



## **REQUEST FOR PROPOSAL**

**Title:** Supply of Geophysical Products and Services

**Date Issued:** 30 June 2009

**GBC Ref. No:** QUEST-South Gravity RFP

**Solicitation Closes:** 12:00 PM on 10th July 2009 Pacific Time

**Technical Enquiries to:** Peter Kowalczyk  
Contracting Authority  
Tel: 778 329 0430

**General Enquires to:** Christa Sluggett or Kirstie Simpson  
Geoscience BC  
Tel: 604 662 4147 or [info@geosciencebc.com](mailto:info@geosciencebc.com)

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## ***SECTION I: BIDDER INSTRUCTIONS AND INFORMATION***

### **PART I: DESCRIPTION OF REQUIREMENT**

#### **Title**

Airborne Gravity Survey for QUEST-South.

#### **Statement of Work**

The following is a solicitation for the submission of technical, management and price proposals for the supply of an airborne gravity survey over the QUEST-West Survey area as defined in Annex "A". In addition to supplying "raw" data it is also requested that a typical suite of post-processed products be supplied. The successful Bidder will be required to perform the Work in accordance with the Statement of Work attached as Annex "B".

#### **Delivery**

All deliverables under any resultant contract must be received by Geoscience BC on or before 15<sup>th</sup> December 2009.

### **PART II: STANDARD INSTRUCTIONS, CLAUSES, GENERAL TERMS AND CONDITIONS**

#### **Ownership of Intellectual Property**

Any intellectual property arising from Research and Development carried out in the course of Work under the Contract will be the property of Geoscience BC.

#### **Bidder Performance**

- a) Geoscience BC may reject a Bid where any of the following circumstances are present:
  - i. the Bidder becomes bankrupt or is insolvent or is seeking statutory creditor protection or where, for whatever reason, its activities are rendered inoperable for an extended period;
  - ii. evidence, satisfactory to Geoscience BC, of fraud, bribery, fraudulent misrepresentation or failure to comply with any law protecting individuals against any manner of discrimination, has been received with respect to the Bidder, any of its employees or any subcontractor included as part of its Bid;
  - iii. Geoscience BC has exercised its contractual remedies of suspension or termination for default with respect to a Contract with the Bidder, any of its employees or any subcontractor included as part of its Bid; or
  - iv. Geoscience BC determines that the Bidder's performance on other contracts, including the efficiency and workmanship as well as the extent to which the Bidder executed the work in accordance with contractual terms and conditions, is lacking in sufficient quality to jeopardize the successful completion of the requirement being bid on.
- b) Where Geoscience BC intends to reject a Bid pursuant to a provision of paragraph (a), the Contracting Authority will so inform the Bidder and provide the Bidder ten days within which to make representations, prior to making a final decision on the Bid rejection.

## PART III: OTHER INSTRUCTIONS

### **Contracting Authority**

The Contracting Authority for this Request for Proposal (RFP) is:

Peter Kowalczyk  
Project Leader  
14717 16A Ave  
Surrey, BC, Canada  
V4A 5M6  
**Tel:** +1 778 329 0430 ext 3, +1 604 536 5591  
**Fax:** +1 604 662 4107

### **DO NOT SEND YOUR PROPOSAL TO THE CONTRACTING AUTHORITY**

#### **Enquiries/Time Extension to the RFP Closing Date**

All enquiries and other communications related to this RFP throughout the solicitation period and until contract award shall be directed in writing only to the Contracting Authority by email at [kowalczyk@geosciencebc.com](mailto:kowalczyk@geosciencebc.com) or fax at 604-662-4107.

To ensure the equality of information among Bidders, answers to inquiries which are relevant to the quality of proposals will be forwarded simultaneously to every Bidder. Such inquiries must be received at least two (2) working days before the closing date.

A request for a time extension to the Bid closing date WILL NOT be considered.

#### **Submission of Proposal**

Bids will be accepted in the form of electronic submissions in PDF format to [proposals@geosciencebc.com](mailto:proposals@geosciencebc.com) by the time and date indicated on page 1 of this RFP document.

Proposals submitted in response to this RFP will not be returned.

#### **Validity of Proposal**

Any proposal must remain open for acceptance for a period of not less than thirty (30) days after the closing date of the RFP. After the RFP closing date, no amendments to the proposal will be accepted. However, during the evaluation, the Contracting Authority may require clarification from or conduct interviews with Bidders.

#### **Applicable Laws**

The Contract shall be interpreted and governed, and the relations between the Parties determined, by the laws in force in the province of British Columbia and the parties attorn to the jurisdiction of the British Columbia courts.

#### **Rights of Geoscience BC**

Geoscience BC reserves the right to:

- a) reject any or all proposals received in response to this RFP;
- b) enter into negotiations with one or more Bidders on any or all aspects of its proposal;

- c) accept any proposal in whole or in part;
- d) cancel and/or reissue this requirement at any time;
- e) award one or more contracts;
- f) verify any or all information provided with respect to this requirement;
- g) award contracts without competition for follow-on Work, if any, to the successful Bidder for this requirement.

