2015 Assessment Report for

Geochemistry and Prospecting

November 2015

On the

Bugaboo-Reko Iron Property

Victoria Mining Division

BCGS 092C058,-59,-67,-68,-69,-70,-78,-79,-80
NTS 092C09E, 092C09W, 092C10E

UTM Zone 10N 5392000N 410000E

For
Canadian Dehua International Mines Group Inc.
and Pioneer Exploration Corporation

Report written by

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Contents

Introduction

Property location, access and physiography

The Bugaboo-Reko Iron Property ("Property") is located in the Victoria Mining Division 10 kilometres southwest of the community of Lake Cowichan, and 5 kilometres north of the community of Port Renfrew, near the southwest coast of southern Vancouver Island, BC, Canada. The Property is centred at approximately UTM Zone 10N 5390000N 405000E, midway between Lake Cowichan and Port Renfrew. The property is found on BCGS map sheets 092C058, 092C059, 092C067, 092C068, 092C069, 092C070 092C078, 092C079, 092C080, and NTS map sheets 092C09E, 092C092W, and 092C10E. The Bugaboo-Reko Iron Property is held by Canadian Dehua International Mines Group Inc. ("Dehua") (FMC 276634), and Pioneer Exploration Corporation ("Pioneer") provides services for Dehua. The property consists of 30 contiguous cell mineral claims covering 36,289 hectares, partially overlapping and/or surrounding 7 legacy claims covering 175 hectares. The property is the southern-most portion of the former Pacific Iron Property remaining after it was reduced in size earlier in 2015.

From Lake Cowichan, the paved Pacific Marine Road ("PMR") provides year round access to the Bugaboo-Reko Iron Property. Several main logging roads and their branches provide access to most parts of the property from the PMR, including Lens, Maid, Harris, Hemmingson, Granite, Braden, Gordon River, Edinburgh, Bugaboo and Grierson Main Roads. Driving time from Lake Cowichan to various parts of the property ranges from 30 minutes to 2 hours. Lake Cowichan has well-equipped including logging infrastructure, vehicle fuel and automotive services, motels, restaurants and a health clinic; and is located only 30 minutes west of Duncan, a full-service community. Port Renfrew is closer to the western portion of the Property, but has only basic services including a hotel, restaurants and a cash only gas station at the marina.

The topography of the Bugaboo-Reko Iron Property consists of rugged and steep mountain slopes up to 1150 metres in elevation drained by steep, fast flowing rivers and creeks that flow generally southwards into the west flowing San Juan River which drains into Port San Juan along the west coast. These creeks and rivers include Fairy Creek, Granite Creek, Harris Creek and Lens Creek. The Gordon River and its tributaries drain the western portion of the property directly into Port San Juan as well. The property is covered by first and second growth forest with several ages of regeneration as well as some old growth stands, and logging roads at different stages of construction and degeneration. The area of the claims is dense coastal rainforest typical of western Vancouver Island, with very heavy rain through the fall, winter and spring, some snow at low elevation and more snow at high elevations through the winter months, and moderate summers with occasional rain.

Property definition, owner, operator, geology and history

The Bugaboo-Reko Iron Property owner and operator is Canadian Dehua International Mines Group Inc., a private Canadian corporation, who began acquiring cell mineral claims on Vancouver Island in 2012 and coal licenses elsewhere in BC and Canada since 2004. In 2014 and in 2015 the author was engaged as an independent consultant by Pioneer Exploration Corporation, an independent private company providing services for Canadian Dehua International Mines Group Inc. The mineral claims of the property were acquired from Pacific Iron Ore Corp in 2013.

See Figure 1 for the mineral tenure map of the property at 1:250,000 scale, Figure 2a for the Geology map at 1:100,000 scale showing BCGS 2005 Geology, and Figure 2b for Magnetics map at 1:100,000 scale showing GSC First Vertical Derivative Aeromagnetics. These latter two figures (2a, 2b) show locations of BC MINFILE occurrences, BC ARIS reports, and BC RGS Copper and Gold anomalies on the property taken from BC MapPlace for the eastern half of the property which was the focus of the 2015 field program. These two figures (2a, 2b) also show combined remote sensing Iron Oxide, Iron Sulphide and Copper Sulphide spectra clusters taken from ARIS Report 35302 completed on the former Pacific Iron Property by Auracle Remote Sensing Inc., in collaboration with the author. The Bugaboo-Reko Iron Property consist of 30 contiguous cell mineral claims covering 36,289 hectares, partially overlapping and/or surrounding 7 legacy claims covering 175 hectares with details and status in Table 1:

Table 1 – Bugaboo-Reko Iron Property Mineral Claims and Status as of January 12, 2016:

Title Number	Claim Name	Owner	Title Type	Title Sub Type	Map Number	Issue Date	Good To Date	Status	Area (ha)
361465	GALLEON 50	276634 (100%)	Mineral	Claim	092C069	1998/feb/20	2017/jan/30	GOOD	25
370610	GALLEON 53	276634 (100%)	Mineral	Claim	092C069	1999/jul/30	2017/jan/30	GOOD	25
373716	GALLEON 57	276634 (100%)	Mineral	Claim	092C069	1999/nov/14	2017/jan/30	GOOD	25
379142	PACMIST 4	276634 (100%)	Mineral	Claim	092C069	2000/jul/23	2016/feb/05	GOOD	25
381143	JAY JAY	276634 (100%)	Mineral	Claim	092C069	2000/sep/29	2017/jan/30	GOOD	25
408828	NOSE	276634 (100%)	Mineral	Claim	092C069	2004/mar/16	2017/jan/30	GOOD	25
409241	NOSE 2	276634 (100%)	Mineral	Claim	092C069	2004/mar/24	2017/jan/30	GOOD	25
508534		276634 (100%)	Mineral	Claim	092C	2005/mar/09	2016/feb/05	GOOD	1984.778
508552		276634 (100%)	Mineral	Claim	092C	2005/mar/09	2016/feb/05	GOOD	682.423
508564		276634 (100%)	Mineral	Claim	092C	2005/mar/09	2016/feb/05	GOOD	1535.985
508572		276634 (100%)	Mineral	Claim	092C	2005/mar/09	2016/feb/05	GOOD	1129.941
508576		276634 (100%)	Mineral	Claim	092C	2005/mar/09	2020/sep/29	GOOD	640.18
508577		276634 (100%)	Mineral	Claim	092C	2005/mar/09	2020/sep/29	GOOD	1344.008
508619		276634 (100%)	Mineral	Claim	092C	2005/mar/10	2016/feb/05	GOOD	1452.035
508712		276634 (100%)	Mineral	Claim	092C	2005/mar/10	2017/jan/30	GOOD	1814.207
508714		276634 (100%)	Mineral	Claim	092C	2005/mar/10	2016/feb/05	GOOD	1003.116
508770		276634 (100%)	Mineral	Claim	092C	2005/mar/11	2016/feb/05	GOOD	597.964
846171		276634 (100%)	Mineral	Claim	092C	2011/feb/11	2016/feb/05	GOOD	1408.408
846182		276634 (100%)	Mineral	Claim	092C	2011/feb/11	2017/jan/30	GOOD	1301.287
846388		276634 (100%)	Mineral	Claim	092C	2011/feb/13	2017/jan/30	GOOD	1601.41
905329		276634 (100%)	Mineral	Claim	092C	2011/oct/05	2016/feb/05	GOOD	1046.109
905392		276634 (100%)	Mineral	Claim	092C	2011/oct/05	2020/sep/29	GOOD	1793.124
905397		276634 (100%)	Mineral	Claim	092C	2011/oct/05	2016/feb/05	GOOD	980.7291
905424		276634 (100%)	Mineral	Claim	092C	2011/oct/05	2016/feb/05	GOOD	1492.072
905426		276634 (100%)	Mineral	Claim	092C	2011/oct/05	2016/feb/05	GOOD	1598.367
905429		276634 (100%)	Mineral	Claim	092C	2011/oct/05	2016/feb/05	GOOD	1492.672
905430		276634 (100%)	Mineral	Claim	092C	2011/oct/05	2016/feb/05	GOOD	1727.204
905431		276634 (100%)	Mineral	Claim	092C	2011/oct/05	2016/feb/05	GOOD	1110.51
905432		276634 (100%)	Mineral	Claim	092C	2011/oct/05	2017/jan/30	GOOD	1408.361
905433		276634 (100%)	Mineral	Claim	092C	2011/oct/05	2017/jan/30	GOOD	1493.447
1011621		276634 (100%)	Mineral	Claim	092C	2012/aug/01	2016/feb/05	GOOD	213.2598

1012197		276634 (100%)	Mineral	Claim	092C	2012/aug/23	2016/feb/05	GOOD	618.2557
1025131		276634 (100%)	Mineral	Claim	092C	2014/jan/15	2016/feb/05	GOOD	511.793
1025133		276634 (100%)	Mineral	Claim	092C	2014/jan/15	2016/feb/05	GOOD	746.3261
1025134		276634 (100%)	Mineral	Claim	092C	2014/jan/15	2016/feb/05	GOOD	2132.224
1025135		276634 (100%)	Mineral	Claim	092C	2014/jan/15	2016/feb/05	GOOD	937.4453
1025137		276634 (100%)	Mineral	Claim	092C	2014/jan/15	2016/feb/05	GOOD	491.3487
37 Claims									**36463.99**

The Bugaboo-Reko Iron Property is underlain by the Wrangell Terrane consisting of Paleozoic to Jurassic Westcoast Crystalline Complex dioritic intrusive rocks, Middle to Upper Triassic Vancouver Group Karmutsen Formation basaltic volcanic rocks and undivided sedimentary rocks (mainly limestone), Lower Jurassic Bonanza Group calc-alkaline and volcanic rocks, and Early to Middle Jurassic Island Plutonic Suite quartz monzonitic to granodiorite intrusive rocks. Both northwest and east-west trending faults transect the property, and control the distribution and deformation of intrusive and layered rocks. The limestone bodies strike in a general northwest direction and vary in colour from white to dark grey with some altered to marble. The southern portion of the Property is dominated by the Westcoast Crystalline Complex, where limestone forms roof pendants surrounded by granodioritic to dioritic intrusive rocks. Massive iron (magnetite) skarn deposits are developed in or near the intrusives and recrystallized limestone (marble) contacts and along zones of garnet-pyroxene skarns (Xie et.al, 2013).

The following geology legend lists rocks underlying the Bugaboo-Reko Iron Property, taken from the BCGS 2005 Geology layer in BC MapPlace, which applies to Figure 2a:

Lower Jurassic

IJBca **Bonanza Group:** Calc-alkaline volcanic rocks

Middle Triassic to Upper Triassic
Vancouver Group

uTrVK **Karmutsen Formation:** Basaltic volcanic rocks

muTrVs Undivided sedimentary rocks mainly limestone

Early Jurassic to Middle Jurassic

EMJlgd **Island Plutonic Suite:** Granodioritic intrusive rocks

Paleozoic to Jurassic

PzJWg **Westcoast Crystalline Complex:** Intrusive and other rocks, undivided

The Bugaboo-Reko Iron Property covers (on claim number listed) or is immediately adjacent to 48 BC MINFILE occurrences, listed in Table 2:

Table 2 – BC MINFILE Occurrence on or near the Bugaboo-Reko Iron Property:

Name	MINFILE#	Status	Deposit Type	Commodities	On Claim
Red Dog	092C 012	Prospect	Cu Skarn, Fe Skarn	Copper, Iron, Magnetite, Silver, Zinc, Lead	
Pearson	092C 022	Dev. Prospect	Fe Skarn	Iron, Magnetite	508577
David	092C 023	Showing	Fe Skarn	Iron, Magnetite	508577
Elijah	092C 024	Showing	Fe Skarn	Iron, Magnetite	508577
Sirdar	092C 025	Dev. Prospect	Fe Skarn	Iron, Magnetite	508577
Baden Powell	092C 027	Dev. Prospect	Fe Skarn	Iron, Magnetite	508576
Rose	092C 030	Showing	Fe Skarn	Iron, Magnetite	905392
Tally	092C 031	Showing	Fe Skarn, Cu Skarn	Iron, Magnetite, Copper, Cobalt, Silver	508534
Alpha-Beta	092C 039	Past Producer	Cu Skarn, Fe Skarn	Copper, Silver, Gold, Iron	
Alfreda	092C 068	Showing	Fe Skarn, Cu Skarn	Iron, Magnetite, Gold, Silver, Copper	508770
Harris Creek	092C 085	Showing	Limestone, Marble	Limestone, Dimension Stone - Marble	1025133
Val	092C 089	Showing	Cu-Ag Qtz Vein	Copper	1025137
Reko 3	092C 090	Prospect	Fe Skarn, Cu Skarn	Iron, Copper, Magnetite, Gold, Silver	
Reko 10	092C 091	Dev. Prospect	Fe Skarn, Cu Skarn	Iron, Copper, Gold	508712
Dore 52	092C 099	Showing	Porphyry Cu-Mo-Au	Copper	1012197
Dore 162	092C 106	Showing	Cu-Ag Qtz Vein	Copper, Silver	
Reko 38	092C 110	Prospect	Fe Skarn, Cu Skarn	Magnetite, Copper, Iron	
Lizard	092C 142	Showing		Copper	905431
Reko North	092C 146	Prospect	Fe Skarn, Cu Skarn	Iron, Magnetite, Gold, Silver, Zinc, Copper	905433
Helga	092C 147	Showing	Fe Skarn	Iron, Magnetite, Copper	1025134
Baird Creek Marble	092C 157	Showing	Limestone	Limestone	508770
Hemm	092C 158	Showing	Limestone	Dimension Stone, Limestone	
Loup Creek	092C 162	Showing		Copper	1025131
Lebaron Fraction	092C 163	Showing		Copper	905433
Roc Doc	092C 164	Showing		Copper, Silver	1025135
Granite Main	092C 172	Showing		Gold, Silver, Copper	508712
Cypress	092C 173	Showing	Fe Skarn	Iron	508576
Spur E	092C 195	Showing	Cu Skarn, Fe Skarn	Silver, Copper, Iron	
Doe Lake	092C 196	Showing	Cu Skarn, Fe Skarn	Silver, Copper, Iron	
Spur 10	092C 197	Showing	Cu Skarn	Copper, Silver	1025134
Spur 1	092C 198	Showing	Cu Skarn	Copper	1025134
Lebaron 420	092C 199	Showing	Cu Skarn	Copper	1025134
Lens Creek Quarry	092C 200	Showing		Copper, Silver	508534
All the Marbles 2	092C 201	Showing		Silver, Copper, Gold	
All the Marbles 1	092C 202	Showing		Silver, Copper, Zinc, Lead	
Browns Creek	092C 219	Showing		Copper, Silver	1025137
RNR	092C 220	Showing	Fe Skarn	Iron, Magnetite, Copper	
Golden 5	092C 221	Showing	Fe Skarn, Cu Skarn	Iron, Magnetite, Silver, Copper	

Golden Fraction	092C 222	Showing		Gold, Silver, Cobalt, Copper, Iron	
Golden 5 South	092C 223	Showing	Cu Skarn	Gold, Silver, Copper, Zinc, Iron	
Creek Zone	092C 226	Showing	Cu Skarn, Fe Skarn	Copper, Iron, Magnetite, Silver	508712
GRA3500-A	092C 227	Showing	Cu Skarn	Copper	508712
GRA3500-B	092C 228	Showing	Cu Skarn, Fe Skarn	Copper, Iron, Magnetite	508712
Lorimer Creek	092C 229	Showing	Cu Skarn, Fe Skarn	Copper, Gold, Iron, Silver	905392
Mai	092C 230	Showing	Fe Skarn	Magnetite, Iron	905392
Florentia	092C 249	Showing	Pb-Zn Skarn	Zinc	
Spring	092C 250	Showing	Cu Skarn, Fe Skarn	Copper, Iron, Silver	
Golden 8	092C 251	Showing	Cu Skarn, Fe Skarn	Silver, Copper, Iron, Cobalt	

Assessment reports documenting work completed on or immediately adjacent to the Bugaboo-Reko Iron Property from 1957 to 2014 are listed in Table 3 below and summarized thereafter:

Table 3 – BC ARIS Reports for the Property area as of January 12, 2016:

Report#	Year	Authors	Owner/Operator	Work Program	MINFILE#
169	1957	Hemsworth, F.	Rosea Copper Mines	Geophysical	092C 039
3672	1972	Philp, R.H.D	Perbell Mines	Geophysical	092C 089
3849	1972	Debriske, A.L	Lucky Strike Mines	Geochemical, Geological, Geophysical	092C 079,-093,-099,-100,-101,-102,-103,-104,-106,-107
4359	1973	Holcapek, F.	Perbell Mines	Geochemical	092C 089
4468	1973		New Cosmic Ind.	Physical	092C 104
4792	1973	Gutrath, G.C.;Neilsen, P.	New Cosmic Ind.	Geochemical, Geological, Geophysical, Physical	092C 079,-093,-099,-100,-101,-102,-103,-104,-106,-107
4940	1974	McGoran, J.P.	Perbell Mines	Geochemical, Geological	092C 089
4941	1973	Dyakowski, A.	Perbell Mines	Geochemical, Prospecting	092C 089
5029	1973	Roscoe, R.L.	Reako Ex.	Drilling	092C 090,-091,-110,-146
6380	1976	McEwan, T.	McEwan, T. & Assoc.	Physical	092C 012,-147
6502	1977	Saleken, L.W.	Western Mines	Geochemical, Geological, Geophysical	092C 012,-147
8209	1980	Crooker, G.F.	Sonar Energy Corporation	Geochemical, Geological	092C 149
8278	1979	Tavela, M.	Tavela, M.	Geochemical, Geological, Geophysical	092C 141
8679	1980	Pauwels, A.M.	Union Miniere Expl. & Mining Corp. Ltd.	Geophysical	092C 079,-093,-099,-100,-101,-102,-103,-104,-106,-107
8943	1980	Murphy, D.W.	Murphy, D.W.	Geochemical, Prospecting	092C 068
9856	1981	Crooker, G.F.	Strata Energy Corporation	Geochemical, Geological	092C 149
12184	1984	White, G.E.; Pezzot, E.T.	Pan Island Resources Corp.	Geophysical	092C 089
12743	1984	Decker, J.	Beau Pre Explorations Ltd.	Geochemical, Prospecting	092C 012,-147
12885	1984	Tavela, M.	Tavela, M.	Geochemical, Geological, Geophysical	092C 141

14564	1985	Bell. M	Pan Island Resources Corp.	Geochemical	
14565	1985	Grove, E.W.	Beau Pre Explorations Ltd.	Geochemical, Prospecting	092C 012,-147
14686	1986	Smallwood, A.	Pan Island Resources Corp.	Geochemical	092C 142
14968	1986	Smallwood, A.	Pan Island Resources Corp.	Geochemical, Geological	092C 142
15111	1986	Crooker, G.F.	Strata Energy Corporation	Geophysical, Physical	092C 149
15262	1986	Demczuk, L.	Pan Island Resources Corp.	Geochemical, Geological, Physical	092C 089
15295	1986	Peatfield, G.R.	Beau Pre Explorations Ltd.	Geochemical, Geological	092C 012,-147
16184	1987	Garratt, G.L.	Beau Pre Explorations Ltd.	Geochemical, Geological, Physical	092C 012,-147
18047	1988	Tavela, M.	Tavela, M.	Geochemical, Geological	092C 143
18174	1988	Allen, G.J.	Beau Pre Explorations Ltd.	Geochemical, Geological	092C 012,-147
19032	1989	Crooker, G.F.	U.S. Platinum Inc.	Geophysical, Physical	092C 149
19647	1989	Tavela, M.	Tavela, M.	Geochemical, Geological, Geophysical, Physical	092C 143
20875	1990	Audet, A.J.	Nichelson, J./ Breakwater Resources Ltd.	Geochemical	092C 147
23939	1995	Shearer, J.T.	Stathis, P.; Sawyer, L./Van City Cultured Marble Products Ltd.	Prospecting	092C 157
25877	1999	Newman, T.E.	Pearson, G.M./Imperial Limestone	Geological	
26093	1999	Henneberry, R.T.	Henneberry, R.T./Mammoth Geological Ltd.	Prospecting	092C 158
26464	2000	Henneberry, R.T.	Henneberry, R.T./Mammoth Geological Ltd.	Geological	092C 158
27081	2003	Henneberry, R.T.	Henneberry, R.T./Southern Pacific Development Corp.	Geochemical, Geological	092C 158
27246	2003	Gilmour, W.R.; McKinley, S.D.	Pearson, G.M.;Emerald Fields Resource Corp./Emerald Fields Resource Corp.	Geochemical, Geological, Geophysical	092C 022,-023,-025,-027,-030,-090,-091,-110,-146,-229,-230
27280	2003	Gilmour, W.R.; McKinley, S.D.	Pearson, G.M.;Emerald Fields Resource Corp./Emerald Fields Resource Corp.	Geochemical	092C 172
27517	2004	Mowatt, A.	Pearson, G.M.;Emerald Fields Resource Corp./Emerald Fields Resource Corp.	Drilling, Geochemical, Geological, Physical	092C 110,229,-230
27856	2005	Phillips, S.L.B.D.	Phillips, S.L.B.D.; Phillips, S.M.; Morris, R.H.; Morris, B.J.	Prospecting	092C 200,-202
27859	2005	Phillips, S.L.B.D.	Phillips, S.L.B.D.; Phillips, S.M.; Morris, R.H.; Morris, B.J.	Prospecting	092C 200,-202
27971	2005	Phillips, S.L.B.D.	Phillips, S.L.B.D.	Prospecting	
28059	2005	Owsiacki, G.	Pearson, G.M.;Emerald Fields Resource Corp./Emerald Fields Resource Corp.	Drilling, Geochemical, Physical	092C 022,-023,-025,-027,-030,-090,-091,-110,-146,-229,-230
28108	2006	Phillips, S.L.B.D.	Phillips, S.L.B.D.	Prospecting	092C 085
28347	2006	Phillips, S.L.B.D.	Rooke, N.H.; Oshust, R.J.;Rooke, R.N.C.;Haugen, H.M.;Wedler, A.D./Rooke, N.H.;Oshurt, R.J.	Prospecting	092C 090,-091,-110,-146,-158

28348	2005	Phillips, S.L.B.D.	Rooke, N.H.; Oshust, R.J.; Raymond, J.; Anderson, C.L.	Prospecting	092C 173
28478	2006	Phillips, S.L.B.D.	Phillips, S.L.B.D.	Prospecting	092C 085
28488	2006	Phillips, S.L.B.D.	Phillips, S.L.B.D.; Phillips, S.M.; Morris, R.H.; Morris, B.J./Phillips, S.L.B.D.	Prospecting	092C 200,-202
28508	2006	La Baron Prospecting; Phillips, S.L.B.D.	Rooke, N.H.; Oshust, R.J.	Prospecting	092C 106
28572	2006	Phillips, S.L.B.D.	Phillips, S.L.B.D.	Prospecting	092C 163
28583	2006	Herriott, D.; Brouwer, D.A.	Herriott, D.; Brouwer, D.A.	Geochemical, Prospecting	092C 036,-039,-040,-041,-149
28668	2006	Phillips, S.L.B.D.	Phillips, S.L.B.D.	Geochemical, Prospecting	092C 012,-147,-195,-196,-197,-199,-201
28715	2006	Sumara, M.	Emerald Field Resource Corp.	Geophysical	092C 012,-022,-023,-024, -025,-027,-030,-031,-068,-079,-085,-090,-091,-093,-099,-100,-101,-102,-103,-104,-106,-107,-110,-141,-142,-146,-147,-157,-158
29028	2007	La Baron Prospecting	Rooke, N.H.; Oshust, R.J.; Raymond, J.; Saunders, G.S.	Prospecting	092C 090,-091,-110,-146,-158
29291	2007	Phillips, S.L.B.D.	Phillip, S.L.B.D.;Morris, R.H./Phillip, S.L.B.D.	Prospecting	092C 089,-147
29292	2007	Phillips, S.L.B.D.	Phillips, S.L.B.D.; Phillips, S.M.; Morris, R.H.; Morris, B.J.	Prospecting	
29293	2007	Phillips, S.L.B.D.	Oshust, R.J.; Saunders, G.S.; Rooke, M.A./Saunders, G.S.	Prospecting	092C 030,-099,-100,-101,-102,-225
29317	2007	Phillips, S.L.B.D.	Phillips, S.L.B.D.; P Morris, R.H.	Prospecting	
29543	2007	Phillips, S.L.B.D.	Phillips, S.L.B.D.; Phillips, S.M.; Morris, R.H.; Morris, B.J./Phillips, S.L.B.D.	Geochemical, Physical	092C 012,-147,-195,-196,-197,-199,-201
29878	2008	Phillips, S.L.B.D.	Phillips, S.L.B.D.	Prospecting	092C 085
30019	2008	Phillips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Saunders, G.S.; Rooke M.A./Saunders, G.S.; Rooke, N.M.	Prospecting	092C 220,-221,-222,-223
30220	2008	Buddick, V.	Buddick, V.	Geological	
30221	2008	Buddick, V.	Buddick, V.	Geological	
30222	2008	Buddick, V.	Buddick, V.	Geological	
30337	2008	Soltanzadeh, A.H.; Payie, G.J.	Emerald Field Resource Corp.	Geophysical	092C 022,-023,-025,-027,-030,-090,-091,-110,-146,-229,-230
30394	2008	Payie, G.J.; Norris, T.	Emerald Field Resource Corp./Pacific Iron Resource Corporation	Geochemical, Geophysical	092C 022,-023,-025,-027,-030,-031,-089,-090,-091,-110,-124,-141,-142,-146,-152,-158,-229,-230
30511	2008	Phillips, S.L.B.D.	Phillips, S.L.B.D.; P Morris, R.H.	Geochemical, Prospecting	092C 219
30512	2008	Phillips, S.L.B.D.	Phillips, S.L.B.D.; Phillips, S.M.; Morris, R.H.; Morris, B.J./Phillips, S.L.B.D.	Prospecting	
30513	2008	Phillips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Rooke M.A./Oshust, R.J.	Geochemical, Prospecting	092C 085,-90,-106,-158
30514	2008	Phillips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Saunders, G.S.; Rooke M.A./Saunders, G.S.	Prospecting	092C 024,-030,-099,-100,-101,-102,-225
30515	2008	Phillips, S.L.B.D.	Phillip, S.L.B.D.;Morris, R.H./Phillip, S.L.B.D.	Prospecting	092C 024,-099,-100,-101,-102,-225

30516	2008	Phillips, S.L.B.D.	Phillip, S.L.B.D.;Morris, R.H./Phillip, S.L.B.D.	Geochemical, Prospecting	092C 162
30517	2008	Phillips, S.L.B.D.	Phillip, S.L.B.D.;Morris, R.H./Phillip, S.L.B.D.	Prospecting	092C 012,-147,-195,-196,-197,-199,-201
30518	2008	Phillips, S.L.B.D.	Phillips, S.L.B.D.	Geochemical, Prospecting	092C 085
30519	2008	Phillips, S.L.B.D.	Phillips, S.L.B.D.	Prospecting	
30640	2009	Payie, G.J.; Norris, T.	Pearson, G.M.;Emerald Fields Resource Corp./Pacific Iron Ore Corporation	Drilling, Geochemical	092C 022,-023,-025,-027,-030,-090,-091,-110,-146,-229,-230
30643	2009	Phillips, S.L.B.D.	Phillips, S.L.B.D.; Phillips, S.M.; Morris, R.H.; Morris, B.J./Phillips, S.L.B.D.	Prospecting	092C 012,-147,-195,-196,-197,-199,-201
30697	2008	Phillips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Rooke M.A./Phillips, S.L.B.D.	Prospecting	092C 163
30705	2009	Arbic, D.M.	Arbic, D.M.	Geochemical	092C 039
30879	2008	Phillips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Saunders, G.S.; Rooke M.A./ Phillips, S.L.B.D.	Prospecting	092C 090,-091,-110,-146,-158
30889	2008	Phillips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Saunders, G.S.; Rooke M.A./Saunders, G.S.	Prospecting	092C 173
30915	2008	Phillips, S.L.B.D.	Phillips, S.L.B.D.	Prospecting	092C 222
30916	2008	Phillips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Saunders, G.S./Saunders, G.S.	Prospecting	
30919	2008	Phillips, S.L.B.D.	Phillips, S.L.B.D.	Prospecting	092C 085
30923	2008	Phillips, S.L.B.D.	Scott, J.G.; Scott, P.L.B.D./Scott, J.G.	Prospecting	092C 164
31260	2009	Sebert, C.; Payie, G.J.; Norris, T.; Larocque, J.	Pacific Iron Ore Corporation	Geochemical, Geological, Geophysical	092C 022,-023,-024,-025,-027,-030,-090,-091,-110,-146,-229,-230
31274	2009	Phillips, S.L.B.D.	Phillip, S.L.B.D.;Morris, R.H./Phillip, S.L.B.D.	Prospecting	092C 012,-147,-195,-196,-197,-199,-201
31291	2009	Phillips, S.L.B.D.	Phillips, S.L.B.D.; P Morris, R.H.; Oshust, R.J.; Saunders, G.S.; Rooke, M.A./Phillips, S.L.B.D.	Prospecting	092C 024,-093,-099,-100,-101,-102,-225
31347	2009	Phillips, S.L.B.D.	Phillips, S.L.B.D.; Phillips, S.M.; Morris, R.H.; Morris, B.J./Phillips, S.L.B.D.	Geochemical	092C 200,-202
31349	2009	Phillips, S.L.B.D.	Phillip, S.L.B.D.;Morris, R.H./Phillip, S.L.B.D.	Prospecting	092C 162
31352	2009	Phillips, S.L.B.D.	Phillip, S.L.B.D.;Morris, R.H./Phillip, S.L.B.D.	Prospecting	092C 219
31490	2010	Phillips, S.L.B.D.	Phillips, S.L.B.D.; Phillips, S.M.; Morris, R.H.; Morris, B.J./Phillips, S.L.B.D.	Geochemical	092C 012,-147,-195,-196,-197,-199,-201
31531	2010	Sebert, C.; Payie, G.J.; Norris, T.	Pacific Iron Ore Corporation	Drilling, Geochemical	092C 022,-023,-025,-027,-030,-090,-091,-110,-146,-229,-230
31897	2010	Phillips, S.L.B.D.	Phillip, S.L.B.D.; Saunders G.S.	Geochemical	092C 200,-202
31901	2010	Phillips, S.L.B.D.	Scott, J.G.; Scott, P.L.B.D./Phillips, S.L.B.D.	Geochemical, Physical, Prospecting	092C 036,-039,-041,149,-164

32175	2011	Norris, T.	Pacific Iron Ore Corporation	Drilling, Geochemical	092C 022,-023,-024,-025,-027,-030,-229,-230
32286	2011	Arbic, D.M.	Arbic, D.M.	Geochemical	092C 039,-041,-149
32323	2010	Phillips, S.L.B.D.	Phillips, S.L.B.D.	Prospecting	092C 085
32354	2010	Phillips, S.L.B.D.	Morris, R.J.; Phillips, S.L.B.D.; Phillips, S.M.; Morris, B.J.; Saunders, G.S./Phillips, S.L.B.D.	Prospecting	
32973	2012	Norris, T.	Pacific Iron Ore Corporation	Drilling, Geochemical	092C 022,-023,-024,-025,-027,-030,-229,-230
33022	2010	Phillips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Saunders, G.S.; Rooke M.A. McDiarmid, G.S./Saunders, G.S.	Geochemical	092C 141,-220,-221,-222,-223
33124	2010	Phillips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Rooke M.A./Phillips, S.L.B.D.	Prospecting	092C 106,-162
33125	2010	Phillips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Rooke M.A./Phillips, S.L.B.D.	Prospecting	
33230	2011	Phillips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Saunders, G.S./Phillips, S.L.B.D.	Under Review	
33863	2013	Arbic, D.M.	Arbic, D.M.	Geochemical	092C 036,-039,-041,-149
33922	2011	Phillips, S.L.B.D.	Phillips, S.L.B.D.; Phillips, S.M.; Morris, R.H.; Morris, B.J./Phillips, S.L.B.D.; Morris, R.H.; Morris, B.J.	Geochemical, Prospecting	
33923	2012	Phillips, S.L.B.D.	Phillips, S.L.B.D.; Phillips, S.M.; Morris, R.H.; Morris, B.J./Phillips, S.L.B.D.; Phillips, S.M.; Morris, R.H.	Geochemical, Prospecting	
34064	2012	Phillips, S.L.B.D.	Phillips, S.L.B.D.	Prospecting	092C 022
34065	2012	Phillips, S.L.B.D.	Phillips, S.L.B.D.	Prospecting	
34077	2012	Phillips, S.L.B.D.	Phillips, S.L.B.D.	Prospecting	
34256	2013	Arbic, D.M.	Arbic, D.M.	Prospecting, Geochemical	
34296	2013	Phillips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Rooke M.A./Phillips, S.L.B.D.	Geochemical	092C 106
34383	2013	Phillips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Saunders, G.S.; Rooke M.A./ Phillips, S.L.B.D.	Geochemical, Physical	092C 220
34612	2014	Li, V., Xie, R.	Canadian Dehua International Mines Group Inc.	Geochemical, Metallurgical	092C 022,-023,-024,-025,-027,-030,-031,-055,-056,-062-068,-079,-085,-089,-091,-097,-099,-107,-130,-142,-147,-157,-162,-163,-164,-172,-173,-197,-198,-199,-200,-219,-226,-227,-228,-230-252,-253,092F381,-400,-409,-410,-459,-460
34699	2014	Philips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Saunders, G.S.; Rooke M.A./ Phillips, S.L.B.D.	Geochemical	092C 251
34926	2014	Philips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Rooke M.A./Phillips, S.L.B.D.	Prospecting, Geochemical	092C 090,-091,-110,-141,-146,-158
34945	2014	Houle, J, Huang, R., Koning, M., Zhou, V.	Canadian Dehua International Mines Group Inc.	Geological, Geochemical, Geophysical	092C 022,-023,-024,-025,-027,-030,-031,-055,-056,-062-068,-079,-085,-089,-091,-097,-099,-107,-130,-142,-147,-157,-162,-163,-164,-172,-173,-197,-198,-199,-200,-219,-226,-227,-228,-230-252,-253,092F381,-400,-409,-410,-459,-460

34959	2014	Philips, S.L.B.D.	Phillip, S.L.B.D.; Oshust, R.J.; Saunders, G.S.; Rooke M.A./ Phillips, S.L.B.D.	Geochemical	092C 220
35036	2014	Philips, S.L.B.D.	Philips, S.L.B.D., Morris, R.H.	Prospecting, Geochemical	092C 012

In 1957 Rosea Copper Mines completed a ground magnetic survey on the Stella 1-4 claims covering the Alpha-Beta past producer. Results of the survey indicate two anomalies with the highest reading recorded at 1320 gammas.

In 1972 Perbell Mines completed ground magnetics on the Caty, Ed, Sue and Val claims covering the Val showing. The survey found a general contour trend west to west-northwest and a small but intense magnetic low in the northwest portion of the surveyed area.

In 1972 Lucky Strike Mines completed soil geochemistry, geological mapping and ground magnetics on the CW and LG claims covering the Nan, Dore 30, 52, 97, 99 and 162, TL5798, Polly, DL, and Harris showings. It was found the property has a geological environment that was common to several producing and past producing mines that developed ore bodies of a pyrometasomatic nature with Fe and Cu mineralization commonly associated with skarn at many volcanic-limestone contacts on the property. Soils yielded results up to >1000 ppm Cu.

In 1973 Perbell Mines completed soil geochemistry on the Caty and Val claims covering the Val showing. Soils yielded values up to 162 ppm Cu.

In 1973 New Cosmic Ind. completed line cutting on the DL claim covering the Dl showing.

In 1973 New Cosmic Ind. completed silt and soil geochemistry, geological mapping and ground magnetics on the DL claims covering the Nan, Dore 30, 52, 97, 99 and 162, TL5798, Polly, DL, and Harris showings. Soils yielded up to 175 ppm Cu. The magnetometer failed to detect any areas of economic interest on the grid area. While areas of minor copper mineralization on the grid none were of economic interest.

In 1974 Perbell Mines completed rock geochemistry and geological mapping on the Caty, Ed, Sue and Val claims covering the Val showing. Rocks yielded values up to 0.003 oz/t Au and 0.01 oz/t Ag.

In 1973 Perbell Mines completed soil geochemistry and prospecting on the Caty, Ed, Sue and Val claims covering the Val showing. Results were considered inclusive.

In 1973 Reako Exploration completed drilling on the Kestrel and Reko claims covering the Reko 3, 10 and 38 and Reko North showings. A total of 2455 ft. of BQ hole was drilled with no results reported.
In 1976 T. McEwen completed line cutting on the Victor claims covering the Red Dog prospect and Helga showing.

In 1977 Western Mines completed rock, silt and soil geochemistry, geological mapping and ground magnetics on the Conquest and Victor claims covering the Red Dog prospect and Helga showing. Samples yielded values up to 470 ppm Cu, 370 ppm Zn. A skarn zone selectively sampled yielded values of 1.71% Cu, 0.3 oz/t Ag and 0.001 oz/t Au. It was concluded the property had no economic value.

In 1980 Sonar Energy Corporation completed rock and soil geochemistry and geological mapping on the Maxi, Maxi #1 and Maxi #2 claims covering the Roach showing. The Hillcrest showing rocks yielded values up to 2.18% Cu and 0.18 oz/t Ag and soils yielded values up to 334 ppm Cu. The Anomaly showing rocks yielded values up to 2.46% Cu and 0.58 oz/t Ag and soils yielded values up to 990 ppm Cu and >200 ppm Zn. The Roach showing rocks yielded values up to 0.23% Cu. The Arrow showing yielded values up to 1010 ppm Cu.

In 1979 Matti Tavela completed rock and soil geochemistry, geological mapping, petrographic analysis and a geophysical self-potential survey on the Ebb claim covering the Ebb showing. Rocks yielded values up to 10,000 ppm Cu, 6600 ppm Ni and 1220 ppm Co. Sediments and soils yielded values up to 217 ppm Cu, 700 ppm Ni and 66 ppm Co. Bases on microscopic observations there are 5 types of ore, disseminated oxide bearing and partly serpentinized ultramafic rock, copper and nickel bearing pyrrhotite-predominate ore in mafic rocks, cobalt and nickel bearing iron sulphide ore, weathered magnetite-pyrite pyrrhotite ore and weathered pyrite pyrrhotite ore in epidote skarn.

In 1980 Union Miniere Expl. & Mining Corp. Ltd. completed ground magnetics on the Bolduc claims covering the Nan, Dore 30, 52, 97, 99 and 162, TL5798, Polly, DL, and Harris showings. The ground magnetic clearly outlined areas of skarn with magnetite with values up to 37,000 gammas.

In 1980 David Murphy completed rock and soil geochemistry and prospecting on the Albany, Baird, Shadow and Shadow Fr. claims covering the Alfreda showing. Soils yielded values up to 84 ppm Cu, 0.1 ppm Ag, 45 ppm As and 180 ppb Au. Rocks yielded values up to 0.6 ppm Ag and 100 ppb Au.

In 1981 Strata Energy Corporation completed soil geochemistry and geological mapping on the Maxi claims covering the Roach showing. No additional mineralization was found.

In 1984, Pan Island Resource Corp. completed airborne VLF-EM and magnetics on the Midas Project covering much of what is now the Bugaboo-Reko Iron Property. Several EM and magnetic anomalies were identified, for which ground follow up work was recommended.

In 1984 Beau Pre Explorations Ltd. completed rock and soil geochemistry and prospecting on the FRS and Helga claims covering the Red Dog prospect and Helga showing. Rocks yielded values up to 0.011 oz/t Au, 0.3 oz/t Ag and 17.4% Cu. Soils yielded values up to 740 ppm Cu, 10 ppb Au and 3.7% Fe.

In 1984 Matti Tavela completed rock and soil geochemistry, geological mapping and ground magnetics on the Ebb claims covering the Ebb showing. Rock results had a lack of base and precious metals, all below background, except consistently high levels from 50-4,000 ppb Hg and 10-50 ppb Au. Soil values were all below 5 ppb Au. The main magnetic anomaly is 200 m. long and located above the 1400 gamma background and peaks at 5,000 gammas.

In 1985 Pan Island Resource Corp. completed rock, silt and soil geochemistry on the Jane 1-2, Kuitshe, Midas 1-4, Murton, Nine, Pachena, Pork and Yauh claims. Soils yielded values up to 1340 ppm As, 207 ppm Cu, 129 ppm Ni, 24 ppm Pb, 524 ppm Zn.

In 1985 Beau Pre Explorations Ltd. completed rock geochemistry and prospecting on the FRS 1 claim covering the Red Dog prospect and Helga showing. One new skarn was found yielding values up to 21.66% Fe.

In 1984 and 1985 Pan Island Resource Corp. completed rock, silt, heavy minerals and soil geochemistry on the Fairy 1-4, Lizard 1-4, Midas 1 and Renfrew 1-3 claims covering the Lizard showing. Soils yielded values up to 1.7 ppm Ag, 102 ppm As, 422 ppm Cu, 9.28% Fe, 518 ppm Pb, 284 ppm Zn and 20 ppb Au. Rocks yielded values up to 46 ppm 0.2 ppm Ag, 15 ppb Au and 2 ppm As. Silts yielded values up to 0.2 ppm Ag, 10 ppb Au and 60 ppm As. Heavy mineral concentrates yielded values up to 0.3 ppm Ag and 25 ppb Au.

In 1985 Pan Island Resource Corp completed rock, silt and soil geochemistry and geological mapping on the Lizard 1-3 and Renfrew 3 claims covering the Lizard showing. Soils yielded values up to 20 ppb Au and 15 ppm As. Rocks returned no anomalous values.

In 1986 Strata Energy Corporation completed a VLF-EM geophysical survey and ground magnetics on the Maxi claims covering the Roach showing. The magnetometer survey indicated several magnetic highs associated with the contact of basalt and granodiorite. The VLF-EM survey indicated several weak, north trending electromagnetic conductors coincidental with mag highs. The coincidental mag highs and electro-magnetic conductors may indicate skarn mineralization.

In 1986 Pan Island Resource Corp completed rock, silt, heavy mineral and soil geochemistry and geological mapping on the Midas 1-2, Murton and Pachena claims covering the Val showing. Rocks yielded values up to 3200 ppm As and 190 ppb Au. Soils yielded values up to 1200 ppm As and 90 ppb Au. Silts yielded values up to 700 ppm As and 140 ppb Au.

In 1986 Beau Pre Explorations Ltd. completed rock and soil geochemistry and geological mapping on the F.R.S. 1 and Helga 1 claims covering the Red Dog prospect and Helga showing. Rocks yielded values up to 12.03% Cu, 0.06% Zn, 0.32 oz/t Ag and 0.001 oz/t Au. Soil results were not reported.

In 1987 Beau Pre Explorations Ltd. completed rock and soil geochemistry on the F.R.S. 1 and Helga 1 claims covering the Red Dog prospect and Helga showing. The mapping program resulted in the discovery of four weakly mineralized skarn zones, two of which appear to be structurally truncated. Soils yielded values up to 1.9 ppm Ag, 212 ppm Cu, 90260 ppm Fe and 53 ppb Au. Rocks yielded values up to 10.4 ppm Ag, 303690 ppm (30.369%) Fe and 48 ppm Au.

In 1988 Matti Tavela completed rock geochemistry and geological mapping on the Rat 1-2 and Rat 4-5 claims covering the Rat showing. Rocks yielded values up to >5000 ppb Hg and 600 ppb Au.

In 1988 Beau Pre Explorations Ltd. completed rock, silt and heavy mineral geochemistry on the F.R.S. 1 and Helga 1 claims covering the Red Dog prospect and Helga showing. Stream sediments yielded values up to 66 ppb Au and 191 ppm Cu. Rocks yielded values up to 403 ppb Au, 23.5 ppm Ag, 13.2% Cu, and 1123 ppm Zn.

