32	67	810	0.9	<2	1.55	<0.5	10	39	45	5.47	20
653		0.58	0.003	0.6	8.32	57	960	0.8	3	1.14	<0.5	7	47	40	5.44	20
654		0.64	0.003	<0.5	8.49	55	710	0.9	<2	0.69	<0.5	13	48	64	5.59	20
655		0.44	0.004	<0.5	7.85	43	610	1.2	<2	1.98	<0.5	7	23	16	3.27	20
656		0.82	0.003	<0.5	8.17	54	850	0.9	<2	0.89	<0.5	17	47	50	4.93	20
657		0.74	0.002	0.5	7.93	46	780	0.9	<2	1.06	<0.5	9	45	36	4.68	20
658		0.74	0.004	<0.5	7.93	32	750	0.8	<2	0.33	<0.5	9	45	59	5.41	20
659		0.50	0.006	<0.5	7.85	43	620	1.2	<2	2.04	<0.5	9	28	16	3.51	20
660		0.60	0.005	0.5	7.51	35	810	1.0	<2	0.99	<0.5	7	39	28	4.19	20
660A		0.12	0.198	2.0	7.40	28	1560	1.1	3	2.09	0.9	15	105	1765	4.47	20
661		0.52	0.004	0.6	7.79	39	670	1.1	<2	1.74	<0.5	9	32	25	3.89	20
662		0.38	0.002	<0.5	8.06	36	740	1.0	2	1.25	<0.5	9	38	32	4.65	20
663		0.68	0.003	0.8	8.19	45	760	1.0	<2	1.07	0.8	9	44	35	4.66	20
816		2.14	0.011	<0.5	7.63	171	660	0.8	<2	1.67	0.5	11	60	44	4.01	20
817		1.82	0.012	<0.5	8.01	210	490	0.9	<2	2.68	<0.5	15	91	29	3.86	20
818		0.98	0.010	<0.5	6.50	175	470	0.8	<2	1.90	<0.5	11	71	36	3.88	20
819		1.06	0.019	<0.5	7.27	183	480	0.8	<2	1.10	<0.5	15	52	35	4.29	20
820		0.90	0.004	<0.5	7.55	86	610	0.8	<2	1.21	<0.5	9	35	32	4.01	20
880		1.12	0.019	<0.5	7.48	144	650	0.8	<2	1.87	<0.5	9	31	35	4.09	20
881		0.78	0.008	<0.5	7.54	77	590	0.9	<2	1.95	<0.5	13	50	25	4.12	20
882		1.38	0.018	<0.5	7.99	283	510	1.0	<2	2.89	<0.5	13	77	26	3.71	20
883		0.84	0.018	<0.5	7.70	117	440	0.9	<2	1.73	<0.5	13	68	23	3.83	20
884		1.26	0.005	<0.5	7.59	111	690	0.8	<2	0.89	<0.5	8	36	29	4.13	20
945		0.68	0.026	<0.5	7.67	32	630	1.1	<2	2.12	<0.5	7	17	14	3.18	20





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Page: 2 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	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	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
581		1.35	20	0.85	636	3	2.46	16	430	10	0.03	5	11	424	<20	0.37
582		1.19	20	0.80	585	3	2.16	16	600	8	0.09	7	16	352	<20	0.41
583		1.38	20	0.87	679	2	2.70	16	420	12	0.01	8	9	460	<20	0.33
584		1.09	20	0.98	558	2	1.70	23	650	5	0.05	9	19	250	<20	0.43
585		1.11	20	0.84	555	3	1.22	20	630	10	0.09	10	23	162	<20	0.47
585A		3.51	30	0.94	366	162	0.96	16	750	22	1.76	11	11	215	<20	0.23
586		1.15	20	0.74	627	4	1.40	21	480	10	0.04	12	19	211	<20	0.41
587		1.14	20	0.84	745	4	1.62	18	520	11	0.08	8	17	252	<20	0.41
588		1.05	20	0.82	585	3	1.61	20	600	8	0.10	10	20	249	<20	0.43
589		1.12	20	0.87	540	4	1.46	22	800	6	0.08	13	23	173	<20	0.47
590		1.34	20	0.92	485	3	2.23	19	660	9	0.02	7	15	331	<20	0.38
591		1.05	20	0.89	484	4	1.47	19	860	16	0.05	9	21	190	<20	0.48
592		1.11	20	0.80	590	7	1.35	23	1190	17	0.02	9	21	148	<20	0.47
593		1.20	20	0.87	519	4	1.66	26	770	7	0.08	9	21	217	<20	0.44
594		1.22	20	0.85	544	5	1.60	23	1140	13	0.05	11	19	222	<20	0.40
595		1.17	20	0.55	465	4	1.30	28	610	12	0.03	11	22	154	<20	0.49
652		1.19	20	0.90	710	4	1.61	20	810	15	0.18	9	20	264	<20	0.43
653		1.11	20	0.88	613	5	1.48	22	670	15	0.11	14	24	183	<20	0.51
654		1.15	20	0.77	472	8	1.23	31	660	17	0.05	18	22	155	<20	0.45
655		1.59	20	0.88	529	3	2.82	11	480	15	0.03	<5	10	458	<20	0.34
656		1.22	20	0.90	633	8	1.63	32	590	15	0.09	14	23	184	<20	0.47
657		1.22	20	0.87	513	5	1.77	23	640	15	0.05	9	19	222	<20	0.43
658		0.94	20	0.58	434	4	1.64	21	800	11	0.06	8	21	171	<20	0.48
659		1.53	20	0.89	703	3	2.71	16	500	15	0.01	6	10	460	<20	0.36
660		1.25	20	0.49	453	3	1.98	15	680	10	0.02	7	16	282	<20	0.44
660A		3.66	40	1.00	376	164	0.99	20	740	27	1.87	11	12	226	<20	0.24
661		1.39	20	0.81	877	2	2.32	19	760	15	0.02	<5	12	398	<20	0.37
662		1.18	20	0.76	470	5	2.15	23	770	12	0.03	7	16	309	<20	0.44
663		1.27	20	0.79	493	4	1.97	25	970	12	0.03	9	18	270	<20	0.45
816		0.93	20	0.96	620	4	1.99	38	700	12	0.09	8	17	317	<20	0.40
817		1.00	20	1.30	635	3	2.58	48	720	14	0.02	8	12	501	<20	0.41
818		0.83	20	1.00	472	1	2.15	37	530	11	0.01	5	11	380	<20	0.40
819		0.80	20	0.81	730	2	1.83	30	490	11	0.01	6	13	281	<20	0.43
820		0.92	20	0.78	405	2	2.02	16	610	10	0.02	<5	16	304	<20	0.43
880		0.87	20	0.65	617	7	1.93	13	990	6	0.20	11	17	268	<20	0.41
881		1.02	20	0.99	737	4	2.15	20	730	10	0.10	6	14	365	<20	0.41
882		1.03	20	1.31	657	2	2.68	44	800	14	0.02	7	11	515	<20	0.39
883		0.83	20	1.01	370	1	2.28	34	520	11	0.01	<5	10	408	<20	0.39
884		0.99	20	0.76	432	3	1.80	19	630	9	0.02	6	17	237	<20	0.44
945		1.43	20	0.78	519	2	2.71	9	470	11	0.04	<5	11	454	<20	0.35



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Page: 2 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Ti	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
581	<10	<10	106	<10	92	
582	<10	<10	130	<10	107	
583	<10	<10	82	<10	79	
584	<10	<10	146	<10	105	
585	<10	<10	160	<10	140	
585A	<10	<10	107	20	71	
586	<10	<10	140	<10	124	
587	<10	<10	135	<10	108	
588	<10	<10	146	<10	105	
589	<10	<10	175	<10	132	
590	<10	<10	124	<10	90	
591	<10	<10	177	<10	138	
592	<10	<10	186	<10	196	
593	<10	<10	163	<10	112	
594	<10	<10	148	<10	137	
595	<10	<10	161	<10	147	
652	<10	<10	148	<10	117	
653	<10	<10	178	<10	125	
654	<10	<10	170	<10	113	
655	<10	<10	82	<10	59	
656	<10	<10	189	<10	121	
657	<10	<10	154	<10	127	
658	<10	<10	158	<10	150	
659	<10	<10	97	<10	89	
660	<10	<10	125	<10	90	
660A	<10	<10	106	20	71	
661	<10	<10	111	<10	118	
662	<10	<10	145	<10	149	
663	<10	<10	153	<10	150	
816	<10	<10	148	<10	109	
817	<10	<10	121	<10	93	
818	<10	<10	117	<10	91	
819	<10	<10	131	<10	128	
820	<10	<10	138	<10	90	
880	<10	<10	132	<10	94	
881	<10	<10	131	<10	105	
882	<10	<10	109	<10	84	
883	<10	<10	114	<10	88	
884	<10	<10	148	<10	101	
945	<10	<10	86	<10	56	



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Page: 3 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %	ME- ICP61 Ga ppm
946		1.10	0.021	0.5	8.17	235	570	0.8	<2	1.52	<0.5	16	61	46	4.81	10
947		1.12	0.007	<0.5	7.87	106	480	0.8	<2	1.48	<0.5	12	51	27	4.12	20
948		0.90	0.004	<0.5	8.03	93	510	1.0	<2	1.72	<0.5	12	49	27	3.94	20
949		0.74	0.001	<0.5	7.76	16	560	1.3	<2	2.48	<0.5	7	12	8	2.67	20
950		0.90	0.008	0.5	8.27	108	530	1.0	<2	1.62	<0.5	10	38	26	3.88	20
950B		0.94	0.005	<0.5	7.95	122	390	0.8	<2	0.86	<0.5	11	51	33	4.65	20
951		0.86	0.016	<0.5	7.87	969	460	0.9	<2	1.36	<0.5	13	42	44	4.13	20
952		1.06	0.083	<0.5	7.69	495	570	1.0	<2	2.29	<0.5	11	53	54	3.25	20
953		Not Recvd														
954		0.86	0.027	<0.5	8.90	586	650	0.9	<2	1.27	0.7	14	34	74	6.54	20
955		1.08	0.006	<0.5	8.12	187	550	0.9	<2	1.45	<0.5	11	36	41	4.90	20
956		1.16	0.013	<0.5	8.67	104	1310	1.0	<2	1.33	1.1	18	31	78	6.40	20
993		1.30	<0.001	<0.5	5.63	2110	430	0.8	<2	3.43	<0.5	6	22	21	4.13	10
994		1.52	0.067	<0.5	7.27	980	480	0.8	<2	2.06	0.5	12	79	35	3.56	20
995		0.82	0.002	0.5	8.60	46	590	1.3	<2	2.59	<0.5	10	32	13	3.44	20
996		0.88	0.026	<0.5	9.09	235	570	1.0	<2	2.53	<0.5	18	106	46	4.57	20
997		0.88	0.009	<0.5	8.54	164	540	1.0	<2	2.28	<0.5	14	78	36	3.97	20
998		0.72	0.008	<0.5	8.30	138	540	1.0	<2	1.78	<0.5	9	54	22	4.09	20
999		0.88	0.015	<0.5	8.39	451	570	1.0	<2	1.54	<0.5	10	52	33	3.76	20
1000		0.80	0.056	0.6	8.18	125	600	1.1	<2	1.96	<0.5	8	39	27	3.33	20
1000B		0.84	0.021	0.5	7.87	176	550	1.0	<2	1.64	<0.5	8	46	30	3.38	20
1001		0.58	0.005	<0.5	8.45	153	730	1.1	<2	1.79	0.5	11	33	39	4.91	20
1002		0.68	0.009	0.5	8.76	167	650	1.1	2	1.76	<0.5	16	40	51	5.39	20
1003		1.12	0.005	<0.5	9.21	124	910	1.0	<2	1.12	0.6	13	43	66	5.93	20
1004		1.46	0.007	0.8	9.33	185	810	1.0	<2	1.40	1.4	20	38	70	6.28	20
1005		1.20	0.017	<0.5	9.31	147	890	1.0	2	0.66	0.7	17	44	63	5.70	20
1006		0.84	0.023	0.5	9.25	222	790	1.1	2	0.83	0.7	18	47	77	6.25	20
1040		1.02	0.015	<0.5	8.53	377	640	0.9	<2	1.46	0.8	16	67	47	5.06	20
1041		0.78	0.009	<0.5	8.02	109	490	0.9	<2	2.39	<0.5	11	77	19	4.13	20
1042		0.98	0.024	<0.5	8.33	175	490	0.9	<2	2.37	<0.5	15	118	29	4.38	20
1043		0.98	0.017	<0.5	8.54	200	660	0.9	<2	2.00	<0.5	15	93	36	4.75	20
1044		0.82	0.010	0.5	8.19	210	460	0.8	<2	0.81	<0.5	17	50	54	5.00	20
1045		0.86	0.010	<0.5	8.29	149	510	0.9	<2	1.58	<0.5	10	45	32	3.80	20
1046		1.38	0.049	0.5	8.88	296	680	0.9	<2	0.88	<0.5	13	49	54	4.81	20
1047		1.06	0.026	<0.5	8.10	241	590	1.1	<2	1.77	<0.5	9	53	39	3.30	20
1048		0.62	0.007	<0.5	8.53	205	650	1.1	2	1.86	<0.5	14	45	44	5.32	20
1049		0.58	0.009	<0.5	8.89	354	750	1.1	<2	1.79	<0.5	18	42	54	5.55	20
1050		0.64	0.010	<0.5	8.49	326	680	1.1	<2	2.06	0.8	14	43	46	5.41	20
1050B		0.98	0.017	<0.5	8.84	488	690	1.2	<2	1.91	0.7	15	51	52	5.85	20
1051		0.90	0.016	<0.5	8.07	338	840	1.0	<2	1.09	0.6	11	55	62	6.38	20



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Page: 3 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	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
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	20	0.01	
946		0.85	20	0.95	736	7	1.72	32	730	10	0.05	12	19	320	<20	0.42
947		0.79	20	0.86	455	1	2.07	23	640	11	0.02	6	12	360	<20	0.41
948		1.04	20	0.94	431	1	2.31	27	790	12	0.01	6	11	415	<20	0.40
949		1.52	20	0.83	548	1	3.07	10	650	12	0.01	<5	7	579	<20	0.28
950		1.19	20	0.87	484	1	2.40	19	770	15	0.01	<5	11	423	<20	0.39
950B		0.95	20	0.93	382	1	1.68	21	850	13	0.02	<5	13	270	<20	0.44
951		0.99	20	0.92	862	1	1.77	23	660	16	0.05	16	13	319	<20	0.40
952		1.21	20	0.98	414	<1	2.63	21	630	13	0.02	14	10	449	<20	0.37
953																
954		1.10	20	0.85	636	2	1.47	23	720	18	0.07	46	20	244	<20	0.44
955		0.95	20	0.88	726	1	1.97	19	780	9	0.07	22	16	287	<20	0.38
956		1.04	20	0.78	994	2	1.33	26	760	12	0.10	21	19	228	<20	0.39
993		0.86	20	0.76	654	9	1.83	12	1150	8	0.34	41	6	449	<20	0.22
994		1.01	20	0.83	398	3	1.90	37	560	29	0.03	66	11	374	<20	0.35
995		1.47	20	0.96	563	2	3.15	18	790	13	0.01	<5	8	575	<20	0.36
996		1.02	20	1.29	522	2	2.68	52	920	14	0.01	9	13	511	<20	0.47
997		1.04	20	1.08	472	2	2.58	40	1040	13	0.03	6	12	476	<20	0.43
998		1.24	20	0.82	457	3	2.34	20	880	18	0.01	9	10	419	<20	0.46
999		1.22	20	0.73	399	2	2.27	22	680	21	0.01	15	10	385	<20	0.38
1000		1.44	20	0.71	433	3	2.72	17	590	19	0.02	11	8	460	<20	0.36
1000B		1.22	20	0.65	445	3	2.33	18	560	22	0.03	11	9	379	<20	0.39
1001		1.30	20	0.81	831	4	2.03	21	680	13	0.06	10	16	366	<20	0.40
1002		1.18	20	0.93	1150	3	1.98	29	810	16	0.05	19	15	357	<20	0.44
1003		1.07	20	0.55	806	4	0.95	25	750	10	0.09	15	24	157	<20	0.46
1004		0.95	20	0.62	1365	4	1.25	31	770	19	0.06	19	22	190	<20	0.47
1005		1.33	20	0.47	908	4	0.62	27	690	10	0.06	23	21	136	<20	0.44
1006		1.25	20	0.63	976	4	1.19	29	780	14	0.10	25	20	213	<20	0.44
1040		0.93	20	0.92	532	6	1.89	34	550	12	0.05	14	17	320	<20	0.50
1041		0.92	20	1.17	467	5	2.65	30	690	16	0.04	6	11	489	<20	0.49
1042		0.84	20	1.38	505	2	2.47	71	760	16	0.02	9	12	468	<20	0.44
1043		0.89	20	1.21	480	3	2.23	50	770	16	0.03	9	13	413	<20	0.47
1044		0.84	20	0.74	783	3	1.38	36	710	17	0.02	15	14	265	<20	0.38
1045		1.10	20	0.70	408	2	2.30	25	740	15	0.02	12	10	396	<20	0.36
1046		1.19	20	0.89	710	3	2.12	26	610	20	0.04	13	17	267	<20	0.44
1047		1.42	20	0.70	361	3	2.61	24	500	22	0.01	9	8	427	<20	0.37
1048		1.18	20	0.95	733	5	2.08	25	590	17	0.06	43	15	390	<20	0.44
1049		1.18	20	0.95	1140	4	1.89	30	830	19	0.07	54	17	355	<20	0.43
1050		1.23	20	0.99	865	5	2.10	26	930	16	0.10	33	15	414	<20	0.43
1050B		1.23	20	1.03	1025	5	2.02	30	970	18	0.09	42	16	385	<20	0.47
1051		1.13	20	0.80	546	10	1.07	23	960	10	0.21	28	23	164	<20	0.44



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Page: 3 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Ti	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
946		<10	<10	150	<10	118
947		<10	<10	123	<10	99
948		<10	<10	119	<10	85
949		<10	<10	66	<10	52
950		<10	<10	112	<10	84
950B		<10	<10	148	<10	98
951		<10	<10	127	<10	87
952		<10	<10	103	<10	73
953						
954		<10	<10	162	<10	200
955		<10	<10	139	<10	143
956		<10	<10	146	<10	269
993		<10	40	64	<10	42
994		<10	10	104	<10	92
995		<10	<10	90	<10	75
996		<10	<10	144	<10	111
997		<10	<10	131	<10	87
998		<10	<10	126	<10	71
999		<10	<10	107	<10	97
1000		<10	<10	92	<10	77
1000B		<10	<10	108	<10	75
1001		<10	<10	134	<10	121
1002		<10	<10	134	<10	155
1003		<10	<10	176	<10	174
1004		<10	<10	172	<10	276
1005		<10	<10	163	<10	179
1006		<10	<10	155	<10	172
1040		<10	<10	151	<10	147
1041		<10	<10	135	<10	85
1042		<10	<10	137	<10	107
1043		<10	<10	145	<10	120
1044		<10	<10	133	<10	104
1045		<10	<10	107	<10	89
1046		<10	<10	151	<10	110
1047		<10	<10	94	<10	92
1048		<10	<10	135	<10	137
1049		<10	<10	132	<10	161
1050		<10	<10	135	<10	148
1050B		<10	<10	153	<10	164
1051		<10	<10	186	<10	146



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Page: 4 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %	ME- ICP61 Ga ppm
1096		0.76	0.010	<0.5	8.94	154	890	1.0	<2	1.31	0.6	13	44	58	5.51	20
1097		0.72	0.007	<0.5	8.32	172	660	1.1	<2	1.95	0.8	14	45	40	4.87	20
1144		0.72	0.024	<0.5	8.41	297	530	1.0	<2	2.18	0.5	14	66	51	4.58	20
1145		0.86	0.008	<0.5	8.29	148	570	1.2	<2	2.35	<0.5	14	39	30	4.11	20
1146		0.90	0.030	<0.5	8.02	173	530	1.0	<2	2.24	0.6	14	55	40	4.24	20
1147		1.00	0.005	<0.5	8.01	102	580	1.0	4	1.78	0.5	13	54	80	5.95	20
1193		0.80	0.024	<0.5	7.97	235	670	1.0	<2	1.61	<0.5	10	59	43	3.60	20
1194		0.56	0.024	<0.5	8.46	242	560	1.0	<2	1.80	<0.5	14	76	44	4.17	20
1241		0.80	0.025	<0.5	8.16	263	510	1.0	3	2.42	<0.5	15	55	48	4.07	20



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Page: 4 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	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	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	20	0.01	
1096		1.11	20	0.83	563	5	1.35	27	660	14	0.13	25	22	212	<20	0.47
1097		1.21	20	0.95	660	5	1.99	26	770	14	0.08	25	15	384	<20	0.43
1144		1.16	20	1.02	559	4	2.28	32	800	19	0.07	27	13	400	<20	0.44
1145		1.35	20	1.07	620	3	2.69	24	670	24	0.02	11	10	496	<20	0.42
1146		1.23	20	1.09	606	4	2.42	27	880	26	0.04	13	11	474	<20	0.45
1147		0.98	20	0.87	370	19	1.77	31	1040	10	0.39	22	24	244	<20	0.46
1193		1.59	20	0.62	354	5	2.46	25	620	19	0.01	17	7	420	<20	0.38
1194		1.31	20	0.87	476	6	2.43	30	800	23	0.02	17	9	415	<20	0.44
1241		1.17	20	1.07	962	3	2.62	25	930	41	0.02	29	10	543	<20	0.45



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Page: 4 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Tl	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		10	10	1	10	2
1096		<10	<10	178	<10	144
1097		<10	<10	134	<10	107
1144		<10	<10	135	<10	132
1145		<10	<10	110	<10	108
1146		<10	<10	120	<10	110
1147		<10	<10	227	<10	79
1193		<10	<10	103	<10	88
1194		<10	<10	120	<10	110
1241		<10	<10	121	<10	112





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Page: 1  
Finalized Date: 18- AUG- 2011  
Account: ELGFEC

**CERTIFICATE VA11138817**

Project: Eldorado  
P.O. No.: ELD- 2011- 003r  
This report is for 132 Rock samples submitted to our lab in Vancouver, BC, Canada on 21- JUL- 2011.

The following have access to data associated with this certificate:

ELEANOR BLACK  
TWILA SKINNER

MATT ECKFELDT  
ARNAND VAN HEERDEN

ROSS SHERLOCK

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

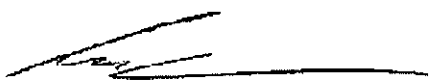
**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: GFE EXPLORATION CORPORATION  
ATTN: ELEANOR BLACK  
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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:

  
Colin Ramshaw, Vancouver Laboratory Manager







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Page: 2 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		TI	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		10	10	1	10	2
4172		10	<10	169	<10	119
4173		<10	<10	148	<10	113
4174		<10	<10	191	40	153
4175		<10	<10	150	<10	104
4175B		<10	<10	144	<10	134
4176		<10	<10	107	30	96
4177		<10	<10	135	10	92
4178		<10	<10	106	10	82
4179		<10	<10	178	<10	118
4180		<10	<10	139	20	104
4181		10	<10	117	10	79
4182		<10	<10	171	<10	239
4183		<10	<10	103	<10	116
4184		<10	<10	45	<10	20
4185		<10	<10	121	50	114
4185A		<10	<10	108	10	71
4186		<10	<10	93	<10	74
4187		<10	<10	137	<10	163
4188		<10	<10	152	<10	152
4189		<10	<10	147	<10	155
4190		<10	<10	61	<10	88
4191		<10	<10	113	<10	84
4192		<10	<10	155	<10	108
4193		<10	<10	119	<10	70
4194		10	<10	100	<10	105
4195		<10	<10	138	<10	124
4196		<10	<10	138	<10	455
4197		<10	<10	137	<10	110
4198		<10	<10	132	<10	118
4199		<10	<10	144	<10	113
4200		<10	<10	72	<10	56
4200B		<10	<10	126	<10	71
4201		<10	<10	108	<10	97
4202		<10	<10	82	<10	65
4203		<10	<10	104	<10	89
4204		<10	<10	121	<10	84
4205						
4206		<10	<10	144	<10	96
4207		<10	<10	152	<10	109
4208						



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Page: 3 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
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**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %	ME- ICP61 Ga ppm
		.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
4209		0.90	0.006	0.6	8.46	74	590	1.0	<2	1.56	1.1	14	38	33	4.20	20
4210		0.66	0.003	<0.5	7.04	102	480	1.1	<2	2.67	0.5	10	21	23	3.92	20
4210A		0.12	0.230	2.3	7.17	27	1490	1.1	<2	1.97	1.2	17	97	1855	4.28	20
4211		0.62	<0.001	<0.5	8.10	22	580	1.2	<2	2.19	0.6	11	19	14	3.16	20
4212		0.82	0.003	<0.5	8.48	126	560	0.9	<2	0.88	0.7	16	42	42	5.15	20
4213		0.92	0.004	<0.5	8.30	44	860	0.9	<2	1.13	0.6	8	39	37	4.70	20
4214		0.84	0.002	<0.5	7.75	41	540	1.2	<2	2.58	<0.5	7	21	14	1.82	20
4215		0.94	0.010	<0.5	8.52	79	600	1.0	<2	1.50	0.5	14	60	33	4.24	20
4216		0.72	0.016	<0.5	7.58	35	550	1.0	<2	1.60	<0.5	12	158	17	3.21	20
4217		0.78	0.004	<0.5	8.19	66	570	1.0	<2	1.60	<0.5	12	118	26	4.33	20
4218		0.96	0.005	<0.5	6.52	18	380	0.8	<2	0.76	<0.5	12	81	27	3.65	10
4219		1.54	0.001	0.5	8.43	8	870	1.0	<2	0.70	<0.5	24	157	54	5.55	20
4220		0.90	<0.001	<0.5	5.79	11	340	0.8	<2	0.49	<0.5	15	100	34	3.98	10
4221		1.54	<0.001	<0.5	6.04	12	390	0.7	<2	0.48	<0.5	14	121	35	3.89	10
4222		0.92	<0.001	<0.5	7.54	15	760	0.9	<2	0.44	0.5	20	174	46	5.05	20
4223		0.92	<0.001	<0.5	7.15	9	460	0.9	<2	0.80	<0.5	18	137	33	4.33	20
4224		0.90	0.001	<0.5	6.11	9	450	0.8	<2	0.44	<0.5	20	197	41	4.19	10
4225		0.62	<0.001	<0.5	7.11	7	410	0.9	<2	0.81	<0.5	21	190	36	4.68	20
4225B		0.76	0.003	<0.5	7.22	7	400	0.9	<2	0.73	<0.5	20	198	48	4.78	20
4226		0.54	0.001	0.6	7.32	28	530	1.1	<2	2.88	0.7	9	21	25	2.72	20
4227		0.62	0.002	<0.5	8.39	46	590	1.1	<2	1.98	0.9	9	29	24	3.84	20
4228		0.70	0.001	0.5	8.16	73	620	0.8	<2	1.35	1.0	11	34	28	4.25	20
4229		0.76	0.002	0.5	8.23	51	670	0.9	<2	1.02	0.9	9	40	29	4.59	20
4230		1.02	0.002	0.6	8.79	24	920	0.9	<2	0.56	0.7	12	41	49	5.54	20
4231		1.46	0.003	0.7	8.39	25	650	0.9	<2	1.63	1.0	10	43	40	4.50	20
4232		0.50	0.001	0.5	7.85	25	590	1.2	<2	1.95	<0.5	9	28	13	3.02	20
4233		0.98	0.004	<0.5	8.38	66	760	0.9	<2	0.73	0.5	13	51	47	5.16	20
4234		0.72	0.007	<0.5	7.76	214	540	1.0	<2	2.14	0.5	12	60	18	3.49	20
4235		0.76	0.008	<0.5	7.57	53	550	1.0	<2	1.56	<0.5	12	76	22	3.46	20
4235A		Not Recvd														
4236		0.88	<0.001	<0.5	5.07	45	330	0.7	<2	0.50	0.5	11	101	25	3.38	10
4237		0.96	0.001	<0.5	9.23	18	530	1.1	<2	0.51	<0.5	19	67	50	4.76	20
4238		0.96	<0.001	<0.5	6.49	16	390	0.7	<2	0.66	<0.5	10	91	25	3.79	20
4239		1.04	<0.001	<0.5	6.18	10	340	0.8	<2	0.77	<0.5	13	86	24	3.86	20
4240		0.84	<0.001	<0.5	5.82	30	320	0.8	<2	0.26	<0.5	18	109	34	4.47	10
4241		0.70	<0.001	<0.5	7.19	7	490	1.0	<2	1.79	<0.5	10	59	15	3.21	20
4242		1.24	0.001	<0.5	7.30	26	400	0.9	<2	0.41	<0.5	19	128	44	5.37	20
4243		0.72	<0.001	<0.5	6.83	12	410	0.8	<2	0.66	<0.5	17	133	33	4.53	20
4244		0.74	<0.001	<0.5	6.22	25	460	0.8	<2	0.41	<0.5	20	177	41	4.76	10
4245		0.66	<0.001	<0.5	7.66	9	510	1.2	<2	2.19	<0.5	8	34	9	2.85	20



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Page: 3 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138817**

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 Units LOR	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
4209		1.01	10	0.75	1205	2	2.02	29	580	14	0.02	10	13	368	<20	0.40
4210		1.15	20	0.88	693	2	2.09	19	1280	9	0.17	<5	9	418	<20	0.30
4210A		3.49	20	0.95	378	171	0.95	18	770	26	1.94	14	11	223	<20	0.24
4211		1.43	10	0.86	689	2	2.64	14	510	6	0.02	<5	10	492	<20	0.34
4212		0.94	10	0.93	492	3	1.44	27	550	6	0.03	13	17	212	<20	0.48
4213		1.15	10	0.85	584	4	1.58	21	600	15	0.09	7	19	240	<20	0.45
4214		1.43	10	0.90	525	7	2.79	12	910	12	0.16	20	7	546	<20	0.28
4215		1.26	10	1.02	482	2	2.12	41	730	12	0.07	12	12	346	<20	0.43
4216		1.31	10	1.51	598	2	2.42	90	590	10	0.01	<5	9	408	<20	0.40
4217		1.20	20	1.31	507	2	1.97	62	980	7	0.02	9	13	344	<20	0.48
4218		0.88	10	0.88	549	1	1.36	46	570	5	0.01	<5	12	215	<20	0.38
4219		1.65	10	1.10	615	<1	1.08	90	440	7	0.01	<5	20	133	<20	0.55
4220		0.63	10	0.59	647	<1	1.59	50	960	3	0.01	<5	11	218	<20	0.44
4221		0.75	10	1.17	611	<1	1.20	65	770	<2	0.01	<5	14	95	<20	0.45
4222		0.92	20	0.37	1035	<1	0.76	83	1010	2	0.01	6	21	425	<20	0.66
4223		0.89	10	1.03	923	1	1.56	71	880	3	0.01	<5	13	254	<20	0.50
4224		0.85	10	1.44	687	<1	1.33	126	620	5	0.01	<5	16	149	<20	0.48
4225		0.86	10	1.40	1080	1	1.42	102	1030	6	0.03	<5	13	220	<20	0.51
4225B		0.87	10	1.46	1000	1	1.36	125	1060	7	0.03	6	14	202	<20	0.54
4226		1.30	20	0.80	779	2	2.46	16	910	13	0.07	<5	8	495	<20	0.28
4227		1.23	10	0.83	595	2	2.24	16	590	8	0.04	9	12	430	<20	0.39
4228		1.02	10	0.81	528	2	1.69	19	640	7	0.03	10	15	291	<20	0.43
4229		1.05	10	0.80	488	4	1.67	20	490	11	0.03	8	17	247	<20	0.47
4230		1.24	10	0.68	518	4	1.69	19	1000	6	0.01	<5	21	201	<20	0.52
4231		1.07	10	0.82	583	5	2.03	25	740	9	0.08	8	16	315	<20	0.43
4232		1.42	20	0.84	585	3	2.67	15	610	10	0.01	<5	9	473	<20	0.36
4233		1.08	10	0.91	502	5	1.46	38	920	11	0.03	10	18	207	<20	0.44
4234		1.20	10	1.09	588	2	2.56	32	570	11	0.01	16	9	479	<20	0.39
4235		1.17	10	1.07	633	2	2.10	38	750	10	0.02	7	10	374	<20	0.42
4235A																
4236		0.61	10	0.46	311	1	0.94	54	720	3	0.01	<5	9	227	<20	0.42
4237		1.28	20	1.23	706	1	1.55	42	710	4	0.01	8	16	240	<20	0.45
4238		0.83	10	0.85	416	1	1.38	46	590	2	0.01	<5	12	213	<20	0.41
4239		0.67	10	0.85	541	2	1.58	45	890	7	0.01	<5	10	206	<20	0.43
4240		0.57	10	0.29	882	1	0.90	56	850	5	0.01	13	15	280	<20	0.49
4241		1.18	10	0.98	858	1	2.43	32	600	6	0.01	<5	9	421	<20	0.33
4242		0.82	10	0.52	978	1	1.37	69	940	5	0.01	12	21	183	<20	0.59
4243		0.79	10	0.86	1170	1	1.48	63	800	9	0.01	<5	14	199	<20	0.51
4244		0.81	10	0.66	788	1	0.96	102	730	5	0.02	7	17	192	<20	0.44
4245		1.27	10	0.75	608	2	2.76	17	450	7	0.01	<5	7	553	<20	0.31



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Page: 3 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Ti	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		10	10	1	10	2
4209		<10	<10	123	<10	179
4210		<10	<10	86	<10	52
4210A		<10	<10	108	20	71
4211		<10	<10	87	<10	83
4212		<10	<10	162	<10	141
4213		<10	<10	153	<10	103
4214		<10	<10	41	<10	54
4215		<10	<10	126	<10	131
4216		<10	<10	99	<10	69
4217		<10	<10	129	<10	113
4218		<10	<10	117	<10	76
4219		<10	<10	180	<10	117
4220		<10	<10	112	<10	72
4221		<10	<10	122	<10	77
4222		<10	<10	169	<10	95
4223		<10	<10	129	<10	94
4224		<10	<10	126	<10	82
4225		<10	<10	137	<10	107
4225B		<10	<10	138	<10	119
4226		<10	<10	63	<10	64
4227		<10	<10	108	<10	115
4228		<10	<10	130	<10	117
4229		<10	<10	160	<10	117
4230		<10	<10	172	<10	179
4231		<10	<10	136	<10	173
4232		<10	<10	84	<10	71
4233		<10	<10	159	<10	162
4234		<10	<10	102	<10	71
4235		<10	<10	107	<10	84
4235A						
4236		<10	<10	100	<10	64
4237		<10	<10	162	<10	105
4238		<10	<10	123	<10	76
4239		<10	<10	108	<10	95
4240		<10	<10	120	10	83
4241		<10	<10	81	<10	66
4242		<10	<10	155	<10	99
4243		<10	<10	127	<10	97
4244		<10	<10	123	<10	90
4245		<10	<10	72	<10	55



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Page: 4 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	WEI- Z1 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %	ME- ICP61 Ga ppm
		.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
4246		1.00	0.005	<0.5	7.71	92	510	0.8	<2	1.69	<0.5	10	38	31	4.11	20
4247		0.80	0.011	<0.5	8.55	244	680	0.8	<2	1.28	1.9	12	36	48	5.26	20
4248		0.64	<0.001	<0.5	7.71	34	590	1.1	<2	1.99	<0.5	9	23	16	3.22	20
4249		0.72	<0.001	<0.5	8.17	41	640	0.9	<2	0.88	0.6	10	47	29	4.80	20
4250		1.08	0.001	<0.5	8.88	44	760	0.9	<2	0.58	<0.5	13	62	45	5.16	20
4250B		1.12	0.002	<0.5	8.07	36	680	0.9	<2	0.84	<0.5	11	41	38	4.66	20
4251		1.04	0.018	<0.5	8.55	26	810	0.9	<2	0.47	<0.5	12	46	52	5.06	20
4252		0.76	0.006	<0.5	8.12	56	760	0.9	<2	1.01	<0.5	10	47	38	4.55	20
4253		0.92	0.162	<0.5	7.97	82	570	0.9	<2	1.49	<0.5	10	49	28	4.07	20
4254		0.70	0.007	<0.5	7.61	69	520	0.9	<2	1.46	<0.5	7	63	19	3.74	20
4255		0.82	0.007	<0.5	8.32	134	600	0.9	<2	1.38	<0.5	17	93	21	4.65	20
4256		1.04	0.001	<0.5	6.31	34	350	0.8	<2	0.41	<0.5	20	117	40	4.70	10
4257		0.66	<0.001	<0.5	8.25	19	480	1.0	<2	1.02	<0.5	13	60	30	4.24	20
4258		0.78	<0.001	<0.5	6.31	25	350	0.7	<2	0.57	<0.5	12	115	23	4.45	20
4259		1.08	<0.001	<0.5	6.16	17	400	0.8	<2	0.69	<0.5	14	94	30	4.04	10
4260		1.04	<0.001	<0.5	6.47	16	330	0.8	<2	0.35	<0.5	17	135	37	4.84	20
4260A		0.12	0.242	1.8	6.88	28	1420	1.1	<2	1.97	0.7	16	99	1690	4.28	20
4261		0.66	<0.001	<0.5	7.69	<5	470	1.1	<2	1.86	<0.5	12	54	19	3.40	20
4262		1.42	<0.001	<0.5	6.43	20	370	0.8	<2	0.35	<0.5	18	149	36	4.65	20
4263		0.74	<0.001	<0.5	6.75	18	400	0.9	<2	0.85	<0.5	17	119	31	4.40	20
4264		0.70	<0.001	<0.5	6.91	13	480	0.9	<2	1.24	<0.5	14	107	26	3.96	20
4265		0.90	<0.001	<0.5	7.93	<5	520	1.2	<2	2.25	<0.5	9	34	10	2.88	20
4266		0.86	0.004	<0.5	8.03	103	550	0.8	<2	1.47	<0.5	10	40	28	4.13	20
4267		1.22	0.007	<0.5	7.29	112	670	0.8	<2	1.43	0.5	10	33	49	4.90	20
4268		0.76	0.003	<0.5	8.16	86	720	0.8	<2	0.90	<0.5	11	41	41	5.10	20
4269		0.92	<0.001	<0.5	8.31	26	510	0.9	<2	1.11	<0.5	11	29	30	4.81	20
4270		1.02	0.001	<0.5	7.98	28	570	0.8	<2	0.83	<0.5	15	40	36	4.94	20
4271		1.04	0.014	<0.5	8.35	45	680	0.9	<2	1.40	<0.5	11	54	40	4.65	20
4272		0.76	0.002	<0.5	8.50	80	550	0.9	<2	0.76	<0.5	16	52	41	5.48	20
4273		1.10	0.006	<0.5	8.41	39	880	0.9	<2	0.86	<0.5	10	47	44	4.55	20
4274		0.84	0.036	<0.5	7.89	93	580	0.9	<2	1.57	<0.5	11	55	24	3.72	20
4275		0.90	0.037	<0.5	7.94	223	560	1.0	<2	1.48	<0.5	11	83	32	3.79	20
4275B		0.74	0.006	<0.5	7.73	115	620	1.0	<2	1.71	<0.5	10	91	30	3.80	20
4276		0.90	0.001	<0.5	5.21	22	330	0.7	<2	0.63	<0.5	11	111	24	3.63	10
4277		0.66	0.001	<0.5	8.59	12	480	1.0	<2	1.39	<0.5	11	56	27	4.45	20
4278		0.92	0.001	<0.5	6.15	23	380	0.8	<2	0.69	<0.5	13	107	31	4.00	10
4279		0.94	<0.001	<0.5	6.18	5	390	0.8	<2	0.86	<0.5	15	110	36	4.04	10
4280		0.62	0.001	<0.5	7.97	9	490	1.1	<2	2.02	<0.5	10	51	16	3.59	20
4281		0.76	<0.001	<0.5	7.44	8	480	1.0	<2	1.15	<0.5	12	89	24	3.90	20
4282		0.86	<0.001	<0.5	5.72	<5	350	0.7	<2	0.28	<0.5	15	109	35	4.04	10





