

PRELIMINARY REPORT ON DIAMOND DRILL HOLES PL-01 and PL-02

Separation Property

-Paterson Lake Area (G.2634)-

Kenora Mining Division -10- Ontario

Prepared for

MEGA GRAPHITE Inc.

Suite "A" – 86 Wilson Street

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2. 4925X

Prepared by:

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Kenora, Ontario P9N 3S1

August 21, 2011

MEGA GRAPHITE Inc.

-Separation Property

PRELIMINARY REPORT ON DIAMOND DRILL HOLES PL-01 and PL-02

Separation Property

-Paterson Lake Area (G.2634)-

Kenora Mining Division -10- Ontario

Project/Property: Separation/Paterson/Big Mack

Claim Property Ownership: Mega Graphite Inc. (client #408407) – 100%

Mineral Commodities: Petalite (Li), Rare Earth Metals (Ta), Rare Earth Elements

Mining Claim Surveyed: Mining claim lease CLM 428

Type of Survey: Geological logging and assaying of two diamond drill holes PL-01 and PL-02

Assessment Work Distribution: Claim #1220417, 1220418, 1220424, 1220425 and 1233597

Date of Survey: September 12, 2006 to August 21, 2011

INTRODUCTION

Mega Graphite Inc. acquired the property from Pacific Iron ore Corporation (Emerald Fields Resource Corporation) on June 21, 2010. The property is located in the Separation Rapids area of Northwestern Ontario, Kenora Mining Division – 10 hosting the “Big Mack” petalite bearing pegmatite discovered in 1997. During 1997 and early 2000, other pegmatite dykes were identified mineralized with Li, Ta and Sn-Ta-Nb. Other pegmatite dykes have been noted further to the north but have not received any exploration attention. Mega Graphite’s intent is as follows:

- 1/. Expand on the Li content of the Big Mack and Zone Eleven;
- 2/. Drill test other previously discovered petalite (Li) dykes and other dykes bearing Ta+/-Sn+/-Nb, and
- 3/. Evaluate the claim group for Rare Earth Elements (REE) including their Treelined/Trout Lake graphite deposit lying to the east.

LOCATION and ACCESS

The property is located about 75 km north of Kenora, Ontario. Access to the property is by road Hwy#658 north from Kenora to Reddit and north on the English River gravel road to kilometre signed 65. Turning west on the Sand Lake logging road for about 5.2 km to the Mine Road and north for

approximately 12 km. Unfortunately, the Mine Road section was decommissioned last Fall 2010 leaving access to 4x4 bike quad transport.

REGIONAL GEOLOGY

This Separation Rapids property is closely associated with the Archean Separation Lake Greenstone Belt comprised of metavolcanic and metasedimentary rocks. This Belt is equated with Manitoba's Bird River System to the west. This suite of rocks is part of the Superior Province which constitutes the boundary zone between the north lying metasedimentary English River Subprovince and the south granite dominated Winnipeg River Subprovince.

The Bird River Belt is host to TANCO's Ta and Cs producing mine at Bernic Lake. The Separation Lake Belt is host to the Big Mack, Avalon's Big Whopper and Champion Bear's Marko's petalite pegmatites.

Intrusive granite, granite-pegmatite, pegmatite and aplite invade all of the lithologies exhibiting a wide degree of mineralogy and textural fabric. All unites have been metamorphosed to middle to upper amphibolite grade.

Although not studied in great detail, structure does play an important role in the control and deposit development of the petalite bearing pegmatites; i.e., refolding/accordion affect increasing size.

PROPERTY GEOLOGY

Surface discoveries to date are the Big Mack and Zone Eleven just to the northwest. Other petalite bearing dykes; such as, the Glitter and Spinkler Zones have been exposed and surface sampled but not drill tested. Attached is a copy of the property's Lithologic Legend after Prysak and Chastko, 2001.

SURVEY

Two drill holes PL-01 and PL-02 were recovered from the camp and core storage area on claim CLM 428. (The camp and core have been vandalized with core dumped from the racks and core removed from various core boxes.) These two holes represent a cross-section of the Big Mack from north to south starting in mafic metavolcanics and finishing in the same. The UTM co-ordinates for both holes are as follows (NAD 83 Zone 15): PL-0: 5569787mN; 386542mE; drill azimuth 180 degrees @ -45 degrees south. PL-02: 5569771mN; 386542mE; drill azimuth 180 degrees @ -45 degrees south. PL-02 is about 16m south of PL-01. In relation to corner survey pin (refer figure: SEP-3), the drill collars are 112m east and 25 and 41m respectively north.

Transport of the core was by a combination of quad to truck. The truck was parked just north on the Mine Road off the Sand Lake Road. The boxes were transported back to Kenora where they were logged, sampled and shipped to Actlabs, subsidiary Dryden, Ontario office for preparation. The 50 samples (33 from PL-01 and 17 from PL-02) were sent to Ancaster, Ontario for analyses. The chemistry packages consist of Li assay and sodium peroxide fusion; REE; B; Br; F. The elevated Ga is being presently scoped as another possible value added recoverable commodity. A detail report of findings to follow.



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Drill Log Journal de forage

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Under section 8 of the Mining Act, this information is used to maintain a public record. / Aux termes de l'article 8 de la Loi sur les mines, ces renseignements serviront à tenir à jour les dossiers publics.

Hole ID / Forage n°	Claim No. / N° de concession minière	Township/Area / Canton
PL-01	CLM-428	Paterson Lake (G-2634)

Name of Land Holder / No. de propriétair(e) / Nom du titulaire	Azimuth 180 °	Dip / Inclinaison 45 °	End of Hole (m) / fin de forage (m) 30.64m	Overburden Depth / profondeur des morts-terrains 0.00
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Drilling Company / Compagnie de forage	Logged by (print) / Inscrit par (écrire en lettres moulées)	Core Size / Dimensions de la carotte	Collar Elevation / Elévation du collier +/- 360.0m
Emerald Fields Resource Corporation Kenora, Ontario	A.J.M. Mowat, C.E.T.	AW 35.1mm	

Date Hole Started (yyyy/mm/dd) / Date de commencement du forage (aaaa/mm/jj)	Date Completed (yyyy/mm/dd) / Date d'achèvement (aaaa/mm/jj)	Date Logged (yyyy/mm/dd) / Date d'inscription au journal (aaaa/mm/jj)	Location of Core Storage / Endroit où la carotte est stockée
2006-09-14	2006-09-17	2011-06-21	N/A (Refer rpt. #A11-5670)

Footage/Avancement		Rock type / type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) / Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle * / Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No./ N° d'echantillon du prospecteur	DRILL HOLE COLLAR LOCATION CO-ORDINATES / COORDONNÉES DU COLLIER DE TROU DE FORAGE		Sample Length / Longueur de l'échantillon	Assays / Analyses minéralurgiques
From/De	To/À						From/De	To/À		
0.00	0.50m	1a,b	Mafic metavolcanics flows & pillows; amphibolite; med. green; med. gr. bio; .			57801	0.00	0.50 m	0.50 mV	
0.50	0.82	1a,b,8c	As above + 50% petalite pegmatite, white, c. gr.; peta, K-spar, bio, mus; fol. @	20 ca		57802	0.50	0.82	0.32 mV+P	
0.82	1.82	8c	Petalite Pegmatite - section missing			57803	0.82	1.82	0.00*	N/A
1.82	2.82	8c	Petalite Pegmatite with 2 % <= 2mm garnet			57804	1.82	2.82	1.00	
2.82	3.82	8c	Petalite Pegmatite; foliation @	45 ca		57805	2.82	3.82	1.00	
3.82	4.82	8c	as above			57806	3.82	4.82	1.00	
4.82	5.82	8c	as above			57807	4.82	5.82	1.00	
5.82	6.82	8c	as above			57808	5.82	6.82	1.00	
6.82	7.82	8c	as above			57809	6.82	7.82	1.00	
7.82	8.82	8c	as above			57810	7.82	8.82	1.00	
8.82	9.80	8c	as above			57811	8.82	9.80	0.98	

*For features such as foliation, bedding, schistosity, measured from the long axis of the core. / *Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

"Mining Lands Website: http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp

"Site Web de la Section des terrains miniers : http://www.mndm.gov.on.ca/mndm/mines/lands/default_f.asp"



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Footage/Avancement		Rock type / type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) / Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle * / Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No./ N° d'e hantillon du prospecteur	Sample Footage / Niveau de prélèvement de l'échantillon (en pieds)		Sample Length / Longueur de l'échantillon	Assays / Analyses minéralurgiques
From/De	To/À						From/De	To/À		
9.80	10.80	1a,b	Mafic metavolcanic flows & pillows as above with glimmerite; top contact @	30 ca		57812	9.80	10.80	1.00 mV	
10.80	11.80	1a,b	Mafic metavolcanic; amph.,chloritic, with <= 4mm bands of homquistite @	30 ca		57813	10.80	11.80	1.00 mV	
11.80	12.28	1a,b	as above			57814	11.80	12.28	0.48	
12.28	12.72	8c, 1a,b	Petalite Pegmatite; @ 12.55 m 30mm mafic inclusion			57815	12.28	12.72	0.44	
12.72	13.72	8c	Petalite Pegmatite			57816	12.72	13.72	1.00	
13.72	14.72	8c	as above			57817	13.72	14.72	1.00	
14.72	15.60	8c	as above			57818	14.72	15.60	0.88	
15.60	15.96	1a,b	Mafic metavolcanic; top & bottom contact @	60/45 ca		57819	15.60	15.96	0.36 mV	
15.96	16.96	8c	Petalite Pegmatite			57820	15.96	16.96	1.00	
16.96	17.96	8c	as above			57821	16.96	17.96	1.00	
17.96	18.96	8c	as above			57822	17.96	18.96	1.00	
18.96	19.96	8c	as above			57823	18.96	19.96	1.00	
19.96	20.96	8c	as above			57824	19.96	20.96	1.00	
20.96	21.96	8c	as above			57825	20.96	21.96	1.00	
21.96	22.96	8c	as above; @ 22.44-22.96m aplite (marble appearance)			57826	21.96	22.96	1.00	
22.96	23.96	8c	Petalite Pegmatite			57827	22.96	23.96	1.00	
23.96	24.96	8c	as above; missing 0.69m ground core between 24.27 to 24.96 m			57828	23.96	24.96	0.31*	
24.96	25.96	8c	Petalite Pegmatite			57829	24.96	25.96	1.00	
25.96	26.96	8c	as above			57830	25.96	26.96	1.00	
26.96	27.96	8c	as above			57831	26.96	27.96	1.00	
27.96	28.96	8c	as above			57832	27.96	28.96	1.00	
28.96	29.96	8c	as above			57833	28.96	29.96	1.00	
29.96	30.64	8c	as above			57834	29.96	30.64	0.68	
30.64			End of Hole (E.O.H.)							

