



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 253-2008

LABORATORY SERVICES FOR LANDFILLS

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 LABORATORY SERVICES FOR LANDFILLS

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, April 25, 2008.

B2.2 Bids determined by the Manager of Materials to have been received later than the Submission Deadline will not be accepted and will be returned upon request.

B2.3 The Contract Administrator or the Manager of Materials may extend the Submission Deadline by issuing an addendum at any time prior to the time and date specified in B2.1.

B3. SITE INVESTIGATION

B3.1 Further to C3.1, the Bidder may view the Site without making an appointment.

B3.2 The Bidder is advised that samples to be analysed may originate at any of the 34 closed landfills, and Brady Road active landfill.

B4. ENQUIRIES

B4.1 All enquiries shall be directed to the Contract Administrator identified in D4.1.

B4.2 If the Bidder finds errors, discrepancies or omissions in the Bid Opportunity, or is unsure of the meaning or intent of any provision therein, the Bidder shall promptly notify the Contract Administrator of the error, discrepancy or omission at least five (5) Business Days prior to the Submission Deadline.

B4.3 If the Bidder is unsure of the meaning or intent of any provision therein, the Bidder should request clarification as to the meaning or intent prior to the Submission Deadline.

B4.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator to all Bidders by issuing an addendum.

B4.5 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator only to the Bidder who made the enquiry.

B4.6 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B4 unless that response or interpretation is provided by the Contract Administrator in writing.

B5. ADDENDA

B5.1 The Contract Administrator may, at any time prior to the Submission Deadline, issue addenda correcting errors, discrepancies or omissions in the Bid Opportunity, or clarifying the meaning or intent of any provision therein.

B5.2 The Contract Administrator will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.

B5.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.

B5.2.2 The Bidder is responsible for ensuring that he has received all addenda and is advised to check the Materials Management Branch internet site for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.

B5.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 8 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

B6. SUBSTITUTES

B6.1 The Work is based on the Plant, Materials and methods specified in the Bid Opportunity.

B6.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.

B6.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least five (5) Business Days prior to the Submission Deadline.

B6.4 The Bidder shall ensure that any and all requests for approval of a substitute:

- (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the Plant, Material or method as either an approved equal or alternative;
- (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
- (c) identify any anticipated cost or time savings that may be associated with the substitute;
- (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the Contract;
- (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the Contract.

B6.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his sole discretion grant approval for the use of a substitute as an "approved equal" or as an "approved alternative", or may refuse to grant approval of the substitute.

B6.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, only to the Bidder who requested approval of the substitute.

B6.6.1 The Bidder requesting and obtaining the approval of a substitute shall be entirely responsible for disseminating information regarding the approval to any person or persons he wishes to inform.

B6.7 If the Contract Administrator approves a substitute as an "approved equal", any Bidder may use the approved equal in place of the specified item.

B6.8 If the Contract Administrator approves a substitute as an "approved alternative", any Bidder bidding that approved alternative may base his Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B14.

B6.9 No later claim by the Contractor for an addition to the Total Bid Price because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.

B7. BID SUBMISSION

- B7.1 The Bid shall consist of the following components:
- (a) Form A: Bid;
 - (b) Form B: Prices.
- B7.2 Further to B7.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B6.
- B7.3 All components of the Bid shall be fully completed or provided, and submitted by the Bidder no later than the Submission Deadline, with all required entries made clearly and completely, to constitute a responsive Bid.
- B7.4 Bidders are advised not to include any information/literature except as requested in accordance with B7.1.
- B7.5 Bidders are advised that inclusion of terms and conditions inconsistent with the Bid Opportunity document, including the General Conditions, may result in the Bid being determined to be non-responsive.
- B7.6 The Bid may be submitted by mail, courier or personal delivery, or by facsimile transmission.
- B7.7 If the Bid is submitted by mail, courier or personal delivery, it shall be enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address, and shall be submitted to:
- The City of Winnipeg
Corporate Finance Department
Materials Management Branch
185 King Street, Main Floor
Winnipeg MB R3B 1J1
- B7.7.1 Samples or other components of the Bid which cannot reasonably be enclosed in the envelope may be packaged separately, but shall be clearly marked with the Bid Opportunity number, the Bidder's name and address, and an indication that the contents are part of the Bidder's Bid Submission.
- B7.8 If the Bid is submitted by facsimile transmission, it shall be submitted to (204) 949-1178
- B7.8.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.
- B7.9 Bids submitted by internet electronic mail (e-mail) will not be accepted.