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Page: 4 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	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	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
4246		0.80	10	0.78	621	2	1.67	23	530	8	0.03	5	17	339	<20	0.39
4247		0.95	10	0.60	818	3	0.96	21	840	12	0.11	29	23	180	<20	0.43
4248		1.35	10	0.76	777	2	2.44	15	930	11	0.03	<5	10	443	<20	0.34
4249		1.05	10	0.79	411	4	1.69	22	790	9	0.02	<5	17	260	<20	0.45
4250		1.12	10	0.71	394	5	1.56	27	590	8	0.03	6	21	207	<20	0.51
4250B		1.05	10	0.70	617	4	1.68	21	750	9	0.04	5	17	245	<20	0.40
4251		1.05	10	0.82	434	6	1.63	24	680	7	0.06	<5	23	185	<20	0.46
4252		1.13	10	0.81	579	4	1.82	26	1000	12	0.03	5	18	263	<20	0.44
4253		1.20	10	0.89	439	3	2.13	28	840	11	0.03	6	12	364	<20	0.38
4254		1.13	10	0.81	400	3	2.02	21	760	14	0.01	5	10	353	<20	0.42
4255		1.33	10	1.11	800	4	1.93	39	660	16	0.02	11	13	353	<20	0.48
4256		0.80	10	0.55	760	2	0.88	65	730	6	0.01	<5	14	192	<20	0.44
4257		1.16	10	1.00	604	2	1.79	37	540	8	0.01	<5	13	302	<20	0.40
4258		0.77	10	0.86	438	2	1.15	48	970	6	0.01	<5	13	179	<20	0.42
4259		0.73	10	0.99	571	1	1.42	53	770	6	0.01	<5	13	163	<20	0.43
4260		0.67	10	0.71	636	1	1.44	58	750	6	0.01	5	16	209	<20	0.52
4260A		3.37	20	0.91	363	157	0.91	16	730	25	1.80	8	11	220	<20	0.23
4261		1.14	10	0.90	1125	2	2.46	29	900	9	0.01	<5	9	442	<20	0.34
4262		0.79	10	0.75	863	1	1.39	63	810	5	0.01	5	17	152	<20	0.50
4263		0.84	10	0.95	894	2	1.53	59	760	7	0.01	<5	13	269	<20	0.45
4264		0.93	10	0.60	649	1	1.80	51	560	7	0.01	<5	11	393	<20	0.39
4265		1.32	10	0.81	595	2	2.83	18	600	7	0.01	<5	7	561	<20	0.31
4266		0.88	10	0.76	731	2	1.92	20	530	9	0.02	6	16	326	<20	0.39
4267		0.93	10	0.60	675	2	1.24	16	700	10	0.12	18	18	193	<20	0.43
4268		0.93	10	0.77	566	3	1.34	25	1020	8	0.07	10	20	193	<20	0.46
4269		0.99	10	0.70	493	2	1.81	15	580	9	0.01	<5	15	320	<20	0.41
4270		0.79	10	0.60	643	3	1.51	19	470	7	0.02	<5	18	227	<20	0.45
4271		0.98	10	0.91	532	6	1.88	24	740	9	0.04	6	19	291	<20	0.44
4272		1.01	10	0.82	451	3	1.56	41	1230	8	0.02	5	16	244	<20	0.43
4273		1.17	20	0.91	513	5	1.70	27	620	8	0.05	8	21	199	<20	0.44
4274		1.18	20	0.90	605	3	2.21	33	710	12	0.02	7	10	369	<20	0.40
4275		1.28	20	1.02	444	2	1.97	48	800	12	0.01	8	10	344	<20	0.39
4275B		1.32	20	1.20	446	3	2.05	51	920	13	0.05	9	12	342	<20	0.41
4276		0.72	20	0.57	454	1	1.17	52	980	8	0.01	<5	10	193	<20	0.43
4277		1.22	20	1.00	395	1	1.89	33	760	11	0.01	<5	13	321	<20	0.43
4278		0.87	20	1.04	609	1	1.25	58	740	7	0.03	<5	13	181	<20	0.39
4279		0.80	20	1.20	574	1	1.65	57	650	6	0.01	<5	13	181	<20	0.45
4280		1.22	30	1.07	602	1	2.79	27	450	8	0.01	<5	10	467	<20	0.39
4281		1.04	20	1.01	723	1	1.99	47	540	7	0.01	<5	11	298	<20	0.43
4282		0.71	20	1.09	621	1	1.23	69	590	7	0.01	<5	13	103	<20	0.45



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Page: 4 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		TI	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
4246	<10	<10	126	<10	101	
4247	<10	<10	147	<10	181	
4248	<10	<10	83	<10	85	
4249	<10	<10	160	<10	132	
4250	<10	<10	175	<10	137	
4250B	<10	<10	142	<10	123	
4251	<10	<10	166	<10	158	
4252	<10	<10	150	<10	131	
4253	<10	<10	115	<10	109	
4254	<10	<10	111	<10	76	
4255	<10	<10	139	<10	104	
4256	<10	<10	134	<10	94	
4257	<10	<10	130	<10	90	
4258	<10	<10	129	<10	132	
4259	<10	<10	116	<10	88	
4260	<10	<10	132	<10	84	
4260A	<10	<10	103	20	69	
4261	<10	<10	88	<10	71	
4262	<10	<10	131	<10	88	
4263	<10	<10	125	<10	78	
4264	<10	<10	100	<10	76	
4265	<10	<10	70	<10	56	
4266	<10	<10	122	<10	92	
4267	<10	<10	149	<10	158	
4268	<10	<10	162	<10	147	
4269	<10	<10	116	<10	106	
4270	<10	<10	134	<10	124	
4271	<10	<10	144	<10	142	
4272	<10	<10	155	<10	192	
4273	<10	<10	165	<10	120	
4274	<10	<10	111	<10	124	
4275	<10	<10	109	<10	88	
4275B	<10	<10	121	<10	87	
4276	<10	<10	104	<10	77	
4277	<10	<10	143	<10	110	
4278	<10	<10	124	<10	77	
4279	<10	<10	124	<10	77	
4280	<10	<10	93	<10	68	
4281	<10	<10	110	<10	80	
4282	<10	<10	118	<10	81	



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Page: 5 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	0.01	10	
4283		0.82	<0.001	<0.5	6.40	6	310	0.7	<2	0.36	<0.5	14	123	31	4.48	20
4284		0.68	<0.001	<0.5	7.85	<5	550	1.2	<2	2.17	<0.5	8	46	12	2.97	20
4285		0.62	<0.001	<0.5	7.28	5	490	1.1	<2	1.93	<0.5	7	44	12	2.83	20
4285A		0.12	0.213	2.0	7.71	27	1580	1.2	<2	2.16	0.9	16	106	1815	4.56	20
4286		1.02	0.003	<0.5	8.00	60	630	0.8	<2	1.26	0.9	10	39	32	4.07	20
4287		0.74	0.001	<0.5	8.02	41	660	1.0	<2	1.91	0.9	8	28	25	3.72	20
4288		0.68	0.001	<0.5	7.80	70	620	0.7	<2	1.17	0.5	11	36	29	4.28	20
4289		0.66	0.005	<0.5	7.53	34	540	0.9	<2	1.45	1.4	8	30	18	3.68	20
4290		1.28	0.001	<0.5	8.40	29	640	0.8	<2	0.89	0.6	11	39	31	5.10	20
4291		0.94	0.003	<0.5	8.16	27	740	0.9	<2	0.89	0.5	12	46	43	4.84	20
4292		0.90	0.012	<0.5	8.35	60	810	0.9	<2	1.09	<0.5	7	52	38	4.83	20
4293		1.20	0.010	<0.5	8.08	101	660	1.0	<2	1.85	<0.5	10	54	30	3.66	20



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Page: 5 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	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	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
4283		0.68	20	1.15	1185	<1	1.42	56	670	7	0.01	<5	13	147	<20	0.46
4284		1.34	30	0.80	585	3	2.86	23	710	12	0.01	<5	8	522	<20	0.36
4285		1.19	20	0.72	459	2	2.57	19	560	6	0.01	<5	8	468	<20	0.37
4285A		3.54	40	1.04	400	163	1.01	19	770	28	1.96	12	12	236	<20	0.25
4286		0.91	20	0.60	638	2	1.58	21	630	7	0.04	12	18	226	<20	0.44
4287		1.24	20	0.78	909	2	2.15	18	790	11	0.03	7	14	361	<20	0.40
4288		0.85	20	0.76	802	2	1.67	17	550	7	0.04	7	18	275	<20	0.45
4289		1.03	20	0.71	507	2	2.06	17	520	7	0.02	<5	11	343	<20	0.38
4290		0.78	20	0.53	537	2	1.49	19	440	7	0.02	<5	19	219	<20	0.48
4291		0.94	20	0.89	517	4	1.90	26	640	7	0.07	6	19	237	<20	0.46
4292		1.14	20	0.90	487	4	1.91	23	850	9	0.05	11	20	241	<20	0.48
4293		1.26	20	1.00	453	2	2.40	32	710	11	0.07	14	12	394	<20	0.39



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Page: 5 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		TI	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		10	10	1	10	2
4283		<10	<10	129	<10	94
4284		<10	<10	82	<10	60
4285		<10	<10	78	<10	49
4285A		<10	<10	111	20	74
4286		<10	<10	146	10	125
4287		<10	<10	120	<10	124
4288		<10	<10	146	<10	116
4289		<10	<10	102	<10	102
4290		<10	<10	144	<10	156
4291		<10	<10	158	<10	135
4292		<10	<10	170	<10	143
4293		<10	<10	123	<10	89



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Page: 1  
 Finalized Date: 18- AUG- 2011  
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**CERTIFICATE VA11138816**

Project: Eldorado  
 P.O. No.: ELD- 2011- 003r  
 This report is for 89 Rock samples submitted to our lab in Vancouver, BC, Canada on 21-JUL- 2011.

The following have access to data associated with this certificate:

ELEANOR BLACK  
 TWILA SKINNER

MATT ECKFELDT  
 ARNAND VAN HEERDEN

ROSS SHERLOCK

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

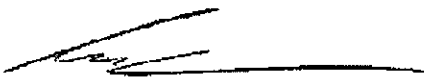
**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES

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 ATTN: ELEANOR BLACK  
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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:



Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	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
		Recvd Wt. kg .02	Au ppm 0.001	Ag ppm 0.5	Al % 0.01	As ppm 5	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01	Ga ppm 10
581		0.50	0.003	<0.5	7.52	56	540	1.1	<2	1.94	<0.5	9	29	23	3.94	20
582		0.46	0.005	<0.5	7.81	57	540	0.9	<2	1.98	<0.5	9	31	33	4.23	20
583		0.46	0.003	<0.5	7.64	77	530	1.1	<2	2.01	<0.5	10	24	16	3.54	20
584		0.72	0.003	<0.5	8.20	64	870	0.8	<2	1.20	<0.5	11	36	38	4.90	20
585		0.82	0.003	<0.5	8.30	63	870	0.8	<2	0.98	<0.5	10	38	42	5.22	20
585A		0.12	0.224	1.9	6.85	34	1500	1.1	4	2.04	1.0	16	101	1745	4.47	20
586		0.68	0.003	<0.5	7.98	62	810	0.9	<2	1.00	<0.5	9	35	36	4.77	20
587		0.58	0.004	<0.5	7.61	76	770	0.9	<2	1.27	<0.5	13	36	33	4.56	20
588		0.66	0.003	<0.5	7.89	42	800	0.8	<2	1.47	<0.5	10	37	34	4.59	20
589		0.60	0.002	<0.5	8.03	54	820	0.8	<2	1.00	<0.5	9	45	37	4.97	20
590		0.52	0.004	<0.5	7.60	57	670	1.0	<2	1.48	<0.5	9	36	30	4.13	20
591		0.56	0.004	<0.5	7.98	53	730	0.8	<2	0.87	<0.5	8	51	33	5.41	20
592		0.62	0.009	<0.5	7.87	48	700	0.8	<2	0.69	0.5	11	53	36	5.11	20
593		0.64	0.003	<0.5	8.36	38	820	0.9	<2	1.03	<0.5	11	43	44	4.94	20
594		0.56	0.006	<0.5	7.62	45	750	0.9	<2	0.97	<0.5	8	40	42	4.80	20
595		0.62	0.003	<0.5	8.41	39	820	0.9	2	0.38	<0.5	11	45	56	5.41	20
652		0.48	0.004	<0.5	8.32	67	810	0.9	<2	1.55	<0.5	10	39	45	5.47	20
653		0.58	0.003	0.6	8.32	57	960	0.8	3	1.14	<0.5	7	47	40	5.44	20
654		0.64	0.003	<0.5	8.49	55	710	0.9	<2	0.69	<0.5	13	48	64	5.59	20
655		0.44	0.004	<0.5	7.85	43	610	1.2	<2	1.98	<0.5	7	23	16	3.27	20
656		0.82	0.003	<0.5	8.17	54	850	0.9	<2	0.89	<0.5	17	47	50	4.93	20
657		0.74	0.002	0.5	7.93	46	780	0.9	<2	1.06	<0.5	9	45	36	4.68	20
658		0.74	0.004	<0.5	7.93	32	750	0.8	<2	0.33	<0.5	9	45	59	5.41	20
659		0.50	0.006	<0.5	7.85	43	620	1.2	<2	2.04	<0.5	9	28	16	3.51	20
660		0.60	0.005	0.5	7.51	35	810	1.0	<2	0.99	<0.5	7	39	28	4.19	20
660A		0.12	0.198	2.0	7.40	28	1560	1.1	3	2.09	0.9	15	105	1765	4.47	20
661		0.52	0.004	0.6	7.79	39	670	1.1	<2	1.74	<0.5	9	32	25	3.89	20
662		0.38	0.002	<0.5	8.06	36	740	1.0	2	1.25	<0.5	9	38	32	4.65	20
663		0.68	0.003	0.8	8.19	45	760	1.0	<2	1.07	0.8	9	44	35	4.66	20
816		2.14	0.011	<0.5	7.63	171	660	0.8	<2	1.67	0.5	11	60	44	4.01	20
817		1.82	0.012	<0.5	8.01	210	490	0.9	<2	2.68	<0.5	15	91	29	3.86	20
818		0.98	0.010	<0.5	6.50	175	470	0.8	<2	1.90	<0.5	11	71	36	3.88	20
819		1.06	0.019	<0.5	7.27	183	480	0.8	<2	1.10	<0.5	15	52	35	4.29	20
820		0.90	0.004	<0.5	7.55	86	610	0.8	<2	1.21	<0.5	9	35	32	4.01	20
880		1.12	0.019	<0.5	7.48	144	650	0.8	<2	1.87	<0.5	9	31	35	4.09	20
881		0.78	0.008	<0.5	7.54	77	590	0.9	<2	1.95	<0.5	13	50	25	4.12	20
882		1.38	0.018	<0.5	7.99	283	510	1.0	<2	2.89	<0.5	13	77	26	3.71	20
883		0.84	0.018	<0.5	7.70	117	440	0.9	<2	1.73	<0.5	13	68	23	3.83	20
884		1.26	0.005	<0.5	7.59	111	690	0.8	<2	0.89	<0.5	8	36	29	4.13	20
945		0.68	0.026	<0.5	7.67	32	630	1.1	<2	2.12	<0.5	7	17	14	3.18	20



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Page: 2 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	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	
		K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sc ppm 1	Sr ppm 1	Th ppm 20	Ti % 0.01
581		1.35	20	0.85	636	3	2.46	16	430	10	0.03	5	11	424	<20	0.37
582		1.19	20	0.80	585	3	2.16	16	600	8	0.09	7	16	352	<20	0.41
583		1.38	20	0.87	679	2	2.70	16	420	12	0.01	8	9	460	<20	0.33
584		1.09	20	0.98	558	2	1.70	23	650	5	0.05	9	19	250	<20	0.43
585		1.11	20	0.84	555	3	1.22	20	630	10	0.09	10	23	162	<20	0.47
585A		3.51	30	0.94	366	162	0.96	16	750	22	1.76	11	11	215	<20	0.23
586		1.15	20	0.74	627	4	1.40	21	480	10	0.04	12	19	211	<20	0.41
587		1.14	20	0.84	745	4	1.62	18	520	11	0.08	8	17	252	<20	0.41
588		1.05	20	0.82	585	3	1.61	20	600	8	0.10	10	20	249	<20	0.43
589		1.12	20	0.87	540	4	1.46	22	800	6	0.08	13	23	173	<20	0.47
590		1.34	20	0.92	485	3	2.23	19	660	9	0.02	7	15	331	<20	0.38
591		1.05	20	0.89	484	4	1.47	19	860	16	0.05	9	21	190	<20	0.48
592		1.11	20	0.80	590	7	1.35	23	1190	17	0.02	9	21	148	<20	0.47
593		1.20	20	0.87	519	4	1.66	26	770	7	0.08	9	21	217	<20	0.44
594		1.22	20	0.85	544	5	1.60	23	1140	13	0.05	11	19	222	<20	0.40
595		1.17	20	0.55	465	4	1.30	28	610	12	0.03	11	22	154	<20	0.49
652		1.19	20	0.90	710	4	1.61	20	810	15	0.18	9	20	264	<20	0.43
653		1.11	20	0.88	613	5	1.48	22	670	15	0.11	14	24	183	<20	0.51
654		1.15	20	0.77	472	8	1.23	31	660	17	0.05	18	22	155	<20	0.45
655		1.59	20	0.88	529	3	2.82	11	480	15	0.03	<5	10	458	<20	0.34
656		1.22	20	0.90	633	8	1.63	32	590	15	0.09	14	23	184	<20	0.47
657		1.22	20	0.87	513	5	1.77	23	640	15	0.05	9	19	222	<20	0.43
658		0.94	20	0.58	434	4	1.64	21	800	11	0.06	8	21	171	<20	0.48
659		1.53	20	0.89	703	3	2.71	16	500	15	0.01	6	10	460	<20	0.36
660		1.25	20	0.49	453	3	1.98	15	680	10	0.02	7	16	282	<20	0.44
660A		3.66	40	1.00	376	164	0.99	20	740	27	1.87	11	12	226	<20	0.24
661		1.39	20	0.81	877	2	2.32	19	760	15	0.02	<5	12	398	<20	0.37
662		1.18	20	0.76	470	5	2.15	23	770	12	0.03	7	16	309	<20	0.44
663		1.27	20	0.79	493	4	1.97	25	970	12	0.03	9	18	270	<20	0.45
816		0.93	20	0.96	620	4	1.99	38	700	12	0.09	8	17	317	<20	0.40
817		1.00	20	1.30	635	3	2.58	48	720	14	0.02	8	12	501	<20	0.41
818		0.83	20	1.00	472	1	2.15	37	530	11	0.01	5	11	380	<20	0.40
819		0.80	20	0.81	730	2	1.83	30	490	11	0.01	6	13	281	<20	0.43
820		0.92	20	0.78	405	2	2.02	16	610	10	0.02	<5	16	304	<20	0.43
880		0.87	20	0.65	617	7	1.93	13	990	6	0.20	11	17	268	<20	0.41
881		1.02	20	0.99	737	4	2.15	20	730	10	0.10	6	14	365	<20	0.41
882		1.03	20	1.31	657	2	2.68	44	800	14	0.02	7	11	515	<20	0.39
883		0.83	20	1.01	370	1	2.28	34	520	11	0.01	<5	10	408	<20	0.39
884		0.99	20	0.76	432	3	1.80	19	630	9	0.02	6	17	237	<20	0.44
945		1.43	20	0.78	519	2	2.71	9	470	11	0.04	<5	11	454	<20	0.35





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Page: 2 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Tl	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
581		<10	<10	106	<10	92
582		<10	<10	130	<10	107
583		<10	<10	82	<10	79
584		<10	<10	146	<10	105
585		<10	<10	160	<10	140
585A		<10	<10	107	20	71
586		<10	<10	140	<10	124
587		<10	<10	135	<10	108
588		<10	<10	146	<10	105
589		<10	<10	175	<10	132
590		<10	<10	124	<10	90
591		<10	<10	177	<10	138
592		<10	<10	186	<10	196
593		<10	<10	163	<10	112
594		<10	<10	148	<10	137
595		<10	<10	161	<10	147
652		<10	<10	148	<10	117
653		<10	<10	178	<10	125
654		<10	<10	170	<10	113
655		<10	<10	82	<10	59
656		<10	<10	189	<10	121
657		<10	<10	154	<10	127
658		<10	<10	158	<10	150
659		<10	<10	97	<10	89
660		<10	<10	125	<10	90
660A		<10	<10	106	20	71
661		<10	<10	111	<10	118
662		<10	<10	145	<10	149
663		<10	<10	153	<10	150
816		<10	<10	148	<10	109
817		<10	<10	121	<10	93
818		<10	<10	117	<10	91
819		<10	<10	131	<10	128
820		<10	<10	138	<10	90
880		<10	<10	132	<10	94
881		<10	<10	131	<10	105
882		<10	<10	109	<10	84
883		<10	<10	114	<10	88
884		<10	<10	148	<10	101
945		<10	<10	86	<10	56



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Page: 3 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	0.01	10	
946		1.10	0.021	0.5	8.17	235	570	0.8	<2	1.52	<0.5	16	61	46	4.81	10
947		1.12	0.007	<0.5	7.87	106	480	0.8	<2	1.48	<0.5	12	51	27	4.12	20
948		0.90	0.004	<0.5	8.03	93	510	1.0	<2	1.72	<0.5	12	49	27	3.94	20
949		0.74	0.001	<0.5	7.76	16	560	1.3	<2	2.48	<0.5	7	12	8	2.67	20
950		0.90	0.008	0.5	8.27	108	530	1.0	<2	1.62	<0.5	10	38	26	3.88	20
950B		0.94	0.005	<0.5	7.95	122	390	0.8	<2	0.86	<0.5	11	51	33	4.65	20
951		0.86	0.016	<0.5	7.87	969	460	0.9	<2	1.36	<0.5	13	42	44	4.13	20
952		1.06	0.083	<0.5	7.69	495	570	1.0	<2	2.29	<0.5	11	53	54	3.25	20
953		Not Recvd														
954		0.86	0.027	<0.5	8.90	586	650	0.9	<2	1.27	0.7	14	34	74	6.54	20
955		1.08	0.006	<0.5	8.12	187	550	0.9	<2	1.45	<0.5	11	36	41	4.90	20
956		1.16	0.013	<0.5	8.67	104	1310	1.0	<2	1.33	1.1	18	31	78	6.40	20
993		1.30	<0.001	<0.5	5.63	2110	430	0.8	<2	3.43	<0.5	6	22	21	4.13	10
994		1.52	0.067	<0.5	7.27	980	480	0.8	<2	2.06	0.5	12	79	35	3.56	20
995		0.82	0.002	0.5	8.60	46	590	1.3	<2	2.59	<0.5	10	32	13	3.44	20
996		0.88	0.026	<0.5	9.09	235	570	1.0	<2	2.53	<0.5	18	106	46	4.57	20
997		0.88	0.009	<0.5	8.54	164	540	1.0	<2	2.28	<0.5	14	78	36	3.97	20
998		0.72	0.008	<0.5	8.30	138	540	1.0	<2	1.78	<0.5	9	54	22	4.09	20
999		0.88	0.015	<0.5	8.39	451	570	1.0	<2	1.54	<0.5	10	52	33	3.76	20
1000		0.80	0.056	0.6	8.18	125	600	1.1	<2	1.96	<0.5	8	39	27	3.33	20
1000B		0.84	0.021	0.5	7.87	176	550	1.0	<2	1.64	<0.5	8	46	30	3.38	20
1001		0.58	0.005	<0.5	8.45	153	730	1.1	<2	1.79	0.5	11	33	39	4.91	20
1002		0.68	0.009	0.5	8.76	167	650	1.1	2	1.76	<0.5	16	40	51	5.39	20
1003		1.12	0.005	<0.5	9.21	124	910	1.0	<2	1.12	0.6	13	43	66	5.93	20
1004		1.46	0.007	0.8	9.33	185	810	1.0	<2	1.40	1.4	20	38	70	6.28	20
1005		1.20	0.017	<0.5	9.31	147	890	1.0	2	0.66	0.7	17	44	63	5.70	20
1006		0.84	0.023	0.5	9.25	222	790	1.1	2	0.83	0.7	18	47	77	6.25	20
1040		1.02	0.015	<0.5	8.53	377	640	0.9	<2	1.46	0.8	16	67	47	5.06	20
1041		0.78	0.009	<0.5	8.02	109	490	0.9	<2	2.39	<0.5	11	77	19	4.13	20
1042		0.98	0.024	<0.5	8.33	175	490	0.9	<2	2.37	<0.5	15	118	29	4.38	20
1043		0.98	0.017	<0.5	8.54	200	660	0.9	<2	2.00	<0.5	15	93	36	4.75	20
1044		0.82	0.010	0.5	8.19	210	460	0.8	<2	0.81	<0.5	17	50	54	5.00	20
1045		0.86	0.010	<0.5	8.29	149	510	0.9	<2	1.58	<0.5	10	45	32	3.80	20
1046		1.38	0.049	0.5	8.88	296	680	0.9	<2	0.88	<0.5	13	49	54	4.81	20
1047		1.06	0.026	<0.5	8.10	241	590	1.1	<2	1.77	<0.5	9	53	39	3.30	20
1048		0.62	0.007	<0.5	8.53	205	650	1.1	2	1.86	<0.5	14	45	44	5.32	20
1049		0.58	0.009	<0.5	8.89	354	750	1.1	<2	1.79	<0.5	18	42	54	5.55	20
1050		0.64	0.010	<0.5	8.49	326	680	1.1	<2	2.06	0.8	14	43	46	5.41	20
1050B		0.98	0.017	<0.5	8.84	488	690	1.2	<2	1.91	0.7	15	51	52	5.85	20
1051		0.90	0.016	<0.5	8.07	338	840	1.0	<2	1.09	0.6	11	55	62	6.38	20



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Page: 3 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	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
		K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sc ppm 1	Sr ppm 1	Th ppm 20	Ti % 0.01
946		0.85	20	0.95	736	7	1.72	32	730	10	0.05	12	19	320	<20	0.42
947		0.79	20	0.86	455	1	2.07	23	640	11	0.02	6	12	360	<20	0.41
948		1.04	20	0.94	431	1	2.31	27	790	12	0.01	6	11	415	<20	0.40
949		1.52	20	0.83	548	1	3.07	10	650	12	0.01	<5	7	579	<20	0.28
950		1.19	20	0.87	484	1	2.40	19	770	15	0.01	<5	11	423	<20	0.39
950B		0.95	20	0.93	382	1	1.68	21	850	13	0.02	<5	13	270	<20	0.44
951		0.99	20	0.92	862	1	1.77	23	660	16	0.05	16	13	319	<20	0.40
952		1.21	20	0.98	414	<1	2.63	21	630	13	0.02	14	10	449	<20	0.37
953																
954		1.10	20	0.85	636	2	1.47	23	720	18	0.07	46	20	244	<20	0.44
955		0.95	20	0.88	726	1	1.97	19	780	9	0.07	22	16	287	<20	0.38
956		1.04	20	0.78	994	2	1.33	26	760	12	0.10	21	19	228	<20	0.39
993		0.86	20	0.76	654	9	1.83	12	1150	8	0.34	41	6	449	<20	0.22
994		1.01	20	0.83	398	3	1.90	37	560	29	0.03	66	11	374	<20	0.35
995		1.47	20	0.96	563	2	3.15	18	790	13	0.01	<5	8	575	<20	0.36
996		1.02	20	1.29	522	2	2.68	52	920	14	0.01	9	13	511	<20	0.47
997		1.04	20	1.08	472	2	2.58	40	1040	13	0.03	6	12	476	<20	0.43
998		1.24	20	0.82	457	3	2.34	20	880	18	0.01	9	10	419	<20	0.46
999		1.22	20	0.73	399	2	2.27	22	680	21	0.01	15	10	385	<20	0.38
1000		1.44	20	0.71	433	3	2.72	17	590	19	0.02	11	8	460	<20	0.36
1000B		1.22	20	0.65	445	3	2.33	18	560	22	0.03	11	9	379	<20	0.39
1001		1.30	20	0.81	831	4	2.03	21	680	13	0.06	10	16	366	<20	0.40
1002		1.18	20	0.93	1150	3	1.98	29	810	16	0.05	19	15	357	<20	0.44
1003		1.07	20	0.55	806	4	0.95	25	750	10	0.09	15	24	157	<20	0.46
1004		0.95	20	0.62	1365	4	1.25	31	770	19	0.06	19	22	190	<20	0.47
1005		1.33	20	0.47	908	4	0.62	27	690	10	0.06	23	21	136	<20	0.44
1006		1.25	20	0.63	976	4	1.19	29	780	14	0.10	25	20	213	<20	0.44
1040		0.93	20	0.92	532	6	1.89	34	550	12	0.05	14	17	320	<20	0.50
1041		0.92	20	1.17	467	5	2.65	30	690	16	0.04	6	11	489	<20	0.49
1042		0.84	20	1.38	505	2	2.47	71	760	16	0.02	9	12	468	<20	0.44
1043		0.89	20	1.21	480	3	2.23	50	770	16	0.03	9	13	413	<20	0.47
1044		0.84	20	0.74	783	3	1.38	36	710	17	0.02	15	14	265	<20	0.38
1045		1.10	20	0.70	408	2	2.30	25	740	15	0.02	12	10	396	<20	0.36
1046		1.19	20	0.89	710	3	2.12	26	610	20	0.04	13	17	267	<20	0.44
1047		1.42	20	0.70	361	3	2.61	24	500	22	0.01	9	8	427	<20	0.37
1048		1.18	20	0.95	733	5	2.08	25	590	17	0.06	43	15	390	<20	0.44
1049		1.18	20	0.95	1140	4	1.89	30	830	19	0.07	54	17	355	<20	0.43
1050		1.23	20	0.99	865	5	2.10	26	930	16	0.10	33	15	414	<20	0.43
1050B		1.23	20	1.03	1025	5	2.02	30	970	18	0.09	42	16	385	<20	0.47
1051		1.13	20	0.80	546	10	1.07	23	960	10	0.21	28	23	164	<20	0.44



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Page: 3 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
946		<10	<10	150	<10	118
947		<10	<10	123	<10	99
948		<10	<10	119	<10	85
949		<10	<10	66	<10	52
950		<10	<10	112	<10	84
950B		<10	<10	148	<10	98
951		<10	<10	127	<10	87
952		<10	<10	103	<10	73
953						
954		<10	<10	162	<10	200
955		<10	<10	139	<10	143
956		<10	<10	146	<10	269
993		<10	40	64	<10	42
994		<10	10	104	<10	92
995		<10	<10	90	<10	75
996		<10	<10	144	<10	111
997		<10	<10	131	<10	87
998		<10	<10	126	<10	71
999		<10	<10	107	<10	97
1000		<10	<10	92	<10	77
1000B		<10	<10	108	<10	75
1001		<10	<10	134	<10	121
1002		<10	<10	134	<10	155
1003		<10	<10	176	<10	174
1004		<10	<10	172	<10	276
1005		<10	<10	163	<10	179
1006		<10	<10	155	<10	172
1040		<10	<10	151	<10	147
1041		<10	<10	135	<10	85
1042		<10	<10	137	<10	107
1043		<10	<10	145	<10	120
1044		<10	<10	133	<10	104
1045		<10	<10	107	<10	89
1046		<10	<10	151	<10	110
1047		<10	<10	94	<10	92
1048		<10	<10	135	<10	137
1049		<10	<10	132	<10	161
1050		<10	<10	135	<10	148
1050B		<10	<10	153	<10	164
1051		<10	<10	186	<10	146



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Page: 4 - A  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
1096		0.76	0.010	<0.5	8.94	154	890	1.0	<2	1.31	0.6	13	44	58	5.51	20
1097		0.72	0.007	<0.5	8.32	172	660	1.1	<2	1.95	0.8	14	45	40	4.87	20
1144		0.72	0.024	<0.5	8.41	297	530	1.0	<2	2.18	0.5	14	66	51	4.58	20
1145		0.86	0.008	<0.5	8.29	148	570	1.2	<2	2.35	<0.5	14	39	30	4.11	20
1146		0.90	0.030	<0.5	8.02	173	530	1.0	<2	2.24	0.6	14	55	40	4.24	20
1147		1.00	0.005	<0.5	8.01	102	580	1.0	4	1.78	0.5	13	54	80	5.95	20
1193		0.80	0.024	<0.5	7.97	235	670	1.0	<2	1.61	<0.5	10	59	43	3.60	20
1194		0.56	0.024	<0.5	8.46	242	560	1.0	<2	1.80	<0.5	14	76	44	4.17	20
1241		0.80	0.025	<0.5	8.16	263	510	1.0	3	2.42	<0.5	15	55	48	4.07	20



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Page: 4 - B  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	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	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
1096		1.11	20	0.83	563	5	1.35	27	660	14	0.13	25	22	212	<20	0.47
1097		1.21	20	0.95	660	5	1.99	26	770	14	0.08	25	15	384	<20	0.43
1144		1.16	20	1.02	559	4	2.28	32	800	19	0.07	27	13	400	<20	0.44
1145		1.35	20	1.07	620	3	2.69	24	670	24	0.02	11	10	496	<20	0.42
1146		1.23	20	1.09	606	4	2.42	27	880	26	0.04	13	11	474	<20	0.45
1147		0.98	20	0.87	370	19	1.77	31	1040	10	0.39	22	24	244	<20	0.46
1193		1.59	20	0.62	354	5	2.46	25	620	19	0.01	17	7	420	<20	0.38
1194		1.31	20	0.87	476	6	2.43	30	800	23	0.02	17	9	415	<20	0.44
1241		1.17	20	1.07	962	3	2.62	25	930	41	0.02	29	10	543	<20	0.45



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Page: 4 - C  
 Total # Pages: 4 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138816**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Tl	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
1096		<10	<10	178	<10	144
1097		<10	<10	134	<10	107
1144		<10	<10	135	<10	132
1145		<10	<10	110	<10	108
1146		<10	<10	120	<10	110
1147		<10	<10	227	<10	79
1193		<10	<10	103	<10	88
1194		<10	<10	120	<10	110
1241		<10	<10	121	<10	112



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Page: 1  
Finalized Date: 18- AUG- 2011  
Account: ELGFEC

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P.O. No.: ELD- 2011- 003r  
This report is for 132 Rock samples submitted to our lab in Vancouver, BC, Canada on 21-JUL- 2011.