**Incurring of Cost**

No costs incurred before receipt of a signed contract or specified written authorisation from the Contracting Authority can be charged to any resulting contract.

## ***SECTION II: PROPOSAL PREPARATION INSTRUCTIONS, EVALUATION CRITERIA AND CONTRACTOR SELECTION METHOD***

### **PART I: PROPOSAL PREPARATION INSTRUCTIONS**

#### **Preparation of Proposal**

Bidders shall prepare a proposal addressing all the requirements of this RFP.

The proposal must include a first sheet specifying the Bidder name and address, the name and title of the person authorised to sign on behalf of the Bidder, and their signature. The Bidder's signature indicates acceptance of the terms and conditions set out herein. Ensure that the signatory has authority to commit the organisation to making such a contractual offer.

Ensure that the proposal includes a contact name, address, phone number, and email address.

The proposal must be transmitted as an electronic file with name QUEST-South\_Gravity\_YOUR-COMPANY-NAME. Include two clearly titled sections:

A – Technical and Management Proposal (with no reference to price)

B – Price Proposal and Certifications (Annex “D”)

The proposal should be concise and should address, but not necessarily be limited to the points listed in Annex “E”, Preparation of Proposals.

#### **Certifications**

In order to be considered for contract award, Bidders must comply with the stated certification requirements detailed in Annex “D”.

### **PART II: EVALUATION CRITERIA AND CONTRACTOR SELECTION METHOD**

#### **Evaluation Criteria**

The technical proposal will be evaluated in accordance with the Evaluation Criteria and Contractor Selection detailed in Annex “C” attached. It is suggested that you address these criteria in sufficient depth in your proposal. The proposal will be evaluated solely on its content. Geoscience BC reserves the right to request additional data or clarification from the Bidder.

### ***SECTION III: RESULTING CONTRACT CLAUSES***

Additional terms and conditions applicable to any resulting contract:

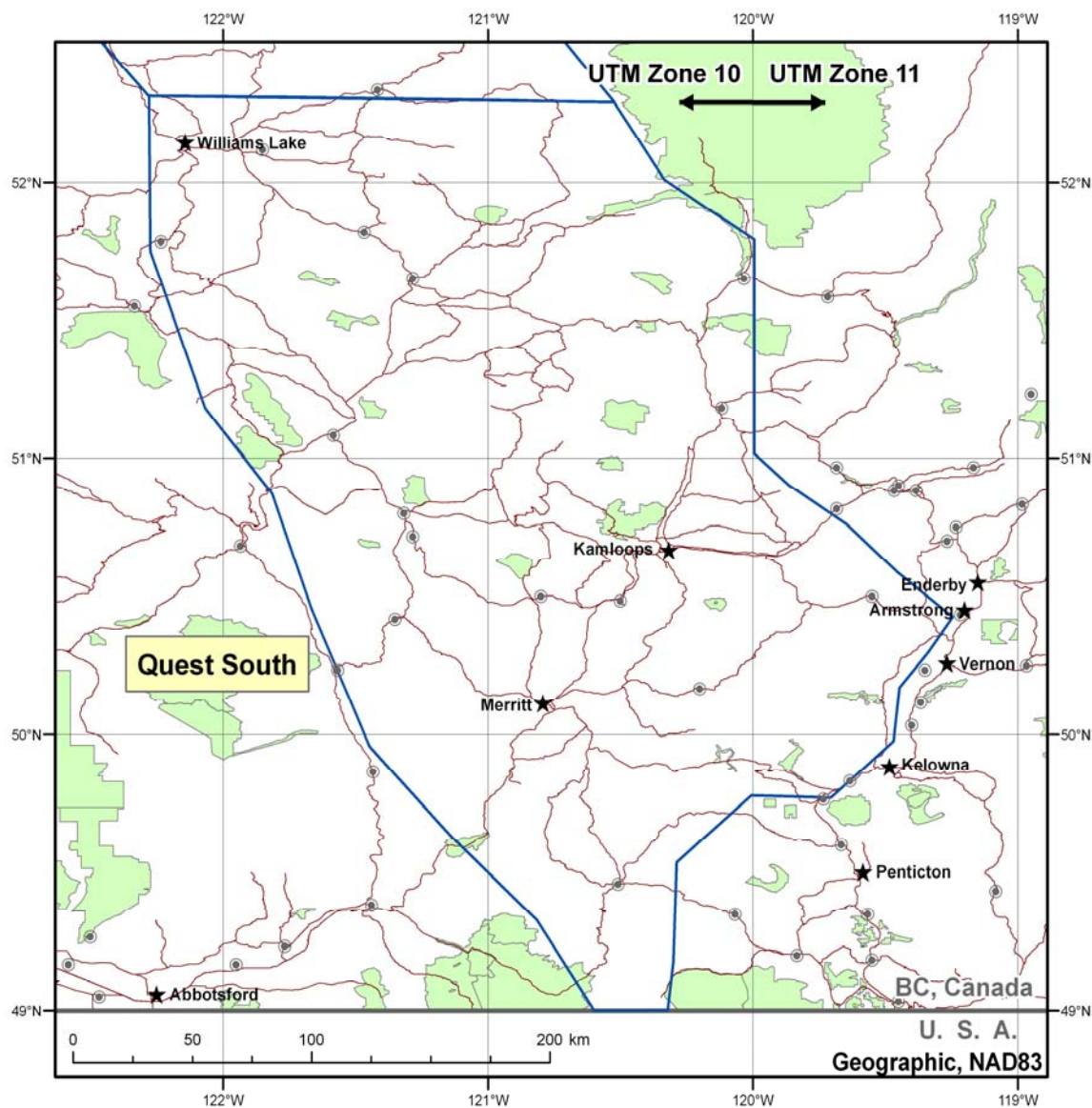
#### **Experience and Education**

The Contractor certifies that all statements made with regard to the education and experience of individuals proposed for completing the subject Work are accurate and factual, and the Contractor agrees that Geoscience BC reserves the right to verify any information provided in this regard and that untrue statements may result in the Contract being terminated for default pursuant to the terms and the general conditions forming part of this Contract.

## ANNEX “A”: DETAILS OF SURVEY LOCATION

### Summary of Survey Location

Approximate survey location and size is shown in Figure 1. The total line length is about 25,000 line-km comprising approximately 22600 line-km of east west traverse lines at 2 km line spacing and about 2400 line-km of north south tie lines.



**Figure 1:** Line Location and Spacing for QUEST-South Project. The area proposed for flying is the area identified as QUEST-South. Note that the survey area lies within two UTM zones, and that the east west flight lines are set parallel to the UTM coordinate system in each zone.



## Coordinates System Requirements

Coordinates are provided for UTM coordinate system - parallel to UTM Zone 10 in zone 10 and parallel to Zone 11 in Zone 11.

The east west lines are tabulated below. North south tie lines are not included in this tabulation.

Line	UTM Zone 10				UTM Zone 11				LENGTH
	Start_X	Start_Y	End_X	End_Y	Start_X	Start_Y	End_X	End_Y	
5796N	549125	5796000	668838	5796000					119.713
5794N	549158	5794000	669757	5794000					120.600
5792N	549190	5792000	670676	5792000					121.486
5790N	549222	5790000	671595	5790000					122.373
5788N	549255	5788000	672514	5788000					123.259
5786N	549287	5786000	673433	5786000					124.146
5784N	549320	5784000	674352	5784000					125.033
5782N	549352	5782000	675271	5782000					125.919
5780N	549384	5780000	676190	5780000					126.806
5778N	549417	5778000	677109	5778000					127.692
5776N	549449	5776000	678028	5776000					128.579
5774N	549482	5774000	678947	5774000					129.466
5772N	549514	5772000	679866	5772000					130.374
5770N	549547	5770000	680785	5770000					131.254
5768N	549579	5768000	681704	5768000					132.133
5766N	549611	5766000	682623	5766000					133.013
5764N	549644	5764000	683542	5764000					133.893
5762N	549676	5762000	684461	5762000					134.773
5760N	549709	5760000	685380	5760000					135.653
5758N	549741	5758000	686299	5758000					136.533
5756N	549774	5756000	687218	5756000					137.413
5754N	549806	5754000	688137	5754000					138.293
5752N	549838	5752000	689056	5752000					139.173
5750N	549871	5750000	689975	5750000					140.053
5748N	549903	5748000	690894	5748000					140.933
5746N	549936	5746000	691813	5746000					141.813
5744N	549968	5744000	692732	5744000					142.693
5742N	550001	5742000	693651	5742000					143.573
5740N	550033	5740000	694570	5740000					144.453
5738N	550065	5738000	695489	5738000					145.333
5736N	550098	5736000	696408	5736000					146.213
5734N	550130	5734000	697327	5734000					147.093
5732N	550163	5732000	698246	5732000					147.973
5730N	550195	5730000	699165	5730000					148.853
5728N	550228	5728000	700084	5728000					149.733
5726N	550260	5726000	701003	5726000					150.613
5724N	550293	5724000	701922	5724000					151.493
5722N	550325	5722000	702841	5722000					152.373
5720N	550358	5720000	703760	5720000					153.253
5718N	550390	5718000	704679	5718000					154.133
5716N	550423	5716000	705598	5716000					155.013
5714N	550455	5714000	706517	5714000					155.893