In 1989 U.S. Platinum Inc. completed a VLF-EM geophysical survey and ground magnetics on the Maxi claims covering the Roach showing. Four target areas were outlined by the surveys. Target A at the Hillcrest showing possibly indicating skarn mineralization, target B at the Anomaly showing possibly indicating skarn mineralization and target C in an area where no mineralization is exposed.

In 1989 Matti Tavela completed rock geochemistry, geological mapping and ground magnetics on the Rat 6 claim covering the Rat showing. Rocks yielded values up to 380 ppb Au. Mapping and prospecting was concentrated on the 30-140 wide Camper Creek bed. The magnetic survey confirmed with the aeromagnetic ultimate nadir that the area takes its shape and intensity from a deep-seated intrusion of diorite and its parents in depth.

In 1990 Breakwater Resources Ltd. completed soil geochemistry on the Doe 1-2 claims covering the Helga showing. Soils yielded values up to 30 ppm As, 731 ppm Cu and 6.83 ppm Fe.

In 1995 Van City Cultured Marble Products Ltd. completed prospecting on the Marble 1-7, Renfrew 1-6, and Gordon River 1 claims covering the Baird Creek Marble showing. It found good potential for large tonnages of white marble with zones in excess of 4 million tonnes contained in a single unit. Initial sample results yielded a brightness of 92.54% with low SiO_2 and MgO content.

In 1999 Imperial Limestone completed geological mapping on the Galleon 8, 8 1-4 and Galleon 50 claims. The limestone deposits, Edinburgh and Granite Mainline, are Quatsino limestone metamorphosed to a white crystalline marble. Both deposits have minable reserves thought to be in the millions of tonnes.

In 1999 Mammoth Geological Ltd. completed prospecting on the Hemm 1-4 claims covering the Hemm showing. The property was staked as a possible source for fillers and extenders, aggregate and coarse rip rap.

In 2000 Mammoth Geological Ltd. completed geological mapping on the Hemm 1-4 claims covering the Hemm showing. The outlined the areas of andesite and limestone outcrops.

In 2003 Southern Pacific Development Corp. completed geochemistry and geological mapping on the Hemm 1-4 claims covering the Hemm showing. Five samples tested yielded results of 49.82%-55.41% CaO, 0.46%-5.54% MgO, 42.21%-43.33% LOI, 0.4%-1.12% SiO_2, 0.01%-0.27% R_2O_3 and 88.82%-98.9% $CaCO_3$ with brightness from 84%-87.6%.
In 2003 Emerald Fields Resource Corp. completed heavy mineral, moss mat (silt) and rock geochemistry, geological mapping and petrographic analysis and an electromagnetic and magnetic ground survey on the Galleon 53-80, Abbey, Coho 2-6, Jack 2, Ran 1-16 and Bingo claims covering the Pearson, Sirdar, Baden Powell and Reko 10 developed prospects, Reko 3, Reko 38 and Reko North prospects, and David, Rose, Lorimer Creek and Mai showings. The main target of the project was to find Ni-Cu-PGE mineralization. Mapping failed to find any evidence and that most of the semi-massive-massive sulphides are skarn related. Stream sampling found no significant PGE mineralization but streams on the Karen were significantly anomalous in Au and Cu. Heavy minerals yielded values up to 509.41 ppm Cu, 22375.7 ppb Au, 3665 ppm Ag, 36.55 ppm Pb, 92.5 ppm Zn and 10.23% Fe. Silts yielded values up to 126.23 ppm Cu, 42.5 ppb Au, 80 ppb Ag, 6.08 ppm Pb, 109.7 ppm Zn and 8.06% Fe. Rocks yielded values up to 0.53 ppm Au, 11.8 ppm Ag, 355 ppm As, >10,000 ppm Cu, >25% Fe, 12 ppm Pb and 387 ppm Zn. It was found that the magnetometer survey might be a method to trace known sulphide zones and to delineate targets where outcrop is scarce.

In 2003 Emerald Field Resource Corp. completed heavy mineral and silt geochemistry on the Karen 1-5 claims covering the Granite Main showing. Streams on the Karen were significantly anomalous in Au and Cu. Assay results for the Pearson Property (see above) and the Karen property are mixed.

In 2004 Emerald Fields completed drilling, geochemical sampling, geological mapping and trenching on the Karen 1-5, Galleon 53 and Ran claims covering the Reko 38 prospect and the Lorimer Creek and Mai showings. Mechanical stripping and washing was performed on the Reko (Pope's Nose) and Ebb showings. Drilling was done on the Pope's Nose showing (holes 1-4), on the Ran claim to test an old Reako Ex. (hole 5) and under Reako's trench (massive magnetite) (hole 6) and tested Matti Tavela's Ebb showing (hole 7) on Fairy Creek. Assays yielded values up to 34% Fe, 7860 ppm Cu, 1.4 ppm Ag, 0.06 ppm Au, 32 ppm Pb and 1225 ppm Zn.

In 2005 Scott Phillips completed prospecting on the 509082 (Le Baron 8) claim. The claim was staked as it lies in the middle of a proposed open pit mine. Rocks yielded values up to <0.5 ppm Au, 6 ppm Ag, 93 ppm Cu, 11 ppm Pb and 25 ppm Pb.

In 2005 Scott and Shelly Phillips and Robert and Betty Morris completed prospecting on the All the Marbles 2 claim covering the Lens Creek Quarry and All the Marbles 1 showing. Moss mat and rock chip samples were collected but no results reported.

In 2005 Scott and Shelly Phillips and Robert and Betty Morris completed prospecting on the All the Marbles claim covering the Lens Creek Quarry and All the Marbles 1 showing. Rock chip and moss mat samples were collected, but no results reported.

In 2005 Emerald Fields Resource Corp. completed diamond drilling, geochemistry and road building on the Galleon 50, Nose, 508577 and 508712 claims covering the Pearson, Sirdar, Baden Powell and Reko 10 developed prospects, Reko 3, Reko 38 and Reko North prospects, and David, Rose, Lorimer Creek and Mai showings. A total of 711.4 m. of 7:NQ core was drilled over 7 holes on the Daniel, Conqueror, David and Reko magnetite showings. One drill hole on the Daniel intersected massive magnetite 21.97 m. think averaging 57.55% total Fe and a drill hole of the Conqueror intersected 25.04 m. thick averaging 61.22% total Fe.

In 2006 Scott Phillips completed prospecting on the 504670 claim covering the Harris Creek showing. The survey purpose was to get an understanding of the new property. Rock chip samples and moss mats were collected, with no results reported.

In 2006 Norman Rooke and Raymond Oshust completed prospecting on the Golden 5-8 and RNR claims covering the Reko 10 developed Prospect, Reko 3, Reko 38 and Reko North prospects and the Hemm showing. 99 rock chip samples (7 submitted for assaying) and 70 stream sediment samples (none assayed) were taken. Rocks yielded values up to 0.134 ppm Au, 0.4 ppm Ag, 1325 ppm Cu, 9.95% Fe, 6540 ppm Pb and 77 ppm Zn.

In 2005 Norman Rooke, Raymond Oshust and Christopher Anderson completed prospecting on the Cypress and Rachel 1-2 claims covering the Cypress showing. Rock chips and moss mats sampled, and no results reported.

In 2006 Scott Phillips completed prospecting on the 504668 claim covering the Harris Creek showing. Rocks yielded values up to 0.05 ppm Au, <0.05 ppm Ag, 11 ppm Cu, 0.09% Fe, 4 ppm Pb and 5 ppm Zn.

In 2006 Scott Phillips completed prospecting on the Bruno claims covering the Dore 162 showing. Rocks yielded values up to 0.007 ppm Au and 137 ppm Cu.

In 2006 Scott Phillips completed prospecting on the Le Baron 10 and 12 claims covering the Lebaron Fraction showing. Rocks yielded values up to 16.5% Fe, 2.36% Cu, 229 ppm Ag, 20.3% Pb and >30% Zn.

In 2006 Douglas Herriott and Douglas Brouwer completed geochemistry and prospecting on the Stag claims covering the Hillcrest, Crown, Anomaly and Roach showings and the Alpha-Beta past producer. No new mineralization was found.

In 2006 Scott Phillips completed geochemistry and prospecting on the Le Baron #13, 520826, Le Baron 420, 520827 and 520828 claims covering the Red Dog prospect, Helga, Spur E, Doe Lake, Spur 10, Lebaron 420 and All the Marbles 2 showings. Rocks yielded values up to 229 ppm Ag, 2.92% Cu, 46.8% Fe, 15.7% Pb, >10% S and >30% Zn.

In 2006 Scott Phillips completed prospecting on the Le Baron 10 and 12 claims covering the Lebaron Fraction showing. Rocks yielded values up to 16.5% Fe, 2.36% Cu, 229 ppm Ag, 20.3% Pb and >30% Zn.

In 2006 Emerald Fields Resource Corp. completed an airborne magnetic survey over the Galleon 8, 8-3, 50, 53, 70-80, Dan 1-11, Whistle 1-2, Coho 2-6 and Renfrew 1-5 claims covering the Red Dog prospect, Pearson, Sirdar, Baden Powell and Reko 10 developed prospects, Reko 3, Reko 38 and Reko North prospects, and David, Elijah, Rose, Tally, Alfreda, Nan, Harris Creek, Dore (30, 52, 99, 97), Polly, DL Dore 162, Harris, Ebb, Lizard, Helga Baird Creek Marble and Hemm showings,. The results of the 2006 exploration program designate zones of interest for further investigation and were proven to be of great benefit in mapping the geology and structure of the Pearson claim block. The airborne geophysical survey provided good information on the structure and geology of the area of interest resulting in a list of prioritized targets to be pursued with further geological investigations.

In 2007 Norman Rooke, Raymond Oshust, Joseph Raymond and Gordon Saunders completed prospecting on the RNR and Golden 5-8 claims covering the Reko 10 developed Prospect, Reko 3, Reko 38 and Reko North prospects and the Hemm showing. Rocks yielded values up to 0.157 ppm Au, 7.3 ppm Ag, 74 ppm As, >10,000 ppm Cu, 26.6% Fe and 347 ppm Zn.

In 2007 Scott Phillips completing prospecting on the LeBaron 420 claim covering the Val and Helga showings. Rocks yielded values up to 0.478 ppm Au, 3.6 ppm Ag, 2.01% Cu and 17.6% Fe.

In 2007 Gordon Saunders completed prospecting on the Rayman, Tracey #2, Raymond #2 and Ray Norm claims covering the Rose, Dore 52, Dore 99 and Dore 97 showings. 70+ rock chip samples and 30 stream sediment samples were taken with 12 rocks and 2 streams submitted for assaying. Rocks yielded values up to 0.144 ppm Au, 5.1 ppm Ag, 1610 ppm As, 5200 ppm Cu, and 30.3% Fe (all values from a single sample #2). Sediments yielded up to 0.003 ppm Au, <0.005 ppm Pt and <0.001 ppm Pd.

In 2007 Scott Phillips and Robert Morris completing prospecting on the 535898 (Le Baron), 535890 (Le Baron) and 535899 (Le Baron) claims. 70+ rock chip samples and 30 stream sediment samples collected with 6 rocks submitted for assaying. Rocks yielded values up to 0.048 ppm Au, <0.5 ppm Ag, 239 ppm Cu, 8.76% Fe and 178 ppm Zn.

In 2007 Scott and Shelly Phillips and Robert and Betty Morris completed prospecting on the All the Marbles 1-2 claims. Rocks yielded values up to 1.37 ppm Au, 0.013 ppm Pl, 0.043 ppm Pd, 311 ppm Ag and >30% Cu.

In 2007 Scott Phillips completed rock geochemistry and the Le Baron #13, Le Baron 420 (519796) and Le Baron 420 claims covering the Red Dog prospect, Helga, Spur E, Doe Lake, Spur 10, Lebaron 420 and All the Marbles 2 showings. Rocks yielded values up to 4.3 ppm Ag, 1.29% Cu, 38.3% Fe, >10% S and 148 ppm Zn. It was concluded drilling was needed to advance property.

In 2008 Scott Phillips completed prospecting on the All the Marbles 1-2 claims. Rocks yielded values up to >100 ppm Ag, >10,000 Cu, 31.5% Fe, >10,000 ppm Pb and >10,000 ppm Zn.

In 2008 Scott Phillips completed prospecting on the Le Baron 420 claim covering the Red Dog prospect, Helga, Spur E, Doe Lake, Spur 10, Lebaron 420 and All the Marbles 2 showings. Rocks yielded values up to 1.68% Cu, 18.8% Fe and >10% S.

In 2008 Scott Phillips completed prospecting on the Le Baron #10 claim covering the Harris Creek showing. The survey was conducted in preparation for a drilling and mini bulk sample program to test the viability of utilizing the limestone for commercial use.

In 2008 Gordon Saunders and Norman Rooke completed prospecting on the Golden 5-8, RNR and Tracey claims covering the RNR, Golden 5, Golden Fraction and Golden 5 South showings. Rock and sediment sampling and surveying for potential drill targets, with no results reported.

In 2008 Vincent Buddick completed geological mapping on the Roberts claim. Mapping shows two small areas of mineralization and samples were collected for future study.

In 2008 Vincent Buddick completed geological mapping on the Indian claim. Mapping found that any economic potential would lie primarily in the limestone with one interesting copper mineralization that warrants follow-up work.

In 2008 Vincent Buddick completed geological mapping on the Gibbons claim. Mapping found that any economic potential would lie primarily in the limestone.

In 2008 Emerald Field Resource Corp completed an airborne electromagnetic and magnetic survey on the 556937-938, 556942, 556944-945, 556947, 556949, 556951, 557073, 557076, 557079, 557081, 557084, etc. (portions of the Pearson Claim Group) covering the Pearson, Sirdar, Baden Powell and Reko 10 developed prospects, David, Rose, Lorimer Creek and Mai showings Reko 3, Reko 38 and Reko North prospects. The survey, in addition to mapping magnetic zones, EM derived high magnetite zones and conductive zones, inferred magnetic breaks and contacts as shown on the interpretation maps. Magnetic results, in conjunction with other geophysical parameters, provided valuable information for indicating targets to search for new magnetite bodies.

In 2008 Emerald Fields completed rock and soil geochemistry and a magnetic ground survey on portions of the Pearson Group Claims covering the Pearson, Sirdar, Baden Powell and Reko 10 developed prospects, Reko 3, Reko 38 and Reko North prospects and the David, Rose, Tally, Val, Gad, Ebb, Lizard, New World Slate, Hemm, Lorimer Creek and Mai showings. Rock and soil geochemistry was conducted over the Granite (Reko) area. A sample from the P12 area yielded 2.53 g/t Au. At the Popes Nose a sample assayed 5.32 g/t Au, 28 g/t Ag, 9.41% Cu,

0.06% Zn and 0.01% Mo. The new Mag Creek massive magnetite had two samples yield 52 and 53% Fe. In the South Granite area a section 300 m. long yielded Au values up to 256 ppb. Over the Popes Nose Au values were up to 500 ppb. Au, Ag, Cu, Pb and Zn were elevated in the Fairy creek area. East of Ferry Lake Au, Ag, Pt and Pd values were elevated. The magnetometer survey was conducted over the Granite (Reko), Edinburgh and Bugaboo areas with 54-line km completed. The magnetometer survey over the Granite Area yielded values up to 80,000 gammas on the P12 ridge. On the Edinburgh area 2 areas of interest were found, a 200 by 200 m. area yielded up to 2000 gammas (no outcrop) and the Mai area with cliffs up to 40 m. high by 30 m. with readings up to 98,000 gammas. The Bugaboo area the Daniel was outlined to be 300 by 500 m. and the Conqueror 300-400 by 500 m.

In 2008 Scott Phillips and Robert Morris completed rock geochemistry and prospecting on the Le Baron 420 claim covering the Browns Creek showing. Rocks yielded up to 1.2 ppm Ag, 111 ppm As, 1200 ppm Ba, 1020 ppm Cu and 93 ppm Zn.

In 2008 Raymond Oshust completed rock geochemistry and prospecting on the Bruno and Bruno 2 claims covering the Harris Creek, Dore 162 and Hemm showings and the Reko 3 prospect. Of the 20 rocks sampled 8 were assayed yielding values up to 220 ppm Ba and 456 ppm Cu.

In 2008 Gordon Saunders completed prospecting on the Rayman, Tracey 2, Raymond 2, Rayman 3 and Ray Norm claims covering the Elijah, Rose, Dore, 30, 97 and 99 and TL5798 showings. Rocks yielded values up to 2.58 ppm Au, 160 ppm Ba and 117 ppm Zn.

In 2008 Scott Phillips completed prospecting on the Le Baron and 535899 claims covering the Loup Creek showing. 70 rock chip samples were taken with 4 submitted for assays. Rocks yielded values up to 4.6 ppm Ag, 1010 ppm Co, 9690 ppm Cu, >10% S and 574 ppm Zn.

In 2008 Scott Phillips completed rock geochemistry and prospecting on the Le Baron claim covering the Loup Creek showing. 40 Rock chip samples were taken with 4 submitted for assaying. Rocks yielded values up to 1.3 ppm Ag, 8.18 ppm Al, 270 ppm Ba, 540 ppm Co, 6940 ppm Cu, 22.2% Fe, >10% S and 238 ppm Zn.

In 2008 Scott Phillips completed rock geochemistry and prospecting on the 504668 claim covering the Harris Creek showing. Four limestone samples were submitted for assaying and while not bright or pure white contained from 35.1-36.3% Ca.

In 2008 Scott Phillips completed prospecting on the Le Baron10 and Le Baron 12 claims. 36 rocks and 26 moss mats were collected but none were submitted for assaying.

In 2008 Scott Phillips completed rock geochemistry and prospecting on the Le Baron 53 claim. Five sediment test holes were dug and five rock chip samples were collected but none were submitted for assaying.

In 2008 Scott Phillips completed prospecting on the All the Marbles 1-2 claims. Rocks yielded values up to >100 ppm Ag, >10,000 Cu, 31.5% Fe, >10,000 ppm Pb and >10,000 ppm Zn.

In 2008 Scott Phillips completed prospecting on the Le Baron 420 claim covering the Red Dog prospect, Helga, Spur E, Doe Lake, Spur 10, Lebaron 420 and All the Marbles 2 showings. Rocks yielded values up to 1.68% Cu, 18.8% Fe and >10% S.

In 2009 Pacific Iron Ore Corporation completed rock geochemistry, geological mapping and ground magnetics on the 508577 and 508649 claims covering the Pearson, Sirdar, Baden Powell and Reko 10 developed prospects, Reko 3, Reko 38 and Reko North prospects and the David, Elijah, Rose, Lorimer Creek and Mai showings. Rocks yielded values up to 0.164 ppm Au, 8.33 ppm Ag, 790 ppm Ba, 2190 ppm Co, 1.375% Cu and 63.7% Fe. Mapping located new potential magnetite showings. The magnetometer survey consisted of road parallel and easy access lines over much of the Pearson Project Area. 3 grid areas were surveyed, Grid RK10 (Reko 10) with four magnetic anomalies located, Grid PN (previously known as Reko 3 containing the Popes Nose and Road Pit showings) with two magnetic anomalies, and Grid P12 (previously known as Reko North) with two magnetic anomalies.

In 2009 Scott Phillips completed prospecting on the 535890, 535899, Rayman, Tracey 2, Rayman 2 and Rayman 3 claims covering the Elijah, Dore, 30, 52, 99 and 97, TL5798 and Hemmingson East Showings. 71 rock chip samples were taken with 13 submitted for assaying. Rocks yielded values up to 1.56 ppm Ag, 4990 ppm Cu, >50 ppm Fe and 644 ppm Zn.

In 2009 Scott Phillips completed prospecting on the Le Baron claim covering the Loup Creek showing. 33 Rock chip samples were taken with 5 submitted for assaying. Rocks yielded values up to 7.68 ppm Ag, 2260 ppm Co and 4.77% ppm Cu.

In 2009 Scott Phillips completed prospecting on the Le Baron 53 claim. 16 rock chip samples were taken with 4 submitted for assaying. Rocks yielded values up to 0.64 ppm Ag and 161.5 ppm Cu.

In 2009 Scott Phillips completed prospecting on the Le Baron 420 claim covering the Browns Creek showing. 44 rock chip samples were taken with 5 submitted for assaying. Rocks yielded values up to 11.2 ppm Ag and 5570 ppm Cu.

In 2009 Pacific Iron Ore Corporation completed diamond drilling and geochemistry on the Galleon 53 and 57 and Nose claims covering the Pearson, Sirdar, Baden Powell and Reko 10 developed prospects, Reko 3 and 38, Reko North prospects, and David, Rose, Lorimer Creek and Mai showings. A total of 8356.85 m. was drilled over 37 holes including 4733.7 m. in 16 holes on the Bugaboo deposit to further refine resource estimates, 3022.4 m. in 18 holes on various magnetite skarns in the Granite area and 600.76 m. in 3 holes on mafic-ultramafic rocks outcropping in the Granite 8000 area to test their PGE potential. Of the Bugaboo holes 12 holes intercepted significant magnetite with cumulative intercept thicknesses up to 86.68 m. and average total percentages from 40.89% Fe to 64.65% Fe, 0.7% to 4.7% S and 175.26 ppm to 1259.07 ppm Cu. In the Granite area 7 holes on the Creek showing yielded values up to 3.83 ppm Ag, 109 ppm As, 7270 ppm Cu, 451 ppm Ni, 53 ppb Au and 44.7% Fe and garnet-pyroxene skarns and 4 holes on the P-12 Anomaly area yielded values up to 15 ppm Ag, 497 ppm As, 8.7% Cu, 69 ppb Au and 61.9% Fe. In the Granite 8000 area PGE concentrations encountered were interesting but sub-economic. Updated resource estimates to be reported later.

In 2009 Scott Phillips completed prospecting on the Le Baron 13, Le Baron 420, 520827 and 520828 claims covering the Red Dog prospect, Helga, Spur E, Doe Lake, Spur 10, Lebaron 420 and All the Marbles 2 showings. Rocks were assayed for Cu and yielded up to 5.36%.

In 2009 Dean Arbic completed geochemistry on the Jupiter claim covering the Alpha-Beta past producer. Rocks yielded values up to 21 ppm Mo, 9.012% Cu, and 41.57% Fe.

In 2008 Joe Scott completed prospecting on the 575294 and 575914 claims covering the Roc Doc showing. Rocks yielded values up to 33.6 ppm Ag, 1585 ppm Co, 1.915% Cu, 36.1% Fe, >10% S and 922 ppm Zn.

In 2009 Scott Phillips completed prospecting on the Le Baron 420 claim covering the Red Dog prospect, Helga, Spur E, Doe Lake, Spur 10, Lebaron 420 and All the Marbles 2 showings. Rocks yielded values up to 36 ppm Ag, 3.17% Cu, 36.7% Fe and 0.36 ppm Au.

In 2009 Scott Phillips completed rock geochemistry on the All the Marbles 1-2 claims covering the Lens Creek Quarry and All the Marbles 1 showings. Rocks yielded values up to 27.8% Fe, and >10% S.

In 2010 Pacific Iron Ore Corporation completed diamond drilling and geochemistry on the 508577 and 508578 claims covering the Pearson, Sirdar, Baden Powell developed prospects and David, Elijah, Rose, Lorimer Creek and Mai showings. A total of 10876 m. was drilled over 42 holes. On the Bugaboo showing a further 9410 m. over 33 holes was drilled as a continuation on the 2009 drilling program. 27 of the 33 holes intercepted significant magnetite and as a result the resource estimate was increased to 14.324 Mt at 60% magnetite using a cutoff grade of 20% magnetite. Two distinct bodies were added to the original three consisting of the Daniel the Upper Conqueror, the Lower Conqueror, the Deep Zone and the Mishael. Results yielded average total percentages from 35.56% to 66.55% Fe, 108 to 29,600 ppm Cu and 0.43 to >10% S. The Axe Creek area appears to be less well developed and did not produce any significant results.

In 2010 Scott Phillips completed prospecting on the 504670 and 504668 claims cover the Harris Creek showing. 28 rock chips samples were taken with 7 submitted for assaying. Rocks yielded values up to 1.5 ppm Ag and 102 ppm Cu.

In 2010 Scott Phillips completed rock geochemistry on the Le Baron 13, Le Baron 420, 520826, 520827 and 520828 claims covering the Red Dog prospect, Helga, Spur E, Doe Lake, Spur 10, Lebaron 420 and All the Marbles 2 showings. Rocks were assayed for Cu and yielded up to 5.39%.

In 2010 Scott Phillips and Gordon Saunders completed rock geochemistry on the 589308 claim covering the Lens Creek Quarry and All the Marbles 1 showings. Rocks yielded values up to 80 ppm Cu, 5.57% Fe and 0.005 ppm Au.

In 2010 Scott Phillips completed rock geochemistry and prospecting on the 575294 and 575914 claims covering the Hillcrest, Anomaly, Roach, and Roc Doc showings and the Alpha-Beta past producer. Rocks were assayed for Fe and yielded up to 28.1% Fe.

In 2012 Pacific Iron Ore Corporation completed diamond drilling and geochemistry on the 508577 claim covering the Pearson, Sirdar, Baden Powell developed prospects and David, Elijah, Rose, Lorimer Creek and Mai showings. A total of 6380 m. was drilled over 17 holes all on the Bugaboo Area. All 17 holes intercepted significant amounts of magnetite. Rocks yielded values up to 0.125 ppm Au, 1.36 ppm Ag, 6560 ppm Cu, 67.8% Fe, 1200 ppm Ni and 11% S.

In 2010 Gordon Saunders completed geochemistry on the 392325, 508826, 401285, 535952, 392328 claims covering the Ebb, RNR, Golden 5, Golden Fraction and Golden 5 South showings. 201 rock chip samples were taken with 62 submitted for assaying. Rocks from the RNR area yielded values up to 1.7 ppm Ag and 5470 ppm Cu. Rocks from the Golden 5 area

yielded values up to 73.1% Fe. Rocks from the Golden 6&7 area yielded values up to 39% Fe and 1.2% S. Rocks from the Golden 8 area yielded values up to 99.29% Fe. (Pacific Iron Ore's work was partially completed on these tenures by accident)

In 2010 Scott Phillips completed prospecting in the 402359 and 403757 claims covering the Dore 162 and Loup Creek showings. 25 rock chip samples were taken with 6 submitted for assaying. Rocks yielded values up to 6.4 ppm Ag, 4.93% Cu, 45.9% Fe and 9.63% S.

In 2010 Scott Phillips completed prospecting on the 415324, 415325, 415326, 415327, 415361 and 415328 claims. 120 rock chip samples were taken with 9 submitted for assaying. Rocks yielded values up to 2.2 ppm Ag, 5220 ppm Cu, and 42.6% Fe.

The 2011 report on claims 571189, 571191, 571192, 571196, 571213, 571215 and 509082 by Scott Phillips is currently under review, and not publicly available.

In 2013 Dean Arbic completed geochemistry on the 536855, 568846 and 570448 claims covering the Hillcrest, Anomaly and Roach showings and the Alpha-Beta past producer. Previously collected samples were used in an experimental smelting. Pyrite and Chalcopyrite crushed and roasted to a powder and then smelted resulting in a black surfaced metal with a dark blue interior that was hard and brittle. It was hypothesized that a simple brassy coloured iron and copper type alloy would be the result. Further refining was unable to produce the desired result but an oxidized black powder, it was concluded there was too much magnetite present.

In 2011 Scott Phillips and Robert and Betty Morris completed geochemistry and prospecting on the All the Marbles, 516184 and Le Baron Prospecting claims. Rocks yielded values up to 2260 ppm Cu, 20.1% Fe, >10% S and 292 ppm Zn.

In 2012 Scott Phillips completed prospecting on the 574597 and 867655 claims. 25 rock chip samples were taken with 5 submitted for assaying. Rocks yielded up to 25.5% Fe.

In 2012 Scott Phillips completed rock geochemistry and prospecting on the Le Baron 10-12 claims.12 rock chip samples were taken with 3 submitted for assaying. Rocks yielded values up to 21.1% Fe.

In 2012 Scott and Shelly Phillips and Robert Morris completed rock geochemistry and prospecting on the All the Marbles, 516184 and Le Baron Prospecting claims. Rocks yielded values up to 1065 ppm Cu, 17.2% Fe and >10% S.

In 2012 Scott Phillips completed prospecting on the 601435 claim. Rocks yielded values up to 545 ppm Cu and 7.3% Fe.

In 2013 Scott Phillips completed geochemistry on the Bruno and Bruno 2 claims covering the Dore 162 showing. Rocks yielded values up to 160 ppm Cu and 6.7% Fe.

In 2013 Scott Phillips completed rock and silt geochemistry on the RNR, Tracey and Tracey #2 claims covering the RNR showing. Rocks yielded values up to 1890 ppm Cu, >50% Fe and 583 ppm Zn.

In 2013, Dean Arbic completed prospecting and geochemistry on the Florentia claim.

In 2013, Canadian Dehua International Mines Group Inc. completed site visits to MINFILE occurrences on, and metallurgical testing of rock and drill core samples from the large Pacific Iron Property, covering many BC MINFILE occurrences. Concentrates from five Fe/Cu Skarn samples one each from the David, Sirdar, Bugaboo (Pearson), Reko 3 and Reko 10 occurrences yielded average values of 68.29% Fe and 0.17% S.

In 2014, Scott Philips, Raymond Oshust, Stewart McDiarmid, Marjorie Rooke and Gordon Saunders completed rock sampling and geochemistry of limestone at the Golden 8 showing. Twelve samples yielded values of 94..86% to 99.29% CaCO3.

In 2014, Scott Philips, Raymond Oshust and Gordon Saunders completed prospecting and rock geochemistry on the Reko Iron Property covering the Reko 3, Reko 10, Reko 38, Ebb, Reko North and Hemm showings. Rocks yielded values up to 62.2% Fe and 14.2% Cu.

In 2014, Canadian Dehua International Mines Group Inc. completed geological mapping, ground magnetics and rock geochemistry in the Bugaboo area of the very large Pacific Iron Property, covering many BC MINFILE occurrences. Geological mapping resulted in the interpretation of a 10 by 2 km elongated synclinal belt of marbleized limestone underlying 28 of 30 ground magnetic high response anomalies. Fourteen samples of Fe/Cu Skarn yielded average values of 1035 ppm Cu, 538 ppm Zn, 58% Fe and 70% magnetic minerals (Magnetite and Pyrrhotite).

In 2014, Scott Philips, Raymond Oshust, Marjorie Rooke and Gordon Saunders completed systematic rock geochemistry on the RNR, Tracey and Tracey #2 claims covering the RNR showing. Forty five rock samples yielded values up to 19.9% Fe and 3920 ppm Cu.

In 2014, Scott Philips and Robert Morris completed prospecting and rock geochemistry on the Doe Lake Project covering the Red Dog prospect. Twenty one rock samples yielded values up to 3.72% Cu, 48.4% Fe, 241 ppm Mo and 0.459 ppm Au.

List of claims and work completed

From November 2 to 10, 2015 the author and field crew mobilized to Lake Cowichan, worked on the Bugaboo-Reko Iron Property, and demobilized from the project site for a total of 9 days. The field crew consisted of project manager J. Houle, P.Eng., prospector R. Bilquist, and B.Sc. geologists M. Brannstrom and C. Broda, who generally worked in pairs communicating using VHF radios. The field program was based from a rental house in Youbou near Lake Cowichan and the field crew commuted daily to the property by pickup truck. Work was completed on 13 of the 37 claims of the property, covering only the eastern half of the property, consisting of cell claims 508712, 508714, 508534, 846171, 905329, 905424, 905426, 905429, 905430, 905431, 1025133, 1025134, 1025135. One additional day November 13 was spent by J. Houle and C. Broda traveling to and working on claim 508077 located on the western portion of the property.

The 2015 field program at Bugaboo-Reko Iron was designed primarily to evaluate (detect or eliminate) the potential on the eastern half of the property for significant mineral deposits containing primarily iron, copper and/or gold. In addition, known Fe/Cu Skarn occurrences in the Reko (Central) area were relocated, mapped, and sampled, where accessible. The primary field program utilized stream moss mat sampling of prospective drainages and select outcrop grab samples were taken of mineralized exposures if encountered. The prospective drainages for stream moss mat sampling were selected based on the presence of at least 1 of 5 favourable criteria located upstream of the sample sites:

- BC MINFILE occurrences containing metallic minerals, mainly copper and/or gold
- BC Regional Geochemical Survey anomalies of copper and/or gold
- 2014 remote sensing spectral anomalies of copper minerals
- Favourable geological settings for copper/gold deposits based on BCGS Geology
- Favourable magnetic signatures for copper/gold deposits based on 1st Derivative Aeromagnetics

All 117 stream moss mat samples were taken from within stream drainages between the apparent maximum and minimum water levels. At each sample site, GPS locations, sample numbers, and sample site characteristics were recorded on pre-printed waterproof forms in field notebooks. The sample number was also entered as a waypoint in the GPS unit at each sample site, and also on a metal tag attached to a nearby tree or shrub along with fluorescent orange flagging tape. Each sample consisted of a synthetic cloth bag filled with about 1 kg. of sediment-laden moss scraped by hand from multiple nearby boulders and/or outcrops, and with 3 duplicate waterproof sample tags for each sample including 2 in each bag and 1 stapled to the sewn-in tag attached each bag, which was tied closed. All moss samples were taken daily to the field office for drying and secure custody until sent for analysis.

All 8 rock samples were taken in duplicate from mineralized outcrop exposures, with one from each sample pair retained as a reference sample, later cut into slabs with a rock saw, and described in detail by J. Houle using a binocular microscope. The other rock sample pair was kept in secure custody until sent for analysis. At each sample site, GPS locations, sample numbers, and sample site characteristics were recorded on pre-printed waterproof forms in field notebooks. The sample number was also entered as a waypoint in the GPS unit at each sample site, and also on a metal tag attached to a nearby tree or shrub along with fluorescent orange flagging tape. Each sample consisted of a plastic bag filled with about 1 kg. of un-weathered rock extracted by hammer and/or moil from an outcrop, and with 3 duplicate waterproof sample tags for each sample including 2 in the reference specimen bag and 1 in the analysis sample bag. All rock samples were taken daily to the field office for secure custody until sent for analysis, or cutting and microscopy.

Stream moss mat and rock sample location data, geochemistry highlights, geochemical analysis reports, and sample chain of custody forms all appear in **Appendix 1**. Stream moss mat and rock sample locations and geochemistry highlights for the east half of the Bugaboo-Reko Iron Property at 1:50,000 scale appear in **Figures 3a to 3d inclusive**. Detailed maps at 1:25,000 scale of stream moss mat and rock sample highlights appear in **Figures 4a to 4g inclusive.**

Technical Data, Interpretation, Conclusions and Recommendations

There are 31 documented BC MINFILE occurrences (see **Table 2**) located on the property grouped by area as follows:

<u>Bugaboo (Western) Area:</u>

- 092C 022 – Pearson – Developed Prospect – Fe Skarn – contains Iron, Magnetite
- 092C 023 – David – Showing – Fe Skarn – contains Iron, Magnetite
- 092C 024 – Elijah – Showing – Fe Skarn – contains Iron, Magnetite
- 092C 025 – Sirdar – Developed Prospect – Fe Skarn – contains Iron, Magnetite
- 092C 027 – Baden Powell – Showing – Fe Skarn – contains Iron, Magnetite
- 092C 030 – Rose – Showing – Fe Skarn – contains Iron, Magnetite

- 092C 068 – Alfreda – Showing – Fe/Cu Skarn – Iron, Magnetite, Gold, Silver, Copper
- 092C 089 – Val – Showing – Cu/Ag Quartz Vein – contains Copper
- 092C 157 – Baird Creek Marble – Showing – Limestone
- 092C 162 – Loup Creek – unspecified type – contains Copper
- 092C 173 – Cypress – Showing - Fe Skarn – contains Iron
- 092C 219 – Browns Creek – Showing – unspecified type – contains Copper, Silver
- 092C 229 – Lorimer Creek – Showing - Cu/Fe Skarn – Copper, Gold, Iron, Silver
- 092C 230 – Mai – Showing – Fe Skarn – contains Magnetite, Iron

Reko (Central) Area:

- 092C 091 – Reko 10 – Developed Prospect – Fe/Cu Skarn – Iron, Copper, Gold
- 092C 099 – Dore 52 – Showing – Porphyry Cu-Mo-Au – contains Copper
- 092C 142 – Lizard – Showing – unspecified type - contains Copper
- 092C 146 – Reko N. – Prospect – Fe/Cu Skarn – Iron, Mt., Gold, Silver, Zinc, Copper
- 092C 163 – Lebaron Fraction – Showing - unspecified type – contains Copper
- 092C 172 – Granite Main – Showing – unspecified type – contains Gold, Silver, Copper
- 092C 226 – Creek Zone – Showing – Cu/Fe Skarn – Copper, Iron, Magnetite, Silver
- 092C 227 – GRA3500-A – Showing – Cu Skarn – contains Copper
- 092C 228 – GRA3500-B – Showing – Cu/Fe Skarn – Copper, Iron, Magnetite

Lens (Eastern) Area:

- 092C 031 – Tally – Showing – Fe/Cu Skarn – Iron, Magnetite, Copper, Cobalt, Silver
- 092C 085 – Harris Creek – Showing – Limestone, Dimension Stone, Marble
- 092C 147 – Helga – Showing – Fe Skarn – contains Iron, Magnetite, Copper
- 092C 164 – Roc Doc – Showing – unspecified type – contains Copper
- 092C 197 – Spur 10 – Showing – Cu Skarn – contains Copper, Silver
- 092C 198 – Spur 1 – Showing – Cu Skarn – contains Copper
- 092C 199 – Lebaron 420 – Showing – Cu Skarn – contains Copper
- 092C 200 – Lens Creek Quarry – Showing – unspecified type – contains Copper, Silver

Of the 14 BC MINFILE occurrences located in the Bugaboo (Western) Area of the property, 10 are Fe Skarn and/or Cu Skarn types, and all are well-covered by the Company's cell mineral claims. Previous work completed by various operators over the years confirmed the presence of a significant cluster of Fe Skarn type mineral deposits containing primarily Iron and Magnetite, and excellent potential to discover additional deposits in the Bugaboo area. During the 2015 field program, 2 rock samples were taken from outcropping Fe Skarn mineralization in a road cut at the David Showing BC MINFILE 092C 023 with highly elevated values in target elements, and very low Sulphur values as follows, and shown in **Figure 4g**:

- E5123624 – Select outcrop grab from a 7 m. wide exposure of Fe Skarn at the south end of the road cut yielded 68.4% Iron, 90.1% Magnetite and 0.17% Sulphur
- E5123625 – Select outcrop grab from a 7 m. wide exposure of Fe Skarn at the north end of the road cut yielded 71.3% Iron, 91.4% Magnetite and 0.06% Sulphur

Of the 9 BC MINFILE occurrences located in the Reko (Central) Area of the property, 5 are Fe Skarn and/or Cu Skarn types (Reko 10, Creek Zone, GRA3500-A and GRA3500-B) and are covered by the Company's cell and legacy claims but located near and separated by the largest 1 of 5 internal gaps within the Company's claims held by others in the Reko Area. These

internal gaps cover 10 BC MINFILE occurrences, of which 7 are Fe Skarn and/or Cu Skarn types (Reko 3, Reko 38, RNR, Golden Fraction, Golden 5 South, Spring and Golden 8). Previous work completed by various operators over the years confirmed the presence of a significant cluster of Fe/Cu Skarn type mineral deposits containing Iron, Magnetite Copper, Cobalt, Zinc, Silver and Gold, and excellent potential to discover additional deposits in the Reko area. During the 2015 field program, 5 rock samples were taken from 3 locations of outcropping Fe/Cu Skarn mineralization exposed in road cuts located between BC MINFILE occurrences Reko 10 092C 091 and Creek Zone 092C 226, with highly elevated values in target and indicator elements as follows, and shown in **Figures 4b and 4d**:

- E5124263, E5124264 and E5124265 – Select outcrop grabs from 3 locations within a 15 m. by 7 m. exposure of Fe/Cu in a road side trench yielded 32.8% to +50% Iron, 36.2% to 83.6% Magnetite, 2.87% to +10% Sulphur, 698 to 3390 ppm Copper, 181 to 739 ppm Cobalt, 261 to 377 ppm Zinc, and 0.29 to 2.35 ppm Silver.
- E5124785 – Select outcrop grab from a 0.75 m. by 0.5 m. Fe/Cu Skarn exposure in a road cut yielded 30.4% Fe, 36.3% Magnetite, 2.03% Sulphur, 384 ppm Copper and 255 ppm Zinc.
- E5124786 – Select outcrop grab from a 0.5 by 0.05 m. Fe/Cu Skarn exposure in a road cut yielded 35.4% Fe, 44.6% Magnetite, 2.15% Sulphur, 2930 ppm Copper, 147 ppm Cobalt, 288 ppm Nickel and 513 ppm Zinc.

Of the 58 BC MINFILE occurrences located on or adjacent to the Bugaboo-Reko Iron Property (**see Table 2**), 13 are Cu-Ag Quartz Veins, Porphyry Cu-Mo-Au and/or unspecified types containing Copper +/- Gold, Silver, Lead and/or Zinc. This includes 5 BC MINFILE showings (Dore 52, Lizard, LeBaron Fraction, and Granite Main on the Company's property in the Reko (Central) Area. The favourable geological setting for Fe/Cu Skarn deposits in the area can be favourable for Porphyry Cu-Mo-Au and related Epithermal Au-Ag deposits, but limited systematic exploration work has been done in the area targeting these deposit types. During the 2015 field program, a chalcopyrite-bearing quartz-sulphide vein was discovered by geologist C. Broda in the road cut exposure of the Pacific Marine Road while stream moss mat sampling. This site is located between BC MINFILE showings Lizard and All the Marbles 1, and yielded highly elevated values in target and indicator elements as follows, as shown in **Figure 4b**:

- E5123684 – Select outcrop grab from a 0.1 m. thick quartz-sulphide vein exposed in the road cut yielded 2.72% Copper, 0.129 ppm Gold, 16.5 ppm Silver & 208 ppm Chromium.

In addition to the 8 rock samples taken, 5 sites were located and documented (**see GPS Locations Table in Appendix 1**) which contained either significantly mineralized float (non-outcropping rock) or weakly mineralized outcrop, which was not deemed worthy of sampling.

Stream moss mat samples taken during the 2015 field program totaled 117 (see **Stream Moss Mat Sample Highlights Table in Appendix 1** and **Figures 3c, 3d, 4a, 4c, 4e, 4f**) of which 22 yielded elevated values in 1 or more target or indicator elements, 6 yielded elevated values in 2 or more such elements, and 2 yielded elevated values in 3 such elements.