The following have access to data associated with this certificate:

ELEANOR BLACK  
TWILA SKINNER

MATT ECKFELDT  
ARNAND VAN HEERDEN

ROSS SHERLOCK

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP61	33 element four acid ICP- AES	ICP- AES

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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:

Colin Ramshaw, Vancouver Laboratory Manager









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Page: 2 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Tl	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
4172		10	<10	169	<10	119
4173		<10	<10	148	<10	113
4174		<10	<10	191	40	153
4175		<10	<10	150	<10	104
4175B		<10	<10	144	<10	134
4176		<10	<10	107	30	96
4177		<10	<10	135	10	92
4178		<10	<10	106	10	82
4179		<10	<10	178	<10	118
4180		<10	<10	139	20	104
4181		10	<10	117	10	79
4182		<10	<10	171	<10	239
4183		<10	<10	103	<10	116
4184		<10	<10	45	<10	20
4185		<10	<10	121	50	114
4185A		<10	<10	108	10	71
4186		<10	<10	93	<10	74
4187		<10	<10	137	<10	163
4188		<10	<10	152	<10	152
4189		<10	<10	147	<10	155
4190		<10	<10	61	<10	88
4191		<10	<10	113	<10	84
4192		<10	<10	155	<10	108
4193		<10	<10	119	<10	70
4194		10	<10	100	<10	105
4195		<10	<10	138	<10	124
4196		<10	<10	138	<10	455
4197		<10	<10	137	<10	110
4198		<10	<10	132	<10	118
4199		<10	<10	144	<10	113
4200		<10	<10	72	<10	56
4200B		<10	<10	126	<10	71
4201		<10	<10	108	<10	97
4202		<10	<10	82	<10	65
4203		<10	<10	104	<10	89
4204		<10	<10	121	<10	84
4205						
4206		<10	<10	144	<10	96
4207		<10	<10	152	<10	109
4208						



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Page: 3 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	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
		Recvd Wt. kg .02	Au ppm 0.001	Ag ppm 0.5	Al % 0.01	As ppm 5	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01	Ga ppm 10
4209		0.90	0.006	0.6	8.46	74	590	1.0	<2	1.56	1.1	14	38	33	4.20	20
4210		0.66	0.003	<0.5	7.04	102	480	1.1	<2	2.67	0.5	10	21	23	3.92	20
4210A		0.12	0.230	2.3	7.17	27	1490	1.1	<2	1.97	1.2	17	97	1855	4.28	20
4211		0.62	<0.001	<0.5	8.10	22	580	1.2	<2	2.19	0.6	11	19	14	3.16	20
4212		0.82	0.003	<0.5	8.48	126	560	0.9	<2	0.88	0.7	16	42	42	5.15	20
4213		0.92	0.004	<0.5	8.30	44	860	0.9	<2	1.13	0.6	8	39	37	4.70	20
4214		0.84	0.002	<0.5	7.75	41	540	1.2	<2	2.58	<0.5	7	21	14	1.82	20
4215		0.94	0.010	<0.5	8.52	79	600	1.0	<2	1.50	0.5	14	60	33	4.24	20
4216		0.72	0.016	<0.5	7.58	35	550	1.0	<2	1.60	<0.5	12	158	17	3.21	20
4217		0.78	0.004	<0.5	8.19	66	570	1.0	<2	1.60	<0.5	12	118	26	4.33	20
4218		0.96	0.005	<0.5	6.52	18	380	0.8	<2	0.76	<0.5	12	81	27	3.65	10
4219		1.54	0.001	0.5	8.43	8	870	1.0	<2	0.70	<0.5	24	157	54	5.55	20
4220		0.90	<0.001	<0.5	5.79	11	340	0.8	<2	0.49	<0.5	15	100	34	3.98	10
4221		1.54	<0.001	<0.5	6.04	12	390	0.7	<2	0.48	<0.5	14	121	35	3.89	10
4222		0.92	<0.001	<0.5	7.54	15	760	0.9	<2	0.44	0.5	20	174	46	5.05	20
4223		0.92	<0.001	<0.5	7.15	9	460	0.9	<2	0.80	<0.5	18	137	33	4.33	20
4224		0.90	0.001	<0.5	6.11	9	450	0.8	<2	0.44	<0.5	20	197	41	4.19	10
4225		0.62	<0.001	<0.5	7.11	7	410	0.9	<2	0.81	<0.5	21	190	36	4.68	20
4225B		0.76	0.003	<0.5	7.22	7	400	0.9	<2	0.73	<0.5	20	198	48	4.78	20
4226		0.54	0.001	0.6	7.32	28	530	1.1	<2	2.88	0.7	9	21	25	2.72	20
4227		0.62	0.002	<0.5	8.39	46	590	1.1	<2	1.98	0.9	9	29	24	3.84	20
4228		0.70	0.001	0.5	8.16	73	620	0.8	<2	1.35	1.0	11	34	28	4.25	20
4229		0.76	0.002	0.5	8.23	51	670	0.9	<2	1.02	0.9	9	40	29	4.59	20
4230		1.02	0.002	0.6	8.79	24	920	0.9	<2	0.56	0.7	12	41	49	5.54	20
4231		1.46	0.003	0.7	8.39	25	650	0.9	<2	1.63	1.0	10	43	40	4.50	20
4232		0.50	0.001	0.5	7.85	25	590	1.2	<2	1.95	<0.5	9	28	13	3.02	20
4233		0.98	0.004	<0.5	8.38	66	760	0.9	<2	0.73	0.5	13	51	47	5.16	20
4234		0.72	0.007	<0.5	7.76	214	540	1.0	<2	2.14	0.5	12	60	18	3.49	20
4235		0.76	0.008	<0.5	7.57	53	550	1.0	<2	1.56	<0.5	12	76	22	3.46	20
4235A		Not Recvd														
4236		0.88	<0.001	<0.5	5.07	45	330	0.7	<2	0.50	0.5	11	101	25	3.38	10
4237		0.96	0.001	<0.5	9.23	18	530	1.1	<2	0.51	<0.5	19	67	50	4.76	20
4238		0.96	<0.001	<0.5	6.49	16	390	0.7	<2	0.66	<0.5	10	91	25	3.79	20
4239		1.04	<0.001	<0.5	6.18	10	340	0.8	<2	0.77	<0.5	13	86	24	3.86	20
4240		0.84	<0.001	<0.5	5.82	30	320	0.8	<2	0.26	<0.5	18	109	34	4.47	10
4241		0.70	<0.001	<0.5	7.19	7	490	1.0	<2	1.79	<0.5	10	59	15	3.21	20
4242		1.24	0.001	<0.5	7.30	26	400	0.9	<2	0.41	<0.5	19	128	44	5.37	20
4243		0.72	<0.001	<0.5	6.83	12	410	0.8	<2	0.66	<0.5	17	133	33	4.53	20
4244		0.74	<0.001	<0.5	6.22	25	460	0.8	<2	0.41	<0.5	20	177	41	4.76	10
4245		0.66	<0.001	<0.5	7.66	9	510	1.2	<2	2.19	<0.5	8	34	9	2.85	20



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Page: 3 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	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	
		K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sc ppm 1	Sr ppm 1	Th ppm 20	Ti % 0.01
4209		1.01	10	0.75	1205	2	2.02	29	580	14	0.02	10	13	368	<20	0.40
4210		1.15	20	0.88	693	2	2.09	19	1280	9	0.17	<5	9	418	<20	0.30
4210A		3.49	20	0.95	378	171	0.95	18	770	26	1.94	14	11	223	<20	0.24
4211		1.43	10	0.86	689	2	2.64	14	510	6	0.02	<5	10	492	<20	0.34
4212		0.94	10	0.93	492	3	1.44	27	550	6	0.03	13	17	212	<20	0.48
4213		1.15	10	0.85	584	4	1.58	21	600	15	0.09	7	19	240	<20	0.45
4214		1.43	10	0.90	525	7	2.79	12	910	12	0.16	20	7	546	<20	0.28
4215		1.26	10	1.02	482	2	2.12	41	730	12	0.07	12	12	346	<20	0.43
4216		1.31	10	1.51	598	2	2.42	90	590	10	0.01	<5	9	408	<20	0.40
4217		1.20	20	1.31	507	2	1.97	62	980	7	0.02	9	13	344	<20	0.48
4218		0.88	10	0.88	549	1	1.36	46	570	5	0.01	<5	12	215	<20	0.38
4219		1.65	10	1.10	615	<1	1.08	90	440	7	0.01	<5	20	133	<20	0.55
4220		0.63	10	0.59	647	<1	1.59	50	960	3	0.01	<5	11	218	<20	0.44
4221		0.75	10	1.17	611	<1	1.20	65	770	<2	0.01	<5	14	95	<20	0.45
4222		0.92	20	0.37	1035	<1	0.76	83	1010	2	0.01	6	21	425	<20	0.66
4223		0.89	10	1.03	923	1	1.56	71	880	3	0.01	<5	13	254	<20	0.50
4224		0.85	10	1.44	687	<1	1.33	126	620	5	0.01	<5	16	149	<20	0.48
4225		0.86	10	1.40	1080	1	1.42	102	1030	6	0.03	<5	13	220	<20	0.51
4225B		0.87	10	1.46	1000	1	1.36	125	1060	7	0.03	6	14	202	<20	0.54
4226		1.30	20	0.80	779	2	2.46	16	910	13	0.07	<5	8	495	<20	0.28
4227		1.23	10	0.83	595	2	2.24	16	590	8	0.04	9	12	430	<20	0.39
4228		1.02	10	0.81	528	2	1.69	19	640	7	0.03	10	15	291	<20	0.43
4229		1.05	10	0.80	488	4	1.67	20	490	11	0.03	8	17	247	<20	0.47
4230		1.24	10	0.68	518	4	1.69	19	1000	6	0.01	<5	21	201	<20	0.52
4231		1.07	10	0.82	583	5	2.03	25	740	9	0.08	8	16	315	<20	0.43
4232		1.42	20	0.84	585	3	2.67	15	610	10	0.01	<5	9	473	<20	0.36
4233		1.08	10	0.91	502	5	1.46	38	920	11	0.03	10	18	207	<20	0.44
4234		1.20	10	1.09	588	2	2.56	32	570	11	0.01	16	9	479	<20	0.39
4235		1.17	10	1.07	633	2	2.10	38	750	10	0.02	7	10	374	<20	0.42
4235A																
4236		0.61	10	0.46	311	1	0.94	54	720	3	0.01	<5	9	227	<20	0.42
4237		1.28	20	1.23	706	1	1.55	42	710	4	0.01	8	16	240	<20	0.45
4238		0.83	10	0.85	416	1	1.38	46	590	2	0.01	<5	12	213	<20	0.41
4239		0.67	10	0.85	541	2	1.58	45	890	7	0.01	<5	10	206	<20	0.43
4240		0.57	10	0.29	882	1	0.90	56	850	5	0.01	13	15	280	<20	0.49
4241		1.18	10	0.98	858	1	2.43	32	600	6	0.01	<5	9	421	<20	0.33
4242		0.82	10	0.52	978	1	1.37	69	940	5	0.01	12	21	183	<20	0.59
4243		0.79	10	0.86	1170	1	1.48	63	800	9	0.01	<5	14	199	<20	0.51
4244		0.81	10	0.66	788	1	0.96	102	730	5	0.02	7	17	192	<20	0.44
4245		1.27	10	0.75	608	2	2.76	17	450	7	0.01	<5	7	553	<20	0.31



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Page: 3 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
4209		<10	<10	123	<10	179
4210		<10	<10	86	<10	52
4210A		<10	<10	108	20	71
4211		<10	<10	87	<10	83
4212		<10	<10	162	<10	141
4213		<10	<10	153	<10	103
4214		<10	<10	41	<10	54
4215		<10	<10	126	<10	131
4216		<10	<10	99	<10	69
4217		<10	<10	129	<10	113
4218		<10	<10	117	<10	76
4219		<10	<10	180	<10	117
4220		<10	<10	112	<10	72
4221		<10	<10	122	<10	77
4222		<10	<10	169	<10	95
4223		<10	<10	129	<10	94
4224		<10	<10	126	<10	82
4225		<10	<10	137	<10	107
4225B		<10	<10	138	<10	119
4226		<10	<10	63	<10	64
4227		<10	<10	108	<10	115
4228		<10	<10	130	<10	117
4229		<10	<10	160	<10	117
4230		<10	<10	172	<10	179
4231		<10	<10	136	<10	173
4232		<10	<10	84	<10	71
4233		<10	<10	159	<10	162
4234		<10	<10	102	<10	71
4235		<10	<10	107	<10	84
4235A						
4236		<10	<10	100	<10	64
4237		<10	<10	162	<10	105
4238		<10	<10	123	<10	76
4239		<10	<10	108	<10	95
4240		<10	<10	120	10	83
4241		<10	<10	81	<10	66
4242		<10	<10	155	<10	99
4243		<10	<10	127	<10	97
4244		<10	<10	123	<10	90
4245		<10	<10	72	<10	55



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Page: 4 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	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
		Recvd Wt. kg .02	Au ppm 0.001	Ag ppm 0.5	Al % 0.01	As ppm 5	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01	Ga ppm 10
4246		1.00	0.005	<0.5	7.71	92	510	0.8	<2	1.69	<0.5	10	38	31	4.11	20
4247		0.80	0.011	<0.5	8.55	244	680	0.8	<2	1.28	1.9	12	36	48	5.26	20
4248		0.64	<0.001	<0.5	7.71	34	590	1.1	<2	1.99	<0.5	9	23	16	3.22	20
4249		0.72	<0.001	<0.5	8.17	41	640	0.9	<2	0.88	0.6	10	47	29	4.80	20
4250		1.08	0.001	<0.5	8.88	44	760	0.9	<2	0.58	<0.5	13	62	45	5.16	20
4250B		1.12	0.002	<0.5	8.07	36	680	0.9	<2	0.84	<0.5	11	41	38	4.66	20
4251		1.04	0.018	<0.5	8.55	26	810	0.9	<2	0.47	<0.5	12	46	52	5.06	20
4252		0.76	0.006	<0.5	8.12	56	760	0.9	<2	1.01	<0.5	10	47	38	4.55	20
4253		0.92	0.162	<0.5	7.97	82	570	0.9	<2	1.49	<0.5	10	49	28	4.07	20
4254		0.70	0.007	<0.5	7.61	69	520	0.9	<2	1.46	<0.5	7	63	19	3.74	20
4255		0.82	0.007	<0.5	8.32	134	600	0.9	<2	1.38	<0.5	17	93	21	4.65	20
4256		1.04	0.001	<0.5	6.31	34	350	0.8	<2	0.41	<0.5	20	117	40	4.70	10
4257		0.66	<0.001	<0.5	8.25	19	480	1.0	<2	1.02	<0.5	13	60	30	4.24	20
4258		0.78	<0.001	<0.5	6.31	25	350	0.7	<2	0.57	<0.5	12	115	23	4.45	20
4259		1.08	<0.001	<0.5	6.16	17	400	0.8	<2	0.69	<0.5	14	94	30	4.04	10
4260		1.04	<0.001	<0.5	6.47	16	330	0.8	<2	0.35	<0.5	17	135	37	4.84	20
4260A		0.12	0.242	1.8	6.88	28	1420	1.1	<2	1.97	0.7	16	99	1690	4.28	20
4261		0.66	<0.001	<0.5	7.69	<5	470	1.1	<2	1.86	<0.5	12	54	19	3.40	20
4262		1.42	<0.001	<0.5	6.43	20	370	0.8	<2	0.35	<0.5	18	149	36	4.65	20
4263		0.74	<0.001	<0.5	6.75	18	400	0.9	<2	0.85	<0.5	17	119	31	4.40	20
4264		0.70	<0.001	<0.5	6.91	13	480	0.9	<2	1.24	<0.5	14	107	26	3.96	20
4265		0.90	<0.001	<0.5	7.93	<5	520	1.2	<2	2.25	<0.5	9	34	10	2.88	20
4266		0.86	0.004	<0.5	8.03	103	550	0.8	<2	1.47	<0.5	10	40	28	4.13	20
4267		1.22	0.007	<0.5	7.29	112	670	0.8	<2	1.43	0.5	10	33	49	4.90	20
4268		0.76	0.003	<0.5	8.16	86	720	0.8	<2	0.90	<0.5	11	41	41	5.10	20
4269		0.92	<0.001	<0.5	8.31	26	510	0.9	<2	1.11	<0.5	11	29	30	4.81	20
4270		1.02	0.001	<0.5	7.98	28	570	0.8	<2	0.83	<0.5	15	40	36	4.94	20
4271		1.04	0.014	<0.5	8.35	45	680	0.9	<2	1.40	<0.5	11	54	40	4.65	20
4272		0.76	0.002	<0.5	8.50	80	550	0.9	<2	0.76	<0.5	16	52	41	5.48	20
4273		1.10	0.006	<0.5	8.41	39	880	0.9	<2	0.86	<0.5	10	47	44	4.55	20
4274		0.84	0.036	<0.5	7.89	93	580	0.9	<2	1.57	<0.5	11	55	24	3.72	20
4275		0.90	0.037	<0.5	7.94	223	560	1.0	<2	1.48	<0.5	11	83	32	3.79	20
4275B		0.74	0.006	<0.5	7.73	115	620	1.0	<2	1.71	<0.5	10	91	30	3.80	20
4276		0.90	0.001	<0.5	5.21	22	330	0.7	<2	0.63	<0.5	11	111	24	3.63	10
4277		0.66	0.001	<0.5	8.59	12	480	1.0	<2	1.39	<0.5	11	56	27	4.45	20
4278		0.92	0.001	<0.5	6.15	23	380	0.8	<2	0.69	<0.5	13	107	31	4.00	10
4279		0.94	<0.001	<0.5	6.18	5	390	0.8	<2	0.86	<0.5	15	110	36	4.04	10
4280		0.62	0.001	<0.5	7.97	9	490	1.1	<2	2.02	<0.5	10	51	16	3.59	20
4281		0.76	<0.001	<0.5	7.44	8	480	1.0	<2	1.15	<0.5	12	89	24	3.90	20
4282		0.86	<0.001	<0.5	5.72	<5	350	0.7	<2	0.28	<0.5	15	109	35	4.04	10



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Page: 4 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 18- AUG- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	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	
		K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sc ppm 1	Sr ppm 1	Th ppm 20	Ti % 0.01
4246		0.80	10	0.78	621	2	1.67	23	530	8	0.03	5	17	339	<20	0.39
4247		0.95	10	0.60	818	3	0.96	21	840	12	0.11	29	23	180	<20	0.43
4248		1.35	10	0.76	777	2	2.44	15	930	11	0.03	<5	10	443	<20	0.34
4249		1.05	10	0.79	411	4	1.69	22	790	9	0.02	<5	17	260	<20	0.45
4250		1.12	10	0.71	394	5	1.56	27	590	8	0.03	6	21	207	<20	0.51
4250B		1.05	10	0.70	617	4	1.68	21	750	9	0.04	5	17	245	<20	0.40
4251		1.05	10	0.82	434	6	1.63	24	680	7	0.06	<5	23	185	<20	0.46
4252		1.13	10	0.81	579	4	1.82	26	1000	12	0.03	5	18	263	<20	0.44
4253		1.20	10	0.89	439	3	2.13	28	840	11	0.03	6	12	364	<20	0.38
4254		1.13	10	0.81	400	3	2.02	21	760	14	0.01	5	10	353	<20	0.42
4255		1.33	10	1.11	800	4	1.93	39	660	16	0.02	11	13	353	<20	0.48
4256		0.80	10	0.55	760	2	0.88	65	730	6	0.01	<5	14	192	<20	0.44
4257		1.16	10	1.00	604	2	1.79	37	540	8	0.01	<5	13	302	<20	0.40
4258		0.77	10	0.86	438	2	1.15	48	970	6	0.01	<5	13	179	<20	0.42
4259		0.73	10	0.99	571	1	1.42	53	770	6	0.01	<5	13	163	<20	0.43
4260		0.67	10	0.71	636	1	1.44	58	750	6	0.01	5	16	209	<20	0.52
4260A		3.37	20	0.91	363	157	0.91	16	730	25	1.80	8	11	220	<20	0.23
4261		1.14	10	0.90	1125	2	2.46	29	900	9	0.01	<5	9	442	<20	0.34
4262		0.79	10	0.75	863	1	1.39	63	810	5	0.01	5	17	152	<20	0.50
4263		0.84	10	0.95	894	2	1.53	59	760	7	0.01	<5	13	269	<20	0.45
4264		0.93	10	0.60	649	1	1.80	51	560	7	0.01	<5	11	393	<20	0.39
4265		1.32	10	0.81	595	2	2.83	18	600	7	0.01	<5	7	561	<20	0.31
4266		0.88	10	0.76	731	2	1.92	20	530	9	0.02	6	16	326	<20	0.39
4267		0.93	10	0.60	675	2	1.24	16	700	10	0.12	18	18	193	<20	0.43
4268		0.93	10	0.77	566	3	1.34	25	1020	8	0.07	10	20	193	<20	0.46
4269		0.99	10	0.70	493	2	1.81	15	580	9	0.01	<5	15	320	<20	0.41
4270		0.79	10	0.60	643	3	1.51	19	470	7	0.02	<5	18	227	<20	0.45
4271		0.98	10	0.91	532	6	1.88	24	740	9	0.04	6	19	291	<20	0.44
4272		1.01	10	0.82	451	3	1.56	41	1230	8	0.02	5	16	244	<20	0.43
4273		1.17	20	0.91	513	5	1.70	27	620	8	0.05	8	21	199	<20	0.44
4274		1.18	20	0.90	605	3	2.21	33	710	12	0.02	7	10	369	<20	0.40
4275		1.28	20	1.02	444	2	1.97	48	800	12	0.01	8	10	344	<20	0.39
4275B		1.32	20	1.20	446	3	2.05	51	920	13	0.05	9	12	342	<20	0.41
4276		0.72	20	0.57	454	1	1.17	52	980	8	0.01	<5	10	193	<20	0.43
4277		1.22	20	1.00	395	1	1.89	33	760	11	0.01	<5	13	321	<20	0.43
4278		0.87	20	1.04	609	1	1.25	58	740	7	0.03	<5	13	181	<20	0.39
4279		0.80	20	1.20	574	1	1.65	57	650	6	0.01	<5	13	181	<20	0.45
4280		1.22	30	1.07	602	1	2.79	27	450	8	0.01	<5	10	467	<20	0.39
4281		1.04	20	1.01	723	1	1.99	47	540	7	0.01	<5	11	298	<20	0.43
4282		0.71	20	1.09	621	1	1.23	69	590	7	0.01	<5	13	103	<20	0.45





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Page: 4 - C  
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**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
4246		<10	<10	126	<10	101
4247		<10	<10	147	<10	181
4248		<10	<10	83	<10	85
4249		<10	<10	160	<10	132
4250		<10	<10	175	<10	137
4250B		<10	<10	142	<10	123
4251		<10	<10	166	<10	158
4252		<10	<10	150	<10	131
4253		<10	<10	115	<10	109
4254		<10	<10	111	<10	76
4255		<10	<10	139	<10	104
4256		<10	<10	134	<10	94
4257		<10	<10	130	<10	90
4258		<10	<10	129	<10	132
4259		<10	<10	116	<10	88
4260		<10	<10	132	<10	84
4260A		<10	<10	103	20	69
4261		<10	<10	88	<10	71
4262		<10	<10	131	<10	88
4263		<10	<10	125	<10	78
4264		<10	<10	100	<10	76
4265		<10	<10	70	<10	56
4266		<10	<10	122	<10	92
4267		<10	<10	149	<10	158
4268		<10	<10	162	<10	147
4269		<10	<10	116	<10	106
4270		<10	<10	134	<10	124
4271		<10	<10	144	<10	142
4272		<10	<10	155	<10	192
4273		<10	<10	165	<10	120
4274		<10	<10	111	<10	124
4275		<10	<10	109	<10	88
4275B		<10	<10	121	<10	87
4276		<10	<10	104	<10	77
4277		<10	<10	143	<10	110
4278		<10	<10	124	<10	77
4279		<10	<10	124	<10	77
4280		<10	<10	93	<10	68
4281		<10	<10	110	<10	80
4282		<10	<10	118	<10	81



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Page: 5 - A  
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Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	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
		Recvd Wt. kg .02	Au ppm 0.001	Ag ppm 0.5	Al % 0.01	As ppm 5	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01	Ga ppm 10
4283		0.82	<0.001	<0.5	6.40	6	310	0.7	<2	0.36	<0.5	14	123	31	4.48	20
4284		0.68	<0.001	<0.5	7.85	<5	550	1.2	<2	2.17	<0.5	8	46	12	2.97	20
4285		0.62	<0.001	<0.5	7.28	5	490	1.1	<2	1.93	<0.5	7	44	12	2.83	20
4285A		0.12	0.213	2.0	7.71	27	1580	1.2	<2	2.16	0.9	16	106	1815	4.56	20
4286		1.02	0.003	<0.5	8.00	60	630	0.8	<2	1.26	0.9	10	39	32	4.07	20
4287		0.74	0.001	<0.5	8.02	41	660	1.0	<2	1.91	0.9	8	28	25	3.72	20
4288		0.68	0.001	<0.5	7.80	70	620	0.7	<2	1.17	0.5	11	36	29	4.28	20
4289		0.66	0.005	<0.5	7.53	34	540	0.9	<2	1.45	1.4	8	30	18	3.68	20
4290		1.28	0.001	<0.5	8.40	29	640	0.8	<2	0.89	0.6	11	39	31	5.10	20
4291		0.94	0.003	<0.5	8.16	27	740	0.9	<2	0.89	0.5	12	46	43	4.84	20
4292		0.90	0.012	<0.5	8.35	60	810	0.9	<2	1.09	<0.5	7	52	38	4.83	20
4293		1.20	0.010	<0.5	8.08	101	660	1.0	<2	1.85	<0.5	10	54	30	3.66	20



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Page: 5 - B  
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**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	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	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
4283		0.68	20	1.15	1185	<1	1.42	56	670	7	0.01	<5	13	147	<20	0.46
4284		1.34	30	0.80	585	3	2.86	23	710	12	0.01	<5	8	522	<20	0.36
4285		1.19	20	0.72	459	2	2.57	19	560	6	0.01	<5	8	468	<20	0.37
4285A		3.54	40	1.04	400	163	1.01	19	770	28	1.96	12	12	236	<20	0.25
4286		0.91	20	0.60	638	2	1.58	21	630	7	0.04	12	18	226	<20	0.44
4287		1.24	20	0.78	909	2	2.15	18	790	11	0.03	7	14	361	<20	0.40
4288		0.85	20	0.76	802	2	1.67	17	550	7	0.04	7	18	275	<20	0.45
4289		1.03	20	0.71	507	2	2.06	17	520	7	0.02	<5	11	343	<20	0.38
4290		0.78	20	0.53	537	2	1.49	19	440	7	0.02	<5	19	219	<20	0.48
4291		0.94	20	0.89	517	4	1.90	26	640	7	0.07	6	19	237	<20	0.46
4292		1.14	20	0.90	487	4	1.91	23	850	9	0.05	11	20	241	<20	0.48
4293		1.26	20	1.00	453	2	2.40	32	710	11	0.07	14	12	394	<20	0.39



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Page: 5 - C  
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**CERTIFICATE OF ANALYSIS VA11138817**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
		Tl	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		10	10	1	10	2
4283		<10	<10	129	<10	94
4284		<10	<10	82	<10	60
4285		<10	<10	78	<10	49
4285A		<10	<10	111	20	74
4286		<10	<10	146	10	125
4287		<10	<10	120	<10	124
4288		<10	<10	146	<10	116
4289		<10	<10	102	<10	102
4290		<10	<10	144	<10	156
4291		<10	<10	158	<10	135
4292		<10	<10	170	<10	143
4293		<10	<10	123	<10	89

**Appendix 4:  
Stream Sediment Assay Results (pdf)**

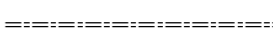


**GOLD FIELDS**


## Appendix 4: Stream Sediment Sample Results

### Legend

 Robson Occurrence Tenure

 Access\_Roads

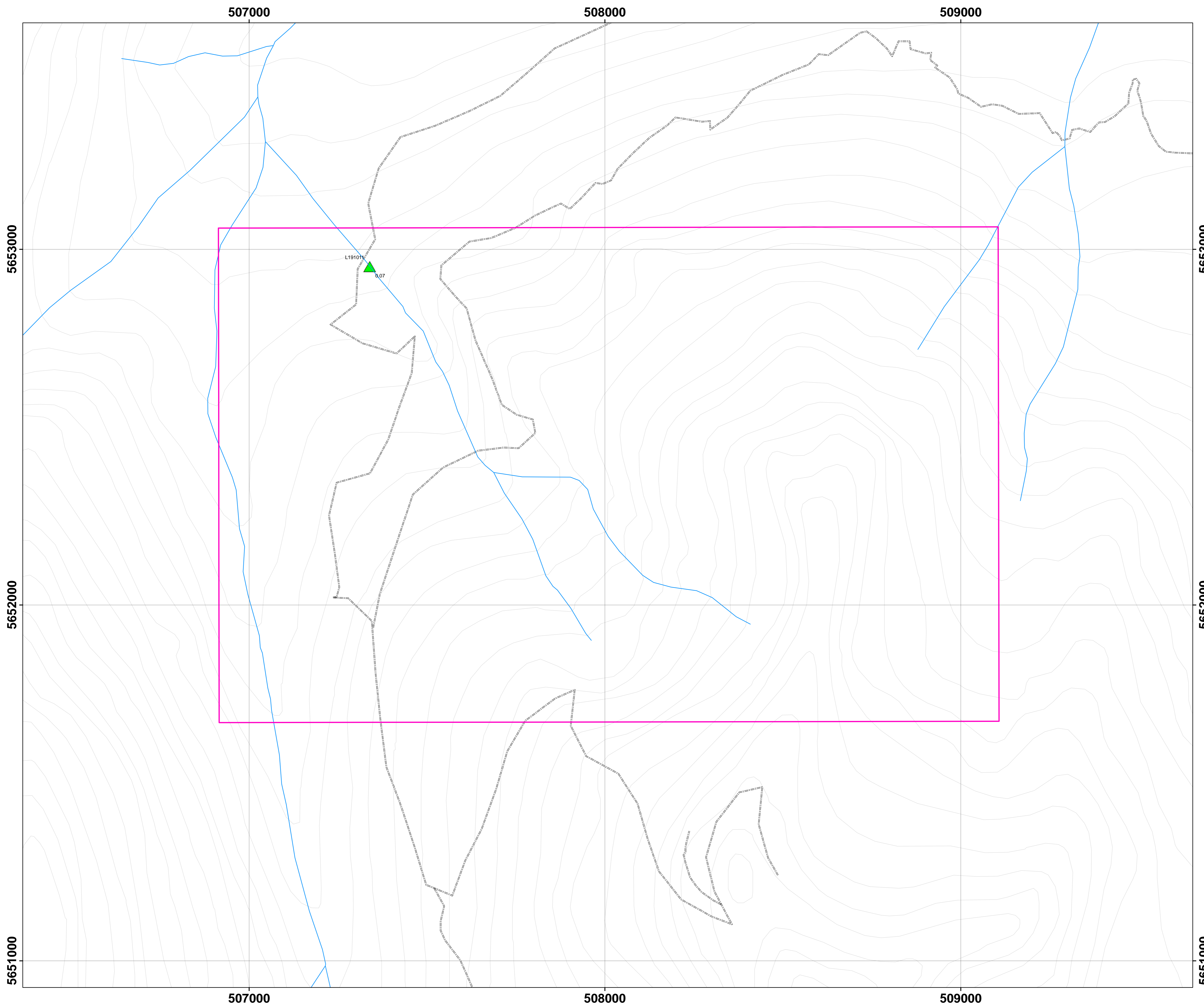
 Stream Sed Sample

Sample ID  
 Au\_ppm



1:5,000

0 125 250 500  
Meters





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Page: 1  
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**CERTIFICATE VA11163895**

Project: Eldorado  
 P.O. No.: ELD- 2011- 008ss  
 This report is for 25 Sediment samples submitted to our lab in Vancouver, BC,  
 Canada on 8- AUG- 2011.

The following have access to data associated with this certificate:

ELEANOR BLACK  
 TWILA SKINNER

MATT ECKFELDT  
 ARNAND VAN HEERDEN

ROSS SHERLOCK

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- OG43	Ore Grade Au - 25g AR	ICP- MS
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	51 anal. aqua regia ICPMS	

To: GFE EXPLORATION CORPORATION  
 ATTN: ELEANOR BLACK  
 400- 1155 ROBSON ST.  
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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:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
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**CERTIFICATE OF ANALYSIS VA11163895**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ST43 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
191011		1.42	0.0715	0.31	0.72	603	<0.2	<10	130	0.33	0.26	1.14	0.87	31.1	24.7	31

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*





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 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
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 Account: ELGFEC

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**CERTIFICATE OF ANALYSIS VA11163895**

Sample Description	Method	Analyte	Units	LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
					Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li
					ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
					0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1
191011					5.78	106.5	5.25	3.52	0.09	0.04	0.38	0.072	0.21	11.5	8.8

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Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 26- SEP- 2011  
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**CERTIFICATE OF ANALYSIS VA11163895**

Sample Description	Method	Analyte	Units	LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41			
					Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
					ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
191011					0.29	28.0	2000	42.6	12.9	<0.001	0.08	28.0	12.8	0.5	0.4	51.4	<0.01	0.02	3.8

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 Plus Appendix Pages  
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**CERTIFICATE OF ANALYSIS VA11163895**

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 TI ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm	Au- OG43 Au ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
191011		0.099	0.22	1.63	124	0.14	16.15	150	1.6	



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Total # Appendix Pages: 1  
Finalized Date: 26- SEP- 2011  
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**CERTIFICATE OF ANALYSIS VA11163895**

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).

**Appendix 5:  
Water Sample Assay Results**

**August 19, 2011**  
**Sample Information**

Station	Sample #	Date	Time	UTM Zone	UTM Easting	UTM Northing	Elevation (m)	Ph	Temp (C°)	Width (m)	Depth (cm)	Comments
WS1	ELD11-01	August 19, 2011	1:13pm	10	507656	5650469	1964	8.08	8.3	1-1.5	10-30	some rusty coloured oxidized rocks near quad trail
WS2	ELD11-02	August 19, 2011	1:28pm	10	507550	5651126	1953	8.34	12.8	0.5-1	5-25	up stream of quad trail some oxidized rock around
WS3	ELD11-03	August 19, 2011	2:02pm	10	507719	5652470	1764	8.4	11.4	1-2	10-30	~5m downstream of the confluence of 2 creeks; quad trail ~50m up stream some orange oxidized rocks in stream
WS4	ELD11-04	August 19, 2011	2:56pm	10	509348	5653308	1651	7.7	10.4	1	10-50	upstream of quad trail; some rusty orange coloured rocks

**September 13, 2011**

**Sample Information**

<b>Station</b>	<b>Sample #</b>	<b>Date</b>	<b>Time</b>	<b>UTM Zone</b>	<b>UTM Easting</b>	<b>UTM Northing</b>	<b>Elevation (m)</b>	<b>Ph</b>	<b>Temp (C°)</b>	<b>Width (m)</b>	<b>Depth (cm)</b>	<b>Comments</b>
WS1	ELD11-05	September 13, 2011	1:13pm	10	507656	5650469	1964	8	8.3	1.5-2	10-50	same as WS1; same as before
WS2	ELD11-06	September 13, 2011	4:21pm	10	507550	5651126	1953	8.41	12.9	0.5-1	5-25	same as WS2; same as before
WS3	ELD11-07	September 13, 2011	3:50pm	10	507719	5652470	1764	8:46	12.4	1.5-2	10-30	same as WS3; same as before
WS4	ELD11-08	September 13, 2011	3:06pm	10	509348	5653308	1651	7.73	11.3	1	10-30	same as WS4; same as before



GOLD FIELDS TOODOGGONE  
EXPLORATION

ATTN: Twila Skinner  
400-1155 Robson St  
Vancouver BC V6E 1B5

Date Received: 20-AUG-11  
Report Date: 31-AUG-11 10:37 (MT)  
Version: FINAL

Client Phone: 604-605-8735

## Certificate of Analysis

**Lab Work Order #:** L1047709  
**Project P.O. #:** GOLD FIELDS ELDORADO  
**Job Reference:**  
**C of C Numbers:** 10-168574  
**Legal Site Desc:**

Dean Watt  
Account Manager

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# ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1047709-1 WATER 18-AUG-11 13:08 ELD11-01	L1047709-2 WATER 18-AUG-11 13:28 ELD11-02	L1047709-3 WATER 18-AUG-11 14:02 ELD11-03	L1047709-4 WATER 18-AUG-11 14:56 ELD11-04
Grouping	Analyte				
<b>WATER</b>					
<b>Physical Tests</b>	Conductivity (uS/cm)	213	223	218	69.7
	Hardness (as CaCO3) (mg/L)	99.6	110	110	30.9
	pH (pH)	7.98	8.18	8.25	6.52
	Total Suspended Solids (mg/L)	<3.0	<3.0	8.3	<3.0
	Turbidity (NTU)	0.26	0.63	3.64	0.30
<b>Anions and Nutrients</b>	Alkalinity, Total (as CaCO3) (mg/L)	61.8	76.3	89.3	21.6
	Ammonia (as N) (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50
	Nitrate (as N) (mg/L)	0.0096	<0.0050	<0.0050	<0.0050
	Sulfate (SO4) (mg/L)	50.0	42.8	28.7	12.5
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)	<0.0050	0.0093	0.0509	0.0119
	Antimony (Sb)-Total (mg/L)	0.00142	0.00538	0.00759	0.00333
	Arsenic (As)-Total (mg/L)	0.0173	0.0317	0.0413	0.0210
	Barium (Ba)-Total (mg/L)	0.0104	0.0167	0.0165	0.00506
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	<0.000010	0.000012	0.000025	0.000016
	Calcium (Ca)-Total (mg/L)	19.4	19.4	20.1	7.93
	Chromium (Cr)-Total (mg/L)	0.00054	0.00027	0.00022	0.00019
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	0.00057	<0.00050
	Iron (Fe)-Total (mg/L)	<0.010	<0.010	0.159	0.012
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	0.000217	<0.000050
	Lithium (Li)-Total (mg/L)	<0.00050	<0.00050	0.00080	<0.00050
	Magnesium (Mg)-Total (mg/L)	13.1	14.9	15.2	2.81
	Manganese (Mn)-Total (mg/L)	0.00024	0.00043	0.00399	0.00072
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00080	0.00089	0.00097	0.00063
	Nickel (Ni)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050
	Potassium (K)-Total (mg/L)	1.69	1.51	1.17	0.81
	Selenium (Se)-Total (mg/L)	0.00045	<0.00010	0.00013	<0.00010
	Silicon (Si)-Total (mg/L)	3.26	3.04	2.97	2.84
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	1.48	0.91	1.23	0.95
Strontium (Sr)-Total (mg/L)	0.0542	0.0742	0.0939	0.0342	
Thallium (Tl)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1047709-1	L1047709-2	L1047709-3	L1047709-4	
Description	WATER	WATER	WATER	WATER	
Sampled Date	18-AUG-11	18-AUG-11	18-AUG-11	18-AUG-11	
Sampled Time	13:08	13:28	14:02	14:56	
Client ID	ELD11-01	ELD11-02	ELD11-03	ELD11-04	
Grouping	Analyte				
<b>WATER</b>					
<b>Total Metals</b>	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/L)	0.000403	0.000377	0.00106	0.000103
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050
	Antimony (Sb)-Dissolved (mg/L)	0.00140	0.00541	0.00733	0.00330
	Arsenic (As)-Dissolved (mg/L)	0.0170	0.0314	0.0371	0.0207
	Barium (Ba)-Dissolved (mg/L)	0.00982	0.0162	0.0151	0.00491
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010	<0.000010	0.000020	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	19.0	19.6	19.7	7.82
	Chromium (Cr)-Dissolved (mg/L)	0.00053	0.00024	0.00012	0.00015
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050
	Iron (Fe)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	<0.00050	<0.00050	0.00070	<0.00050
	Magnesium (Mg)-Dissolved (mg/L)	12.7	15.0	14.8	2.76
	Manganese (Mn)-Dissolved (mg/L)	<0.00020	<0.00020	0.00081	<0.00020
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00081	0.00086	0.00094	0.00064
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050
	Potassium (K)-Dissolved (mg/L)	1.65	1.43	1.12	0.81
	Selenium (Se)-Dissolved (mg/L)	0.00045	<0.00010	0.00012	<0.00010
	Silicon (Si)-Dissolved (mg/L)	3.18	3.05	2.81	2.78
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	1.44	0.84	1.17	0.93
	Strontium (Sr)-Dissolved (mg/L)	0.0532	0.0732	0.0920	0.0341
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.000403	0.000383	0.00103	0.000081
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## Reference Information

## Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLM	Detection Limit Adjusted For Sample Matrix Effects

## Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0
This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO <sub>3</sub> equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.			
HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
MET-D-CCMS-VA	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
MET-T-CCMS-VA	Water	Total Metals in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).			
NH3-F-VA	Water	Ammonia in Water by Fluorescence	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC
This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society			

## Reference Information

of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

**PH-PCT-VA**                      Water              pH by Meter (Automated)                      APHA 4500-H "pH Value"

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

**PH-PCT-VA**                      Water              pH by Meter (Automated)                      APHA 4500-H pH Value

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

**TSS-VA**                              Water              Total Suspended Solids by Gravimetric                      APHA 2540 D - GRAVIMETRIC

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.