*For features such as foliation, bedding, schistosity, measured from the long axis of the core. / *Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

"Mining Lands Website: http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp"

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Hole ID / Forage n°	Claim No. / N° de concession minière	Township/Area / Canton
PL-02	CLM-428	Paterson Lake (G-2634)

Name of Land Holder / No. de propriétair(e)	Azimuth 180 °	Dip / Inclinaison 45 °	End of Hole (m) / fin de forage (m) 33.64m	Overburden Depth / profondeur des morts-terrains 0.00
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Emerald Fields Resource Corporation Kenora, Ontario	A.J.M. Mowat, C.E.T.	AW 35.1mm	

Date Hole Started (yyyy/mm/dd) / Date de commencement du forage (aaaa/mm/jj)	Date Completed (yyyy/mm/dd) / Date d'achèvement (aaaa/mm/jj)	Date Logged (yyyy/mm/dd) / Date d'inscription au journal (aaaa/mm/jj)	Location of Core Storage / Endroit où la carotte est stockée
2006-09-17	2006-09-19	2011-06-29	N/A (Refer rpt.#A11-6059)

DRILL HOLE COLLAR LOCATION CO-ORDINATES / COORDONNÉES DU COLLIER DE TROU DE FORAGE	
<u>UTM / MTU</u>	<u>Latitude / Longitude</u>
Datum: <input type="checkbox"/> NAD 27 <input checked="" type="checkbox"/> NAD 83	degrees/minutes/seconds or decimal values degrés/minutes/secondes ou valeurs décimales
Zone: <input checked="" type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18	Datum: <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83
Northing / Ordonnée: 5569771	Latitude:
Easting / Abscisse: 386542	Longitude:

Footage/Avancement	Rock type / type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) / Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle * / Angle des caractéristiques planes	Core Specimen Footage / Longueur en pieds des carottes prélevées	Your Sample No./ N° d'echantillon du prospecteur	Sample Footage / Niveau de prélèvement de l'échantillon (en pieds)	Sample Length / Longueur de l'échantillon	Assays / Analyses minéralurgiques
						From/De	To/À	
0.00	6.03m	8c	Petalite Pegamatite (refer ddh EFR-PL-01) core missing			0.00	6.03m	(6.03)*
6.03	7.00	8c	Petalite Pegmatite		57835	6.03	7.00	0.97
7.00	7.82	8c	as above		57836	7.00	7.82	0.82
7.82	8.20	1a,b	Mafic metavolcanic; med. gn; f. gr.; homquistie, glimmerite; foli & contact @	45 ca	57837	7.82	8.20	0.38 mV
8.20	9.00	8c	Petalite Pegmatite: foliation @	45 ca	57838	8.20	9.00	0.80
9.00	10.00	8c	as above		57839	9.00	10.00	1.00
10.00	11.00	8c	as above		57840	10.00	11.00	1.00
11.00	12.00	8c	as above		57841	11.00	12.00	1.00
12.00	13.00	8c	as above		57842	12.00	13.00	1.00
13.00	13.24	8c	as above, bottom contact @	50 ca	57843	13.00	13.24	0.24
13.24	13.39	1a,b	Mafic metavolcanic; med gn; f. gr., chloritic + biotitic; bottom contact @	45 ca	57844	13.24	13.39	0.15 mV

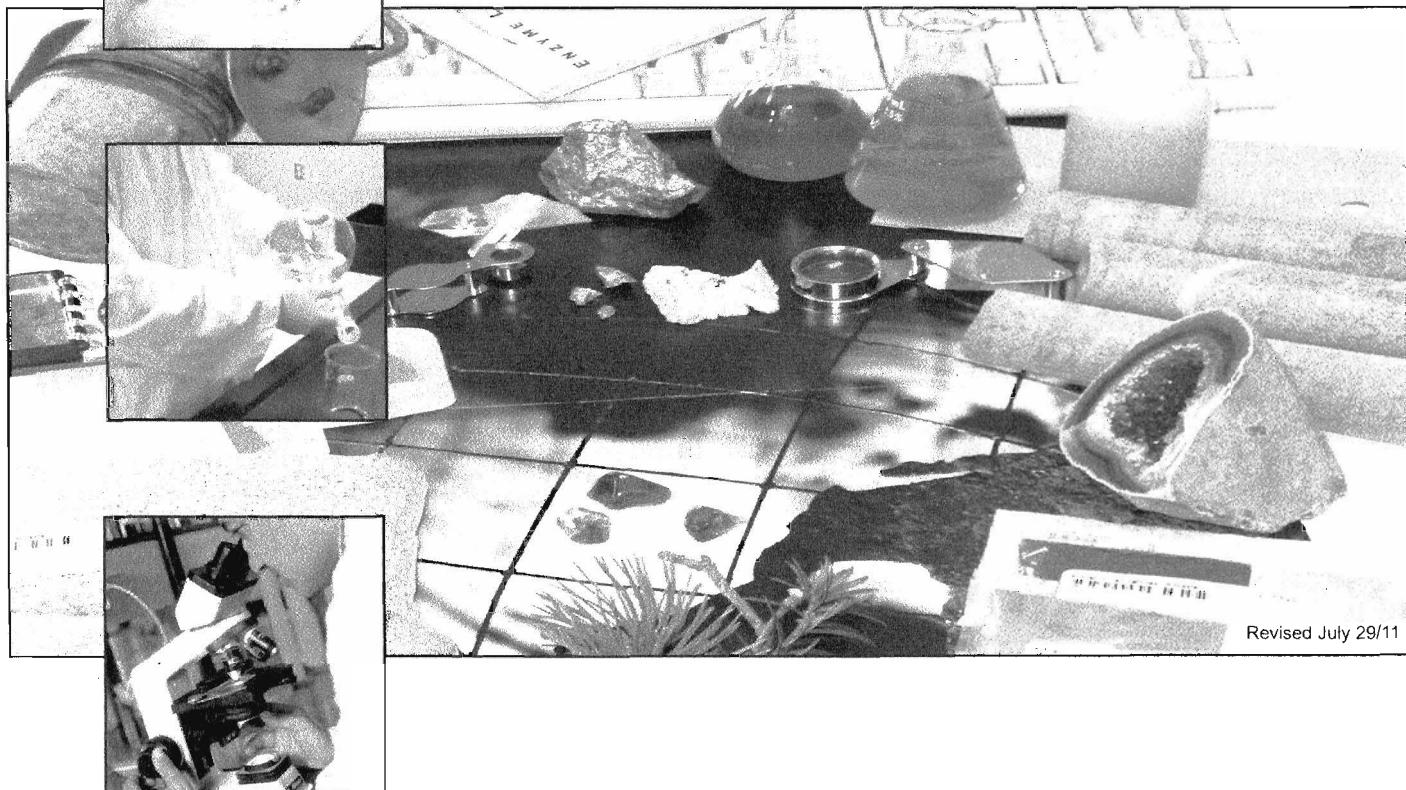
*For features such as foliation, bedding, schistosity, measured from the long axis of the core. / *Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

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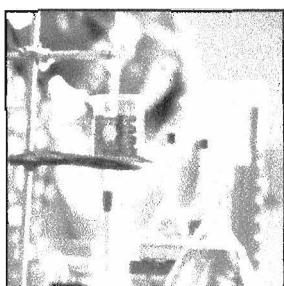


Actlabs Group of Companies



Revised July 29/11

2011 Canadian Schedule of Services and Fees



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Sample Preparation

To obtain meaningful analytical results, it is imperative that sample collection and preparation be done properly. ACTLABS can advise on sampling protocol for your field program if requested. Once the samples arrive in the laboratory, ACTLABS will ensure that they are prepared properly. As a routine practice with rock and core, the entire sample is crushed to a nominal minus 10 mesh (1.7 mm), mechanically split (riffle) to obtain a representative sample and then pulverized to at least 95% minus 150 mesh (105 microns). All of our steel mills are now mild steel and do not induce Cr or Ni contamination.

As a routine practice, we **will automatically use cleaner sand between each sample at no cost to the customer**. Quality of crushing and pulverization is routinely checked as part of our quality assurance program. Randomization of samples in larger orders (>100) provides an excellent means to monitor data for systematic errors. The data is resorted after analysis according to sample number. Please request **Code Random (additional \$1.25/sample)** if you prefer randomization.

Samples submitted in an unorganized fashion will be subject to a sorting surcharge and may substantially slow turnaround time. Providing an accurate detailed sample list by e-mail will also aid in improving turnaround time and for Quality Control purposes. Additional charges may apply for poorly organized batches. **Code CP2** - Sample list not provided for orders over 25 samples (\$0.30/sample); **Code CP3** - Sorting chaotic shipments (\$0.55/sample).

Rock, Core and Drill Cuttings

code RX1	crush (< 5 kg) up to 90% passing 2 mm, split (250 g) and pulverize (hardened steel) to 95% passing 105µ	\$9.50
code RX1+500	500 grams pulverized	add \$2.00
code RX1+800	800 grams pulverized	add \$3.50
code RX1+1.3	1.3 kg pulverized	add \$5.00
code RX2	crush (< 5 kg), split and pulverize with mild steel (100 g) (best for low contamination)	\$9.00
code RX3	oversize charge per kilogram for crushing	\$2.00
code RX4	pulverization only (mild steel) (coarse pulp or crushed rock) (< 800 g)	\$6.50
code RX5	pulverize ceramic (100 g)	\$15.50
code RX6	hand pulverize small samples (agate mortar & pestle)	\$15.50
code RX7	crush and split (< 5 kg)	\$4.50
code RX8	sample prep only surcharge, no analyses	\$3.50
code RX9	compositing (per composite) dry weight	\$2.25
code RX10	dry drill cuttings in plastic bags	\$2.00
code RX11	checking quality of pulps or rejects prepared by other labs and issuing report	\$8.25

Note: Larger sample sizes than listed above can be pulverized at additional cost.

Soils, Stream and Lake Bottom Sediments

code S1	drying (60°C) and sieving (-80 mesh) save all portions	\$3.50
code S1 DIS	drying (60°C) and sieving (-80 mesh), discard oversize	\$3.00
code S1-230	drying (60°C) and sieving (-230 mesh), save oversize	\$4.75
code S1-230 DIS	drying (60°C) and sieving (-230 mesh), discard oversize	\$4.50
code S2	lake bottom sediment preparation crush & sieve (-80 mesh)	\$7.25
code S3	alternate size fractions and bracket sieving, add	\$2.25
code S4	Enzyme Leach sm or SGH drying (40°C) & sieving (-60 mesh)	\$4.00
code S5	wet or damp samples submitted in plastic bags, add	\$1.75
code S6	separating -2 micron material	\$71.50
code S7	methylene iodide heavy mineral separation specific gravity of 3.3 (250 grams)	\$55.00
code S8	sieve analysis (4 sieve sizes)	\$35.00

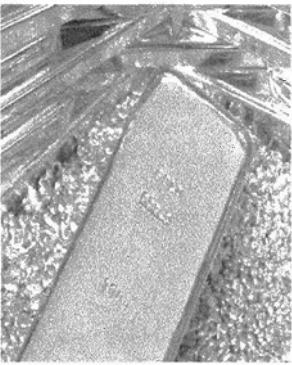
Sample Storage and Disposal

All soil, sediment and vegetation coming from outside Canada require incineration prior to disposal under CFIA regulations. All pulps and rejects will be returned to the client at cost. Disposal costs are additional. Pulps and rejects will incur a storage fee after the free period listed below.

RTRN	Return of all reject portions and/or pulps	At cost
INCIN	Incineration of soil, sediment and vegetation samples from outside Canada (for samples up to 0.5 kg; samples over 0.5 kg will have higher incineration costs)	\$0.30
H&R	Handling and retrieval of stored pulps and core	\$55.00/hour to end of rock core and drill cuttings sample storage & disposal
DISP	Disposal of pulps and reject to landfill site	\$0.20
STORE 1	Monthly storage of reject after 60 days	\$0.25
STORE 2	Monthly storage of pulps after 90 days	\$0.10
STORE 3	Monthly storage of sieve rejects after 3 months	\$0.15

Assay Products

Code 8 - Assay Products



Assays provide quantitative determinations of elements in non-processed geological materials. Assays are usually required only when the client knows or suspects higher levels of metals in samples. Geochemical methods generally provide lower detection limits than assays. For lower levels, geochemical methods should be used. All assays are traceable to international reference standards. Prices listed in our fee schedule are for normal geologic materials and are not for metallurgical products. Metallurgical products such as heads and concentrates are handled separately to prevent contamination in the laboratory. These materials are charged at five times the prices listed in our fee schedule.