Target or indicator elements for magnetite, copper and/or gold bearing mineral deposits with threshold elevated values were arbitrarily selected as follows:

- Gold >0.25 ppm 1 sample elevated
- Silver >1 ppm 1 sample elevated
- Arsenic >50 ppm 1 sample elevated
- Cadmium >2.5 ppm 1 sample elevated
- Nickel >100 ppm 14 samples elevated

- Lead >25 ppm 2 samples elevated
- Tellurium >1 ppm 5 samples elevated
- Tungsten >10 ppm 2 samples elevated
- Zinc >250 ppm 3 samples elevated

Samples with elevated values in multiple target or indicator elements (6) or with highly elevated single target or indicator elements (4) were as follows:

- E5124162 132 ppm Nickel, 2.79 ppm Tellurium
- E5124178 11.1 ppm Tungsten
- E5124185 1.19 ppm Silver, 73.5 ppm Lead, 307 ppm Zinc
- E5124431 2.98 ppm Tellurium
- E5124432 112 ppm Nickel, 1.04 ppm Tellurium
- E5123435 0.855 ppm Gold
- E5124449 2.93 ppm Cadmium, 29.6 ppm Lead, 349 ppm Zinc
- E5124515 183 ppm Nickel, 15.4 ppm Tungsten
- E5124518 2.94 ppm Tellurium
- E5124523 64.9 ppm Arsenic, 296 ppm Zinc

Four areas exist within the property with clusters of elevated element values in stream moss mat samples (see **Figure 3d**), presented in four 1:25,000 scale maps (see **Figures 4a, 4c, 4e and 4f**) and discussed by map area as follows:

Centre 2 Area (see Figure 4a) is located in the south-central part of the Bugaboo-Reko Iron Property, and contains 2 stream moss mat samples with elevated values of indicator elements draining a contiguous 3 km x 1 km area as follows:

- Sample E5124178 yielded 11.1 ppm Tungsten and was taken from a west-flowing creek draining a 1 km x 1.5 km area covering the west side of the southern end of a north-south ridge of Paleozoic to Jurassic West Coast Complex containing remnant blocks of Triassic Vancouver Group Sedimentary Rocks in an area of high magnetic response. The sample site is 2 km southwest and downhill of BC MINFILE silver-copper-iron-cobalt showing 092C 251 Golden 8 which is located within an internal gap of legacy claims held by others.
- Sample E5124446 yielded 111 ppm Nickel and was taken from a west-flowing creek draining a 2+ km x 1 km area covering the west side of the northern end of the same ridge as sample E5124178 described above. Sample site E5124446 is 1 km west and downhill of BC MINFILE silver-copper-iron-cobalt showing 092C 251 Golden 8 described above. The sample site is also 2 to 3 km south and generally downstream of several Fe/Cu Skarn MINFILE occurrences within the Reko Area including 092C 091 Reko 10, 092C 226 Creek, 092C 227 GRA3500-A and 092C 228 GRA3500-B located on cell mineral claims of the Property.

Centre 3 Area (see Figure 4c) is located in the central part of the Bugaboo-Reko Iron Property, and contains 10 stream moss samples with elevated values of indicator and/or target elements in 3 separate areas, including 1 contiguous 2 km x 2 km area as follows:

- Sample E5124019 yielded 159 ppm Nickel from a west-flowing creek, and sample E5124181 yielded 109 ppm Nickel from another west-flowing creek, both sites draining a 1 km x 0.75 km area straddling the boundary with an internal gap of claims held by others surrounded by the Property, and draining the west side of the north end of a north-south ridge of Paleozoic to Jurassic West Coast Complex containing remnant blocks of Triassic Vancouver Group Sedimentary Rocks and Karmutsen mafic volcanics

in an area of high magnetic response. The sample site is 1 km west of BC MINFILE Fe/Cu Skarn showing 092C 226 Creek which is located on the Property, and 1 to 2 km. southeast of 3 BC MINFILE Fe/Cu Skarn occurrences (092C 090, -110, -158) located within the internal gap of claims held by others.

- Sample E5124021 yielded 116 ppm Nickel, sample E5124183 yielded 115 ppm Nickel, sample E5124451 yielded 104 ppm Nickel, sample E5124452 yielded 183 ppm Nickel, and sample E5124531 yielded 140 ppm Nickel from five different east-flowing creeks draining a 2 km x 1.5 km area straddling the boundary with an internal gap of claims held by others surrounded by the Property, and draining the east side of the north end of a north-south ridge of Paleozoic to Jurassic West Coast Complex containing remnant blocks of Triassic Vancouver Group Sedimentary Rocks in an area of high magnetic response. The sample sites are 1 km west of 2 BC MINFILE Cu/Fe Skarn occurrences (092C 227 GRA3500-A and 092C 228 GRA3500-B) located on the Property.
- Sample E5124448 yielded 103 ppm Nickel from a west-flowing creek draining a 0.25 km x 0.25 km area covering the west side of the middle of a north-south ridge of Paleozoic to Jurassic West Coast Complex containing remnant blocks of Triassic Vancouver Group Sedimentary Rocks in an area of high magnetic response. The sample site is 0.5 km southwest and downslope from BC MINFILE Cu/Fe Skarn showing 092C 227 – GRA3500-A located on the Property.
- Sample E5124185 yielded 1.19 ppm Silver, 73.5 ppm Lead and 307 ppm Zinc from a south-flowing creek draining a 1+ km x 0.75 km area containing north-south striking contacts between Triassic Vancouver Group Karmutsen mafic volcanics, Vancouver Group sedimentary rocks and Jurassic Bonanza Group intermediate volcanics in an area of low magnetic response covered by the cell mineral claims of the Property.
- Sample E5124449 yielded 2.93 ppm Cadmium, 29.6 ppb Lead and 349 ppm Zinc from a south-flowing creek draining a 1 km x 0.25 km area containing faulted contacts between Jurassic Bonanza Group intermediate volcanics, Jurassic Island Intrusive granodiorite, and the Paleozoic to Jurassic West Coast Complex, and also containing remote sensing copper mineral spectral anomaly Centre 1C, in an area of low magnetic response covered by cell mineral claims of the Property.

Lens 4 Area (see Figure 4e) is located in the east central part of the Bugaboo-Reko Iron Property and contains 2 stream moss mat samples with elevated values of target and/or indicator elements draining a single contiguous 1.5 km x 1 km area as follows:

- Sample E5124435 yielded 0.855 ppm Gold from a southwest-flowing creek and sample E5124518 yielded 2.94 ppm Tellurium from a south-flowing creek draining a contiguous 1.5 km x 1 km area covered by Triassic Vancouver Group Karmutsen mafic volcanics and Vancouver Group sedimentary rocks, and a low magnetic response, and containing remote sensing copper mineral spectral anomaly Lens 4C, and also containing BC MINFILE Cu Skarn showing 092 197 – Spur 10 containing copper and silver, covered by cell mineral claims of the Property.

Lens 6 Area (see Figure 4f) is located in the northeast part of the Bugaboo-Reko Iron Property and contains 7 stream moss mat samples with elevated values of indicator minerals in 3 separate areas, including 5 samples from a 1 contiguous 4+ km x 2 km area, as follows:

- Sample E5124153 yielded 101 ppm Nickel from a south-flowing creek, sample E5124162 yielded 132 ppm Nickel and 2.79 ppm Tellurium from an east-flowing creek, sample E5124432 yielded 112 ppm Nickel and 1.04 ppm Tellurium from a west-flowing creek, sample E5124433 yielded 135 ppm Nickel from a south-west flowing creek, and sample E5124515 yielded 183 ppm Nickel and 15.4 ppm Tungsten from a west-flowing

creek draining a contiguous 4+km x 2 km area covering the faulted contact between Triassic Vancouver Group Karmutsen mafic volcanics and Jurassic Bonanza Group intermediate volcanics, and 2 remote sensing copper mineral spectral anomalies Lens 6B and Lens 6C in an area of variable magnetic response, located within but along the northern Property boundary.

- Sample E5124432 yielded 2.98 ppm Tellurium from a south-flowing creek draining a 1+ km x 0.5 km area covered by Jurassic Bonanza Group intermediate volcanics intruded by Jurassic Island Intrusive granodiorite in an area of high magnetic response straddling the Property boundary with untenured ground.
- Sample E5124523 yielded 64.9 ppm Arsenic and 296 ppm Zinc from a north-flowing creek draining a 0.5+ km x 0.5 km area covering the faulted contacts between Triassic Vancouver Group Karmutsen mafic volcanics, Vancouver Group sedimentary rocks, and Jurassic Bonanza Group intermediate volcanics, a remote sensing copper mineral spectral anomaly Lens 6A, and BC MINFILE Cu Skarn showing 092C 198 containing copper, located along the Property boundary with an internal gap of cell mineral claims held by others.

To summarize the results of the 2015 field program at Bugaboo-Reko Iron, all 8 rock samples from the Property yielded highly elevated values in some target and/or indicator elements; and 22 of 117 stream moss mat samples mainly from the centre and northeast parts of the Property yielded elevated values in some target and/or indicator elements.

The 5 Fe/Cu Skarn rock samples taken from trenched exposures in the Reko Area (**see Figures 4b and 4d**) yielded highly elevated values averaging 53% Magnetite, 0.18% Copper, 0.79 ppm Silver and 0.012 ppm Gold, comparable to 2014 rock sampling results from 14 Fe/Cu samples taken in the Bugaboo Area which yielded averages of 70% Magnetite, 0.1% Copper, 0.673 ppm Silver and 0.043 ppm Gold. Rock samples from both areas also yielded highly elevated values of indicator elements Cobalt, Nickel and Zinc. The Reko Area has excellent potential for both expanding known and discovering new Fe/Cu Skarn deposits, limited mainly by the fractionated tenure ownership around them covering known deposits and geologically and magnetically prospective areas. The fractionated tenure situation must be resolved.

The quartz-sulphide vein rock sample taken from the new roadside outcrop discovery in the southern Reko area (**see Figure 4b**) yielded 2.72% Copper, 0.129 ppm Gold, 16.5 ppm Silver, and 208 ppm Chromium. A mineralized skarn boulder was also found while stream moss mat sampling a nearby creek **(see GPS Locations in Appendix 1**), and a copper mineral spectral anomaly (Centre 1E) is located immediately north of both sites. Two (2) BC MINFILE showings are located 1 km south on the Property (092C 142 Lizard containing Copper), and 2 km east on untenured ground east of the Property (092C 202 All the Marbles 1 containing Silver, Copper, Zinc and Lead). The area of the new discovery is mapped as Paleozoic to Jurassic West Coast **Complex (see Figure 2a)**, and has a variable magnetic response **(see Figure 2b),** and the nearby stream moss mat samples taken in 2015 field to yield elevated values in target or indicator elements. Detailed prospecting is recommended around the new discovery.

The 10 stream moss mat samples sites with elevated indicator (mainly Nickel) element values located in the Reko Area (**see Figures 4a and 4c**) clearly demonstrate the positive geochemical response of the Fe/Cu Skarn mineralization. The 2 stream moss mat samples sites with elevated values of Lead, Zinc and/or Silver located in the northern Reko Area (**see Figure 4c**) suggests the presence of Pb/Zn Skarn and/or Manto deposits in the north-central part of the Property, and may indicate another cluster of Fe/Cu Skarn deposits nearby. Additional

prospecting and detailed stream moss mat sampling is recommended upstream from and north of the 2 sample sites.

In the eastern (Lens) area of the Property (**see Figure 4e**), the 2 stream moss mat sample sites with elevated values of Gold and/or Tellurium suggest the presence of vein, porphyry and/or skarn deposits between the nearby BC MINFILE showings Spur 10 092C 197 and Lens Creek Quarry 092C 200. These warrant additional prospecting and detailed stream moss mat sampling upstream and north of the 2 sample sites.

In the northeast (Lens) area of the Property (**see Figure 4f**), the 5 stream clustered moss mat sample sites with elevated values of indicator elements Nickel, Tungsten and/or Tellurium suggest the presence of an undiscovered Fe/Cu Skarn area in the area. These warrant additional prospecting and detailed stream moss mat sampling upstream and north of the 2 sample sites. The 1 stream moss mat sample site with elevated values of Arsenic and Zinc suggests the presence of skarn deposits, and warrants detailed prospecting and stream moss mat sampling, but has a probable source within internal property gap held by others. The 1 isolated stream moss mat sample site with elevated value in Tellurium may suggest the presence of vein deposits, and has a probable source in untenured areas north of the property.

It is recommended that Dehua maintains all of its Bugaboo-Reko Iron Property except the extreme northeastern and southeastern parts, where the following claims or claim portions should be allowed to forfeit: 846171, 903329, 904426, 905424 (eastern portion only), 508534 (southeast portion only), and1025135 (northeast portion only) **(See Figure 5)**. It is also recommended that 5 internal tenure gaps within the central part of Property (**see Figure 5**) be acquired by Dehua prior to any further work in the Reko (Central) Area; and that 1 internal tenure gap within the eastern part of the Property (**see Figure 5**) be acquired by Dehua prior to any further work in the Lens (Eastern) Area. If the Bugaboo-Reko Iron Property must be reduced in size due to economic considerations, the Bugaboo Area is the highest priority area of the Property, the Reko Area is the second highest, and the Lens Area the third highest.

The Bugaboo-Reko Iron Property hosts excellent potential for the discovery of Fe/Cu skarn, porphyry Cu-Mo-Au, vein Au-Ag-Cu and sedimentary limestone/marble deposits clustered mainly within three areas: Bugaboo, Reko and Lens. Considerable exploration work has been done by many past and present mineral tenure holders within or immediately surrounding the area of the property listed in **Tables 2 and 3**, as summarized in the History Section. It is recommended that highlights of this data be compiled and geo-referenced by a qualified and experienced person using an industry-standard GIS format. Targeted prospecting and detailed stream moss mat sampling is recommended in the 4 specific areas in the Reko (Centre) and Lens (East) areas described in the preceding paragraphs, followed by appropriate, systematic ground exploration programs similar to the one completed in 2014 in the Bugaboo Area.

The Bugaboo (Western) Area of the Property hosts excellent potential for the discovery of many Fe Skarn deposits containing primarily magnetite, and also Cu Skarn deposits containing magnetite and by-product copper, zinc, gold and/or silver. The synclinal limestone basin structure interpreted from the 2014 geological mapping program provides a discrete 2-D perimeter and 3-D volume for focused future exploration work targeting skarn deposits. At the Bugaboo Area, continued systematic work required to advance each target is provided in the 2014 assessment report (Houle et.al, 2014), including combinations of geological mapping, ground magnetics, access trail/drill platform construction, mechanized trenching and diamond drilling. In addition, it is recommended that all 2006 airborne, 2014 ground and future magnetic data be subjected to industry-standard inversion modeling by a qualified and experienced

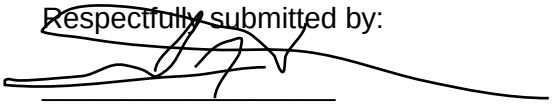
geophysicist. This will help guide future sub-surface exploration work, particularly diamond drilling, of the magnetic skarn targets. It is also recommended that geochemical standards be created by a qualified and experienced person using mineralized rock derived from fresh rock samples and diamond drill core from the Bugaboo area deposits and surrounding host rocks, including magnetite skarn, sulphidic skarn, magnetite-bearing intrusives, barren intrusives and barren limestone. These will be useful for QA/QC work required in future diamond drilling programs. These recommendations are summarized in Table 4 below:

Table 4 – Proposed Work Program for the Bugaboo-Reko Iron Property:

Bugaboo Area			
Item	**Units**	**Unit Cost**	**Program Cost**
Magnetic Data Inversion	30 days - 1 geophysicist	$1,000 per day	$ 30,000
Ground magnetics	20 days - 1 geophysicist, 1 asst.	$2,000 per day	$ 40,000
Geological mapping	20 days - 2 geologists (1Sr, 1Jr)	$2,000 per day	$ 40,000
Trail/Platform construction	10 km/50 days - road contractor	$5,000 per day	$ 250,000
Mechanized trenching	15 sites/50 days - excavator	$2,500 per day	$ 125,000
Trail/Trench supervision	50 days - 1 site manager, 1 asst.	$2,000 per day	$ 100,000
Geochemistry	100 rock samples - ICP,Au,S,Mt	$100 per sample	$ 10,000
Geochemical standards	15,000 standards - consultant	$2 per standard	$ 30,000
Diamond Drilling	25 sites/12,500 m. - contractor	$200 per metre	$ 2,500,000
Technical Reports	40 days - 1 geologist, 1 asst.	$1,500 per day	$ 60,000
Contingency	estimate		$ 65,000
Subtotal Bugaboo			**$ 3,250,000**
Reko and Lens Areas			
Item	**Units**	**Unit Cost**	**Program Cost**
GIS Data Compilation	50 days - GIS consultants	$1,000 per day	$ 50,000
Claim acquisitions	150 cell claim units	$2,000 per unit	$ 300,000
Prospecting/Sampling	50 days - 2 geol., 2 prospectors	$5,000 per day	$ 250,000
Ground magnetics	20 days - 1 geophysicist, 1 asst.	$2,000 per day	$ 40,000
Geological mapping	20 days - 2 geologists (1Sr, 1Jr)	$2,000 per day	$ 40,000
Geochemistry	500 rock/moss - ICP,Au+/-S,Mt	$50 per sample	$ 25,000
Contingency	estimate		$ 45,000
Subtotal Reko and Lens			**$ 750,000**
Total			**$ 4,000,000**

Future work programs would be contingent on results from the immediate work program, and would probably consist of additional detailed GPS grid-based geological mapping, possibly soil geochemistry, and ground magnetic and/or gravity surveys, followed by mechanized trenching and drilling.

Respectfully submitted by:



Jacques Houle, P.Eng. January 12, 2016

Author's Qualifications

I, Jacques Houle, P.Eng. Do hereby certify that:

I am currently self-employed as a consulting geologist by:
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6552 Peregrine Road, Nanaimo, British Columbia, Canada V9V 1P8

I graduated with a Bachelor's of Applied Science degree in Geological Engineering with specialization in Mineral Exploration from the University of Toronto in 1978.

I am a member in good standing with the Association of Professional Engineers and Geoscientists of British Columbia, the Society of Economic Geologists, the Association for Mineral Exploration British Columbia, and the Vancouver Island Exploration Group; I am also a member of the Technical Advisory Committee for Geoscience B.C., and of the advisory committee for the Earth Science Department of Vancouver Island University.

I have worked as a geologist for 37 years since graduating from university, including 5 years as a mine geologist in underground gold and silver mines, 15 years as an exploration manager, 3 years as a government geologist and 12 years as a mineral exploration consultant.

I am independent of Canadian Dehua International Mining Group Inc and its affiliated companies, and hold no interest in the subject property of this report.

References

B. C. Ministry of Energy and Mines websites:

Assessment Reports
http://www.empr.gov.bc.ca/Mining/Geoscience/ARIS/Pages/default.aspx

MapPlace
http://www.empr.gov.bc.ca/Mining/Geoscience/MapPlace/Pages/default.aspx

Mineral Deposit Profiles
http://www.empr.gov.bc.ca/Mining/Geoscience/MineralDepositProfiles/Pages/default.aspx

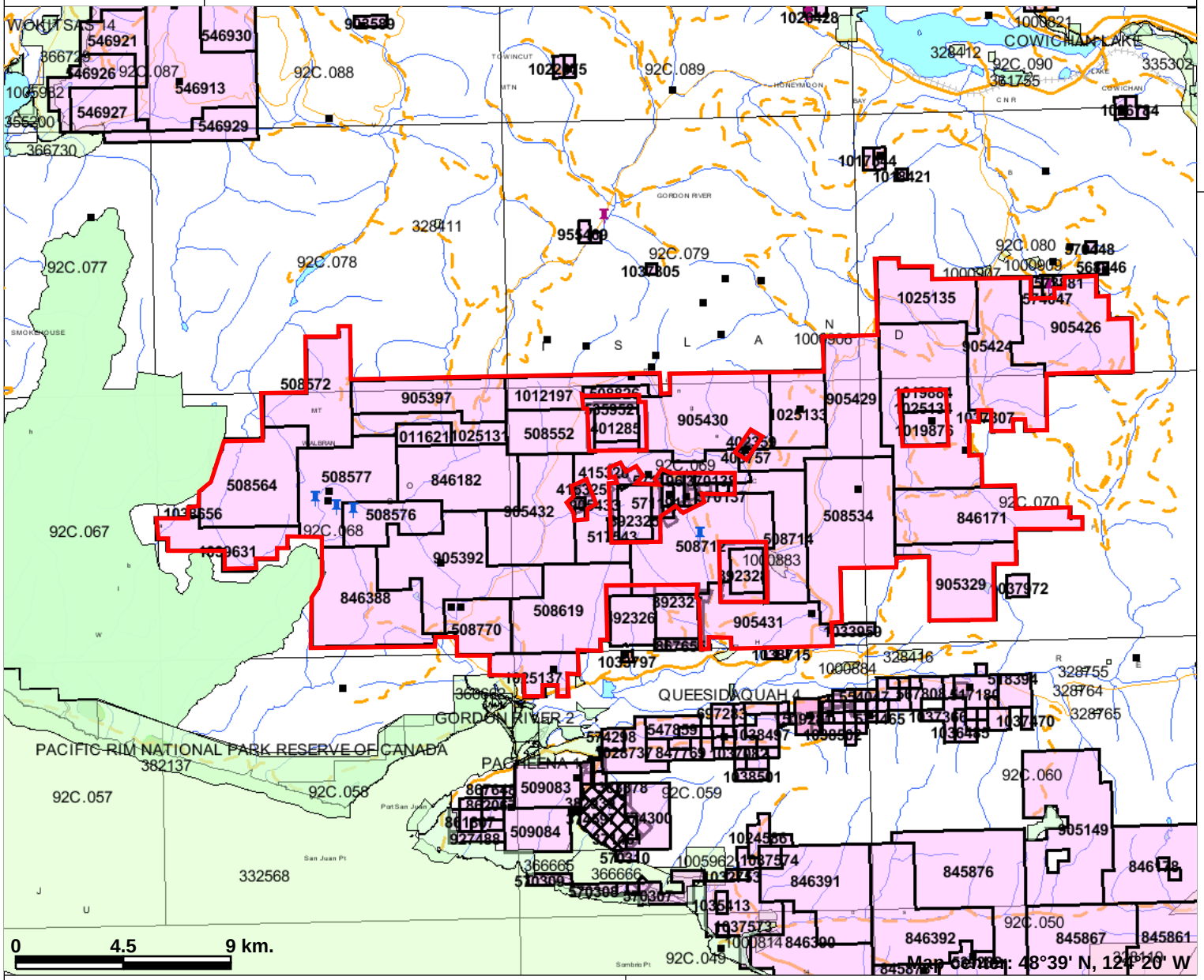
MINFILE
http://www.em.gov.bc.ca/Mining/Geolsurv/Minfile/

Property File
http://www.empr.gov.bc.ca/mining/geoscience/propertyFile/Pages/default.aspx

Ministry Publications
http://www.empr.gov.bc.ca/Mining/Geoscience/PublicationsCatalogue/Pages/default.aspx

Mineral Titles Online
https://www.mtonline.gov.bc.ca/mtov/home.do

Bugaboo-Reko Iron Property



Legend

MINFILE Status
- Producer
- Past Producer
- Developed Prospect
- All others

Indian Reserves
National Parks
Conservancy Areas
Parks
Federal Transfer Lands

Mineral Tenure (current)
- Mineral Claim
- Mineral Lease

Mineral Reserves (current)
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others

First Nations Treaty Related Lands
First Nations Treaty Lands
BCGS Grid
Annotation (1:250K)

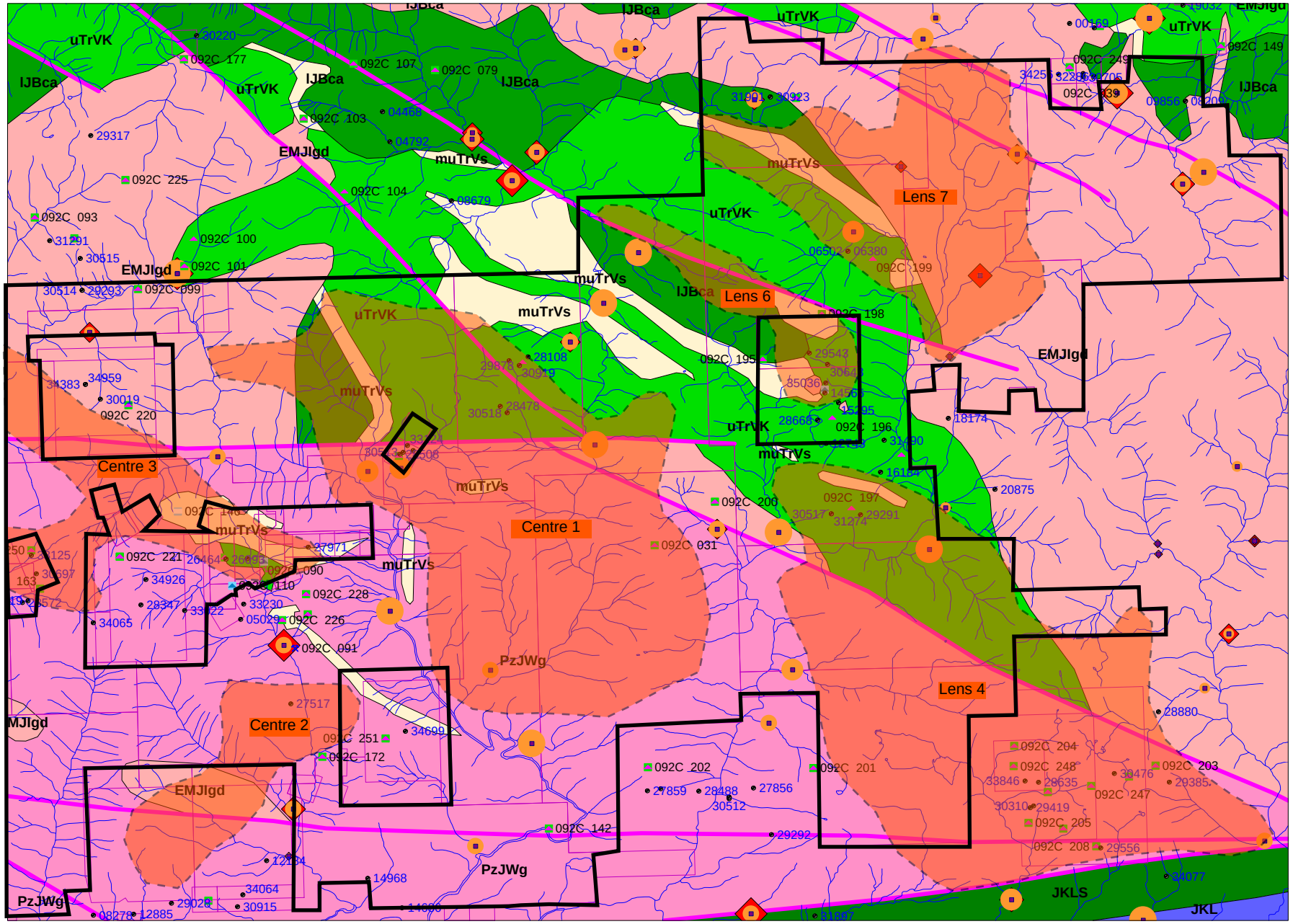
Transportation - Points (1:250K)
- Airfield
- Anchorage - Seaplane
- Ferry Route
- Heliport

N

Scale: 1:250,000

Bugaboo-Reko Iron Property

Figure 1



Geology, MINFILE, ARIS, RGS, 1st Vertical Derivative Aeromagnetics and Topography Layers from BC MapPlace

SCALE 1 : 100,000

2 0 2 4 6

KILOMETERS

BC RGS Sample Site

BC RGS Gold Anomaly

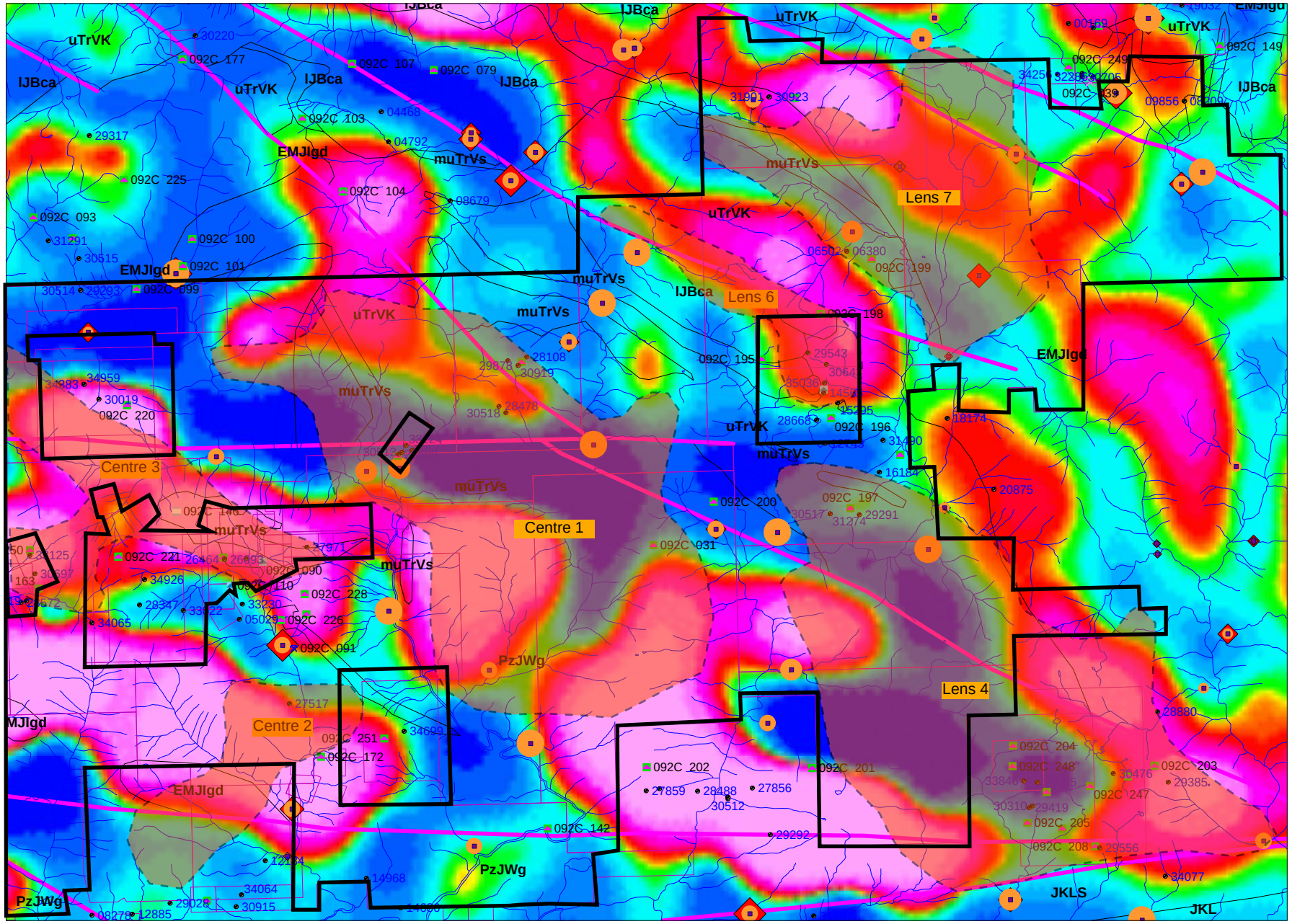
BC RGS Copper Anomaly

Remote Sensing Iron Oxide, Iron Sulphide & Copper Sulphide Spectra Cluster

N

Figure 2a

Bugaboo-Reko Iron Geology



Geology, MINFILE, ARIS, RGS, 1st Vertical Derivative Aeromagnetics and Topography Layers from BC MapPlace

SCALE 1 : 100,000

2 0 2 4 6

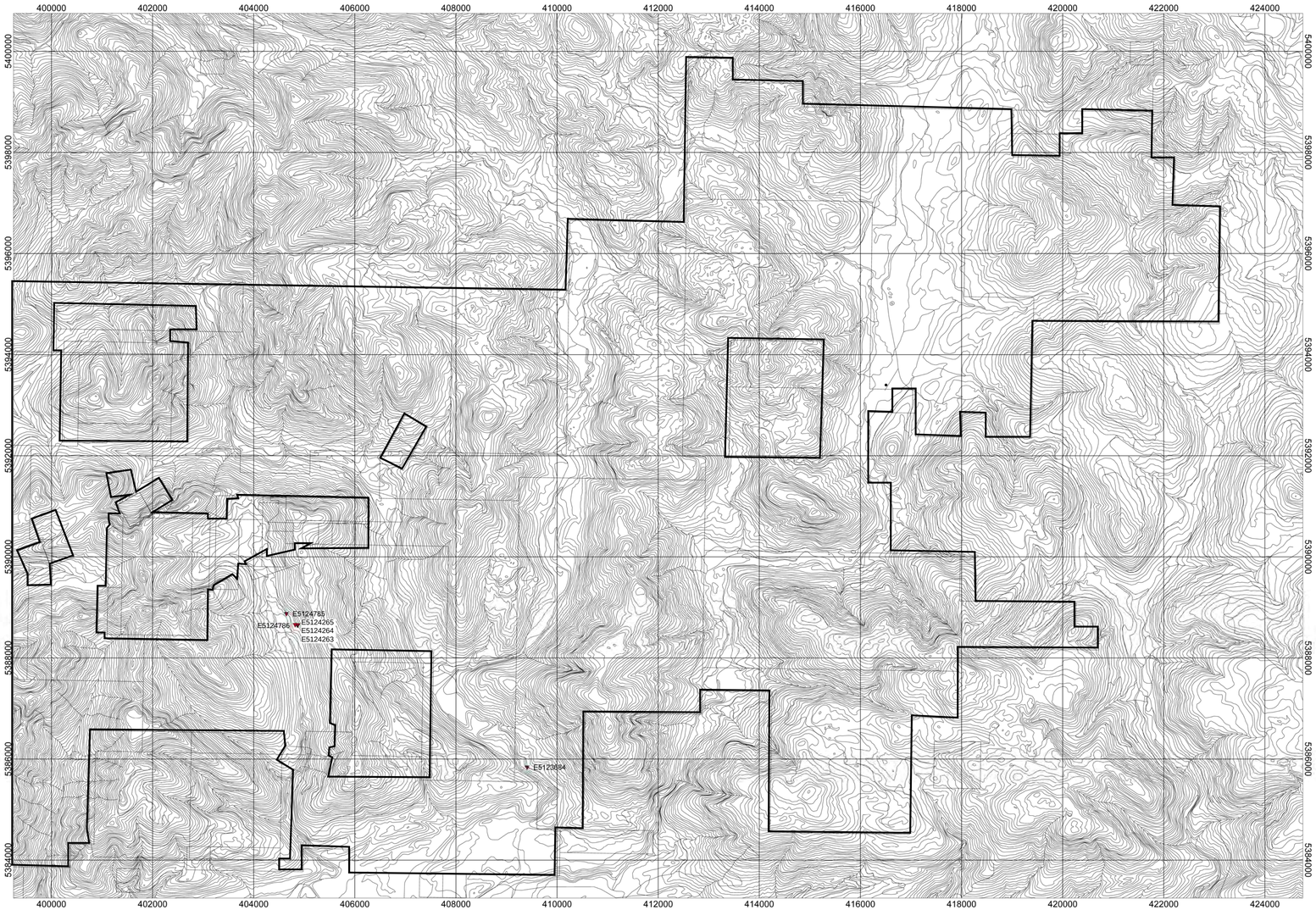
KILOMETERS

- BC RGS Sample Site
- BC RGS Gold Anomaly
- BC RGS Copper Anomaly
- Remote Sensing Iron Oxide, Iron Sulphide & Copper Sulphide Spectra Cluster

N

Figure 1b

Bugaboo-Reko Iron Magnetics



Scale 1:50000

1000 0 1000 2000 3000

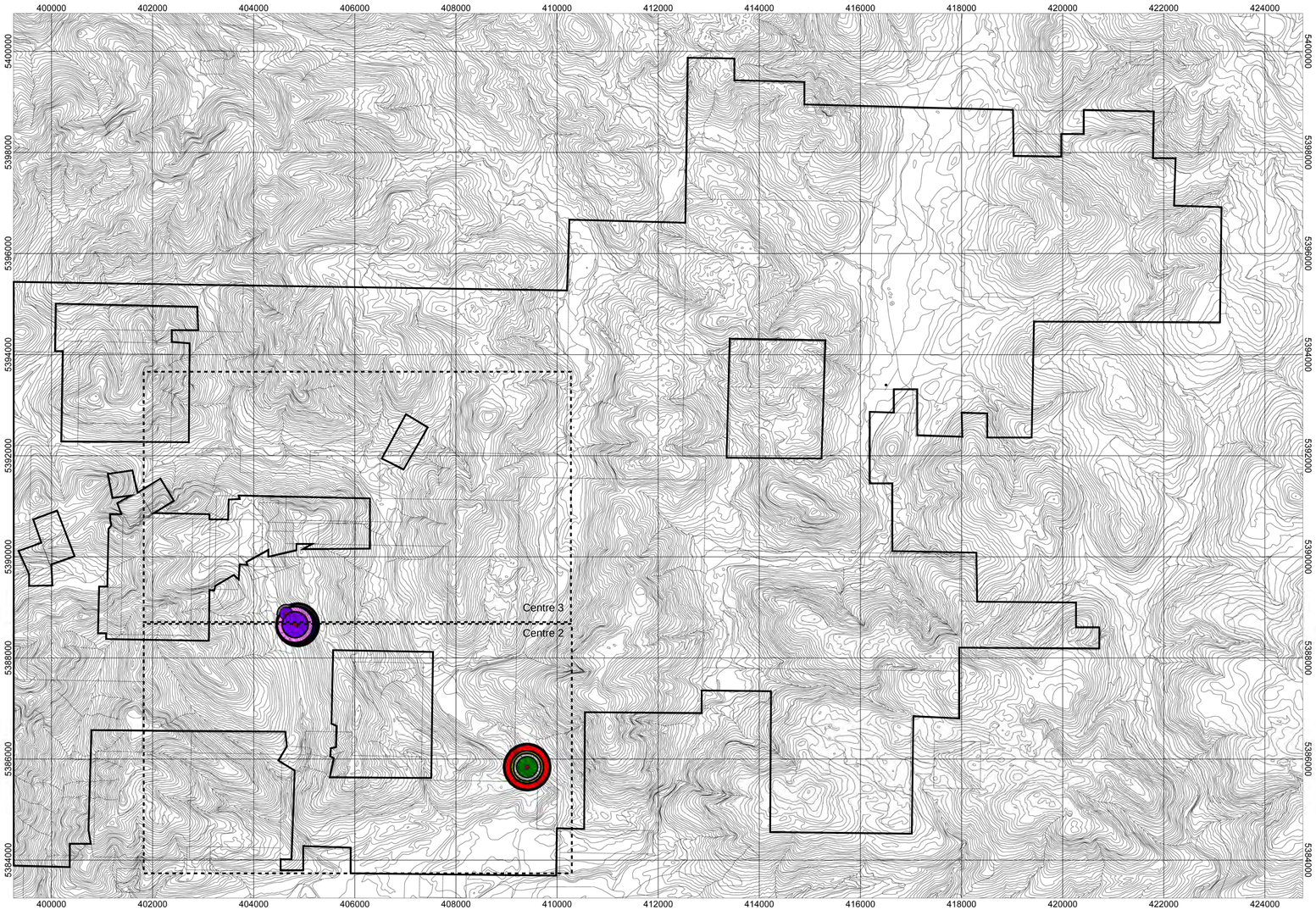
(meters)

NAD83 / UTM zone 10N

▼ 2015 Rock Sample Location/Number

Figure 3a

Pioneer Exploration Corporation
Bugaboo-Reko Iron **2015 Sampling**



Gold ppm in Rocks: 0.15, 0.1, 0.05

Silver ppm in Rocks: 15, 10, 5

Cobalt ppm in Rocks: 750, 500, 250

Chromium ppm in Rocks: 225, 150, 75

Copper ppm in Rocks: 22500, 15000, 7500

Nickel ppm in Rocks: 300, 200, 100

Zinc ppm in Rocks: 600, 400, 200

Magnetite Percent in Rocks: 75, 50, 25

Scale 1:50000

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(meters)

NAD83 / UTM zone 10N

2015 Rock Sample Location

Figure 3b

Pioneer Exploration Corporation

Bugaboo-Reko Iron
2015 Sampling

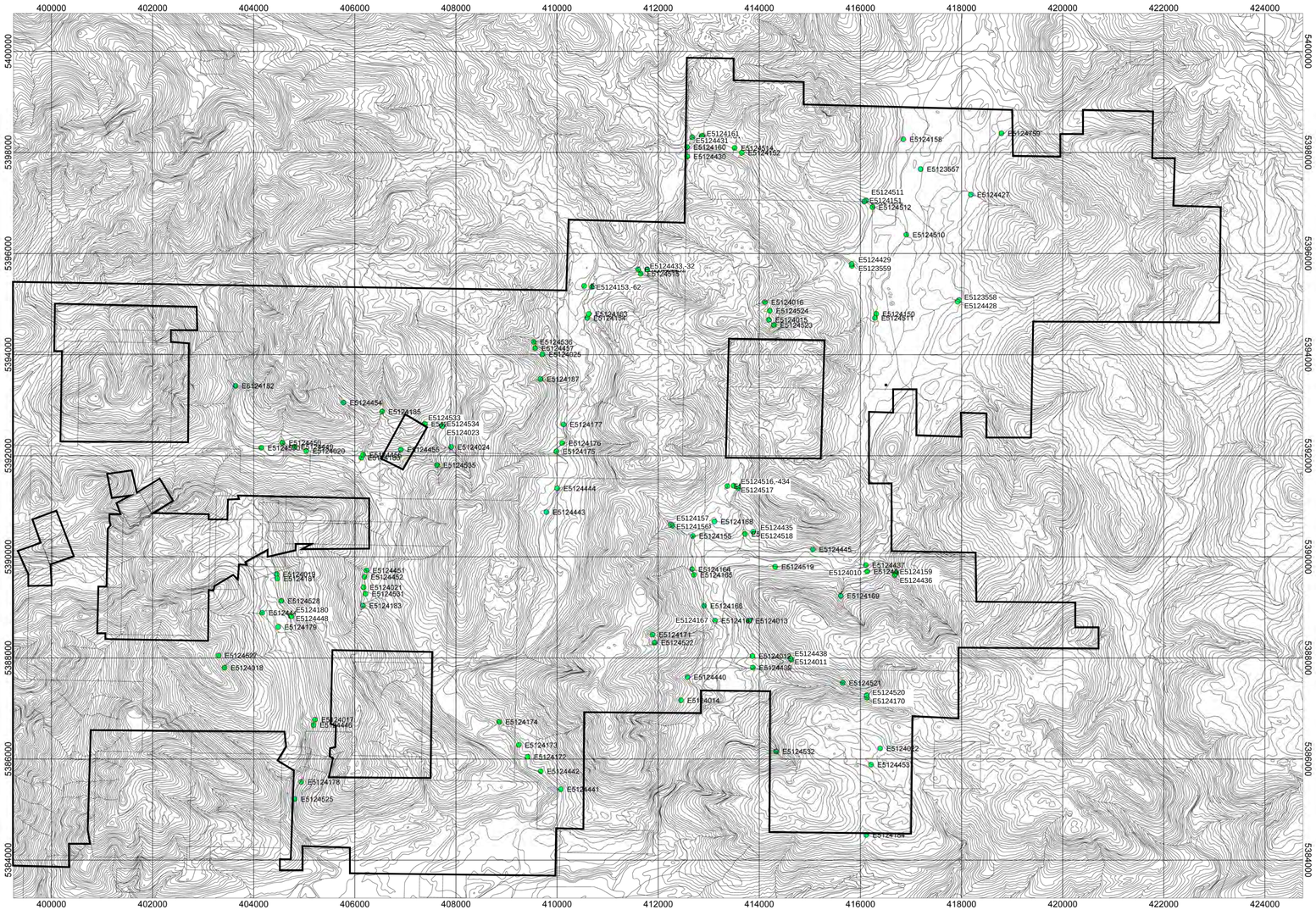
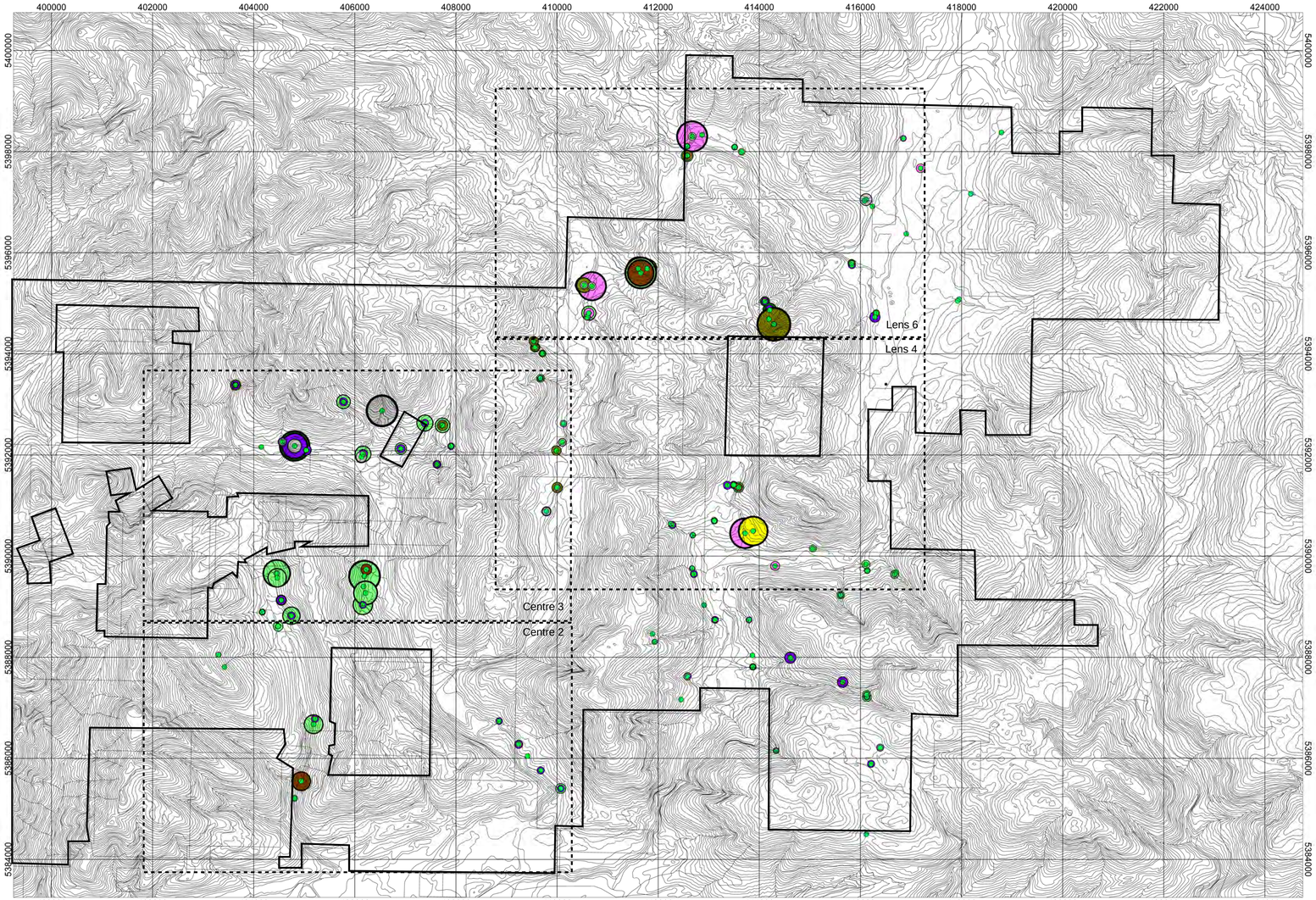