**TURBIDITY-VA**                      Water              Turbidity by Meter                      APHA 2130 "Turbidity"

This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

**TURBIDITY-VA**                      Water              Turbidity by Meter                      APHA 2130 Turbidity

This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

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\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

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Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

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### Chain of Custody Numbers:

10-168574

### GLOSSARY OF REPORT TERMS

*Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.*

*mg/kg - milligrams per kilogram based on dry weight of sample.*

*mg/kg wwt - milligrams per kilogram based on wet weight of sample.*

*mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.*

*mg/L - milligrams per litre.*

*< - Less than.*

*D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).*

*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

**UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.**

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*



GOLD FIELDS TOODOGGONE  
EXPLORATION  
ATTN: Twila Skinner  
400-1155 Robson St  
Vancouver BC V6E 1B5

Date Received: 14-SEP-11  
Report Date: 26-SEP-11 16:24 (MT)  
Version: FINAL

Client Phone: 604-605-8735

## Certificate of Analysis

**Lab Work Order #:** L1058481  
**Project P.O. #:** GOLD FIELDS ELDORADO  
**Job Reference:**  
**C of C Numbers:** 10-168577  
**Legal Site Desc:**

Dean Watt  
Account Manager

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# ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1058481-1	L1058481-2	L1058481-3	L1058481-4
	Description	WATER	WATER	WATER	WATER
	Sampled Date	13-SEP-11	13-SEP-11	13-SEP-11	13-SEP-11
	Sampled Time	13:13	16:21	15:50	15:06
	Client ID	ELD11-05	ELD11-06	ELD11-07	ELD11-08
Grouping	Analyte				
<b>WATER</b>					
<b>Physical Tests</b>	Conductivity (uS/cm)	213	239	280	81.9
	Hardness (as CaCO3) (mg/L)	101	125	156	34.9
	pH (pH)	7.50	8.17	8.31	7.91
	Total Suspended Solids (mg/L)	<3.0	12.0	14.7	3.3
	Turbidity (NTU)	0.21	1.31	1.76	0.28
<b>Anions and Nutrients</b>	Alkalinity, Total (as CaCO3) (mg/L)	53.3	70.4	109	23.8
	Ammonia (as N) (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50
	Nitrate (as N) (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050
	Sulfate (SO4) (mg/L)	51.8	45.5	39.0	14.1
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)	<0.0050	0.0625	0.353	0.0070
	Antimony (Sb)-Total (mg/L)	0.00132	0.00541	0.00700	0.00351
	Arsenic (As)-Total (mg/L)	0.0161	0.0348	0.0359	0.0225
	Barium (Ba)-Total (mg/L)	0.0104	0.0191	0.0279	0.00553
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	<0.000010	<0.000010	0.000027	<0.000010
	Calcium (Ca)-Total (mg/L)	19.1	23.5	30.3	9.04
	Chromium (Cr)-Total (mg/L)	0.00059	0.00049	0.00222	0.00025
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	0.00097	<0.00010
	Copper (Cu)-Total (mg/L)	<0.00050	0.00068	0.00177	<0.00050
	Iron (Fe)-Total (mg/L)	<0.010	0.132	1.79	<0.010
	Lead (Pb)-Total (mg/L)	<0.000050	0.000090	0.000578	<0.000050
	Lithium (Li)-Total (mg/L)	0.00076	0.00066	0.00203	<0.00050
	Magnesium (Mg)-Total (mg/L)	12.9	16.1	21.4	3.26
	Manganese (Mn)-Total (mg/L)	0.00023	0.00283	0.0442	0.00024
	Mercury (Hg)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Total (mg/L)	0.00078	0.00094	0.00109	0.00071
	Nickel (Ni)-Total (mg/L)	<0.00050	<0.00050	0.00195	<0.00050
	Potassium (K)-Total (mg/L)	1.73	1.60	1.59	0.91
	Selenium (Se)-Total (mg/L)	0.00040	<0.00010	0.00012	0.00010
	Silicon (Si)-Total (mg/L)	3.14	3.66	4.12	3.18
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	1.48	0.98	1.37	1.10
Strontium (Sr)-Total (mg/L)	0.0535	0.0812	0.129	0.0398	
Thallium (Tl)-Total (mg/L)	<0.000010	<0.000010	0.000024	<0.000010	

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1058481-1 WATER 13-SEP-11 13:13 ELD11-05	L1058481-2 WATER 13-SEP-11 16:21 ELD11-06	L1058481-3 WATER 13-SEP-11 15:50 ELD11-07	L1058481-4 WATER 13-SEP-11 15:06 ELD11-08
Grouping	Analyte				
<b>WATER</b>					
<b>Total Metals</b>	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	0.069	<0.010
	Uranium (U)-Total (mg/L)	0.000313	0.000427	0.00173	0.000111
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	0.0048	<0.0010
	Zinc (Zn)-Total (mg/L)	<0.0050	<0.0050	0.0057	<0.0050
<b>Dissolved Metals</b>	Aluminum (Al)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050
	Antimony (Sb)-Dissolved (mg/L)	0.00130	0.00558	0.00689	0.00349
	Arsenic (As)-Dissolved (mg/L)	0.0165	0.0346	0.0313	0.0225
	Barium (Ba)-Dissolved (mg/L)	0.0106	0.0181	0.0206	0.00539
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	19.2	23.5	28.8	8.79
	Chromium (Cr)-Dissolved (mg/L)	0.00061	0.00038	0.00023	0.00031
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050
	Iron (Fe)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.00059	<0.00050	0.00099	<0.00050
	Magnesium (Mg)-Dissolved (mg/L)	12.8	16.1	20.5	3.13
	Manganese (Mn)-Dissolved (mg/L)	<0.00020	<0.00020	0.00023	<0.00020
	Mercury (Hg)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010
	Molybdenum (Mo)-Dissolved (mg/L)	0.00077	0.00097	0.00107	0.00067
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050
	Potassium (K)-Dissolved (mg/L)	1.74	1.61	1.33	0.90
	Selenium (Se)-Dissolved (mg/L)	0.00043	<0.00010	0.00011	<0.00010
	Silicon (Si)-Dissolved (mg/L)	3.16	3.57	3.05	3.12
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	1.46	0.98	1.33	1.08
	Strontium (Sr)-Dissolved (mg/L)	0.0544	0.0805	0.122	0.0381
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.000318	0.000433	0.00154	0.000089
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050

\* Please refer to the Reference Information section for an explanation of any qualifiers detected.

## Reference Information

## QC Samples with Qualifiers &amp; Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Beryllium (Be)-Total	DLA	L1058481-1, -2, -3, -4
Duplicate	Bismuth (Bi)-Total	DLA	L1058481-1, -2, -3, -4
Duplicate	Boron (B)-Total	DLA	L1058481-1, -2, -3, -4
Duplicate	Chromium (Cr)-Total	DLA	L1058481-1, -2, -3, -4
Duplicate	Cobalt (Co)-Total	DLA	L1058481-1, -2, -3, -4
Duplicate	Lead (Pb)-Total	DLA	L1058481-1, -2, -3, -4
Duplicate	Silver (Ag)-Total	DLA	L1058481-1, -2, -3, -4
Duplicate	Thallium (Tl)-Total	DLA	L1058481-1, -2, -3, -4
Duplicate	Tin (Sn)-Total	DLA	L1058481-1, -2, -3, -4
Duplicate	Vanadium (V)-Total	DLA	L1058481-1, -2, -3, -4
Method Blank	Manganese (Mn)-Total	MB-LOR	L1058481-1, -2, -3, -4

## Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit Adjusted For required dilution
MB-LOR	Method Blank exceeds ALS DQO. LORs adjusted for samples with positive hits below 5 times blank level. Please contact ALS if re-analysis is required.

## Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2
This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.			
ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0
This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.			
ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 B.
This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO <sub>3</sub> equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.			
HG-DIS-LOW-CVAFS-VA	Water	Dissolved Mercury in Water by CVAFS(Low)	EPA SW-846 3005A & EPA 245.7
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by filtration (EPA Method 3005A) and involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
HG-TOT-LOW-CVAFS-VA	Water	Total Mercury in Water by CVAFS(Low)	EPA 245.7
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).			
MET-D-CCMS-VA	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030 B&E / EPA SW-846 6020A
This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B



## Reference Information

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

**MET-T-CCMS-VA**                      Water                      Total Metals in Water by CRC ICPMS                      APHA 3030 B&E / EPA SW-846 6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

**MET-TOT-ICP-VA**                      Water                      Total Metals in Water by ICPOES                      EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

**NH3-F-VA**                                      Water                      Ammonia in Water by Fluorescence                      J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

**PH-PCT-VA**                                      Water                      pH by Meter (Automated)                      APHA 4500-H "pH Value"

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

**PH-PCT-VA**                                      Water                      pH by Meter (Automated)                      APHA 4500-H pH Value

This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode

It is recommended that this analysis be conducted in the field.

**TSS-VA**    Water                      Total Suspended Solids by Gravimetric                      APHA 2540 D - GRAVIMETRIC

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.

**TURBIDITY-VA**                                      Water                      Turbidity by Meter                      APHA 2130 "Turbidity"

This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

**TURBIDITY-VA**                                      Water                      Turbidity by Meter                      APHA 2130 Turbidity

This analysis is carried out using procedures adapted from APHA Method 2130 "Turbidity". Turbidity is determined by the nephelometric method.

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\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

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*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

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Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

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Chain of Custody Numbers:

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10-168577

## Reference Information

### GLOSSARY OF REPORT TERMS

*Surrogate* - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

*mg/kg* - milligrams per kilogram based on dry weight of sample.

*mg/kg ww* - milligrams per kilogram based on wet weight of sample.

*mg/kg lwt* - milligrams per kilogram based on lipid-adjusted weight of sample.

*mg/L* - milligrams per litre.

*<* - Less than.

*D.L.* - The reported Detection Limit, also known as the Limit of Reporting (LOR).

*N/A* - Result not available. Refer to qualifier code and definition for explanation.

*Test results reported relate only to the samples as received by the laboratory.*

*UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.*

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*



**Appendix 6:  
Archaeological Overview Assessment (AOA)  
Report**

June 22, 2011

Gold Fields Canada Exploration  
400-1155 Robson Street  
Vancouver, BC V6R 1B5

Tel: 604.605.8735  
Fax: 604.605.8615

Attention: Ross Sherlock

**Re: Existing Archaeological Overview Assessment (AOA) and Record Review  
Gold Fields Canada Exploration Eldorado Claim Area**

Gold Fields Canada Exploration contacted Terra Archaeology Limited regarding provision of an archaeological overview assessment (AOA) of the Eldorado Claim Area. The claim area is located within the Cascades Forest District approximately 10 km northwest of the northern tip of Carpenter Lake (Figure 1). The purpose of an AOA is to assess the potential for archaeological sites within a given area, and to make recommendations for further archaeological work.

During the preliminary stages of Terra's assessment work it was determined that an AOA model had been previously formulated. In 1997, the Archaeology Branch and Lillooet Forest District<sup>1</sup> commissioned an AOA (Millennia Research 1999). The Eldorado Claim falls within that AOA study area. The 1999 district-wide AOA provides an archaeological potential model at a scale of 1:20,000. The existing AOA is very comprehensive, and for this reason Terra did not initiate a redundant effort. Any new modeling would have been based on similar predictive criteria and therefore would likely present similar results.

The predictive criteria for the 1999 AOA included but was not limited to: distance to water sources; terrain characteristics such as aspect and slope; and, ethnographic data. Detailed information regarding the predictive modeling criteria used for the 1999 AOA can be found in the report entitled *Archaeological Overview Assessment Lillooet Forest District* (Millennia Research 1999).

Given the existing AOA, Terra conducted a brief record review for the claim area utilizing the Archaeology Branch of the Ministry of Natural Resource Operations' online library, previous study areas database via their Archaeological Data Import Facility (ADIF), as well as their Remote Access to Archaeological Data (RAAD) facility. This review was intended to determine if any archaeological sites had been recorded, or if any additional assessments had been conducted, within the specific claim area that could provide further details regarding archaeological potential. Although our review revealed that no previously recorded protected archaeological sites have been registered with the Archaeology Branch, several culturally modified trees (CMTs), trails, and a variety of other types of cultural heritage sites have been identified during forestry-related archaeological surveys (Equinox Research and Consulting Ltd. 2001;2003). The closest previously recorded protected archaeological site (EfRq-1) is located approximately 2.75 km southeast of the southern portion of the claim area. The site is a subsurface lithic scatter site identified

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<sup>1</sup> As a result of subsequent reorganization of forestry regions, the Lillooet Forest District is now within the Cascades Forest District.

during a forestry-related archaeological survey (Kamp and Weinberger 2007). The site consists of artifacts which are suspected to date to 2400 years BP (before present). The identification of this protected archaeological site, together with the identification of unprotected cultural heritage sites, suggests that the general area has been utilized in the past. Because few archaeological surveys have been conducted in the claim area, the absence of recorded protected archaeological sites may simply reflect the limited nature of archaeological work to-date. The field data on record for the claim area is not considered sufficient for predicting archaeological potential.

Although the 1999 AOA report (Millennia Research 1999) proposes further archaeological work for various zones of potential, it also recommends that the model be updated on a regular basis. As with most such AOA models, ongoing field testing is required in order to confirm the potential assessments and keep the model up-to-date. Also, since it has been over a dozen years since information was compiled for the AOA, local First Nations should be contacted as they may have new information to contribute which may prove beneficial for predicting archaeological potential. These steps are necessary to ensure recommendations for further archaeological work for the various potential zones are appropriate. Such steps would be necessary whether guided by a pre-existing AOA, or whether guided by a new or updated AOA. Our review found no evidence that the 1999 AOA model has been updated since it was generated, and we recommended that it be used as would a new AOA model: i.e., to guide initial planning for the claim area (see below) until it can be appropriately field-tested and until First Nations have the opportunity to contribute new information.

A field program could be conducted to confirm the AOA model's accuracy within the claim area. Results could then be used to update the model. However, as funding may not be available for this type of work at this stage of the Eldorado project, it is recommended that any specific plans that are expected to cause ground disturbance be subject to an archaeological field reconnaissance. If possible, impact areas could be planned in areas of low archaeological potential based on the existing district AOA model. Once the location is determined, the area could be quickly field-checked to confirm the low potential rating. This would also provide data to help determine the model's accuracy and would help ensure that areas assessed as having potential for archaeological sites were avoided. Depending on development plans, it may also be appropriate to have a professional archaeologist apply for a *Heritage Conservation Act* Inspection permit for the claim area. Having a permit in-hand would ensure that if archaeological potential was identified in the field, and if development plans could not avoid the area, the area could be archaeologically tested to determine if development plans were in conflict with unrecorded archaeological sites.

As previous archaeological assessments have identified cultural heritage issues in the area that are not protected by the *Heritage Conservation Act*, but which are of concern to the local First Nations, it is recommended that these local groups be contacted and information regarding these site types be obtained from these communities prior to fieldwork. It is also recommended that members of the appropriate First Nations take part in any archaeological site visits as they may have information regarding unrecorded archaeological sites and/or other heritage sites and their locations.

Please feel free to contact me if you have any questions regarding this review, our recommendations or the archaeological process.

Sincerely,  
TERRA ARCHAEOLOGY LIMITED



Dan Weinberger, RPCA

DPW/jgc

## References Cited

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### **Equinox Research and Consulting Ltd.**

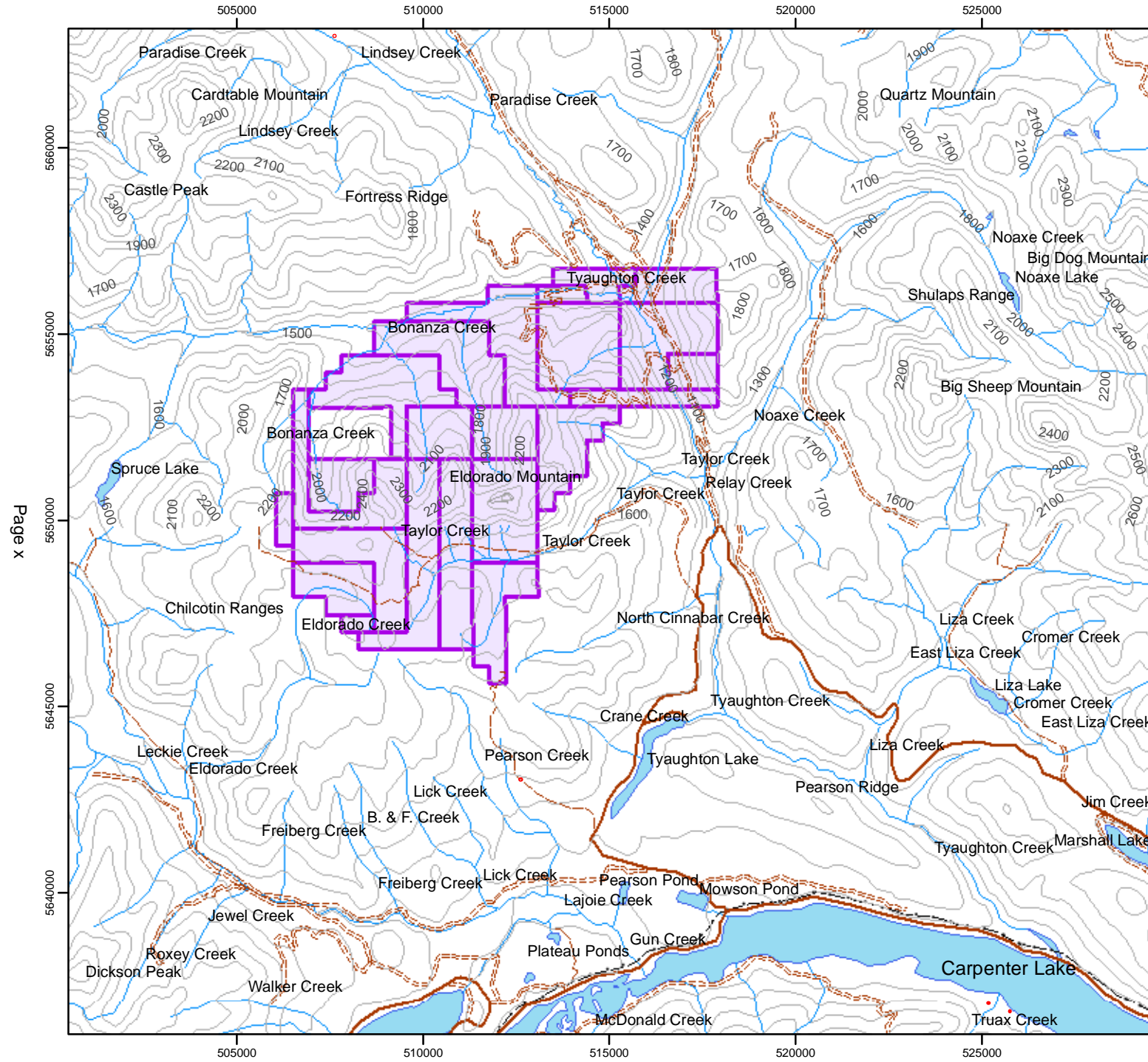
- 2003 Archaeological Impact Assessment conducted in FL A18700, Cutting Permit 188, within the Lillooet Forest District, for the Lillooet Tribal Council and Ainsworth Lumber Company Ltd. HCA Permit 2002-232. Report on file with the Archaeology Branch, Ministry of Natural Resource Operations, Victoria, B.C.
- 2001 Archaeological Impact Assessments conducted in Cutting Permits 114 and 169, within the Lillooet Forest District for the Lillooet Tribal Council and Ainsworth Lumber Company Ltd. HCA Permit 2000-310. Report on file with the Archaeology Branch, Ministry of Natural Resource Operations, Victoria, B.C.

### **Kamp, Sarah and Dan Weinberger**

- 2007 Ministry of Forests Proposed Developments in the South French Bar Creek and Freiberg-Pearson Creek Areas, Cascades Forest District, British Columbia. HCA Permits 2002-316 & 2002-320. Report on file with the Archaeology Branch, Ministry of Natural Resource Operations, Victoria, B.C.

### **Millennia Research**

- 1999 Archaeological Overview Assessment Lillooet Forest District. Report on file with the Archaeology Branch, Ministry of Natural Resource Operations, Victoria, B.C.

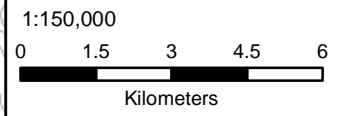


**Figure 1. Eldorado Tenure**

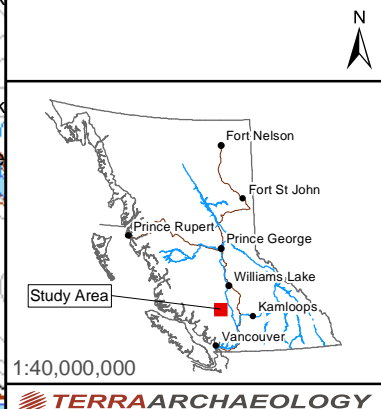
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 BCGS 1:20,000 Mapsheet 92O.006, 92O.007 & 92J.096

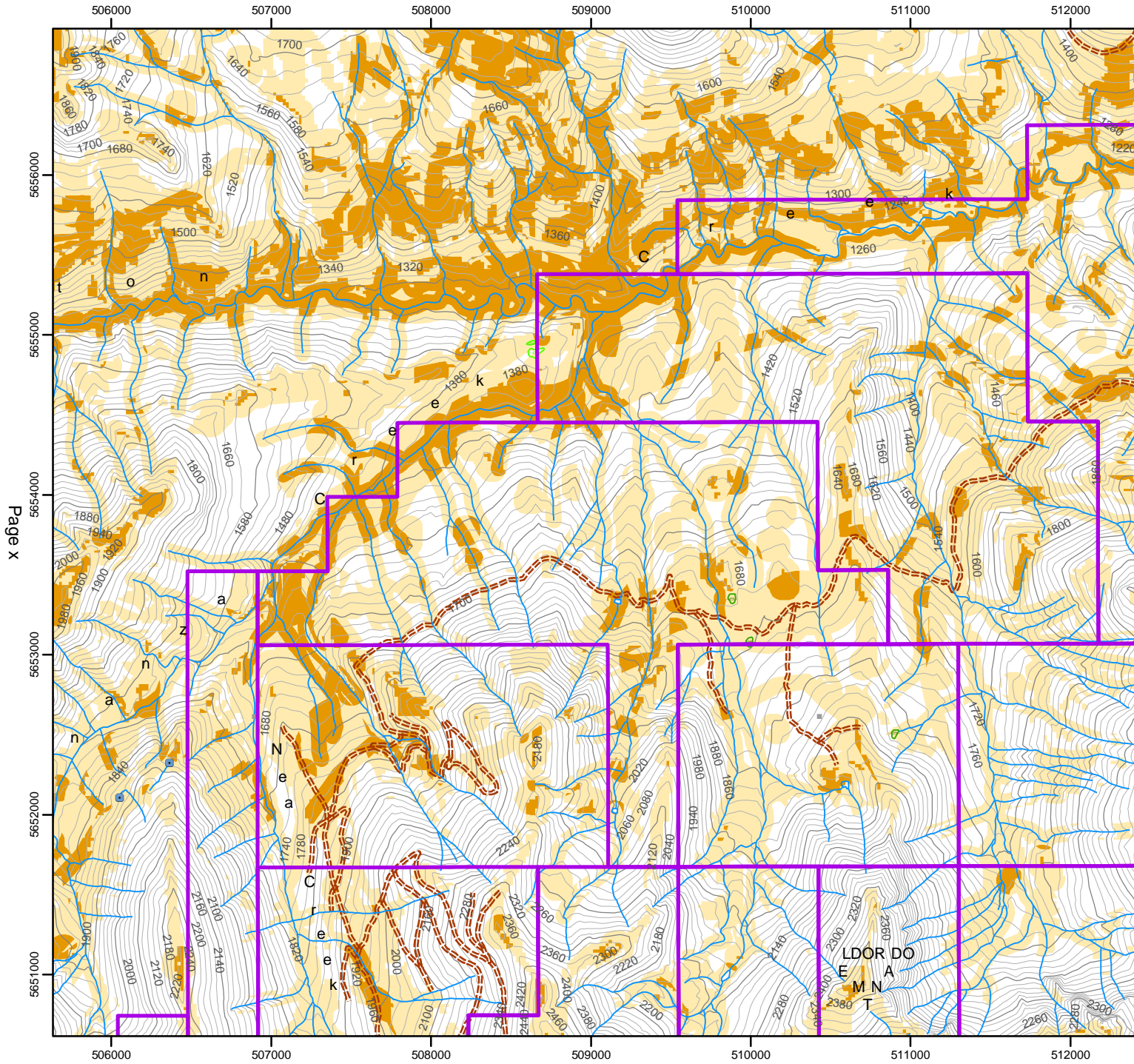
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- Eldorado Tenure
- Archaeology Sites
- Road (Main)
- Road (Secondary)
- Trail
- Contour
- River/Creek
- Waterbody

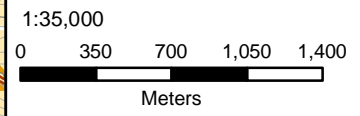




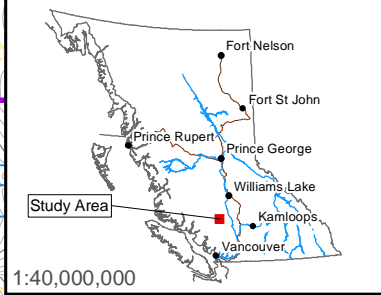


**Figure 2. Eldorado Tenure**

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 BCGS 1:20,000 Mapsheet 92O.006, 92O.007 & 92J.096  
 Datum: NAD 1983 UTM Zone 10



- Eldorado Tenure
- Archaeological Potential**
- HIGH
- MOD
- Road (Main)
- Road (Secondary)
- Trail
- Contour
- River/Creek
- Waterbody

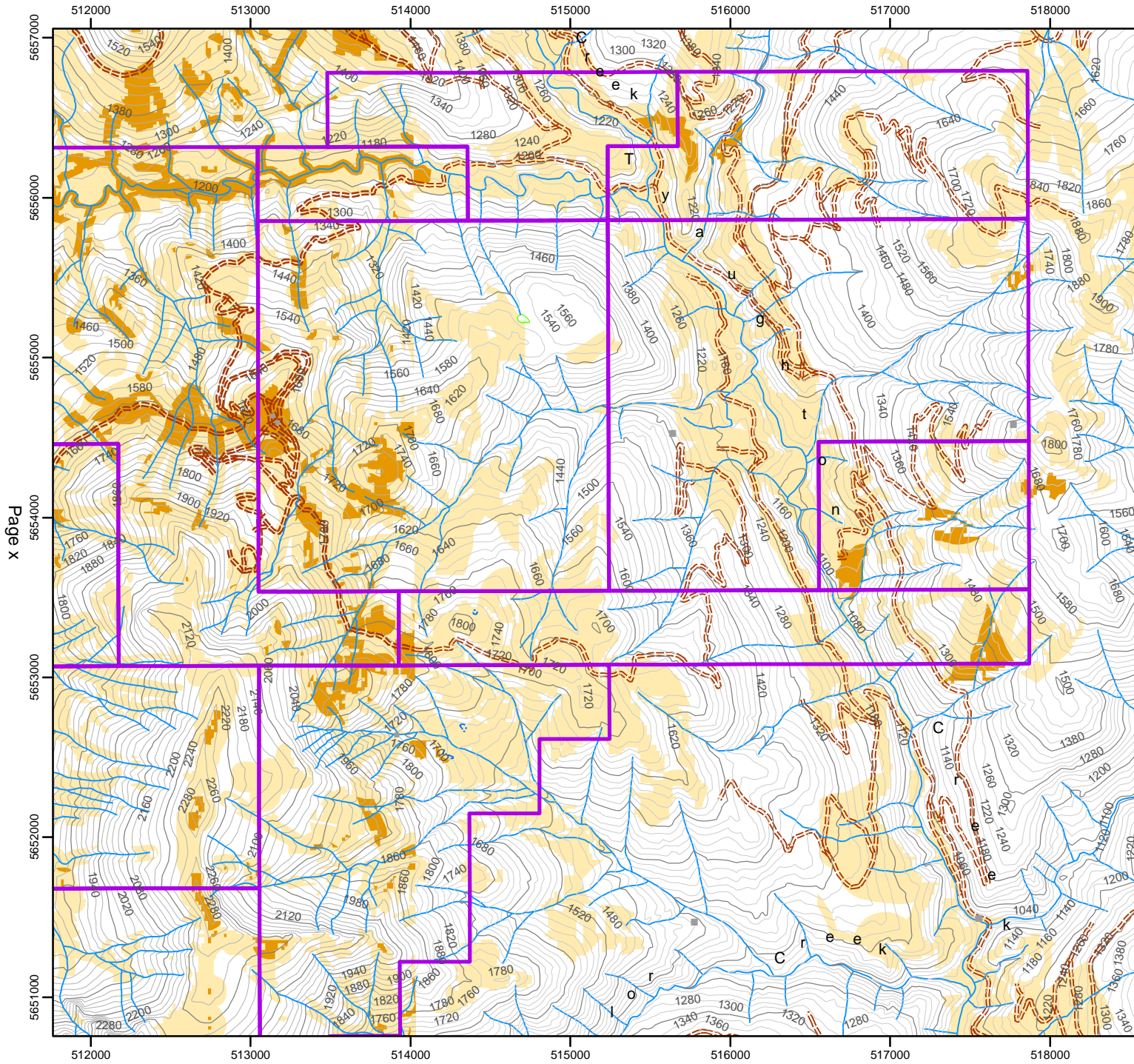


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**TERRAARCHAEOLOGY**

Page X

HCA Permit 2010-00xx: Goldfields AOA

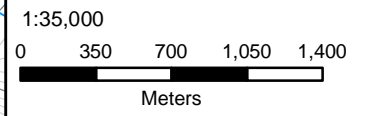


**Figure 3. Eldorado Tenure**

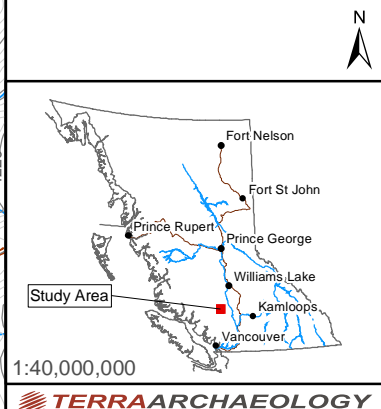
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 Client: Gold Fields Canada Exploration

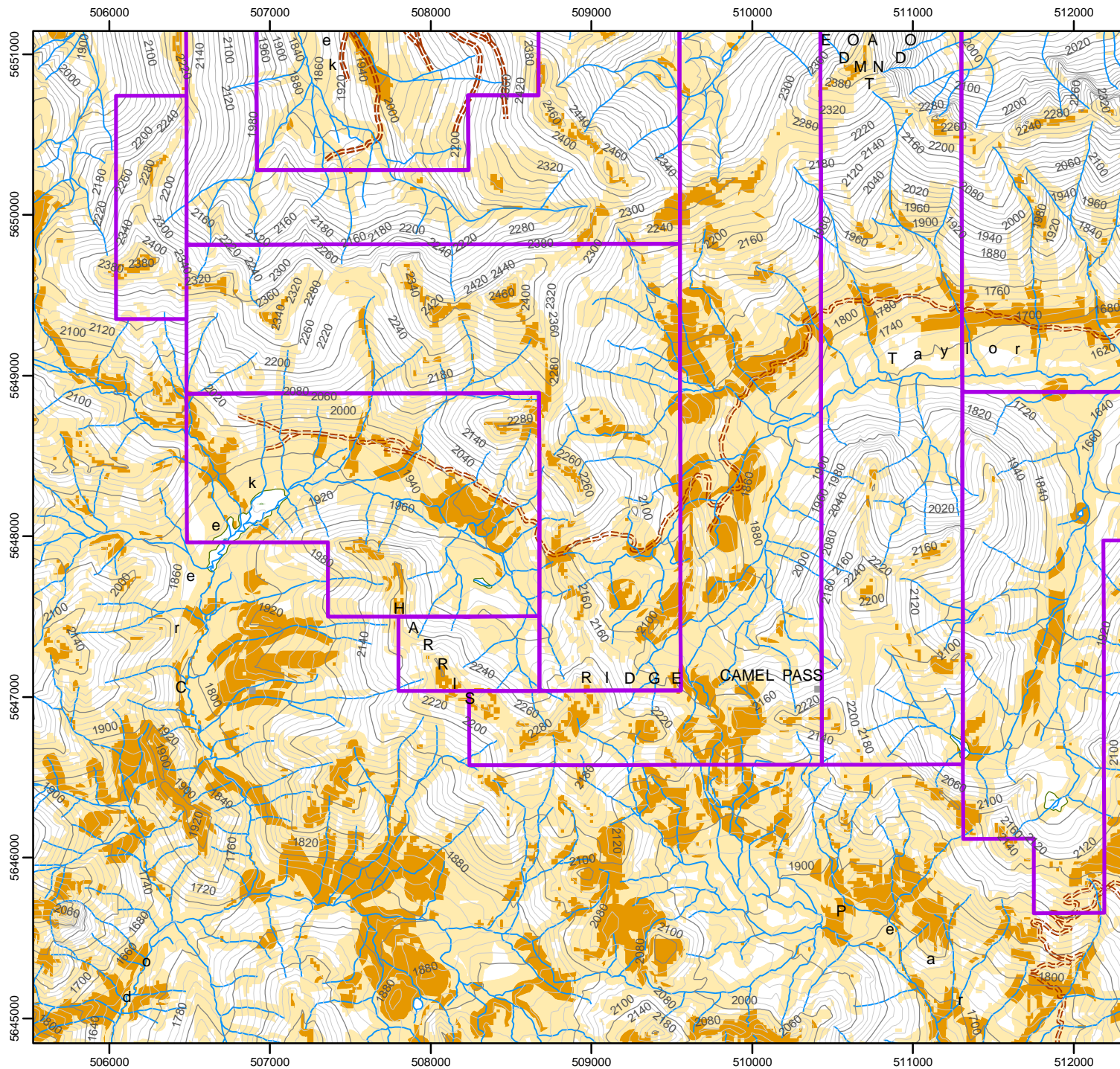
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Datum: NAD 1983 UTM Zone 10



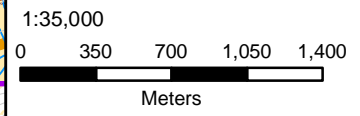
- Eldorado Tenure
- Archaeological Potential**
- HIGH
- MOD
- Road (Main)
- Road (Secondary)
- Trail
- Contour
- River/Creek
- Waterbody



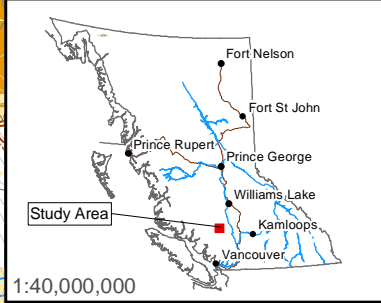


**Figure 4. Eldorado Tenure**

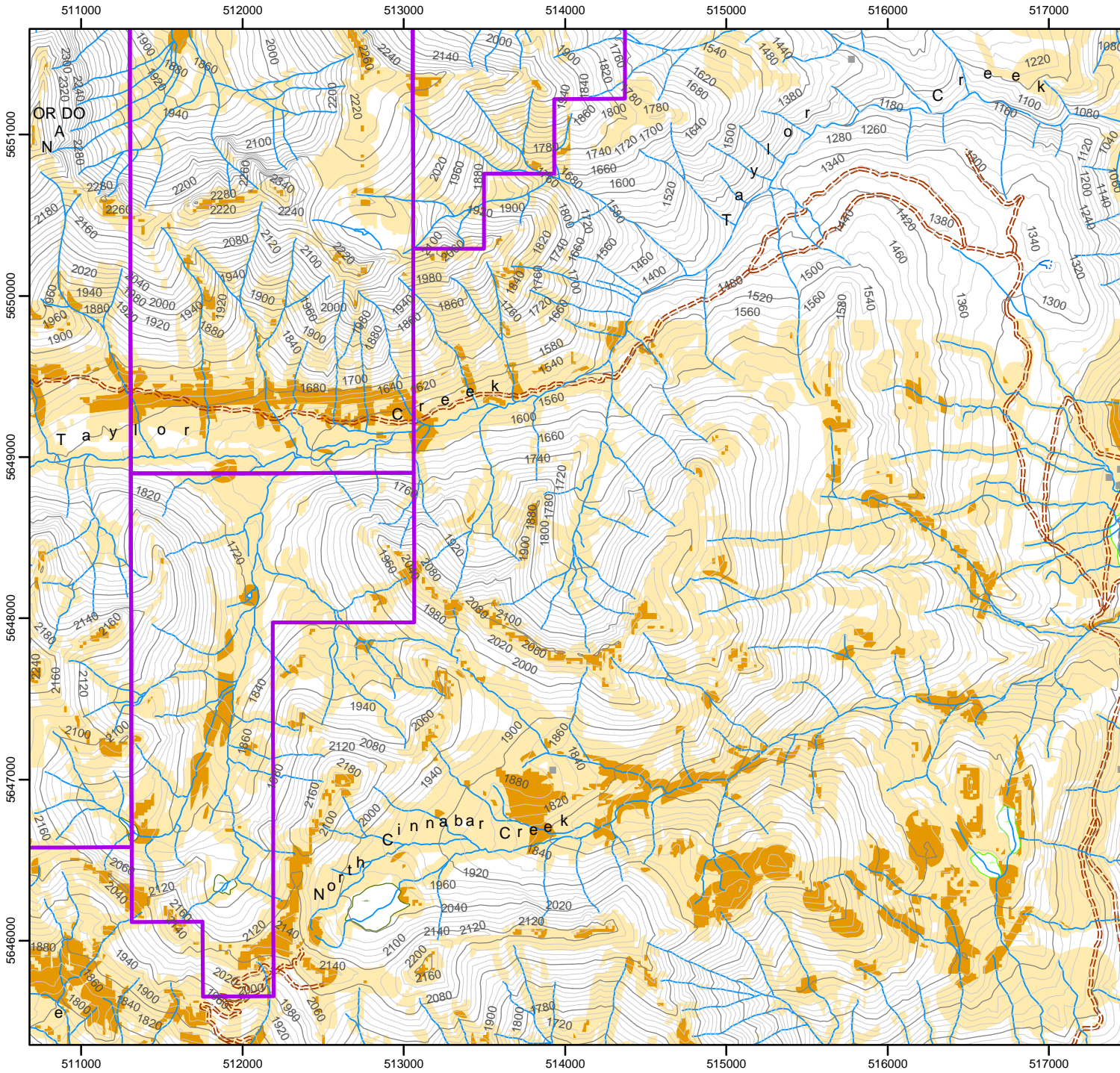
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 BCGS 1:20,000 Mapsheet 92O.006, 92O.007 & 92J.096  
 Datum: NAD 1983 UTM Zone 10



- Eldorado Tenure
- Archaeological Potential**
- HIGH
- MOD
- Road (Main)
- Road (Secondary)
- Trail
- Contour
- River/Creek
- Waterbody



**TERRAARCHAEOLOGY**

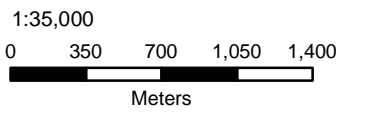


**Figure 5. Eldorado Tenure**

Terra ID: 11-0591-003  
 Client: Gold Fields Canada Exploration

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 BCGS 1:20,000 Mapsheet 92O.006, 92O.007 & 92J.096

Datum: NAD 1983 UTM Zone 10



- Eldorado Tenure
- Archaeological Potential**
- HIGH
- MOD
- Road (Main)
- Road (Secondary)
- Trail
- Contour
- River/Creek
- Waterbody



1:40,000,000

**TERRAARCHAEOLOGY**

**Appendix 7:  
Drill Log**



## Data Logger Print Logs ~ Collars

**DataSet:** ELD\_GF

Depth (m)	Hole Type	Core Diameter	Grid ID	East	North	Elevation	Survey Method	Survey Date	Survey By	Date Started	Date Completed	Logged By	Prospect	Validated By
-----------	-----------	---------------	---------	------	-------	-----------	---------------	-------------	-----------	--------------	----------------	-----------	----------	--------------

**Hole:** ELD11-03

367.89 m	DD	NQ	UTM10N_NAD83	508512	5651702	2266	GPS	13/08/2011	TS	26/08/2011	29/08/2011	TS	Eldorado	TS
----------	----	----	--------------	--------	---------	------	-----	------------	----	------------	------------	----	----------	----

See Quick Log



DataSet: ELD\_GF

Hole ID: ELD11-03

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	0	3.05	Overburden	Overburden (OB)	

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments

Structure:	From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	3.05	8.23	Medium Grained Quartz diorite	none yet	Fe-carb altered Qtz diorite with pervasive Fe-oxidation (dominant on/around fracture planes). Blocky/broken core, with pervasive oxidation observed. Lower contact not known in broken clay rich section of core; Vwk mag

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
	3.05	8.23	Sil	Primary	S	FeCarb	OvPrnt	M	Lim/Goe	OvPrnt	S				Strong to intense pervasive silicification with a patchy weak to moderate Fe Carb and oxidation overprint. Some weak clay along fracture planes. Alteration decreases towards lower contact.

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
	3.05	8.23	Apy	0.01	DIS	Py	0.1	DIS							subtrace aspy

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
	3.05	8.23	VQtz	±qtz	1	VFeCarb	±FeCarb	1							

Structure:	From (m)	To (m)	Type	Intensity	CA Angle
	3.05	8.23	RUB	W	

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	8.23	34.75	Medium Grained Quartz diorite	none yet	Light brown-grey equigranular quartz diorite with fracture controlled Fe Carb and oxidation alteration. Rare sub-trace Aspy and Py throughout. Local increase in Aspy to 0.1% in a quartz-carb vein from 27.80-29.26m. Vwk mag



**DataSet:** ELD\_GF

**Hole ID:** ELD11-03

**Alteration:**

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
8.23	34.75	Lim/Goe	OvPrnt	W	Sil	Primary	M	FeCarb	OvPrnt	W				Fracture controlled ox; Wk to mod Fe Carb overprinting; weak chlorite alteration of the mafics (biotite) ; 21.27-24.66m; 29.32-29.55m; and 32.3-33.0m mafics obliterated by altn and feldspars replaced by silica giving bleached appearance.