Line	UTM Zone 10				UTM Zone 11				LENGTH
	Start_X	Start_Y	End_X	End_Y	Start_X	Start_Y	End_X	End_Y	
5712N	555252	5712000	708439	5712000					153.187
5710N	555731	5710000	708522	5710000					152.791
5708N	556209	5708000	708604	5708000					152.394
5706N	556688	5706000	708686	5706000					151.998
5704N	557167	5704000	708769	5704000					151.602
5702N	557645	5702000	708851	5702000					151.206
5700N	558124	5700000	708933	5700000					150.809
5698N	558603	5698000	709016	5698000					150.413
5696N	559081	5696000	709098	5696000					150.017
5694N	559560	5694000	709180	5694000					149.620
5692N	560039	5692000	709263	5692000					149.224
5690N	560517	5690000	709345	5690000					148.828
5688N	560996	5688000	709427	5688000					148.431
5686N	561474	5686000	709510	5686000					148.035
5684N	561953	5684000	709592	5684000					147.639
5682N	562432	5682000	709674	5682000					147.243
5680N	562910	5680000	709757	5680000					146.846
5678N	563389	5678000	709839	5678000					146.450
5676N	563868	5676000	709921	5676000					146.054
5674N	564346	5674000	710004	5674000					145.657
5672N	564825	5672000	710086	5672000					145.261
5670N	565454	5670000	710168	5670000					144.715
5668N	566516	5668000	710251	5668000					143.734
5666N	567579	5666000	710333	5666000					142.754
5664N	568641	5664000	710415	5664000					141.774
5662N	569704	5662000	710498	5662000					140.794
5660N	570766	5660000	710580	5660000					139.814
5658N	571829	5658000	710662	5658000					138.834
5656N	572891	5656000	710753	5656000					137.862
5654N	573954	5654000	710493	5654000	289507	5654000	291228	5654000	138.261
5652N	575016	5652000	710575	5652000	289425	5652000	292546	5652000	138.680
5650N	576079	5650000	710656	5650000	289344	5650000	293864	5650000	139.098
5648N	577141	5648000	710738	5648000	289262	5648000	295182	5648000	139.516
5646N	578204	5646000	710819	5646000	289181	5646000	296500	5646000	139.935
5644N	579266	5644000	710900	5644000	289100	5644000	297818	5644000	140.353
5642N	580329	5642000	710982	5642000	289018	5642000	299359	5642000	140.994
5640N	581391	5640000	711063	5640000	288937	5640000	301180	5640000	141.916
5638N	582454	5638000	711144	5638000	288856	5638000	303002	5638000	142.838
5636N	583477	5636000	711226	5636000	288774	5636000	304823	5636000	143.799
5634N	583965	5634000	711307	5634000	288693	5634000	306644	5634000	145.294
5632N	584453	5632000	711388	5632000	288612	5632000	308465	5632000	146.790
5630N	584942	5630000	711469	5630000	288531	5630000	310286	5630000	148.286
5628N	585430	5628000	711550	5628000	288449	5628000	312108	5628000	149.781
5626N	585918	5626000	711632	5626000	288368	5626000	313774	5626000	151.123
5624N	586407	5624000	711713	5624000	288287	5624000	315074	5624000	152.096
5622N	586895	5622000	711794	5622000	288206	5622000	316373	5622000	153.069
5620N	587384	5620000	711875	5620000	288125	5620000	317672	5620000	154.043
5618N	587872	5618000	711956	5618000	288044	5618000	318971	5618000	155.016