Figure 3c

Pioneer Exploration Corporation
Bugaboo-Reko Iron **2015 Sampling**



Scale 1:50000

1000 0 1000 2000 3000

(meters)

NAD83 / UTM zone 10N

2015 Stream Moss Mat Sample Location

Gold ppm in Stream Moss Mats

0.9
0.6
0.3

Silver ppm in Stream Moss Mats

1.2
0.8
0.4

Arsenic ppm in Stream Moss Mats

60
40
20

Cadmium ppm in Stream Moss Mats

3
2
1

Nickel ppm in Stream Moss Mats

180
120
60

Lead ppm in Stream Moss Mats

75
50
25

Tellurium ppm in Stream Moss Mats

3
2
1

Tungsten ppm in Stream Moss Mats

15
10
5

Zinc ppm in Stream Moss Mats

375
250
125

Figure 3d

Pioneer Exploration Corporation

Bugaboo-Reko Iron
2015 Sampling

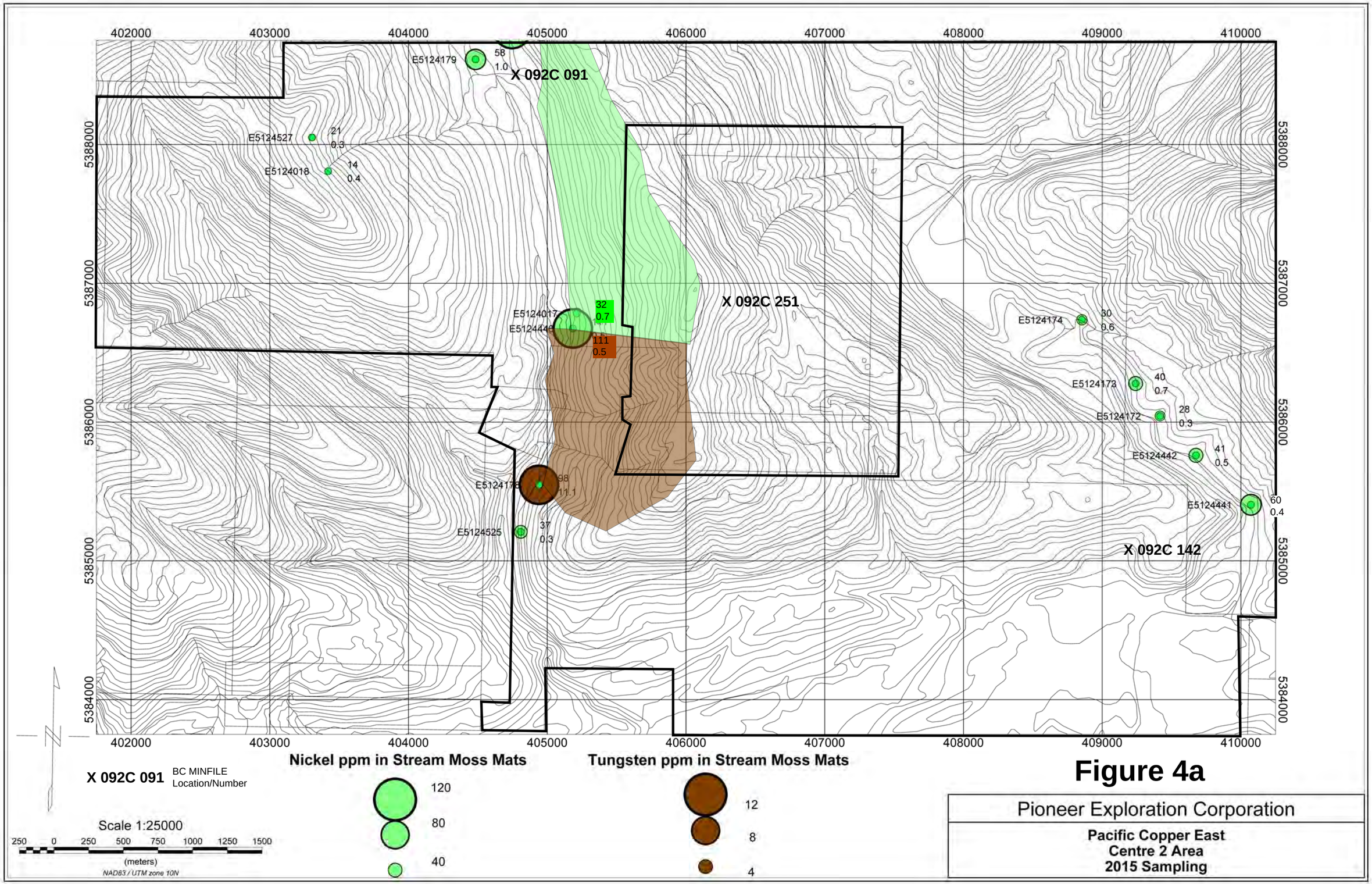


Figure 4a

Pioneer Exploration Corporation

Pacific Copper East
Centre 2 Area
2015 Sampling

Sample #	Au ppm	Ag ppm	Cu ppm	Zn ppm	Mt%
E5124786	0.009	0.61	2930	513	44.6
E5124263	0.020	2.35	1750	261	66.1
E5124265	0.007	0.29	698	377	83.6
E5124264	0.021	0.55	3390	281	36.2

X 092C 091

X 092C 251

X 092C 172

E5123684
0.129 ppm Au
16.5 ppm Ag
27200 ppm Cu
83 ppm Zn

X 092C 142

402000 403000 404000 405000 406000 407000 408000 409000 410000

5388000 5387000 5386000 5385000 5384000

X 092C 091 BC MINFILE Location/Number

Scale 1:25000

250 0 250 500 750 1000 1250 1500

(meters)

NAD83 / UTM zone 10N

Gold ppm in Rocks	Silver ppm in Rocks	Copper ppm in Rocks	Zinc ppm in Rocks	Magnetite % in Rocks
0.12	15	27000	525	75
0.08	10	18000	350	50
0.04	5	9000	175	25

Figure 4b

Pioneer Exploration Corporation

Pacific Copper East
Centre 2 Area
2015 Sampling

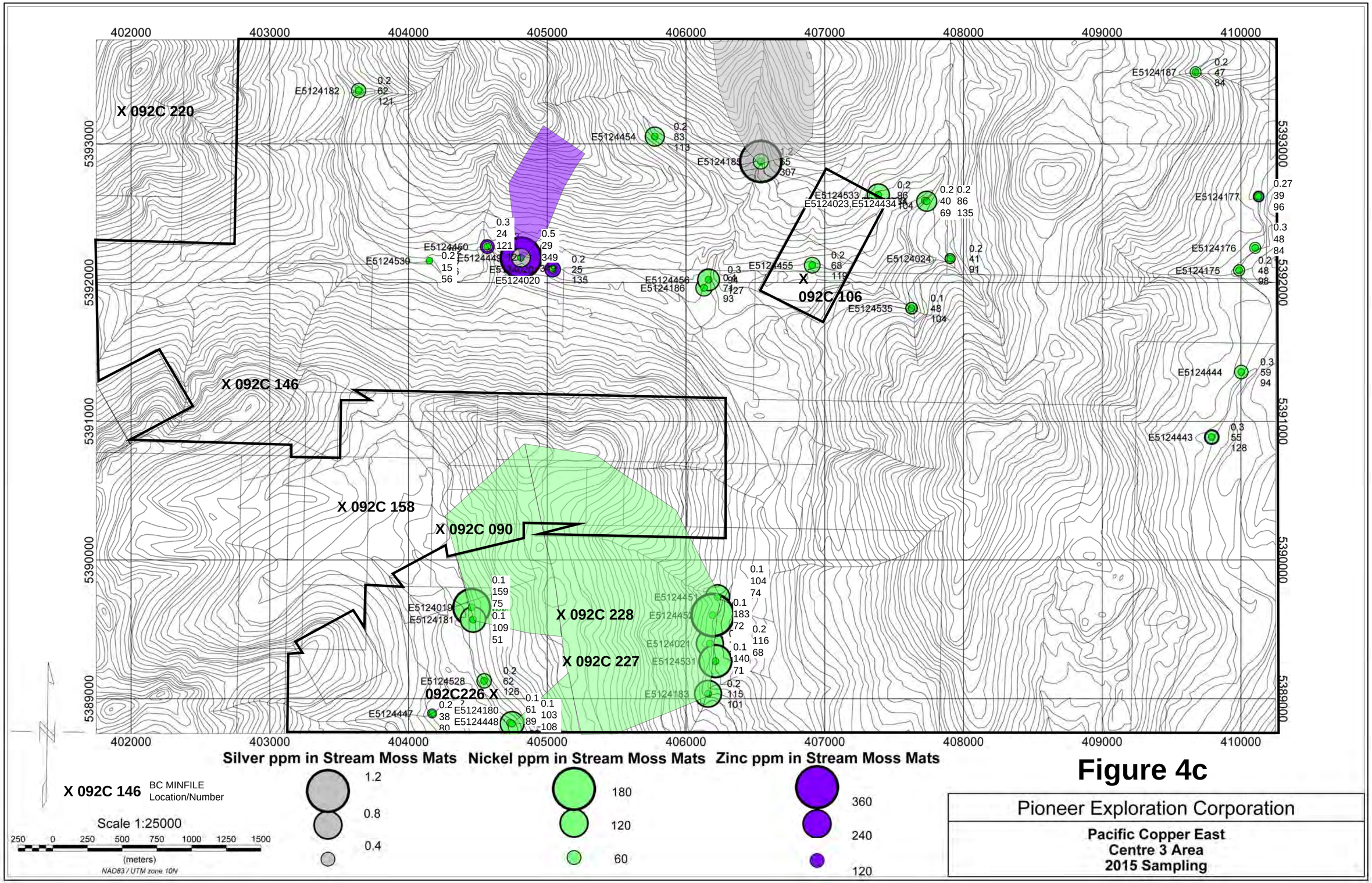


Figure 4c

Pioneer Exploration Corporation

Pacific Copper East
Centre 3 Area
2015 Sampling

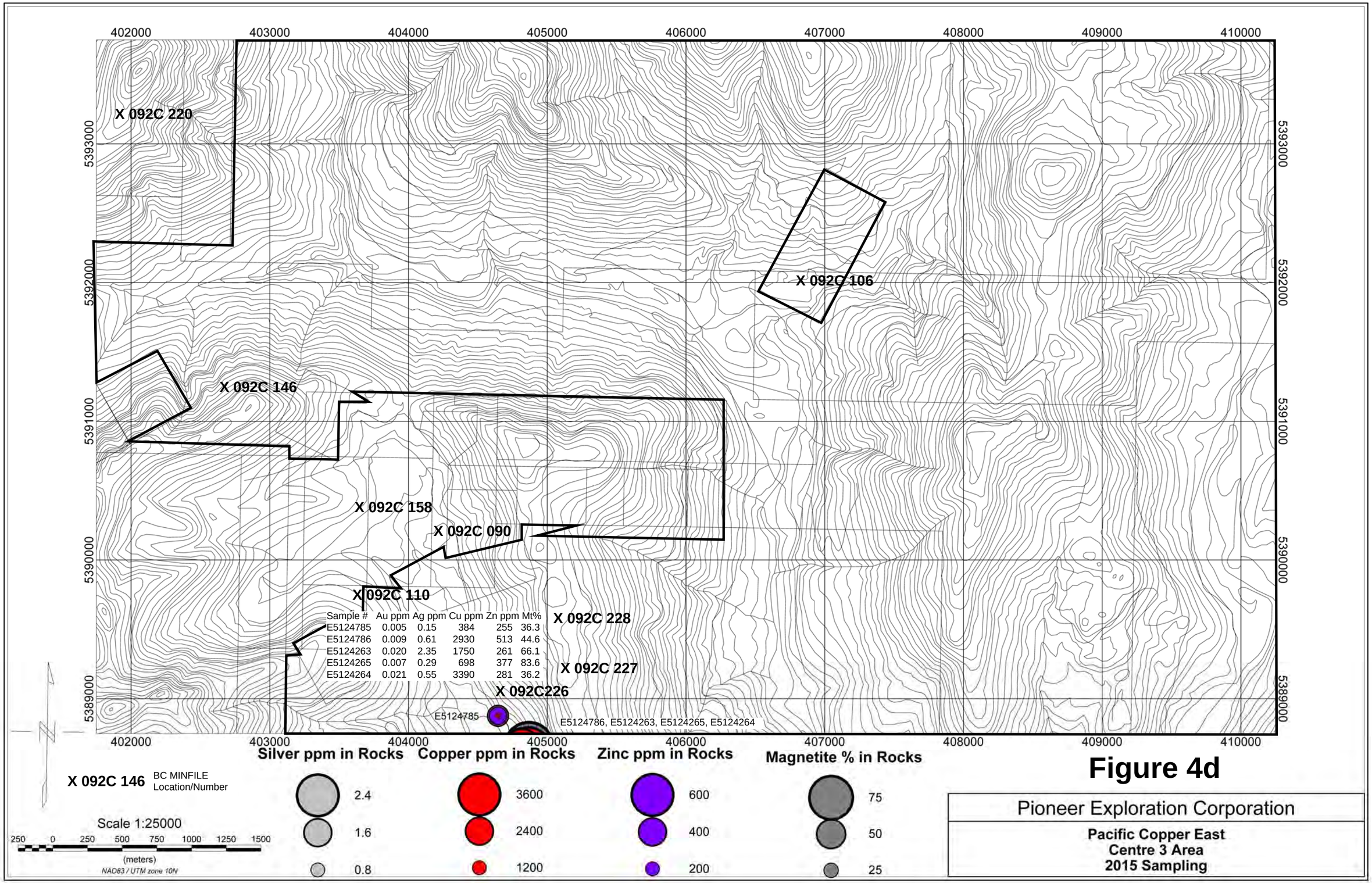


Figure 4d

Pioneer Exploration Corporation

Pacific Copper East
Centre 3 Area
2015 Sampling

409000 410000 411000 412000 413000 414000 415000 416000 417000

5394000 5393000 5392000 5391000 5390000

X 092C 085

E5124457 0.008
E5124025 0.09 0.002 0.07
E5124187 0.002 0.05
E5124177 0.001 0.05
E5124176 -0.001 0.08
E5124175 0.001 0.25
E5124444 0.014 0.09
E5124443 0.021 0.09

X 092C 195

X 092C 012

X 092C 196

X 092C 147

E5124516, E5124434 -0.001, -0.001
E5124517 -0.001 0.05, 0.34

X 092C 200

X 092C 197

E5124157 0.101
E5124156 0.06 -0.001 0.07
E5124155 -0.001 0.05
E5124168 0.003 0.16
E5124435 0.855
E5124516 2.94 0.23

X 092C 031

E5124445 -0.001 0.08
E5124519 -0.001 0.90
E5124164 -0.001 0.51
E5124165 -0.001 0.27
E5124437 0.007 0.15
E5124010 -0.001
E5124159 -0.001
E5124436 -0.03 0.22
0.002

409000 410000 411000 412000 413000 414000 415000 416000 417000

Gold ppm in Stream Moss Mats

0.9
0.6
0.3

Tellurium ppm in Stream Moss Mats

3
2
1

X 092C 031 BC MINFILE Location/Number

Scale 1:25000

250 0 250 500 750 1000 1250 1500

(meters)

NAD83 / UTM zone 10N

Figure 4e

Pioneer Exploration Corporation

Pacific Copper East
Lens 4 Area
2015 Sampling

409000 410000 411000 412000 413000 414000 415000 416000 417000

5399000 5398000 5397000 5396000 5395000

X 092C 164

X 092C 199

X 092C 198

6.7 2.98 22 3.2 E5124431

6.6 0.08 17 1.2 E5124161

11.8 1.2 30 E5124160

11.8 0.06 30 1.2

0.6 71 E5124430

19.2 0.08 71 0.6

5.9 14 E5124514

0.06 1.5 0.06 1.0 E5124152

1.5 12 0.03 0.8 E5124158

-0.2 9 0.87 1.5 E5123557

-0.2 11 0.04 0.4

2.1 16 0.06 1.4 E5124151 E5124513

0.09 1.4 E5124512

1.1 17 0.09 1.4

6.7 17 0.14 1.2 E5124510

29.1 101 0.09 0.8

8.8 135 0.53 0.7

9.0 112 1.04 1.0 E5124433 E5124432

E5124515

29.1 101 E5124153 E5124162

10.2 132 2.79 1.6

7.1 183 0.06 15.4

13.4 34 0.08 2.1 E5124154

9.6 84 1.00 1.0

18.6 E5124536

13.3 28 0.08 1.5 1.2 E5124429 E5123559

3.3 30 0.13 0.6 E5124016

0.19 0.4 E5124424

17.9 14 0.24 1.3

64.9 17 0.37 1.3 E5124523

5.7 37 0.23 0.9

13.3 28 0.1 1.5

13.3 28 0.10 0.9 E5124150 E5124511

Arsenic ppm in Stream Moss Mats

60 40 20

Nickel ppm in Stream Moss Mats

180 120 60

Tellurium ppm in Stream Moss Mats

3 2 1

Tungsten ppm in Stream Moss Mats

15 10 5

X 092C 164 BC MINFILE Location/Number

Scale 1:25000

250 0 250 500 750 1000 1250 1500

(meters)

NAD83 / UTM zone 10N

Figure 4f

Pioneer Exploration Corporation

Pacific Copper East
Lens 6 Area
2015 Sampling

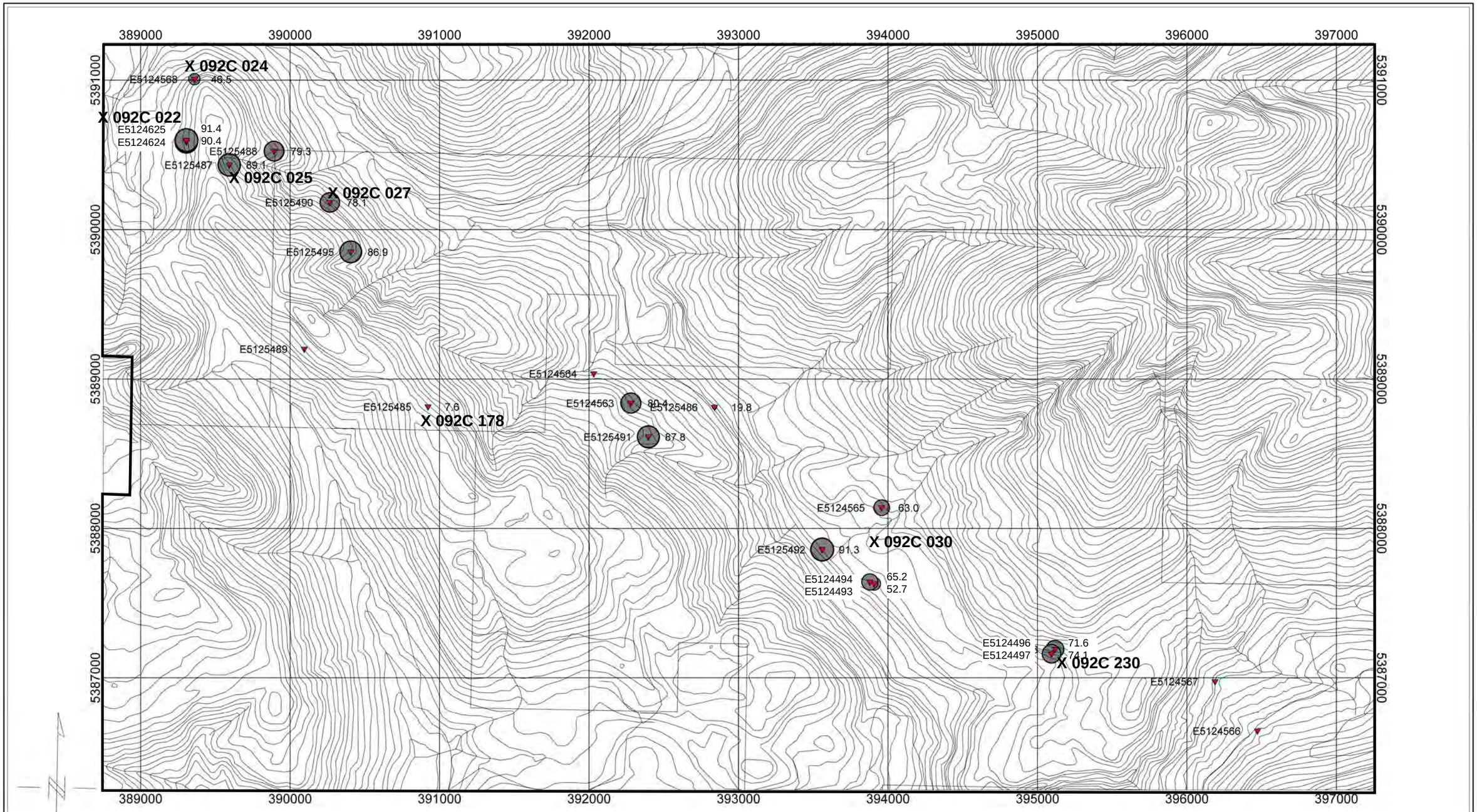
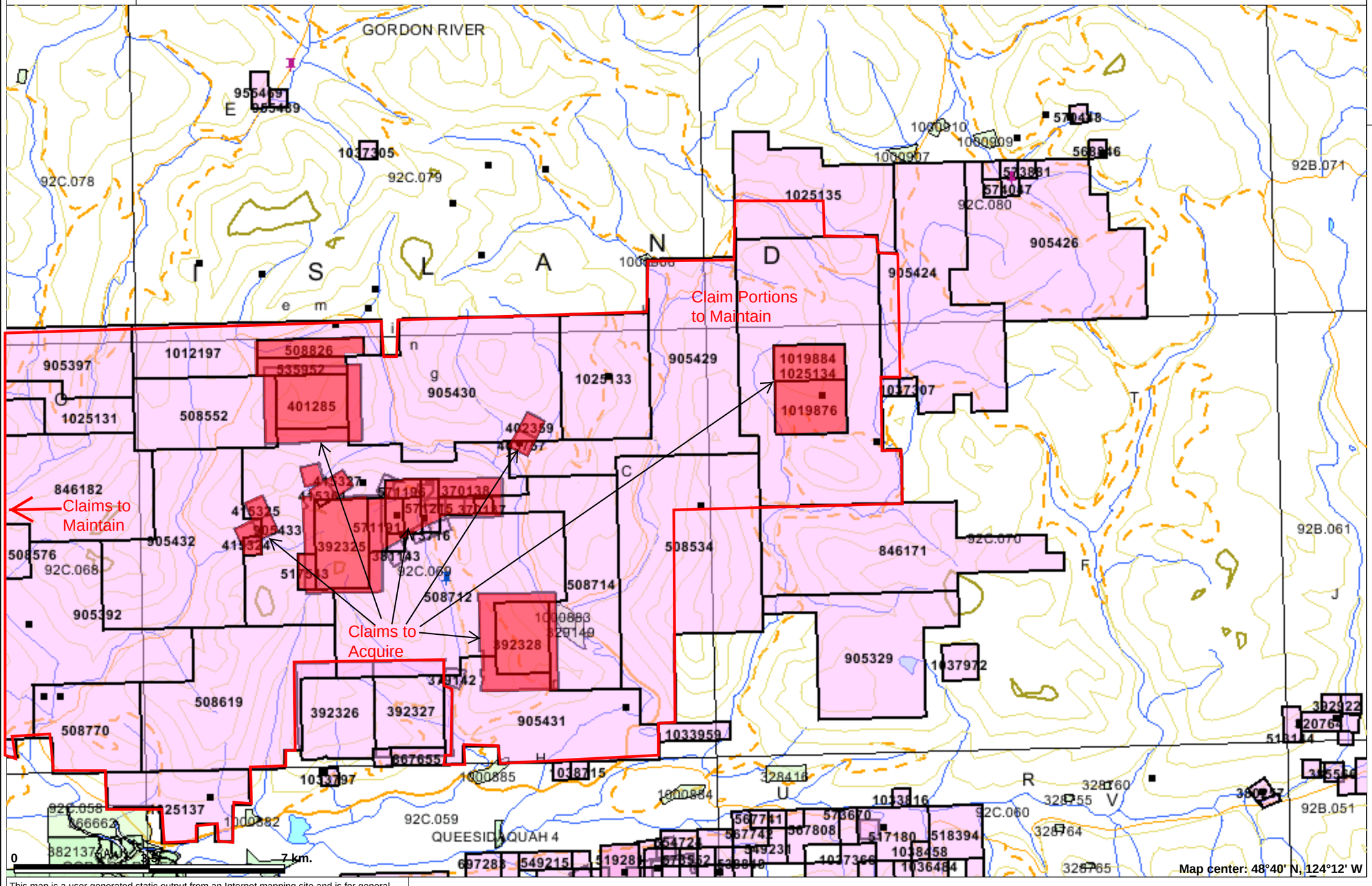


Figure 4g

Pioneer Exploration Corporation

Bugaboo-Reko Iron
Bugaboo Area
2014-2015 Sampling

Bugaboo-Reko Iron



Legend

MINFILE Status
- Producer
- Past Producer
- Developed Prospect
- All others

Indian Reserves
National Parks
Conservancy Areas
Parks
Federal Transfer Lands

Mineral Tenure (current)
- Mineral Claim
- Mineral Lease

Mineral Reserves (current)
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve Release Required Reserve
- Surface Restriction
- Recreation Area
- Others

First Nations Treaty Related Lands
First Nations Treaty Lands
BCGS Grid

Contours (1:250K)
- Contour - Index
- Contour - Intermediate
- Areaof Exclusion
- Areaof Indefinite Contours

Annotation (1:250K)

Transportation - Points (1:250K)
- Airfield
- Anchorage - Seaplane
- Ferry Route
- Heliport
- Seaplane Base
- Air Field
- Airport
- Air Feature - Condition Unknown
- Airport.Abandoned

Transportation - Lines (1:250K)
- Ferry Route
- Aerial Cableway
- Road (Gravel Undivided) - 1 Lane
- Road (Gravel Undivided) - 3 Lanes
- Road - Paved.lanes.2or More.Divided
- Road (Paved Undivided) - Not Elevated - 1 Lane
- Road (Paved Undivided) - Not Elevated - 2 Lanes

Recommended Claims to Maintain and to Acquire

Figure 5

Appendix 1

Prospecting, Sampling and Geochemistry Data

Rock Sample Locations for Pacific Iron Project

Sample #	Date	Sampler	Property	Location	Details	UTM Zone	Easting	Northing	Elevation
E5123684	06-Nov-15	C. Broda	Bugaboo-Reko Iron	Center 1 & 2 between moss mat sites 21 and 20. O/c on road cut on east side of Pacific Marine Route.	Pinch and swell qtz vein (mineralized Cpy) sub parallel set taken from the northern of the two veins, possible dialation structure at 145/80	10N	409408	5385841	75
E5124263	08-Nov-15	R. Bilquist	Bugaboo-Reko Iron	just to east of Granite Main (Reco 10); series of 3 grab samples from "pod" of skarn mineralization - pyrrhotite, magnetite +/- chalcopyrite	grab from outcrop iron skarn exposure about 1.25 by 2.7 meters contacting (284-84) marblized limestone possible bedding (135-10); 60% magnetite, 40% pyrrhotite, trace chalcopy. Skarn cuts bedding. Magnetite grain size < .5 mm.	10N	404867	5388647	393
E5124264	08-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Location as above; sample from another part of 'pod' skarn mineralization (see sketch)	grab from outcrop iron skarn exposure about .65 by 1.3 meters; about 40% patchy magnetite, 2% chalcopyrite and trace pyrrhotite, unknown mineral rest of rock	10N	404872	5388650	395
E5124265	08-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Location as above; sample from another part of 'pod' skarn mineralization (see sketch)	grab from outcrop iron skarn exposure about 3.5 by 2.5 meters; approximately 100% magnetite with a trace of chalcopyrite.	10N	404868	5388656	395
E5124785	07-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	On Granite Main, near moss mat location no. 50 (Minfile 092C 226). Select grab from o/c at side of road. Old (2009) sample tag no. 280157.	Patchy magnetite as a resistant knob (.78m x .55m) with assoc. pyrrhotite (2%), pyrite (1%), chalcopyr. (trace); in lmstn (080/23) at contact with intermediate intrusive.	10N	404645	5388877	389
E5124786	08-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Off Granite Main (Reco 10); select grab at road side o/c of chloritized brecciated interm. intrusive w/ patchy magnetite and minor sulphides	Massive magnetite (80 %) fine to coarse grained; also 1% pyrite, trace pyrrhotite and chalcopyrite. o/c has weakly developed foliation at 350/23.	10N	404820	5388659	381
E5123624	13-Nov-15	Cody Broda	Bugaboo-Reko Iron	Bugaboo Area - David Showing south end	Select outcrop grab from 7 m. wide exposure of magnetite skarn containing 95% Mt, 1% FeOx relict bedding @ 314/52	10N	389306	5390588	562
E5123625	13-Nov-15	Cody Broda	Bugaboo-Reko Iron	Bugaboo Area - David Showing north end	Select outcrop grab from 7 m. wide exposure of magnetite skarn containing 95% Mt, 2% FeOx	10N	389307	5390599	564

Rock Sample Descriptions for Pacific Iron Project	
Sample #	**Descriptions**
E5123684	Grey-pink and green, massive quartz-sulphide breccia vein with banded selvidges in f.g. foliated, chloritic mafic volcanics with 20% chloritic wall rock fragments and 2% c.g. fractured chalcopyrite clusters in vein
E5124263	Black and locally bronze, f.g., massive Fe/Cu skarn containing 80% (early) magnetite, 15% (later) sulphide clusters including 8% pyrrhotite, 4% chalcopyrite, 2% sphalerite, 1% bornite, and 5% silicates including actinolite and chlorite
E5124264	Black, bronze and orange, f.g., massive Fe/Cu skarn containing 75% (early magnetite, 10% (later) sulphide clusters & stringers including 6% pyrrhotite, 3% chalcopyrite, 1% sphalerite; 15% silicates including epidote, garnets & quartz
E5124265	Black and locally bronze, f.g., massive and friable Fe/Cu skarn containing 75% magnetite, 10% sulphides clustered with 15% silicates including 5% pyrrhotite, 5% chalcopyrite, 10% epidote and 5% garnets
E5124785	Black, pink, yellow and green, f.g. to m.g., zoned Silicate/Cu/Fe skarn containing 60% silicates including garnets, diopside, quartz and actinolite, 15% sulphides including 10% pyrite/pyrrhotite, 5% chalcopyrite; and 25% magnetite
E5124786	Black, green and pink, f.g. to m.g., zoned Fe/Silicate/Cu skarn containing 60% magnetite, 25% silicates including garnets, diopside, quartz and epidote, 15% sulphides including 10% pyrite/pyrrhotite, 5% chalcopyrite
E5123624	Black and green, f.g., massive Fe Skarn containing 95% magnetite, 4% silicate clusters and thin stringers mainly diopside, and 1% rusty boxwork structures (after sulphides?)
E5123625	Black and green, f.g. to m.g., massive Fe Skarn containing 98% magnetite, 2% silicate clusters and thin stringers mainly diopside

Rock Sample Geochemistry Highlights for Pacific Iron Project																		
Sample #	Easting	Northing	Elevation	Au (ppm)	Ag (ppm)	Ba (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Ni (ppm)	Zn (ppm)	Al (%)	Ca (%)	K (%)	Na (%)	Fe (%)	Magnetic (%)	S (%)
E5123684	409408	5385841	75	0.129	16.5	6	22.9	208	27200	35.7	83.4	1.97	0.75	<0.01	0.12	5.94		1.97
E5124263	404867	5388647	393	0.02	2.35	17	739	14.6	1750	178	261	0.35	1.72	0.01	0.02	46.2	66.1	>10
E5124264	404872	5388650	395	0.021	0.55	10	197	38.9	3390	45	281	1.02	8.26	<0.01	0.02	32.8	36.2	4.81
E5124265	404868	5388656	395	0.007	0.29	10	181	41.9	698	38.7	377	0.28	0.82	<0.01	<0.01	>50	83.6	2.87
E5124785	404645	5388877	389	0.005	0.15	5	88.4	82.8	384	83.9	255	2.16	11	<0.01	0.02	30.4	36.3	2.03
E5124786	404820	5388659	381	0.009	0.61	36	147	72.9	2930	288	513	2.22	7.64	0.01	0.02	35.4	44.6	2.15
E5123624	389306	5390588	562	0.009	0.3	0.08	43	<0.5	95.1	3.4	108	0.1	0.61	<0.01	0.01	68.4	90.1	0.17
E5123625	389307	5390599	564	0.017	0.28	0.14	25.3	<0.5	180	0.8	65.2	0.08	0.37	0.01	0.01	71.3	91.4	0.06
Averages for 7 Fe/Cu Skarn Samples				0.013	0.65	11.2	203.0	50.2	1347	91.1	265.7	0.89	4.35	0.01	0.02	47.4	64.0	2.02

GPS Locations for Pacific Iron Project

Waypoint	Date	Taken By	Property	Location	Details	UTM Zone	Easting	Northing	Elevation
CBMRP01	06-Nov-15	C. Broda	Bugaboo-Reko Iron	on PMR on NE side of road, center 1 & 2 between moss mat site 22 and 21	o/c meta volc, localized qtz pinch and swell structures, trace py in vein material, trace py in host (disseminated), black fine grained meta volc.	10N	409775	5385614	74
E5124442	06-Nov-15	C. Broda	Bugaboo-Reko Iron	In Creek bed at moss mat site E5124442	Skarn boulder, 2.5 ft x 1.5 ft x 2 ft, 2 - 3% sulphide (py_, trace cpy, 10- 15% magnetite, pervasive actinolite alteration	10N	409676	5385760	69
CBGRA01	08-Nov-15	C. Broda	Bugaboo-Reko Iron	In ditch up GRA6200 on west side of road	Mineralized recrystalized lmst, remobilized sulphides in patchy thin layers, parallels orientation of lmst 120/52. Sulphide minor component of o/c (py>>cpy) and is localized.	10N	403953	5389607	462
RB02	08-Nov-15	R. Bilquist	Bugaboo-Reko Iron	at reclaimed trench, south pit, Reco 10	possible drill hole location; vertical post with flagging	10N	404669	5388571	353
RB03	08-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Reco 10, old pit area; east side main	old grid station; #280152, 2009	10N	404817	5388636	407
RB03	08-Nov-15	R. Bilquist	Bugaboo-Reko Iron	granite 6200 at junction with spur to west	fractured volcanic and granite with parallel quartx veinlets (3 to 10 mm) and with small pods and masses of pyrite and magnetite (chalcopyrite traces?)/ trends 176-70	10N	404022	5389331	456
DD Casing	08-Nov-15	J. Houle	Bugaboo-Reko Iron	Reko 10 Area east of showings	A size drill casing @ 235/75 in ground	10N	404615	5388608	310
No.23	09-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	O/C on road side, near Maid Lake (Centre 1 & 2)	Pyrite: dissem. Patchy trace to 5% in felsic dyke (1m+ wide)	10N	415985	5386311	720