**Minerals:**

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
8.23	27.8	Apy	0.01	DIS	Py	0.01	DIS							Rare sub-trace Aspy and Py throughout. Local increase in Aspy to 0.1% in a quartz-carb vein from 27.80-29.26m.
27.8	29.26		0.25	AGG										
29.26	34.75		0.01	DIS	Py	0.01	DIS							

**Veining:**

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
8.23	27.8	VFeCarb	±FeCarb	0.5	VQtz	±qtz								Local increase in Aspy to 0.25% in a quartz-carb bx vein from 27.80-29.26m.
29.26	34.75													
27.8	29.26	VQCarb	±carb	100										

**Structure:**

From (m)	To (m)	Type	Intensity	CA Angle
8.23	10.58	RUB	M	
27.8	29.26	BRX		
34.34	34.75	RUB	S	

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	34.75	223.26	Medium Grained Quartz diorite	none yet	Med grey equigranular vwk to wk magnetic qtz diorite. Wk ox along fracture planes to 38.26m. Dom. un-altered to weakly altd qtz diorite with zones from 2cm to greater than 1.5m of qtz-Fe Carb alteration associated with qtz-carb-sulfide veins.





DataSet: ELD\_GF

Hole ID: ELD11-03

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
	34.75	98.36	FeCarb	VnEnv	S	FeCarb	OvPrnt	VW	Chlor	Regional	W				mafics (biotite) altering to Chlorite; Dominantly un-altered to weakly altered quartz diorite with zone ranging in size from 2cm to 1.71m of qtz-sil/Fe Carb +/- sericite and rare py alteration associated with qtz-carb-sulfide veins
	98.36	112.56	Cly	Primary	M		VnEnv	W	FeCarb	OvPrnt	VW				Mafic content decreases and clay content increases. This interval has sections of very friable core. Some zone have stronger clay alteration. Decrease in qtz-carb-sulfide veining and associated qtz-sil-Fe Carb altn
	112.56	197.95	FeCarb	VnEnv			OvPrnt	VW	Chlor	Regional	W				mafics (biotite) being replaced by chlorite/Fe Carb; . Dominantly un-altered to weakly altered quartz diorite with zones of of qtz-sil/Fe Carb +/- sericite and rare py alteration associated with qtz-carb-sulfide veins.
	197.95	223.26		OvPrnt	VW		VnEnv	W							chlorite and Fe Carb replace mafics (biotite); rare qtz-sil/Fe Carb +/- sericite and rare py alteration associated with qtz-carb-sulfide veins; 201.17-202.24m increased FeCarb altn of mafics

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
	34.75	98.36	Apy	0.5	MASS	Sph	0.25	MASS	Sb	0.1	DIS	Py	0.5	DIS	sulfide (aspy, sph, py, sb) mineralization appear to be contained within the qtz-carb-sulfide veins and associated alteration halo. Sb trace throughout. Py occasionally diss with in host rock
	98.36	112.56		0.1			0.1		Py	0.25					similar to 34.75-98.36m but with less veining and associated sulfides
	112.56	197.95		0.5			0.25		Sb	0.1	MASS	Py	0.5	DIS	continuation of 34.75-98.36m
	197.95	223.26	Py	0.01	DIS										subtrace py

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
	112.56	154.7	VQCarb	±apy±sph	1	VFeCarb	±FeCarb	1							same as 34.75-98.36m; py within veins; rare sb vein and associated alteration halo ranging in size from 2cm to 1.71m; py in veins; rare Sb less veining than from 34.75-98.36m.
	34.75	98.36			1.5										
	98.36	112.56			1										series of sheeted breccia veins with milled sulphides and qtz/carb clasts with qtz-sil/Fe Carb +/- sericite and rare py alteration
	187.54	187.87		±apy±py	85										
	154.7	157.23		±apy±sph	30			5							series of sheeted brecciated qtz-carb veins with milled sulfides and qtz frags and qtz carb veins with aspy-sph-py. Veins have qtz-sil/Fe Carb +/- sericite and rare py alteration halos some veins as wide as 1cm; various orientations
	197.95	223.26	VFeCarb	±FeCarb	5										
	157.23	187.54	VQCarb	±apy±sph	1	VFeCarb	±FeCarb	5							



DataSet: ELD\_GF

Hole ID: ELD11-03

187.87 197.95 ±apy±py 0.5

**Structure:**

From (m)	To (m)	Type	Intensity	CA Angle
57.75	57.86	FLTG	VS	80
98.36	112.56	RUB	W	
175.1	175.6		M	
191.25	191.96		W	

	From (m)	To (m)	GF Lith	Local Lith	Description
<b>LITHO</b>	223.26	327.52	Medium Grained Quartz diorite	none yet	Med to coarse grained lt grey equigranular vwk to weakly mag quartz diorite; coarser version of qtz diorite up hole; un-alt'd to wk alt'd w zones of qtz-sil/Fe Carb +/- sericite and rare py altn assoc w qtz-carb-sx vn

**Alteration:**

From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
223.26	243.85	FeCarb	OvPrnt	W	FeCarb	VnEnv	W	Chlor	Regional	W				
243.85	327.52						M							chlorite and Fe Carb altn/replacement of mafics (biotite)

**Minerals:**

From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
223.26	243.85	Py	0.01	DIS										subtrace py
243.85	327.52	Apy	0.2		Sph	0.1	DIS	Cpy	0.01	DIS	Py	0.5	DIS	sub trace to trace sph; sub trace cpy (Cpy and Bo tends to be within the host rock not veining)

**Veining:**

From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
243.85	327.52	VQCarb	±apy±py	0.5	VFeCarb	±FeCarb	1							multiple qtz-carb vn w sx (dom apy and py), some vn have a bx texture, sx include aspy, py, cpy +/-Bo (rare) and sph (ocass), distinctive veins at 266.37-266.55m; 268.90m, 271.7m, 276.35m and 292.65-292.85 (Cpy and Bo). Milled Sx within some veins
223.26	243.85	VFeCarb	±FeCarb	1										

**Structure:**

From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
<b>LITHO</b>	327.52	332.42	Medium Grained Quartz diorite	none yet	sharp upper contact at 40tca marked by a qtz-carb vein; from 328.44-329.94m finer grained "finger /sliver" of quartz diorite that runs sub parallel to core axis. Lower contact transitional and lost in strongly altered diorite.



**DataSet:** ELD\_GF

**Hole ID:** ELD11-03

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
	327.52	330.89	FeCarb	OvPrnt	VW	Chlor	Regional	VW							Dominantly un-altered to weakly altered quartz diorite with a weak Fe Carb alteration of mafics (biotite) as well as a weak regional chlorite alteration selectively replacing the mafics (bioite). A weak grading into a moderate Fe Carb alteration of mafics as well as a weak Fe Carb halo of qtz-carb veins.
	330.89	332.42			M	FeCarb	VnEnv	W	Chlor	Regional	VW				

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
	327.52	332.42	UnMin	0											No sulphide mineralization observed

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
	327.52	332.42	VFeCarb	±FeCarb	0.5										

Structure:	From (m)	To (m)	Type	Intensity	CA Angle

	From (m)	To (m)	GF Lith	Local Lith	Description
LITHO	332.42	367.89	Medium Grained Quartz diorite	none yet	med to coarse gr lt grey equigran vwk to wk mag qtz dio s223.26-327.52m. Sections of mod to str Fe Carb altn w zones of wk altn; fault zones at 238.87-340.93m and 352.93-353.93m; 358.1-362.89m qtz-carb bx vn with rare milled sx and aspy.



**DataSet:** ELD\_GF

**Hole ID:** ELD11-03

Alteration:	From (m)	To (m)	Alt 1 Code	Alt 1 Interp	Alt 1 Int	Alt 2 Code	Alt 2 Interp	Alt 2 Int	Alt 3 Code	Alt 3 Interp	Alt 3 Int	Alt 4 Code	Alt 4 Interp	Alt 4 Int	Comments
	332.42	335.61	FeCarb	OvPnt	M	FeCarb	VnEnv	M	Chlor	Regional	W				Moderate Fe Carb alteration of mafics as well as a weak Fe Carb halo of qtz-carb-sx bx veins. There is also a weak regional chlorite alteration selectively replacing the mafics (bioite).
	335.61	337.73			W			VW							Dominantly un-altered to weakly altered quartz diorite with a weak Fe Carb alteration of mafics (biotite) as well as Fe Carb halos around carb veins. There is also a weak regional chlorite alteration selectively replacing the mafics (bioite).
	337.73	343			M			W							Moderate to strong Fe Carb alteration of mafics as well as moderate to strong clay alteration of feldspars. This zone has a washed out bleached appearance. This alteration zone related to the fault at 238.87-340.93m.
	343	349.78													Patchy weak to moderate Fe Carb alteration of the mafics. Local increased to moderate Fe Carb alteration related to Carb veining.
	349.78	367.89													Moderate to strong Fe Carb alteration of mafics as well as moderate to strong clay alteration of feldspars. This zone has a washed out bleached appearance. This alteration zone is possibly related to the fault at 352.93-353.93m.

Minerals:	From (m)	To (m)	Min 1 Code	Min 1 %	Min 1 Style	Min 2 Code	Min 2 %	Min 2 Style	Min 3 Code	Min 3 %	Min 3 Style	Min 4 Code	Min 4 %	Min 4 Style	Comments
	332.42	335.61	Apy	0.1	DIS	Py	0.5	DIS							
	335.61	358.1					0.1		SULP	0.05	VEN				rare milled sulfides in qtz-carb veins;
	358.1	362.89													From 358.1-362.89m multiple qtz-carb bx veins with rare milled sulphides and aspy.
	362.89	367.89	UnMin	0											

Veining:	From (m)	To (m)	Vein 1	Vein 1 Mod	Vein 1 %	Vein 2	Vein 2 Mod	Vein 2 %	Vein 3	Vein 3 Mod	Vein 3 %	Vein 4	Vein 4 Mod	Vein 4 %	Comments
	332.42	335.61	VQCarb	±py	5	VFeCarb	±carb	1							the major vein in this interval is dominated by py but also contains aspy and milled sulphides; breccia vein
	362.89	367.89		±carb	20		±FeCarb								increase qtz-carb veining towards end of hole
	358.1	362.89		±apy±py											multiple breccia veins with milled sulfides as well as minor py and aspy
	335.61	358.1			0.5			0.5							milled sulfides

Structure:	From (m)	To (m)	Type	Intensity	CA Angle
	338.87	340.93	FLT	S	40
	352.93	353.93		M	
	357	361.87	RUB	W	



# Data Logger Print Logs ~ Geotechnical

**DataSet:** ELD\_GF

**Hole ID:** ELD11-03

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	RQD (m)	RQD %	Matrix Type	Num Fracts.	Fract Freq / m	Strength	Material Description	Comments
3.05	3.66	0.61	0.75	122.95	0	0		40	40	STR		
3.66	6.1	2.44	1.34	54.92	0.12	4.92		108	108	STR		
6.1	8.3	2.2	0.86	39.09	0.26	11.82		53	53	STR		
8.3	9.45	1.15	0.62	53.91	0	0		200	200	STR		some clay along fractures
9.45	11.28	1.83	1.41	77.05	0.7	38.25		78	78	STR		
11.28	14.33	3.05	3.07	100.66	1.3	42.62		35	35	STR		
14.33	17.37	3.04	2.61	85.86	1.53	50.33		67	67	STR		
17.37	20.72	3.35	2.95	88.06	1.78	53.13		37	37	STR		
20.72	22.56	1.84	2	108.7	1.1	59.78		40	40	STR		
22.56	24.08	1.52	1.3	85.53	0.17	11.18		90	90	STR		
24.08	25.94	1.86	1.76	94.62	0.42	22.58		24	24	VSTR		
25.94	28.04	2.1	1.64	78.1	0.28	13.33		127	127	STR		
28.04	29.96	1.92	0.97	50.52	0.6	31.25		25	25	STR		
29.96	30.48	0.52	0.65	125	0.47	90.38		200	200	STR		actual recovery 0.9cm (173.08%)
30.48	32.61	2.13	1.95	91.55	0.88	41.31		28	28	STR		
32.61	34.75	2.14	1.29	60.28	0.39	18.22		248	248	STR		
34.75	35.66	0.91	1.08	118.68	0.92	101.1		3	3	STR		
35.66	38.71	3.05	2.6	85.25	1.23	40.33		85	85	STR		
38.71	41.45	2.74	2.29	83.58	0	0		100	100	STR		
41.45	44.2	2.75	2.53	92	0.95	34.55		40	40	STR		
44.2	44.81	0.61	0.75	122.95	0.22	36.07		40	40	STR		
44.81	47.85	3.04	2.26	74.34	0.71	23.36		95	95	STR		
47.85	50.9	3.05	2.77	90.82	1.35	44.26		70	70	STR		
50.9	53.95	3.05	3.02	99.02	2.59	84.92		0	0	STR		
53.95	57	3.05	2.87	94.1	2.55	83.61		18	18	STR		
57	59.74	2.74	2.65	96.72	0.71	25.91		76	76	STR		
59.74	62.79	3.05	2.66	87.21	1.2	39.34		33	33	STR		
62.79	64.92	2.13	2.1	98.59	0.53	24.88		44	44	STR		
64.92	66.14	1.22	1.28	104.92	1.17	95.9		3	3	STR		
66.14	68.88	2.74	2.8	102.19	2.56	93.43		8	8	STR		
68.88	71.32	2.44	2.52	103.28	2.13	87.3		5	5	VSTR		
71.32	72.24	0.92	0.67	72.83	0	0.23		3	3	STR		
72.24	75.29	3.05	2.72	89.18	1.94	63.61		15	15	STR		
75.29	78.03	2.74	2.35	85.77	1.43	52.19		93	93	STR		
78.03	79.55	1.52	1.3	85.53	0.65	42.76		71	71	STR		
79.55	81.38	1.83	1.83	100	1.29	70.49		25	25	STR		
81.38	84.43	3.05	3	98.36	2.45	80.33		75	75	STR		



## Data Logger Print Logs ~ Geotechnical

Hole ID: **ELD11-03**

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	RQD (m)	RQD %	Matrix Type	Num Fracts.	Fract Freq / m	Strength	Material Description	Comments
84.43	87.43	3	2.9	96.67	2.23	74.33		6	6	STR		
87.43	90.53	3.1	2.85	91.94	1.45	46.77		53	53	STR		
90.53	93.27	2.74	2.2	80.29	0.81	29.56		70	70	STR		
93.27	93.88	0.61	0.61	100	0.23	37.7		18	18	STR		
93.88	96.62	2.74	2.52	91.97	1.44	52.55		15	15	STR		
96.62	99.67	3.05	2.77	90.82	1.45	47.54		120	120	STR		
99.67	102.72	3.05	1.84	60.33	0.14	4.59		350	350	VWK		
102.72	105.77	3.05	2.96	97.05	0.62	20.33		250	250	STR		
105.77	108.81	3.04	2.96	97.37	1.3	42.76		90	90	STR		
108.81	111.86	3.05	2.72	89.18	2.54	83.28		107	107	STR		
111.86	114.91	3.05	3.05	100	1.77	58.03		52	52	STR		
114.91	117.96	3.05	3.1	101.64	1.47	48.2		75	75	VSTR		
117.96	121.01	3.05	2.98	97.7	2.29	75.08		17	17	STR		
121.01	124.05	3.04	2.9	95.39	2.49	81.91		13	13	STR		
124.05	127.1	3.05	3.01	98.69	1.83	60		27	27	STR		
127.1	130.15	3.05	2.9	95.08	2.9	95.08		1	1	STR		
130.15	133.2	3.05	2.99	98.03	1.95	63.93		28	28	STR		
133.2	136.25	3.05	3.03	99.34	2.36	77.38		11	11	STR		
136.25	139.29	3.04	1.99	65.46	1.79	58.88		9	9	STR		
139.29	142.34	3.05	3.03	99.34	2.59	84.92		10	10	STR		
142.34	145.39	3.05	3.02	99.02	1.62	53.11		37	37	STR		
145.39	148.44	3.05	2.79	91.48	1.4	45.9		42	42	STR		
148.44	151.49	3.05	3.01	98.69	1.41	46.23		50	50	STR		
151.49	154.53	3.04	3.05	100.33	2.24	73.68		15	15	STR		
154.53	157.58	3.05	2.94	96.39	2.17	71.15		10	10	STR		
157.58	160.63	3.05	2.91	95.41	1.79	58.69		22	22	STR		
160.63	163.68	3.05	3	98.36	2.75	90.16		11	11	STR		
163.68	166.73	3.05	3.03	99.34	3.03	99.34		4	4	STR		
166.73	169.77	3.04	3.05	100.33	3.05	100.33		9	9	STR		
169.77	172.82	3.05	3.08	100.98	2.77	90.82		10	10	STR		
172.82	175.87	3.05	2.9	95.08	2.16	70.82		70	70	STR		
175.87	178.92	3.05	3	98.36	2.57	84.26		11	11	STR		
178.92	181.95	3.03	2.99	98.68	2.43	80.2		23	23	STR		
181.95	185.01	3.06	3.07	100.33	2.75	89.87		19	19	STR		
185.01	188.06	3.05	3.1	101.64	2.48	81.31		12	12	STR		
188.06	191.11	3.05	2.94	96.39	2.41	79.02		13	13	STR		
191.11	192.63	1.52	1.32	86.84	0.39	25.66		75	75	STR		
192.63	194.16	1.53	1.66	108.5	1.18	77.12		24	24	STR		
194.16	197.21	3.05	3.01	98.69	2.87	94.1		11	11	STR		



# Data Logger Print Logs ~ Geotechnical

Hole ID: **ELD11-03**

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	RQD (m)	RQD %	Matrix Type	Num Fracts.	Fract Freq / m	Strength	Material Description	Comments
197.21	200.25	3.04	2.96	97.37	2.14	70.39		20	20	STR		
200.25	203	2.75	2.98	108.36	2.47	89.82		7	7	STR		
203	206.33	3.33	2.95	88.59	2.7	81.08		63	63	STR		
206.33	209.4	3.07	3	97.72	2.24	72.96		41	41	STR		
209.4	212.45	3.05	3.12	102.3	2.26	74.1		45	45	STR		
212.45	215.49	3.04	2.85	93.75	2.85	93.75		1	1	STR		
215.49	218.59	3.1	3.02	97.42	1.02	32.9		32	32	STR		
218.59	221.57	2.98	3.03	101.68	2.37	79.53		24	24	STR		
221.57	224.33	2.76	2.53	91.67	2.12	76.81		7	7	STR		
224.33	227.69	3.36	2.23	66.37	1.98	58.93		5	5	STR		
227.69	230.73	3.04	2.95	97.04	2.23	73.36		8	8	STR		
230.73	233.78	3.05	3	98.36	2.13	69.84		21	21	STR		
233.78	236.83	3.05	3.01	98.69	1.98	64.92		8	8	STR		
236.83	239.88	3.05	3.01	98.69	2.73	89.51		9	9	STR		
239.88	242.93	3.05	3.17	103.93	3.09	101.31		10	10	STR		
242.93	245.97	3.04	2.84	93.42	2.74	90.13		21	21	STR		
245.97	249.02	3.05	2.84	93.11	2.41	79.02		27	27	STR		
249.02	252.07	3.05	3.07	100.66	3	98.36		4	4	STR		
252.07	255.12	3.05	3.02	99.02	2.51	82.3		17	17	STR		
255.12	258.17	3.05	3.01	98.69	3.01	98.69		4	4	STR		
258.17	260.3	2.13	1.8	84.51	1.44	67.61		18	18	STR		
260.3	261.21	0.91	0.8	87.91	0.29	31.87		10	10	VSTR		
261.21	264.26	3.05	3.1	101.64	3.1	101.64		9	9	STR		
264.26	266.4	2.14	2.06	96.26	1.4	65.42		63	63	STR		
266.4	269.44	3.04	3	98.68	2.2	72.37		73	73	STR		
269.44	271.58	2.14	1.83	85.51	1.83	85.51		25	25	STR		cave at end of interval
271.58	273.41	1.83	1.91	104.37	1.81	98.91		8	8	STR		
273.41	276.45	3.04	3.01	99.01	1.4	46.05		85	85	STR		
276.45	279.5	3.05	2.95	96.72	2.86	93.77		5	5	STR		
279.5	282.85	3.35	3.06	91.34	2.27	67.76		15	15	STR		
282.85	285.6	2.75	3.05	110.91	3.05	110.91		4	4	STR		
285.6	287.73	2.13	1.94	91.08	0.83	38.97		31	31	STR		
287.73	290.78	3.05	2.98	97.7	2.98	97.7		3	3	STR		
290.78	293.22	2.44	2.46	100.82	2.46	100.82		6	6	STR		
293.22	295.96	2.74	2.81	102.55	2.81	102.55		5	5	STR		
295.96	297.79	1.83	1.83	100	1.83	100		2	2	STR		
297.79	300.84	3.05	3.06	100.33	2.68	87.87		4	4	STR		
300.84	303.89	3.05	3.01	98.69	3.01	98.69		3	3	STR		
303.89	306.93	3.04	3.04	100	3.04	100		1	1	STR		



# Data Logger Print Logs ~ Geotechnical

**Hole ID:** ELD11-03

From (m)	To (m)	Interval Length	Recov. (m).	Recov. %	RQD (m)	RQD %	Matrix Type	Num Fracts.	Fract Freq / m	Strength	Material Description	Comments
306.93	309.98	3.05	3.05	100	3.05	100		0	0	STR		
309.98	313.03	3.05	2.99	98.03	2.99	98.03		1	1	STR		
313.03	316.08	3.05	3	98.36	3	98.36		4	4	STR		
316.08	319.13	3.05	2.93	96.07	2.93	96.07		3	3	STR		
319.13	322.17	3.04	3.04	100	2.8	92.11		2	2	STR		
322.17	325.22	3.05	3.07	100.66	3.07	100.66		2	2	STR		
325.22	328.27	3.05	3.05	100	3.05	100		3	3	STR		
328.27	331.32	3.05	3.04	99.67	3.04	99.67		2	2	STR		
331.32	334.37	3.05	2.91	95.41	2.91	95.41		3	3	STR		
334.37	337.41	3.04	2.96	97.37	2.96	97.37		3	3	STR		
337.41	340.46	3.05	2.72	89.18	1.76	57.7		200	200	STR		
340.46	343.51	3.05	2.92	95.74	2.2	72.13		73	73	STR		
343.51	346.56	3.05	3	98.36	2.95	96.72		33	33	STR		
346.56	349.61	3.05	3.03	99.34	2.9	95.08		26	26	STR		
349.61	352.65	3.04	2.68	88.16				5	5	STR		
352.65	355.7	3.05	2.53	82.95	1.41	46.23		250	250	STR		
355.7	358.14	2.44	2.24	91.8	1.35	55.33		100	100	STR		
358.14	360.58	2.44	1.91	78.28	0.32	13.11		90	90	STR		
360.58	361.8	1.22	0.84	68.85	0	0		100	100	STR		
361.8	364.85	3.05	3	98.36	2.55	83.61		55	55	STR		
364.85	367.89	3.04	2.92	96.05	2.7	88.82		7	7	STR		E.O.H.





# Data Logger Print Logs ~ Mag Susceptibility

**DataSet:** ELD\_GF

**Hole ID:** ELD11-03

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
3.5	3.66	0.16	0.207	0.279	0.061	0.18		TS	06/09/2011	
3.66	6.1	2.44	0.002	0.24	0.025	0.09		TS	06/09/2011	
6.1	8.23	2.13	0.417	0.075	0.252	0.25		TS	06/09/2011	
8.23	9.45	1.22	0.258	0.149	3.875	1.43		TS	06/09/2011	
9.45	11.28	1.83	0.802	0.355	9.424	3.53		TS	06/09/2011	
11.28	14.33	3.05	0.855	8.214	0.528	3.2		TS	06/09/2011	
14.33	17.37	3.04	9.967	0.799	15.53	8.77		TS	06/09/2011	
17.37	20.72	3.35	4.873	18.05	1.557	8.16		TS	06/09/2011	
20.72	22.56	1.84	6.207	9.524	0.405	5.38		TS	06/09/2011	
22.56	24.08	1.52	0.604	1.335	0.664	0.87		TS	06/09/2011	
24.08	25.94	1.86	0.539	10.76	0.461	3.92		TS	06/09/2011	
25.94	28.04	2.1	0.61	0.308	1.182	0.7		TS	06/09/2011	
28.04	29.96	1.92	0.041	0.732	1.927	0.9		TS	06/09/2011	
29.96	30.48	0.52	3.261	3.551	1.861	2.89		TS	06/09/2011	
30.48	32.61	2.13	1.801	0.8065	0.8	1.14		TS	06/09/2011	
32.61	34.75	2.14	0.326	0.623	0.894	0.61		TS	06/09/2011	
34.75	35.66	0.91	2.327	6.805	19.62	9.58		TS	06/09/2011	
35.66	38.71	3.05	14.99	3.464	0.653	6.37		TS	06/09/2011	
38.71	41.45	2.74	2.74	7.366	11.35	7.15		TS	06/09/2011	
41.45	44.2	2.75	24.35	15.02	2.746	14.04		TS	06/09/2011	
44.2	44.81	0.61	1.81	0.993	1.545	1.45		TS	06/09/2011	
44.81	47.85	3.04	22.28	6.561	0.473	9.77		TS	06/09/2011	
47.85	50.9	3.05	1.217	29.3	29.89	20.14		TS	06/09/2011	
50.9	53.95	3.05	1.534	16.95	20.11	12.86		TS	06/09/2011	
53.95	57	3.05	17.51	1.026	6.297	8.28		TS	06/09/2011	
57	59.74	2.74	1.437	4.181	7.328	4.32		TS	06/09/2011	
59.74	62.79	3.05	19.87	26.3	9.439	18.54		TS	06/09/2011	
62.79	64.92	2.13	6.499	24.03	21.54	17.36		TS	06/09/2011	
64.92	66.14	1.22	30.3	36.03	29.7	32.01		TS	06/09/2011	
66.14	68.88	2.74	35.67	20.02	16.41	24.03		TS	06/09/2011	
68.88	71.32	2.44	15.28	21.07	18.5	18.28		TS	06/09/2011	
71.32	72.24	0.92	6.015	1.056	0.861	2.64		TS	06/09/2011	
72.24	75.29	3.05	14.34	1.54	9.784	8.55		TS	06/09/2011	
75.29	78.03	2.74	4.234	2.242	2.329	2.94		TS	06/09/2011	
78.03	79.55	1.52	0.963	0.841	1.354	1.05		TS	06/09/2011	
79.55	81.38	1.83	1.927	1.115	0.988	1.34		TS	06/09/2011	
81.38	84.43	3.05	9.352	3.462	5.49	6.1		TS	06/09/2011	



## Data Logger Print Logs ~ Mag Susceptibility

Hole ID: **ELD11-03**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
84.43	87.48	3.05	0.246	0.555	1.125	0.64		TS	06/09/2011	
87.48	90.53	3.05	0.364	13.97	5.005	6.45		TS	06/09/2011	
90.53	93.27	2.74	5.028	0.776	2.491	2.77		TS	06/09/2011	
93.27	93.88	0.61	5.081	6.427	5.297	5.6		TS	06/09/2011	
93.88	96.62	2.74	7.09	33.76	23.38	21.41		TS	06/09/2011	
96.62	99.67	3.05	5.81	12.59	0.369	6.26		TS	06/09/2011	
99.67	102.72	3.05	0.305	0.679	0.843	0.61		TS	06/09/2011	
102.72	105.77	3.05	0.44	0.737	0.739	0.64		TS	06/09/2011	
105.77	108.81	3.04	0.392	0.585	0.936	0.64		TS	06/09/2011	
108.81	111.86	3.05	2.833	0.706	1.824	1.79		TS	06/09/2011	
111.86	114.91	3.05	0.558	0.731	1.977	1.09		TS	06/09/2011	
114.91	117.96	3.05	1.393	0.739	1.37	1.17		TS	06/09/2011	
117.96	121.01	3.05	0.837	0.585	1.48	0.97		TS	06/09/2011	
121.01	124.04	3.03	0.186	0.297	0.849	0.44		TS	06/09/2011	
124.04	127.1	3.06	1.317	0.799	2.083	1.4		TS	09/09/2011	
127.1	130.15	3.05	0.236	1.6	0.508	0.78		TS	09/09/2011	
130.15	133.2	3.05	1.498	1.163	1.428	1.36		TS	09/09/2011	
133.2	136.25	3.05	1.377	0.739	1.295	1.14		TS	09/09/2011	
136.25	139.29	3.04	0.304	0.885	1.21	0.8		TS	09/09/2011	
139.29	142.34	3.05	1.354	1.797	1.416	1.52		TS	09/09/2011	
142.34	145.39	3.05	1.522	0.217	0.27	0.67		TS	09/09/2011	
145.39	148.44	3.05	0.321	1.299	0.381	0.67		TS	09/09/2011	
148.44	151.49	3.05	1.136	0.202	0.847	0.73		TS	09/09/2011	
151.49	154.53	3.04	0.447	0.311	0.67	0.48		TS	09/09/2011	
154.53	157.58	3.05	0.351	0.032	0.471	0.28		TS	09/09/2011	
157.58	160.63	3.05	0.284	0.387	0.786	0.49		TS	09/09/2011	
160.63	163.68	3.05	1.618	1.517	3.834	2.32		TS	09/09/2011	
163.68	166.73	3.05	0.73	2.43	4.239	2.47		TS	09/09/2011	
166.73	169.77	3.04	1.864	0.993	1.096	1.32		TS	09/09/2011	
169.77	172.87	3.1	0.81	0.301	0.701	0.6		TS	09/09/2011	
172.87	175.87	3	0.307	0.725	0.453	0.5		TS	09/09/2011	
175.87	178.92	3.05	2.213	0.612	7.803	3.54		TS	09/09/2011	
178.92	181.95	3.03	0.864	0.364	0.789	0.67		TS	09/09/2011	
181.95	185.01	3.06	1.904	1.656	3.002	2.19		TS	09/09/2011	
185.01	188.06	3.05	2.425	0.399	0.083	0.97		TS	09/09/2011	
188.06	191.11	3.05	0.42	1.661	0.829	0.97		TS	09/09/2011	
191.11	192.63	1.52	0.507	0.526	0.246	0.43		TS	09/09/2011	
192.63	194.16	1.53	0.548	0.7	0.529	0.59		TS	09/09/2011	
194.16	197.21	3.05	24.13	8.065	6.198	12.8		TS	09/09/2011	



## Data Logger Print Logs ~ Mag Susceptibility

Hole ID: **ELD11-03**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
197.21	200.25	3.04	6.161	5.635	35.11	15.64		TS	09/09/2011	
200.25	203	2.75	23.35	1.518	12.98	12.62		TS	09/09/2011	
203	206.33	3.33	5.064	34.85	13.97	17.96		TS	09/09/2011	
206.33	209.4	3.07	14.04	42.59	2.036	19.56		TS	09/09/2011	
209.4	212.45	3.05	1.287	2.857	13.65	5.93		TS	09/09/2011	
212.45	215.49	3.04	6.58	13.82	10.59	10.33		TS	09/09/2011	
215.49	218.59	3.1	7.286	5.491	5.167	5.98		TS	09/09/2011	
218.59	221.59	3	6.591	3.528	8.005	6.04		TS	09/09/2011	
221.59	224.33	2.74	8.109	4.829	3.296	5.41		TS	09/09/2011	
224.33	225.55	1.22	1.608	0.751	1.371	1.24		TS	09/09/2011	
225.55	227.69	2.14	0.521	1.144	1.788	1.15		TS	09/09/2011	
227.69	230.73	3.04	1.509	2.017	1.643	1.72		TS	09/09/2011	
230.73	233.78	3.05	1.21	1.031	1.104	1.12		TS	09/09/2011	
233.78	236.83	3.05	0.942	1.233	1.329	1.17		TS	09/09/2011	
236.83	239.88	3.05	0.864	2.045	1.205	1.37		TS	09/09/2011	
239.88	242.93	3.05	1.386	0.842	1.43	1.22		TS	09/09/2011	
242.93	245.97	3.04	1.593	0.863	0.283	0.91		TS	09/09/2011	
245.97	249.02	3.05	0.162	0.568	0.519	0.42		TS	11/09/2011	
249.02	252.07	3.05	0.233	0.204	0.193	0.21		TS	11/09/2011	
252.07	255.12	3.05	0.848	0.159	0.188	0.4		TS	11/09/2011	
255.12	258.17	3.05	1.307	0.42	0.206	0.64		TS	11/09/2011	
258.17	260.3	2.13	0.171	0.17	0.176	0.17		TS	11/09/2011	
260.3	261.21	0.91	0.403	0.347	0.219	0.32		TS	11/09/2011	
261.21	264.26	3.05	0.167	0.186	0.338	0.23		TS	11/09/2011	
264.26	266.4	2.14	0.454	0.34	0.165	0.32		TS	11/09/2011	
266.4	269.44	3.04	0.226	0.715	0.313	0.42		TS	11/09/2011	
269.44	271.58	2.14	0.126	0.083	0.137	0.12		TS	11/09/2011	
271.58	273.41	1.83	0.209	0.151	0.229	0.2		TS	11/09/2011	
273.41	276.45	3.04	0.398	0.16	0.182	0.25		TS	11/09/2011	
276.45	279.5	3.05	0.174	1.546	0.498	0.74		TS	11/09/2011	
279.5	282.85	3.35	0.417	0.439	0.448	0.43		TS	11/09/2011	
282.85	285.6	2.75	0.194	0.442	0.365	0.33		TS	11/09/2011	
285.6	287.73	2.13	0.461	0.171	0.257	0.3		TS	11/09/2011	
287.73	290.78	3.05	0.342	0.233	0.144	0.24		TS	11/09/2011	
290.78	293.22	2.44	0.183	0.294	0.132	0.2		TS	11/09/2011	
293.22	295.96	2.74	0.179	0.219	0.447	0.28		TS	11/09/2011	
295.96	297.79	1.83	0.188	0.547	0.307	0.35		TS	11/09/2011	
297.79	300.84	3.05	0.167	0.138	0.239	0.18		TS	11/09/2011	
300.84	303.89	3.05	0.236	0.215	0.28	0.24		TS	11/09/2011	



## Data Logger Print Logs ~ Mag Susceptibility

Hole ID: **ELD11-03**

From (m)	To (m)	Interval Length	Reading 1	Reading 2	Reading 3	Avg. Reading	Unit Code	Read By	Read Date	Comments
303.89	306.93	3.04	0.394	0.52	0.242	0.39		TS	11/09/2011	
306.93	309.98	3.05	0.396	1.838	0.994	1.08		TS	11/09/2011	
309.98	313.03	3.05	0.462	0.474	0.274	0.4		TS	11/09/2011	
313.03	316.08	3.05	0.854	1.078	0.432	0.79		TS	11/09/2011	
316.08	319.13	3.05	0.253	0.097	0.653	0.33		TS	11/09/2011	
319.13	322.17	3.04	0.353	0.219	0.309	0.29		TS	11/09/2011	
322.17	325.22	3.05	0.274	0.149	0.181	0.2		TS	11/09/2011	
325.22	328.27	3.05	0.323	0.319	0.553	0.4		TS	11/09/2011	
328.27	331.32	3.05	0.245	0.22	1.41	0.62		TS	11/09/2011	
331.32	334.37	3.05	0.244	0.16	0.589	0.33		TS	11/09/2011	
334.37	337.41	3.04	0.218	0.28	0.193	0.23		TS	11/09/2011	
337.41	340.46	3.05	0.185	0.084	0.278	0.18		TS	11/09/2011	
340.46	343.57	3.11	0.23	0.203	0.432	0.29		TS	11/09/2011	
343.57	346.56	2.99	0.191	1.033	0.39	0.54		TS	11/09/2011	
346.56	349.61	3.05	0.423	0.173	0.146	0.25		TS	11/09/2011	
349.61	352.65	3.04	0.073	0.302	0.17	0.18		TS	11/09/2011	
352.65	355.7	3.05	0.505	0.079	0.254	0.28		TS	11/09/2011	
355.7	358.14	2.44	0.168	0.096	0.086	0.12		TS	11/09/2011	
358.14	360.58	2.44	0.234	0.681	0.107	0.34		TS	11/09/2011	
360.58	361.8	1.22	0.025	0.125	0.198	0.12		TS	11/09/2011	
361.8	364.85	3.05	0.363	0.168	0.167	0.23		TS	11/09/2011	
364.85	367.89	3.04	0.309	0.755	0.301	0.46		TS	11/09/2011	E.O.H.