B8. BID

- B8.1 The Bidder shall complete Form A: Bid, making all required entries.
- B8.2 Paragraph 2 of Form A: Bid shall be completed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his own name, his name shall be inserted;
 - (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
 - (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
 - (d) if the Bidder is carrying on business under a name other than his own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.
- B8.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B8.2.

- B8.3 In Paragraph 3 of Form A: Bid, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.
- B8.4 Paragraph 10 of Form A: Bid shall be signed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his own name, it shall be signed by the Bidder;
 - (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
 - (c) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers and the corporate seal, if the corporation has one, should be affixed;
 - (d) if the Bidder is carrying on business under a name other than his own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.
- B8.4.1 The name and official capacity of all individuals signing Form A: Bid shall be printed below such signatures.
- B8.4.2 All signatures should be witnessed, except where a corporate seal has been affixed.
- B8.5 If a Bid is submitted jointly by two or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Bid and the Contract, when awarded, shall be both joint and several.

B9. PRICES

- B9.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.
- B9.1.1 Notwithstanding C11.1.1, prices on Form B: Prices shall not include the Goods and Services Tax (GST) or Manitoba Retail Sales Tax (MRST, also known as PST), which shall be extra where applicable.
- B9.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Bids.
- B9.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.

B10. QUALIFICATION

- B10.1 The Bidder shall:
- (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Bidder does not carry on business in Manitoba, in the jurisdiction where the Bidder does carry on business; and
 - (b) be financially capable of carrying out the terms of the Contract; and
 - (c) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.
- B10.2 The Bidder and any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
- (a) be responsible and not be suspended, debarred or in default of any obligations to the City a list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.

- B10.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
- (a) have successfully carried out work similar in nature, scope and value to the Work; and
 - (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and
 - (c) have a written workplace safety and health program, if required, pursuant to The Workplace Safety and Health Act (Manitoba);
- B10.4 The Bidder shall submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Bidder and of any proposed Subcontractor.
- B10.5 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

B11. OPENING OF BIDS AND RELEASE OF INFORMATION

- B11.1 Bids will not be opened publicly.
- B11.2 Following the Submission Deadline, the names of the Bidders and their total bid prices (unevaluated, and pending review and verification of conformance with requirements) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.
- B11.3 After award of Contract, the name(s) of the successful Bidder(s) and the Contract Amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.
- B11.4 The Bidder is advised that any information contained in any Bid may be released if required by City policy or procedures, by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law.

B12. IRREVOCABLE BID

- B12.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 9 of Form A: Bid.
- B12.2 The acceptance by the City of any Bid shall not release the Bids of the next two lowest evaluated responsive Bidders and these Bidders shall be bound by their Bids on such Work for the time period specified in Paragraph 9 of Form A: Bid.

B13. WITHDRAWAL OF BIDS

- B13.1 A Bidder may withdraw his Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.
- B13.1.1 Notwithstanding C22.5, the time and date of receipt of any notice withdrawing a Bid shall be the time and date of receipt as determined by the Manager of Materials.
- B13.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Bid or the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B13.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:
- (a) retain the Bid until after the Submission Deadline has elapsed;

- (b) open the Bid to identify the contact person named in Paragraph 3 of Form A: Bid and the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid; and
- (c) if the notice has been given by any one of the persons specified in B13.1.3(b), declare the Bid withdrawn.

B13.2 A Bidder who withdraws his Bid after the Submission Deadline but before his Bid has been released or has lapsed as provided for in B12.2 shall be liable for such damages as are imposed upon the Bidder by law and subject to such sanctions as the Chief Administrative Officer considers appropriate in the circumstances. The City, in such event, shall be entitled to all rights and remedies available to it at law.

B14. EVALUATION OF BIDS

B14.1 Award of the Contract shall be based on the following bid evaluation criteria:

- (a) compliance by the Bidder with the requirements of the Bid Opportunity (pass/fail);
- (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B10 (pass/fail);
- (c) Total Bid Price;
- (d) economic analysis of any approved alternative pursuant to B6.

B14.2 Further to B14.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements or minor informalities or irregularities if the interests of the City so require.