Element	Price	Element	Price
Alumina - Al_2O_3	\$22.00	Magnesium (oxide) - MgO	\$22.00
Antimony - Sb	\$22.00	Moisture - H_2O	\$11.00
Arsenic - As	\$22.00	Molybdenum (total) - Mo	\$11.00
Barium (Instrumental) - Ba	\$22.00	Molybdenum (oxide)	\$22.00
Barium (Gravimetric) - Ba	\$33.00	Molybdenum (sulfide)	\$22.00
Beryllium - Be	\$27.50	Nickel - Ni	\$11.00
Bismuth - Bi	\$22.00	Nickel - Ni Sulphide	\$22.00
Boron - B	\$27.50	Niobium - Nb	\$22.00
Bromine - Br	\$22.00	Phosphorous (oxide) - P_2O_5	\$22.00
Cadmium - Cd	\$20.00	Platinum-Palladium-Gold (Pt-Pd-Au)	\$44.00
Calcium (oxide) - CaO	\$22.00	Potassium (oxide) - K_2O	\$22.00
Cerium - Ce	\$22.00	Rhenium - Re (Mo concentrates)	\$42.00
Chlorine - Cl	\$27.50	Rhodium - Rh	See Code 1C-Rh
Chromium - Cr	\$22.00	Selenium - Se	\$22.00
Cobalt - Co	\$11.00	Silicon (oxide) - SiO_2	\$22.00
Copper (total) - Cu	\$11.00	Silver - Ag	\$15.50
Copper (CN soluble)	\$12.25	Sodium (oxide) - Na_2O	\$22.00
Copper (Acid soluble)	\$11.00	Specific Gravity - S.G.	\$24.50
Copper (Ferric sulfate soluble)	\$12.25	Strontium - Sr	\$16.50
Copper (Sequential Oxide Analysis)	\$33.00	Sulfur (Infrared)	\$27.50
Fluorine - F	\$27.50	Sulfur (Gravimetric) - S	\$27.50
Gold - Au	See Code 1A3	Sulfate - SO_4	\$22.00
Gold-Silver (Au-Ag)	See Code 1A3-Ag	Tantalum - Ta	\$22.00
Gallium - Ga	\$27.50	Tellurium - Te	\$22.00
Germanium - Ge	\$38.50	Thallium - Tl	\$22.00
Insolubles	\$20.00	Thorium - Th	\$22.00
Iron (oxide) - Fe_2O_3	\$16.50	Tin - Sn	\$22.00
Lanthanum - La	\$16.50	Titanium (oxide) - TiO_2	\$22.00
Lead (total) - Pb	\$11.00	Tungsten (oxide) - WO_3	\$22.00
Lead (oxide) - PbO	\$22.00	Uranium (oxide) - U_3O_8	\$22.00
Lithium - Li	\$22.00	Vanadium (oxide) - V_2O_5	\$22.00
Loss on ignition - LOI	\$10.00	Zinc (total) - Zn	\$11.00
Mercury - Hg	\$22.00	Zinc (oxide) - ZnO	\$22.00
Manganese (oxide) - MnO	\$22.00		

Code 8 - AR ICP - Assay package for base metals, aqua regia digestion

						Price
Copper - Cu	Lead - Pb	Zinc - Zn	Cadmium - Cd	Iron - Fe	Manganese - Mn	One element \$11.00
Cobalt - Co	Nickel - Ni	Silver - Ag	Mercury - Hg			Each additional \$3.50

Code 8 - 4 Acid ICP - Assay package for base metals, 4 acid digestion

						Price
Copper - Cu	Lead - Pb	Zinc - Zn	Manganese - Mn	Lithium - Li	Iron - Fe	One element \$14.50
Cobalt - Co	Nickel - Ni	Silver - Ag	Molybdenum - Mo	Cadmium - Cd		Each additional \$3.50

Code 8 - Peroxide ICP

Sodium peroxide fusion, acid dissolution followed by ICP/OES.

Elements and Detection Limits (%)			
Al	0.01	Mg	0.01
As	0.01	Mn	0.01
Be	0.001	Ni	0.005
Ca	0.01	Pb	0.01
Co	0.002	S	0.01
Cr	0.01	Si	0.01
Cu	0.005	Ti	0.01
Fe	0.05	Zn	0.01
K	0.1	Zr*	0.001
Li	0.001		

Price: One element - \$15.50; Each additional - \$3.50

* If $\text{P}_2\text{O}_5 > 0.3\%$, then fusion XRF is recommended.

Code 8 - Peroxide ICP/MS

Sodium peroxide fusion, acid dissolution followed by ICP/MS.

Elements and Detection Limit (%)			
As	0.001	Se	0.001
Bi	0.001	Sn	0.001
Cs	0.001	Te	0.001
Ga	0.001	Th	0.001
Ge	0.001	Tl	0.001
In	0.001	U	0.001
Re	0.001		

Price: One element - \$18.50; Each additional - \$3.50

Exploration Techniques for Specific Deposit Types

Code 8 - REE Assay Package. Rare Earth Element-Niobium-Zirconium-Yttrium-Tantalum-Uranium-Thorium-Beryllium-Phosphate-Tin Assay ICP and ICP/MS Package

Rare earths and rare elements are among the most difficult to analyze properly. It is essential that the sample be ground to 95%-200 mesh to ensure complete fusion of resistate minerals. The analysis requires a lithium metaborate/tetraborate fusion with subsequent analysis by ICP and ICP/MS. Mass balance is required as an additional quality control technique and elemental totals of the oxides should be between 98 to 101%. In certain circumstances the presence of small amounts of phosphate will have very severe consequences to Nb_2O_5 assays by this method with results being very low for Nb_2O_5 . Reanalysis is required for Nb_2O_5 by fusion XRF. In many cases these types of deposits may contain high amounts of fluorite. This should be noted on the Request for Analysis form or F assays should be requested. This will speed up processing as mass balance won't be achieved otherwise and a delay in returning results will ensue as samples get repeated. IN NO CIRCUMSTANCES SHOULD AN ACID DIGESTION OF ANY TYPE BE USED TO EVALUATE THE ABOVE ELEMENTS AS THEY WILL ONLY BE PARTIAL ANALYSIS.

Fusion ICP & ICP/MS, Elements and Detection Limits (ppm, except where noted)							Price: \$80.00
Al_2O_3	0.01%	Be	1	Rb	2	La	0.1
CaO	0.01%	Bi	0.4	Sb	0.5	Ce	0.1
Fe_2O_3	0.01%	Co	1	Sc	1	Pr	0.05
K_2O	0.01%	Cr	20	Sn	1	Nd	0.1
MgO	0.01%	Cs	0.5	Sr	2	Sm	0.1
MnO	0.001%	Cu	10	Ta	0.1	Eu	0.05
Na_2O	0.01%	Ga	1	Th	0.1	Gd	0.1
P_2O_5	0.01%	Ge	1	Tl	0.1	Tb	0.1
SiO_2	0.01%	Hf	0.2	U	0.1	Dy	0.1
TiO_2	0.001%	In	0.2	V	5	Ho	0.1
LOI	0.01%	Mo	2	W	1	Er	0.1
Ag	0.5	Nb	1	Y	2	Tm	0.05
As	5	Ni	20	Zn	30	Yb	0.1
Ba	3	Pb	5	Zr	4	Lu	0.04

If samples contain >0.3% P_2O_5 then Nb_2O_5 and ZrO_2 is recommended to be replaced by fusion XRF as ICP/MS results may be very low.

Code 8 - XRF Nb_2O_5 , ZrO_2 & Ta_2O_5 Option Price: \$20.00
 Code 8 - F Option Price: \$15.00

Code 8 - Niobium-Zirconium-Yttrium-Tantalum-Uranium-Thorium-Phosphate-Tin Assay XRF Package

Samples not requiring rare earths can be analyzed by fusion with lithium metaborate/tetraborate in platinum crucibles with the molten glass cast into a glass disc in platinum crucibles. These glass discs are analyzed by XRF. Generally low Ta_2O_5 detection limits can't be achieved with this package and the INAA technique is recommended for tantalum.

Elements	Detection Limit (%)	INAA Option:	Elements	Detection Limit (ppm)
Ta_2O_5	0.003		Ta	0.5
Nb_2O_5	0.003		Th	0.2
U_3O_8	0.005		U	0.5
ThO_2	0.005		La	0.5
ZrO_2	0.003		Ce	3
$\text{Fe}_2\text{O}_3(\text{T})$	0.01		Nd	5
P_2O_5	0.01		Sm	0.1
SnO_2	0.003		Eu	0.2
Y_2O_3	0.003		Yb	0.2
			Lu	0.05

Price: \$40.00, Volume discounts are available.
 Major Oxide Option: \$20.00

Price: First element - \$18.00; each additional - \$1.00

Code 8 - Chromite/PGE Assay XRF Package

Chromite assays are usually combined with major oxide analysis as other elements are required for the metallurgical use of the chromite. Cr/Fe ratios are very important in assigning value to chromite as well as other deleterious elements.

Elements	Detection Limits	Elements	Detection Limits	Price: \$35.00
Al_2O_3	0.01%	MnO	0.01%	Volume discounts are available.
CaO	0.01%	Na_2O	0.01%	
Cr_2O_3	0.01%	NiO	0.01%	
Co_3O_4	0.01%	P_2O_5	0.01%	
CuO	0.01%	SiO_2	0.01%	
Fe_2O_3	0.01%	TiO_2	0.01%	
K_2O	0.01%	V_2O_5	0.01%	
MgO	0.01%	LOI	0.01%	

PGE (ICP/OES) Option:	Au	2 - 30,000 ppb	PGE Option: \$20.00
	Pt	5 - 30,000 ppb	Volume discounts are available.
	Pd	5 - 30,000 ppb	

Code 8 - Coal Package

Parameter	ASTM Method	Price
Sample Preparation	D-2013	\$16.00
Dry Screen Analysis (1 kg) (first fraction)	D-4749	\$40.00
Specific Gravity (Relative Density)	D-167	\$29.00
Total Moisture (TM)	D-3302	\$25.00
Proximate Analysis (Ash, Inherent Moisture, Volatile Matter)	D-3172	\$40.00
Free Swelling Index	D-720	\$20.00
Calorific Value (CV)	D-5865	\$40.00
Total Sulphur	D-4239	\$26.00
Forms of Sulphur (including sulphates, pyritic sulphur and organic C)	D-2492	\$62.00
Mercury	D-6414	\$25.00
Equilibrium Moisture	D-1412	\$45.00
Ash Fusion Temperature (Reducing, Oxidizing, Combined)	D-1857	\$125.00
Ultimate Analysis:	D-3176	
Carbon		\$55.00
Hydrogen		\$60.75
Carbon + Nitrogen		\$95.00
Nitrogen	D-5373	\$55.00
Bulk Density		\$33.00
F in coal	ASTM 5987-96	\$77.00
Cl in coal		\$44.00
Loss on Ignition 750°C	ASTM D7348-08	\$25.00
Hardgrove Grindability	ASTM D409/D409 M-09	\$75.00

Major and trace elements on ash:

Price: \$163.00

Elements and Detection Limits (ppm, except where noted)							
SiO ₂	0.01%	Bi	0.4	In	0.2	Sn	1
Al ₂ O ₃	0.01%	Br	0.5	Ir	5 ppb	Sr	2
Fe ₂ O ₃	0.01%	Ce	0.1	La	0.1	Ta	0.1
MgO	0.01%	Cd	0.5	Lu	0.04	Tb	0.1
MnO	0.001%	Co	1	Mo	2	Th	0.1
CaO	0.01%	Cr	5	Nb	1	Tl	0.1
TiO ₂	0.001%	Cs	0.5	Nd	0.1	Tm	0.05
Na ₂ O ₅	0.01%	Cu	1	Ni	1	U	0.1
K ₂ O	0.01%	Dy	0.1	Pb	5	V	5
P ₂ O ₅	0.01%	Er	0.1	Pr	0.05	W	1
LOI	0.01%	Eu	0.05	Rb	2	Y	2
Ag	0.5	Ga	1	S	0.001%	Yb	0.1
As	0.5	Gd	0.1	Sb	0.2	Zn	1
Au	2 ppb	Ge	1	Sc	0.1	Zr	4
Ba	3	Hf	0.2	Se	3		
Be	1	Ho	0.1	Sm	0.1		

Code 8 - Iron Ore Analysis XRF

Oxides and Detection Limits (%)				Price: \$39.75	Volume discounts are available
SiO ₂	0.01	MnO	0.001	K ₂ O	0.01
TiO ₂	0.01	MgO	0.01	P ₂ O ₅	0.01
Al ₂ O ₃	0.01	CaO	0.01	Cr ₂ O ₃	0.01
Fe ₂ O ₃	0.01	Na ₂ O	0.01	LOI	0.01
				Davis tube magnetic separation	Price: \$100.00
				Sulphur	Price: \$18.00
				TGA Analysis	Price: \$40.00
				Satmagan Test	Price: \$25.00

Code 8 - Lithium Ore Analysis

Li assays by Peroxide Fusion ICP/OES (detection limit 0.001%)	Price: \$15.50
Li assays by 4-Acid Digestion ICP/OES (detection limit 0.001%)	Price: \$14.50
Li assays on brines by ICP/OES (detection limit 0.05 mg/L)	Price: \$15.00

Add-ons:

Any of the above packages can be converted to multielement analysis. Common elements requested are K, Mg, B, Na and Ca.

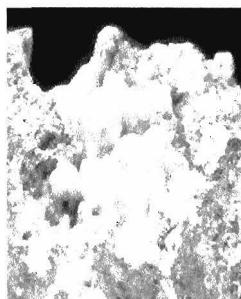
Price: \$8.00
Price: \$15.00

Notes:

For geochemical packages, see Code 1F2 for 4-Acid Digestion ICP or Code Ultratrace 7 for Peroxide Fusion ICP+ICP/MS. Multielement brine package is Code 6MB.

Volume discounts are available.

Lithogeochemistry for Exploration and Research



Total IDENT Total IDENT
Code 4E-expl. Code 4E-research

	Total IDENT Code 4E-expl.	Total IDENT Code 4E-research
Al ₂ O ₃	0.01%	0.01%
CaO	0.01%	0.01%
SiO ₂	0.01%	0.01%
Fe ₂ O ₃	0.01%	0.01%
K ₂ O	0.01%	0.01%
TiO ₂	0.005%	0.005%
MgO	0.01%	0.01%
MnO	0.01%	0.01%
Na ₂ O	0.01%	0.01%
P ₂ O ₅	0.01%	0.01%
LOI	0.01%	0.01%
Ag	0.5	0.5
As	2	1
Au	5 ppb	1 ppb
Ba	3	1
Be	1	1
Bi	10	10 (0.1+++)
Br	1	0.5
Cd	0.5	0.5
Co	1	0.1
Cr	1	0.5
Cs	0.5	0.2 (0.1+++)
Cu	1	1
Ga	(5***)	(5***) (1+++)
Ge		(0.5+++)
Hf	0.5	0.2 (0.1+++)
In		(0.1+++)
Ir	5 ppb	1 ppb
Mo	5	2
Nb	(2***)	(2***) (0.2+++)
Ni	1	1
Pb	5	5
Rb	20 (2***)	10 (2***) (1+++)
Sb	0.2	0.1
Sc	0.1	0.01
Se	3	0.5
Sn	(5***)	(5***) (1+++)
Sr	2	2
Ta	1	0.3 (0.01+++)
Th	0.5	0.1 (0.05+++)
Tl		(0.05+++)
U	0.5	0.1 (0.01+++)
V	5	5
W	3	1
Y	1	1
Zn	1	1
Zr	4	4 (1+++)
La	0.5	0.05 (0.05+++)
Ce	3	1 (0.05+++)
Pr		(0.01+++)
Nd	5	1 (0.05+++)
Sm	0.1	0.01
Eu	0.1	0.05 (0.005+++)
Gd		(0.01+++)
Tb	0.5	0.1 (0.01+++)
Dy		(0.01+++)
Ho		(0.01+++)
Er		(0.01+++)
Tm		(0.005+++)
Yb	0.1	0.05 (0.01+++)
Lu	0.05	0.01 (0.002+++)

Samples

1-10	\$54.00	\$119.00
11+	\$49.50	\$110.00

Notes:

Code 4A - Both the exploration and research grades are determined by INAA.

A minimum sample weight of 2 g is recommended. REE chondrite plots are provided at no charge with the research grade or at **\$1.25 per sample for the exploration grade**. For elements indicated with † (Code 4A RES/MS) by fusion ICP/MS, add \$31.00.

Codes 4B, 4B2-STD, 4B2-RESEARCH, 4LITHO, 4LITHORESEARCH - Actlabs has developed a lithium metaborate/tetraborate fusion ICP Whole Rock Package Code 4B and a trace element ICP/MS package Code 4B2 which is unique for scope of elements and detection limits. The two packages are combined for Code 4Litho and Code 4Lithoresearch. The quality of whole rock data in Code 4B meets or exceeds quality of data by fusion XRF Code 4C, the old standard in whole rock analysis. The fusion process ensures total metals particularly for elements like REE in resistate phases. (This may not be the case for acid digestions, particularly for heavy rare earths and other elements contained in refractory minerals like zircon, sphene, monazite, chromite, gahnite and several other phases. If refractory minerals are not digested, a bias may occur for certain REE and HFSE with acid digestions). Quality of data is exceptional and can be used for the most exacting applications. The trace element package by ICP/MS, Codes 4B2-STD or 4B2-RESEARCH, on the fusion solution provides research quality data whether using standard or research detection limits. Eu determinations are semiquantitative in samples having extremely high Ba concentrations (greater than 1%). This package is intended primarily for unmineralized samples. Mineralized samples can be analyzed, however, data may be semiquantitative for chalcophile elements (Ag, As, Bi, Co, Cu, Mo, Ni, Pb, Sb, Sn, W and Zn). When quantitative values for the chalcophile elements are required on mineralized samples, please indicate as

Code 4B2-STDQUANT, 4B2-RESEARCHQUANT, 4LITHOQUANT or 4LITHORESEARCHQUANT, and a surcharge of \$17.75 per sample will apply. A minimum sample weight of 5 g is required. Elements with (+) are available (Code 4B1) for an additional \$9.25 per sample. Those indicated with (++) are available by INAA (Code 4B-INAA) for an additional \$16.50 per sample. Please add 0.5 to 30 g depending on sample size you prefer to analyze for Au with this option. Values on replicates and standards are provided at no cost, as are REE plots.

Code 4C, 4C Laterite - The tried and true fusion XRF whole rock package. Samples containing high barite or high sulphide (greater than 1%) should be analyzed with Code 4B. A minimum sample weight of 3 g is required. We reserve the right to change analytical method to Code 4B if required by the sample composition.

Code 4C1 - This XRF pressed pellet method requires a minimum sample weight of 6 g. The XRF pressed pellet method is only suitable for low metal content of below 1% for each element listed.

Prices: 1st element - \$11.00; each additional - \$3.50; ** lot - \$20.00; * lot - \$20.00. Each element not in * or **, add \$3.50 per element.

Code 4E - This unique package uses ICP, INAA, ICP/MS and XRF technologies to completely characterize geological samples. Two different grades of analysis (exploration and research) are provided depending upon your requirements. This package is not suitable for analyzing concentrates or mill products. A minimum sample weight of 5 g is required).

Code 4E Options

- Ga, Pb, Sn, Nb and Rb (**Code 4E-XRF**) indicated by (***) by Pressed Pellet XRF **add \$20.00**. This package can be added to Code 4E exploration or Code 4E research (please add 6 g of sample).
- The Code **4E ICP/MS** add-on option (detection limits indicated by +++) can only be added to Code 4E research grade at an **additional cost of \$33.00**.
- Any selections from Code 4F can be added to Code 4E exploration or research

Code 4F - Other analyses associated with WRA (can be added to any Code 4 package). Add 1 gram for each option chosen.

FeO (0.1%) by Titration	\$16.50	CO ₂ (0.01%) by Coulometry	\$16.50
S (0.01%) by Infrared	\$16.50	H ₂ O +/- (0.1%) by Gravimetric	\$22.00
SO ₄ (0.3%) by Infrared	\$22.00	C, S (0.01%) by Infrared	\$22.00
Cl (0.01%) by INAA	\$24.25	B (0.5 ppm) by PGNAA	\$31.00
Hg by Cold Vapour FIMS	\$8.25	B (2 ppm) by PGNAA	\$20.00
F (0.01%) by ISE	\$14.00	N (total) Thermal Conductivity	\$38.50

Enviromining

Code 11 - Acid/Base Accounting

Acid/Base	Includes sulphur (total), Net NP, AP, NP and paste pH	\$82.50
Acid/Base Enhanced	Includes sulphur (total), Net NP, AP, NP, paste pH, acid soluble sulphate and sulphide	\$104.50
Acid/Base Supreme	Includes sulphur (total), sulphate (total and acid soluble), sulphide, CO ₂ , paste pH, Net NP, AP and NP	\$115.50

Code 12 - Leachate Quality

Leachate Extraction Procedure	SWEP, TCLP, EPA, MWEP (leach only for metals)	\$86.00
Leachate Analysis	SWEP, TCLP, EPA (includes metals and Hg)	\$93.50
Leachate Extraction Procedure	For Organics - please enquire for price for organic analysis	\$104.50

Code 13 - Vegetation Growth Potential

Gradation (% clay, % silt, % sand, % gravel)	\$66.00	
Paste pH	\$6.75	
Conductivity	\$13.25	
Sodium adsorption (SAR)	\$82.50	
Organic carbon (LECO)	\$27.50	
Meteoric Water Mobility Test	On request	
Humidity Cells	On request	
		N - NH ₃
		N - NH ₄
		N - NH ₄ + NH ₃
		Total Nitrogen (LECO)
		Total Nitrogen - Nitrate KCl extractable
		S - Leach ICP
		K - Ammonium acetate leach
		P - Sodium bicarbonate leach

Miscellaneous Methods

All element are in ppm except where noted.

Code 5 - Other Elements - INAA

1 g sample required.