Stream Moss Mat and Silt Sample Locations for Pacific Iron Project

Sample #	Date	Sampler	Property	Location	Width (m)	Depth (m)	Inclination (Degrees)	Flow Rate (m.p.s)	pH of water	Sediment Colour	Sediment Texture	Organics %	Bedrock	Float	UTM Zone	Easting	Northing	Elevation (m)	Details/Observations/Remarks
E5123557	03-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 6 & 7	9	0.3	2	0.3	n/a	brown	clay-silt-sand	40	n/a	n/a	10N	417190	5397671	267	Flows S; swampy area very poor/absent moss; mainly stream sediment sampled
E5123558	03-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 6 & 7	2.5	0.1	12	1	n/a	brown	silt-sand	60	intrusive	100% intrusive	10N	417950	5395080	281	Flows S; c.g. felsic intrusive o/c with 5% FeOx
E5123559	03-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 6 & 7	1.5	0.3	10	1	n/a	grey-brown	sand	30	intrusive	90% intrusive, 10% volcanic	10N	415831	5395756	283	Flows E; c.g. felsic intrusive o/c
E5124010	05-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 4 - site 6	2	0.05	08 N	0.6	n/a	brown	sandy silt	30	volc	5% granitic, 95% volc	10N	416136	5389712	265	orange rusty fractures w/ approx 5% dissem py - fine to coarse
E5124011	05-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 4 - site 32	5	n/a	15W	n/a	n/a	grey brown	silt sand	40	n/a	granitic, volc 50/50	10N	414631	5387967	431	float varies from granitic to gneissic; fractured volc +/- py, rusty fractures
E5124012	05-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 4 - site 28	1.5	0.1	08 W	0.5	n/a	brown	fine silt	65	n/a	90% granitic, 10% volc	10N	413863	5388038	215	poor sample; large angular boulders granitic rock w/angular inclusions fine volc; matrix granitic (diorite)
E5124013	05-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 4 - site 27	2	0.15	08 SW	0.75	n/a	grey brown	sandy silt	40	n/a	80% granitic 20% volc	10N	413798	5388737	266	some granitic boulders w/fine volc inclusions
E5124014	05-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 4 - site 26	4	0.15	12 E	0.4	n/a	brown	sandy silt	30	hornblend diorite ?	70% granitic, 30% volc	10N	412451	5387162	297	dark crystaline rock (hornblend diorite?) w/about 5% qtz; tiny qtz veinlets; tr Py; mod magnetic; major frac 0 70
E5124015	06-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 6 & 7 no. 23	1.5	0.03	12 N	0.5	n/a	light brown	silty sand	30	granitic	90% granitic, 8% limestone, 2% volc	10N	414189	5394689	640	mod fresh felsic granitic o/c's; non magnetic; rare boulder rusty volcanic, pyritic, spotty magnetite
E5124016	06-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 6 & 7 no. 25	2	0.05	16 NE	0.25	n/a	brown	silty sand	50	volcanic	80% volcanic, 20% granitic	10N	414111	5395039	627	non magnetic volcanic
E5124017	07-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Center 1 & 2 - Site 60	8	0.25	25 W	2	n/a	brown	silt sand	60	volcanic	intrusive	10N	405212	5386782	320	granitic float weak to moderate magnetism; o/c mafic volcanic 20% chlorite; foliation 130-90
E5124018	07-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Center 1 & 2 - Site 57	1	0.15	30 N	1.5	n/a	brown	silt	95	intrusive	granitic	10N	403421	5387808	756	granitic o/c (qtz-hrnblnd-biotite; ratty biotite; moderate magnetism; main fracture plane 70 - 40
E5124019	07-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Center 1 & 2 - Site 48	3	0.2	14 W	1.5	n/a	brown	silt sand	60	n/a	90% intrusive, 10% volcanic	10N	404455	5389659	432	granitic float, most with volcanic xenoliths; poor moss mat sample.
E5124020	08-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Centre 1 & 2 Site 41	1	0.1	08 S	0.5	n/a	brown	sand silt	25	n/a	volcanic 80% limeston 15% intr 5%	10N	405039	5392096	203	occas large very rusty pyritic boulder of fine volcanic; good moss sample but below road
E5124021	08-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Centre 1 & 2 Site 28	4	0.2	17 E	0.75	n/a	brown	sand silt	30	n/a	intr 60%, volc 40%	10N	406172	5389398	197	majority of intrusive float weak to mod magnetic; volcanic float is mostly fine grained blue.
E5124022	09-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 4 Site 38	4	0.5	06 SE	0.5	n/a	brown	soil silt sand	70	volc	n/a	10N	416390	5386212	688	o/c fine blu volcanic w 'mm' scale quartz veinlets; fractures with slickenside; 312-82.
E5124023	09-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Centre 1 & 2 Site 33	2	0.2	17 SE	0.5	n/a	brown	50 50 silt sand	40	volc	95% volc' 5% intr	10N	407722	5392591	274	o/c fine grained green blue (mafic) volcanic; one piece float appears to be a spherulitic volcanic w/silica floodi tr fine pyrite.
E5124024	09-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Centre 1 & 2 Site 31	4	0.15	06 W	0.6	n/a	grey brown	sand silt	25	n/a	70% volc, 25% intru, 5% limestone	10N	407904	5392173	313	nothing significant to mention
E5124025	10-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 6 & 7 Spur 10 site 47	2.5	0.05	06 NE	0.4	n/a	brown	silt sand	85	volcanic	volcanic	10N	409711	5394008	354	fine, 'chertiy' tan weathered volcanic; blue grey on fresh surface; dominant fracture 223 - 68
E5124149	03-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 6 & 7	10	0.6	5	1	n/a	brown	silty sand	50	n/a	80% intr, volc 20%	10N	417367	5296836	253	swampy area; poorr sample; moss from large area of surfi gravels
E5124150	03-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 6 & 8	20	0.45	4 SE	0.75	n/a	brown	silt sand	25	n/a	45% volc, 50% Intr, 5% lst	10N	416312	5394806	257	occas rustt intr float; some volcs w/epidote on fract; one piece vert rusty angular volc float
E5124151	03-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 6 & 9	0.5	0.05	07 S	0.5	n/a	brown	silt +/- peb	60	n/a	70% intr, 20% volc, 10% congl	10N	416111	5397051	314	very small stream; little float exposed; occas boulder of congl
E5124152	03-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 6 & 10	4	0.15	08 S	0.75	n/a	grey brown	silty sand	30	n/a	20% intr, 80% volc	10N	413652	5397995	357	volc mainly fine to coarse clastic; occas rare qtz in hematitic red 'crystal lithic lap tuff
E5124153	04-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 6 & 7 (41)	25	0.6	03 S	0.75	n/a	brown	sandy silt	30	n/a	60% intr, 40% volc	10N	410535	5395358	205	granitic boulders (granodiorite?); volc basalt to fine-med-coarse clastic (tuffs); occas epidote, qtz.
E5124154	04-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 6 & 7 (43)	5	n/a	05 S	n/a	n/a	dark brown	sandy	50	limestone	95% limestone, 5% volc	10N	410596	5394728	238	very rare granitic boulders
E5124155	04-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 4 (16)	4	0.5	06 SE	1	n/a	brown	sandy silt	30	limestone	5% limestone 75% intr, 20% volc	10N	412685	5390414	249	very fast stream over limestone o/c; lots of granitic float.
E5124156	04-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 4 (18)	2	0.1	08 N	0.5	n/a	orange brown	silty sand	40	n/a	90% int, 8% limestone, 2% volc	10N	412281	5390616	345	very large boulders, possible very old road debris.
E5124157	04-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 4 (17)	10	0.4	08 E	0.75	n/a	brown	sandy silt	25	granitic	90% intr, 10% volc	10N	412249	5390644	346	fine to med granitic w/shear/fault; 220-80
E5124158	04-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 6 & 7 (4)	1.5	0.15	04 E	0.4	n/a	brown grey	sandy silt	60	n/a	granitic	10N	416848	5398262	301	appears to be redirected creek; occas 'rotten' granitic boulder (Coast Complex??)
E5124159	05-Nov-15	R. Bilquist	Bugaboo-Reko Iron	Lens 4 - site 7	1.5	0.1	12 W	0.5	n/a	dark brown	fine silt	80	volc	granitic (one piece)	10N	416707	5389681	319	old logging debris, good moss rare; o/c appears to be fine green volc w/qtz epidote stringers
E5124160	03-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 6 & 7	15	0.3	2	1.5	n/a	grey-brown	sand	30	n/a	70% volc, 20% intrusive, 10% lst	10N	412572	5398106	365	Flows E
E5124161	03-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 6 & 7	2.5	n/a	1	n/a	n/a	brown-grey	silt-sand-pebble	60	n/a	80% volcanic, 20% intrusive	10N	412868	5398332	360	Flows S; dry creek in logged area; sample includes stream sediments
E5124162	04-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 6 & 7 - Site 40	4	0.5	2	1.5	n/a	grey brown	sand silt	20	volcanics	80% volc, 10% intrusive, 10% seds	10N	410689	5395338	235	Flow SW; mafic volcanic highly chloritic with shearing @ 095/90
E5124163	04-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 6 & & - Site 42	2.5	0.15	4	0.3	n/a	Brown grey	sand silt	30	n/a	80% volc, 15% intrusive, 5% seds	10N	410628	5394805	245	Flows W; rare small rounded float intermediate volcanic with 50% quartz-sulphide alteration including 5% pyrite
E5124164	04-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 4 - Site 19	5	0.1	15	0.5	n/a	Brown grey	silt-sand-pebble	60	intrusive	60% intrusive, 40% volcanic	10N	412670	5389755	238	Flows E; c.g. felsic intrusive o/c with 5% magnetite
E5124165	04-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 4 - Site 20	2.5	n/a	15	n/a	n/a	Brown grey	silt sand	80	n/a	100% intrusive	10N	412706	5389645	247	Dry creek bed; east direction
E5124166	04-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 4 - Site 21	2	0.05	15	0.2	n/a	Brown grey	silt sand	40	n/a	100% intrusive	10N	412906	5389031	238	Flows NE
E5124167	04-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 4 - Site 22	10	0.05	10	0.5	n/a	Brown grey	silt sand	70	intrusive	95% intrusive, 4% volc, 1% marble	10N	413124	5388740	226	Flows N;young creek bed re-aligned by logging upstream est. 20 years ago; poor moss development
E5124168	04-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 4 - Site 15	3	0.15	10	1	n/a	brown	sand silt	40	mafic volcanic	80% intrusive, 20% volcanic	10N	413111	5390698	296	Flows S; mafic volcanics m.g. pervasive chlorite, 5% magnetite, 5% quartz-chlorite stringers
E5124169	05-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 4 - site 9	3	0.2	25N	1.5	n/a	brown	silt sand	40	mafic volcanic	100% volcanic	10N	415610	5389230	354	Mafic volcanics o/c contains 5% epidote, 5% magnetite, 5% quartz-epidote stringers @ 040/90
E5124170	05-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 4 - site 35	2	n/a	10W	n/a	n/a	grey	sand	20	n/a	80% volcanic, 20% intrusive	10N	416128	5387213	553	Mafic volcanic float contains variable epidote alteration
E5124171	05-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 4 - site 23	2.5	0.05	12E	1	n/a	grey brown	silt sand	40	intrusive	90% intrusive, 10% volcanic	10N	411888	5388462	623	c.g. felsic intrusive o/c contains 10% quartz stringers @ 015/90 & 140/90
E5124172	06-Nov-15	J. Houle	Bugaboo-Reko Iron	Centre 1&2 - Site 20	4	0.1	20 S	1	n/a	brown	silt sand	85	mafic volcanic	90% volcanic, 10% intrusive	10N	409417	5386044	71	poor GPS reception in canyon
E5124173	06-Nov-15	J. Houle	Bugaboo-Reko Iron	Centre 1&2 - Site 19	4	0.05	10 SW	0.3	n/a	grey brown	sand silt	40	meta sediment	60% intrusive, 20% volcanic, 20% sed	10N	409241	5386278	82	metasedimentary outcrop with strong banding/foliation @ 150/60
E5124174	06-Nov-15	J. Houle	Bugaboo-Reko Iron	Centre 1&2 - Site 18	4	0.05	8 W	1	n/a	grey brown	sand silt	40	mafic volcanic	70% volcanic, 30% intrusive	10N	408854	5386737	60	mafic volcanic outcrop with foliation @ 130/50 and 1% FeOx along fractures
E5124175	06-Nov-15	J. Houle	Bugaboo-Reko Iron	Centre 1&2 - Site 4	6	n/a	2 E	n/a	n/a	grey brown	sand silt	30	n/a	70% volcanic, 25% intrusive, 5% lst	10N	409987	5392088	202	dry creek bed
E5124176	06-Nov-15	J. Houle	Bugaboo-Reko Iron	Centre 1&2 - Site 3	3	0.05	12 SE	0.5	n/a	grey brown	sand silt	50	mafic volcanic	90% volcanic, 10% intrusive	10N	410103	5392250	206	
E5124177	06-Nov-15	J. Houle	Bugaboo-Reko Iron	Centre 1&2 - Site 2	2	n/a	2 E	n/a	n/a	brown	silt sand	75	n/a	90% volcanic, 10% intrusive	10N	410128	5392620	215	
E5124178	07-Nov-15	J. Houle	Bugaboo-Reko Iron	Center 1 & 2 - Site27	5	0.25	15W	2	n/a	brown	sand silt	25	n/a	50% intrusive, 50% volcanic	10N	404940	5385548	254	5% magnetite in volcanic float
E5124179	07-Nov-15	J. Houle	Bugaboo-Reko Iron	Centre 1&2 - Site 59	4	0.25	3E	1	n/a	brown	silt sand	60	n/a	75% intrusive, 25% volcanic	10N	404483	5388613	349	sample taken below confluence of 2 creeks; poor quality sample may contain soil material
E5124180	07-Nov-15	J. Houle	Bugaboo-Reko Iron	Centre 1&2 - Site 53	5	0.05	15S	1.5	n/a	grey	silt sand	40	limestone	60% intrusive, 30% limestone, 10% volc	10N	404732	5388827	378	sample taken from karst spring uphill from road; limestone bedding @ 270/35
E5124181	07-Nov-15	J. Houle	Bugaboo-Reko Iron	Centre 1&2 - Site 49	3	0.3	17W	1.5	n/a	brown	silt sand	90	intrusive	100% intrusive	10N	404465	5389571	533	
E5124182	08-Nov-15	J. Houle	Bugaboo-Reko Iron	Centre 1&2 - Site 47	8	0.1	12W	1	n/a	grey	sand silt	20	intrusive	60% volc, 25% intrus, 10% lst, 5% gneiss	10N	403640	5393384	266	m.g. foliated felsic intrusive
E5124183	08-Nov-15	J. Houle	Bugaboo-Reko Iron	Centre 1&2 - Site 24	3	0.2	10NE	1.5	n/a	grey brown	sand silt	30	n/a	40% marble, 30% intrusive, 30% volcanic	10N	406159	5389036	214	at confluence of 2 creeks
E5124184	09-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 4 Site 38	4	0.2	12S	1	n/a	brown	sand silt	35	metavolcanic	75% metavolcanic, 25% intrusive	10N	416116	5384501	622	Sample site above confluence of small creek flowing east; mafic metavolcanic trace Mt, 2% Qtz stringe @030/90
E5124185	09-Nov-15	J. Houle	Bugaboo-Reko Iron	Centre 1&2 Site 39	10	0.05	10S	1	n/a	brown	silt sand	50	limestone	75% limestone, 20% volcanic, 5% intrusive	10N	406539	5392873	401	
E5124186	09-Nov-15	J. Houle	Bugaboo-Reko Iron	Centre 1&2 Site 38	3	0.05	15SE	0.1	n/a	brown	sand silt	30	n/a	95% volcanic, 5% intrusive	10N	406130	5391962	190	
E5124187	10-Nov-15	J. Houle	Bugaboo-Reko Iron	Lens 6&7 Site 45	3	0.1	8E	1	n/a	brown	silt sand	90	metavolcanic	95% metavolcanic, 5% intrusive	10N	409673	5393517	415	mafic metavolcanic outcrop contains 5% magnetite, foliation @ 250/75
E5124427	03-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 6 & 7 - South Main	10	0.3	7	1	n/a	grey brown	sand-silt	60	n/a	50% volc, 50% intr	10N	418183	5397166	300	304 strike, above old washed out bridge
E5124428	03-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 6 & 7 - Lens Main	15	1	8	1.5	n/a	grey brown	sand-silt	30	Intrusive	Intrusive	10N	417924	5395048	273	South flowing, 215/55 foliation. Trace sulphide (py), possible one spec of observed bornite
E5124429	03-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 6 & 7 - Pacific Marine Road	20	1	10	1	n/a	grey brown	sand	20	Intrusive	50% volc, 35% intr, 15% seds	10N	415826	5395794	270	SE flowing, isolated mineralized float, mag skarn with 10% mag, 5% sulphide (4 % py, 1% cpy) in mineraliz section. Actinolite-epidote aleration. Lmst and garnitite boulders present in creek
E5124430	03-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 6 & 7 - Pacific Marine Road	5	0.3	11	0.5	n/a	brown	silt-sand-clay	50	na	65% volc, 30% intr,5% seds	10N	412574	5397920	375	north flowing, old logging above
E5124431	03-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 6 & 7 - Pacific Marine Road	20	0.4	14	1	n/a	grey-brown	sand silt	40	n/a	70% volc, 30% intr	10N	412672	5398300	361	south flowing, old logging above.
E5124432	04-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 6 & 7 (37)	15	0.3	20	1	n/a	Brown	silt sand	15	Volc	80% volc, 20% intru	10N	411783	5395686	320	flow west, logged up above on N side, o/c contains trace py in altered volcanics, blebs of qtz unmineraliz throughout (1-2 cm), chlorite alteration
E5124433	04-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 6 & 7 (39)	15	0.5	11	1	n/a	grey brown	sand silt	40	volc	80% volc, 15% intru, 5% seds	10N	411605	5395687	275	SW flow, in canyon above confluence, fine grained black volcs
E5124434	04-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 4 (14b)	15	0.2	2	0.1	n/a	dark brown	silt	70	n/a, volcanics 60 m aw	80% volc, 20% intru	10N	413493	5391408	311	South flow, swampy area, below old logging
E5124435	04-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 4 (11)	15	0.2	11	0.2	n/a	brown	sand pebble silt	20	volcs	90% volc, 10% intru	10N	413879	5390496	258	SW flow, fine grained dark grey volcanics, 1-2 % disseminated magnetite crystals
E5124436	05-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 4 - Site 8	25	0.5	10	0.5	n/a	grey brown	sand silt	25	mafic-int volc	90% intrusive, 10% volcanic	10N	416677	5389640	308	NW flow, above confluence, south creek, mafic-iunt volc; fine grained dark green blue, minor epi stringers, distinct orientations.
E5124437	05-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 4 - Site 5	15	0.2	5	0.3	n/a	grey brown	sand silt	30	n/a	90% volcanic, 10% intrusive	10N	416109	5389837	231	West flow, old road on north
E5124438	05-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 4 - Site 31	15	0.2	28	0.2	n/a	brown	silt-clay-sand	60	Foliated volcs ?	70% volc, 30% intr	10N	414612	5387991	419	SW flow, very steep, log jammed, moderate to poor quality moss, some may be soil, o/c; 086/21 foliation tra sulphide in foliation (py)
E5124439	05-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 4 - Site 29 & 30	15	0.5	18	0.2	n/a	grey	sand silt	10	Altered volcanics, meta	60% volc, 30% intru, 10% seds	10N	413873	5387810	192	SW Flow, below bedrock canyon, combined site 29 & 30 samples (taken below confluence), fine grained me volc ?, dark grey - black, slightly magnetic
E5124440	05-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 4 - 25	10	0.4	10	0.5	n/a	grey brown	sand silt	30	int- mafic intru	80% intru, 20% volc	10N	412579	5387622	243	Flows east, dark green with white/grey speckled intrusive o/c, 50 5 hrnbl, 20% qtz, 30% felds, trace sulphide (>> cpy)
E5124441	06-Nov-15	C. Broda	Bugaboo-Reko Iron	Center 1 & 2 - site 22	10	0.2	26	0.3	n/a	brown	sand-silt-pebble	35	meta volc	70% volc, 30% intru	10N	410072	5385404	91	S flow, black fine grained meta volc, below old logging
E5124442	06-Nov-15	C. Broda	Bugaboo-Reko Iron	Center 1 & 2 - Site 21	7	0.3	14	0.5	n/a	Brown	silt-sand	40	Intrusive	60% intru, 40% volc, Trace skarn	10N	409676	5385760	69	SW flow, skarn boulder 2.5ft x 1.5 ft x 2 ft, 2-3 % sulphide (py), trace cpy, 10 - 15% magnetite, actinolite alteration, o/c intrusive breccia. Old logging upstream
E5124443	06-Nov-15	C. Broda	Bugaboo-Reko Iron	Center 1 & 2 - Site 8	5	0	5	n/a	n/a	Brown	sand silt	60	n/a	60% intru, 35% volc, 5% marble	10N	409790	5390886	174	E flow, no water in creek, old logging above, marble float
E5124444	06-Nov-15	C. Broda	Bugaboo-Reko Iron	Center 1 & 2 - Site 7	5	0.3	6	0.3	n/a	brown	sand silt	75	n/a	85% volc, 15% intru	10N	410003	5391355	187	SE flow, old logging road above, taken 160m north of site 7 on map since the creek plotted on map does exist
E5124445	06-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 4 - Site 4	10	0.2	28	0.3	n/a	brown	silt sand	70	volc w/ intrusive dykes	volcanic	10N	415059	5390151	235	S flow, on waterfall, blue green pheric volcanics intruded by fine grained porphyritic silicious intrusi Phenocrysts were feldspar. Epi-carb-qtz stringers dominate strike 060/59. Shear at 030/42, iron oxide
E5124446	07-Nov-15	C. Broda	Bugaboo-Reko Iron	Center 1 & 2 - site 62	10	0.5	32	3	n/a	Brown	Sand silt	60	Intrusive	90% intrusive, 10% volcanic	10N	405184	5386674	310	West flow water fall/ torrent
E5124447	07-Nov-15	C. Broda	Bugaboo-Reko Iron	Center 1 & 2 - Site 52	15	1	8	4	n/a	brown grey	sand silt	20	n/a	95% intru, 5 % volc	10N	404170	5388894	384	North flow, upstream from bridge
E5124448	07-Nov-15	C. Broda	Bugaboo-Reko Iron	Center 1 & 2 - Site 54	7	0.5	20	1.5	n/a	brown	silt sand	40	Intrusive	Intrusive	10N	404746	5388821	374	W flow, intrusive with mafic zenoliths and volcanic fragments, lmst O/C on road to the north
E5124449	08-Nov-15	C. Broda	Bugaboo-Reko Iron	Center 1 & 2 - Site 43	3	0	16	n/a	n/a	brown grey	sand silt	40	n/a	90% volc, 10% intru	10N	404810	5392179	218	S strike, no flow, not even during heavy rain event yesterday
E5124450	08-Nov-15	C. Broda	Bugaboo-Reko Iron	Center 1 & 2 - Site 44	8	0.2	17	0.5	n/a	brown	sand silt	30	n/a	95% volc, 5% lmstn	10N	404568	5392259	233	S flow, mineralized silicious volcs or intru, finegrained 0.5% remobilized py stringers and trace disseminated p small subangular cobbe (8 incs)
E5124451	08-Nov-15	C. Broda	Bugaboo-Reko Iron	Center 1 & 2 - Site 30	15	0.3	22	0.3	n/a	brown grey	sand silt	40	Marble and intrusive	20% marble, 70% intr, 10% volc	10N	406228	5389734	166	Flow east, trace py in float in creek, Marble on north side of creek, intrusive on south, contact appears to run strike of creek, 120/verticle (dip is not visible but appears steep)
E5124452	08-Nov-15	C. Broda	Bugaboo-Reko Iron	Center 1 & 2 - Site 29	12	0.5	29	0.5	n/a	grey brown	sand silt	20	intrusive	90% intrusive, 10% volcanic	10N	406192	5389603	184	SE flow on water fall, high quality moss but limited moss patches, o/c is intrusive breccia with mafic zenoliths
E5124453	09-Nov-15	C. Broda	Bugaboo-Reko Iron	Centre 1 & 2 Site 37	5	0.2	10	0.3	n/a	brown	silt-sand	50	meta volc	Intrusive. Trace volc	10N	416210	5385890	689	Flows east, trace sulphide in intrusive float (py) occures as dissem py and stringers. Stream has multipl channels during high flow, sample taken from main stream, O/c silicificed meta volc, trace to 1% disseminated
E5124454	09-Nov-15	C. Broda	Bugaboo-Reko Iron	Centre 1 & 2 Site 40	20	0.3	10	0.5	n/a	grey	sand silt	20	n/a	90% volc, 9% seds, 1% intru	10N	405775	5393052	379	SE flow, sedimentary float inlcludes lmst and mudstone, intrusives include feldspar porph
E5124455	09-Nov-15	C. Broda	Bugaboo-Reko Iron	Centre 1 & 2 Site 36	15	0.2	36	0.3	n/a	brown	silt sand	40	volc	95% volc, 5% seds	10N	406910	5392125	229	South flow
E5124456	09-Nov-15	C. Broda	Bugaboo-Reko Iron	Centre 1 & 2 Site 38	10	1	7	0.5	n/a	grey	sand silt	20	mafic intrusives	75% volc, 25% intrus	10N	406163	5392020	184	South flow, mafic intrusive o/c, rock fall of slope in canyon, joint at 232/59, slightly magnetic (5 to 10 %
E5124457	10-Nov-15	C. Broda	Bugaboo-Reko Iron	Lens 6 & 7 site 44	5	0.2	30	0.5	n/a	brown	silt sand	40	volc with granitic intrus	volc	10N	409567	5394129	327	NE flow, trace dissem py in o/c, volcanic o/c with granitic intrusion
E5124510	03-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 6 & 7	6	0.15	3	0.5	n/a	brown	sand silt minor p	40	n/a	85% intrus, 10% volc, 5% sed	10N	416906	5396373	262	Flows SE, creek contains pebbles and cobbles; no boulders
E5124511	03-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 6 & 7	3	0.2	10	0.75	n/a	grey brown	silt sand	40	n/a	70% intrusive, 30% volcanic	10N	416287	5394727	257	Flows NE; odd rusty intrus. Angular float (no minerlzn); minor qtz vein material.
E5124512	03-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 6 & 7	2	0.25	2	0.75	n/a	brown	sand silt	30	n/a	65% intrus, 30% volc, 5% lmstn	10N	416237	5396917	301	Flows E
E5124513	03-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 6 & 7	5	0.3	14	2	n/a	brown	sand	20	siliceous granitoid	90% intrusive, 10% volcanic	10N	416077	5397027	311	Stringer quartz in o/c flooring creek. Patchy epidote, rare patchy hematization. No sulphide mineralzn.
E5124514	03-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 6 & 7	4	0.15	4	0.6	n/a	brown	silt sand	40	n/a	75% volc, 10% intrus, 5% lmstn	10N	413512	5398088	356	Flows S; significant amounts lithic crystal tuff pebbles to cobbles in ck (hematized)
E5124515	04-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 6 & 7 (38)	7	0.3	12	0.4	n/a	grey brown	silty sand	25	volcanic	75% volc, 20% intrus, 5% lmstn	10N	411655	5395601	285	shearing in o/c at 120/60. Feldspar altered. No visible sulphide mineralization.
E5124516	04-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 4 (14a)	2	0.1	16	0.4	n/a	brown	sandy silt	60	n/a	80% volc, 20% intrusive	10N	413368	5391401	324	Flows E; o/c densly fractured at 145/75-90 accompanied by epidote and qtz stringers locally. Site in loggi slash.
E5124517	04-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 4 (13)	8	0.6	1	0.25	n/a	grey brown	sandy silt	30	n/a	55% volc, 40% intrus, 5% lmstn	10N	413589	5391359	311	Flows S. Rare subangular hematitic/limonitic cobbles w/blebby pyrite (trace).
E5124518	04-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 4 (12)	8	0.9	16	0.5	n/a	grey brown	silty sand	15	intrusive	70% intrusive, 30% volcanic	10N	413718	5390452	238	Flows S. Felsic intrus. w/lots of xenoliths (volc), also patchy hematite/limonite. Intrus. has tr. dissem py, cpy?
E5124519	05-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 4 no. 10	3	0.2	4	0.4	n/a	brown grey	silt sand	80	n/a	60% intrusive, 40% volcanic	10N	414313	5389805	227	Flows NE; poor sample, added stream sediment. V. little float
E5124520	05-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 4 no. 34	8	0.2	18	0.4	n/a	grey	sand	10	mafic volcanic	65% volcanic, 35% intrusive	10N	416123	5387265	553	Flows SW; o/c patchy magnetism. Rare angular pyrite bearing float (max 1%)
E5124521	05-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 4 no. 33	5	0.2	18	0.4	n/a	brown	silt sand	40	mafic volcanic	65% volcanic, 35% intrusive	10N	415649	5387507	559	Flows S; o/c has localized (fracture related) qtz-epidote, also contains approx 3% f.g. magnetite
E5124522	05-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 4 no. 24	6	0.05	30	0.3	n/a	brown	silt sand	70	intrusive	90% intrusive, 10% volcanic	10N	411932	5388306	637	Flows NE; in large boulder filled gully, water flowing out at base.
E5124523	06-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 6 & 7 no. 22	2	0.06	30	0.5	n/a	brown	silt sand	30	felsic intrusive	60% intrus, 35% volc, 5% lmstn	10N	414288	5394586	626	Flows NE; o/c on adjacent roadcut chloritized mafic volc; contact nearby. No observable sulphides
E5124524	06-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 6 & 7 no. 24	2	0.1	22	0.2	n/a	dark brown	sand silt	70	felsic intrusive	90% felsic intrus, 10% mafic volc	10N	414207	5394869	633	Flows NE; poor sample, high organic content. Trace pyrite in rare FeOx weathered float .
E5124525	07-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Centre 1 & 2 Site 26	3	0.3	38	1.5	n/a	brown	soil silt sand	75	n/a	90% intrusive, 10% volcanic	10N	404809	5385209	206	Flows W. Stream in spate. Poor sample: soil
E5124526	07-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Centre 1 & 2 Site 59	4	0.3	28	2	n/a	brown	sand silt	40	intrusive	60% intrusive, 40% volcanic	10N	405106	5387108	368	Flows W. Stream in spate. GPS +/- 8m
E5124527	07-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Centre 1 & 2 Site 56	3	0.25	30	1.5	n/a	brown	soil silt	90	intrusive	intrusive	10N	403304	5388051	738	Flows E. Stream in spate. Very poor sample. O/C moderately magnetic, has mafic xenoliths.
E5124528	07-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Centre 1 & 2 Site 50	5	0.1	40	1.5	n/a	grey brown	sand silt	30	n/a	intrusive	10N	404545	5389129	413	Flows SW. Stream in spate.
E5124529	08-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Centre 1 & 2 Site 46	3	0.15	44	1	n/a	brown	silt	80	intrusive	intrusive	10N	403652	5372719	304	Flows W. Water fall over mossy bedrock. Very little sediment, minimal float. Poor sample.
E5124530	08-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Centre 1 & 2 Site 45	2	0.15	24	0.5	n/a	grey brown	sand silt	30	n/a	55% intrus, 30% volc, 10% sedim, 5% lms	10N	404150	5392157	232	Flows SSE; trace pyrite in some float, qtz alteration common in float
E5124531	08-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Centre 1 & 2 Site 25	2	0.08	40	0.2	n/a	brown	sand silt	20	intrusive	intrusive	10N	406212	5389271	186	Flows E; 290/28 fracture foliation. Intermed.intrus intensely chloritized w/ random qtz veinlets and less ma patches
E5124532	09-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 4 Site 37	3	0.2	40	0.3	n/a	brown	sand silt	30	intermediate intrusive	90% intrusive, 10% volcanic	10N	414331	5386152	548	NW flow; chute and pool stream. O/C pervasively chloritized, intruded by more felsic phase, brecciation, min qtz stringers
E5124533	09-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Centre 1 & 2 Site 34	1.5	0.2	32	0.6	n/a	grey brown	silt sand	25	intermediate to mafic v	90% volcanic, 10% intrusive	10N	407386	5392631	332	Flows S. Abundant FeOx weathered float (volc): tr pyrite;cpy? Qtz stringers and brecciation in o/c and float
E5124533	09-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Centre 1 & 2 Site 36	20	0.35	6	0.5	n/a	grey brown	sand silt	25	n/a	85% mafic volc, 10% intrusive, 5% limestn	10N	407735	5392586	284	Flows SW
E5124535	09-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Centre 1 & 2 Site 35	8	0.2	22	0.75	n/a	brown	silt sand	25	intermediate intrusive	90% intrusive, 10% volcanic	10N	407626	5391815	323	Flows N; intrusive float weakly to moderately magnetic
E5124536	10-Nov-05	M. Brannstrom	Bugaboo-Reko Iron	Lens 6 & 7 site 46	7	0.3	16	0.6	n/a	brown	silt sand	30	mafic volcanic	50% dolostn, 40% intrus, 10% volc	10N	409539	5394252	325	Flows SE; o/c may be subcrop.
E5124759	03-Nov-15	M. Brannstrom	Bugaboo-Reko Iron	Lens 6 & 7	2	0.2	5	10	n/a	brown	sand silt	30	n/a	50% intr, 40% conglom, 10% volc	10N	418790	5398378	320	Flows NW

Stream Moss Mat Geochemistry Highlights for Pacific Iron Project

Sample #	Easting	Northing	Elevation	Au (ppm)	Ag (ppm)	As (ppm)	Cd (ppm)	Ni (ppm)	Pb (ppm)	Te (ppm)	W (ppm)	Zn (ppm)
E5123557	417190	5397671	267	0.01	0.17	<0.2	0.18	8.8	7.3	0.87	1.5	53
E5123558	417950	5395080	281	<0.001	0.18	2.6	0.42	7	8.8	0.39	0.9	57.7
E5123559	415831	5395756	283	<0.001	0.2	3.5	0.21	18.2	7.4	0.36	1.2	101
E5124010	416136	5389712	265	<0.001	0.19	2.4	0.09	35.2	4.9	0.25	1.1	83.8
E5124011	414631	5387967	431	0.027	0.18	1.8	0.22	41.2	8.4	0.22	0.9	108
E5124012	413863	5388038	215	<0.001	0.15	0.8	0.21	23.1	6.4	0.17	0.7	54.7
E5124013	413798	5388737	266	0.099	0.17	2.5	0.3	36.5	9	0.11	0.5	71.7
E5124014	412451	5387162	297	0.106	0.13	1.6	0.14	18.5	7.7	0.14	0.6	64.6
E5124015	414189	5394689	640	<0.001	0.18	17.9	0.41	13.9	5.1	0.24	1.3	136
E5124016	414111	5395039	627	<0.001	0.15	3.3	0.92	30.4	8.6	0.13	0.6	98.8
E5124017	405212	5386782	320	<0.001	0.17	0.5	0.12	31.5	6.3	0.11	0.7	103
E5124018	403421	5387808	756	<0.001	0.15	<0.2	0.11	14.2	10.2	0.11	0.4	35.7
E5124019	404455	5389659	432	<0.001	0.14	2.5	0.23	159	5.1	0.09	0.8	74.9
E5124020	405039	5392096	203	0.003	0.22	8.9	1.01	25.1	9.8	0.17	1.3	135
E5124021	406172	5389398	197	<0.001	0.17	1.5	0.13	116	4.8	0.1	0.7	67.9
E5124022	416390	5386212	688	0.004	0.13	1.2	0.25	22.7	17.4	0.06	0.4	73.9
E5124023	407722	5392591	274	0.002	0.25	4.5	0.38	39.9	7.4	0.07	0.7	68.6
E5124024	407904	5392173	313	<0.001	0.19	2.6	0.26	40.5	5.4	0.08	1.1	90.5
E5124025	409711	5394008	354	0.002	0.22	14.1	0.7	25.6	9.5	0.07	0.4	100
E5124149	417367	5296836	253	0.006	0.15	2.7	0.36	13.7	7	0.04	0.7	80.1
E5124150	416312	5394806	257	<0.001	0.18	13.3	0.33	27.7	8.6	0.1	1.5	92
E5124151	416111	5397051	314	0.028	0.47	<0.2	0.18	11.2	5.7	0.04	0.4	44.4
E5124152	413652	5397995	357	0.006	0.27	5.8	0.13	8.8	7.3	0.06	1	62.3
E5124153	410535	5395358	205	0.002	0.29	29.1	1.68	101	12.1	0.09	0.8	211
E5124154	410596	5394728	238	0.002	0.26	13.4	0.22	34.4	9	0.08	2.1	79
E5124155	412685	5390414	249	<0.001	0.19	2.1	0.17	20.7	6.2	0.05	0.9	80.5
E5124156	412281	5390616	345	<0.001	0.15	2.6	0.18	24.4	6.9	0.07	1	102
E5124157	412249	5390644	346	0.101	0.14	3.8	0.14	20.3	6.2	0.06	0.7	71.8
E5124158	416848	5398262	301	0.002	0.12	1.5	0.08	11.7	6.8	0.03	0.8	84.2
E5124159	416707	5389681	319	<0.001	0.11	<0.2	0.32	21.9	6.9	0.03	0.4	52.5
E5124160	412572	5398106	365	0.017	0.2	11.8	0.34	30.3	10.3	0.06	1.2	107
E5124161	412868	5398332	360	<0.001	0.18	6.6	0.13	16.5	12	0.08	1.2	127
E5124162	410689	5395338	235	0.001	0.32	10.2	0.24	132	6.2	2.79	1.6	89.2
E5124163	410628	5394805	245	0.003	0.2	9.6	0.21	84.3	11.6	1	1	98.3
E5124164	412670	5389755	238	<0.001	0.17	0.2	0.13	26.8	5.8	0.51	0.6	79.8
E5124165	412706	5389645	247	<0.001	0.17	2.2	0.23	16.1	12.2	0.27	1.1	101
E5124166	412906	5389031	238	0.005	0.13	1.9	0.2	23	6.3	0.24	0.8	73.2
E5124167	413124	5388740	226	0.005	0.21	1.7	0.34	40.9	9.3	0.2	2.5	99
E5124168	413111	5390698	296	0.003	0.21	1.1	0.14	38.6	7	0.16	0.8	81.2
E5124169	415610	5389230	354	0.002	0.17	0.9	0.17	45.8	6.5	0.09	0.5	81.5
E5124170	416128	5387213	553	0.008	0.2	<0.2	0.19	53.8	5.4	0.11	0.8	85
E5124171	411888	5388462	623	<0.001	0.11	<0.2	0.1	17.1	5.8	0.07	0.4	52.4
E5124172	409417	5386044	71	0.003	0.1	0.8	0.16	28.4	6.7	0.03	0.3	63.2
E5124173	409241	5386278	82	0.006	0.25	1.3	0.15	40.3	5.9	0.09	0.7	115
E5124174	408854	5386737	60	<0.001	0.18	0.5	0.13	29.7	5.6	0.07	0.6	95.7
E5124175	409987	5392088	202	0.001	0.16	18.9	0.4	47.5	8.4	0.25	1.1	98.3
E5124176	410103	5392250	206	<0.001	0.3	3.9	0.6	47.9	6.9	0.08	0.6	84.1
E5124177	410128	5392620	215	0.001	0.27	1.3	0.66	39.1	8	0.05	0.9	95.5
E5124178	404940	5385548	254	0.002	0.17	1.5	0.14	97.5	5.2	0.12	11.1	84.7
E5124179	404483	5388613	349	<0.001	0.14	<0.2	0.12	58.4	5.2	0.06	1	75.9
E5124180	404732	5388827	378	0.003	0.14	4.2	0.25	61.1	5.5	0.06	1.7	89
E5124181	404465	5389571	533	0.003	0.12	<0.2	0.15	109	6.5	0.04	0.6	51.3
E5124182	403640	5393384	266	0.002	0.22	8	0.25	62.1	8	0.59	1.5	121
E5124183	406159	5389036	214	0.006	0.18	0.5	0.2	115	4.5	0.15	1.7	101
E5124184	416116	5384501	622	<0.001	0.12	<0.2	0.11	23.1	8.2	0.08	0.5	65.6
E5124185	406539	5392873	401	0.015	1.19	27.7	2.06	65.4	73.5	0.17	1.8	307
E5124186	406130	5391962	190	0.002	0.42	10.7	0.57	71.2	11.7	0.19	1.8	93.2
E5124187	409673	5393517	415	0.002	0.18	5.5	0.28	47.4	7	0.05	0.3	83.7
E5124427	418183	5397166	300	<0.001	0.15	2.4	0.1	14.2	7.7	0.06	1	59.7
E5124428	417924	5395048	273	<0.001	0.13	1	0.11	10.6	6.1	0.06	1	63.4
E5124429	415826	5395794	270	<0.001	0.18	13.3	0.3	27.5	9.6	0.08	1.5	104
E5124430	412574	5397920	375	<0.001	0.23	19.2	0.26	70.5	7.9	0.08	0.6	108
E5124431	412672	5398300	361	0.008	0.31	6.7	0.26	22.2	10	2.98	3.2	109
E5124432	411783	5395686	320	0.002	0.2	9	0.21	112	5.1	1.04	1	94.1
E5124433	411605	5395687	275	<0.001	0.16	8.8	0.11	135	4.8	0.53	0.7	87
E5124434	413493	5391408	311	<0.001	0.2	12.2	0.38	44.5	7.5	0.34	0.7	103
E5124435	413879	5390496	258	0.855	0.15	<0.2	0.13	35.7	5.3	0.23	0.5	67.6
E5124436	416677	5389640	308	<0.001	0.18	<0.2	0.11	49.2	4.5	0.22	0.6	74
E5124437	416109	5389837	231	0.007	0.17	<0.2	0.11	49.1	4.5	0.15	0.6	67.1
E5124438	414612	5387991	419	0.002	0.18	<0.2	0.27	49.1	12.2	0.12	0.5	156
E5124439	413873	5387810	192	0.005	0.17	<0.2	0.15	40.3	4.4	0.12	1.2	80.6
E5124440	412579	5387622	243	0.004	0.15	<0.2	0.11	29.7	18.1	0.08	0.4	76.1
E5124441	410072	5385404	91	0.006	0.15	<0.2	0.12	59.5	4.7	0.09	0.4	97.3
E5124442	409676	5385760	69	0.011	0.18	0.6	0.17	40.6	6	0.08	0.5	102
E5124443	409790	5390886	174	0.021	0.32	5.6	0.34	54.8	7.4	0.09	1.7	128
E5124444	410003	5391355	187	0.014	0.26	20.8	0.67	58.8	7.9	0.09	0.5	93.5
E5124445	415059	5390151	235	<0.001	0.16	<0.2	0.12	42.8	6.6	0.08	0.4	62.2
E5124446	405184	5386674	310	<0.001	0.17	<0.2	0.12	111	4.9	0.04	0.5	72.5
E5124447	404170	5388894	384	0.049	0.16	<0.2	0.08	38.3	4.6	0.08	0.8	80.3
E5124448	404746	5388821	374	0.006	0.13	3.4	0.3	103	4.3	0.07	1.2	108
E5124449	404810	5392179	218	0.007	0.54	25.8	2.93	29.3	29.6	0.2	1.4	349
E5124450	404568	5392259	233	0.004	0.28	12	0.69	24	8.5	0.18	1.3	121
E5124451	406228	5389734	166	<0.001	0.12	2	0.14	104	3.6	0.23	6.5	73.9
E5124452	406192	5389603	184	<0.001	0.11	<0.2	0.11	183	3.9	0.12	1.8	71.8
E5124453	416210	5385890	689	0.001	0.11	<0.2	0.12	19.2	7.7	0.1	0.8	102
E5124454	405775	5393052	379	<0.001	0.17	10.8	0.31	82.5	8.7	0.16	0.9	113
E5124455	406910	5392125	229	0.004	0.2	5.2	0.55	68.1	9.1	0.19	0.7	119
E5124456	406163	5392020	184	0.003	0.26	9.9	0.44	93.7	10.6	0.18	0.9	127
E5124457	409567	5394129	327	0.008	0.2	15.3	0.94	29.8	11.4	0.09	0.7	96.4
E5124510	416906	5396373	262	<0.001	0.15	6.7	0.11	16.8	8	0.14	1.2	67.7
E5124511	416287	5394727	257	<0.001	0.16	5.7	0.34	36.9	7.1	0.23	0.9	144
E5124512	416237	5396917	301	<0.001	0.12	1.1	0.09	16.8	6.2	0.09	1.4	67.7
E5124513	416077	5397027	311	<0.001	0.12	2.9	0.11	16.1	5.9	0.06	1.4	66.6
E5124514	413512	5398088	356	<0.001	0.16	5.9	0.12	13.9	8.3	0.06	1.5	85.5
E5124515	411655	5395601	285	0.031	0.14	7.1	0.13	183	4.9	0.06	15.4	89
E5124516	413368	5391401	324	0.001	0.13	0.9	0.37	37.4	4.7	0.05	0.7	113
E5124517	413589	5391359	311	<0.001	0.2	15.3	0.52	62.2	6.8	0.05	0.7	113
E5124518	413718	5390452	238	<0.001	0.26	9.9	0.35	63.7	5.4	2.94	1.5	103
E5124519	414313	5389805	227	<0.001	0.2	<0.2	0.28	23.9	5.2	0.9	0.5	58.9
E5124520	416123	5387265	553	0.004	0.23	<0.2	0.13	48.4	3.9	0.58	0.8	60.9
E5124521	415649	5387507	559	0.002	0.17	<0.2	0.18	39	10.5	0.35	0.6	148
E5124522	411932	5388306	637	<0.001	0.11	<0.2	0.12	22.6	5.8	0.24	0.4	75.6
E5124523	414288	5394586	626	0.006	0.22	64.9	1.78	16.5	15.3	0.37	1.3	296
E5124524	414207	5394869	633	<0.001	0.2	4.8	1.35	45.6	7.4	0.19	0.4	131
E5124525	404809	5385209	206	0.001	0.11	<0.2	0.14	37.2	11.6	0.12	0.3	44.5
E5124526	405106	5387108	368	0.001	0.15	<0.2	0.13	44.8	4.6	0.15	0.7	70.8
E5124527	403304	5388051	738	0.005	0.11	<0.2	0.19	20.6	8.7	0.07	0.3	75.3
E5124528	404545	5389129	413	0.001	0.22	1	0.45	61.5	4.4	0.08	1.9	126
E5124529	403652	5372719	304	0.01	0.15	<0.2	0.53	11.1	8.3	0.09	0.5	51.5
E5124530	404150	5392157	232	0.001	0.16	2	0.12	14.5	6	0.12	1.1	56.3
E5124531	406212	5389271	186	<0.001	0.15	1.5	0.1	140	3.5	0.12	1	70.7
E5124532	414331	5386152	548	<0.001	0.11	<0.2	0.13	25.7	5.8	0.04	0.5	82.6
E5124533	407386	5392631	332	0.003	0.16	6.9	0.42	95.7	9.2	0.08	0.5	104
E5124533	407735	5392586	284	0.002	0.17	20.7	0.63	86.5	10	0.07	0.9	135
E5124535	407626	5391815	323	<0.001	0.1	1.2	0.14	48.2	3.5	0.04	0.4	104
E5124536	409539	5394252	325	0.021	0.21	18.6	0.71	42.1	10.6	0.1	1	88.5
E5124759	418790	5398378	320	0.115	0.16	0.7	0.1	26.7	5.5	0.08	1	61.8

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(604) 336-7666

ATTENTION TO: VINCENT LI

PROJECT: Pacific Copper East

AGAT WORK ORDER: 15D042828

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Dec 07, 2015

PAGES (INCLUDING COVER): 10

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.