Line	UTM Zone 10				UTM Zone 11				LENGTH
	Start_X	Start_Y	End_X	End_Y	Start_X	Start_Y	End_X	End_Y	
5616N	588360	5616000	712037	5616000	287963	5616000	320270	5616000	155.989
5614N	588849	5614000	712118	5614000	287882	5614000	321569	5614000	156.962
5612N	589337	5612000	712199	5612000	287801	5612000	322868	5612000	157.936
5610N	589825	5610000	712280	5610000	287720	5610000	324167	5610000	158.909
5608N	590314	5608000	712361	5608000	287639	5608000	325466	5608000	159.882
5606N	590802	5606000	712442	5606000	287558	5606000	326847	5606000	160.937
5604N	591291	5604000	712523	5604000	287477	5604000	328384	5604000	162.149
5602N	591779	5602000	712604	5602000	287396	5602000	329922	5602000	163.361
5600N	592267	5600000	712685	5600000	287315	5600000	331459	5600000	164.572
5598N	592756	5598000	712766	5598000	287234	5598000	332997	5598000	165.784
5596N	593244	5596000	712847	5596000	287153	5596000	334534	5596000	166.996
5594N	593732	5594000	712928	5594000	287072	5594000	336072	5594000	168.207
5592N	594221	5592000	713008	5592000	286992	5592000	337610	5592000	169.419
5590N	594709	5590000	713089	5590000	286911	5590000	339147	5590000	170.631
5588N	595314	5588000	713170	5588000	286830	5588000	340297	5588000	171.338
5586N	595922	5586000	713251	5586000	286749	5586000	339287	5586000	169.881
5584N	596529	5584000	713332	5584000	286668	5584000	338277	5584000	168.425
5582N	597137	5582000	713412	5582000	286588	5582000	337267	5582000	166.968
5580N	597745	5580000	713493	5580000	286507	5580000	336257	5580000	165.511
5578N	598353	5578000	713574	5578000	286426	5578000	335248	5578000	164.054
5576N	598961	5576000	713654	5576000	286346	5576000	334238	5576000	162.598
5574N	599569	5574000	713735	5574000	286265	5574000	333201	5574000	161.114
5572N	600176	5572000	713816	5572000	286184	5572000	332032	5572000	159.497
5570N	600784	5570000	713896	5570000	286104	5570000	330862	5570000	157.880
5568N	601392	5568000	713977	5568000	286023	5568000	329692	5568000	156.263
5566N	602000	5566000	714057	5566000	285943	5566000	328522	5566000	154.646
5564N	602608	5564000	714138	5564000	285862	5564000	327352	5564000	153.029
5562N	603216	5562000	714218	5562000	285782	5562000	326182	5562000	151.412
5560N	603823	5560000	714299	5560000	285701	5560000	325225	5560000	150.007
5558N	604431	5558000	714379	5558000	285621	5558000	325009	5558000	149.344
5556N	605039	5556000	714460	5556000	285540	5556000	324792	5556000	148.681
5554N	605647	5554000	714540	5554000	285460	5554000	324576	5554000	148.017
5552N	606255	5552000	714620	5552000	285380	5552000	324360	5552000	147.354
5550N	606863	5550000	714701	5550000	285299	5550000	324144	5550000	146.691
5548N	607471	5548000	714781	5548000	285219	5548000	323928	5548000	146.027
5546N	608078	5546000	714861	5546000	285138	5546000	323711	5546000	145.364
5544N	608686	5544000	714942	5544000	285058	5544000	323495	5544000	144.700
5542N	609294	5542000	715022	5542000	284978	5542000	323279	5542000	144.037
5676N	563868	5676000	709921	5676000					146.054
5540N	609902	5540000	715102	5540000	284898	5540000	323063	5540000	143.373
5538N	610510	5538000	715183	5538000	284817	5538000	322211	5538000	142.074
5536N	611118	5536000	715263	5536000	284737	5536000	320606	5536000	140.021
5534N	612116	5534000	715343	5534000	284657	5534000	319002	5534000	137.578
5532N	613400	5532000	715423	5532000	284577	5532000	317397	5532000	134.850
5530N	614683	5530000	715503	5530000	284497	5530000	315793	5530000	132.121
5528N	615967	5528000	715584	5528000	284416	5528000	314188	5528000	129.393
5526N	617250	5526000	715664	5526000	284336	5526000	312583	5526000	126.665
5524N	618534	5524000	715744	5524000	284256	5524000	310979	5524000	123.936

UTM Zone 10					UTM Zone 11				
Line	Start_X	Start_Y	End_X	End_Y	Start_X	Start_Y	End_X	End_Y	LENGTH
5522N	619818	5522000	715824	5522000	284176	5522000	309374	5522000	121.208
5520N	621101	5520000	715904	5520000	284096	5520000	307770	5520000	118.479
5518N	622385	5518000	715229	5518000					92.844
5516N	623668	5516000	713844	5516000					90.176
5514N	624952	5514000	712460	5514000					87.508
5512N	626235	5512000	711075	5512000					84.839
5510N	627519	5510000	709690	5510000					82.171
5508N	628803	5508000	708306	5508000					79.503
5506N	630086	5506000	706921	5506000					76.835
5504N	631370	5504000	705536	5504000					74.167
5502N	632653	5502000	704152	5502000					71.498
5500N	633937	5500000	702767	5500000					68.830
5498N	635333	5498000	701383	5498000					66.050
5496N	636808	5496000	699998	5496000					63.190
5494N	638283	5494000	698613	5494000					60.330
5492N	639759	5492000	697229	5492000					57.470
5490N	641234	5490000	696249	5490000					55.015
5488N	642710	5488000	696276	5488000					53.567
5486N	644185	5486000	696303	5486000					52.118
5484N	645660	5484000	696330	5484000					50.670
5482N	647136	5482000	696357	5482000					49.221
5480N	648611	5480000	696384	5480000					47.773
5478N	650087	5478000	696411	5478000					46.325
5476N	651562	5476000	696438	5476000					44.876
5474N	653037	5474000	696465	5474000					43.428
5472N	654513	5472000	696492	5472000					41.980
5470N	655988	5470000	696519	5470000					40.531
5468N	657464	5468000	696547	5468000					39.083
5466N	658831	5466000	696574	5466000					37.742
5464N	659771	5464000	696601	5464000					36.829
5462N	660712	5462000	696628	5462000					35.916
5460N	661652	5460000	696655	5460000					35.003
5458N	662592	5458000	696682	5458000					34.090
5456N	663532	5456000	696709	5456000					33.177
5454N	664472	5454000	696736	5454000					32.263
5452N	665412	5452000	696763	5452000					31.350
5450N	666353	5450000	696741	5450000					30.389
5448N	667293	5448000	696651	5448000					29.358
5446N	668233	5446000	696561	5446000					28.328
5444N	669173	5444000	696470	5444000					27.297
5442N	670113	5442000	696380	5442000					26.267
5440N	671053	5440000	696289	5440000					25.236
5438N	671993	5438000	696199	5438000					24.206
5436N	672934	5436000	696109	5436000					23.175
5434N	673874	5434000	696018	5434000					22.145
5432N	674814	5432000	695928	5432000					21.114
Total: E-W Lines									22600.509