	Basic Code 5A	Improved Code 5B
As	2	1
Au	5 ppb	2 ppb
Ba	200	100
Br	2	0.5
Ce	5	3
Co	2	0.5
Cr	10	1
Cs	2	0.5
Eu	0.2	0.2
Fe	0.02%	0.01%
Hf	1	0.5
La	1	0.1
Lu	0.1	0.05
Mo	5	2
Na	500	100
Nd	10	5
Rb	50	20
Sb	0.2	0.1
Sc	0.5	0.1
Se	5	2
Sm	0.1	0.01
Ta	2	0.5
Th	1	0.1
U	2	0.2
W	5	2
Yb	0.5	0.2

Price: First element \$12.75
Each additional \$2.25

Code 5D - Elements & Specific Methods

Element	Detection Limit	Price
B-Total (PGNAA)	0.5	\$31.00
B-Total (PGNAA)	2	\$20.00
C-Total (Infrared)	0.01%	\$17.75
C-Graphitic (Infrared)	0.05%	\$27.50
C-Organic (Infrared)	0.05%	\$27.50
F (ISE)	100	\$15.00
Li ("total" digestion)	1	\$11.00
Sn (XRF)	5	\$11.00
Tl ("total" digestion)	0.2	\$11.00
U-Total (DNC)	0.1	\$15.50

Code 5G - Carbon & Sulphur/Metallurgical Balance Package

Element	Detection Limit	Price: \$82.50/sample
C-Total	0.01%	
C-Graphitic	0.05%	
C-Organic	0.05%	
CO ₂	0.01%	
S	0.01%	
SO ₄	0.3%	

Code 5S - Short Lived Isotopes - INAA

Al	1	Price: First element \$38.50 Each additional \$6.75
Br	5	
Cl	100	
Cu	100	
Dy	0.5	
Ga	10	
I	0.5	
In	0.1	
Mg	0.05%	
Mn	0.1	
Na	50	
Re	1	
Ti	50	
V	0.1	

Code S9	Particle Size Analysis (Laser)	\$82.50
---------	--------------------------------	---------

Quality Analysis ...



Innovative Technologies

Invoice No.: A11-5670
 Purchase Order:
 Invoice Date: 01-Aug-11
 Date submitted: 23-Jun-11
 Your Reference: Separation
 GST #: R121979355

Mega Graphite Inc.
 Suite A-86 Wilson Street
 Oakville Ontario L6K 3G5
 Canada

ATTN: Pres. Paul Gorman

INVOICE

No. samples	Description	Unit Price	Total
33	RX1-T(DRYDEN)	\$ 10.00	\$ 330.00
33	4F-B(0.5ppm)	\$ 31.00	\$ 1,023.00
33	4F-F	\$ 11.00	\$ 363.00
33	5A	\$ 12.75	\$ 420.75
33	8-REE Assay Package	\$ 80.00	\$ 2,640.00
33	8-Li Assay	\$ 22.00	\$ 726.00
		Subtotal:	\$ 5,502.75
		HST-13% :	\$ 715.36
		AMOUNT DUE: (CAD) :	\$ 6,218.11

Net 30 days. 1 1/2 % per month charged on overdue accounts.

Bank Transfers can be made to:

ACTIVATION LABORATORIES LTD at

ROYAL BANK OF CANADA

59 WILSON STREET WEST

ANCASTER, ONTARIO CANADA L9G 1N1

TRANSIT #: 00102 003 ACCOUNT #: 100 154 4

SWIFT CODE#: ROYCCAT2

Please reference the invoice number when
 making a payment by Bank/Wire transfer.
 Intermediary Bank Fees are the responsibility
 of the client.
 Thank you!



ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5. TELEPHONE +1 905 648 9611 or
 +1 888 228 5227 FAX +1 905 648 9613

E-MAIL: ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Quality Analysis ...



Innovative Technologies

Date Submitted: 23-Jun-11

Invoice No.: A11-5670

Invoice Date: 19-Jul-11

Your Reference: Separation

Mega Graphite Inc.

Suite A-86 Wilson Street
Oakville Ontario L6K 3G5
Canada

ATTN: Pres. Paul Gorman

CERTIFICATE OF ANALYSIS

34 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 4F-B(0.5ppm) PGNA
 Code 4F-F Fusion Specific Ion Electrode-ISE
 REPORT **A11-5670** Code 5A INAA(INAAGEO)
 Code 8-REE Assay Package Major Elements Fusion
 ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
 Code 8-Sodium Peroxide Fusion Sodium Peroxide Fusion

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Total includes all elements in % oxide to the left of total.
 Values which exceed Upper limit should be assayed for most accurate values.

CERTIFIED BY :

Emmanuel Eseme , Ph.D.
Quality Control



ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
 +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Activation Laboratories Ltd. Report: A11-5670

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U	Li	Br	Mass	B	Mass
Unit Symbol	ppm	%	ppm	g	ppm	g									
Detection Limit	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1	0.01	2		0.5	
Analysis Method	FUS-MS	FUS-NaO2	INAA	INAA	PGNAA	PGNAA									
57801	0.23	1.6	0.28	0.8	0.2	2	6.9	< 5	0.2	0.2	0.11	17	1.005	11.6	1.00
57802	0.08	0.6	0.12	1.5	128	4	7.8	18	5.0	4.7	0.07	< 2	1.010	8.3	1.01
57803-No Core															
57804	0.06	0.5	0.07	1.2	15.7	2	17.4	20	3.1	6.0	0.31	< 2	1.087	2.3	1.09
57805	0.06	0.4	0.07	1.0	22.7	3	12.8	12	2.7	4.9	0.98	< 2	1.008	< 0.5	1.01
57806	< 0.05	0.3	0.05	0.6	22.1	3	14.5	8	3.1	2.3	1.04	13	1.002	0.7	1.00
57807	< 0.05	0.1	< 0.04	0.5	29.3	3	7.7	7	4.4	3.9	0.83	< 2	1.007	0.6	1.01
57808	< 0.05	0.2	< 0.04	< 0.2	30.0	3	9.6	11	5.0	4.6	0.67	< 2	1.009	0.8	1.01
57809	< 0.05	0.3	0.05	0.3	29.4	3	11.5	9	4.4	5.3	0.88	8	1.010	4.4	1.01
57810	0.08	0.6	0.08	0.5	56.0	5	15.9	16	7.7	9.4	0.07	8	1.009	< 0.5	1.01
57811	< 0.05	0.4	0.06	0.6	65.5	9	10.4	22	6.6	7.1	0.02	23	1.004	5.3	1.00
57812	0.26	1.8	0.29	0.8	1.3	2	9.8	< 5	0.2	0.2	0.20	< 2	1.006	6.0	1.01
57813	0.28	1.9	0.33	0.9	0.1	2	5.3	6	0.2	0.3	0.33	< 2	1.004	3.3	1.00
57814	0.27	1.8	0.30	0.9	0.2	2	8.4	< 5	0.2	< 0.1	0.12	< 2	1.007	5.4	1.01
57815	0.15	1.1	0.16	0.9	55.8	6	20.8	21	4.4	5.6	0.12	29	1.004	12.1	1.00
57816	0.07	0.6	0.10	1.7	45.5	3	17.2	13	3.3	6.4	0.48	< 2	1.010	6.4	1.01
57817	< 0.05	0.1	< 0.04	0.8	59.6	3	11.0	12	5.4	8.9	0.13	< 2	1.008	< 0.5	1.01
57818	< 0.05	0.3	0.05	0.9	77.6	4	12.0	15	5.0	7.5	0.02	< 2	1.009	1.0	1.01
57819	0.28	1.9	0.34	1.1	20.5	5	33.2	27	0.4	1.9	0.40	24	1.009	10.6	1.01
57820	< 0.05	0.3	0.05	0.7	62.3	7	12.6	11	4.0	6.6	0.54	< 2	1.005	0.6	1.01
57821	< 0.05	0.2	0.05	0.6	55.3	3	15.0	9	3.4	6.3	0.78	18	1.000	< 0.5	1.00
57822	< 0.05	0.3	0.05	3.4	47.0	3	9.8	13	3.7	13.9	0.92	18	1.005	< 0.5	1.01
57823	< 0.05	0.2	< 0.04	1.4	36.2	3	10.8	7	1.7	3.4	0.97	< 2	1.005	4.7	1.01
57824	< 0.05	0.1	< 0.04	< 0.2	24.2	3	27.8	6	1.6	1.1	0.75	22	1.009	2.5	1.01
57825	< 0.05	0.2	< 0.04	< 0.2	25.2	4	10.3	< 5	1.0	0.6	1.27	18	1.002	0.8	1.00
57826	< 0.05	0.2	< 0.04	< 0.2	20.6	3	24.8	< 5	1.1	1.1	0.14	5	1.010	7.0	1.01
57827	< 0.05	0.2	< 0.04	< 0.2	18.3	4	33.1	6	1.3	1.1	0.72	4	1.004	4.6	1.00
57828	< 0.05	0.3	0.05	< 0.2	16.5	3	22.7	< 5	1.0	1.0	0.88	14	1.005	3.9	1.01
57829	< 0.05	0.3	0.05	< 0.2	22.2	4	18.5	6	1.6	2.2	0.87	11	1.008	3.0	1.01
57830	0.06	0.4	0.08	0.6	45.1	5	17.9	8	3.8	6.9	0.58	< 2	1.002	0.8	1.00
57831	0.08	0.7	0.10	2.0	34.5	3	9.2	17	2.7	6.5	0.61	12	1.001	< 0.5	1.00
57832	< 0.05	0.2	< 0.04	2.3	14.0	3	7.1	10	2.3	6.2	0.70	< 2	1.004	< 0.5	1.00
57833	< 0.05	0.2	< 0.04	0.7	92.3	4	10.8	8	2.0	4.9	0.18	< 2	1.008	2.5	1.01
57834	< 0.05	0.2	0.04	0.9	73.2	4	9.6	9	2.2	4.4	0.33	31	1.008	< 0.5	1.01

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Quality Control		F	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Analyte Symbol	Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	1	1	5	20	1	20	10	30	1	1	5	
Analysis Method	FUS-ISE	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS							
NCS DC86314 Cert																									
BCR-2 Meas		53.81	13.31	13.31		3.48	7.07	3.09	1.76	2.282	0.33			33		438									
BCR-2 Cert		54.1	13.5	13.8		3.59	7.12	3.16	1.79	2.26	0.35			33		416									
57802 Orig	0.06	67.61	16.75	3.01	0.119	1.53	3.93	4.15	0.93	0.138	0.11	1.40	99.67	8	186	46	70	8	< 20	20	60	50	5	9	
57802 Dup	0.06	68.83	16.62	3.06	0.118	1.56	3.97	4.20	0.95	0.139	0.11	1.40	101.0	8	189	46	70	8	< 20	30	50	52	6	9	
57810 Orig																									
57810 Dup																									
57819 Orig	0.43	50.67	15.71	13.09	0.278	5.04	6.32	0.41	2.48	0.733	0.06	4.40	99.39	45	33	283	380	46	110	250	540	23	4	< 5	
57819 Dup	0.43	50.05	15.49	12.96	0.277	5.03	6.26	0.40	2.44	0.720	0.06	4.40	98.10	44	33	280	390	47	110	260	600	23	4	< 5	
57820 Orig																									
57820 Dup																									
57830 Orig	0.01	73.02	16.79	0.81	0.087	0.03	0.37	3.70	3.08	0.004	0.06	0.91	98.86	< 1	155	< 5	< 20	< 1	< 20	< 10	90	46	6	6	
57830 Split	0.01	74.05	17.04	0.81	0.087	0.03	0.37	3.83	3.14	0.004	0.04	0.88	100.3	< 1	155	< 5	< 20	< 1	< 20	< 10	100	47	6	6	
57830 Orig																									
57830 Dup																									
Method Blank Method																									
Blank																									
Method Blank Method																									
Blank																									
Method Blank Method																									
Blank																									
Method Blank Method																									
Blank																									
																		< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5