# Data Logger Print Logs ~ DH Samples

**DataSet:** ELD\_GF

**Hole ID:** ELD11-03

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
3.05	5.35	M488253	HC	TS	<input type="checkbox"/>	
5.35	8.23	M488254	HC	TS	<input type="checkbox"/>	
8.23	11	M488255	HC	TS	<input type="checkbox"/>	
11	14	M488256	HC	TS	<input type="checkbox"/>	
14	17	M488257	HC	TS	<input type="checkbox"/>	
17	19.5	M488258	HC	TS	<input type="checkbox"/>	
19.5	21.27	M488259	HC	TS	<input type="checkbox"/>	
21.27	24.66	M488261	HC	TS	<input type="checkbox"/>	
24.66	27.8	M488262	HC	TS	<input type="checkbox"/>	
27.8	29.26	M488263	HC	TS	<input type="checkbox"/>	
29.26	32	M488264	HC	TS	<input type="checkbox"/>	
32	34.75	M488265	HC	TS	<input type="checkbox"/>	
34.75	37.05	M488266	HC	TS	<input type="checkbox"/>	
37.05	40	M488267	HC	TS	<input type="checkbox"/>	
40	43	M488268	HC	TS	<input type="checkbox"/>	
43	46	M488269	HC	TS	<input type="checkbox"/>	
46	49	M488271	HC	TS	<input type="checkbox"/>	
49	52	M488272	HC	TS	<input type="checkbox"/>	
52	55	M488273	HC	TS	<input type="checkbox"/>	
55	57.63	M488274	HC	TS	<input type="checkbox"/>	
57.63	60	M488275	HC	TS	<input type="checkbox"/>	
60	63	M488276	HC	TS	<input type="checkbox"/>	
63	66	M488277	HC	TS	<input type="checkbox"/>	
66	69	M488278	HC	TS	<input type="checkbox"/>	
69	71.58	M488279	HC	TS	<input type="checkbox"/>	
71.58	74	M488281	HC	TS	<input type="checkbox"/>	
74	76.66	M488282	HC	TS	<input type="checkbox"/>	bxes were mixed up during stacking prior to cutting; mix up was not caught prior to cutting; samples M488282 and M488285 were mixed together; core was pieced back together as best as possible and put back in correct bag; some smaller pieces remained mixed
76.66	79	M488283	HC	TS	<input type="checkbox"/>	
79	82	M488284	HC	TS	<input type="checkbox"/>	
82	85	M488285	HC	TS	<input type="checkbox"/>	bxes were mixed up during stacking prior to cutting; mix up was not caught prior to cutting; samples M488282 and M488285 were mixed together; core was pieced back together as best as possible and put back in correct bag; some smaller pieces remained mixed
85	88	M488286	HC	TS	<input type="checkbox"/>	
88	91	M488287	HC	TS	<input type="checkbox"/>	



# Data Logger Print Logs ~ DH Samples

**Hole ID:** **ELD11-03**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
91	94	M488288	HC	TS	<input type="checkbox"/>	
94	96.5	M488289	HC	TS	<input type="checkbox"/>	
96.5	98.36	M488291	HC	TS	<input type="checkbox"/>	
98.36	101	M488292	HC	TS	<input type="checkbox"/>	core loss
101	104	M488293	HC	TS	<input type="checkbox"/>	
104	107	M488294	HC	TS	<input type="checkbox"/>	
107	110	M488295	HC	TS	<input type="checkbox"/>	
110	112.56	M488296	HC	TS	<input type="checkbox"/>	
112.56	115	M488297	HC	TS	<input type="checkbox"/>	
115	118	M488298	HC	TS	<input type="checkbox"/>	
118	120.43	M488299	HC	TS	<input type="checkbox"/>	
120.43	122	M488301	HC	TS	<input type="checkbox"/>	
122	123.3	M488302	HC	TS	<input type="checkbox"/>	
123.3	126	M488303	HC	TS	<input type="checkbox"/>	
126	129	M488304	HC	TS	<input type="checkbox"/>	
129	132	M488305	HC	TS	<input type="checkbox"/>	
132	135	M488306	HC	TS	<input type="checkbox"/>	
135	138	M488307	HC	TS	<input type="checkbox"/>	
138	141	M488308	HC	TS	<input type="checkbox"/>	
141	144	M488309	HC	TS	<input type="checkbox"/>	
144	147	M488311	HC	TS	<input type="checkbox"/>	
147	150	M488312	HC	TS	<input type="checkbox"/>	
150	152	M488313	HC	TS	<input type="checkbox"/>	
152	154.7	M488314	HC	TS	<input type="checkbox"/>	
154.7	157.23	M488315	HC	TS	<input type="checkbox"/>	
157.23	160	M488316	HC	TS	<input type="checkbox"/>	
160	163	M488317	HC	TS	<input type="checkbox"/>	
163	166	M488318	HC	TS	<input type="checkbox"/>	
166	169	M488319	HC	TS	<input type="checkbox"/>	
169	172	M488321	HC	TS	<input type="checkbox"/>	
172	175	M488322	HC	TS	<input type="checkbox"/>	
175	178	M488323	HC	TS	<input type="checkbox"/>	
178	181	M488324	HC	TS	<input type="checkbox"/>	
181	184	M488325	HC	TS	<input type="checkbox"/>	
184	187	M488326	HC	TS	<input type="checkbox"/>	
187	190	M488327	HC	TS	<input type="checkbox"/>	
190	193	M488328	HC	TS	<input type="checkbox"/>	
193	196	M488329	HC	TS	<input type="checkbox"/>	
196	197.95	M488331	HC	TS	<input type="checkbox"/>	



## Data Logger Print Logs ~ DH Samples

**Hole ID:** **ELD11-03**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
197.95	201	M488332	HC	TS	<input type="checkbox"/>	
201	204	M488333	HC	TS	<input type="checkbox"/>	
204	207	M488334	HC	TS	<input type="checkbox"/>	
207	210	M488335	HC	TS	<input type="checkbox"/>	
210	213	M488336	HC	TS	<input type="checkbox"/>	
213	216	M488337	HC	TS	<input type="checkbox"/>	
216	219	M488338	HC	TS	<input type="checkbox"/>	
219	221	M488339	HC	TS	<input type="checkbox"/>	
221	223.26	M488341	HC	TS	<input type="checkbox"/>	
223.26	226	M488342	HC	TS	<input type="checkbox"/>	
226	229	M488343	HC	TS	<input type="checkbox"/>	
229	232	M488344	HC	TS	<input type="checkbox"/>	
232	235	M488345	HC	TS	<input type="checkbox"/>	
235	238	M488346	HC	TS	<input type="checkbox"/>	
238	240.5	M488347	HC	TS	<input type="checkbox"/>	
240.5	243.85	M488348	HC	TS	<input type="checkbox"/>	
243.85	246	M488349	HC	TS	<input type="checkbox"/>	
246	249	M488351	HC	TS	<input type="checkbox"/>	
249	252	M488352	HC	TS	<input type="checkbox"/>	
252	255	M488353	HC	TS	<input type="checkbox"/>	
255	258	M488354	HC	TS	<input type="checkbox"/>	
258	261	M488355	HC	TS	<input type="checkbox"/>	
261	264	M488356	HC	TS	<input type="checkbox"/>	
264	267	M488357	HC	TS	<input type="checkbox"/>	
267	270	M488358	HC	TS	<input type="checkbox"/>	
270	273	M488359	HC	TS	<input type="checkbox"/>	
273	276	M488361	HC	TS	<input type="checkbox"/>	
276	279	M488362	HC	TS	<input type="checkbox"/>	
279	282	M488363	HC	TS	<input type="checkbox"/>	
282	285	M488364	HC	TS	<input type="checkbox"/>	
285	288	M488365	HC	TS	<input type="checkbox"/>	
288	291	M488366	HC	TS	<input type="checkbox"/>	
291	294	M488367	HC	TS	<input type="checkbox"/>	
294	297	M488368	HC	TS	<input type="checkbox"/>	
297	300	M488369	HC	TS	<input type="checkbox"/>	
300	303	M488371	HC	TS	<input type="checkbox"/>	
303	306	M488372	HC	TS	<input type="checkbox"/>	
306	309	M488373	HC	TS	<input type="checkbox"/>	
309	312	M488374	HC	TS	<input type="checkbox"/>	



## Data Logger Print Logs ~ DH Samples

**Hole ID:** **ELD11-03**

From (m)	To (m)	Sample ID	Type	Sampled By	Has Duplicate	Comments
312	315	M488375	HC	TS	<input type="checkbox"/>	
315	318	M488376	HC	TS	<input type="checkbox"/>	
318	321	M488377	HC	TS	<input type="checkbox"/>	
321	323.5	M488378	HC	TS	<input type="checkbox"/>	
323.5	325.5	M488379	HC	TS	<input type="checkbox"/>	
325.5	327.52	M488381	HC	TS	<input type="checkbox"/>	
327.52	330	M488382	HC	TS	<input type="checkbox"/>	
330	332.42	M488383	HC	TS	<input type="checkbox"/>	
332.42	335.61	M488384	HC	TS	<input type="checkbox"/>	
335.61	337.73	M488385	HC	TS	<input type="checkbox"/>	
337.73	338.87	M488386	HC	TS	<input type="checkbox"/>	
338.87	340.93	M488387	HC	TS	<input type="checkbox"/>	
340.93	343	M488388	HC	TS	<input type="checkbox"/>	
343	345.5	M488389	HC	TS	<input type="checkbox"/>	
345.5	347.5	M488391	HC	TS	<input type="checkbox"/>	
347.5	349.78	M488392	HC	TS	<input type="checkbox"/>	
349.78	351.51	M488393	HC	TS	<input type="checkbox"/>	
351.51	352.93	M488394	HC	TS	<input type="checkbox"/>	
352.93	353.93	M488395	HC	TS	<input type="checkbox"/>	
353.93	356	M488396	HC	TS	<input type="checkbox"/>	
356	358.1	M488397	HC	TS	<input type="checkbox"/>	
358.1	360.5	M488398	HC	TS	<input type="checkbox"/>	
360.5	362.98	M488399	HC	TS	<input type="checkbox"/>	
362.98	365.5	M488401	HC	TS	<input type="checkbox"/>	
365.5	367.89	M488402	HC	TS	<input type="checkbox"/>	EOH





## Data Logger Print Logs ~ Standards / Blanks

**DataSet:** ELD\_GF

**Hole ID:** ELD11-03





Sample ID	Standard ID	Comments
M488400	FB	
M488390	CDN-CGS-23	
M488380	FB	
M488370	CDN-GS-P4A	
M488360	FB	
M488350	CDN-CGS-23	
M488340	FB	
M488330	CDN-GS-P4A	
M488320	FB	
M488310	CDN-CGS-23	
M488300	FB	
M488290	CDN-GS-P4A	
M488280	FB	
M488270	CDN-CGS-23	
M488260	FB	

## **Appendix 8: Strip Log**


# STRIP LOG: Legend

Easting 508234.0 Northing 5651258.0 RL 2268.0 Azimuth 360.0 Dip -70.0 Depth 400.0

Local Lithology Code





PAT	LABEL	DESCRIPTION
	BX	Breccia
	IMDQ	Medium Grained Quartz Diorite
	OB	Overburden
	UA	Altered_Undifferentiated

Magnetic Susceptibility (Ave\_Reading)




LINE 

Alteration Intensity




FeCarb

PAT	LABEL	DESCRIPTION
	W	Weak
	M	Moderate
	S	Strong
	VS	Very Strong




Sil

PAT	LABEL	DESCRIPTION
	W	Weak
	M	Moderate
	S	Strong

Chlor

PAT	LABEL	DESCRIPTION
	W	Weak
	M	Moderate
	S	Strong






Phyl

PAT	LABEL	DESCRIPTION
	W	Weak
	M	Moderate
	S	Strong

Assay Values





Au\_ppm

VALUES

	1
	0.5
	0.25
	0.1
	





As\_ppm

VALUES

	5000
	1000
	500
	





Fe\_pct

VALUES

	6
	4
	2
	

Zn\_ppm

VALUES

	1000
	500
	100
	

Gold Fields  
Eldorado  
Legend

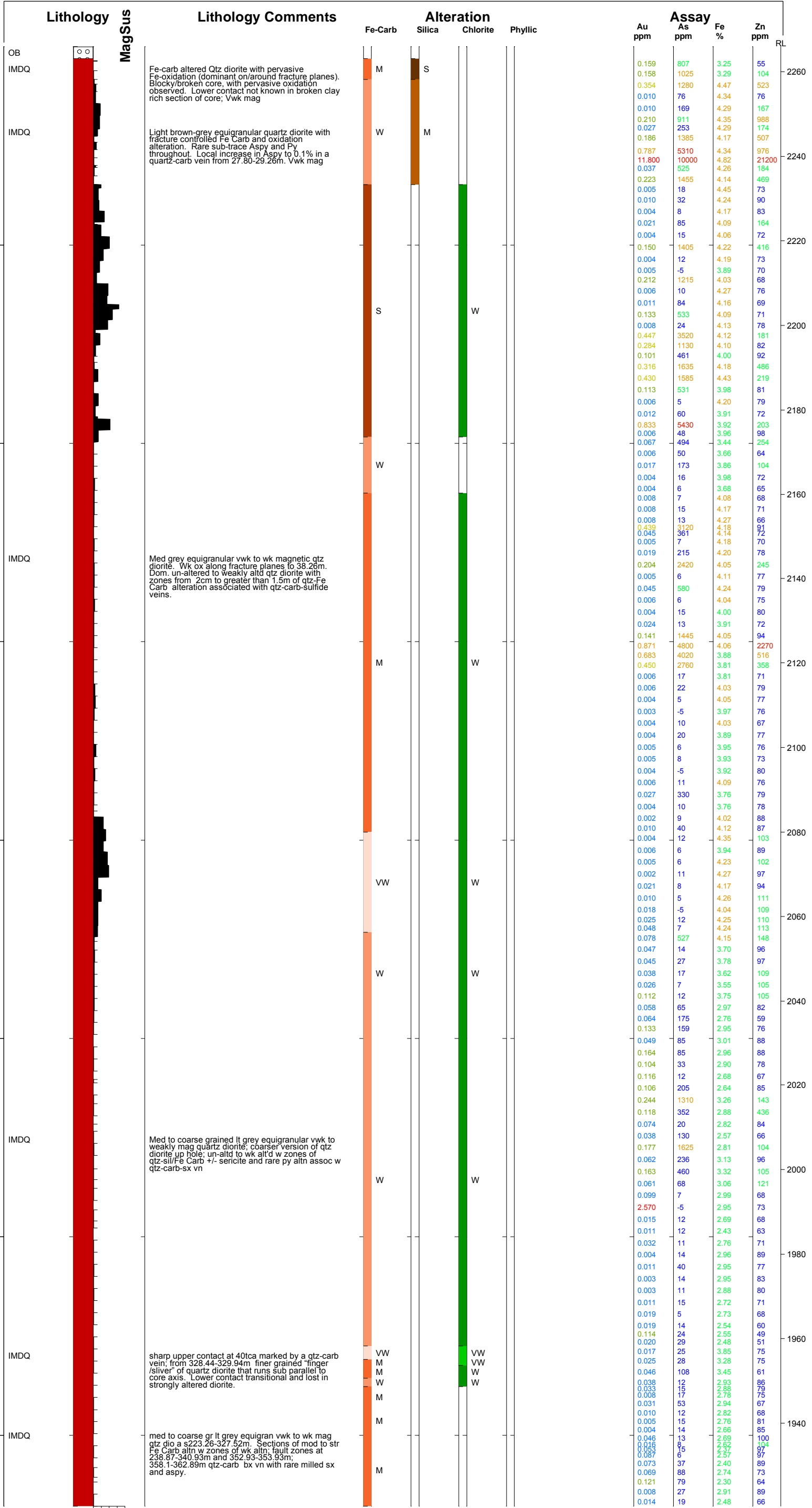


# STRIP LOG: ELD11-03

Easting 508512.0 Northing 5651702.0 RL 2266.0 Azimuth 310.0 Dip -70.0 Depth 367.9



Eldorado  
Scale 1:1000



## **Appendix 9: Drill Section**



**Appendix 10:  
Drill Core Assay Results (pdf)**



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: GFE EXPLORATION CORPORATION  
 400- 1155 ROBSON ST.  
 VANCOUVER BC V6E 1B5

Page: 1  
 Finalized Date: 8- NOV- 2011  
 Account: ELGFEC

**CERTIFICATE VA11196290**

Project: Eldorado  
 P.O. No.: ELD- 2011- 016c  
 This report is for 150 Drill Core samples submitted to our lab in Vancouver, BC,  
 Canada on 26- SEP- 2011.

The following have access to data associated with this certificate:

ELEANOR BLACK  
 TWILA SKINNER

MATT ECKFELDT  
 ARNAND VAN HEERDEN

ROSS SHERLOCK

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 23	Pulp Login - Rcvd with Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

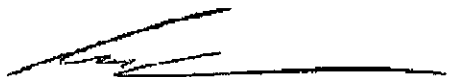
**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: GFE EXPLORATION CORPORATION  
 ATTN: ELEANOR BLACK  
 400- 1155 ROBSON ST.  
 VANCOUVER BC V6E 1B5

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:



Colin Ramshaw, Vancouver Laboratory Manager





ALS Canada Ltd.  
 2103 Dollarton Hwy  
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To: GFE EXPLORATION CORPORATION  
 400- 1155 ROBSON ST.  
 VANCOUVER BC V6E 1B5

Page: 2 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 8- NOV- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11196290**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	Au- GRA21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %
		0.02	0.001	0.05	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01
M488253		3.44	0.159		<0.5	5.85	807	230	0.6	<2	1.84	<0.5	11	26	52	3.25
M488254		3.14	0.158		<0.5	6.51	1025	250	0.7	2	1.56	<0.5	10	11	26	3.29
M488255		3.56	0.354		0.8	8.22	1280	330	0.9	<2	3.38	3.4	14	9	71	4.47
M488256		7.62	0.010		<0.5	8.35	76	450	0.9	<2	4.38	<0.5	13	18	47	4.34
M488257		5.96	0.010		<0.5	8.28	169	430	0.9	<2	4.08	<0.5	14	10	32	4.29
M488258		5.74	0.210		<0.5	8.09	911	470	0.9	3	4.17	10.4	13	11	57	4.35
M488259		3.78	0.027		<0.5	7.96	253	420	0.9	<2	3.92	1.0	14	12	36	4.29
M488260		0.72	0.005		<0.5	0.10	8	20	<0.5	<2	19.9	<0.5	2	<1	2	0.47
M488261		7.08	0.186		0.7	7.88	1385	350	1.0	<2	3.70	5.8	12	12	46	4.17
M488262		5.82	0.787		7.4	8.14	5310	390	0.9	<2	3.08	12.8	11	12	110	4.34
M488263		1.56	>10.0	11.80	43.3	3.01	>10000	90	<0.5	<2	5.01	217	6	6	426	4.82
M488264		7.38	0.037		<0.5	8.26	525	420	0.9	2	4.21	0.5	13	17	29	4.26
M488265		4.52	0.223		<0.5	7.53	1455	330	0.9	<2	4.16	4.8	13	20	46	4.14
M488266		6.30	0.005		<0.5	8.32	18	430	0.9	3	4.16	<0.5	13	13	32	4.45
M488267		6.64	0.010		<0.5	8.24	32	420	1.0	<2	3.71	<0.5	14	13	44	4.24
M488268		6.50	0.004		<0.5	8.20	8	430	0.9	<2	3.96	<0.5	13	15	26	4.17
M488269		6.88	0.021		<0.5	8.17	85	430	0.9	<2	4.10	1.0	14	27	32	4.09
M488270		0.18	0.256		1.6	7.48	30	1460	1.1	<2	2.02	0.8	15	98	1730	4.33
M488271		6.72	0.004		<0.5	8.22	15	380	0.9	<2	4.26	<0.5	14	23	26	4.06
M488272		7.68	0.150		0.7	8.20	1405	420	0.9	<2	4.17	3.4	13	19	23	4.22
M488273		6.88	0.004		<0.5	8.35	12	440	0.9	<2	4.20	<0.5	14	15	35	4.19
M488274		6.64	0.005		<0.5	8.25	<5	420	0.9	<2	3.90	<0.5	12	13	31	3.89
M488275		5.16	0.212		<0.5	8.25	1215	370	0.9	<2	3.98	<0.5	13	12	39	4.03
M488276		6.72	0.006		<0.5	8.43	10	470	0.9	<2	4.08	<0.5	14	13	36	4.27
M488277		7.76	0.011		<0.5	8.30	84	460	0.9	<2	4.05	<0.5	12	14	30	4.16
M488278		7.96	0.133		<0.5	7.92	533	430	0.9	<2	4.07	<0.5	12	12	25	4.09
M488279		6.86	0.008		<0.5	8.04	24	440	0.9	<2	3.98	<0.5	13	14	32	4.13
M488280		1.00	0.003		<0.5	0.08	20	60	<0.5	<2	20.2	<0.5	2	<1	1	0.46
M488281		5.52	0.447		<0.5	8.19	3520	390	0.9	<2	3.83	1.4	12	13	28	4.12
M488282		7.20	0.284		<0.5	8.27	1130	410	0.9	<2	3.74	<0.5	13	13	35	4.10
M488283		3.86	0.101		<0.5	7.99	461	440	0.9	<2	3.51	<0.5	12	12	29	4.00
M488284		8.22	0.316		0.9	7.81	1635	400	0.9	<2	3.91	4.6	13	11	39	4.18
M488285		4.88	0.430		1.4	8.04	1585	360	0.8	<2	4.24	1.5	12	12	29	4.43
M488286		7.82	0.113		<0.5	7.89	531	350	0.9	<2	3.91	<0.5	13	11	35	3.98
M488287		7.60	0.006		<0.5	8.39	5	430	0.9	<2	4.09	<0.5	12	11	29	4.20
M488288		5.58	0.012		<0.5	8.19	60	460	0.9	<2	3.74	<0.5	12	14	33	3.91
M488289		6.38	0.833		1.8	7.30	5430	410	0.8	<2	3.52	2.8	10	13	19	3.92
M488290		0.16	0.431		<0.5	5.91	66	530	0.7	<2	2.45	<0.5	8	42	54	3.60
M488291		4.46	0.006		<0.5	8.11	48	480	0.9	<2	3.83	<0.5	13	19	19	3.96
M488292		3.56	0.067		<0.5	6.77	494	330	0.8	<2	3.58	1.8	10	13	17	3.44



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Page: 2 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 8- NOV- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11196290**

Sample Description	Method Analyte Units LOR	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
		Ga ppm 10	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sc ppm 1	Sr ppm 1	Th ppm 20
M488253		10	0.37	10	0.65	479	<1	0.03	9	670	6	0.16	62	8	604	<20
M488254		20	0.27	10	0.37	504	2	0.03	3	940	14	0.12	77	7	941	<20
M488255		20	1.35	<10	0.77	744	1	1.47	6	1030	679	0.11	520	9	412	<20
M488256		20	1.04	<10	1.22	665	1	2.99	6	1020	10	0.10	18	9	681	<20
M488257		20	1.09	<10	1.15	678	1	2.73	3	1020	12	0.07	76	8	647	<20
M488258		20	1.16	<10	1.21	648	1	2.84	7	1010	183	0.07	224	8	658	<20
M488259		20	1.05	<10	1.15	617	1	2.83	4	1000	71	0.15	127	8	649	<20
M488260		<10	0.02	<10	12.25	215	1	0.02	<1	160	3	0.01	<5	<1	47	<20
M488261		20	1.30	<10	1.13	621	1	2.00	5	940	339	0.46	290	8	492	<20
M488262		20	1.73	10	1.03	769	1	1.67	5	990	348	0.64	710	8	464	<20
M488263		10	1.20	<10	2.21	5860	<1	0.03	4	290	2390	3.84	7920	3	112	<20
M488264		20	1.16	<10	1.39	694	<1	2.79	8	1030	11	0.14	78	8	669	<20
M488265		20	0.97	<10	1.32	674	<1	2.15	7	970	190	0.38	195	7	562	<20
M488266		20	1.08	<10	1.47	653	1	3.11	4	1010	6	0.08	12	8	682	<20
M488267		20	1.00	<10	1.13	676	1	2.79	5	1030	15	0.10	28	8	641	<20
M488268		20	1.02	<10	1.37	690	1	2.98	7	1010	9	0.05	17	8	664	<20
M488269		20	1.11	10	1.45	703	1	2.93	11	950	24	0.07	30	9	662	<20
M488270		20	3.41	30	0.95	368	160	0.92	16	770	28	1.80	7	11	223	<20
M488271		20	0.95	10	1.46	676	<1	2.64	9	970	6	0.10	24	9	610	<20
M488272		20	1.23	10	1.43	694	1	2.71	6	970	173	0.41	141	8	620	<20
M488273		20	1.08	<10	1.41	640	1	3.12	7	1020	9	0.12	7	8	694	<20
M488274		20	1.07	10	1.28	590	1	3.06	3	1000	7	0.10	12	7	676	<20
M488275		20	1.44	10	1.33	646	1	2.34	6	990	10	0.76	165	8	543	<20
M488276		20	1.09	10	1.48	650	<1	3.23	4	1030	9	0.09	<5	8	681	<20
M488277		20	1.14	10	1.41	628	1	3.03	5	980	7	0.13	<5	8	668	<20
M488278		20	1.25	<10	1.29	680	2	2.77	4	980	8	0.30	11	7	617	<20
M488279		20	1.15	<10	1.36	684	1	3.05	6	1000	9	0.06	8	7	664	<20
M488280		<10	0.02	<10	12.45	211	1	0.01	<1	170	<2	0.01	<5	<1	50	<20
M488281		20	1.57	<10	1.39	854	1	2.38	6	980	30	0.82	48	8	549	<20
M488282		20	1.29	<10	1.33	651	1	2.66	7	990	12	0.56	32	7	616	<20
M488283		20	1.19	<10	1.22	633	1	2.83	7	960	13	0.15	28	7	609	<20
M488284		20	1.15	<10	1.32	684	1	2.57	3	980	498	0.39	475	7	589	<20
M488285		20	1.17	10	1.51	738	1	2.18	5	940	259	1.03	240	8	536	<20
M488286		20	1.18	<10	1.29	667	2	2.05	3	970	6	0.36	23	7	531	<20
M488287		20	1.16	<10	1.34	683	1	2.88	5	1030	10	0.06	7	8	670	<20
M488288		20	1.08	10	1.17	622	2	2.75	7	970	6	0.12	17	7	661	<20
M488289		20	1.35	<10	1.09	659	1	2.10	6	870	2050	1.02	2030	6	506	<20
M488290		10	0.95	10	0.88	561	11	2.04	39	790	10	0.12	5	11	251	<20
M488291		20	1.31	10	1.28	682	2	2.95	12	980	16	0.07	14	8	687	<20
M488292		20	1.11	10	1.33	727	2	1.52	11	780	51	0.28	48	6	430	<20



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Page: 2 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 8- NOV- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11196290**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Zn- OG62
		Tl % 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Zn % 0.001
M488253		0.31	<10	<10	89	20	55	
M488254		0.34	<10	<10	99	10	104	
M488255		0.44	<10	<10	135	<10	523	
M488256		0.45	<10	<10	132	<10	76	
M488257		0.44	<10	<10	133	<10	167	
M488258		0.42	<10	<10	130	<10	988	
M488259		0.43	<10	<10	131	<10	174	
M488260		<0.01	<10	<10	3	<10	20	
M488261		0.39	<10	<10	119	<10	507	
M488262		0.38	<10	<10	118	10	976	
M488263		0.11	<10	<10	38	80	>10000	2.12
M488264		0.41	<10	<10	123	<10	184	
M488265		0.39	<10	<10	119	<10	469	
M488266		0.44	<10	<10	132	<10	73	
M488267		0.42	<10	<10	127	<10	90	
M488268		0.42	<10	<10	127	<10	83	
M488269		0.42	<10	<10	128	<10	164	
M488270		0.23	<10	<10	103	20	70	
M488271		0.42	<10	<10	131	<10	72	
M488272		0.39	<10	<10	119	<10	416	
M488273		0.41	<10	<10	123	<10	73	
M488274		0.41	<10	10	118	<10	70	
M488275		0.40	<10	<10	117	10	68	
M488276		0.42	<10	<10	122	<10	76	
M488277		0.41	<10	<10	117	<10	69	
M488278		0.40	<10	<10	117	<10	71	
M488279		0.41	<10	<10	119	<10	78	
M488280		<0.01	<10	<10	2	<10	17	
M488281		0.40	<10	10	121	<10	181	
M488282		0.40	10	<10	118	<10	82	
M488283		0.39	<10	10	115	<10	92	
M488284		0.39	<10	<10	116	<10	486	
M488285		0.37	<10	<10	109	<10	219	
M488286		0.39	<10	<10	117	<10	81	
M488287		0.40	<10	10	125	<10	79	
M488288		0.39	<10	<10	117	<10	72	
M488289		0.35	<10	<10	104	10	203	
M488290		0.28	<10	<10	105	<10	68	
M488291		0.40	<10	<10	116	<10	98	
M488292		0.33	<10	<10	98	<10	254	



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Page: 3 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 8- NOV- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11196290**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	Au- GRA21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %
M488293		6.08	0.006		<0.5	7.73	50	470	0.9	<2	3.57	<0.5	12	13	24	3.66
M488294		6.40	0.017		<0.5	7.83	173	510	0.9	<2	3.13	<0.5	15	12	41	3.86
M488295		7.18	0.004		<0.5	7.72	16	530	0.9	<2	3.47	<0.5	14	13	24	3.98
M488296		5.44	0.004		<0.5	7.78	6	480	0.9	<2	3.45	<0.5	15	14	31	3.68
M488297		6.42	0.008		<0.5	8.26	7	500	0.9	<2	3.30	<0.5	13	18	24	4.08
M488298		6.90	0.008		<0.5	8.16	15	490	0.9	<2	4.22	<0.5	14	13	22	4.17
M488299		5.80	0.008		<0.5	8.48	13	480	0.9	<2	3.64	<0.5	13	14	61	4.27
M488300		1.08	0.001		<0.5	0.23	<5	40	<0.5	2	20.3	<0.5	2	2	3	0.54
M488301		3.30	0.439		<0.5	7.83	3120	260	0.8	<2	3.62	<0.5	15	14	43	4.18
M488302		3.08	0.045		<0.5	7.84	361	270	0.8	<2	3.84	<0.5	17	14	74	4.14
M488303		6.92	0.005		<0.5	8.28	7	470	0.9	<2	3.94	<0.5	13	17	47	4.18
M488304		7.54	0.019		<0.5	8.02	215	450	1.0	<2	3.75	<0.5	15	15	33	4.20
M488305		6.54	0.204		0.9	8.01	2420	400	0.9	<2	3.91	2.0	13	13	47	4.05
M488306		8.30	0.005		<0.5	7.91	6	460	0.9	<2	3.75	<0.5	14	15	49	4.11
M488307		7.52	0.045		<0.5	8.28	580	450	0.9	<2	3.93	<0.5	13	13	13	4.24
M488308		8.02	0.006		<0.5	7.88	6	470	0.9	<2	3.76	<0.5	14	16	19	4.04
M488309		7.62	0.004		<0.5	8.38	15	450	0.9	<2	3.78	<0.5	14	16	40	4.00
M488310		0.16	0.222		1.6	7.20	26	1330	1.1	2	2.01	0.7	17	98	1805	4.30
M488311		6.78	0.024		0.5	7.93	13	420	0.8	<2	3.26	<0.5	13	12	117	3.91
M488312		6.98	0.141		0.5	7.97	1445	410	1.0	<2	3.55	0.5	15	13	35	4.05
M488313		5.16	0.871		13.3	7.86	4800	420	0.8	<2	3.28	29.6	11	11	153	4.06
M488314		6.60	0.683		1.2	7.74	4020	410	0.9	<2	3.43	5.0	13	12	36	3.88
M488315		6.42	0.450		0.8	7.17	2760	260	0.8	<2	3.66	3.5	12	12	28	3.81
M488316		6.60	0.006		<0.5	7.48	17	430	0.9	<2	3.67	<0.5	12	14	64	3.81
M488317		7.50	0.006		<0.5	8.13	22	460	0.9	<2	3.88	<0.5	13	15	30	4.03
M488318		7.60	0.004		<0.5	8.05	5	450	0.8	<2	3.96	<0.5	12	19	24	4.05
M488319		6.70	0.003		<0.5	7.78	<5	430	0.9	<2	3.86	<0.5	14	13	25	3.97
M488320		0.50	0.001		<0.5	0.09	<5	10	<0.5	<2	19.6	<0.5	2	<1	2	0.47
M488321		6.90	0.004		<0.5	7.83	10	430	0.9	<2	3.76	<0.5	14	11	45	4.03
M488322		6.60	0.004		<0.5	7.59	20	540	0.9	<2	3.83	<0.5	12	11	25	3.89
M488323		6.44	0.005		<0.5	7.72	6	510	0.9	<2	4.13	<0.5	11	11	20	3.95
M488324		6.76	0.005		<0.5	7.78	8	460	0.9	<2	3.72	<0.5	11	12	23	3.93
M488325		6.58	0.004		<0.5	7.95	<5	450	0.9	<2	3.58	<0.5	13	11	23	3.92
M488326		7.76	0.006		<0.5	8.01	11	450	0.9	<2	3.85	<0.5	12	14	23	4.09
M488327		7.56	0.027		<0.5	7.36	330	320	0.9	<2	4.38	<0.5	10	13	27	3.76
M488328		6.60	0.004		<0.5	7.75	10	490	0.9	<2	3.59	<0.5	11	12	20	3.76
M488329		7.26	0.002		<0.5	7.81	9	450	0.9	<2	4.25	<0.5	11	10	18	4.02
M488330		0.16	0.441		<0.5	5.49	63	500	0.7	<2	2.30	<0.5	7	43	47	3.41
M488331		4.52	0.010		<0.5	8.32	40	470	0.9	<2	4.11	<0.5	12	11	24	4.12
M488332		7.12	0.004		<0.5	8.51	12	500	0.9	<2	4.18	<0.5	12	11	20	4.35



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Page: 3 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 8- NOV- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11196290**

Sample Description	Method Analyte Units LOR	ME- ICP61 Ga ppm 10	ME- ICP61 K % 0.01	ME- ICP61 La ppm 10	ME- ICP61 Mg % 0.01	ME- ICP61 Mn ppm 5	ME- ICP61 Mo ppm 1	ME- ICP61 Na % 0.01	ME- ICP61 Ni ppm 1	ME- ICP61 P ppm 10	ME- ICP61 Pb ppm 2	ME- ICP61 S % 0.01	ME- ICP61 Sb ppm 5	ME- ICP61 Sc ppm 1	ME- ICP61 Sr ppm 1	ME- ICP61 Th ppm 20
M488293		20	1.01	10	1.24	595	1	2.72	8	960	9	0.14	11	7	659	<20
M488294		20	1.07	10	1.18	668	2	2.52	10	940	10	0.22	15	7	639	<20
M488295		20	1.05	10	1.24	648	2	2.80	10	920	10	0.18	11	7	686	<20
M488296		20	0.98	10	1.25	634	2	2.78	10	900	9	0.11	9	7	667	<20
M488297		20	1.10	10	1.20	628	1	3.04	10	960	11	0.12	5	8	697	<20
M488298		20	1.10	10	1.39	724	1	2.98	11	950	10	0.22	11	8	695	<20
M488299		20	1.13	10	1.24	651	2	3.10	12	1060	13	0.21	8	8	753	<20
M488300		<10	0.04	<10	12.65	222	<1	0.06	6	180	<2	<0.01	<5	<1	58	<20
M488301		20	1.37	10	1.51	967	2	0.99	10	910	10	1.15	23	8	324	<20
M488302		20	0.81	10	1.45	744	2	1.31	11	910	8	0.54	13	8	426	<20
M488303		20	1.15	10	1.32	653	1	3.14	10	990	8	0.12	<5	8	727	<20
M488304		20	1.24	10	1.36	716	1	2.94	11	950	10	0.20	6	8	658	<20
M488305		20	1.37	10	1.47	1125	2	2.33	11	930	129	0.61	150	8	539	<20
M488306		20	1.14	10	1.40	644	2	3.09	10	980	9	0.13	<5	8	689	<20
M488307		20	1.23	10	1.41	740	1	2.85	9	990	12	0.16	6	8	656	<20
M488308		20	1.18	10	1.39	636	2	3.06	12	960	11	0.03	<5	8	690	<20
M488309		20	1.05	10	1.34	665	2	3.09	12	1010	9	0.08	7	8	708	<20
M488310		10	3.69	20	0.96	357	160	0.94	21	740	27	1.82	8	11	221	<20
M488311		20	1.07	10	1.08	585	2	2.60	8	990	8	0.44	21	7	634	<20
M488312		20	1.30	10	1.23	816	2	2.57	10	970	89	0.34	45	7	616	<20
M488313		20	1.50	10	1.11	889	1	2.25	6	970	1640	0.84	1625	7	533	<20
M488314		20	1.37	10	1.06	768	1	2.52	7	940	67	0.52	83	7	587	<20
M488315		20	1.00	10	1.49	810	2	0.98	9	810	126	0.47	111	7	323	<20
M488316		20	0.93	<10	1.06	627	1	2.90	8	940	10	0.09	6	7	655	<20
M488317		20	1.24	10	1.32	654	2	3.07	7	990	11	0.07	<5	7	680	<20
M488318		20	1.07	10	1.37	707	1	3.11	12	990	9	0.04	5	8	689	<20
M488319		20	1.10	<10	1.31	682	1	2.96	9	980	6	0.08	<5	7	682	<20
M488320		<10	0.03	<10	12.25	200	<1	0.02	3	170	<2	<0.01	<5	<1	42	<20
M488321		20	0.98	<10	1.25	680	2	2.87	9	990	6	0.12	6	7	676	<20
M488322		20	1.03	10	1.26	687	1	2.73	11	930	11	0.17	15	7	731	<20
M488323		20	0.95	10	1.35	759	1	2.95	8	950	11	0.08	6	7	716	<20
M488324		20	0.97	10	1.21	701	1	2.85	8	950	10	0.06	5	7	661	<20
M488325		20	1.13	10	1.26	680	2	2.76	7	990	10	0.07	<5	7	623	<20
M488326		20	1.11	10	1.31	686	1	3.05	9	1020	6	0.05	5	7	697	<20
M488327		20	0.87	10	1.57	753	1	1.69	6	910	5	0.28	9	7	465	<20
M488328		20	1.08	<10	1.08	630	1	3.03	5	1000	8	0.06	6	7	698	<20
M488329		20	1.01	<10	1.30	726	2	3.05	7	1020	7	0.03	<5	7	689	<20
M488330		10	0.91	10	0.83	532	9	1.92	34	760	<2	0.12	<5	10	236	<20
M488331		20	1.09	10	1.31	745	1	3.17	7	1040	8	0.07	7	7	702	<20
M488332		20	1.11	10	1.36	818	1	3.23	3	1080	10	0.01	<5	7	731	<20



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Page: 3 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 8- NOV- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11196290**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Zn- OG62
		Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Zn %
		0.01	10	10	1	10	2	0.001
M488293		0.38	<10	<10	112	<10	64	
M488294		0.39	<10	<10	109	<10	104	
M488295		0.39	<10	10	110	<10	72	
M488296		0.39	<10	<10	109	<10	65	
M488297		0.42	<10	10	120	<10	68	
M488298		0.41	<10	10	118	<10	71	
M488299		0.41	<10	<10	122	<10	66	
M488300		0.01	<10	<10	5	<10	18	
M488301		0.38	<10	<10	119	<10	91	
M488302		0.39	<10	<10	127	<10	72	
M488303		0.42	<10	10	121	<10	70	
M488304		0.44	<10	10	127	<10	78	
M488305		0.38	<10	10	110	<10	245	
M488306		0.44	<10	<10	127	<10	77	
M488307		0.42	<10	<10	124	<10	79	
M488308		0.42	<10	10	124	<10	75	
M488309		0.40	<10	10	116	<10	80	
M488310		0.24	<10	<10	109	10	70	
M488311		0.37	<10	10	107	<10	72	
M488312		0.40	<10	10	118	<10	94	
M488313		0.36	<10	<10	107	10	2270	
M488314		0.38	<10	<10	109	<10	516	
M488315		0.35	<10	<10	101	10	358	
M488316		0.38	<10	10	109	<10	71	
M488317		0.42	<10	10	120	<10	79	
M488318		0.37	<10	10	109	<10	77	
M488319		0.41	<10	10	117	<10	76	
M488320		<0.01	<10	<10	3	<10	13	
M488321		0.38	<10	10	109	<10	67	
M488322		0.38	<10	<10	110	<10	77	
M488323		0.36	<10	10	104	<10	76	
M488324		0.37	<10	10	106	<10	73	
M488325		0.40	<10	<10	112	<10	80	
M488326		0.39	<10	10	117	<10	76	
M488327		0.36	<10	<10	106	<10	79	
M488328		0.39	<10	10	113	<10	78	
M488329		0.38	<10	10	114	<10	88	
M488330		0.27	<10	<10	102	<10	61	
M488331		0.39	<10	10	114	<10	87	
M488332		0.40	<10	<10	118	<10	103	