## ***ANNEX “B”: STATEMENT OF WORK***

**TITLE:** AIRBORNE GRAVITY SURVEY AND DATA PROCESSING FOR THE QUEST-SOUTH PROJECT AREA

### **1. Introduction**

The QUEST and QUEST-West project areas were flown by Geoscience BC in 2007 and 2008 using the Sander AIRGRAV system. This data set is available for review by Bidders wishing to review typical responses in the drift covered terrain of central British Columbia and the more mountainous terrain of north central British Columbia. Bidders should take note that the area proposed for the QUEST-South area survey is not identical, it is expected that drift cover will not be as deep, and that the survey area is more mountainous in its southern and eastern parts. Go to [www.geosciencebc.com/s/QUEST .asp](http://www.geosciencebc.com/s/QUEST.asp) for more information on the QUEST Project.

### **2. Objectives/Requirements**

The contractor shall provide all of the necessary facilities, equipment, materials, competent and experienced personnel and supervisory and administrative support to complete the project.

The total length of data collected during the survey will depend on the cost per kilometre of data acquisition and the final budget allocation. It is planned that data acquisition will be completed during the summer months of 2009 while flying conditions are good.

Final deliverable items must be delivered by December 15, 2009. A penalty will be negotiated for late delivery of the final deliverables.

Prior to the start of the survey, the contractor's representatives are required to meet with the Contracting Authority to discuss all aspects of the work.

### **3. Technical Specifications/Details**

#### **3.1 Regional Data**

The requirements and conditions are as follows:

- 1) The requirement is for an airborne gravity survey.
- 2) The requirement is for 2 km line spacing, flying East-West per the UTM coordinate system - parallel to UTM Zone 10 in Zone 10 and parallel to Zone 11 in Zone 11. The survey will extend the data acquired in 2007 in the QUEST survey on behalf of Geoscience BC southward into the QUEST-South area proposed survey area. North south tie lines at about 20 km spacing are required. One tie line along the boundary between UTM zone 10 and 11 will be considered to provide control for line flown in both zones.
- 3) Data will be acquired with an RMS value for the entire set of line intersections of less than 0.7 mGal, with each individual flight line having intersection differences of not more than 1.25 mGal after the following processing steps.
  - i. application of a 100 second filter, or a similar filter appropriate to the airborne gravity system proposed.
  - ii. application of a 0th order (i.e. one constant shift per line) levelling.  
Note: areas with steep large amplitude linear gravity anomalies may have slightly higher intersection values caused by directional filtering of these anomalies.
- 4) Location (x,y,z) will be  $\leq 5$ m after differential corrections

- 5) Flight paths will not deviate more than 100 m from pre-planned flight paths over distances greater than 4 kilometers, unless this is required for reasons of flight safety.
- 6) Data will be acquired with a nominal ground clearance of 200 m. The flight path will be pre-planned to fly a "soft drape survey" consistent with the safe performance of the aircraft. Vertical deviation from the planned drape surface will not exceed 15 m over a distance greater than 7 km, unless required for the safe operation of the aircraft. The Geoscience BC technical authority must be notified within 24 hours of deviations from these specifications.
- 7) Data gaps will not be greater than 0.5 seconds in the following data channels:
  - i. gravimeter x,y,z accelerations
  - ii. airborne GPS accelerations
  - iii. Ground GPS base station accelerations
- 8) The purpose of the data being collected is to assist the geological mapping of the sub-crop geology, including regional geological structures. The survey is to provide context for mineral exploration. Specifications, functionality, performance statistics and past successful applications documentation are encouraged as Appendices.
- 9) High quality data is of prime importance. The successful Bidder will be expected to maintain an open relationship with GBC personnel during the conduct of the survey so that GBC can satisfy itself that the data being acquired are of high quality while the survey is being acquired.
- 10) Consideration will be given to the logistical plan presented by the contractor and the commitment of the contractor to start promptly and to expedite the completion of the survey including the management of aircraft resources.
- 11) Any proposal should include a detailed list of deliverables, including maps, archive data, and any processing that is included in the proposal.
- 12) An all up cost per line kilometer to acquire the data set is requested. The lowest price proposal will not necessarily be accepted.

### **3.2 Data Processing Specifications**

State-of-the-art, high quality processing procedures to optimize data quality are required.

### **3.3 Deliverable Items**

Unless otherwise specified, digital data and summary maps of key results.