Activation Laboratories Ltd. Report: A11-5670

Quality Control		Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Analyte Symbol	Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Unit Symbol		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit		2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1
Analysis Method		FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-ICP	FUS-MS																	
DH-1a Meas																									
DH-1a Cert																									
NIST 694 Meas																									
NIST 694 Cert																									
DNC-1 Meas		142	17	35																					
DNC-1 Cert		144.0	18.0	38																					
GBW 07113 Meas		41	45	389																					
GBW 07113 Cert		43.0	43.0	403																					
LK		74																							
LKSD-3 Meas																									
LKSD-3 Cert		78.0																							
MAG-1 (Depleted) Meas																									
MAG-1 (Depleted) Cert																									
SY-2 Meas																									
SY-2 Cert																									
SY-3 Meas																									
SY-3 Cert																									
DR-N Meas																									
DR-N Cert																									
UB-N Meas																									
UB-N Cert																									
NIST 1632c Meas																									
NIST 1632c Cert																									
W-2a Meas		20	195	20	86	7	< 2	< 0.5																	
W-2a Cert		21.0	190	24.0	94.0	7.90	0.600	0.0460																	
SY-4 Meas		1204	117	556																					
SY-4 Cert		1191	119	517																					
CTA-AC-1 Meas																									
CTA-AC-1 Cert																									
BIR-1a Meas		106	14	17	< 1																				
BIR-1a Cert		110	16	18	0.6																				
NCS DC86312 Meas																									
NCS DC86312 Cert																									
ZW-C Meas		8340																							
ZW-C Cert		8500																							
NCS DC70014 Meas																									
NCS DC70014 Cert																									
NCS DC70009 (GBW07241) Meas		503																							
NCS DC70009 (GBW07241) Cert		500.00																							
SGR-1b Meas																									
SGR-1b Cert																									
OREAS 100a (Fusion) Meas																									
OREAS 100a (Fusion) Cert																									
OREAS 101a (Fusion) Meas																									
OREAS 101a (Fusion) Cert																									
JR-1 Meas		247																							
JR-1 Cert		257																							
SARM 3 Meas																									
SARM 3 Cert																									
NCS DC86303 Meas																									
NCS DC86303 Cert																									
NCS DC86304 Meas																									
NCS DC86304 Cert																									
NCS DC86314 Meas																									

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Quality Control		Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	
Analyte Symbol	Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit		2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	
Analysis Method	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-ICP	FUS-MS																			
NCS DC86314 Cert																										
BCR-2 Meas		339	33	170																						
BCR-2 Cert		346	37	188																						
57802 Orig	979	71	7	20	62	< 2	< 0.5	< 0.2	262	< 0.5	90.5	77	< 0.4	1.1	2.5	0.34	1.5	1.0	0.20	1.2	0.2	1.1	0.2	0.5		
57802 Dup	1040	70	7	20	60	< 2	< 0.5	< 0.2	282	< 0.5	96.6	79	< 0.4	1.2	2.6	0.36	1.5	1.1	0.21	1.4	0.3	1.3	0.2	0.5		
57810 Orig																										
57810 Dup																										
57819 Orig	4530	56	17	38	6	< 2	< 0.5	< 0.2	88	< 0.5	319	110	1.1	2.4	5.9	0.81	4.4	1.8	0.54	2.5	0.5	3.1	0.7	1.9		
57819 Dup	4630	56	17	39	6	< 2	< 0.5	< 0.2	88	< 0.5	324	118	0.7	2.5	5.9	0.85	4.4	1.8	0.54	2.5	0.5	3.2	0.6	1.9		
57820 Orig																										
57820 Dup																										
57830 Orig	2980	44	6	5	63	< 2	< 0.5	< 0.2	69	< 0.5	77.6	< 3	1.9	1.1	2.6	0.32	1.6	1.0	< 0.05	1.1	0.3	1.4	0.1	0.3		
57830 Split	2870	43	5	5	62	< 2	< 0.5	< 0.2	79	< 0.5	77.8	< 3	2.1	1.1	2.6	0.32	1.6	1.0	< 0.05	1.1	0.3	1.5	0.1	0.3		
57830 Orig																										
57830 Dup																										
Method Blank Method Blank		< 2				< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5		< 0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Method Blank Method Blank																										
Method Blank Method Blank																										
Method Blank Method Blank																										
Method Blank Method Blank																										

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Quality Control

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U	Li	Br	Mass	B	Mass
Unit Symbol	ppm	%	ppm	g	ppm	g									
Detection Limit	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1	0.01	2		0.5	
Analysis Method	FUS-MS	FUS-Na ₂ O ₂	INAA	INAA	PGNAA	PGNAA									

DH-1a Meas													890		
DH-1a Cert													910		
NIST 694 Meas															
NIST 694 Cert															
DNC-1 Meas													1.9		
DNC-1 Cert													2.0		
GBW 07113 Meas															
GBW 07113 Cert															
LKSD-3 Meas	2.5	0.40		0.6	1			10.9	4.9						
LKSD-3 Cert	2.70	0.400		0.700	2.00			11.4	4.60						
MAG-1 (Depleted) Meas													214		
MAG-1 (Depleted) Cert													250		
SY-2 Meas													88.3		
SY-2 Cert													88.0		
SY-3 Meas													108		
SY-3 Cert													107		
DR-N Meas															
DR-N Cert															
UB-N Meas															
UB-N Cert															
NIST 1632c Meas													23		
NIST 1632c Cert													18.7		
W-2a Meas	0.30	1.9	0.29	2.2	0.5	2	0.1	9	2.1	0.5					
W-2a Cert	0.380	2.10	0.330	2.60	0.500	0.300	0.200	9.30	2.40	0.530					
SY-4 Meas															
SY-4 Cert															
CTA-AC-1 Meas	10.4	1.08	1.5	2.6				23.1	4.3						
CTA-AC-1 Cert	11.4	1.08	1.13	2.65				21.8	4.4						
BIR-1a Meas	1.6	0.24	0.5				< 5								
BIR-1a Cert	1.7	0.3	0.60				3								
NCS DC86312 Meas	13.2	86.9	12.1					26.7							
NCS DC86312 Cert	15.1	87.79	11.96					23.6							
ZW-C Meas				84.5									1.15		
ZW-C Cert				82									1.13		
NCS DC70014 Meas	3.3	0.47					27200								
NCS DC70014 Cert	3.3	0.50					27200.00								
NCS DC70009 (GBW07241) Meas	2.13	15.4	2.22			2200			28.2						
NCS DC70009 (GBW07241) Cert	2.2	14.9	2.4			2200.00			28.3						
SGR-1b Meas															
SGR-1b Cert															
OREAS 100a (Fusion) Meas	2.15	14.4	2.09					51.0	141						
OREAS 100a (Fusion) Cert	2.31	14.9	2.26					51.6	135						
OREAS 101a (Fusion) Meas				17.1	2.40			35.0	420						
OREAS 101a (Fusion) Cert				17.5	2.66			36.6	422						
JR-1 Meas	0.61	4.4	0.69	4.0	1.9		1.6	20	26.9	8.3					
JR-1 Cert	0.67	4.55	0.71	4.51	1.86		1.56	19.3	26.7	8.88					
SARM 3 Meas													0.22		
SARM 3 Cert													0.21		
NCS DC86303 Meas													1.07		
NCS DC86303 Cert													1.06		

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Quality Control

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U	Li	Br	Mass	B	Mass
Unit Symbol	ppm	%	ppm	g	ppm	g									
Detection Limit	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1	0.01	2	0.5		
Analysis Method	FUS-MS	FUS-Na ₂ O ₂	INAA	INAA	PGNAA	PGNAA									
NCS DC86314 Meas												1.79			
NCS DC86314 Cert												1.81			
BCR-2 Meas															
BCR-2 Cert															
57802 Orig	0.08	0.7	0.12	1.6	129	4	7.6	18	4.9	4.5					
57802 Dup	0.08	0.6	0.11	1.5	128	4	7.9	19	5.2	4.9					
57810 Orig											0.07				
57810 Dup											0.08				
57819 Orig	0.29	1.9	0.35	1.1	21.3	6	33.9	27	0.4	1.9					
57819 Dup	0.28	2.0	0.34	1.2	19.7	5	32.4	26	0.4	1.9					
57820 Orig											0.54				
57820 Dup											0.54				
57830 Orig	0.06	0.4	0.08	0.6	45.1	5	17.9	8	3.8	6.9	0.58	< 2	1.002	0.8	1.00
57830 Split	0.06	0.4	0.07	0.5	41.9	5	17.4	7	3.6	7.0	0.58	< 2	1.002	2.7	1.00
57830 Orig											0.58				
57830 Dup											0.57				
Method Blank Method															
Blank	< 0.05	< 0.1	< 0.04	< 0.2	< 0.1	< 1	< 0.1	< 5	< 0.1	< 0.1					
Method Blank Method												< 0.01			
Blank															
Method Blank Method												< 0.01			
Blank															
Method Blank Method													< 0.5		1.00
Blank															

Quality Analysis ...**Innovative Technologies**

Invoice No.: **A11-6059**
 Purchase Order: **A11-**
 Invoice Date: **02-Aug-11**
 Date submitted: **04-Jul-11**
 Your Reference: **Separation**
 GST #: **R121979355**

Mega Graphite Inc.
Suite A-86 Wilson Street
Oakville Ontario L6K 3G5
Canada

ATTN: Pres. Paul Gorman

INVOICE

No. samples	Description	Unit Price	Total
17	RX1-T(DRYDEN)	\$ 10.00	\$ 170.00
17	4F-B(0.5ppm)	\$ 31.00	\$ 527.00
17	4F-F	\$ 11.00	\$ 187.00
17	5A (Br)	\$ 12.75	\$ 216.75
17	8-Li (Sodium Peroxide Fusion)	\$ 15.50	\$ 263.50
17	8-REE Assay Package	\$ 80.00	\$ 1,360.00
		Subtotal:	\$ 2,724.25
		HST-13% :	\$ 354.15
		AMOUNT DUE: (CAD) :	\$ 3,078.40

Net 30 days. 1 1/2 % per month charged on overdue accounts.

Bank Transfers can be made to:

ACTIVATION LABORATORIES LTD at
 ROYAL BANK OF CANADA
 59 WILSON STREET WEST
 ANCASTER, ONTARIO CANADA L9G 1N1
 TRANSIT #: 00102 003 ACCOUNT #: 100 154 4
 SWIFT CODE#: ROYCCAT2

Please reference the invoice number when
 making a payment by Bank/Wire transfer.
 Intermediary Bank Fees are the responsibility
 of the client.
 Thank you!



Quality Analysis ...



Innovative Technologies

Date Submitted: 04-Jul-11
Invoice No.: A11-6059
Invoice Date: 29-Jul-11
Your Reference: Separation

Mega Graphite Inc.
Suite A-86 Wilson Street
Oakville Ontario L6K 3G5
Canada

ATTN: Pres. Paul Gorman

CERTIFICATE OF ANALYSIS

17 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 4F-B(0.5ppm) PGNAA
 Code 4F-F Fusion Specific Ion Electrode-ISE
 Code 5A INAA(INAAGEO)
 Code 8-Li (Sodium Peroxide Fusion) Sodium Peroxide Fusion
 Code 8-REE Assay Package Major Elements Fusion
 ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Total includes all elements in % oxide to the left of total.
 Values which exceed Upper limit should be assayed for most accurate values.

CERTIFIED BY :

Emmanuel Eseme , Ph.D.
 Quality Control

ISO/IEC 17025



ACTIVATION LABORATORIES LTD.