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Page: 4 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 8- NOV- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11196290**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	Au- GRA21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %
M488333		7.62	0.006	<0.5	8.04	6	460	0.9	<2	3.82	<0.5	11	10	21	3.94	
M488334		6.28	0.005	<0.5	8.04	6	480	0.9	<2	4.03	<0.5	11	12	18	4.23	
M488335		6.68	0.002	<0.5	8.59	11	500	0.9	<2	4.09	<0.5	11	12	22	4.27	
M488336		7.04	0.021	<0.5	8.12	8	540	0.9	<2	4.24	<0.5	11	12	21	4.17	
M488337		6.46	0.010	<0.5	8.22	5	530	0.9	<2	4.25	<0.5	12	12	37	4.26	
M488338		6.74	0.018	<0.5	8.14	<5	510	0.9	<2	4.28	<0.5	12	12	43	4.04	
M488339		4.58	0.025	<0.5	8.53	12	480	0.9	<2	4.10	<0.5	12	13	45	4.25	
M488340		0.54	<0.001	<0.5	0.21	7	40	<0.5	<2	20.5	<0.5	2	1	1	0.48	
M488341		5.26	0.048	<0.5	8.18	7	460	0.9	<2	4.27	<0.5	12	11	73	4.24	
M488342		6.10	0.078	<0.5	8.32	527	480	0.9	<2	3.96	0.5	13	35	77	4.15	
M488343		7.32	0.047	<0.5	7.90	14	550	0.9	<2	3.60	<0.5	12	45	50	3.70	
M488344		6.48	0.045	<0.5	7.95	27	520	0.9	<2	3.60	<0.5	13	42	52	3.78	
M488345		7.14	0.038	<0.5	7.80	17	540	0.9	<2	3.46	<0.5	12	50	62	3.62	
M488346		6.52	0.026	<0.5	7.80	7	570	0.9	<2	3.47	<0.5	12	46	55	3.55	
M488347		6.04	0.112	<0.5	7.89	12	560	0.9	<2	3.59	<0.5	12	48	89	3.75	
M488348		8.16	0.058	<0.5	7.13	65	640	0.9	<2	2.93	<0.5	10	52	45	2.97	
M488349		5.36	0.064	<0.5	6.90	175	660	1.1	<2	3.01	<0.5	8	49	34	2.76	
M488350		0.16	0.244	1.7	7.48	35	1390	1.2	<2	2.14	0.8	15	100	1740	4.38	
M488351		7.08	0.133	<0.5	7.32	159	700	1.1	<2	2.46	<0.5	9	62	62	2.95	
M488352		7.94	0.049	<0.5	7.32	85	680	1.1	<2	2.68	<0.5	10	63	29	3.01	
M488353		6.60	0.164	<0.5	7.73	85	710	1.1	<2	2.51	<0.5	9	62	46	2.96	
M488354		7.24	0.104	<0.5	7.71	33	700	1.1	<2	2.59	<0.5	9	60	41	2.90	
M488355		6.94	0.116	<0.5	7.69	12	660	1.1	<2	2.34	<0.5	9	55	55	2.68	
M488356		7.52	0.106	<0.5	7.57	205	670	1.1	<2	2.62	<0.5	8	55	49	2.64	
M488357		6.22	0.244	<0.5	7.01	1310	640	1.1	<2	3.00	0.7	10	61	69	3.26	
M488358		7.54	0.118	1.3	7.03	352	630	1.1	<2	2.81	2.9	8	61	117	2.88	
M488359		7.36	0.074	<0.5	7.23	20	660	1.1	<2	2.82	<0.5	9	60	40	2.82	
M488360		1.42	0.001	<0.5	0.08	7	20	<0.5	<2	20.4	<0.5	2	1	3	0.44	
M488361		7.50	0.038	<0.5	7.04	130	660	1.1	<2	2.86	<0.5	10	56	50	2.57	
M488362		7.78	0.177	0.9	7.38	1625	700	1.1	<2	2.54	<0.5	15	60	55	2.81	
M488363		7.24	0.062	<0.5	7.76	236	700	1.1	<2	2.75	<0.5	10	63	58	3.13	
M488364		7.48	0.163	0.6	7.30	460	620	1.1	<2	2.72	<0.5	9	65	127	3.32	
M488365		6.28	0.061	<0.5	7.68	68	630	1.1	<2	2.92	0.6	12	69	60	3.06	
M488366		6.40	0.099	<0.5	7.53	7	710	1.0	<2	2.72	<0.5	10	72	39	2.99	
M488367		7.92	2.57	10.6	7.72	<5	760	1.1	<2	2.66	<0.5	10	67	215	2.95	
M488368		7.82	0.015	<0.5	7.34	12	690	1.1	<2	2.57	<0.5	9	59	25	2.69	
M488369		7.26	0.011	<0.5	6.70	12	680	1.0	<2	2.40	<0.5	8	56	22	2.43	
M488370		0.16	0.438	<0.5	5.71	63	510	0.7	<2	2.36	<0.5	7	43	49	3.50	
M488371		7.50	0.032	<0.5	7.67	11	720	1.1	<2	2.40	<0.5	9	64	49	2.76	
M488372		7.46	0.004	<0.5	7.68	14	730	1.1	<2	2.78	<0.5	10	70	26	2.96	



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Page: 4 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 8- NOV- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11196290**

Sample Description	Method Analyte Units LOR	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	
		Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
M488333		20	1.06	<10	1.24	704	1	3.11	7	1000	10	0.01	7	7	709	<20
M488334		20	1.09	<10	1.35	801	1	3.13	6	1050	8	<0.01	5	7	713	<20
M488335		20	1.12	<10	1.36	741	1	3.21	5	1070	11	0.02	<5	8	731	<20
M488336		20	1.08	<10	1.34	767	1	3.25	7	1040	10	0.02	7	7	767	<20
M488337		20	1.05	10	1.33	806	2	3.13	8	1040	9	0.01	<5	7	748	<20
M488338		20	1.10	10	1.24	775	2	3.19	7	1010	11	0.01	7	7	732	<20
M488339		20	1.11	10	1.35	771	2	3.24	9	1050	12	0.01	6	8	728	<20
M488340		<10	0.09	<10	12.85	219	<1	0.03	2	170	<2	<0.01	5	<1	50	<20
M488341		20	1.10	10	1.33	816	2	3.21	5	1090	10	0.01	<5	7	739	<20
M488342		20	1.30	10	1.62	789	2	3.07	17	960	10	0.10	6	8	670	<20
M488343		20	1.25	10	1.52	645	1	3.23	21	830	11	0.01	<5	8	641	<20
M488344		20	1.31	10	1.55	666	2	3.16	21	850	10	0.02	<5	8	638	<20
M488345		20	1.34	10	1.51	650	1	3.15	24	830	7	0.01	<5	8	620	<20
M488346		20	1.44	10	1.43	620	2	3.21	21	790	11	0.01	<5	8	603	<20
M488347		20	1.44	10	1.58	660	2	3.33	21	840	10	0.01	5	8	636	<20
M488348		20	1.70	10	1.16	542	3	3.02	26	610	7	0.02	<5	7	510	<20
M488349		20	2.01	10	1.21	511	2	2.73	20	510	5	0.07	7	6	441	<20
M488350		20	3.55	30	0.98	366	157	0.99	16	760	20	1.81	10	12	226	<20
M488351		20	1.97	10	1.09	474	3	2.96	26	570	8	0.08	<5	7	493	<20
M488352		20	2.05	10	1.20	546	3	3.25	26	590	7	0.04	<5	6	513	<20
M488353		20	2.10	10	1.27	513	3	3.21	26	580	9	0.02	<5	7	511	<20
M488354		20	2.06	10	1.26	504	2	3.37	25	590	9	0.02	<5	7	520	<20
M488355		20	1.96	10	1.03	418	1	3.37	25	580	10	0.01	<5	6	501	<20
M488356		20	1.99	10	1.11	486	3	3.18	24	560	15	0.05	<5	6	485	<20
M488357		20	1.88	10	1.28	569	2	2.72	26	570	21	0.32	12	7	468	<20
M488358		20	1.88	10	1.09	626	2	2.60	28	550	39	0.25	24	7	427	<20
M488359		20	1.76	10	1.11	512	1	2.98	25	590	9	0.03	5	6	516	<20
M488360		<10	0.03	<10	13.05	200	<1	0.02	6	150	<2	<0.01	<5	<1	48	<20
M488361		20	1.72	10	1.06	439	2	2.92	18	560	6	0.14	11	6	480	<20
M488362		20	1.96	10	0.99	496	3	2.84	35	580	84	0.35	61	7	474	<20
M488363		20	1.93	10	1.24	576	2	2.71	30	590	8	0.26	9	7	444	<20
M488364		20	1.75	10	1.18	606	2	2.36	30	600	6	0.43	7	7	402	<20
M488365		20	1.87	10	1.29	640	2	2.80	28	650	11	0.21	6	8	459	<20
M488366		20	1.87	10	1.35	524	2	3.18	30	620	7	0.01	<5	7	497	<20
M488367		20	2.05	10	1.33	509	2	3.15	29	610	10	0.05	5	8	491	<20
M488368		20	1.89	10	1.18	467	1	3.14	26	550	9	0.02	<5	7	481	<20
M488369		20	1.70	10	0.97	458	2	2.90	25	520	11	0.03	<5	6	448	<20
M488370		10	0.95	10	0.85	546	10	1.99	38	780	<2	0.11	<5	11	246	<20
M488371		20	2.25	10	1.20	464	2	3.05	26	560	14	0.02	<5	7	461	<20
M488372		20	1.92	10	1.35	530	2	3.17	30	610	18	0.01	5	8	504	<20





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Page: 4 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 8- NOV- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11196290**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Zn- OG62
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Zn % 0.001
M488333		0.38	<10	10	112	<10	89	
M488334		0.39	<10	10	116	<10	102	
M488335		0.41	<10	10	119	<10	97	
M488336		0.40	<10	10	116	<10	94	
M488337		0.41	<10	10	118	<10	111	
M488338		0.40	<10	<10	115	<10	109	
M488339		0.40	<10	10	117	<10	110	
M488340		0.01	<10	<10	3	<10	16	
M488341		0.40	<10	10	119	<10	113	
M488342		0.40	<10	10	122	<10	148	
M488343		0.38	<10	10	114	<10	96	
M488344		0.39	<10	10	116	<10	97	
M488345		0.38	<10	10	113	<10	109	
M488346		0.38	<10	10	108	<10	105	
M488347		0.39	<10	<10	116	<10	105	
M488348		0.33	<10	10	85	<10	82	
M488349		0.28	<10	10	72	<10	59	
M488350		0.24	<10	10	109	10	73	
M488351		0.33	<10	<10	80	<10	76	
M488352		0.33	<10	10	82	<10	88	
M488353		0.33	<10	10	82	<10	88	
M488354		0.33	<10	10	80	<10	78	
M488355		0.30	<10	10	75	<10	67	
M488356		0.30	<10	10	74	<10	85	
M488357		0.31	<10	10	79	<10	143	
M488358		0.31	<10	10	82	<10	436	
M488359		0.32	<10	10	81	<10	84	
M488360		<0.01	<10	<10	2	<10	15	
M488361		0.31	<10	10	79	<10	66	
M488362		0.31	<10	10	79	<10	104	
M488363		0.32	<10	10	84	<10	96	
M488364		0.31	<10	10	86	<10	105	
M488365		0.33	<10	10	90	<10	121	
M488366		0.34	<10	10	89	<10	68	
M488367		0.33	<10	10	89	<10	73	
M488368		0.30	<10	10	78	<10	68	
M488369		0.28	<10	10	74	<10	63	
M488370		0.27	<10	<10	107	<10	63	
M488371		0.32	<10	10	80	<10	71	
M488372		0.34	<10	10	88	<10	89	



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Page: 5 - A  
 Total # Pages: 5 (A - C)  
 Finalized Date: 8- NOV- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11196290**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	Au- GRA21 Au ppm	ME- ICP61 Ag ppm	ME- ICP61 Al %	ME- ICP61 As ppm	ME- ICP61 Ba ppm	ME- ICP61 Be ppm	ME- ICP61 Bi ppm	ME- ICP61 Ca %	ME- ICP61 Cd ppm	ME- ICP61 Co ppm	ME- ICP61 Cr ppm	ME- ICP61 Cu ppm	ME- ICP61 Fe %
M488373		7.14	0.011	<0.5	7.97	40	710	1.2	<2	2.78	<0.5	10	66	23	2.95	
M488374		7.52	0.003	<0.5	8.14	14	710	1.2	<2	2.74	<0.5	10	67	23	2.95	
M488375		7.38	0.003	<0.5	7.79	11	700	1.1	<2	2.65	<0.5	10	66	21	2.88	
M488376		6.82	0.011	<0.5	7.17	15	630	1.0	<2	3.15	<0.5	9	61	20	2.72	
M488377		6.72	0.019	<0.5	7.56	5	690	1.2	<2	2.70	<0.5	10	65	24	2.73	
M488378		5.96	0.019	<0.5	7.19	14	660	1.1	<2	2.59	<0.5	9	60	18	2.54	
M488379		4.84	0.114	<0.5	6.82	24	850	0.9	<2	2.39	<0.5	7	58	91	2.55	
M488380		0.94	0.001	<0.5	0.07	6	10	<0.5	2	20.6	<0.5	1	1	1	0.46	
M488381		4.64	0.020	<0.5	6.92	29	1000	0.9	<2	2.31	<0.5	6	48	188	2.48	
M488382		6.00	0.017	<0.5	7.75	25	440	1.2	<2	2.99	<0.5	9	61	10	3.85	
M488383		5.86	0.025	<0.5	7.76	28	520	1.2	<2	2.72	<0.5	8	56	7	3.28	
M488384		7.62	0.046	<0.5	7.38	108	630	0.9	<2	2.99	<0.5	8	65	10	3.45	
M488385		5.12	0.038	<0.5	7.68	12	580	1.1	<2	2.83	<0.5	9	68	38	2.93	
M488386		2.80	0.033	<0.5	6.93	15	630	1.1	<2	2.65	<0.5	9	58	17	2.88	
M488387		4.60	0.008	<0.5	6.91	17	600	1.0	<2	2.58	<0.5	9	62	27	2.78	
M488388		5.10	0.031	<0.5	7.08	53	610	0.9	<2	2.97	<0.5	10	60	54	2.94	
M488389		7.06	0.010	<0.5	7.19	12	620	1.0	<2	2.82	<0.5	11	67	21	2.82	
M488390		0.16	0.193	1.8	7.29	33	1380	1.1	2	2.03	0.8	15	96	1725	4.32	
M488391		5.28	0.005	<0.5	7.03	15	670	1.1	<2	2.94	<0.5	9	63	26	2.76	
M488392		6.22	0.004	<0.5	7.16	14	680	1.2	<2	2.63	<0.5	9	63	31	2.66	
M488393		4.28	0.046	<0.5	6.47	13	560	1.2	<2	3.14	<0.5	10	60	39	2.69	
M488394		3.16	0.016	<0.5	7.07	8	620	1.2	<2	2.78	<0.5	11	63	35	2.62	
M488395		2.38	0.053	<0.5	7.26	15	1320	1.2	<2	2.52	<0.5	11	68	43	2.37	
M488396		4.02	0.087	<0.5	6.92	6	600	1.1	<2	2.83	<0.5	10	62	61	2.57	
M488397		5.22	0.073	<0.5	7.13	37	630	1.1	<2	2.32	<0.5	10	59	38	2.40	
M488398		4.64	0.069	<0.5	5.85	88	340	0.6	<2	3.42	<0.5	8	49	34	2.74	
M488399		5.56	0.121	<0.5	5.60	79	220	0.6	<2	2.59	<0.5	8	51	25	2.30	
M488400		0.96	0.001	<0.5	0.14	<5	20	<0.5	<2	21.2	<0.5	<1	3	3	0.49	
M488401		5.54	0.008	<0.5	7.59	27	480	0.7	<2	3.39	<0.5	11	65	28	2.91	
M488402		5.78	0.014	<0.5	6.60	19	490	0.8	<2	2.62	<0.5	9	55	32	2.48	



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Page: 5 - B  
 Total # Pages: 5 (A - C)  
 Finalized Date: 8- NOV- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11196290**

Sample Description	Method Analyte Units LOR	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	
		Ga ppm 10	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sc ppm 1	Sr ppm 1	Th ppm 20
M488373		20	2.12	10	1.29	507	2	3.19	28	630	9	0.03	<5	8	495	<20
M488374		20	1.97	10	1.28	505	2	3.32	30	620	13	0.01	6	8	527	<20
M488375		20	2.18	10	1.27	494	2	3.18	31	580	15	<0.01	<5	8	492	<20
M488376		20	1.88	10	1.25	470	2	2.16	27	580	13	0.02	<5	7	531	<20
M488377		20	2.10	10	1.17	481	1	3.03	27	570	14	0.02	<5	7	475	<20
M488378		20	2.05	10	1.03	436	2	2.89	26	510	11	0.02	<5	6	447	<20
M488379		20	2.43	10	1.09	408	2	2.54	23	440	5	0.05	<5	7	397	<20
M488380		<10	0.02	<10	12.80	203	<1	0.01	5	160	<2	<0.01	<5	<1	48	<20
M488381		20	2.33	10	0.91	372	1	2.61	22	440	5	0.10	<5	5	401	<20
M488382		20	1.74	10	1.51	567	3	3.09	27	830	5	0.03	<5	8	508	<20
M488383		20	1.53	10	1.18	510	4	3.20	23	720	10	0.04	7	7	549	<20
M488384		20	1.42	10	1.24	571	1	1.92	29	610	6	0.50	18	7	363	<20
M488385		20	1.87	10	1.22	507	1	3.17	30	600	12	0.01	<5	8	500	<20
M488386		20	1.67	10	1.07	530	6	2.83	22	540	8	0.02	<5	6	461	<20
M488387		20	1.49	10	1.19	483	1	2.04	29	570	10	0.02	7	7	437	<20
M488388		20	1.38	10	1.22	556	2	1.87	31	580	10	0.02	9	7	426	<20
M488389		20	1.63	10	1.14	489	2	2.74	29	600	12	0.02	8	8	505	<20
M488390		20	3.50	20	0.96	362	157	0.96	16	750	21	1.83	13	11	226	<20
M488391		20	1.82	10	1.12	507	2	2.90	28	570	13	0.01	6	7	499	<20
M488392		20	1.79	10	1.05	490	2	3.06	27	580	15	0.01	6	7	482	<20
M488393		20	1.30	10	1.12	510	8	2.62	28	530	18	0.01	8	6	431	<20
M488394		20	1.63	10	1.01	449	3	2.57	33	570	16	0.02	5	7	434	<20
M488395		20	1.84	10	0.97	427	3	2.45	27	570	15	0.04	8	7	442	<20
M488396		20	1.63	10	1.03	458	3	2.61	29	550	9	0.03	5	7	442	<20
M488397		20	1.67	10	0.82	427	3	2.53	29	580	10	0.05	7	7	448	<20
M488398		10	0.95	10	1.49	473	3	0.07	21	470	14	0.40	22	6	477	<20
M488399		10	0.45	10	1.17	429	3	0.04	22	450	10	0.04	8	6	474	<20
M488400		<10	0.03	<10	12.50	210	1	0.01	6	180	2	<0.01	<5	<1	55	<20
M488401		20	1.25	10	1.44	554	3	0.40	26	530	18	0.02	8	8	415	<20
M488402		20	1.36	10	1.04	453	4	1.12	22	510	16	0.01	7	6	416	<20



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Page: 5 - C  
 Total # Pages: 5 (A - C)  
 Finalized Date: 8- NOV- 2011  
 Account: ELGFEC

Project: Eldorado

**CERTIFICATE OF ANALYSIS VA11196290**

Sample Description	Method Analyte Units LOR	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Zn- OG62
		Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Zn % 0.001
M488373		0.33	<10	10	86	<10	77	
M488374		0.33	<10	10	87	<10	83	
M488375		0.33	<10	10	85	<10	80	
M488376		0.31	<10	<10	80	<10	71	
M488377		0.31	<10	10	81	<10	68	
M488378		0.29	<10	<10	75	<10	60	
M488379		0.27	<10	10	71	<10	49	
M488380		<0.01	<10	<10	2	<10	14	
M488381		0.25	<10	10	67	<10	51	
M488382		0.41	<10	10	102	<10	75	
M488383		0.35	<10	10	93	<10	75	
M488384		0.31	<10	10	85	<10	61	
M488385		0.33	<10	10	89	<10	86	
M488386		0.29	<10	10	74	<10	79	
M488387		0.32	<10	<10	85	<10	75	
M488388		0.32	<10	<10	83	<10	67	
M488389		0.33	<10	10	88	<10	68	
M488390		0.23	<10	<10	106	10	69	
M488391		0.32	<10	10	84	<10	81	
M488392		0.32	<10	10	81	<10	85	
M488393		0.31	<10	10	80	<10	100	
M488394		0.33	<10	<10	85	<10	104	
M488395		0.32	<10	10	84	<10	97	
M488396		0.32	<10	10	83	<10	97	
M488397		0.31	<10	10	83	<10	89	
M488398		0.23	<10	<10	64	10	73	
M488399		0.24	<10	<10	63	<10	64	
M488400		<0.01	<10	10	3	<10	18	
M488401		0.32	<10	<10	84	<10	89	
M488402		0.27	<10	<10	72	<10	66	

**Appendix 11:  
XRF Analytical Method Specification Sheet**

# **Field Portable XRF (X-ray Fluorescence) Method Specifications- Talus Fine Samples\***

**Instrument:** Innov-X System XPD6000 Omega TM Series Handheld XRF Analyzer.

**Certified NDT Operator:** Angelina Buchar; Level 1 X-Ray Fluorescence Operator

**Elements Analysed:** In the “Soil” Mode there is a suite of 30 elements that can be analyzed; however due to the lack of sensitivity of some detection limits (note “Soil” mode elements are analyzed in ppm only), the lack of Vacuum Enhanced Operations to measure light elements and the performance of the elements in the standards, only a selection of the 30 elements were detected. The instrument gave readings for Ag, As, Ba, Co, Cr, Cu, Fe, Hg, Mn, Mo, Ni, Pb, Rb, Sb, Se, Sr, Ti, Zn, Zr. Of these elements, As, Ba, Cu, Fe, Mn, Ti and Zn are considered usable on a consistent basis.

## **Method Description (Talus Fine Samples):**

Sample heterogeneity, including particle size, moisture, organic content, was identified as a possible issue for XRF analysis. All samples were collected and dried in the poly bags in which they were collected for at least one day to reduce moisture content. A split of the original sample was stored in a coffee filter due to glue failure using kraft soil bags. The coffee filters were used as an alternative for drying and proved to be thinner than Kraft bags for improved FPXRF detectability. Samples were air dried and the larger size fraction was removed to produce a sample with a consistent size fraction. The sorted and dried sample material was then analyzed for 60 seconds through the filter.

## **QA/QC:**

At the start of an analysis session and periodically during a testing session the instrument is standardized using the standard reference samples provided by Innov-X, in this particular case the 316 clip.

An analysis of the standard reference material is done between every 20 samples. The difference between the XRF result and the value of the standard for each element should be 20% or less. One certified blank, JC-3 and three standard reference materials, JG-1; ELD2010\_207513; and ELD2010\_207510; are run every 20<sup>th</sup> sample. These samples are run as powder on a 4um Prolene thinfilm and there is no organic content in the reference materials. A duplicate analysis is performed on every 20<sup>th</sup> sample. This sample is labeled with a “\_2” suffix after the original sample ID.

\*Due to variable levels of accuracy and precision, this method should not be a direct replacement for laboratory analysis. This method should be considered as an alternative to geochemical analysis at early stages of exploration as it provides real time geochemical data with a high degree of analytical accuracy in a short periods of time. Currently, this method of analysis is not a commonly accepted industry standard for geochemical analysis. This method is not a 43-101 compliant analysis.

**Appendix 12:**  
**ALS Minerals Method Specification Sheets**



## Fire Assay Procedure

### Au- ICP21 and Au- ICP22 Fire Assay Fusion ICP- AES Finish

#### Sample Decomposition:

Fire Assay Fusion (FA-FUSPG1 & FA-FUSPG2)

#### Analytical Method:

Inductively Coupled Plasma – Atomic Emission Spectrometry (ICP-AES)

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested in 0.5 mL dilute nitric acid in the microwave oven. 0.5 mL concentrated hydrochloric acid is then added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 4 mL with de-mineralized water, and analyzed by inductively coupled plasma atomic emission spectrometry against matrix-matched standards.

Method Code	Element	Symbol	Units	Sample Weight (g)	Lower Limit	Upper Limit	Default Overlimit Method
Au-ICP21	Gold	Au	ppm	30	0.001	10	Au-AA25
Au-ICP22	Gold	Au	ppm	50	0.001	10	Au-AA26

Revision 01.01  
Aug 18, 2005

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## Geochemical Procedure

### Au- TL43, Au- TL44

### Determination of Trace Level Gold by Solvent Extraction – Graphite furnace AAS or ICPMS finish

#### Sample Decomposition:

Aqua regia gold digestion (GEO-AuAR01/02)

#### Analytical Method:

Inductively coupled mass spectrometry (ICPMS) or Atomic absorption spectrometry (AAS)

A finely pulverised sample (25 – 50 g) is digested in a mixture of 3 parts hydrochloric acid and 1 part nitric acid (aqua regia). This acid mixture generates nascent chlorine and nitrosyl chloride, which will dissolve free gold and gold compounds such as calaverite, AuTe<sub>2</sub>.

The dissolved gold is complexed and extracted with Kerosene/DBS and determined by graphite furnace AAS. Alternatively gold is determined by ICPMS directly from the digestion liquor. This method allows for the simple and economical addition of extra elements by running the digestion liquor through the ICPAES or ICPMS.

**Note:** Samples high in sulphide or carbon content may lead to low gold recoveries unless they are roasted prior to digestion.

Method	Element	Sample Mass	Units	Lower Limit	Upper Limit	Default Overlimit Method
Au-TL43	Gold	25 g	ppm	0.001	1	Au-OG43
Au-TL44	Gold	50 g	ppm	0.001	1	Au-OG44

Revision 01.00  
Mar 27, 2006

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## Geochemical Procedure

### ME- ICP61

## Trace Level Methods Using Conventional ICP- AES Analysis

### Sample Decomposition:

HNO<sub>3</sub>-HClO<sub>4</sub>-HF-HCl digestion, HCl Leach (GEO-4ACID)

### Analytical Method:

Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)

A prepared sample (0.25 g) is digested with perchloric, nitric, hydrofluoric and hydrochloric acids. The residue is topped up with dilute hydrochloric acid and the resulting solution is analyzed by inductively coupled plasma-atomic emission spectrometry. Results are corrected for spectral interelement interferences.

**NOTE:** Four acid digestions are able to dissolve most minerals; however, although the term "*near-total*" is used, depending on the sample matrix, not all elements are quantitatively extracted.

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Silver	Ag	ppm	0.5	100	Ag-OG62
Aluminum	Al	%	0.01	50	
Arsenic	As	ppm	5	10000	
Barium	Ba	ppm	10	10000	
Beryllium	Be	ppm	0.5	1000	
Bismuth	Bi	ppm	2	10000	
Calcium	Ca	%	0.01	50	
Cadmium	Cd	ppm	0.5	500	
Cobalt	Co	ppm	1	10000	Co-OG62
Chromium	Cr	ppm	1	10000	
Copper	Cu	ppm	1	10000	Cu-OG62
Iron	Fe	%	0.01	50	
Gallium	Ga	ppm	10	10000	

Revision 03.01  
May 1, 2007

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## Geochemical Procedure

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Potassium	K	%	0.01	10	
Lanthanum	La	ppm	10	10000	
Magnesium	Mg	%	0.01	50	
Manganese	Mn	ppm	5	100000	
Molybdenum	Mo	ppm	1	10000	Mo-OG62
Sodium	Na	%	0.01	10	
Nickel	Ni	ppm	1	10000	Ni-OG62
Phosphorus	P	ppm	10	10000	
Lead	Pb	ppm	2	10000	Pb-OG62
Sulphur	S	%	0.01	10	
Antimony	Sb	ppm	5	10000	
Scandium	Sc	ppm	1	10000	
Strontium	Sr	ppm	1	10000	
Thorium	Th	ppm	20	10000	
Titanium	Ti	%	0.01	10	
Thallium	Tl	ppm	10	10000	
Uranium	U	ppm	10	10000	
Vanadium	V	ppm	1	10000	
Tungsten	W	ppm	10	10000	
Zinc	Zn	ppm	2	10000	Zn-OG62

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May 1, 2007

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## Geochemical Procedure

Elements listed  
below are available upon request

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Lithium	Li	ppm	10	10000	
Niobium	Nb	ppm	5	2000	
Rubidium	Rb	ppm	10	10000	
Selenium	Se	ppm	10	1000	
Tin	Sn	ppm	10	10000	
Tantalum	Ta	ppm	10	10000	
Tellurium	Te	ppm	10	10000	
Yttrium	Y	ppm	10	10000	
Zirconium	Zr	ppm	5	500	

Revision 03.01  
May 1, 2007

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## Geochemical Procedure

### ME- MS41

### Ultra- Trace Level Methods Using ICP- MS and ICP- AES

#### Sample Decomposition:

Aqua Regia Digestion (GEO-AR01)

#### Analytical Method:

Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

A prepared sample (0.50 g) is digested with aqua regia in a graphite heating block. After cooling, the resulting solution is diluted to with deionized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. Following this analysis, the results are reviewed for high concentrations of bismuth, mercury, molybdenum, silver and tungsten and diluted accordingly. Samples are then analysed by ICP-MS for the remaining suite of elements. The analytical results are corrected for inter-element spectral interferences.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	0.01	100
Aluminum	Al	%	0.01	25
Arsenic	As	ppm	0.1	10 000
Gold	Au	ppm	0.2	25
Boron	B	ppm	10	10 000
Barium	Ba	ppm	10	10 000
Beryllium	Be	ppm	0.05	1 000
Bismuth	Bi	ppm	0.01	10 000
Calcium	Ca	%	0.01	25
Cadmium	Cd	ppm	0.01	1 000
Cerium	Ce	ppm	0.02	500
Cobalt	Co	ppm	0.1	10 000
Chromium	Cr	ppm	1	10 000

Revision 04.00  
Sep 20, 2006

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## Geochemical Procedure

Element	Symbol	Units	Lower Limit	Upper Limit
Cesium	Cs	ppm	0.05	500
Copper	Cu	ppm	0.2	10 000
Iron	Fe	%	0.01	50
Gallium	Ga	ppm	0.05	10 000
Germanium	Ge	ppm	0.05	500
Hafnium	Hf	ppm	0.02	500
Mercury	Hg	ppm	0.01	10 000
Indium	In	ppm	0.005	500
Potassium	K	%	0.01	10
Lanthanum	La	ppm	0.2	10 000
Lithium	Li	ppm	0.1	10 000
Magnesium	Mg	%	0.01	25
Manganese	Mn	ppm	5	50 000
Molybdenum	Mo	ppm	0.05	10 000
Sodium	Na	%	0.01	10
Niobium	Nb	ppm	0.05	500
Nickel	Ni	ppm	0.2	10 000
Phosphorus	P	ppm	10	10 000
Lead	Pb	ppm	0.2	10 000
Rubidium	Rb	ppm	0.1	10 000
Rhenium	Re	ppm	0.001	50
Sulphur	S	%	0.01	10
Antimony	Sb	ppm	0.05	10 000
Scandium	Sc	ppm	0.1	10 000
Selenium	Se	ppm	0.2	1 000
Tin	Sn	ppm	0.2	500
Strontium	Sr	ppm	0.2	10 000

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Sep 20, 2006

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## Geochemical Procedure

Element	Symbol	Units	Lower Limit	Upper Limit
Tantalum	Ta	ppm	0.01	500
Tellurium	Te	ppm	0.01	500
Thorium	Th	ppm	0.2	10000
Titanium	Ti	%	0.005	10
Thallium	Tl	ppm	0.02	10 000
Uranium	U	ppm	0.05	10 000
Vanadium	V	ppm	1	10 000
Tungsten	W	ppm	0.05	10 000
Yttrium	Y	ppm	0.05	500
Zinc	Zn	ppm	2	10 000
Zirconium	Zr	ppm	0.5	500

**NOTE:** In the majority of geological matrices, data reported from an aqua regia leach should be considered as representing only the leachable portion of the particular analyte.



## Geochemical Procedure

### ME- MS81 Ultra- Trace Level Methods

#### Sample Decomposition:

Lithium Metaborate Fusion (FUS-LI01)

#### Analytical Method:

Inductively Coupled Plasma - Mass Spectroscopy (ICP - MS)

A prepared sample (0.200 g) is added to lithium metaborate flux (0.90 g), mixed well and fused in a furnace at 1000°C. The resulting melt is then cooled and dissolved in 100 mL of 4% HNO<sub>3</sub> / 2% HCl solution. This solution is then analyzed by inductively coupled plasma - mass spectrometry.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver*	Ag	ppm	1	1000
Barium	Ba	ppm	0.5	10000
Cerium	Ce	ppm	0.5	10000
Cobalt*	Co	ppm	0.5	10000
Chromium	Cr	ppm	10	10000
Cesium	Cs	ppm	0.01	10000
Copper*	Cu	ppm	5	10000
Dysprosium	Dy	ppm	0.05	1000
Erbium	Er	ppm	0.03	1000
Europium	Eu	ppm	0.03	1000
Gallium	Ga	ppm	0.1	1000
Gadolinium	Gd	ppm	0.05	1000
Hafnium	Hf	ppm	0.2	10000
Holmium	Ho	ppm	0.01	1000

Revision 05.00  
Feb 26, 2009

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## Geochemical Procedure

Element	Symbol	Units	Lower Limit	Upper Limit
Lanthanum	La	ppm	0.5	10000
Lutetium	Lu	ppm	0.01	1000
Molybdenum*	Mo	ppm	2	10000
Niobium	Nb	ppm	0.2	10000
Neodymium	Nd	ppm	0.1	10000
Nickel*	Ni	ppm	5	10000
Lead*	Pb	ppm	5	10000
Praseodymium	Pr	ppm	0.03	1000
Rubidium	Rb	ppm	0.2	10000
Samarium	Sm	ppm	0.03	1000
Tin	Sn	ppm	1	10000
Strontium	Sr	ppm	0.1	10000
Tantalum	Ta	ppm	0.1	10000
Terbium	Tb	ppm	0.01	1000
Thorium	Th	ppm	0.05	1000
Thallium	Tl	ppm	0.5	1000
Thulium	Tm	ppm	0.01	1000
Uranium	U	ppm	0.05	1000
Vanadium	V	ppm	5	10000
Tungsten	W	ppm	1	10000
Yttrium	Y	ppm	0.5	10000
Ytterbium	Yb	ppm	0.03	1000
Zinc*	Zn	ppm	5	10000
Zirconium	Zr	ppm	2	10000

**\*Note:** Some base metal oxides and sulfides may not be completely decomposed by the lithium borate fusion. Results for Ag, Co, Cu, Mo, Ni, Pb, and Zn will not likely be quantitative by this method.

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## Geochemical Procedure

### Adding Base Metals – ME- AQ81, ME- 4ACD81

**Sample Decomposition:** Aqua Regia (GEO-AR01) or 4-acid (GEO-4ACID)  
**Analytical Method:** Inductively Coupled Plasma – Atomic Emission spectroscopy (ICP - AES)

The lithium metaborate fusion is not the preferred method for the determination of base metals. Many sulfides and some metal oxides are only partially decomposed by the borate fusion and some elements such as cadmium and zinc can be volatilized.

Base metals can be reported with ME-MS81 for either an aqua regia digestion (**ME- AQ81**) or a four acid digestion (**ME- 4ACD81**). The four acid digestion is preferred when the targets include more resistive mineralization such as that associated with nickel and cobalt.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	0.5	100
Arsenic	As	ppm	5	10000
Cadmium	Cd	ppm	0.5	10000
Cobalt	Co	ppm	1	10000
Copper	Cu	ppm	1	10000
Mercury**	Hg	ppm	1	10000
Molybdenum	Mo	ppm	1	10000
Nickel	Ni	ppm	1	10000
Lead	Pb	ppm	1	10000
Zinc	Zn	ppm	2	10000

\*\*Hg is only offered with the aqua regia digestion.

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Feb 26, 2009

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## Sample Preparation Package

### PREP- 31

### Standard Sample Preparation: Dry, Crush, Split and Pulverize

Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory.

The sample is logged in the tracking system, weighed, dried and finely crushed to better than 70 % passing a 2 mm (Tyler 9 mesh, US Std. No.10) screen. A split of up to 250 g is taken and pulverized to better than 85 % passing a 75 micron (Tyler 200 mesh, US Std. No. 200) screen. This method is appropriate for rock chip or drill samples.

Method Code	Description
LOG-22	Sample is logged in tracking system and a bar code label is attached.
DRY-21	Drying of excessively wet samples in drying ovens. This is the default drying procedure for most rock chip and drill samples.
CRU-31	Fine crushing of rock chip and drill samples to better than 70 % of the sample passing 2 mm.
SPL-21	Split sample using riffle splitter.
PUL-31	A sample split of up to 250 g is pulverized to better than 85 % of the sample passing 75 microns.

Revision 02.03  
Feb 22, 2010

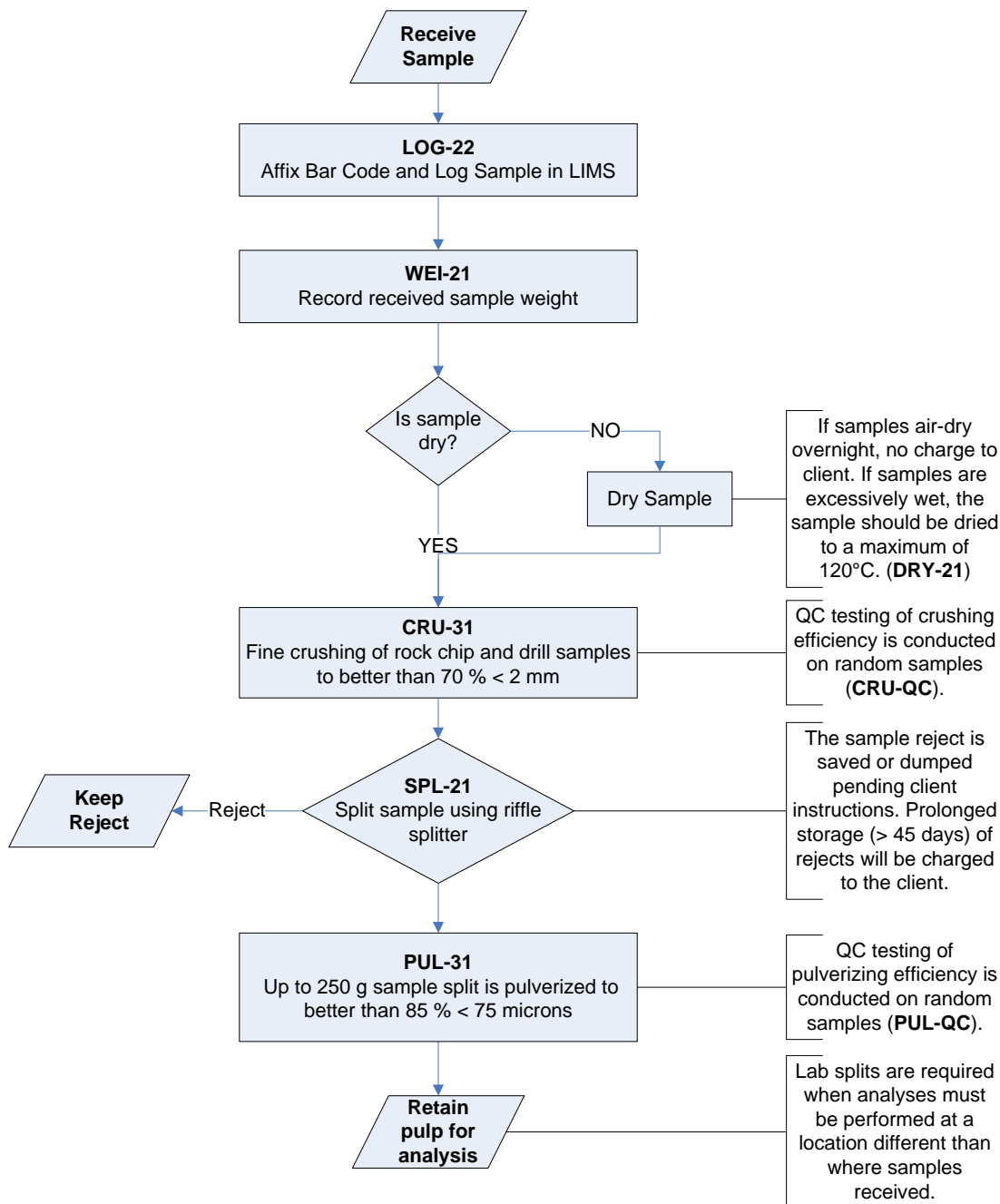
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## Sample Preparation Package

### Flow Chart - Sample Preparation Package - PREP- 31 Standard Sample Preparation: Dry, Crush, Split and Pulverize



Revision 02.03  
Feb 22, 2010



## Sample Preparation Package

### PREP- 41

#### Standard Preparation: Dry sample and dry- sieve to -180 micron

Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory.