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Certificate of Analysis

AGAT WORK ORDER: 15D042828

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 16, 2015 | DATE RECEIVED: Nov 16, 2015 | DATE REPORTED: Dec 07, 2015 | SAMPLE TYPE: Rock

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.2	0.01
E5123684 (7198390)	16.5	1.97	2.3	6	<0.05	0.03	0.75	9.08	4.87	22.9	208	0.05	>10000	5.94
E5124263 (7198391)	2.35	0.35	2.7	17	<0.05	0.25	1.72	0.12	4.30	739	14.6	0.08	1750	46.2
E5124264 (7198392)	0.55	1.02	5.5	10	0.10	0.15	8.26	0.18	6.89	197	38.9	0.05	3390	32.8
E5124265 (7198393)	0.29	0.28	3.5	10	<0.05	0.07	0.82	0.18	4.74	181	41.9	0.06	698	>50
E5124785 (7198394)	0.15	2.16	9.6	5	0.20	0.05	11.0	0.18	5.38	88.4	82.8	0.04	384	30.4
E5124786 (7198395)	0.61	2.22	3.8	36	0.25	0.10	7.64	0.28	11.4	147	72.9	0.14	2930	35.4

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.2	10
E5123684 (7198390)	6.75	0.52	0.3	0.726	<0.01	1.8	5.0	1.52	436	4.13	0.12	3.2	35.7	168
E5124263 (7198391)	7.43	0.81	2.2	0.145	0.01	2.0	0.5	0.31	1420	1.79	0.02	11.0	178	168
E5124264 (7198392)	5.27	1.47	1.2	0.495	<0.01	1.3	0.9	2.10	2700	0.91	0.02	3.0	45.0	<10
E5124265 (7198393)	13.2	0.70	0.1	0.103	<0.01	3.8	0.9	0.48	2380	1.06	<0.01	1.2	38.7	431
E5124785 (7198394)	9.55	0.47	0.8	0.317	<0.01	1.1	1.1	1.81	2330	1.39	0.02	2.3	83.9	90
E5124786 (7198395)	12.8	0.44	1.2	0.302	0.01	2.6	0.8	0.45	5220	1.91	0.02	2.9	288	74

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
E5123684 (7198390)	1.7	0.3	<0.002	1.97	0.42	12.8	10.1	0.4	11.2	0.23	0.63	0.4	0.27	0.03
E5124263 (7198391)	1.4	0.7	0.109	>10	0.37	2.2	15.5	2.4	6.5	1.24	2.13	4.1	0.01	0.19
E5124264 (7198392)	1.3	0.4	0.031	4.81	0.27	6.7	5.5	10.7	14.9	0.32	0.79	3.0	0.05	0.11
E5124265 (7198393)	0.9	0.5	0.028	2.87	0.15	1.0	1.4	1.4	6.7	0.12	0.26	1.6	0.01	0.02
E5124785 (7198394)	1.0	0.4	0.009	2.03	0.24	7.3	2.2	2.1	37.8	0.16	0.25	0.6	0.12	0.04
E5124786 (7198395)	1.4	0.9	0.013	2.15	0.21	2.1	2.5	1.8	256	0.35	0.32	3.8	0.07	0.04

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Certificate of Analysis

AGAT WORK ORDER: 15D042828

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 16, 2015 | DATE RECEIVED: Nov 16, 2015 | DATE REPORTED: Dec 07, 2015 | SAMPLE TYPE: Rock

Analyte:	U	V	W	Y	Zn	Zr	Cu-OL
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5	0.01
E5123684 (7198390)	0.038	117	0.8	6.5	83.4	15.6	2.72
E5124263 (7198391)	2.15	72.0	0.9	3.6	261	9.9	
E5124264 (7198392)	7.37	57.4	0.7	54.4	281	30.8	
E5124265 (7198393)	0.495	158	0.3	1.7	377	2.0	
E5124785 (7198394)	1.87	72.7	0.6	19.1	255	24.4	
E5124786 (7198395)	2.78	110	0.7	9.5	513	30.0	

Comments: RDL - Reported Detection Limit

7198390-7198395 As, Sb values may be low due to digestion losses.

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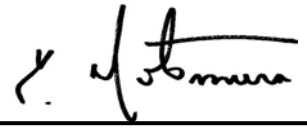

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AGAT WORK ORDER: 15D042828

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-249) Davis Tube (ADTRS) - Magnetic Separation

DATE SAMPLED: Nov 16, 2015 | DATE RECEIVED: Nov 16, 2015 | DATE REPORTED: Dec 07, 2015 | SAMPLE TYPE: Rock

Analyte:	Magnetics
Unit:	%
Sample ID (AGAT ID) RDL:	0.01
E5124263 (7198391)	66.1
E5124264 (7198392)	36.2
E5124265 (7198393)	83.6
E5124785 (7198394)	36.3
E5124786 (7198395)	44.6

Comments: RDL - Reported Detection Limit

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 15D042828

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Nov 16, 2015 | DATE RECEIVED: Nov 16, 2015 | DATE REPORTED: Dec 07, 2015 | SAMPLE TYPE: Rock

Analyte:	Sample Login Weight	Au
Unit:	kg	ppm
Sample ID (AGAT ID) RDL:	0.01	0.001
E5123684 (7198390)	0.64	0.129
E5124263 (7198391)	1.76	0.020
E5124264 (7198392)	1.42	0.021
E5124265 (7198393)	1.86	0.007
E5124785 (7198394)	1.40	0.005
E5124786 (7198395)	1.32	0.009

Comments: RDL - Reported Detection Limit

Certified By:

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Quality Assurance - Replicate

AGAT WORK ORDER: 15D042828

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

	REPLICATE #1															
Parameter	Sample ID	Original	Replicate	RPD												
Ag	7198390	16.5	17.0	3.0%												
Al	7198390	1.97	1.94	1.5%												
As	7198390	2.3	1.5													
Ba	7198390	6	5	18.2%												
Be	7198390	< 0.05	< 0.05	0.0%												
Bi	7198390	0.029	0.035	18.8%												
Ca	7198390	0.75	0.74	1.3%												
Cd	7198390	9.08	8.70	4.3%												
Ce	7198390	4.87	4.59	5.9%												
Co	7198390	22.9	22.9	0.0%												
Cr	7198390	208	210	1.0%												
Cs	7198390	0.048	0.041	15.7%												
Cu	7198390	26400	26000	1.5%												
Fe	7198390	5.94	5.82	2.0%												
Ga	7198390	6.75	6.42	5.0%												
Ge	7198390	0.521	0.528	1.3%												
Hf	7198390	0.26	0.23	12.2%												
In	7198390	0.726	0.675	7.3%												
K	7198390	< 0.01	< 0.01	0.0%												
La	7198390	1.81	1.74	3.9%												
Li	7198390	5.0	4.9	2.0%												
Mg	7198390	1.52	1.50	1.3%												
Mn	7198390	436	434	0.5%												
Mo	7198390	4.13	3.35	20.9%												
Na	7198390	0.116	0.114	1.7%												
Nb	7198390	3.16	2.87	9.6%												
Ni	7198390	35.7	36.5	2.2%												
P	7198390	168	174	3.5%												
Pb	7198390	1.7	1.6	6.1%												
Rb	7198390	0.25	0.23	8.3%												
Re	7198390	< 0.002	< 0.002	0.0%												

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AGAT WORK ORDER: 15D042828

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

S	7198390	1.97	1.90	3.6%												
Sb	7198390	0.416	0.402	3.4%												
Sc	7198390	12.8	12.6	1.6%												
Se	7198390	10.1	9.8	3.0%												
Sn	7198390	0.4	0.4	0.0%												
Sr	7198390	11.2	10.4	7.4%												
Ta	7198390	0.226	0.207	8.8%												
Te	7198390	0.63	0.49													
Th	7198390	0.4	0.5	22.2%												
Ti	7198390	0.265	0.260	1.9%												
Tl	7198390	0.033	0.025	27.6%												
U	7198390	0.0377	0.0374	0.8%												
V	7198390	117	117	0.0%												
W	7198390	0.76	0.68	11.1%												
Y	7198390	6.50	6.23	4.2%												
Zn	7198390	83.4	81.1	2.8%												
Zr	7198390	15.6	9.7													

(201-249) Davis Tube (ADTRS) - Magnetic Separation

	REPLICATE #1															
Parameter	Sample ID	Original	Replicate	RPD												
Magnetics	7198392	36.2	36.4	0.6%												

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

	REPLICATE #1				REPLICATE #2											
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Au	7198390	0.129	0.134	3.8%	7198395	0.009	0.009	0.0%								

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Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 15D042828

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

	CRM #1 (ref.GTS-2a)				CRM #2 (ref.GS6D)											
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	6.96	6.46	93%	90% - 110%												
Ba	186	169	91%	90% - 110%												
Ca	4.01	3.85	96%	90% - 110%												
Ce	24	22	93%	90% - 110%												
Co	22.1	20.8	94%	90% - 110%												
Cu	88.6	88.3	100%	90% - 110%												
Fe	7.56	7	93%	90% - 110%												
K	2.021	1.903	94%	90% - 110%												
Mg	2.412	2.22	92%	90% - 110%												
Mn	1510	1509	100%	90% - 110%												
Na	0.617	0.576	93%	90% - 110%												
Ni	77.1	72.8	94%	90% - 110%												
P	892	874	98%	90% - 110%												
S	0.348	0.347	100%	90% - 110%												
Sr	92.8	96.8	104%	90% - 110%												
Zn	208	208	100%	90% - 110%												

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

	CRM #1 (ref.GSP7K)				CRM #2 (ref.GS6D)											
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	0.694	0.723	104%	90% - 110%	6.09	5.73	94%	90% - 110%								

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Method Summary

CLIENT NAME: PIONEER EXPLORATION CORPORATION

AGAT WORK ORDER: 15D042828

PROJECT: Pacific Copper East

ATTENTION TO: VINCENT LI

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Ag	MIN-200-12020		ICP-MS
Al	MIN-200-12020		ICP/OES
As	MIN-200-12020		ICP-MS
Ba	MIN-200-12020		ICP-MS
Be	MIN-200-12020		ICP-MS
Bi	MIN-200-12020		ICP-MS
Ca	MIN-200-12020		ICP/OES
Cd	MIN-200-12020		ICP-MS
Ce	MIN-200-12020		ICP-MS
Co	MIN-200-12020		ICP-MS
Cr	MIN-200-12020		ICP/OES
Cs	MIN-200-12020		ICP-MS
Cu	MIN-200-12020		ICP-MS
Fe	MIN-200-12020		ICP/OES
Ga	MIN-200-12020		ICP-MS
Ge	MIN-200-12020		ICP-MS
Hf	MIN-200-12020		ICP-MS
In	MIN-200-12020		ICP-MS
K	MIN-200-12020		ICP/OES
La	MIN-200-12020		ICP-MS
Li	MIN-200-12020		ICP-MS
Mg	MIN-200-12020		ICP/OES
Mn	MIN-200-12020		ICP/OES
Mo	MIN-200-12020		ICP-MS
Na	MIN-200-12020		ICP/OES
Nb	MIN-200-12020		ICP-MS
Ni	MIN-200-12020		ICP-MS
P	MIN-200-12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
Re	MIN-200-12020		ICP-MS
S	MIN-200-12020		ICP/OES
Sb	MIN-200-12020		ICP-MS
Sc	MIN-200-12020		ICP-MS
Se	MIN-200-12020		ICP-MS
Sn	MIN-200-12020		ICP-MS
Sr	MIN-200-12020		ICP-MS
Ta	MIN-200-12020		ICP-MS
Te	MIN-200-12020		ICP-MS
Th	MIN-200-12020		ICP-MS
Ti	MIN-200-12020		ICP/OES
Tl	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
V	MIN-200-12020		ICP/OES
W	MIN-200-12020		ICP-MS
Y	MIN-200-12020		ICP-MS
Zn	MIN-200-12020		ICP-MS
Zr	MIN-200-12020		ICP-MS
Cu-OL	MIN-200-12035/12018		ICP/OES

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Method Summary

CLIENT NAME: PIONEER EXPLORATION CORPORATION

AGAT WORK ORDER: 15D042828

PROJECT: Pacific Copper East

ATTENTION TO: VINCENT LI

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Magnetics	MIN-200-12041		DAVIS TUBE
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES

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ATTENTION TO: VINCENT LI

PROJECT: Pacific Iron

AGAT WORK ORDER: 15D047901

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Dec 18, 2015

PAGES (INCLUDING COVER): 9

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.

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Certificate of Analysis

AGAT WORK ORDER: 15D047901

PROJECT: Pacific Iron

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 30, 2015 | DATE RECEIVED: Nov 30, 2015 | DATE REPORTED: Dec 18, 2015 | SAMPLE TYPE: Rock

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.2	0.01
E5123624 (7243023)	0.30	0.10	3.0	4	0.08	0.48	0.61	0.02	0.08	43.0	<0.5	0.08	95.1	68.4
E5123625 (7243024)	0.28	0.08	4.9	2	0.14	0.20	0.37	0.04	0.06	25.3	<0.5	0.11	180	71.3

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.2	10
E5123624 (7243023)	5.11	<0.05	<0.1	0.034	<0.01	<0.5	0.3	0.67	1300	0.52	0.01	0.9	3.4	<10
E5123625 (7243024)	4.81	<0.05	<0.1	0.030	0.01	<0.5	0.3	0.48	1050	0.33	0.01	0.9	0.8	<10

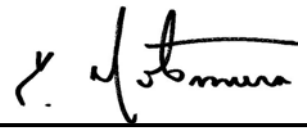
Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
E5123624 (7243023)	1.1	0.4	<0.002	0.17	0.57	0.3	<0.5	1.2	3.1	<0.05	0.80	<0.1	<0.01	<0.01
E5123625 (7243024)	1.0	0.5	<0.002	0.06	0.39	0.2	<0.5	1.4	2.8	<0.05	0.71	<0.1	<0.01	<0.01

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
E5123624 (7243023)	0.114	8.7	1.3	0.2	108	0.9
E5123625 (7243024)	0.085	6.7	1.5	0.2	65.2	0.6

Comments: RDL - Reported Detection Limit

7243023-7243024 As, Sb values may be low due to digestion losses.

Certified By:



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AGAT WORK ORDER: 15D047901

PROJECT: Pacific Iron

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

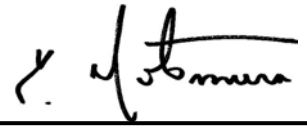
(201-249) Davis Tube (ADTRS) - Magnetic Separation

DATE SAMPLED: Nov 30, 2015 | DATE RECEIVED: Nov 30, 2015 | DATE REPORTED: Dec 18, 2015 | SAMPLE TYPE: Rock

Analyte:	Magnetics
Unit:	%
Sample ID (AGAT ID) RDL:	0.01
E5123624 (7243023)	90.1
E5123625 (7243024)	91.4

Comments: RDL - Reported Detection Limit

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 15D047901

PROJECT: Pacific Iron

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Nov 30, 2015 | DATE RECEIVED: Nov 30, 2015 | DATE REPORTED: Dec 18, 2015 | SAMPLE TYPE: Rock

Analyte:	Sample Login Weight	Au
Unit:	kg	ppm
Sample ID (AGAT ID) RDL:	0.01	0.001
E5123624 (7243023)	2.58	0.009
E5123625 (7243024)	2.78	0.017

Comments: RDL - Reported Detection Limit

Certified By:

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Quality Assurance - Replicate

AGAT WORK ORDER: 15D047901

PROJECT: Pacific Iron

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

	REPLICATE #1															
Parameter	Sample ID	Original	Replicate	RPD												
Ag	7243024	0.276	0.249	10.3%												
Al	7243024	0.08	0.08	0.0%												
As	7243024	4.9	3.5													
Ba	7243024	2	1													
Be	7243024	0.14	0.14	0.0%												
Bi	7243024	0.203	0.210	3.4%												
Ca	7243024	0.374	0.379	1.3%												
Cd	7243024	0.04	0.05	22.2%												
Ce	7243024	0.057	0.053	7.3%												
Co	7243024	25.3	25.0	1.2%												
Cr	7243024	< 0.5	< 0.5	0.0%												
Cs	7243024	0.11	0.11	0.0%												
Cu	7243024	180	181	0.6%												
Fe	7243024	62.0	62.5	0.8%												
Ga	7243024	4.81	4.67	3.0%												
Ge	7243024	< 0.05	0.06													
Hf	7243024	< 0.1	< 0.1	0.0%												
In	7243024	0.030	0.030	0.0%												
K	7243024	0.01	0.01	0.0%												
La	7243024	< 0.5	< 0.5	0.0%												
Li	7243024	0.3	0.3	0.0%												
Mg	7243024	0.478	0.473	1.1%												
Mn	7243024	1050	1040	1.0%												
Mo	7243024	0.33	0.31	6.3%												
Na	7243024	0.01	0.01	0.0%												
Nb	7243024	0.86	0.81	6.0%												
Ni	7243024	0.8	1.2													
P	7243024	< 10	< 10	0.0%												
Pb	7243024	1.0	1.1	9.5%												
Rb	7243024	0.54	0.56	3.6%												
Re	7243024	< 0.002	< 0.002	0.0%												

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Quality Assurance - Replicate

AGAT WORK ORDER: 15D047901

PROJECT: Pacific Iron

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

S	7243024	0.06	0.09													
Sb	7243024	0.39	0.39	0.0%												
Sc	7243024	0.2	0.2	0.0%												
Se	7243024	< 0.5	< 0.5	0.0%												
Sn	7243024	1.4	1.4	0.0%												
Sr	7243024	2.77	2.74	1.1%												
Ta	7243024	< 0.05	< 0.05	0.0%												
Te	7243024	0.71	0.61	15.2%												
Th	7243024	< 0.1	< 0.1	0.0%												
Ti	7243024	< 0.01	< 0.01	0.0%												
Tl	7243024	< 0.01	< 0.01	0.0%												
U	7243024	0.085	0.085	0.0%												
V	7243024	6.75	7.06	4.5%												
W	7243024	1.5	1.5	0.0%												
Y	7243024	0.2	0.2	0.0%												
Zn	7243024	65.2	71.5	9.2%												
Zr	7243024	0.58	0.66	12.9%												
(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)																
	REPLICATE #1															
Parameter	Sample ID	Original	Replicate	RPD												
Au	7243024	0.0169	0.0152	10.6%												

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Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 15D047901

PROJECT: Pacific Iron

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

	CRM #1 (ref.CDN-ME-1304)															
Parameter	Expect	Actual	Recovery	Limits												
Ag	34	35	103%	90% - 110%												
Cu	2680	2690	100%	90% - 110%												
Pb	2580	2528	98%	90% - 110%												
Zn	2200	2109	96%	90% - 110%												

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

	CRM #1 (ref.GSP7K)															
Parameter	Expect	Actual	Recovery	Limits												
Au	0.694	0.634	91%	90% - 110%												

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Method Summary

CLIENT NAME: PIONEER EXPLORATION CORPORATION

AGAT WORK ORDER: 15D047901

PROJECT: Pacific Iron

ATTENTION TO: VINCENT LI

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Ag	MIN-200-12020		ICP-MS
Al	MIN-200-12020		ICP/OES
As	MIN-200-12020		ICP-MS
Ba	MIN-200-12020		ICP-MS
Be	MIN-200-12020		ICP-MS
Bi	MIN-200-12020		ICP-MS
Ca	MIN-200-12020		ICP/OES
Cd	MIN-200-12020		ICP-MS
Ce	MIN-200-12020		ICP-MS
Co	MIN-200-12020		ICP-MS
Cr	MIN-200-12020		ICP/OES
Cs	MIN-200-12020		ICP-MS
Cu	MIN-200-12020		ICP-MS
Fe	MIN-200-12020		ICP/OES
Ga	MIN-200-12020		ICP-MS
Ge	MIN-200-12020		ICP-MS
Hf	MIN-200-12020		ICP-MS
In	MIN-200-12020		ICP-MS
K	MIN-200-12020		ICP/OES
La	MIN-200-12020		ICP-MS
Li	MIN-200-12020		ICP-MS
Mg	MIN-200-12020		ICP/OES
Mn	MIN-200-12020		ICP/OES
Mo	MIN-200-12020		ICP-MS
Na	MIN-200-12020		ICP/OES
Nb	MIN-200-12020		ICP-MS
Ni	MIN-200-12020		ICP-MS
P	MIN-200-12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
Re	MIN-200-12020		ICP-MS
S	MIN-200-12020		ICP/OES
Sb	MIN-200-12020		ICP-MS
Sc	MIN-200-12020		ICP-MS
Se	MIN-200-12020		ICP-MS
Sn	MIN-200-12020		ICP-MS
Sr	MIN-200-12020		ICP-MS
Ta	MIN-200-12020		ICP-MS
Te	MIN-200-12020		ICP-MS
Th	MIN-200-12020		ICP-MS
Ti	MIN-200-12020		ICP/OES
Tl	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
V	MIN-200-12020		ICP/OES
W	MIN-200-12020		ICP-MS
Y	MIN-200-12020		ICP-MS
Zn	MIN-200-12020		ICP-MS
Zr	MIN-200-12020		ICP-MS
Magnetics	MIN-200-12041		DAVIS TUBE

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Method Summary

CLIENT NAME: PIONEER EXPLORATION CORPORATION

AGAT WORK ORDER: 15D047901

PROJECT: Pacific Iron

ATTENTION TO: VINCENT LI

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES

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CLIENT NAME: PIONEER EXPLORATION CORPORATION
708 - 1155 WEST PENDER STREET
VANCOUVER, BC V6E2P4
(604) 336-7666

ATTENTION TO: VINCENT LI

PROJECT: Pacific Copper East

AGAT WORK ORDER: 15D043372

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Dec 08, 2015

PAGES (INCLUDING COVER): 30

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.

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Certificate of Analysis

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.2	0.01
E5123557 (7202511)	0.17	6.69	<0.2	442	1.18	0.06	2.22	0.18	29.8	13.4	22.2	0.84	11.7	2.59
E5123558 (7202512)	0.18	3.73	2.6	247	1.33	0.09	1.93	0.42	37.6	14.4	15.8	0.74	24.9	2.35
E5123559 (7202513)	0.20	6.72	3.5	397	1.01	0.09	2.81	0.21	32.8	16.3	51.4	0.89	37.8	3.86
E5124010 (7202514)	0.19	7.34	2.4	300	0.91	0.10	3.82	0.09	45.0	26.7	92.5	0.78	91.8	5.94
E5124011 (7202515)	0.18	7.12	1.8	276	0.76	0.07	4.00	0.22	29.1	29.3	107	0.82	116	5.30
E5124012 (7202516)	0.15	5.05	0.8	200	0.88	0.06	2.54	0.21	39.2	29.0	39.9	0.70	60.9	3.95
E5124013 (7202517)	0.17	4.65	2.5	165	0.56	0.06	3.19	0.30	22.0	26.4	76.7	0.81	79.1	4.31
E5124014 (7202518)	0.13	6.26	1.6	247	0.64	0.07	2.50	0.14	25.7	20.4	38.8	1.05	37.9	4.13
E5124015 (7202519)	0.18	10.1	17.9	399	2.46	0.78	2.46	0.41	83.6	16.7	14.3	3.25	185	2.97
E5124016 (7202520)	0.15	5.53	3.3	288	0.90	0.13	2.51	0.92	32.1	20.6	55.4	0.98	47.4	3.47
E5124017 (7202521)	0.17	6.36	0.5	377	1.19	0.06	3.14	0.12	38.6	24.3	71.1	1.02	27.4	5.59
E5124018 (7202522)	0.15	3.12	<0.2	189	0.44	0.14	1.04	0.11	18.7	9.68	32.3	0.88	12.8	2.56
E5124019 (7202523)	0.14	5.59	2.5	171	0.60	0.08	4.85	0.23	16.9	37.1	267	1.29	82.4	5.54
E5124020 (7202524)	0.22	7.06	8.9	363	1.01	0.22	3.73	1.01	31.3	20.4	64.4	1.09	59.4	4.68
E5124021 (7202525)	0.17	6.64	1.5	348	0.80	0.07	3.93	0.13	26.3	38.0	148	1.12	90.8	5.99
E5124022 (7202526)	0.13	3.72	1.2	128	0.52	0.07	1.71	0.25	19.1	81.7	46.4	0.70	26.5	3.97
E5124023 (7202527)	0.25	4.84	4.5	224	0.82	0.06	2.41	0.38	25.4	25.2	75.6	0.87	71.2	3.69
E5124024 (7202528)	0.19	7.61	2.6	224	0.60	0.08	6.73	0.26	20.7	34.7	116	1.09	69.9	7.02
E5124025 (7202529)	0.22	4.18	14.1	243	0.73	0.10	2.58	0.70	18.3	11.2	48.6	0.89	42.9	2.94
E5124149 (7202530)	0.15	5.65	2.7	363	1.10	0.09	2.12	0.36	30.7	23.7	32.8	0.84	20.2	3.56
E5124150 (7202531)	0.18	7.72	13.3	443	1.09	0.10	3.39	0.33	35.6	23.6	76.9	1.49	51.1	7.20
E5124151 (7202532)	0.47	4.16	<0.2	252	0.90	0.05	2.51	0.18	38.0	19.4	22.9	0.51	21.7	2.36
E5124152 (7202533)	0.27	8.91	5.8	571	1.32	0.08	3.74	0.13	39.3	20.7	23.9	2.47	35.7	5.62
E5124153 (7202534)	0.29	7.09	29.1	263	0.76	0.07	2.70	1.68	28.9	37.2	173	1.15	100	6.05
E5124154 (7202535)	0.26	7.93	13.4	511	1.18	0.12	3.16	0.22	41.0	25.4	86.9	1.30	56.5	7.44
E5124155 (7202536)	0.19	8.13	2.1	381	1.06	0.06	3.78	0.17	46.3	19.8	47.8	0.69	44.3	5.33
E5124156 (7202537)	0.15	8.93	2.6	408	0.96	0.09	4.12	0.18	35.5	26.7	50.7	0.80	66.6	6.52
E5124157 (7202538)	0.14	7.80	3.8	375	1.12	0.06	3.12	0.14	38.9	16.6	51.0	0.67	34.3	4.53
E5124158 (7202539)	0.12	7.35	1.5	485	0.98	0.06	2.68	0.08	42.9	16.7	31.5	0.90	23.1	5.05
E5124159 (7202540)	0.11	4.00	<0.2	249	0.83	0.07	2.40	0.32	29.0	17.9	35.0	0.61	82.2	2.54
E5124160 (7202541)	0.20	7.96	11.8	424	1.14	0.11	2.90	0.34	37.2	27.6	71.1	1.48	57.7	8.20
E5124161 (7202542)	0.18	8.59	6.6	460	1.24	0.10	2.45	0.13	40.3	22.9	47.2	3.70	56.5	6.96

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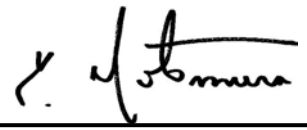

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Certificate of Analysis

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.2	0.01
E5124162 (7202543)	0.32	7.77	10.2	246	0.74	0.06	3.00	0.24	26.4	43.7	209	1.13	111	8.02
E5124163 (7202544)	0.20	7.53	9.6	272	0.73	0.07	2.97	0.21	26.7	34.9	151	1.17	87.7	7.12
E5124164 (7202545)	0.17	7.10	0.2	398	0.73	0.11	3.41	0.13	26.3	22.3	44.1	1.31	70.3	4.83
E5124165 (7202546)	0.17	6.58	2.2	371	0.71	0.07	3.76	0.23	27.4	20.2	42.0	1.26	69.5	5.57
E5124166 (7202547)	0.13	6.41	1.9	287	0.75	0.06	3.00	0.20	31.9	22.2	47.6	1.05	30.0	5.37
E5124167 (7202548)	0.21	7.74	1.7	341	0.65	0.20	5.14	0.34	28.9	35.7	104	1.19	71.9	8.74
E5124168 (7202549)	0.21	7.93	1.1	239	0.90	0.08	4.69	0.14	37.3	30.2	91.0	0.60	85.5	6.37
E5124169 (7202550)	0.17	6.59	0.9	206	0.62	0.08	3.96	0.17	27.6	33.0	106	0.75	142	5.45
E5124170 (7202551)	0.20	8.62	<0.2	270	0.85	0.09	5.82	0.19	37.7	41.5	103	0.59	162	7.52
E5124171 (7202552)	0.11	6.50	<0.2	390	0.86	0.04	2.79	0.10	31.1	17.9	49.0	0.98	24.8	3.76
E5124172 (7202553)	0.10	5.12	0.8	263	0.62	0.05	2.91	0.16	23.1	30.0	47.0	1.06	57.9	4.17
E5124173 (7202554)	0.25	7.98	1.3	279	0.76	0.07	3.67	0.15	27.8	43.3	80.6	1.45	111	7.70
E5124174 (7202555)	0.18	6.81	0.5	315	0.78	0.07	3.99	0.13	30.3	38.3	62.5	1.24	56.7	6.29
E5124175 (7202556)	0.16	7.52	18.9	307	0.87	0.07	2.98	0.40	24.9	28.7	71.6	1.14	81.1	5.82
E5124176 (7202557)	0.30	6.37	3.9	182	0.81	0.06	3.85	0.60	26.3	36.6	76.2	0.98	125	6.56
E5124177 (7202558)	0.27	4.46	1.3	257	0.84	0.07	2.63	0.66	28.7	36.2	95.6	1.10	102	4.36
E5124178 (7202559)	0.17	7.55	1.5	453	0.72	0.05	4.44	0.14	27.0	40.2	139	1.35	76.0	6.65
E5124179 (7202560)	0.14	6.69	<0.2	317	0.77	0.07	3.84	0.12	28.3	27.5	91.7	1.05	21.3	6.51
E5124180 (7202561)	0.14	6.55	4.2	227	0.73	0.09	7.21	0.25	28.1	27.5	70.7	0.84	96.4	5.88
E5124181 (7202562)	0.12	4.64	<0.2	182	0.64	0.06	3.45	0.15	19.5	34.5	141	1.17	34.1	5.02
E5124182 (7202563)	0.22	8.89	8.0	364	1.49	0.35	5.35	0.25	46.0	35.7	131	1.64	87.8	7.38
E5124183 (7202564)	0.18	6.64	0.5	259	0.78	0.10	6.46	0.20	25.0	47.0	198	1.08	118	8.14
E5124184 (7202565)	0.12	5.79	<0.2	199	0.57	0.07	3.53	0.11	25.1	45.3	57.6	0.77	33.6	5.34
E5124185 (7202566)	1.19	5.02	27.7	224	0.78	0.09	3.09	2.06	27.0	22.4	153	1.55	46.1	4.28
E5124186 (7202567)	0.42	6.79	10.7	257	0.89	0.15	4.01	0.57	29.3	33.7	192	1.32	63.9	6.48
E5124187 (7202568)	0.18	3.27	5.5	124	0.41	0.08	2.48	0.28	15.1	19.6	87.2	0.71	66.4	2.82
E5124427 (7202569)	0.15	7.19	2.4	434	1.00	0.16	3.05	0.10	42.5	15.2	44.5	0.66	26.3	5.23
E5124428 (7202570)	0.13	7.13	1.0	524	0.95	0.15	2.49	0.11	48.2	15.6	22.8	0.69	22.2	4.40
E5124429 (7202571)	0.18	7.57	13.3	423	1.04	0.12	3.79	0.30	41.7	26.2	77.8	1.48	53.5	8.98
E5124430 (7202572)	0.23	6.27	19.2	283	0.73	0.07	2.41	0.26	30.5	32.5	148	2.03	118	6.13
E5124431 (7202573)	0.31	8.03	6.7	562	1.22	0.13	2.38	0.26	41.0	23.9	46.6	2.32	48.7	6.71
E5124432 (7202574)	0.20	7.49	9.0	226	0.63	0.05	3.21	0.21	25.2	42.6	152	1.03	123	7.93

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.2	0.01
E5124433 (7202575)	0.16	7.60	8.8	270	0.68	0.06	3.90	0.11	29.1	44.6	204	1.14	124	8.16
E5124434 (7202576)	0.20	6.75	12.2	235	0.90	0.13	2.45	0.38	33.6	35.6	105	0.86	98.9	5.14
E5124435 (7202577)	0.15	6.19	<0.2	194	0.69	0.06	3.85	0.13	28.4	39.1	78.3	0.53	108	5.69
E5124436 (7202578)	0.18	7.92	<0.2	308	0.79	0.09	5.46	0.11	36.6	36.4	91.4	0.68	117	6.82
E5124437 (7202579)	0.17	8.01	<0.2	273	0.79	0.08	5.74	0.11	40.3	37.5	86.5	0.66	113	7.00
E5124438 (7202580)	0.18	5.75	<0.2	145	0.68	0.10	3.56	0.27	30.9	52.8	104	1.08	124	5.50
E5124439 (7202581)	0.17	8.42	<0.2	211	0.76	0.09	7.84	0.15	38.2	36.6	80.0	0.58	91.3	8.55
E5124440 (7202582)	0.15	7.70	<0.2	243	0.49	0.04	5.71	0.11	20.1	41.8	74.7	0.89	74.6	8.75
E5124441 (7202583)	0.15	7.21	<0.2	241	0.74	0.06	4.17	0.12	27.6	38.7	110	1.09	83.6	7.04
E5124442 (7202584)	0.18	6.54	0.6	229	0.77	0.07	3.58	0.17	31.4	37.3	63.8	1.18	80.2	6.47
E5124443 (7202585)	0.32	6.59	5.6	177	0.70	0.12	4.98	0.34	22.9	40.3	106	0.94	83.8	6.69
E5124444 (7202586)	0.26	5.13	20.8	173	0.62	0.07	3.57	0.67	19.5	29.6	103	0.94	149	4.58
E5124445 (7202587)	0.16	5.94	<0.2	173	0.58	0.07	4.76	0.12	25.7	34.0	78.6	0.56	187	5.43
E5124446 (7202588)	0.17	6.41	<0.2	357	0.82	0.04	3.64	0.12	34.1	35.6	259	1.96	28.9	6.88
E5124447 (7202589)	0.16	7.41	<0.2	342	0.90	0.05	4.41	0.08	41.2	37.7	105	0.75	32.0	11.4
E5124448 (7202590)	0.13	6.37	3.4	198	0.85	0.07	8.30	0.30	24.1	39.4	138	0.95	97.9	6.92
E5124449 (7202591)	0.54	6.45	25.8	367	1.14	0.29	4.01	2.93	36.2	18.4	64.0	1.71	57.3	4.66
E5124450 (7202592)	0.28	6.79	12.0	316	0.87	0.24	6.17	0.69	27.2	20.3	45.9	1.09	59.5	4.83
E5124451 (7202593)	0.12	6.66	2.0	198	0.63	0.09	6.93	0.14	21.7	38.4	140	0.85	61.3	7.62
E5124452 (7202594)	0.11	7.22	<0.2	213	0.61	0.08	5.34	0.11	21.5	50.4	283	1.18	99.8	7.75
E5124453 (7202595)	0.11	6.03	<0.2	233	0.56	0.07	2.94	0.12	23.2	58.2	46.2	1.04	27.3	5.96
E5124454 (7202596)	0.17	7.91	10.8	334	0.89	0.17	5.03	0.31	37.6	39.4	167	0.95	75.8	6.69
E5124455 (7202597)	0.20	6.48	5.2	206	0.70	0.14	3.75	0.55	27.9	41.9	97.1	1.05	146	6.28
E5124456 (7202598)	0.26	7.97	9.9	295	0.84	0.16	5.65	0.44	36.8	46.6	211	0.94	70.8	7.46
E5124457 (7202599)	0.20	5.21	15.3	331	1.00	0.12	2.17	0.94	31.2	15.5	41.1	1.29	33.6	4.02
E5124510 (7202600)	0.15	7.43	6.7	466	1.03	0.27	4.12	0.11	42.6	19.8	30.7	0.80	24.8	6.06
E5124511 (7202601)	0.16	7.38	5.7	367	0.83	0.09	3.40	0.34	31.0	25.0	92.7	0.76	80.0	5.96
E5124512 (7202602)	0.12	8.06	1.1	467	0.93	0.13	4.38	0.09	35.1	19.2	53.5	0.75	26.2	6.42
E5124513 (7202603)	0.12	8.74	2.9	493	0.96	0.12	4.35	0.11	36.4	19.5	54.7	0.73	27.8	6.26
E5124514 (7202604)	0.16	9.36	5.9	609	1.22	0.11	2.75	0.12	37.3	20.1	38.1	2.63	38.8	6.34
E5124515 (7202605)	0.14	7.20	7.1	211	0.58	0.05	2.82	0.13	23.2	50.1	346	1.20	106	8.17
E5124516 (7202606)	0.13	5.60	0.9	157	0.73	0.07	3.39	0.37	31.8	43.9	76.1	0.49	173	5.06

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Certificate of Analysis

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.2	0.01
E5124517 (7202607)	0.20	7.81	15.3	320	0.79	0.14	3.46	0.52	33.6	31.5	132	0.86	104	6.15
E5124518 (7202608)	0.26	7.86	9.9	301	0.77	0.11	3.80	0.35	31.3	35.6	135	0.77	93.6	6.46
E5124519 (7202609)	0.20	4.48	<0.2	184	0.44	0.04	3.54	0.28	16.0	17.8	55.5	1.13	21.1	3.89
E5124520 (7202610)	0.23	7.82	<0.2	201	0.73	0.08	6.51	0.13	36.6	37.4	104	0.36	102	7.10
E5124521 (7202611)	0.17	6.48	<0.2	187	0.71	0.10	3.14	0.18	25.2	66.3	102	1.12	89.4	5.64
E5124522 (7202612)	0.11	7.03	<0.2	340	0.71	0.07	2.84	0.12	28.5	22.3	53.4	1.15	39.5	4.59
E5124523 (7202613)	0.22	8.59	64.9	497	1.28	0.90	5.02	1.78	36.2	16.8	29.6	2.16	146	5.18
E5124524 (7202614)	0.20	5.64	4.8	245	1.31	0.12	2.36	1.35	41.0	41.2	69.4	1.29	73.3	3.30
E5124525 (7202615)	0.11	3.42	<0.2	278	0.67	0.04	2.41	0.14	19.8	15.5	107	1.21	55.3	2.34
E5124526 (7202616)	0.15	6.42	<0.2	331	0.96	0.07	3.57	0.13	38.4	29.0	105	0.93	31.1	5.71
E5124527 (7202617)	0.11	4.35	<0.2	352	0.70	0.06	2.16	0.19	24.9	21.5	39.4	0.62	17.4	2.59
E5124528 (7202618)	0.22	5.82	1.0	200	0.79	0.08	6.76	0.45	23.8	32.7	100	1.08	141	5.98
E5124529 (7202619)	0.15	3.80	<0.2	291	1.31	0.09	1.74	0.53	32.3	19.8	19.7	0.58	21.2	2.49
E5124530 (7202620)	0.16	7.54	2.0	596	1.17	0.12	3.32	0.12	42.3	20.8	40.4	0.75	19.5	4.72
E5124531 (7202621)	0.15	7.78	1.5	314	0.78	0.09	4.92	0.10	29.9	51.7	180	0.92	141	7.90
E5124532 (7202622)	0.11	8.09	<0.2	185	0.61	0.06	5.39	0.13	27.2	35.5	74.2	0.93	40.3	7.29
E5124533 (7202623)	0.16	6.57	6.9	204	0.66	0.10	3.31	0.42	25.6	38.2	194	1.28	136	6.33
E5124534 (7202624)	0.17	7.50	20.7	255	0.72	0.07	3.43	0.63	25.8	39.9	158	1.30	79.2	6.63
E5124535 (7202625)	0.10	6.55	1.2	163	0.40	0.04	6.04	0.14	16.3	52.1	174	0.65	57.9	13.1
E5124536 (7202626)	0.21	6.64	18.6	361	0.91	0.09	2.02	0.71	30.6	22.9	68.4	1.63	44.1	4.86
E5124759 (7202627)	0.16	7.66	0.7	378	0.88	0.15	4.15	0.10	35.9	21.3	80.4	0.67	41.2	5.91

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Certificate of Analysis

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.2	10
E5123557 (7202511)	14.0	<0.05	2.2	0.053	0.79	17.4	14.7	1.01	780	1.29	2.14	12.8	8.8	681
E5123558 (7202512)	9.52	<0.05	0.6	0.032	0.30	26.8	9.0	0.45	2230	2.37	0.75	5.3	7.0	1020
E5123559 (7202513)	14.2	<0.05	1.5	0.060	0.69	16.1	9.9	1.08	1090	0.78	1.92	11.8	18.2	624
E5124010 (7202514)	18.4	<0.05	1.8	0.084	0.56	22.6	7.7	1.77	1190	0.92	1.97	14.6	35.2	426
E5124011 (7202515)	16.9	<0.05	1.3	0.063	0.53	13.4	8.5	2.00	1260	0.61	1.94	12.3	41.2	660
E5124012 (7202516)	10.1	<0.05	0.7	0.044	0.31	15.3	6.9	1.18	1190	2.63	0.89	6.2	23.1	884
E5124013 (7202517)	10.2	<0.05	0.6	0.046	0.27	10.1	8.0	1.65	1160	0.98	0.87	5.7	36.5	820
E5124014 (7202518)	12.7	<0.05	1.0	0.050	0.36	11.1	8.9	1.43	1050	1.06	0.87	6.0	18.5	1060
E5124015 (7202519)	22.3	<0.05	1.9	0.073	1.63	26.9	12.6	0.72	1180	1.94	1.56	14.1	13.9	743
E5124016 (7202520)	12.5	<0.05	0.8	0.051	0.46	14.4	10.3	1.03	1170	1.98	1.16	6.0	30.4	1070
E5124017 (7202521)	16.0	<0.05	0.8	0.069	0.67	16.7	9.6	1.87	1230	1.44	1.67	11.4	31.5	1010
E5124018 (7202522)	9.50	<0.05	0.4	0.035	0.28	8.7	3.5	0.69	500	0.90	0.60	5.0	14.2	1650
E5124019 (7202523)	11.6	<0.05	0.9	0.072	0.40	8.3	11.0	4.44	1410	1.15	0.89	4.9	159	757
E5124020 (7202524)	16.6	<0.05	1.6	0.077	0.89	15.1	8.1	1.73	1320	1.73	1.54	8.7	25.1	1130
E5124021 (7202525)	14.7	<0.05	1.0	0.095	0.80	12.2	8.9	3.20	1210	1.30	1.36	7.8	116	609
E5124022 (7202526)	7.80	<0.05	0.4	0.038	0.16	7.8	4.2	0.97	5740	2.55	0.41	3.0	22.7	1150
E5124023 (7202527)	10.3	<0.05	0.9	0.046	0.44	11.5	9.2	1.23	1430	1.58	0.95	5.7	39.9	987
E5124024 (7202528)	16.8	<0.05	1.5	0.077	0.39	9.7	10.0	3.26	1420	0.79	1.00	7.6	40.5	712
E5124025 (7202529)	8.69	<0.05	1.0	0.043	0.46	12.1	9.4	1.19	1190	2.75	0.82	2.7	25.6	1390
E5124149 (7202530)	13.6	<0.05	1.0	0.047	0.61	17.4	18.8	0.98	2140	2.95	1.51	6.2	13.7	772
E5124150 (7202531)	18.3	<0.05	1.9	0.080	1.15	17.9	17.8	1.69	1250	1.38	1.90	10.9	27.7	863
E5124151 (7202532)	9.05	<0.05	0.6	0.036	0.41	30.3	5.2	0.63	1110	1.79	0.97	4.4	11.2	987
E5124152 (7202533)	20.2	<0.05	1.4	0.070	1.20	18.7	14.4	1.48	1320	0.67	1.54	8.0	8.8	958
E5124153 (7202534)	16.1	<0.05	1.7	0.069	0.66	13.7	17.5	2.70	1450	2.30	1.20	8.7	101	902
E5124154 (7202535)	17.9	<0.05	1.9	0.082	1.39	21.8	14.7	1.84	1300	1.14	2.02	13.3	34.4	743
E5124155 (7202536)	18.0	<0.05	1.2	0.071	0.90	25.9	7.3	1.77	1100	0.83	2.00	10.1	20.7	865
E5124156 (7202537)	20.8	<0.05	1.5	0.082	0.71	16.4	8.3	1.89	1300	0.69	1.70	9.1	24.4	937
E5124157 (7202538)	17.9	<0.05	1.1	0.060	1.00	20.2	6.7	1.36	914	0.88	2.18	9.8	20.3	641
E5124158 (7202539)	15.5	<0.05	1.1	0.062	0.94	23.2	7.8	1.27	973	1.00	2.10	8.9	11.7	507
E5124159 (7202540)	9.49	<0.05	0.6	0.035	0.35	15.5	6.0	0.72	1000	1.04	0.96	4.4	21.9	875
E5124160 (7202541)	18.9	<0.05	2.3	0.079	1.19	18.0	17.6	1.80	1210	1.29	1.99	12.3	30.3	880
E5124161 (7202542)	20.7	<0.05	1.8	0.081	1.22	19.2	21.8	1.52	1410	0.88	1.68	10.0	16.5	871