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 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

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Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U	F	B	Mass	Br	Mass
Unit Symbol	ppm	%	ppm	g	ppm	g									
Detection Limit	0.05	0.1	0.04	0.2	0.1	< 1	0.1	5	0.1	0.1	0.01	0.5		2	
Analysis Method	FUS-MS	FUS-ISE	PGNAA	PGNAA	INAA	INAA									
57835	0.07	0.5	0.08	0.9	33.7	1	14.0	11	1.6	4.3	< 0.01	< 0.5	1.01	< 2	1.491
57836	< 0.05	0.2	0.06	4.9	33.8	< 1	7.4	24	2.8	8.6	< 0.01	< 0.5	1.01	< 2	1.398
57837	0.30	2.0	0.34	1.2	13.2	< 1	21.6	6	0.3	0.1	0.63	< 0.5	1.00	< 2	1.450
57838	< 0.05	0.4	0.05	2.7	57.0	2	10.9	17	5.3	10.8	0.03	< 0.5	1.01	< 2	1.364
57839	< 0.05	0.3	0.05	0.7	60.4	2	7.6	8	2.1	4.7	0.01	< 0.5	1.01	< 2	1.601
57840	< 0.05	0.2	< 0.04	0.9	44.6	2	17.9	11	3.0	3.8	< 0.01	3.4	1.00	< 2	1.535
57841	< 0.05	0.3	0.04	0.6	70.6	3	10.2	7	2.2	3.1	< 0.01	2.4	1.01	< 2	1.620
57842	< 0.05	0.4	0.06	0.8	47.2	2	15.8	12	3.5	3.9	< 0.01	< 0.5	1.01	< 2	1.532
57843	< 0.05	0.3	0.05	2.8	129	2	7.7	17	4.8	7.6	< 0.01	5.1	1.00	< 2	1.745
57844	0.29	2.0	0.33	1.2	8.0	2	43.4	< 5	0.2	0.3	1.11	0.6	1.00	< 2	1.519
57845	0.05	0.4	0.05	0.6	40.3	2	13.4	11	5.2	5.3	0.01	2.9	1.00	< 2	1.481
57846	< 0.05	0.3	0.04	0.5	33.6	3	13.0	9	4.1	3.6	0.04	0.6	1.00	< 2	1.429
57847	< 0.05	0.3	< 0.04	0.3	35.3	4	18.7	7	5.5	3.9	0.04	3.1	1.01	< 2	1.394
57848	0.08	0.5	0.05	0.4	28.8	3	14.7	10	5.3	4.2	0.03	5.9	1.01	< 2	1.395
57849	0.08	0.6	0.08	0.9	34.5	2	11.2	14	7.0	10.9	< 0.01	1.2	1.01	< 2	1.325
57850	< 0.05	0.2	0.05	0.6	65.8	2	2.0	43	3.6	4.3	< 0.01	3.2	1.00	< 2	1.490
57851	0.18	1.2	0.19	0.7	0.2	< 1	5.8	< 5	0.1	< 0.1	0.08	1.7	1.00	2	1.783

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Quality Control		Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	
Analyte Symbol	Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	
Analysis Method	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-ICP	FUS-MS																			
OREAS 101a (Fusion)																										
Cert																										
OREAS 101b (Fusion)																										
Meas																										
OREAS 101b (Fusion)																										
Cert																										
JR-1 Meas	250																									
JR-1 Cert	257																									
SARM 3 Meas																										
SARM 3 Cert																										
NCS DC86303 Meas																										
NCS DC86303 Cert																										
NCS DC88304 Meas																										
NCS DC88304 Cert																										
NCS DC86314 Meas																										
NCS DC86314 Cert																										
BCR-2 Meas	329	31	176																							
BCR-2 Cert	346	37	188																							
57844 Orig																										
57844 Dup																										
57849 Orig	1860	24	8	18	86	< 2	< 0.5	< 0.2	252	< 0.5	16.5	6	5.4	1.1	3.5	0.43	1.6	1.3	< 0.05	1.4	0.4	1.6	0.2	0.4		
57849 Dup	1840	24	9	19	90	< 2	< 0.5	< 0.2	249	< 0.5	16.6	7	5.0	1.2	3.4	0.45	1.6	1.3	< 0.05	1.5	0.4	1.8	0.2	0.5		
Method Blank Method	< 2				< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5		< 0.4	< 0.1	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	
Blank																										
Method Blank Method	< 2					< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5		< 0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	
Method Blank Method	Blank																									
Method Blank Method	Blank																									
Method Blank Method	Blank																									
Method Blank Method	Blank																									
Method Blank Method	Blank																									

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Quality Control																
Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U	F	B	Mass	Br	Mass	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	g	ppm	g	
Detection Limit	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.5	2			
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ISE	PGNAA	PGNAA	INAA	INAA	
DH-1a Meas												880				
DH-1a Cert												910				
TAN-1 Meas												2370				
TAN-1 Cert												2360				
NIST 694 Meas																
NIST 694 Cert																
DNC-1 Meas												2.0				
DNC-1 Cert												2.0				
GBW 07113 Meas													0.13			
GBW 07113 Cert													0.130			
LK																
LKSD-3 Meas	2.8	0.40		0.6		1			10.7	4.7						
LKSD-3 Cert	2.70	0.400		0.700		2.00			11.4	4.60						
TDB-1 Meas												2.7				
TDB-1 Cert												2.7				
LKSD-4 Meas													50			
LKSD-4 Cert													49.0			
LKSD-4 Meas													49			
LKSD-4 Cert													49.0			
SY-2 Meas												87.8				
SY-2 Cert												88.0				
SY-3 Meas												109				
SY-3 Cert												107				
DR-N Meas												0.05				
DR-N Cert												0.0500				
DR-N Meas												0.05				
DR-N Cert												0.0500				
UB-N Meas												< 0.01				
UB-N Cert												0.00950				
W-2a Meas	0.36	2.1	0.33	2.5	0.5	2	0.1	10	2.2	0.5	0.02					
W-2a Cert	0.380	2.10	0.330	2.60	0.500	0.300	0.200	9.30	2.40	0.530	0.0205					
W-2a Meas												0.02				
W-2a Cert												0.0205				
SY-4 Meas																
SY-4 Cert																
CTA-AC-1 Meas																
CTA-AC-1 Cert	11.2	1.13			2.7											
BIR-1a Meas	11.4	1.08			2.65											
BIR-1a Cert																
BIR-1a Meas	1.7	0.27		0.7								< 5				
BIR-1a Cert												3				
NCS DC86312 Meas	1.7	0.3		0.60												
NCS DC86312 Cert	14.4	87.3	12.0									25.3				
NCS DC86312 Meas	15.1	87.79	11.96									23.6				
ZW-C Meas																
ZW-C Cert																
NCS DC70014 Meas												27200				
NCS DC70014 Cert	0.53	3.3	0.48									27200.00				
NCS DC86316 Meas																
NCS DC86316 Cert	0.57	3.3	0.50													
NCS DC70009 (GBW07241) Meas																
NCS DC70009 (GBW07241) Cert	712															
NCS DC70009 (GBW07241) Meas	2.39	15.6	2.30			2200						29.6				
NCS DC70009 (GBW07241) Cert	712															
OREAS 100a (Fusion) Meas	2.2	14.9	2.4			2200.00						28.3				
OREAS 100a (Fusion) Cert																
SGR-1b Meas													0.21			
SGR-1b Cert													0.1960			
OREAS 100a (Fusion) Meas																
OREAS 100a (Fusion) Cert																
OREAS 101a (Fusion) Meas																
OREAS 101a (Fusion) Cert																
OREAS 101a (Fusion) Meas	2.96	18.4	2.51									35.4	421			

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Quality Control

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Ti	Pb	Th	U	F	B	Mass	Br	Mass
Unit Symbol	ppm	%	ppm	g	ppm	g									
Detection Limit	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.5	2		
Analysis Method	FUS-MS	FUS-ISE	PGNAA	PGNAA	INAA	INAA									
OREAS 101a (Fusion) Cert	2.90	17.5	2.66						36.6	422					
OREAS 101b (Fusion) Meas	2.79	17.4	2.40						34.7	380					
OREAS 101b (Fusion) Cert	2.56	17.6	2.58						37.1	396					
JR-1 Meas	0.71	4.8	0.71	4.3	1.7	1	1.6	19	26.6	9.0					
JR-1 Cert	0.67	4.55	0.71	4.51	1.86	1.59	1.56	19.3	26.7	8.88					
SARM 3 Meas															
SARM 3 Cert															
NCS DC86303 Meas															
NCS DC86303 Cert															
NCS DC86304 Meas															
NCS DC86304 Cert															
NCS DC86314 Meas															
NCS DC86314 Cert															
BCR-2 Meas															
BCR-2 Cert															
57844 Orig															
57844 Dup															
57849 Orig	0.07	0.6	0.07	0.9	34.0	2	11.3	15	7.1	11.0	< 0.01				
57849 Dup	0.08	0.6	0.08	0.9	35.0	2	11.2	14	7.0	10.7	< 0.01				
Method Blank Method Blank	< 0.05	< 0.1	< 0.04	< 0.2	< 0.1	< 1	< 0.1	< 5	< 0.1	< 0.1					
Method Blank Method Blank	< 0.05	< 0.1	< 0.04	< 0.2	< 0.1	< 1	< 0.1	< 5	< 0.1	< 0.1					
Method Blank Method Blank											0.03				
Method Blank Method Blank												< 2	1.000		
Method Blank Method Blank															
Method Blank Method Blank												< 0.5	1.00		
Method Blank Method Blank															

LITHOLOGIC LEGEND

8. PEGMATITE, PEGMATITIC GRANITE, ALBITE
- 8A. ALBITIC UNITS
- a. albitic aplite +garnet+mica
 - b. mixed albitic aplite & granitic to blocky units
 - c. quartz-garnet-mica zones +cordierite + holmquistite
- 8B. QUARTZ + K-spar DOMINANT PEGMATITE & PEGMATITIC GRANITE
- a. quartz + K-spar + albite + biotite
 - b. quartz + K-spar + albite + muscovite
 - c. quartz + K-spar + albite + mica
 - d. moderately albitized qtz + K-spar + mica units
- 8C. PETALITE BEARING PEGMATITES
- 8D. GRANITIC PHASES
7. FELSIC GRANITIC INTRUSIONS
- a. granite, granodiorite
 - b. tronjhemite, feldspar porphyry
 - c. FP-garnet+quartz+muscovite+biotite+Li-mica
6. MAFIC-ULTRAMAFIC INTRUSIONS
- a. hornblende phryic gabbro
 - b. aphyric, medium grained gabbro (possibly unit 1d)
 - c. aphyric, coarse grained gabbro
 - d. diorite
5. HIGH GRADE CLASTIC METASEDIMENT- GNEISS
4. CLASTIC METASEDIMENT
- a. siltstone, sandstone
 - b. quartz-sericite-garnet schist
3. CHEMICAL METASEDIMENT
- a. chert
 - b. chert-oxide I.F.
 - c. silicate facies I.F.
 - d. sulphide facies I.F.
2. FELSIC METAVOLCANICS
1. MAFIC METAVOLCANICS
- a. massive flows
 - b. pillowd flows
 - c. banded units; interflow seds to highly tectonized units
 - d. medium grained massive flows or gabbro (in part, unit 6b)