The following items will be deliverables to Geoscience BC, Suite 440 – 890 West Pender Street, Vancouver, BC Canada V6C 1J9:

- 1) Free air gravity results, presented as a 250m x 250 m grid after levelling and intersection corrections.
- 2) Bouguer corrected gravity incorporating a full Bouguer correction presented as a 250m x 250m grid.
- 3) Isostatically corrected gravity presented as a 250m x 250m grid.
- 4) Location and flight line map.
- 5) Digital Elevation map.
- 6) Flight and Instrument altitude map.
- 7) Final logistics and processing report to accompany maps and digital data. This report will contain information on processing strategy, testing and selection of final processing parameters. Two (2) print copies and one digital copy in PDF format. This must include the following:
  - i. the name and location of the survey;
  - ii. a report number supplied by Geoscience BC
  - iii. the name and address of the contractor, the phone and fax numbers of the company, the date of the survey;
  - iv. a list of contents;
  - v. details of individual processing steps applied; and

- vi. a summary of specific problems encountered during processing and solutions developed.
- 8) Geosoft format database with raw and corrected gravity results along flight lines, the corrected results to be consistent with the gridded results, including:
- i. Location information for the survey data, with actual flight line data and the planned flight line, x,y,z coordinates;
  - ii. The corrections applied to the raw data. These will include the free air correction applied, and the simple Bouguer and terrain correction Bouguer corrections applied; and
  - iii. Coordinates are to be included in UTM NAD 83, Zone 10, Zone 11, and BC Lambert projection for all readings.

Note: for the grids and flight line maps there are to be both paper and digital deliverables. Paper and digital maps should be produced at 1:500000 scale for data in UTM zone 10 using Zone 10, and for data in Zone 11 using Zone 11. The digital grids should be produced in Geosoft format, and should be produced for the data set in its entirety using each of NAD 83 UTM Zone 10, NAD 83 UTM zone 11, and the province wide BC Lambert projection systems (i.e. there should be complete sets of digital grids of the data in UTM zone 10, again in UTM zone 11, and again in BC Lambert projection).

#### Field Data as provided by acquisition contractor

Daily progress reports and regular field data upload to ftp facilities for QA/QC

#### Processed Data as prepared by processing contractor

The processing contractor is required to supply sufficient information on the applied processing and selected parameters so that the standard processing flow can be reproduced.

#### Contractor to maintain a high standard of safe work practices

The contractor will demonstrate to the Geoscience BC a proactive and best practices standard of work place safety during the conduct of the survey.

### **3.4 Schedule**

Data acquisition and finalized data processing will be completed by December 15, 2009.

In addition, regular data uploads are required for QA/QC purposes on a secured, reliable FTP server during the conduct of the survey.

Daily and weekly progress reports are to be emailed to Geoscience BC Staff and designated consultants to track progress and issues. Monthly reports are to be supplied with the inclusion of budget tracking component.

## ***ANNEX “C”: EVALUATION CRITERIA AND CONTRACTOR SELECTION***

### **1. Evaluation Criteria**

This section details the methodology that will be employed for evaluation of the Bidder’s responses to the stated requirements of this RFP. The Bidder’s proposal will be evaluated in accordance with the following:

#### **1.1 Data Processing Proposal**

##### ***1.1.1 Data Processing***

Suitability and quality of the hardware, software and general data processing procedures to be used for this requirement, including subcontract work, if required.

##### ***1.1.2 Company and Personnel***

Competence of the contractor and any sub-contractor, which can be demonstrated by similar or related past work, sufficient back-up manpower and resources, experience and competence of the person in charge of the processing or other key personnel, understanding and recognition of the scope and objectives for the survey, and an understanding required to obtain optimum quality results with the resources available, management capability and proposed interaction with the other contractors and Geoscience BC personnel.

#### **1.2 Flow Through Benefits to British Columbia**

Flow through benefits to British Columbia based companies arising from the conduct of the survey, for example from fuel purchases, accommodation, aircraft leasing etc., will be a positive consideration. The contractor will be required to document such benefits.

#### **1.3 Acceptance Criteria**

Proposals for the processing contract will be evaluated according to items 1.1.1, 1.1.2. and 1.2 (above). Bidders evaluated as having major deficiencies in any of the above items will not be considered further.

### **2. Contractor Selection**

The potential contractor will likely be selected from those that meet the required technical standards on the basis of lowest overall price to Geoscience BC. Geoscience BC, however, reserves the right to select a potential contractor that offers a higher technical quality irrespective of price.

### **3. Follow-On Work**

At the discretion of Geoscience BC, contracts for subsequent phases of work may be considered by Geoscience BC on a directed basis to the same Contractor, subject to the results of this work, the Contractor’s satisfactory work performance, the availability of funding and program priorities. However, there is no implied commitment by Geoscience BC to proceed with any follow-up work.



## ***ANNEX “D”: CERTIFICATIONS***

To be considered responsive, proposals must contain the following certifications:

### **Legal Entity and Corporate Name**

Please provide a statement to certify whether the Bidder is a sole proprietorship, partnership or corporate entity, indicating the laws under which the partnership or corporate entity was registered or formed, together with the registered corporate name. Also provide a statement identifying the country where the controlling interest/ownership (name if applicable) of your organization is located.