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Certificate of Analysis

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.2	10
E5124162 (7202543)	17.9	<0.05	6.2	0.081	0.70	12.6	17.2	3.82	1270	1.96	1.46	16.3	132	646
E5124163 (7202544)	16.7	<0.05	1.8	0.068	0.73	12.6	16.1	2.59	1290	2.36	1.48	10.2	84.3	703
E5124164 (7202545)	15.3	<0.05	0.9	0.059	0.73	12.7	7.2	1.68	1170	0.87	1.07	6.2	26.8	1060
E5124165 (7202546)	14.4	<0.05	0.9	0.121	0.55	13.2	6.5	1.64	1320	0.92	1.45	6.0	16.1	1010
E5124166 (7202547)	15.2	<0.05	0.9	0.057	0.45	15.4	8.2	1.71	1580	2.03	1.37	6.2	23.0	774
E5124167 (7202548)	17.4	<0.05	1.6	0.104	0.66	13.1	7.3	3.07	1560	1.65	1.42	8.1	40.9	656
E5124168 (7202549)	19.3	<0.05	1.5	0.092	0.52	17.8	6.1	2.00	1250	0.84	2.15	10.5	38.6	598
E5124169 (7202550)	15.3	<0.05	0.9	0.061	0.34	12.2	8.2	1.94	1220	0.75	1.22	7.7	45.8	805
E5124170 (7202551)	22.3	<0.05	1.6	0.094	0.53	17.4	6.4	2.75	1430	0.44	2.10	13.3	53.8	610
E5124171 (7202552)	13.7	<0.05	1.1	0.042	0.87	15.3	6.1	1.20	1090	1.04	1.31	6.4	17.1	734
E5124172 (7202553)	10.8	<0.05	0.6	0.046	0.38	12.3	7.5	1.45	1250	1.95	0.97	4.5	28.4	784
E5124173 (7202554)	18.9	<0.05	1.3	0.082	0.56	11.9	12.8	2.67	1440	1.28	1.50	9.6	40.3	667
E5124174 (7202555)	17.2	<0.05	1.1	0.076	0.54	13.6	12.3	2.14	1650	1.34	1.60	9.8	29.7	652
E5124175 (7202556)	17.6	<0.05	1.8	0.067	1.06	12.7	11.1	2.41	1120	1.40	1.22	7.5	47.5	914
E5124176 (7202557)	17.1	<0.05	1.6	0.079	0.31	12.2	8.8	1.89	1490	1.35	1.39	8.6	47.9	777
E5124177 (7202558)	12.1	<0.05	1.1	0.054	0.35	14.8	8.6	1.14	3510	2.17	1.00	6.5	39.1	1320
E5124178 (7202559)	17.2	<0.05	1.0	0.073	0.73	12.6	10.9	3.75	1350	1.16	1.63	7.3	97.5	592
E5124179 (7202560)	16.9	<0.05	1.1	0.075	0.79	12.2	7.2	2.62	1300	1.25	1.67	8.2	58.4	535
E5124180 (7202561)	13.8	<0.05	1.4	0.127	0.54	13.5	8.7	3.60	1420	0.94	1.13	6.4	61.1	939
E5124181 (7202562)	11.6	<0.05	0.8	0.061	0.35	8.9	6.4	2.66	1300	1.60	0.97	5.6	109	641
E5124182 (7202563)	23.4	<0.05	1.6	0.108	0.93	22.7	11.0	2.71	1670	11.6	1.19	10.4	62.1	1050
E5124183 (7202564)	16.2	<0.05	1.4	0.131	0.56	11.3	13.3	4.42	1660	1.28	1.02	7.1	115	619
E5124184 (7202565)	14.4	<0.05	1.0	0.065	0.35	11.3	4.6	1.52	2870	0.99	1.36	7.2	23.1	630
E5124185 (7202566)	11.0	<0.05	1.3	0.057	0.84	17.7	11.8	2.96	1430	3.29	0.54	5.1	65.4	1350
E5124186 (7202567)	15.3	<0.05	1.3	0.086	0.57	14.8	11.0	2.45	1440	1.47	1.24	6.9	71.2	865
E5124187 (7202568)	8.17	<0.05	0.7	0.036	0.20	7.3	7.5	1.06	1240	1.13	0.38	3.7	47.4	840
E5124427 (7202569)	16.3	<0.05	1.4	0.075	0.84	24.5	7.2	1.22	973	1.28	2.08	9.1	14.2	675
E5124428 (7202570)	15.9	<0.05	1.3	0.075	1.03	27.7	6.8	1.18	951	1.10	2.38	8.7	10.6	488
E5124429 (7202571)	19.9	<0.05	2.1	0.097	1.11	22.4	14.3	1.68	1280	1.53	1.86	11.7	27.5	870
E5124430 (7202572)	16.0	<0.05	1.5	0.067	0.65	14.0	17.5	1.81	1870	1.49	0.98	9.4	70.5	1110
E5124431 (7202573)	18.9	<0.05	6.5	0.079	1.55	21.7	17.8	1.42	1200	1.35	1.83	15.9	22.2	859
E5124432 (7202574)	18.3	<0.05	2.1	0.077	0.55	11.7	14.0	3.45	1320	1.35	1.52	11.8	112	632

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Certificate of Analysis

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.2	10
E5124433 (7202575)	18.0	<0.05	2.0	0.082	0.63	13.8	15.3	3.81	1220	0.90	1.72	10.5	135	503
E5124434 (7202576)	17.0	<0.05	1.3	0.089	0.41	15.0	11.5	1.62	1380	2.24	1.36	8.2	44.5	875
E5124435 (7202577)	15.7	<0.05	1.2	0.073	0.32	12.3	6.6	1.81	1330	0.98	1.32	8.3	35.7	663
E5124436 (7202578)	21.5	<0.05	1.8	0.091	0.44	17.3	6.7	2.41	1310	0.62	1.68	11.0	49.2	630
E5124437 (7202579)	21.6	<0.05	1.9	0.089	0.41	18.9	6.8	2.54	1310	0.61	1.63	11.6	49.1	613
E5124438 (7202580)	13.5	<0.05	0.7	0.063	0.22	10.9	9.8	1.90	1810	1.22	0.88	7.1	49.1	1030
E5124439 (7202581)	21.3	<0.05	1.7	0.100	0.42	17.2	5.6	2.66	1490	0.65	1.68	12.3	40.3	741
E5124440 (7202582)	17.0	<0.05	1.1	0.070	0.38	9.0	5.7	3.26	1380	0.70	1.10	5.4	29.7	471
E5124441 (7202583)	17.7	<0.05	1.2	0.074	0.53	12.2	9.6	2.67	1360	0.88	1.47	7.8	59.5	725
E5124442 (7202584)	17.6	<0.05	1.1	0.075	0.47	13.0	8.9	2.00	1320	1.69	1.47	9.0	40.6	798
E5124443 (7202585)	15.0	<0.05	1.2	0.110	0.32	10.7	8.8	3.12	2090	1.83	0.80	6.4	54.8	861
E5124444 (7202586)	12.1	<0.05	1.1	0.054	0.32	9.6	8.7	2.02	1380	1.45	0.89	5.8	58.8	927
E5124445 (7202587)	14.3	<0.05	1.1	0.067	0.22	10.9	5.8	1.81	1230	1.41	1.11	6.5	42.8	956
E5124446 (7202588)	16.7	<0.05	1.0	0.075	0.53	15.0	7.6	2.69	1370	1.07	1.54	9.2	111	969
E5124447 (7202589)	19.7	<0.05	1.5	0.080	0.90	19.1	5.4	2.62	1490	0.84	2.15	13.1	38.3	867
E5124448 (7202590)	14.4	<0.05	1.6	0.128	0.44	12.2	12.2	6.05	1590	0.93	0.85	6.2	103	1150
E5124449 (7202591)	14.6	<0.05	1.5	0.081	0.84	21.5	10.8	2.23	2000	3.23	1.13	6.4	29.3	1800
E5124450 (7202592)	15.5	<0.05	1.4	0.078	0.80	14.2	7.4	1.85	1290	5.03	1.33	4.8	24.0	1280
E5124451 (7202593)	16.0	<0.05	1.3	0.114	0.47	10.1	8.4	4.33	1510	1.71	1.12	7.2	104	686
E5124452 (7202594)	16.5	<0.05	1.1	0.084	0.57	9.1	10.3	4.52	1340	1.13	1.40	7.3	183	422
E5124453 (7202595)	16.3	<0.05	0.9	0.070	0.27	10.1	6.1	1.41	4600	2.70	1.03	6.1	19.2	879
E5124454 (7202596)	19.3	<0.05	1.6	0.097	0.80	18.8	10.2	3.06	1420	1.36	1.45	7.8	82.5	777
E5124455 (7202597)	15.7	<0.05	1.3	0.074	0.48	12.7	8.9	2.13	1330	1.21	1.11	7.2	68.1	937
E5124456 (7202598)	19.3	<0.05	1.7	0.097	0.76	17.8	9.8	3.50	1450	1.36	1.41	8.7	93.7	728
E5124457 (7202599)	12.1	<0.05	1.6	0.053	0.76	18.8	12.8	1.59	1110	2.78	0.91	5.6	29.8	1150
E5124510 (7202600)	18.2	<0.05	1.4	0.083	0.90	21.8	9.4	1.37	1090	1.01	2.04	8.3	16.8	631
E5124511 (7202601)	16.8	<0.05	1.4	0.067	0.71	15.1	9.9	1.83	1070	0.79	1.74	9.7	36.9	808
E5124512 (7202602)	17.5	<0.05	1.3	0.083	0.92	17.4	9.3	1.40	1120	0.90	2.08	8.6	16.8	603
E5124513 (7202603)	18.2	<0.05	1.3	0.080	0.96	18.3	9.4	1.48	1160	0.87	2.12	9.3	16.1	573
E5124514 (7202604)	19.8	<0.05	1.6	0.072	1.60	17.4	14.7	1.37	1200	1.02	1.90	11.5	13.9	782
E5124515 (7202605)	16.6	<0.05	1.9	0.077	0.57	10.7	18.6	4.56	1260	0.98	1.28	9.1	183	561
E5124516 (7202606)	13.0	<0.05	1.1	0.063	0.26	12.7	6.0	1.43	1110	1.23	1.07	7.1	37.4	834

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AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.2	10
E5124517 (7202607)	18.7	<0.05	1.7	0.079	0.60	16.4	11.5	2.33	1300	2.00	1.60	8.6	62.2	934
E5124518 (7202608)	19.5	<0.05	5.7	0.080	0.57	14.8	10.3	2.52	1250	1.68	1.70	14.7	63.7	809
E5124519 (7202609)	11.8	<0.05	0.7	0.058	0.29	7.9	5.2	1.83	1080	1.65	0.99	4.1	23.9	847
E5124520 (7202610)	22.4	<0.05	1.8	0.092	0.44	17.5	4.3	2.47	1280	0.54	2.03	13.6	48.4	581
E5124521 (7202611)	15.8	<0.05	0.8	0.067	0.27	10.5	10.7	1.60	2420	1.20	0.97	8.3	39.0	1080
E5124522 (7202612)	13.9	<0.05	0.8	0.051	0.52	11.9	8.5	1.47	1340	1.37	1.02	5.5	22.6	986
E5124523 (7202613)	22.3	<0.05	1.5	0.107	1.04	18.1	9.3	1.10	2610	2.84	1.09	9.1	16.5	1070
E5124524 (7202614)	11.6	<0.05	0.7	0.063	0.33	18.7	9.6	1.00	1890	3.00	1.06	5.0	45.6	921
E5124525 (7202615)	7.86	<0.05	0.3	0.029	0.36	12.3	7.2	1.20	979	5.52	0.60	3.0	37.2	998
E5124526 (7202616)	15.7	<0.05	0.9	0.072	0.65	15.2	7.4	2.27	1570	1.17	1.62	10.1	44.8	973
E5124527 (7202617)	8.49	<0.05	0.4	0.035	0.26	10.1	5.7	1.02	1550	1.29	0.64	3.5	20.6	1210
E5124528 (7202618)	12.6	<0.05	1.3	0.147	0.46	12.9	11.0	6.64	1520	0.92	0.94	5.6	61.5	872
E5124529 (7202619)	7.95	<0.05	0.5	0.034	0.51	18.2	2.8	0.64	1590	2.56	0.84	3.8	11.1	786
E5124530 (7202620)	16.8	<0.05	1.4	0.064	1.43	22.2	4.4	1.27	1050	1.09	2.17	9.6	14.5	589
E5124531 (7202621)	18.0	<0.05	1.5	0.099	0.73	13.6	9.1	4.14	1440	0.96	1.70	9.9	140	654
E5124532 (7202622)	19.4	<0.05	1.1	0.086	0.30	11.6	8.2	2.49	1580	0.78	1.12	6.5	25.7	879
E5124533 (7202623)	17.0	<0.05	1.4	0.077	0.47	11.9	12.2	2.91	1360	1.04	1.21	8.7	95.7	787
E5124534 (7202624)	17.1	<0.05	1.6	0.074	0.69	12.8	15.4	3.49	1290	1.50	1.28	8.1	86.5	847
E5124535 (7202625)	17.9	<0.05	1.0	0.083	0.33	7.1	7.1	4.49	1750	0.70	0.96	4.4	48.2	362
E5124536 (7202626)	15.2	<0.05	1.9	0.058	1.03	17.4	15.8	2.10	1140	3.34	0.89	7.0	42.1	1010
E5124759 (7202627)	17.8	<0.05	1.4	0.082	0.66	18.3	7.9	1.63	1130	1.21	1.86	9.1	26.7	729

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AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
E5123557 (7202511)	7.3	19.3	0.004	0.10	0.76	19.9	1.6	0.6	313	1.15	0.87	3.0	0.33	0.18
E5123558 (7202512)	8.8	11.7	0.004	0.14	0.46	12.0	1.4	0.5	135	0.49	0.39	1.5	0.22	0.14
E5123559 (7202513)	7.4	19.2	0.004	0.05	1.37	22.7	1.6	0.7	354	1.23	0.36	2.5	0.41	0.12
E5124010 (7202514)	4.9	13.9	0.004	0.03	0.65	29.8	1.6	1.0	442	1.57	0.25	2.7	0.70	0.08
E5124011 (7202515)	8.4	14.8	0.002	0.04	0.48	29.7	1.4	0.7	348	1.55	0.22	2.0	0.59	0.08
E5124012 (7202516)	6.4	10.5	0.006	0.11	0.35	17.3	1.9	0.5	182	0.55	0.17	1.3	0.37	0.09
E5124013 (7202517)	9.0	9.8	0.004	0.09	0.76	21.0	1.9	0.5	198	0.41	0.11	1.0	0.38	0.08
E5124014 (7202518)	7.7	13.7	0.002	0.08	0.39	23.4	1.4	0.5	230	0.78	0.14	2.1	0.39	0.10
E5124015 (7202519)	5.1	57.3	0.004	0.03	0.91	16.3	1.8	1.4	267	2.02	0.24	4.2	0.26	0.30
E5124016 (7202520)	8.6	17.0	0.006	0.08	0.59	17.1	2.1	0.6	234	0.45	0.13	1.7	0.31	0.12
E5124017 (7202521)	6.3	22.6	<0.002	0.06	0.25	24.4	2.0	1.0	285	0.87	0.11	2.5	0.61	0.12
E5124018 (7202522)	10.2	11.7	<0.002	0.11	0.35	9.1	1.6	0.6	105	0.38	0.11	1.1	0.28	0.10
E5124019 (7202523)	5.1	16.9	0.004	0.08	0.50	29.2	1.9	0.8	184	0.48	0.09	1.5	0.37	0.17
E5124020 (7202524)	9.8	30.7	0.003	0.05	0.97	22.8	1.8	0.9	325	0.77	0.17	2.9	0.40	0.23
E5124021 (7202525)	4.8	29.3	<0.002	0.05	0.57	27.1	1.6	1.1	233	0.70	0.10	2.1	0.43	0.15
E5124022 (7202526)	17.4	5.2	<0.002	0.16	0.26	11.0	1.6	0.4	124	0.25	0.06	0.9	0.21	0.10
E5124023 (7202527)	7.4	17.1	0.002	0.12	0.64	18.4	2.3	0.6	217	0.33	0.07	1.2	0.36	0.14
E5124024 (7202528)	5.4	12.4	<0.002	0.04	1.23	40.1	1.6	0.7	475	1.26	0.08	1.6	0.56	0.08
E5124025 (7202529)	9.5	20.1	0.008	0.09	1.12	15.6	3.1	5.3	173	0.20	0.07	0.9	0.20	0.28
E5124149 (7202530)	7.0	19.5	0.002	0.10	0.48	18.9	1.4	0.7	258	0.44	0.04	2.2	0.32	0.15
E5124150 (7202531)	8.6	36.2	0.002	0.03	1.61	29.8	1.6	1.0	349	1.31	0.10	3.1	0.66	0.25
E5124151 (7202532)	5.7	13.5	<0.002	0.09	0.50	13.9	1.5	0.5	225	0.24	0.04	1.3	0.24	0.08
E5124152 (7202533)	7.3	44.0	0.003	0.04	0.88	24.3	1.4	0.8	480	0.85	0.06	3.3	0.39	0.23
E5124153 (7202534)	12.1	23.9	0.003	0.06	0.81	34.2	1.8	0.9	239	0.80	0.09	2.0	0.58	0.24
E5124154 (7202535)	9.0	43.0	<0.002	0.05	1.45	29.5	1.9	1.2	346	1.20	0.08	3.1	0.70	0.26
E5124155 (7202536)	6.2	29.0	0.003	0.04	0.49	23.9	1.8	0.9	392	1.05	0.05	3.5	0.46	0.13
E5124156 (7202537)	6.9	21.8	0.002	0.03	0.42	30.1	1.6	0.9	436	1.23	0.07	2.3	0.54	0.12
E5124157 (7202538)	6.2	29.4	0.003	0.03	0.55	20.0	1.5	1.0	350	0.95	0.06	3.0	0.43	0.13
E5124158 (7202539)	6.8	25.0	0.002	0.04	0.53	24.2	1.4	0.8	318	0.93	0.03	2.7	0.46	0.14
E5124159 (7202540)	6.9	10.9	<0.002	0.09	0.38	12.8	1.5	0.5	183	0.30	0.03	1.3	0.26	0.08
E5124160 (7202541)	10.3	39.6	0.003	0.06	1.99	34.2	2.1	1.2	350	0.93	0.06	3.1	0.88	0.25
E5124161 (7202542)	12.0	50.7	<0.002	0.03	1.48	27.6	1.7	1.0	342	0.98	0.08	3.0	0.57	0.30

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Certificate of Analysis

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
E5124162 (7202543)	6.2	22.8	0.005	0.03	0.84	43.0	2.3	0.9	264	1.59	2.79	8.0	0.79	0.18
E5124163 (7202544)	11.6	26.0	0.004	0.10	0.83	38.0	2.1	0.9	323	0.92	1.00	2.2	0.65	0.18
E5124164 (7202545)	5.8	25.6	0.005	0.06	0.37	23.2	1.5	0.5	272	0.46	0.51	2.3	0.41	0.15
E5124165 (7202546)	12.2	18.5	0.004	0.06	0.44	25.6	1.6	8.9	273	0.38	0.27	1.4	0.44	0.11
E5124166 (7202547)	6.3	13.9	0.004	0.04	0.24	23.7	1.9	0.7	260	0.47	0.24	1.7	0.44	0.11
E5124167 (7202548)	9.3	21.6	0.005	0.04	0.37	37.1	1.6	1.1	295	1.13	0.20	2.3	0.62	0.11
E5124168 (7202549)	7.0	13.1	0.006	0.03	1.28	32.1	1.8	2.2	424	0.88	0.16	2.2	0.71	0.07
E5124169 (7202550)	6.5	9.4	0.004	0.07	0.50	25.8	1.8	0.7	381	0.65	0.09	1.2	0.51	0.06
E5124170 (7202551)	5.4	15.7	0.004	0.01	0.54	39.9	1.9	1.1	518	1.41	0.11	2.4	0.83	0.07
E5124171 (7202552)	5.8	33.0	<0.002	0.05	0.22	16.5	1.2	0.5	227	0.53	0.07	2.7	0.34	0.19
E5124172 (7202553)	6.7	14.4	<0.002	0.10	0.29	20.7	2.1	0.5	195	0.27	0.03	1.3	0.37	0.10
E5124173 (7202554)	5.9	17.4	0.003	0.04	0.33	37.5	2.0	0.9	255	1.20	0.09	2.2	0.67	0.12
E5124174 (7202555)	5.6	17.0	0.002	0.07	0.46	34.7	2.2	0.9	277	1.20	0.07	4.2	0.61	0.11
E5124175 (7202556)	8.4	25.9	0.002	0.04	0.93	27.3	1.9	0.8	284	0.57	0.25	2.0	0.55	0.22
E5124176 (7202557)	6.9	9.4	0.002	0.06	0.53	32.7	2.6	0.9	307	0.51	0.08	1.2	0.69	0.07
E5124177 (7202558)	8.0	13.6	0.003	0.12	0.53	22.0	2.8	0.7	210	0.36	0.05	1.2	0.44	0.13
E5124178 (7202559)	5.2	24.1	0.004	0.04	0.22	33.3	1.8	0.9	318	0.67	0.12	2.1	0.57	0.13
E5124179 (7202560)	5.2	22.3	<0.002	0.04	0.26	26.2	1.7	1.1	287	0.56	0.06	2.2	0.61	0.12
E5124180 (7202561)	5.5	20.9	<0.002	0.08	0.31	23.1	1.4	1.2	319	0.44	0.06	2.7	0.38	0.14
E5124181 (7202562)	6.5	13.7	<0.002	0.07	0.28	23.5	1.7	0.8	179	0.35	0.04	1.2	0.38	0.09
E5124182 (7202563)	8.0	33.4	<0.002	0.12	0.77	33.8	1.7	1.4	382	1.20	0.59	3.2	0.55	0.25
E5124183 (7202564)	4.5	22.4	<0.002	0.06	0.31	31.1	1.7	1.4	255	0.86	0.15	2.8	0.43	0.15
E5124184 (7202565)	8.2	11.1	0.002	0.07	0.33	25.1	1.6	0.8	308	0.48	0.08	1.4	0.52	0.07
E5124185 (7202566)	73.5	34.6	<0.002	0.10	3.42	21.6	2.2	0.6	174	0.27	0.17	1.8	0.32	0.38
E5124186 (7202567)	11.7	22.9	<0.002	0.07	1.42	30.6	1.9	1.0	318	0.63	0.19	2.2	0.45	0.17
E5124187 (7202568)	7.0	8.4	<0.002	0.12	0.38	13.3	2.2	0.5	162	0.20	0.05	0.6	0.28	0.07
E5124427 (7202569)	7.7	23.6	<0.002	0.04	0.63	24.8	1.3	0.9	323	1.01	0.06	3.0	0.46	0.12
E5124428 (7202570)	6.1	26.9	<0.002	0.03	0.59	23.8	1.5	1.0	302	0.78	0.06	2.9	0.47	0.13
E5124429 (7202571)	9.6	39.4	<0.002	0.05	1.64	31.4	2.0	1.3	381	0.88	0.08	3.2	0.77	0.24
E5124430 (7202572)	7.9	29.4	<0.002	0.10	1.21	29.4	2.8	0.9	223	0.53	0.08	1.9	0.65	0.24
E5124431 (7202573)	10.0	51.7	<0.002	0.03	1.62	28.0	1.9	1.2	312	1.23	2.98	10.0	0.59	0.36
E5124432 (7202574)	5.1	17.6	<0.002	0.06	0.81	39.4	1.8	0.9	270	1.03	1.04	2.0	0.79	0.12

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Certificate of Analysis

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
E5124433 (7202575)	4.8	17.3	<0.002	0.03	0.60	41.3	1.9	0.9	307	0.98	0.53	1.9	0.80	0.12
E5124434 (7202576)	7.5	14.1	<0.002	0.06	0.63	24.4	2.8	0.9	265	0.55	0.34	1.6	0.49	0.13
E5124435 (7202577)	5.3	9.1	<0.002	0.07	0.44	28.9	2.0	1.9	354	0.57	0.23	1.3	0.58	0.06
E5124436 (7202578)	4.5	12.7	<0.002	0.03	0.56	37.0	1.9	1.1	520	1.03	0.22	1.8	0.73	0.06
E5124437 (7202579)	4.5	12.0	<0.002	0.03	0.55	38.7	1.8	1.0	519	1.09	0.15	1.8	0.76	0.06
E5124438 (7202580)	12.2	8.6	<0.002	0.11	0.36	27.4	2.7	0.7	251	0.40	0.12	1.0	0.48	0.06
E5124439 (7202581)	4.4	12.3	<0.002	0.04	0.48	39.8	1.9	1.2	589	1.05	0.12	2.3	0.83	0.06
E5124440 (7202582)	18.1	12.4	<0.002	0.06	0.23	42.4	1.7	0.6	369	0.71	0.08	1.6	0.69	0.06
E5124441 (7202583)	4.7	17.3	<0.002	0.04	0.26	36.0	2.3	0.8	253	0.66	0.09	1.3	0.64	0.09
E5124442 (7202584)	6.0	17.3	<0.002	0.07	0.84	32.6	2.6	0.9	260	0.53	0.08	1.6	0.62	0.10
E5124443 (7202585)	7.4	12.1	<0.002	0.07	0.60	28.6	2.1	0.8	356	0.53	0.09	1.5	0.52	0.09
E5124444 (7202586)	7.9	13.7	<0.002	0.11	1.05	23.4	3.6	0.7	286	0.35	0.09	1.2	0.42	0.12
E5124445 (7202587)	6.6	7.5	<0.002	0.10	0.42	25.5	3.2	0.7	321	0.36	0.08	1.0	0.49	0.05
E5124446 (7202588)	4.9	18.1	<0.002	0.06	0.42	28.1	2.5	0.9	284	0.55	0.04	1.6	0.80	0.09
E5124447 (7202589)	4.6	28.4	<0.002	0.03	0.15	33.0	1.8	1.3	346	0.91	0.08	2.7	0.77	0.11
E5124448 (7202590)	4.3	18.0	<0.002	0.08	0.25	29.8	1.5	1.3	321	0.56	0.07	2.1	0.42	0.15
E5124449 (7202591)	29.6	33.4	<0.002	0.06	1.90	21.5	2.1	0.9	268	0.36	0.20	2.7	0.33	0.31
E5124450 (7202592)	8.5	29.0	<0.002	0.09	0.91	21.3	2.0	0.8	316	0.30	0.18	2.1	0.35	0.22
E5124451 (7202593)	3.6	18.7	<0.002	0.06	0.52	28.2	1.4	1.1	343	0.71	0.23	1.7	0.47	0.11
E5124452 (7202594)	3.9	19.9	<0.002	0.10	0.77	35.6	1.5	0.9	294	0.83	0.12	1.7	0.52	0.11
E5124453 (7202595)	7.7	8.5	<0.002	0.08	0.33	21.1	1.5	0.8	277	0.36	0.10	1.5	0.44	0.07
E5124454 (7202596)	8.7	27.2	<0.002	0.07	0.90	35.4	1.9	1.1	428	0.86	0.16	2.4	0.53	0.18
E5124455 (7202597)	9.1	16.1	<0.002	0.11	0.71	28.1	2.2	0.8	306	0.49	0.19	1.4	0.57	0.12
E5124456 (7202598)	10.6	26.4	<0.002	0.17	1.12	38.7	2.1	1.0	462	0.81	0.18	2.1	0.60	0.18
E5124457 (7202599)	11.4	31.9	<0.002	0.08	1.14	17.2	3.3	0.7	182	0.31	0.09	2.2	0.35	0.31
E5124510 (7202600)	8.0	23.0	<0.002	0.03	1.38	27.6	1.5	1.2	422	0.52	0.14	2.7	0.49	0.12
E5124511 (7202601)	7.1	15.9	<0.002	0.06	0.66	27.5	1.9	0.9	358	0.71	0.23	1.9	0.57	0.11
E5124512 (7202602)	6.2	20.7	<0.002	0.03	0.70	26.4	1.4	0.9	437	0.68	0.09	2.3	0.50	0.12
E5124513 (7202603)	5.9	17.9	<0.002	0.02	0.69	24.9	1.5	0.9	431	0.66	0.06	2.1	0.50	0.12
E5124514 (7202604)	8.3	42.7	<0.002	0.03	2.86	21.2	1.5	1.0	369	1.01	0.06	3.1	0.49	0.31
E5124515 (7202605)	4.9	19.9	<0.002	0.04	0.57	41.8	1.8	0.9	219	0.87	0.06	1.4	0.79	0.12
E5124516 (7202606)	4.7	7.1	<0.002	0.10	0.36	25.3	2.8	0.7	251	0.43	0.05	1.1	0.52	0.05

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Certificate of Analysis

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
E5124517 (7202607)	6.8	16.9	<0.002	0.05	0.75	32.4	2.5	0.9	339	0.68	0.05	1.9	0.58	0.14
E5124518 (7202608)	5.4	18.9	<0.002	0.04	0.68	35.2	2.5	0.9	369	1.26	2.94	7.7	0.63	0.16
E5124519 (7202609)	5.2	9.9	<0.002	0.11	0.40	19.8	2.5	0.5	253	0.23	0.90	0.7	0.32	0.08
E5124520 (7202610)	3.9	12.0	<0.002	<0.01	0.51	40.4	1.8	1.0	585	1.09	0.58	2.0	0.84	0.05
E5124521 (7202611)	10.5	10.1	<0.002	0.09	0.49	23.4	2.1	0.8	265	0.53	0.35	1.7	0.49	0.09
E5124522 (7202612)	5.8	20.2	<0.002	0.09	0.27	20.8	2.2	0.5	262	0.40	0.24	1.9	0.37	0.11
E5124523 (7202613)	15.3	31.1	<0.002	0.11	1.22	16.7	2.7	2.5	375	0.61	0.37	2.8	0.29	0.37
E5124524 (7202614)	7.4	12.5	0.004	0.10	0.55	16.4	3.5	0.9	181	0.30	0.19	1.3	0.31	0.12
E5124525 (7202615)	11.6	17.3	<0.002	0.14	0.35	11.8	2.2	0.3	173	0.19	0.12	1.2	0.19	0.10
E5124526 (7202616)	4.6	23.0	<0.002	0.06	0.22	24.5	2.0	0.9	294	0.70	0.15	2.5	0.56	0.13
E5124527 (7202617)	8.7	8.3	<0.002	0.10	0.19	12.0	2.5	0.4	141	0.19	0.07	0.7	0.27	0.08
E5124528 (7202618)	4.4	19.8	<0.002	0.09	0.29	23.1	1.8	1.2	305	0.51	0.08	2.0	0.35	0.17
E5124529 (7202619)	8.3	18.9	<0.002	0.13	0.38	9.3	1.8	0.5	177	0.23	0.09	1.6	0.18	0.14
E5124530 (7202620)	6.0	42.9	<0.002	0.14	0.55	20.6	1.4	0.9	390	0.74	0.12	3.9	0.36	0.28
E5124531 (7202621)	3.5	26.5	<0.002	0.03	0.53	42.3	1.7	1.0	305	1.18	0.12	2.6	0.64	0.14
E5124532 (7202622)	5.8	8.9	<0.002	0.06	0.35	40.2	2.4	0.6	539	0.56	0.04	1.5	0.71	0.06
E5124533 (7202623)	9.2	18.8	<0.002	0.07	0.68	29.2	2.1	1.0	358	0.66	0.08	1.3	0.63	0.12
E5124534 (7202624)	10.0	26.7	<0.002	0.08	1.28	38.0	2.2	0.8	277	0.77	0.07	1.5	0.57	0.21
E5124535 (7202625)	3.5	10.1	<0.002	0.03	0.32	61.9	1.6	0.7	294	0.61	0.04	1.0	0.88	0.05
E5124536 (7202626)	10.6	35.5	<0.002	0.06	1.07	23.8	2.4	0.8	202	0.53	0.10	2.7	0.40	0.33
E5124759 (7202627)	5.5	15.3	<0.002	0.03	0.56	28.9	1.4	0.9	397	0.66	0.08	2.1	0.56	0.10

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Certificate of Analysis

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
E5123557 (7202511)	2.46	96.9	1.5	21.7	53.0	28.0
E5123558 (7202512)	2.04	69.5	0.9	28.0	57.7	11.7
E5123559 (7202513)	0.808	143	1.2	18.5	101	32.2
E5124010 (7202514)	0.681	222	1.1	20.8	83.8	39.2
E5124011 (7202515)	0.686	176	0.9	19.8	108	27.3
E5124012 (7202516)	2.02	119	0.7	18.8	54.7	12.3
E5124013 (7202517)	0.625	144	0.5	16.3	71.7	13.5
E5124014 (7202518)	1.09	134	0.6	15.9	64.6	23.1
E5124015 (7202519)	2.16	57.2	1.3	39.0	136	42.9
E5124016 (7202520)	0.743	112	0.6	17.1	98.8	23.0
E5124017 (7202521)	1.34	169	0.7	27.6	103	17.1
E5124018 (7202522)	0.661	59.2	0.4	10.5	35.7	8.4
E5124019 (7202523)	3.21	151	0.8	19.4	74.9	22.6
E5124020 (7202524)	3.01	129	1.3	24.1	135	51.6
E5124021 (7202525)	1.19	137	0.7	23.0	67.9	24.1
E5124022 (7202526)	1.07	79.3	0.4	10.3	73.9	10.4
E5124023 (7202527)	0.878	117	0.7	18.6	68.6	27.8
E5124024 (7202528)	1.39	254	1.1	20.1	90.5	43.2
E5124025 (7202529)	4.33	88.3	0.4	19.1	100	33.0
E5124149 (7202530)	2.03	112	0.7	21.7	80.1	28.5
E5124150 (7202531)	1.59	251	1.5	21.5	92.0	60.0
E5124151 (7202532)	0.679	73.1	0.4	25.2	44.4	18.1
E5124152 (7202533)	1.28	163	1.0	22.4	62.3	44.9
E5124153 (7202534)	2.39	197	0.8	23.8	211	51.3
E5124154 (7202535)	1.90	251	2.1	22.2	79.0	55.7
E5124155 (7202536)	2.54	165	0.9	23.3	80.5	31.2
E5124156 (7202537)	1.83	209	1.0	26.1	102	38.3
E5124157 (7202538)	1.96	135	0.7	20.6	71.8	29.0
E5124158 (7202539)	1.70	180	0.8	21.8	84.2	27.1
E5124159 (7202540)	0.493	77.6	0.4	17.6	52.5	17.6
E5124160 (7202541)	1.49	316	1.2	25.2	107	78.4
E5124161 (7202542)	1.43	231	1.2	23.8	127	58.6

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AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
E5124162 (7202543)	1.42	299	1.6	23.6	89.2	69.2
E5124163 (7202544)	1.70	236	1.0	24.6	98.3	58.0
E5124164 (7202545)	1.01	151	0.6	20.5	79.8	22.6
E5124165 (7202546)	1.39	173	1.1	23.7	101	23.2
E5124166 (7202547)	2.67	181	0.8	18.5	73.2	21.1
E5124167 (7202548)	1.88	316	2.5	23.8	99.0	37.7
E5124168 (7202549)	1.70	227	0.8	24.4	81.2	41.7
E5124169 (7202550)	0.417	181	0.5	17.5	81.5	22.9
E5124170 (7202551)	0.760	272	0.8	27.3	85.0	41.8
E5124171 (7202552)	2.60	110	0.4	16.1	52.4	28.2
E5124172 (7202553)	1.21	126	0.3	19.0	63.2	13.7
E5124173 (7202554)	0.951	253	0.7	24.3	115	27.7
E5124174 (7202555)	1.91	216	0.6	24.2	95.7	23.3
E5124175 (7202556)	2.48	183	1.1	20.3	98.3	60.7
E5124176 (7202557)	0.529	233	0.6	22.2	84.1	46.7
E5124177 (7202558)	0.713	142	0.9	23.5	95.5	33.7
E5124178 (7202559)	1.49	197	11.1	21.1	84.7	25.7
E5124179 (7202560)	1.34	182	1.0	21.6	75.9	27.9
E5124180 (7202561)	3.80	124	1.7	22.5	89.0	41.3
E5124181 (7202562)	0.691	140	0.6	18.2	51.3	20.0
E5124182 (7202563)	1.39	200	1.5	31.1	121	46.5
E5124183 (7202564)	2.51	159	1.7	25.0	101	35.6
E5124184 (7202565)	0.760	170	0.5	16.9	65.6	25.8
E5124185 (7202566)	4.48	120	1.8	27.1	307	44.7
E5124186 (7202567)	3.48	166	1.8	23.3	93.2	39.0
E5124187 (7202568)	2.03	82.6	0.3	11.6	83.7	21.8
E5124427 (7202569)	1.74	170	1.0	26.5	59.7	33.3
E5124428 (7202570)	1.43	154	1.0	24.1	63.4	29.8
E5124429 (7202571)	1.72	317	1.5	25.3	104	67.0
E5124430 (7202572)	1.49	192	0.6	23.6	108	51.7
E5124431 (7202573)	1.62	220	3.2	22.1	109	66.7
E5124432 (7202574)	1.06	282	1.0	21.9	94.1	61.3

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
E5124433 (7202575)	1.10	291	0.7	22.0	87.0	59.3
E5124434 (7202576)	2.09	162	0.7	22.5	103	44.5
E5124435 (7202577)	0.491	201	0.5	20.9	67.6	30.6
E5124436 (7202578)	0.602	247	0.6	24.6	74.0	49.4
E5124437 (7202579)	0.587	256	0.6	25.3	67.1	53.5
E5124438 (7202580)	1.04	165	0.5	20.1	156	16.7
E5124439 (7202581)	1.09	291	1.2	31.5	80.6	40.8
E5124440 (7202582)	1.19	413	0.4	17.5	76.1	30.3
E5124441 (7202583)	0.716	235	0.4	25.0	97.3	27.9
E5124442 (7202584)	1.02	216	0.5	25.0	102	27.7
E5124443 (7202585)	3.16	201	1.7	20.4	128	34.1
E5124444 (7202586)	4.82	135	0.5	20.1	93.5	35.7
E5124445 (7202587)	0.398	182	0.4	20.5	62.2	32.9
E5124446 (7202588)	0.780	213	0.5	26.8	72.5	22.2
E5124447 (7202589)	1.39	398	0.8	31.1	80.3	33.3
E5124448 (7202590)	5.17	145	1.2	25.9	108	46.3
E5124449 (7202591)	3.90	117	1.4	31.1	349	49.6
E5124450 (7202592)	3.30	122	1.3	26.0	121	44.5
E5124451 (7202593)	2.03	173	6.5	22.3	73.9	35.3
E5124452 (7202594)	1.25	204	1.8	23.1	71.8	28.6
E5124453 (7202595)	0.833	186	0.8	16.2	102	23.0
E5124454 (7202596)	1.94	196	0.9	26.1	113	52.6
E5124455 (7202597)	2.14	182	0.7	19.3	119	39.2
E5124456 (7202598)	1.98	214	0.9	27.3	127	53.8
E5124457 (7202599)	4.28	104	0.7	20.6	96.4	59.9
E5124510 (7202600)	1.36	193	1.2	22.1	67.7	41.6
E5124511 (7202601)	1.10	204	0.9	20.0	144	42.6
E5124512 (7202602)	1.20	213	1.4	20.8	67.7	37.7
E5124513 (7202603)	1.19	197	1.4	20.8	66.6	39.2
E5124514 (7202604)	1.57	199	1.5	19.0	85.5	47.3
E5124515 (7202605)	0.916	295	15.4	22.7	89.0	62.9
E5124516 (7202606)	0.899	162	0.7	22.5	113	31.0

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AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
E5124517 (7202607)	2.49	203	0.7	24.0	113	52.9
E5124518 (7202608)	1.79	219	1.5	24.1	103	60.2
E5124519 (7202609)	2.43	113	0.5	15.6	58.9	16.6
E5124520 (7202610)	0.560	274	0.8	27.6	60.9	48.4
E5124521 (7202611)	0.684	164	0.6	15.6	148	22.4
E5124522 (7202612)	2.60	131	0.4	17.5	75.6	22.7
E5124523 (7202613)	3.40	93.3	1.3	30.2	296	38.9
E5124524 (7202614)	0.735	91.1	0.4	24.6	131	20.9
E5124525 (7202615)	1.64	62.0	0.3	12.1	44.5	9.3
E5124526 (7202616)	1.35	155	0.7	26.1	70.8	21.2
E5124527 (7202617)	1.30	71.3	0.3	13.8	75.3	9.2
E5124528 (7202618)	4.22	120	1.9	23.0	126	37.6
E5124529 (7202619)	1.49	55.2	0.5	19.1	51.5	16.0
E5124530 (7202620)	1.42	149	1.1	22.2	56.3	39.8
E5124531 (7202621)	1.16	204	1.0	30.7	70.7	37.8
E5124532 (7202622)	0.896	273	0.5	25.0	82.6	31.5
E5124533 (7202623)	1.52	197	0.5	19.1	104	45.1
E5124534 (7202624)	2.32	211	0.9	23.6	135	52.6
E5124535 (7202625)	0.684	675	0.4	16.5	104	32.0
E5124536 (7202626)	3.53	136	1.0	23.4	88.5	62.4
E5124759 (7202627)	1.01	211	1.0	22.4	61.8	42.0

Comments: RDL - Reported Detection Limit

7202511-7202627 As, Sb values may be low due to digestion losses.