An entire sample is dried and then dry-sieved using a 180 micron (Tyler 80 mesh) screen. The plus fraction is retained unless disposal is requested. This method is appropriate for soil or sediment samples up to 1 kg in weight.

Method Code	Description
LOG-22	Sample is logged in tracking system and a bar code label is attached.
DRY-22	Low temperature drying of excessively wet samples where the oven temperature is not to exceed 60°C. This method is suitable for more soil and sediment samples that are analyzed for volatile elements.
SCR-41	Sample is dry-sieved to - 180 micron and both the plus and minus fractions are retained.

Revision 02.01  
Feb 22, 2010

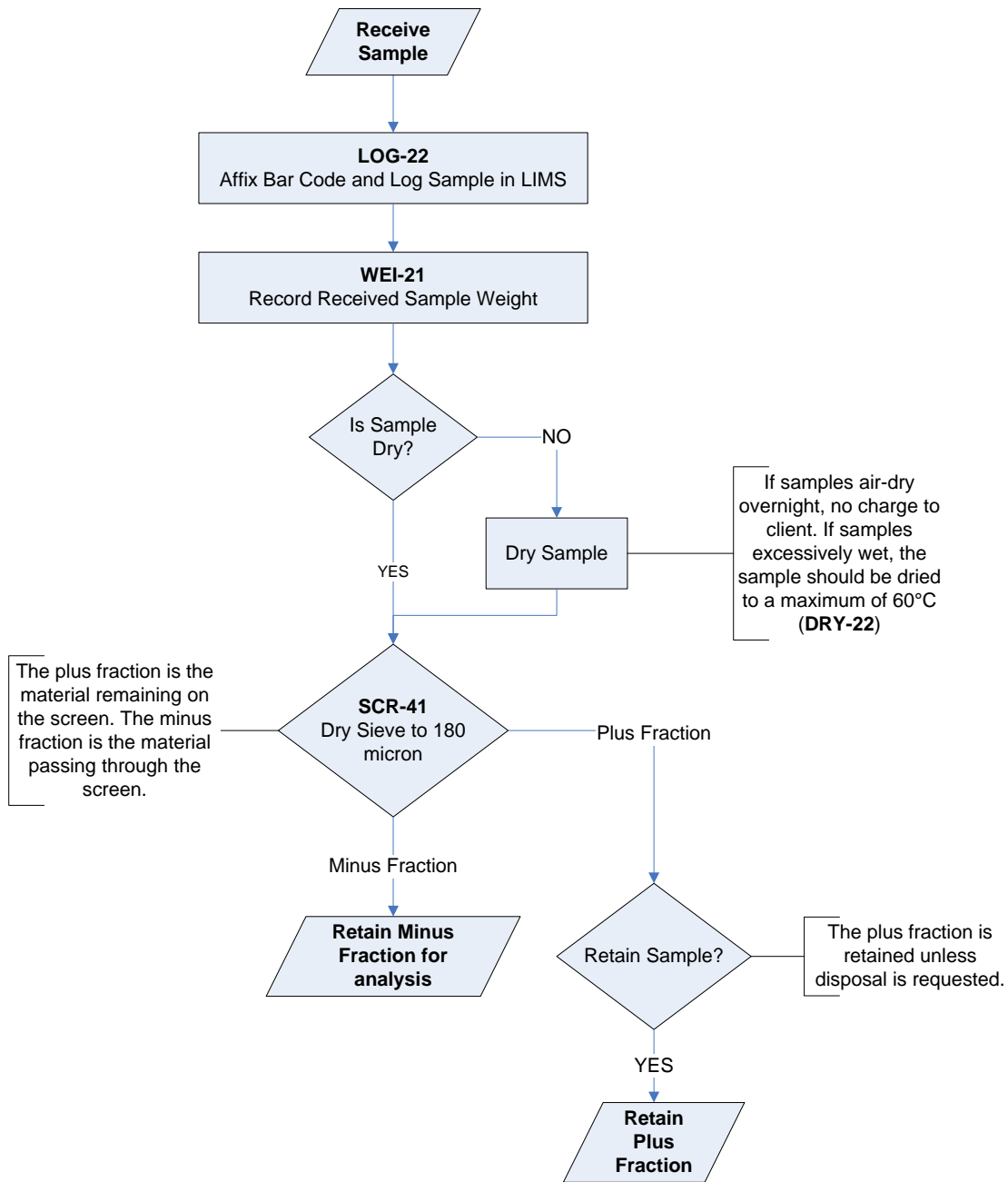
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## Sample Preparation Package

### Sample Preparation Flowchart Package -PREP- 41



Revision 02.01  
Feb 22, 2010

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**Appendix 13:  
Certified Standard Reference Material Assay  
Certificates**

# CDN Resource Laboratories Ltd.

#2, 20148 - 102nd Avenue, Langley, B.C., Canada, V1M 4B4, Ph: 604-882-8422 Fax: 604-882-8466  
(www.cdnlabs.com)

## REFERENCE MATERIAL: CDN-CGS-23

Recommended values and the "Between Lab" Two Standard Deviations

*Copper concentration: 0.182 ± 0.010 %*

*Gold concentration: 0.218 ± 0.036 g/t (Provisional value only, RSD = 8.17%)*

**PREPARED BY:** CDN Resource Laboratories Ltd.

**CERTIFIED BY:** Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia

**INDEPENDENT GEOCHEMIST:** Dr. Barry Smee., Ph.D., P. Geo.

**DATE OF CERTIFICATION:** November 17, 2009

### **METHOD OF PREPARATION:**

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 14 laboratories for round robin assaying.

### **ORIGIN OF REFERENCE MATERIAL:**

The ore was supplied by Pacific Sentinel from the Casino Property in the Yukon Territory, Canada. Copper-gold-molybdenum mineralization is genetically related to a breccia and microbreccia pipe of fine grained quartz monzonites, intrusion breccias, and plagioclase-porphyritic intrusions that may be subvolcanic in origin, comprising part of the 72-74 Ma Casino Intrusive Complex. Roughly centred on the microbreccia pipe, both the alteration and mineralization are zoned. Innermost is the potassic alteration suite consisting of K-feldspar, biotite, magnetite, anhydrite, gypsum, and pyrite, chalcopyrite, molybdenite, and gold.

### **Approximate chemical composition is as follows:**

	Percent			Percent
SiO <sub>2</sub>	61.0		MgO	1.8
Al <sub>2</sub> O <sub>3</sub>	14.2		K <sub>2</sub> O	4.5
Fe <sub>2</sub> O <sub>3</sub>	5.8		TiO <sub>2</sub>	0.5
CaO	2.7		LOI	6.1
Na <sub>2</sub> O	1.3		S	1.8

### **Statistical Procedures:**

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.



## REFERENCE MATERIAL CDN-CGS-23

### Results from round-robin assaying:

**Assay Procedures:**    **Au:** Fire assay pre-concentration, AA or ICP finish (30g sub-sample).  
                                   **Cu:** 4-acid digestion, AA or ICP finish.

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)	Au (g/t)
CGS-23-1	0.249	0.26	0.21	0.210	0.219	0.201	0.205	0.24	0.25	0.190	0.25	0.186	0.196	0.298	0.20
CGS-23-2	0.233	0.24	0.21	0.197	0.190	0.246	0.210	0.24	0.29	0.244	0.23	0.232	0.212	0.207	0.22
CGS-23-3	0.236	0.23	0.17	0.211	0.234	0.209	0.210	0.27	0.28	0.210	0.28	0.235	0.207	0.219	0.22
CGS-23-4	0.240	0.24	0.25	0.224	0.234	0.234	0.200	0.22	0.28	0.207	0.26	0.216	0.217	0.264	0.24
CGS-23-5	0.231	0.23	0.23	0.196	0.204	0.250	0.200	0.19	0.25	0.206	0.24	0.222	0.191	0.245	0.24
CGS-23-6	0.241	0.23	0.22	0.200	0.228	0.205	0.195	0.20	0.23	0.200	0.23	0.220	0.221	0.248	0.22
CGS-23-7	0.266	0.22	0.21	0.229	0.210	0.200	0.200	0.20	0.27	0.235	0.27	0.219	0.185	0.245	0.21
CGS-23-8	0.227	0.22	0.21	0.218	0.215	0.202	0.210	0.19	0.30	0.195	0.28	0.221	0.239	0.303	0.22
CGS-23-9	0.263	0.22	0.19	0.228	0.304	0.192	0.210	0.21	0.28	0.235	0.23	0.231	0.204	0.234	0.23
CGS-23-10	0.221	0.22	0.22	0.222	0.205	0.217	0.200	0.20	0.28	0.229	0.23	0.234	0.189	0.206	0.25
Mean	0.241	0.231	0.214	0.214	0.224	0.216	0.204	0.214	0.271	0.215	0.250	0.222	0.206	0.247	0.225
Std. Dev.	0.015	0.013	0.022	0.013	0.031	0.021	0.006	0.027	0.021	0.019	0.021	0.014	0.017	0.034	0.015
%RSD	6.13	5.57	10.08	5.91	13.97	9.53	2.78	12.78	7.87	8.80	8.43	6.45	8.14	13.68	6.71
	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)	Cu (%)
CGS-23-1	0.180	0.188	0.180	0.188	0.177	0.175	0.188	0.186	0.183	0.191	0.176	0.160	0.163	0.198	0.190
CGS-23-2	0.181	0.187	0.178	0.187	0.174	0.176	0.185	0.187	0.186	0.173	0.178	0.173	0.176	0.208	0.190
CGS-23-3	0.182	0.188	0.181	0.187	0.179	0.175	0.186	0.187	0.179	0.186	0.173	0.174	0.172	0.209	0.190
CGS-23-4	0.179	0.184	0.179	0.186	0.179	0.178	0.188	0.186	0.189	0.188	0.172	0.166	0.179	0.203	0.190
CGS-23-5	0.176	0.187	0.179	0.188	0.176	0.182	0.184	0.187	0.184	0.177	0.172	0.175	0.184	0.200	0.190
CGS-23-6	0.180	0.186	0.180	0.189	0.176	0.176	0.184	0.186	0.178	0.188	0.175	0.175	0.182	0.195	0.180
CGS-23-7	0.187	0.19	0.182	0.185	0.180	0.175	0.185	0.186	0.184	0.183	0.173	0.179	0.181	0.206	0.180
CGS-23-8	0.179	0.184	0.182	0.186	0.179	0.177	0.184	0.187	0.184	0.172	0.180	0.175	0.176	0.200	0.180
CGS-23-9	0.172	0.186	0.179	0.187	0.179	0.177	0.186	0.185	0.186	0.178	0.180	0.165	0.183	0.202	0.190
CGS-23-10	0.178	0.186	0.181	0.186	0.182	0.177	0.185	0.187	0.190	0.184	0.175	0.182	0.184	0.196	0.190
Mean	0.179	0.187	0.180	0.187	0.178	0.177	0.186	0.186	0.184	0.182	0.175	0.172	0.178	0.202	0.187
Std. Dev.	0.004	0.002	0.001	0.001	0.002	0.002	0.002	0.001	0.004	0.007	0.003	0.007	0.007	0.005	0.005
%RSD	2.08	0.98	0.76	0.64	1.31	1.16	0.81	0.36	2.06	3.73	1.75	3.91	3.71	2.40	2.58

**Note:** Au data from Labs 9 & 11 was removed for failing the "t" test.  
 Cu data from Labs 12 & 14 was removed for failing the "t" test.

**STANDARD REFERENCE MATERIAL CDN-CGS-23**

**Participating Laboratories:**

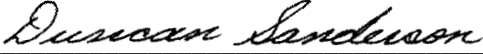
(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada  
Actlabs, Ancaster, Ontario, Canada  
Actlabs, Thunder Bay, Ontario, Canada  
ALS Chemex Laboratories, North Vancouver, B.C., Canada  
Assayers Canada Ltd., Vancouver, B.C., Canada  
Eco Tech Laboratory Ltd., Kamloops, B.C., Canada  
Genalysis Laboratory Services Pty. Ltd., Australia  
Inspectorate America, Nevada, USA  
International Plasma Laboratories, Richmond, B.C., Canada  
Labtium Laboratory, Finland  
OMAC Laboratories Ltd., Ireland  
SGS Toronto, Ontario, Canada  
Skyline Assayers & Laboratories, Tucson, Arizona, USA  
TSL Laboratories, Saskatoon, Canada  
Ultra Trace Analytical Laboratories, Australia


**Legal Notice:**

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. or Barry Smee accept no liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by

  
\_\_\_\_\_  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist

  
\_\_\_\_\_  
Dr. Barry Smee, Ph.D., P. Geo.

# CDN Resource Laboratories Ltd.

#2, 20148 – 102<sup>nd</sup> Avenue, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

## REFERENCE MATERIAL: CDN-GS-P4A

Recommended value and the "Between Laboratory" two standard deviations

**Gold concentration:  $0.438 \pm 0.032$  g/t (30g Fire Assay / ICP)**

**PREPARED BY:** CDN Resource Laboratories Ltd.  
**CERTIFIED BY:** Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia  
**INDEPENDENT GEOCHEMIST:** Dr. Barry Smee., Ph.D., P. Geo.  
**DATE OF CERTIFICATION:** May 2, 2011

### **ORIGIN OF REFERENCE MATERIAL:**

Standard CDN-GS-P4A was prepared using ore supplied by Barrick Gold Inc. from their Cortez Hills Mine in Nevada, USA. It is Carlin Style Mineralization in the prolific Northern Carlin Trend in Northern Nevada, USA. The source material is from Devonian carbonates of the Popovich Formation. Gold is strongly associated with oxidized pyrite and other sulfides including the arsenic minerals orpiment and realgar. 42 kg of the Barrick ore was combined with 730 kg of a blank, granitic rock.

### **METHOD OF PREPARATION:**

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying. Round robin results are displayed below:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
Sample	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
GS-P4A-1	0.462	0.439	0.411	0.426	0.415	0.43	0.46	0.435	0.426	0.461	0.44	0.486	0.44	0.43	0.452
GS-P4A-2	0.445	0.447	0.401	0.419	0.420	0.45	0.43	0.437	0.433	0.462	0.44	0.486	0.39	0.44	0.446
GS-P4A-3	0.446	0.437	0.401	0.427	0.449	0.46	0.46	0.447	0.423	0.482	0.44	0.494	0.39	0.44	0.460
GS-P4A-4	0.434	0.450	0.408	0.423	0.451	0.45	0.43	0.425	0.426	0.462	0.44	0.478	0.38	0.44	0.413
GS-P4A-5	0.454	0.444	0.403	0.388	0.435	0.43	0.44	0.467	0.431	0.479	0.42	0.442	0.41	0.47	0.394
GS-P4A-6	0.450	0.436	0.395	0.434	0.441	0.42	0.46	0.437	0.435	0.470	0.45	0.484	0.39	0.43	0.416
GS-P4A-7	0.462	0.438	0.410	0.406	0.421	0.46	0.42	0.447	0.452	0.455	0.43	0.504	0.38	0.43	0.452
GS-P4A-8	0.439	0.436	0.400	0.415	0.433	0.45	0.42	0.433	0.446	0.466	0.44	0.470	0.42	0.44	0.441
GS-P4A-9	0.446	0.437	0.406	0.423	0.443	0.46	0.44	0.447	0.438	0.448	0.43	0.456	0.38	0.46	0.430
GS-P4A-10	0.440	0.434	0.394	0.429	0.422	0.42	0.43	0.427	0.433	0.464	0.44	0.470	0.43	0.44	0.443
Mean	0.448	0.440	0.403	0.419	0.433	0.443	0.439	0.440	0.434	0.465	0.437	0.477	0.401	0.442	0.435
Std. Dev'n	0.0094	0.0053	0.0059	0.0134	0.0129	0.0164	0.0160	0.0122	0.0091	0.0102	0.0082	0.0182	0.0223	0.0132	0.0208
%RSD	2.09	1.21	1.45	3.20	2.99	3.69	3.63	2.77	2.09	2.19	1.88	3.82	5.57	2.98	4.79

**Note: Data from Labs 12 and 13 was excluded for failing the t test.**

### APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

	Percent		Percent
SiO <sub>2</sub>	73.6	Na <sub>2</sub> O	2.7
Al <sub>2</sub> O <sub>3</sub>	10.0	MgO	1.4
Fe <sub>2</sub> O <sub>3</sub>	4.8	K <sub>2</sub> O	1.1
CaO	3.2	TiO <sub>2</sub>	0.5
MnO	< 0.1	LOI	2.2
Total S	0.1	Total C	0.4

**REFERENCE MATERIAL: CDN-GS-P4A**

**Statistical Procedures:**

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation were calculated using all remaining data. Any analysis that fell outside of the mean  $\pm 2$  standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

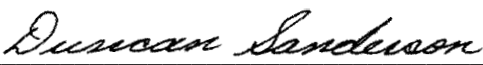
Participating Laboratories: (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada  
Activation Laboratories, Ancaster, Ontario, Canada  
Activation Laboratories, Thunder Bay, Ontario, Canada  
Alfred Knight, Kamloops, Canada  
ALS Chemex, North Vancouver, B.C., Canada  
American Assay Laboratories, Nevada, USA  
Eco Tech Laboratory Ltd., Kamloops, B.C., Canada  
Genalysis Lab Services, Australia  
Inspectorate, Richmond, B.C., Canada  
OMAC Laboratories Ltd., Ireland  
SGS, Vancouver, Canada  
SGS, Lima, Peru  
Skyline, Arizona, \usa  
TSL Laboratories Ltd., Saskatoon, SK, Canada  
Ultra Trace Laboratories Ltd., Australia


Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by

  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist

  
Dr. Barry Smee, Ph.D., P. Geo.

**Appendix 14:  
2011 QAQC Summary Report**

**Quality Assurance Quality Control Report:**

**2011 Eldorado Project – Claim #514957  
QAQC Procedures and Results**

**Eleanor Black, GIT  
Gold Fields Canada Exploration BV  
February 21, 2012**



**GOLD FIELDS**

## Table of Contents

1.0	Summary .....	2
2.0	2011 QAQC Procedure .....	2
2.1	Drillhole Standard & Blank Performance .....	3
2.2	Drillhole Duplicates .....	5
3.0	Certificate of Qualifications – Eleanor Black .....	7

## Table of Figures

Figure 1.	CDN-CGS-23 performance for Au – Drill Core .....	4
Figure 2.	CDN-GS-P4A performance for Au – Drill Core .....	4
Figure 3.	Field Blank performance for Au – Drill Core .....	5
Figure 4.	Original vs. Labcheck Pulp Duplicates for Au – Drill Core .....	6
Figure 5.	Mean vs. MPD for Au in Labcheck Pulp Duplicates – Drill Core .....	6

## Table of Tables

Table 1.	Table of QAQC Logic .....	2
Table 2.	Table of Certified Reference Materials -2011 .....	2

## Commonly Used Abbreviations

Au	gold
ppm	part per million
MPD	mean percent difference
RSD	relative standard deviation
CRM	certified reference material
QC	quality control
QAQC	quality assurance quality control
csv	comma separated value file
Std Dev	standard deviation
LDL	lower detection limit

## 1.0 Summary

A total of 135 drill core samples were collected in the 2011 diamond drill program on the – Claim #514957, Eldorado Project. The drill assay results were subjected to a basic Quality Assurance Quality (QAQC) program including insertion of 8 field blanks and 7 certified reference materials (CRMs). A total of 150 samples were submitted to ALS Minerals, of North Vancouver, BC for the Robson Claim drill program. Gold Fields has confidence in the results produced by ALS Minerals.

A portion of the Eldorado Project talus fine sampling program was implemented over a surface grid on the claim #514957. The summary of the talus fine sample QAQC is found in Skinner, 2011 (Assessment Report on 2011 Activities on the Eldorado Property). Overall Gold Fields has confidence in the ALS' results for the talus fine samples.

## 2.0 2011 QAQC Procedure

Each assay batch was evaluated for quality control (QC) sample performance upon receipt of the datafile and certified certificate. The original datafile was loaded directly into the Gold Field's Maxwell DataShed database. The certificate was assessed in terms of QC sample performance for Au. QC samples were required to follow the Table of QAQC Logic found in Table 1. QC sample failures in unmineralized areas were accepted and no further follow up was required. In the event that a QC sample result fell outside of the expected range with a mineralized zone, the offending sample and 10 - 20 % of the adjacent samples were sent for re-analysis by the failing method. Check results replaced original results in the database, in cases where the QC sample re-analysis result passes the Table of QAQC Logic criteria and if the surrounding repeat results are reasonable. Check analyses were returned on a new certificate. Original QC sample results are tracked in excel and an additional QC sample performance spreadsheet is kept with the re-analysis results (original certificate rejected).

Table 1. Table of QAQC Logic

QAQC CRITERIA
CRM's exceeding the mean $\pm 3$ SD are failures (accuracy).
Two adjacent QC samples that exceeding the mean $\pm 2$ SD are failures (bias). Note: the samples do not have to be the same QC sample type.
Field blanks that exceed the Warning Limit are failures (contamination).

Two gold  $\pm$  copper certified reference materials (CRMs) were purchased from CDN Resource Laboratories of Langley, BC for the Eldorado drill program. The expected values and standard deviations are in Table 2. Coarse field blank material for the 2011 season was a landscaping limestone, purchased from local garden and landscaping stores. The field blank warning level observed for 2011 was 0.01 ppm Au.

Table 2. Table of Certified Reference Materials -2011

Standard ID	Expected Au (ppm)	Std Dev Au (ppm)	Expected Cu (ppm)	Std Dev Cu (ppm)	Certification Date



CDN-CGS-23	0.218	0.018	1820	50	17-Nov-2009
CDN-GS-P4A	0.438	0.016			2-May-2011

Pulp duplicates are inserted at a 2.5 % sample frequency by the lab in every batch as part of their internal QAQC program. No additional duplicates were prepared by Gold Fields given the early stage of exploration drilling for the Eldorado Project.

Two primary metrics were used for to evaluate the acceptability of duplicate analyses, mean percent difference (MPD) and relative standard deviation (RSD). Mean percent difference is considered a good measure of precision and bias, and relative standard deviation is a good metric to compare results. Each of these methods is described below. Samples with an MPD exceeding  $\pm 20\%$  or an RSD of  $\pm 30\%$  are investigated.

A reference value of ten times the method detection limit is used for evaluating results that should be reproducible. For Au analyzed by ALS' Au-ICP-21 method with a lower detection limit (LDL) of 0.001 ppm a reference level of 0.01 ppm should be used. However, a considerable degree of fanning of the data is observed due to the strong affect of small differences on the percentage value below 0.1 ppm. This is not unexpected and does not affect the validity of the original certificate. Thus a reference value of 0.1 ppm is used to evaluate reproducible results.

**Mean Percent Difference**

$$\text{Mean Percent Difference (\%)} = \frac{100.0 \times (\text{Repeat Value} - \text{Original Value})}{(\text{Repeat Value} + \text{Original Value})/2}$$

**Relative Standard Deviation**

$$\text{RSD (\%)} = \frac{(\text{Standard Deviation}) * 100}{\text{Mean}}$$

**2.1 Drillhole Standard & Blank Performance**

The standard and blanks performance for the 2011 claim #514957 drilling was acceptable. There were no QC sample failures of the 8 blanks and 7 standards. In the plots for standard performance the Instance is sorted by Sample ID for the workorder (Figures 1 - 3).

### ELD11-03 CDN-CGS-23: Au ppm

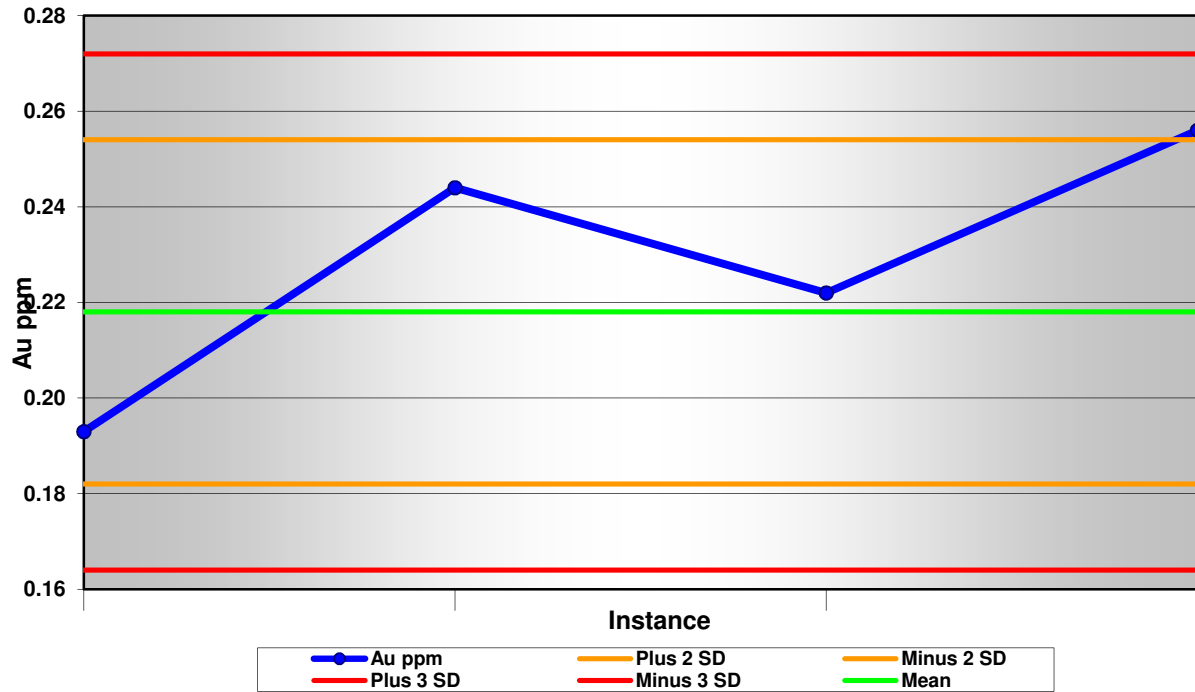


Figure 1. CDN-CGS-23 performance for Au – Drill Core

### ELD11-03 CDN-GS-P4A: Au ppm

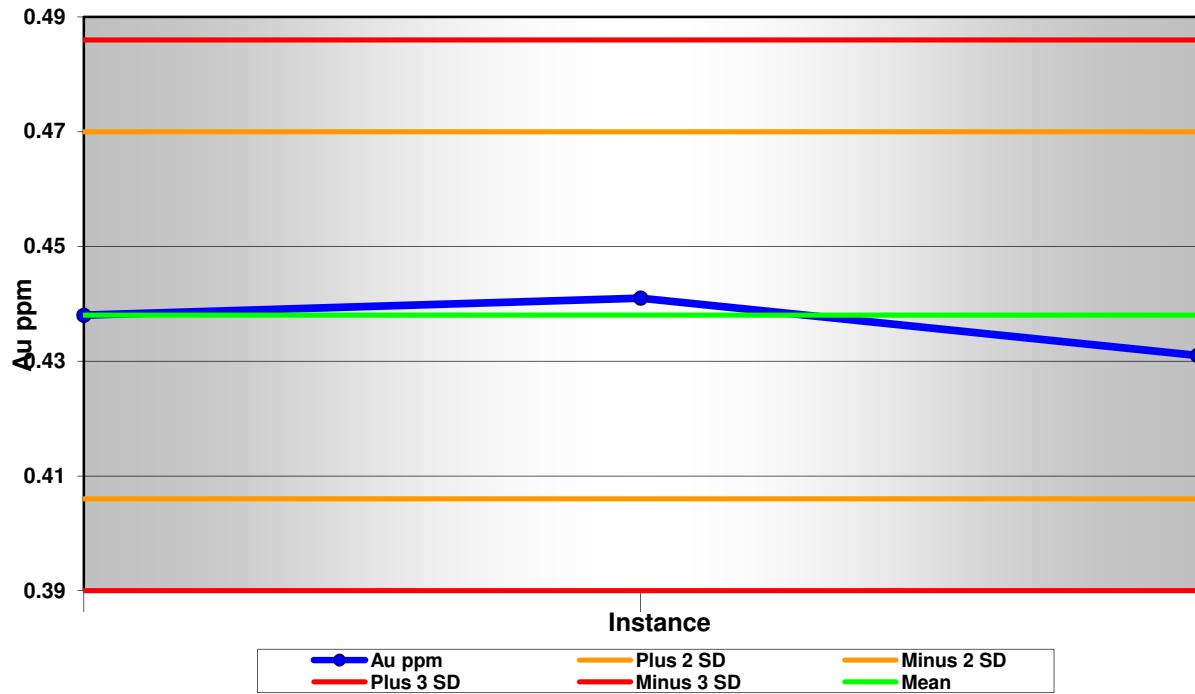


Figure 2. CDN-GS-P4A performance for Au – Drill Core

### ELD11-03 FB: Au ppm

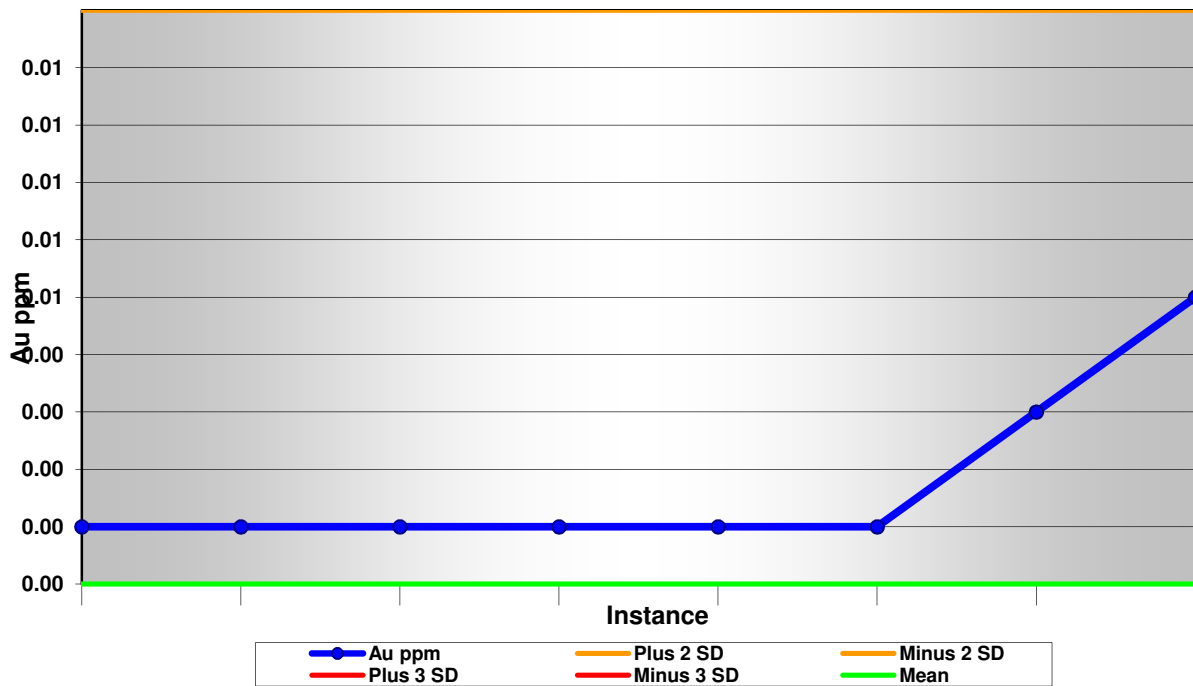


Figure 3. Field Blank performance for Au – Drill Core

## 2.2 Drillhole Duplicates

Labchecks were run as part of ALS' internal QAQC program for either Au or the multi-element geochemical method. 6 labcheck pulp duplicates were analyzed for Au. The labchecks show good agreement, although it should be noted that this is a very small dataset (Figure 4). Values sitting outside the acceptable  $\pm 20\%$  MPD are below the threshold for reproducible results (Figure 5). There are only two data points above the 0.1 ppm Au reference level but these results do show good agreement.

### ELD11-03 LABCHCK: Au ppm

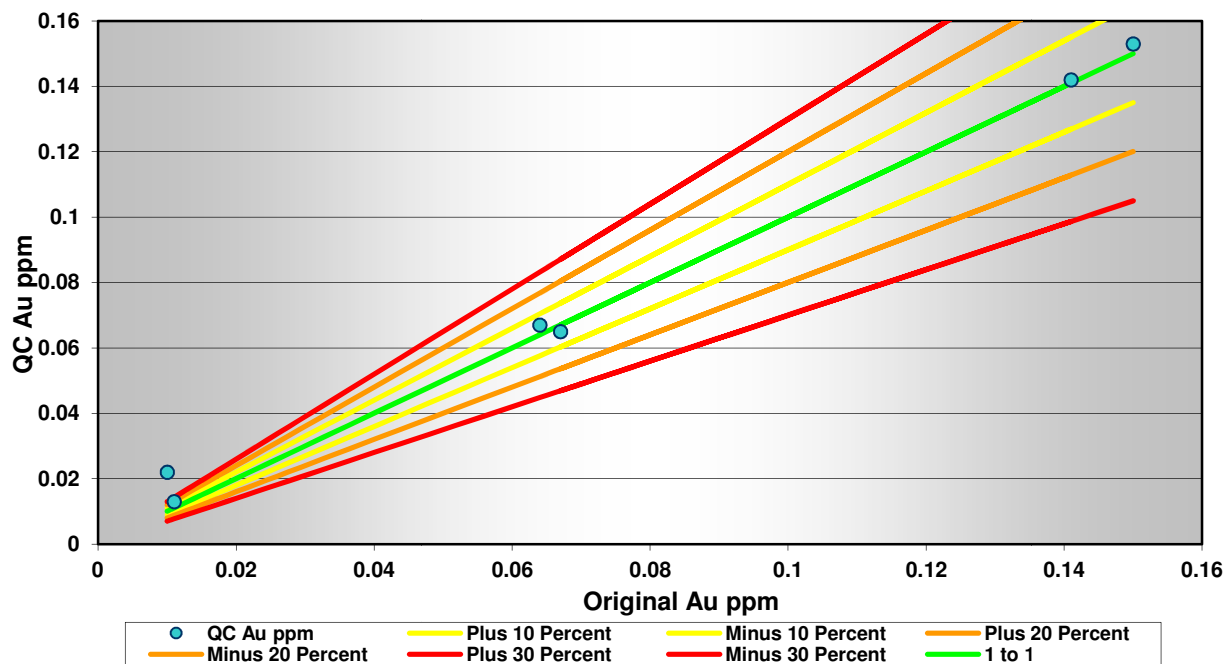


Figure 4. Original vs. Labcheck Pulp Duplicates for Au – Drill Core

### ELD11-03 LABCHCK: Au ppm

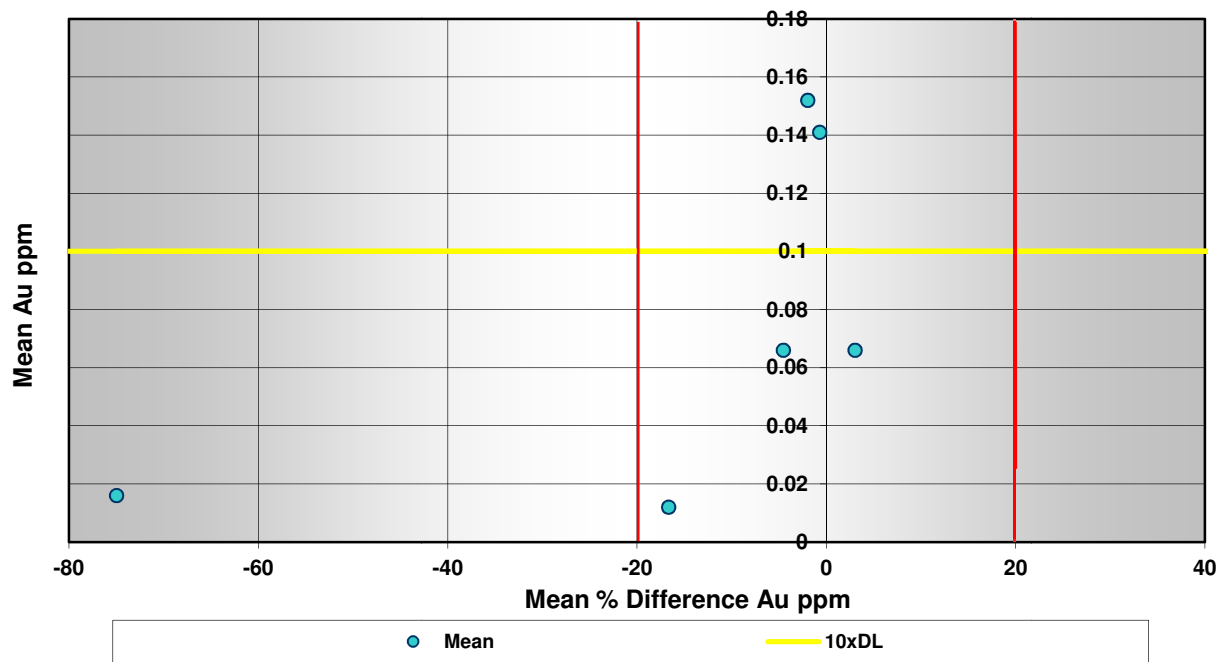


Figure 5. Mean vs. MPD for Au in Labcheck Pulp Duplicates – Drill Core

### **3.0 Certificate of Qualifications – Eleanor Black**

I, Eleanor Black (nee Alesi) of Vancouver, British Columbia, certify that:

1. I am a graduate of the University of British Columbia with a Bachelor of Science in the field of Geological Sciences in 2004.
2. I have been engaged as a Geologist continuously since August 2004 and have worked on a number of different deposit types including volcanogenic hosted massive sulphide, orogenic hydrothermal vein systems, and porphyry deposits for Gold Fields and various other junior exploration companies in British Columbia, Yukon and Nunavut, Canada.
3. I am a Geoscientist –in-Training (GIT) in good standing under the regulation of the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC).
4. I have worked on the data from the Eldorado property from April 2011 through Present, and am currently a geologist with Gold Fields Canada Exploration BV. I have not worked on this property prior to April 2011. I am responsible for QAQC procedures and results and the initial GIS compilations, with regards to the Eldorado Project;
5. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
6. I am neither a director nor officer nor do I beneficially hold a number of shares in Gold Fields Canada or its joint venture partners R Durfeld, M Steward and K Shannon; and
7. I hold no direct interest in the Eldorado property as a result of any prior involvement with the property.

Respectfully submitted this 21st day of February, 2012,

**(s) "Eleanor Black"**

---

Eleanor Black, B.Sc., GIT