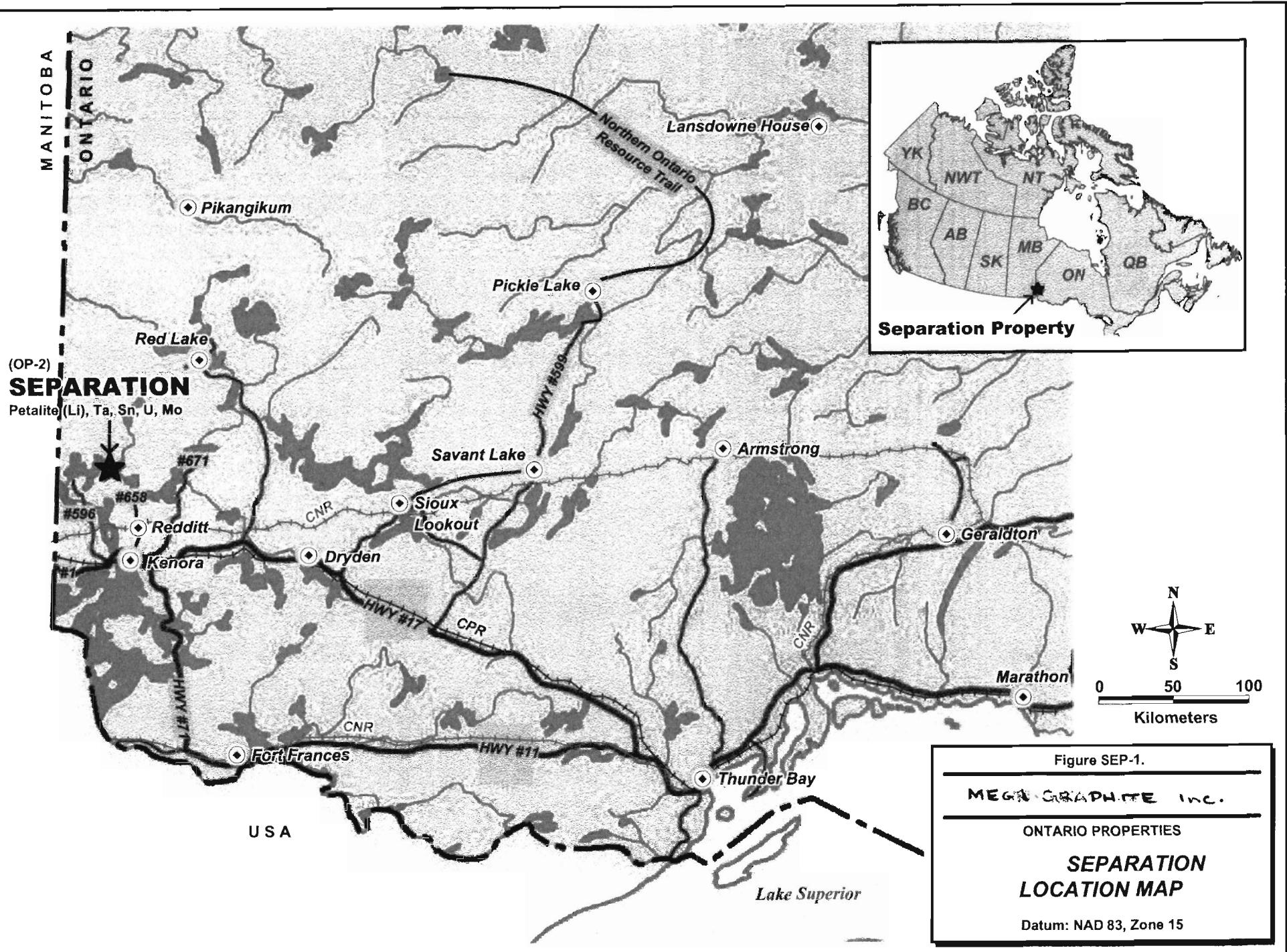


Figure : SEP - 1 Location Map

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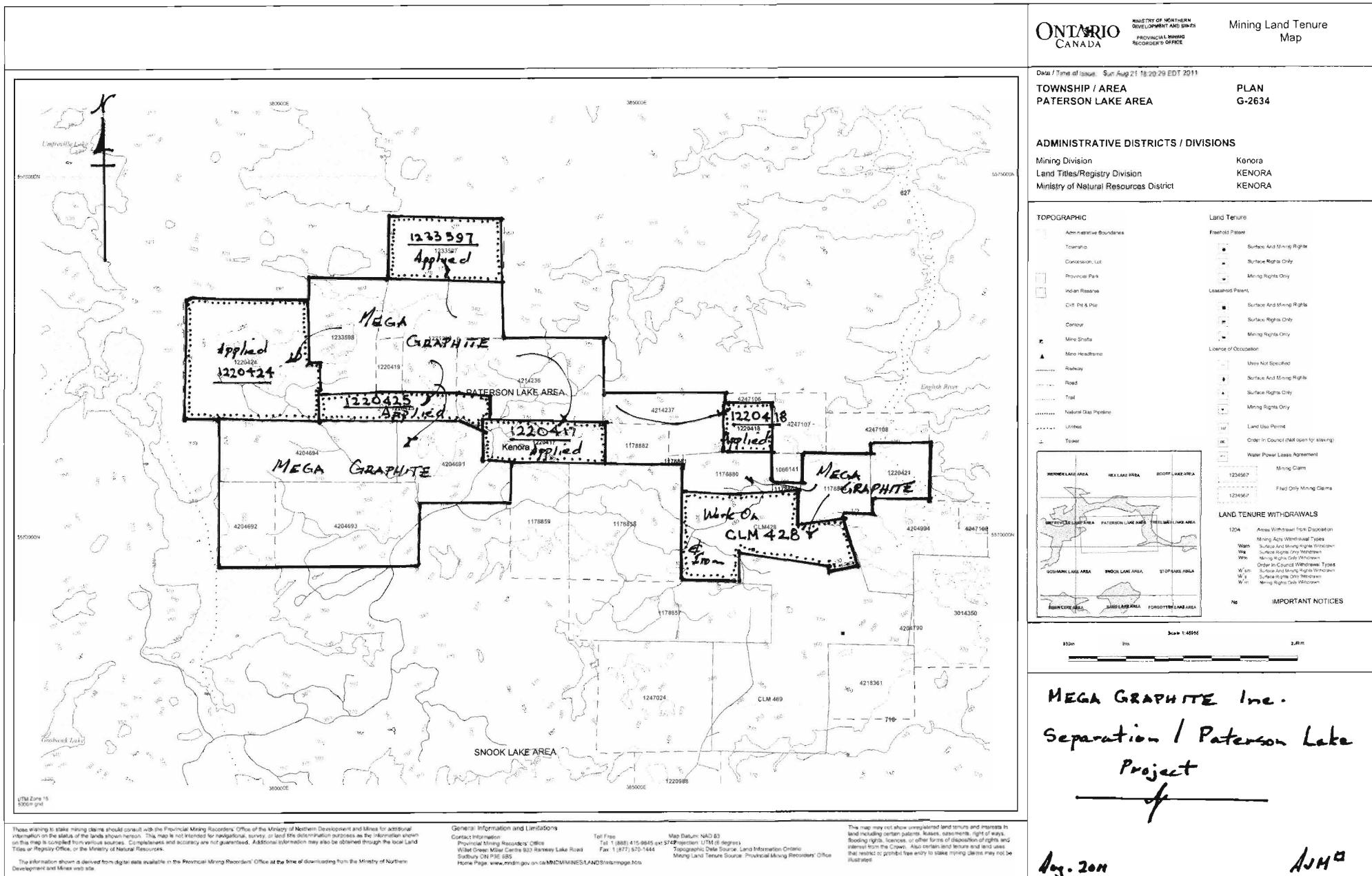


Figure: SEP-2 Paterson Lake Area Claim Map

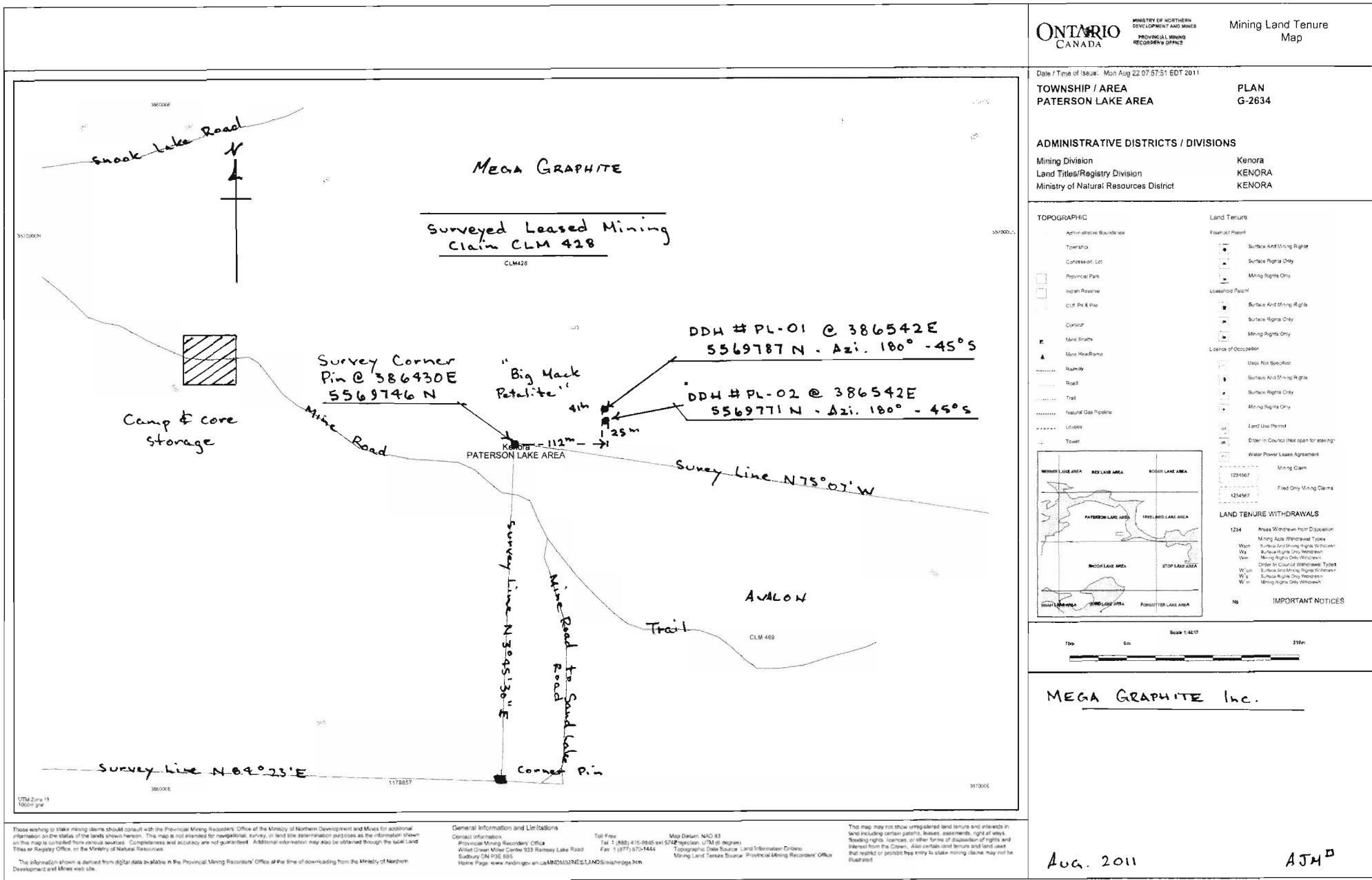


Figure : SEP - 3 Drill Hole Location Plan