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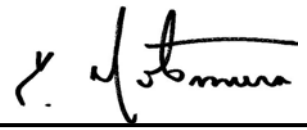

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AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Sample Login Weight	Au
Unit:	kg	ppm
Sample ID (AGAT ID) RDL:	0.01	0.001
E5123557 (7202511)	1.06	0.010
E5123558 (7202512)	0.44	<0.001
E5123559 (7202513)	0.60	<0.001
E5124010 (7202514)	1.14	<0.001
E5124011 (7202515)	0.28	0.027
E5124012 (7202516)	0.50	<0.001
E5124013 (7202517)	0.34	0.099
E5124014 (7202518)	0.14	0.106
E5124015 (7202519)	0.48	<0.001
E5124016 (7202520)	0.34	<0.001
E5124017 (7202521)	0.36	<0.001
E5124018 (7202522)	0.28	<0.001
E5124019 (7202523)	0.56	<0.001
E5124020 (7202524)	0.52	0.003
E5124021 (7202525)	0.28	<0.001
E5124022 (7202526)	0.46	0.004
E5124023 (7202527)	0.40	0.002
E5124024 (7202528)	0.60	<0.001
E5124025 (7202529)	0.40	0.002
E5124149 (7202530)	0.34	0.006
E5124150 (7202531)	0.54	<0.001
E5124151 (7202532)	0.28	0.028
E5124152 (7202533)	0.38	0.006
E5124153 (7202534)	0.50	0.002
E5124154 (7202535)	0.56	0.002
E5124155 (7202536)	0.46	<0.001
E5124156 (7202537)	0.56	<0.001
E5124157 (7202538)	0.48	0.101
E5124158 (7202539)	0.36	0.002
E5124159 (7202540)	0.30	<0.001
E5124160 (7202541)	0.58	0.017

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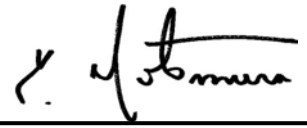

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AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Sample Login Weight	Au
Unit:	kg	ppm
Sample ID (AGAT ID) RDL:	0.01	0.001
E5124161 (7202542)	0.60	<0.001
E5124162 (7202543)	0.64	0.001
E5124163 (7202544)	0.50	0.003
E5124164 (7202545)	0.38	<0.001
E5124165 (7202546)	0.48	<0.001
E5124166 (7202547)	0.36	0.005
E5124167 (7202548)	0.52	0.005
E5124168 (7202549)	0.48	0.003
E5124169 (7202550)	0.42	0.002
E5124170 (7202551)	0.58	0.008
E5124171 (7202552)	0.24	<0.001
E5124172 (7202553)	0.30	0.003
E5124173 (7202554)	0.52	0.006
E5124174 (7202555)	0.46	<0.001
E5124175 (7202556)	0.70	0.001
E5124176 (7202557)	0.30	<0.001
E5124177 (7202558)	0.24	0.001
E5124178 (7202559)	0.44	0.002
E5124179 (7202560)	0.38	<0.001
E5124180 (7202561)	0.44	0.003
E5124181 (7202562)	0.74	0.003
E5124182 (7202563)	0.40	0.002
E5124183 (7202564)	0.42	0.006
E5124184 (7202565)	0.42	<0.001
E5124185 (7202566)	0.22	0.015
E5124186 (7202567)	0.56	0.002
E5124187 (7202568)	0.24	0.002
E5124427 (7202569)	0.64	<0.001
E5124428 (7202570)	0.38	<0.001
E5124429 (7202571)	0.70	<0.001
E5124430 (7202572)	0.28	<0.001

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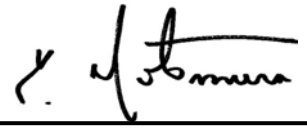

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AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Sample Login Weight	Au
Unit:	kg	ppm
Sample ID (AGAT ID) RDL:	0.01	0.001
E5124431 (7202573)	0.30	0.008
E5124432 (7202574)	0.34	0.002
E5124433 (7202575)	1.00	<0.001
E5124434 (7202576)	0.48	<0.001
E5124435 (7202577)	0.72	0.855
E5124436 (7202578)	0.58	<0.001
E5124437 (7202579)	0.82	0.007
E5124438 (7202580)	0.34	0.002
E5124439 (7202581)	0.86	0.005
E5124440 (7202582)	0.50	0.004
E5124441 (7202583)	0.44	0.006
E5124442 (7202584)	0.32	0.011
E5124443 (7202585)	0.32	0.021
E5124444 (7202586)	0.22	0.014
E5124445 (7202587)	0.38	<0.001
E5124446 (7202588)	0.36	<0.001
E5124447 (7202589)	0.40	0.049
E5124448 (7202590)	0.32	0.006
E5124449 (7202591)	0.40	0.007
E5124450 (7202592)	0.34	0.004
E5124451 (7202593)	0.44	<0.001
E5124452 (7202594)	0.70	<0.001
E5124453 (7202595)	0.22	0.001
E5124454 (7202596)	0.64	<0.001
E5124455 (7202597)	0.46	0.004
E5124456 (7202598)	0.56	0.003
E5124457 (7202599)	0.54	0.008
E5124510 (7202600)	0.46	<0.001
E5124511 (7202601)	0.54	<0.001
E5124512 (7202602)	0.26	<0.001
E5124513 (7202603)	0.52	<0.001

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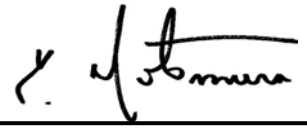

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AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Nov 17, 2015 | DATE RECEIVED: Nov 17, 2015 | DATE REPORTED: Dec 08, 2015 | SAMPLE TYPE: Other

Analyte:	Sample Login Weight	Au
Unit:	kg	ppm
Sample ID (AGAT ID) RDL:	0.01	0.001
E5124514 (7202604)	0.32	<0.001
E5124515 (7202605)	0.46	0.031
E5124516 (7202606)	0.48	0.001
E5124517 (7202607)	0.28	<0.001
E5124518 (7202608)	0.82	<0.001
E5124519 (7202609)	0.44	<0.001
E5124520 (7202610)	0.56	0.004
E5124521 (7202611)	0.30	0.002
E5124522 (7202612)	0.48	<0.001
E5124523 (7202613)	0.34	0.006
E5124524 (7202614)	0.44	<0.001
E5124525 (7202615)	0.22	0.001
E5124526 (7202616)	0.44	0.001
E5124527 (7202617)	0.22	0.005
E5124528 (7202618)	0.60	0.001
E5124529 (7202619)	0.26	0.010
E5124530 (7202620)	0.34	0.001
E5124531 (7202621)	0.76	<0.001
E5124532 (7202622)	1.10	<0.001
E5124533 (7202623)	0.38	0.003
E5124534 (7202624)	0.66	0.002
E5124535 (7202625)	0.68	<0.001
E5124536 (7202626)	0.64	0.021
E5124759 (7202627)	0.70	0.115

Comments: RDL - Reported Detection Limit

Certified By:

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Quality Assurance - Replicate

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	7202511	0.17	0.17	0.0%	7202521	0.17	0.18	5.7%	7202528	0.19	0.15	23.5%	7202545	0.169	0.151	11.3%
Al	7202511	6.69	6.84	2.2%	7202521	6.36	6.44	1.3%	7202528	7.61	7.97	4.6%	7202545	7.10	7.31	2.9%
As	7202511	< 0.2	< 0.2	0.0%	7202521	0.5	0.8		7202528	2.59	3.48	29.3%	7202545	0.2	0.7	
Ba	7202511	442	440	0.5%	7202521	377	371	1.6%	7202528	224	254	12.6%	7202545	398	398	0.0%
Be	7202511	1.18	1.12	5.2%	7202521	1.19	1.17	1.7%	7202528	0.600	0.628	4.6%	7202545	0.735	0.813	10.1%
Bi	7202511	0.06	0.06	0.0%	7202521	0.056	0.053	5.5%	7202528	0.08	0.08	0.0%	7202545	0.11	0.11	0.0%
Ca	7202511	2.22	2.30	3.5%	7202521	3.14	3.22	2.5%	7202528	6.73	7.14	5.9%	7202545	3.41	3.36	1.5%
Cd	7202511	0.18	0.18	0.0%	7202521	0.122	0.136	10.9%	7202528	0.262	0.255	2.7%	7202545	0.13	0.14	7.4%
Ce	7202511	29.8	33.1	10.5%	7202521	38.6	38.2	1.0%	7202528	20.7	22.2	7.0%	7202545	26.3	27.4	4.1%
Co	7202511	13.4	13.1	2.3%	7202521	24.3	25.2	3.6%	7202528	34.7	35.8	3.1%	7202545	22.3	23.3	4.4%
Cr	7202511	22.2	21.4	3.7%	7202521	71.1	73.4	3.2%	7202528	116	110	5.3%	7202545	44.1	45.9	4.0%
Cs	7202511	0.841	0.855	1.7%	7202521	1.02	1.00	2.0%	7202528	1.09	1.08	0.9%	7202545	1.31	1.32	0.8%
Cu	7202511	11.7	11.9	1.7%	7202521	27.4	28.6	4.3%	7202528	69.9	74.6	6.5%	7202545	70.3	71.5	1.7%
Fe	7202511	2.59	2.61	0.8%	7202521	5.59	5.89	5.2%	7202528	7.02	7.39	5.1%	7202545	4.83	5.18	7.0%
Ga	7202511	14.0	14.5	3.5%	7202521	16.0	17.0	6.1%	7202528	16.8	17.0	1.2%	7202545	15.3	16.5	7.5%
Ge	7202511	< 0.05	< 0.05	0.0%	7202521	< 0.05	< 0.05	0.0%	7202528	< 0.05	< 0.05	0.0%	7202545	< 0.05	< 0.05	0.0%
Hf	7202511	2.2	1.5		7202521	0.81	0.85	4.8%	7202528	1.5	1.5	0.0%	7202545	0.9	0.9	0.0%
In	7202511	0.053	0.051	3.8%	7202521	0.0693	0.0769	10.4%	7202528	0.0768	0.0795	3.5%	7202545	0.059	0.062	5.0%
K	7202511	0.787	0.768	2.4%	7202521	0.671	0.685	2.1%	7202528	0.39	0.41	5.0%	7202545	0.73	0.78	6.6%
La	7202511	17.4	20.1	14.4%	7202521	16.7	16.6	0.6%	7202528	9.7	10.6	8.9%	7202545	12.7	13.3	4.6%
Li	7202511	14.7	14.6	0.7%	7202521	9.6	9.3	3.2%	7202528	10.0	9.9	1.0%	7202545	7.2	8.2	13.0%
Mg	7202511	1.01	1.01	0.0%	7202521	1.87	1.92	2.6%	7202528	3.26	3.40	4.2%	7202545	1.68	1.73	2.9%
Mn	7202511	780	791	1.4%	7202521	1230	1210	1.6%	7202528	1420	1490	4.8%	7202545	1170	1200	2.5%
Mo	7202511	1.29	1.30	0.8%	7202521	1.44	1.44	0.0%	7202528	0.788	0.714	9.9%	7202545	0.87	0.87	0.0%
Na	7202511	2.14	2.16	0.9%	7202521	1.67	1.72	2.9%	7202528	1.00	1.06	5.8%	7202545	1.07	1.09	1.9%
Nb	7202511	12.8	10.8	16.9%	7202521	11.4	12.2	6.8%	7202528	7.59	7.33	3.5%	7202545	6.22	6.39	2.7%
Ni	7202511	8.8	9.8	10.8%	7202521	31.5	31.0	1.6%	7202528	40.5	40.2	0.7%	7202545	26.8	27.4	2.2%
P	7202511	681	594	13.6%	7202521	1010	911	10.3%	7202528	712	659	7.7%	7202545	1060	1090	2.8%
Pb	7202511	7.3	8.6	16.4%	7202521	6.3	6.3	0.0%	7202528	5.35	5.28	1.3%	7202545	5.83	6.22	6.5%
Rb	7202511	19.3	18.3	5.3%	7202521	22.6	23.9	5.6%	7202528	12.4	13.0	4.7%	7202545	25.6	27.4	6.8%
Re	7202511	0.004	0.002		7202521	< 0.002	0.003		7202528	< 0.002	< 0.002	0.0%	7202545	0.005	0.002	

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S	7202511	0.104	0.110	5.6%	7202521	0.06	0.06	0.0%	7202528	0.04	0.04	0.0%	7202545	0.06	0.06	0.0%
Sb	7202511	0.76	0.63	18.7%	7202521	0.250	0.288	14.1%	7202528	1.23	1.18	4.1%	7202545	0.37	0.39	5.3%
Sc	7202511	19.9	21.1	5.9%	7202521	24.4	24.1	1.2%	7202528	40.1	39.1	2.5%	7202545	23.2	25.6	9.8%
Se	7202511	1.6	1.5	6.5%	7202521	2.0	2.0	0.0%	7202528	1.6	1.5	6.5%	7202545	1.5	1.5	0.0%
Sn	7202511	0.6	0.6	0.0%	7202521	1.0	1.1	9.5%	7202528	0.73	0.77	5.3%	7202545	0.55	0.60	8.7%
Sr	7202511	313	327	4.4%	7202521	285	296	3.8%	7202528	475	498	4.7%	7202545	272	288	5.7%
Ta	7202511	1.15	1.13	1.8%	7202521	0.871	1.06	19.6%	7202528	1.26	1.38	9.1%	7202545	0.46	0.46	0.0%
Te	7202511	0.87	0.54		7202521	0.115	0.131	13.0%	7202528	0.08	0.10	22.2%	7202545	0.51	0.46	10.3%
Th	7202511	3.0	2.5	18.2%	7202521	2.45	2.36	3.7%	7202528	1.55	1.52	2.0%	7202545	2.27	1.78	24.2%
Ti	7202511	0.33	0.33	0.0%	7202521	0.605	0.587	3.0%	7202528	0.564	0.596	5.5%	7202545	0.41	0.42	2.4%
Tl	7202511	0.177	0.162	8.8%	7202521	0.116	0.111	4.4%	7202528	0.08	0.08	0.0%	7202545	0.15	0.15	0.0%
U	7202511	2.46	2.30	6.7%	7202521	1.34	1.19	11.9%	7202528	1.39	1.32	5.2%	7202545	1.01	1.04	2.9%
V	7202511	96.9	97.8	0.9%	7202521	169	182	7.4%	7202528	254	264	3.9%	7202545	151	159	5.2%
W	7202511	1.53	1.34	13.2%	7202521	0.7	0.7	0.0%	7202528	1.1	1.1	0.0%	7202545	0.62	0.67	7.8%
Y	7202511	21.7	21.5	0.9%	7202521	27.6	29.1	5.3%	7202528	20.1	20.7	2.9%	7202545	20.5	21.4	4.3%
Zn	7202511	53.0	50.4	5.0%	7202521	103	107	3.8%	7202528	90.5	99.0	9.0%	7202545	79.8	79.1	0.9%
Zr	7202511	28.0	27.4	2.2%	7202521	17.1	18.1	5.7%	7202528	43.2	43.6	0.9%	7202545	22.6	23.7	4.8%
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	7202556	0.16	0.18	11.8%	7202572	0.228	0.246	7.6%	7202586	0.26	0.23	12.2%	7202600	0.15	0.13	14.3%
Al	7202556	7.52	7.23	3.9%	7202572	6.27	5.70	9.5%	7202586	5.13	4.56	11.8%	7202600	7.43	7.69	3.4%
As	7202556	18.9	20.4	7.6%	7202572	19.2	17.8	7.6%	7202586	20.8	20.0	3.9%	7202600	6.7	5.8	14.4%
Ba	7202556	307	317	3.2%	7202572	283	263	7.3%	7202586	173	159	8.4%	7202600	466	482	3.4%
Be	7202556	0.87	0.89	2.3%	7202572	0.725	0.667	8.3%	7202586	0.62	0.57	8.4%	7202600	1.03	0.972	5.8%
Bi	7202556	0.071	0.079	10.7%	7202572	0.069	0.064	7.5%	7202586	0.07	0.07	0.0%	7202600	0.27	.20	
Ca	7202556	2.98	2.89	3.1%	7202572	2.41	2.28	5.5%	7202586	3.57	3.59	0.6%	7202600	4.12	4.17	1.2%
Cd	7202556	0.402	0.419	4.1%	7202572	0.260	0.265	1.9%	7202586	0.675	0.756	11.3%	7202600	0.108	0.104	3.8%
Ce	7202556	24.9	25.3	1.6%	7202572	30.5	28.5	6.8%	7202586	19.5	19.4	0.5%	7202600	42.6	40.7	4.6%
Co	7202556	28.7	29.3	2.1%	7202572	32.5	30.5	6.3%	7202586	29.6	27.7	6.6%	7202600	19.8	19.2	3.1%
Cr	7202556	71.6	59.6	18.3%	7202572	148	131	12.2%	7202586	103	93.2	10.0%	7202600	30.7	39.7	
Cs	7202556	1.14	1.16	1.7%	7202572	2.03	1.88	7.7%	7202586	0.94	0.94	0.0%	7202600	0.80	0.75	6.5%
Cu	7202556	81.1	87.1	7.1%	7202572	118	112	5.2%	7202586	149	149	0.0%	7202600	24.8	26.2	5.5%
Fe	7202556	5.82	5.90	1.4%	7202572	6.13	5.77	6.1%	7202586	4.58	4.01	13.3%	7202600	6.06	5.80	4.4%
Ga	7202556	17.6	17.5	0.6%	7202572	16.0	15.0	6.5%	7202586	12.1	10.2	17.0%	7202600	18.2	17.4	4.5%

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Ge	7202556	< 0.05	< 0.05	0.0%	7202572	< 0.05	< 0.05	0.0%	7202586	< 0.05	< 0.05	0.0%	7202600	< 0.05	< 0.05	0.0%
Hf	7202556	1.83	1.87	2.2%	7202572	1.5	1.5	0.0%	7202586	1.09	0.94	14.8%	7202600	1.4	1.4	0.0%
In	7202556	0.067	0.067	0.0%	7202572	0.0669	0.0603	10.4%	7202586	0.0539	0.0470	13.7%	7202600	0.0827	0.0791	4.4%
K	7202556	1.06	1.04	1.9%	7202572	0.649	0.614	5.5%	7202586	0.32	0.28	13.3%	7202600	0.90	0.89	1.1%
La	7202556	12.7	12.5	1.6%	7202572	14.0	13.4	4.4%	7202586	9.58	9.86	2.9%	7202600	21.8	21.3	2.3%
Li	7202556	11.1	11.1	0.0%	7202572	17.5	16.3	7.1%	7202586	8.7	7.8	10.9%	7202600	9.4	9.4	0.0%
Mg	7202556	2.41	2.41	0.0%	7202572	1.81	1.71	5.7%	7202586	2.02	1.74	14.9%	7202600	1.37	1.42	3.6%
Mn	7202556	1120	1120	0.0%	7202572	1870	1760	6.1%	7202586	1380	1430	3.6%	7202600	1090	1130	3.6%
Mo	7202556	1.40	1.54	9.5%	7202572	1.49	1.42	4.8%	7202586	1.45	1.49	2.7%	7202600	1.01	0.98	3.0%
Na	7202556	1.22	1.20	1.7%	7202572	0.980	0.914	7.0%	7202586	0.893	0.753	17.0%	7202600	2.04	2.10	2.9%
Nb	7202556	7.53	8.12	7.5%	7202572	9.4	8.9	5.5%	7202586	5.82	4.82	18.8%	7202600	8.3	9.6	14.5%
Ni	7202556	47.5	47.3	0.4%	7202572	70.5	65.8	6.9%	7202586	58.8	53.8	8.9%	7202600	16.8	17.1	1.8%
P	7202556	914	947	3.5%	7202572	1110	1160	4.4%	7202586	927	1010	8.6%	7202600	631	609	3.5%
Pb	7202556	8.4	8.1	3.6%	7202572	7.9	7.6	3.9%	7202586	7.9	7.3	7.9%	7202600	8.0	6.9	14.8%
Rb	7202556	25.9	26.9	3.8%	7202572	29.4	26.5	10.4%	7202586	13.7	12.3	10.8%	7202600	23.0	21.2	8.1%
Re	7202556	0.002	0.004		7202572	< 0.002	< 0.002	0.0%	7202586	< 0.002	< 0.002	0.0%	7202600	< 0.002	< 0.002	0.0%
S	7202556	0.04	0.03	28.6%	7202572	0.10	0.09	10.5%	7202586	0.11	0.12	8.7%	7202600	0.03	0.03	0.0%
Sb	7202556	0.929	0.956	2.9%	7202572	1.21	1.14	6.0%	7202586	1.05	1.06	0.9%	7202600	1.38	1.03	
Sc	7202556	27.3	27.5	0.7%	7202572	29.4	27.7	6.0%	7202586	23.4	20.6	12.7%	7202600	27.6	26.5	4.1%
Se	7202556	1.93	2.03	5.1%	7202572	2.84	2.55	10.8%	7202586	3.6	3.7	2.7%	7202600	1.5	1.5	0.0%
Sn	7202556	0.8	0.8	0.0%	7202572	0.9	0.9	0.0%	7202586	0.65	0.53	20.3%	7202600	1.15	1.04	10.0%
Sr	7202556	284	283	0.4%	7202572	223	201	10.4%	7202586	286	243	16.3%	7202600	422	398	5.9%
Ta	7202556	0.57	0.59	3.4%	7202572	0.532	0.494	7.4%	7202586	0.349	0.261	28.9%	7202600	0.52	0.61	15.9%
Te	7202556	0.25	0.17		7202572	0.08	0.05		7202586	0.09	0.09	0.0%	7202600	0.14	0.12	15.4%
Th	7202556	2.01	2.06	2.5%	7202572	1.92	1.72	11.0%	7202586	1.2	1.0	18.2%	7202600	2.70	2.63	2.6%
Ti	7202556	0.55	0.54	1.8%	7202572	0.649	0.612	5.9%	7202586	0.42	0.37	12.7%	7202600	0.49	0.49	0.0%
Tl	7202556	0.22	0.22	0.0%	7202572	0.237	0.222	6.5%	7202586	0.12	0.12	0.0%	7202600	0.121	0.128	5.6%
U	7202556	2.48	2.54	2.4%	7202572	1.49	1.38	7.7%	7202586	4.82	5.49	13.0%	7202600	1.36	1.33	2.2%
V	7202556	183	180	1.7%	7202572	192	178	7.6%	7202586	135	111	19.5%	7202600	193	197	2.1%
W	7202556	1.1	0.9	20.0%	7202572	0.6	0.6	0.0%	7202586	0.54	0.44	20.4%	7202600	1.2	1.2	0.0%
Y	7202556	20.3	20.6	1.5%	7202572	23.6	21.7	8.4%	7202586	20.1	19.3	4.1%	7202600	22.1	21.1	4.6%
Zn	7202556	98.3	95.1	3.3%	7202572	108	106	1.9%	7202586	93.5	90.7	3.0%	7202600	67.7	66.0	2.5%
Zr	7202556	60.7	60.8	0.2%	7202572	51.7	48.5	6.4%	7202586	35.7	30.1	17.0%	7202600	41.6	38.8	7.0%

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Quality Assurance - Replicate

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

	REPLICATE #9				REPLICATE #10				REPLICATE #11							
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	7202601	0.16	0.16	0.0%	7202618	0.221	0.183	18.8%	7202627	0.159	0.134	17.1%				
Al	7202601	7.38	7.57	2.5%	7202618	5.82	5.71	1.9%	7202627	7.66	7.62	0.5%				
As	7202601	5.7	2.6		7202618	1.0	4.4		7202627	0.7	1.9					
Ba	7202601	367	380	3.5%	7202618	200	193	3.6%	7202627	378	391	3.4%				
Be	7202601	0.83	0.82	1.2%	7202618	0.79	0.79	0.0%	7202627	0.88	0.94	6.6%				
Bi	7202601	0.089	0.098	9.6%	7202618	0.077	0.071	8.1%	7202627	0.15	0.16	6.5%				
Ca	7202601	3.40	3.46	1.7%	7202618	6.76	6.35	6.3%	7202627	4.15	4.23	1.9%				
Cd	7202601	0.342	0.358	4.6%	7202618	0.45	0.46	2.2%	7202627	0.10	0.10	0.0%				
Ce	7202601	31.0	30.4	2.0%	7202618	23.8	22.7	4.7%	7202627	35.9	36.2	0.8%				
Co	7202601	25.0	25.3	1.2%	7202618	32.7	33.6	2.7%	7202627	21.3	22.8	6.8%				
Cr	7202601	92.7	99.7	7.3%	7202618	100	90.8	9.6%	7202627	80.4	75.4	6.4%				
Cs	7202601	0.76	0.76	0.0%	7202618	1.08	1.08	0.0%	7202627	0.672	0.690	2.6%				
Cu	7202601	80.0	81.1	1.4%	7202618	141	150	6.2%	7202627	41.2	42.1	2.2%				
Fe	7202601	5.96	5.85	1.9%	7202618	5.98	5.74	4.1%	7202627	5.91	6.00	1.5%				
Ga	7202601	16.8	16.2	3.6%	7202618	12.6	12.9	2.4%	7202627	17.8	18.4	3.3%				
Ge	7202601	< 0.05	< 0.05	0.0%	7202618	< 0.05	< 0.05	0.0%	7202627	< 0.05	< 0.05	0.0%				
Hf	7202601	1.4	1.4	0.0%	7202618	1.3	1.2	8.0%	7202627	1.4	1.4	0.0%				
In	7202601	0.0670	0.0698	4.1%	7202618	0.147	0.135	8.5%	7202627	0.082	0.086	4.8%				
K	7202601	0.71	0.71	0.0%	7202618	0.463	0.454	2.0%	7202627	0.66	0.67	1.5%				
La	7202601	15.1	14.9	1.3%	7202618	12.9	12.5	3.1%	7202627	18.3	18.1	1.1%				
Li	7202601	9.9	9.9	0.0%	7202618	11.0	10.7	2.8%	7202627	7.9	8.6	8.5%				
Mg	7202601	1.83	1.84	0.5%	7202618	6.64	6.62	0.3%	7202627	1.63	1.68	3.0%				
Mn	7202601	1070	1090	1.9%	7202618	1520	1460	4.0%	7202627	1130	1170	3.5%				
Mo	7202601	0.79	0.73	7.9%	7202618	0.92	0.91	1.1%	7202627	1.21	1.17	3.4%				
Na	7202601	1.74	1.79	2.8%	7202618	0.94	0.90	4.3%	7202627	1.86	1.88	1.1%				
Nb	7202601	9.70	9.64	0.6%	7202618	5.56	5.37	3.5%	7202627	9.13	9.18	0.5%				
Ni	7202601	36.9	39.4	6.6%	7202618	61.5	58.6	4.8%	7202627	26.7	25.7	3.8%				
P	7202601	808	824	2.0%	7202618	872	840	3.7%	7202627	729	749	2.7%				
Pb	7202601	7.06	6.57	7.2%	7202618	4.4	4.1	7.1%	7202627	5.5	5.7	3.6%				
Rb	7202601	15.9	14.7	7.8%	7202618	19.8	19.7	0.5%	7202627	15.3	16.9	9.9%				
Re	7202601	< 0.002	< 0.002	0.0%	7202618	< 0.002	< 0.002	0.0%	7202627	< 0.002	< 0.002	0.0%				
S	7202601	0.058	0.051	12.8%	7202618	0.09	0.08	11.8%	7202627	0.03	0.03	0.0%				

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Quality Assurance - Replicate

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

Sb	7202601	0.66	0.61	7.9%	7202618	0.29	0.30	3.4%	7202627	0.562	0.591	5.0%				
Sc	7202601	27.5	27.0	1.8%	7202618	23.1	23.2	0.4%	7202627	28.9	31.4	8.3%				
Se	7202601	1.9	2.0	5.1%	7202618	1.8	2.0	10.5%	7202627	1.44	1.58	9.3%				
Sn	7202601	0.9	0.9	0.0%	7202618	1.2	1.2	0.0%	7202627	0.9	0.9	0.0%				
Sr	7202601	358	348	2.8%	7202618	305	303	0.7%	7202627	397	411	3.5%				
Ta	7202601	0.71	0.70	1.4%	7202618	0.51	0.44	14.7%	7202627	0.66	0.67	1.5%				
Te	7202601	0.23	0.13		7202618	0.08	0.10	22.2%	7202627	0.08	0.05					
Th	7202601	1.9	1.9	0.0%	7202618	2.0	2.0	0.0%	7202627	2.14	2.32	8.1%				
Ti	7202601	0.57	0.58	1.7%	7202618	0.346	0.337	2.6%	7202627	0.561	0.579	3.2%				
Tl	7202601	0.108	0.103	4.7%	7202618	0.166	0.154	7.5%	7202627	0.10	0.11	9.5%				
U	7202601	1.10	1.08	1.8%	7202618	4.22	4.02	4.9%	7202627	1.01	1.07	5.8%				
V	7202601	204	208	1.9%	7202618	120	114	5.1%	7202627	211	210	0.5%				
W	7202601	0.9	0.7	25.0%	7202618	1.94	1.99	2.5%	7202627	1.0	1.0	0.0%				
Y	7202601	20.0	19.5	2.5%	7202618	23.0	23.0	0.0%	7202627	22.4	23.6	5.2%				
Zn	7202601	144	137	5.0%	7202618	126	119	5.7%	7202627	61.8	65.5	5.8%				
Zr	7202601	42.6	41.3	3.1%	7202618	37.6	37.8	0.5%	7202627	42.0	41.9	0.2%				

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	7202511	0.010	0.009	10.5%	7202528	< 0.001	< 0.001	0.0%	7202546	< 0.001	0.003		7202561	0.003	0.003	0.0%
	REPLICATE #5				REPLICATE #6											
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Au	7202586	0.014	0.014	0.0%	7202612	< 0.001	< 0.001	0.0%								

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Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

	CRM #1 (ref.GTS-2a)				CRM #2 (ref.CDN-ME-1304)				CRM #3 (ref.GTS-2a)				CRM #4 (ref.GTS-2a)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Ag					34	37	109%	90% - 110%								
Al	6.96	7.2	103%	90% - 110%					6.96	7.07	102%	90% - 110%	6.96	6.86	98%	90% - 110%
Ba	186	182	98%	90% - 110%					186	186	100%	90% - 110%	186	181	97%	90% - 110%
Ca	4.01	3.88	97%	90% - 110%					4.01	4.07	101%	90% - 110%	4.01	3.94	98%	90% - 110%
Ce	24	24	98%	90% - 110%					24	24	99%	90% - 110%	24	23	98%	90% - 110%
Co	22.1	19.9	90%	90% - 110%					22.1	20.3	92%	90% - 110%	22.1	21	95%	90% - 110%
Cu	88.6	90.8	102%	90% - 110%	2680	2808	105%	90% - 110%	88.6	88.2	100%	90% - 110%	88.6	83.8	95%	90% - 110%
Fe	7.56	7.72	102%	90% - 110%					7.56	7.83	104%	90% - 110%	7.56	7.69	102%	90% - 110%
K	2.021	2.125	105%	90% - 110%					2.021	2.118	105%	90% - 110%	2.021	2.063	102%	90% - 110%
Mg	2.412	2.451	102%	90% - 110%					2.412	2.462	102%	90% - 110%	2.412	2.405	100%	90% - 110%
Mn	1510	1592	105%	90% - 110%					1510	1568	104%	90% - 110%	1510	1492	99%	90% - 110%
Na	0.617	0.596	97%	90% - 110%					0.617	0.614	100%	90% - 110%	0.617	0.582	94%	90% - 110%
Ni	77.1	74.7	97%	90% - 110%					77.1	76.6	99%	90% - 110%	77.1	75.3	98%	90% - 110%
P	892	856	96%	90% - 110%					892	898	101%	90% - 110%	892	842	94%	90% - 110%
Pb					2580	2641	102%	90% - 110%								
S	0.348	0.324	93%	90% - 110%					0.348	0.333	96%	90% - 110%	0.348	0.33	95%	90% - 110%
Sr	92.8	91.9	99%	90% - 110%					92.8	90.3	97%	90% - 110%	92.8	88.4	95%	90% - 110%
Zn	208	198	95%	90% - 110%	2200	2212	101%	90% - 110%	208	200	96%	90% - 110%	208	208	100%	90% - 110%
	CRM #5 (ref.CDN-ME-1304)				CRM #6 (ref.GTS-2a)				CRM #7 (ref.GTS-2a)				CRM #8 (ref.CDN-ME-1304)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Ag	34	33	98%	90% - 110%									34	34	99%	90% - 110%
Al					6.96	7.51	108%	90% - 110%	6.96	6.89	99%	90% - 110%				
Ba					186	192	103%	90% - 110%	186	188	101%	90% - 110%				
Ca					4.01	4.16	104%	90% - 110%	4.01	3.99	100%	90% - 110%				
Ce					24	25	105%	90% - 110%	24	24	100%	90% - 110%				
Co					22.1	21.6	98%	90% - 110%	22.1	21.8	99%	90% - 110%				
Cu	2680	2610	97%	90% - 110%	88.6	88	99%	90% - 110%	88.6	88	99%	90% - 110%	2680	2691	100%	90% - 110%
Fe					7.56	8.18	108%	90% - 110%	7.56	7.87	104%	90% - 110%				
K					2.021	2.175	108%	90% - 110%	2.021	2.005	99%	90% - 110%				
Mg					2.412	2.558	106%	90% - 110%	2.412	2.422	100%	90% - 110%				
Mn					1510	1545	102%	90% - 110%	1510	1522	101%	90% - 110%				

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AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

CLIENT NAME: PIONEER EXPLORATION CORPORATION

ATTENTION TO: VINCENT LI

Na					0.617	0.61	99%	90% - 110%	0.617	0.579	94%	90% - 110%				
Ni					77.1	77.7	101%	90% - 110%	77.1	75.9	98%	90% - 110%				
P					892	902	101%	90% - 110%	892	921	103%	90% - 110%				
Pb	2580	2585	100%	90% - 110%									2580	2674	104%	90% - 110%
S					0.348	0.35	101%	90% - 110%	0.348	0.337	97%	90% - 110%				
Sr					92.8	92.4	100%	90% - 110%	92.8	89.4	96%	90% - 110%				
Zn	2200	2165	98%	90% - 110%	208	213	102%	90% - 110%	208	205	99%	90% - 110%	2200	2221	101%	90% - 110%
(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)																
	CRM #1 (ref.GS6D)				CRM #2 (ref.GS6D)				CRM #3 (ref.GSP7K)				CRM #4 (ref.GSP4C)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Au	6.09	5.83	96%	90% - 110%	6.09	5.6	92%	90% - 110%	0.694	0.695	100%	90% - 110%	0.362	0.339	94%	90% - 110%
	CRM #5 (ref.1P5L)				CRM #6 (ref.GSP4C)				CRM #7 (ref.GSP7K)				CRM #8 (ref.GS6D)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Au	1.53	1.54	101%	90% - 110%	0.362	0.341	94%	90% - 110%	0.694	0.735	106%	90% - 110%	6.09	5.96	98%	90% - 110%

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Method Summary

CLIENT NAME: PIONEER EXPLORATION CORPORATION

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

ATTENTION TO: VINCENT LI

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Ag	MIN-200-12020		ICP-MS
Al	MIN-200-12020		ICP/OES
As	MIN-200-12020		ICP-MS
Ba	MIN-200-12020		ICP-MS
Be	MIN-200-12020		ICP-MS
Bi	MIN-200-12020		ICP-MS
Ca	MIN-200-12020		ICP/OES
Cd	MIN-200-12020		ICP-MS
Ce	MIN-200-12020		ICP-MS
Co	MIN-200-12020		ICP-MS
Cr	MIN-200-12020		ICP/OES
Cs	MIN-200-12020		ICP-MS
Cu	MIN-200-12020		ICP-MS
Fe	MIN-200-12020		ICP/OES
Ga	MIN-200-12020		ICP-MS
Ge	MIN-200-12020		ICP-MS
Hf	MIN-200-12020		ICP-MS
In	MIN-200-12020		ICP-MS
K	MIN-200-12020		ICP/OES
La	MIN-200-12020		ICP-MS
Li	MIN-200-12020		ICP-MS
Mg	MIN-200-12020		ICP/OES
Mn	MIN-200-12020		ICP/OES
Mo	MIN-200-12020		ICP-MS
Na	MIN-200-12020		ICP/OES
Nb	MIN-200-12020		ICP-MS
Ni	MIN-200-12020		ICP-MS
P	MIN-200-12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
Re	MIN-200-12020		ICP-MS
S	MIN-200-12020		ICP/OES
Sb	MIN-200-12020		ICP-MS
Sc	MIN-200-12020		ICP-MS
Se	MIN-200-12020		ICP-MS
Sn	MIN-200-12020		ICP-MS
Sr	MIN-200-12020		ICP-MS
Ta	MIN-200-12020		ICP-MS
Te	MIN-200-12020		ICP-MS
Th	MIN-200-12020		ICP-MS
Ti	MIN-200-12020		ICP/OES
Tl	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
V	MIN-200-12020		ICP/OES
W	MIN-200-12020		ICP-MS
Y	MIN-200-12020		ICP-MS
Zn	MIN-200-12020		ICP-MS
Zr	MIN-200-12020		ICP-MS
Sample Login Weight	MIN-12009		BALANCE

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Method Summary

CLIENT NAME: PIONEER EXPLORATION CORPORATION

AGAT WORK ORDER: 15D043372

PROJECT: Pacific Copper East

ATTENTION TO: VINCENT LI

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES

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Chain of Custody Record • Mining

Laboratory Use Only

Arrival Condition: ☑ Good ☐ Poor *(complete notes)*
AGAT WO#: 15D 042828
Received: Nov 16/15 9:30am
Notes: Greyhound Delivery

Report To

Company: Pioneer Exploration Corporation
Contact: Vincent Li
Address: 1450 - 1155 West Hastings Street
Vancouver BC V6E 3T5
Phone: 604-336-7666 Fax: 604-425-0776
AGAT Quote #: 48108NM
Client Project #: Pacific Copper East

Report Information

Name: Vincent Li
Email: vincent.li@dehua.ca

Analysis Authorization

Name: Jacques Houle
Email: jhoule06@shaw.ca

Report Format

☐ Single Package per page
☑ Multiple Packages per page
☑ Excel Format Included

Turnaround Time Required (TAT)

☑ **Regular TAT** ☐ **Rush TAT**
Rush surcharges may apply

Invoice To

Same Yes ☑ / No ☐

Company:
Contact:
Address:
Phone: Fax:
PO#:

Material Matter

☐ Drill Core ☐ Pulp
☑ Rock ☐ Water
☐ Till/Soil/Silt ☐ Other *(specify below)*
☐ Concentrate

Grade ☑ Trace ☐ Ore

Sample Preparation

☐ No Prep Required - Run as Received
☑ AGAT Sample Prep Code *(specify below)*
226-001
☑ Other weigh samples

Sample Sequence Number From	To	Quantity	202-052	201-071	201-072 (if required)	201-249
E5123684		1	✓	✓	✓	
E5124263	E5124265	3	✓	✓	✓	✓
E5124785	E5124786	2	✓	✓	✓	✓
Total	Samples	6				

(AGAT Analysis Method)

Sample Storage

(Pulp and Reject Material Handling Upon Analysis Completion)

☐ Return to Client
☑ Discard Material
☐ Store Reject for 60 days *(and return to client)*
☐ Store Pulp for 90 days *(and return to client)*
☐ Store beyond 60/90 days *(Storage fees apply)*

Courier
Greyhound
Print Name

Nov 16/15 Page 1 of 1
Date

Samples Relinquished by (print name & sign): Jacques Houle — Date/Time: 11-November-2015
Samples Received by (print name & sign): Shanlee Edwards — Date/Time: Nov 16/15 9:30am

Special Instruction

Document ID: MIN-208-1503.007

Date Revised: May 18, 2015

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Chain of Custody Record • Mining

Laboratory Use Only
Arrival Condition: ☑ Good ☐ Poor *(complete notes)*
AGAT WO#: 15D 043372
Received: Nov 16/15 9:30am
Notes:

Report To
Company: Pioneer Exploration Corporation
Contact: Vincent Li
Address: 1450 - 1155 West Hastings Street
Vancouver BC V6E 3T5
Phone: 604-336-7666 Fax: 604-425-0776
AGAT Quote #: 48108NM
Client Project #: Pacific Copper East

Report Information
Name: Vincent Li
Email: vincent.li@dehua.ca

Analysis Authorization
Name: Jacques Houle
Email: jhoule06@shaw.ca

Report Format
☐ Single Package per page
☑ Multiple Packages per page
☑ Excel Format Included

Turnaround Time Required (TAT)
☑ **Regular TAT** ☐ **Rush TAT**
Rush surcharges may apply

Material Matter
☐ Drill Core ☐ Pulp
☐ Rock ☐ Water
☐ Till/Soil/Silt ☑ Other *(specify below)*
☐ Concentrate stream moss mats

Grade ☑ Trace ☐ Ore

Sample Preparation
☐ No Prep Required - Run as Received
☑ AGAT Sample Prep Code *(specify below)*
226-012 after drying and removing organics
☑ Other weigh samples after removing organics

Sample Storage
(Pulp and Reject Material Handling Upon Analysis Completion)
☐ Return to Client
☑ Discard Material
☐ Store Reject for 60 days (and return to client)
☐ Store Pulp for 90 days (and return to client)
☐ Store beyond 60/90 days (Storage fees apply)

Courier
Greyhound
Print Name
Page 1 of 1
Date

Invoice To Same Yes ☑ / No ☐
Company:
Contact:
Address:
Phone: Fax:
PO#:

Sample Sequence Number		Quantity	AGAT Analysis Method																	
From	To		202-052	201-071	201-072 (if required)															
E5123557	E5123559	3	✓	✓	✓															
E5124010	E5124025	16	✓	✓	✓															
E5124149	E5124187	39	✓	✓	✓															
E5124427	E5124457	31	✓	✓	✓															
E5124510	E5124536	27	✓	✓	✓															
E5124759		1																		
Total	Samples	117																		

Jacques Houle — 11-Nov-2015
Shaulee Edwards — Nov 16/15 9:30am

Special Instruction

AGAT Laboratories

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Chain of Custody Record • Mining

Laboratory Use Only

Arrival Condition: ☑ Good ☐ Poor *(complete notes)*
AGAT WO#: 15D047901
Received: Nov 30/15 10am
Notes:

Report To

Company: Pioneer Exploration Corporation
Contact: Vincent Li
Address: 1450 - 1155 West Hastings Street
Vancouver BC V6E 3T5
Phone: 604-336-7666 Fax: 604-425-0776
AGAT Quote #: 48108NM
Client Project #: Pacific Iron

Report Information

Name: Vincent Li
Email: vincent.li@dehua.ca

Analysis Authorization

Name: Jacques Houle
Email: jhoule06@shaw.ca

Report Format

☐ Single Package per page
☑ Multiple Packages per page
☑ Excel Format Included

Turnaround Time Required (TAT)

☑ **Regular TAT** ☐ **Rush TAT**
Rush surcharges may apply

Invoice To Same Yes ☑ / No ☐

Company:
Contact:
Address:
Phone: Fax:
PO#:

Material Matter

☐ Drill Core ☐ Pulp
☑ Rock ☐ Water
☐ Till/Soil/Silt ☐ Other *(specify below)*
☐ Concentrate

Grade ☑ Trace ☑ Ore

Sample Preparation

☐ No Prep Required - Run as Received
☑ AGAT Sample Prep Code *(specify below)*
226-001
☑ Other weigh samples

Sample Sequence Number From	Sample Sequence Number To	Quantity	202-052	201-071	201-072 (if required)	201-249
E5123624	E512~~4~~3625	2	✓	✓	✓	✓
Total	Samples	2				

Sample Storage
(Pulp and Reject Material Handling Upon Analysis Completion)

☑ Return to Client
☐ Discard Material
☐ Store Reject for 60 days (and return to client)
☐ Store Pulp for 90 days (and return to client)
☐ Store beyond 60/90 days (Storage fees apply)

Samples Relinquished by (print name & sign): Jacques Houle
Date/Time: 25-November-2015

Samples Received by (print name & sign): Sharlee Edwards
Date/Time: Nov 30/15

Special Instruction

please note sample ID on 2nd sample.

Courier

Greyhound
Print Name
Date

Page 1 of 1

Document ID: MIN-00-1512.207
Date Revised: May 16, 2012

Appendix 2

Mineral Tenure Data

Bugaboo-Reko Iron Property 2015 Assessment Cost Statement

Exploration Work type	Comment	Days			Totals
Personnel (Name)* / Position	**Field Days (list actual days)**	**Days**	**Rate**	**Subtotal***	
Jacques Houle - Project manager	November 2-10, November 13, 2015	9.5	$808.50	$7,680.75	
Ron Bilquist - Prospector	November 2-10, 2015	8.5	$462.00	$3,927.00	
Marie Brannstrom - Geologist	November 2-10, 2015	8.5	$404.25	$3,436.13	
Cody Broda - Geologist	November 2-10, November 13, 2015	9.5	$288.75	$2,743.13	
				$17,787.00	**$17,787.00**
Office Studies	**List Personnel (note - Office only, do not include field days**				
Literature search	Jacques Houle - Project manager	2.65	$808.50	$2,142.53	
Report preparation	Jacques Houle - Project manager	6.29	$808.50	$5,085.47	
				$7,227.99	**$7,227.99**
Geochemical Surveying	**Number of Samples**	**No.**	**Rate**	**Subtotal**	
Stream moss mats	AGAT Labs Work Order 15D043372	117	$34.13	$3,993.24	
Rock	AGAT Labs Work Order 15D042828	6	$116.46	$698.75	
Rock	AGAT Labs Work Order 15D047901	2	$127.28	$254.56	
				$4,946.56	**$4,946.56**
Transportation		**No.**	**Rate**	**Subtotal**	
truck rental - Houle	November 2-10, November 13, 2015	4.1	$404.25	$1,637.21	
truck rental - Broda	November 2 and 10, 2015	0.3	$404.25	$121.28	
Ferries - Bilquist & Brannstrom	November 2 and 10, 2015			$26.74	
				$1,785.23	**$1,785.23**
Accommodation & Food	**Rates per day**				
Accommodation/Meals Cowichan	November 2-10, 2015 for 4 people	36.0	$138.60	$4,989.60	
Meals Lake Cowichan, Pt.Renfrew	November 13, 2015 for 2 people	1.0	$69.30	$69.30	
				$5,058.90	**$5,058.90**
Equipment Rentals					
Field Gear - Houle	Field equipment, tools, communications, supplies, etc.			$780.20	
				$780.20	**$780.20**
Freight, rock samples					
Greyhound shipping Nanaimo to Terrace		125	$1.62	$202.75	
				$202.75	**$202.75**
TOTAL Expenditures					**$37,788.63**