Any resulting contract may be executed under the following corporate legal name and at the following place of business:

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Date: \_\_\_\_\_ Signature: \_\_\_\_\_ Print Name \_\_\_\_\_

for: \_\_\_\_\_ (Name of Proposing Party)

### **Availability and Status of Personnel**

The Bidder certifies that, should it be authorized to provide services under any contract resulting from this solicitation, the persons proposed in its Bid will be available to commence performance of the work within a reasonable time from contract award, or within the time specified herein, and will remain available to perform the work in relation to the fulfillment of this requirement.

If the Bidder has proposed any person in fulfillment of this requirement who is not an employee of the Bidder, the Bidder hereby certifies that it has written permission from such person (or the employer of such person) to propose the services of such person in relation to the work to be performed in fulfillment of this requirement and to submit such person's resume to the Contracting Authority.

During the Bid evaluation, the Bidder must upon the request of the Contracting Authority provide a copy of such written permission, in relation to any or all non-employees proposed. The Bidder agrees that failure to comply with such a request may lead to disqualification of the Bidder's proposal from further consideration.

Date: \_\_\_\_\_ Signature: \_\_\_\_\_ Print Name \_\_\_\_\_

for: \_\_\_\_\_ (Name of Proposing Party)

**Education/Experience Certification**

We certify that all statements made with regard to the education and the experience of individuals proposed for completing the subject work are accurate and factual, and we are aware that Geoscience BC reserves the right to verify any information provided in this regard and that untrue statements may result in the proposal being declared non-responsive.

Should a verification by Geoscience BC disclose untrue statements, Geoscience BC shall have the right to treat any contract resulting from the Bid as being in default and to terminate it accordingly. Failure to include this representation and warranty with the Bid by executing the signature block immediately following this paragraph shall render the Bid non-responsive.

Date: \_\_\_\_\_ Signature: \_\_\_\_\_ Print Name \_\_\_\_\_

for: \_\_\_\_\_ (Name of Proposing Party)

## ***ANNEX “E”: PREPARATION OF PROPOSALS***

### **1. General Comments**

- The proposal should be concise.
- Do not use filler pages and unnecessary attachments.
- Each proposal will be evaluated solely on its own merit.
- When preparing a proposal, you should do so in conjunction with the stated Evaluation and Selection Criteria (Annex “C”) against which your proposal will be evaluated.
- The restatement of the technical requirements with a statement to the effect of “Intent to Perform” does not reveal the Bidder’s understanding of the task nor an ability to carry it out.

### **2. Technical, Management and Price Proposals**

#### **2.1 Submission of Proposal**

The proposal must be submitted on or before the time stated on the first page of this RFP.

#### **2.2 Technical Proposal**

Your attention is drawn to Annex “C”, against which the technical aspects of the acquisition will be evaluated. General requirements, line lengths, technical specifications and deliverable items (including a minimum processing sequence) are described in Annex “B”.

The successful contractor will be invited to become involved in “fine tuning” the processing parameters to obtain optimal data. Your technical proposals should be concise and should address, but not necessarily be limited to, the following points:

Describe the data processing capabilities, including any specialised hardware or software likely to improve the quality of the data. Include the following details of the proposed processing sequence:

- a) A description of the work program which you intend to subcontract, if applicable.
- b) State your request or recommendations, if any, for deviations from the requirements; specify the reasons for such deviations.
- c) Identify the key personnel who will be assigned to these requirements, showing experience, education and qualifications and their participation in each task.
- d) Outline the facilities, background and experience of your organisation, particularly as they refer to these requirements. Include any technical literature or brochures.
- e) Identify any proprietary information that you propose to use in the project.

#### **2.3 Price Proposal**

The price proposals should consist of the following:

- a) Firm Price per line kilometre
- b) Sales Tax and duties: Various items in your cost proposal maybe subject to various taxes, customs duties, etc., and this charge must be included in the prices **with the exception of Goods and Services Tax (GST)**.
- c) Goods and Services Tax (GST): The GST is not to be included in the price quoted by the Bidder. The total amount of GST is to be shown separately.

## **2.4 Management Proposals**

Comprehensive Management Plans shall be submitted as part of the technical proposal. These Plans should address, but not necessarily be limited to the following points:

- a) Specify how you propose to control the management of the project and identify the project manager who will be responsible for overall control.
- b) Specify how you propose to control management of subcontracts, as applicable.

## **2.5 Method of Payment**

The final payment for processing the data shall be made after all deliverables specified in section 3.3 of Annex “B” have been received and accepted by the Project Leader.

The progress and final payments for the processing contract will only be made provided that:

- a) the final claim is accompanied by the final processing report;
- b) the final report is accepted by the Contracting Authority, and no deficiencies related to processing are identified in the deliverables; and
- c) the final claim is approved by Geoscience BC.

The processing contractor shall certify an original and three (3) copies of each claim and forward the original and two copies to Geoscience BC, and one copy to the Contracting Authority.