B14.3 Further to B14.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his Bid or in other information required to be submitted, that he is responsible and qualified.

B14.4 Further to B14.1(c), the Total Bid Price shall be the sum of the quantities multiplied by the unit prices for each item shown on Form B: Prices.

B14.4.1 If there is any discrepancy between the Total Bid Price written in figures, the Total Bid Price written in words and the sum of the quantities multiplied by the unit prices for each item, the sum of the quantities multiplied by the unit prices for each item shall take precedence.

B14.4.2 Further to B14.1(a), in the event that a unit price is not provided on Form B: Prices, the City will determine the unit price by dividing the Amount (extended price) by the approximate quantity, for the purposes of evaluation and payment.

B14.5 This Contract will be awarded as a whole.

B15. AWARD OF CONTRACT

B15.1 The City will give notice of the award of the Contract or will give notice that no award will be made.

B15.2 The City will have no obligation to award a Contract to a Bidder, even though one or all of the Bidders are determined to be responsible and qualified, and the Bids are determined to be responsive.

B15.2.1 Without limiting the generality of B15.2, the City will have no obligation to award a Contract where:

- (a) the prices exceed the available City funds for the Work;
- (b) the prices are materially in excess of the prices received for similar work in the past;
- (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with its own forces;

- (d) only one Bid is received; or
- (e) in the judgment of the Award Authority, the interests of the City would best be served by not awarding a Contract.

B15.3 Where an award of Contract is made by the City, the award shall be made to the responsible and qualified Bidder submitting the lowest evaluated responsive Bid.

B15.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his Bid upon written request to the Contract Administrator.

B15.4 Notwithstanding C4.1, the City will issue a purchase order to the successful Bidder in lieu of the execution of a Contract.

B15.5 The Contract Documents, as defined in C1.1(n), in their entirety shall be deemed to be incorporated in and to form a part of the purchase order notwithstanding that they are not necessarily attached to or accompany said purchase order.

PART C - GENERAL CONDITIONS

C0. GENERAL CONDITIONS

- C0.1 The *General Conditions for Supply of Services* (Revision 2007 04 12) are applicable to the Work of the Contract.
- C0.1.1 The *General Conditions for Supply of Services* are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.
- C0.2 A reference in the Bid Opportunity to a section, clause or subclause with the prefix “**C**” designates a section, clause or subclause in the *General Conditions for Supply of Services*.

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

D1.1 In addition to the *General Conditions for Supply of Services*, these Supplemental Conditions are applicable to the Work of the Contract.

D2. SCOPE OF WORK

D2.1 The Work to be done under the Contract shall consist of laboratory services for various samples collected at landfills for the period starting from award of contract to April 30, 2013. The City intends to award this contract by May 1, 2008.

D2.2 The major components of the Work are as follows:

- (a) Analyse samples provided in accordance with the required parameters;
- (b) Provide analytical results to the Contract Administrator;
- (c) Provide sample bottles to the Contract Administrator, and provide a drop off location for samples within Winnipeg.

D2.3 The Work shall be done on an "as required" basis during the term of the Contract.

D2.3.1 The type and quantity of Work to be performed under this Contract shall be as authorized from time to time by the Contract Administrator and/or Users.

D2.3.2 Notwithstanding C7.4, the City shall have no obligation under the Contract to purchase any quantity of any item in excess of its actual operational requirements.

D3. DEFINITIONS

D3.1 When used in this Bid Opportunity:

- (a) "**User**" means a person, department or other administrative unit of the City authorized by the Contract Administrator to order Work under this Contract;
- (b) "**ASR**" means auto shredder residue;
- (c) "**CGSB**" means Canadian General Standards Board;
- (d) "**TCLP**" means Toxicity Characteristic Leaching Procedure.

D4. CONTRACT ADMINISTRATOR

D4.1 The Contract Administrator is:

Chris Kozak
Landfill Environmental Technologist
111-1199 Pacific Avenue
Winnipeg, MB
R3E 3S8

Telephone No. (204) 986.2384

Facsimile No. (204) 774.6729

D4.2 At the pre-commencement meeting, the Contract Administrator will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.

D5. CONTRACTOR'S SUPERVISOR

- D5.1 Further to C6.19, the Contractor shall employ and keep on the Work, at all times during the performance of the Work, a competent supervisor and assistants, if necessary, acceptable to the Contract Administrator. The supervisor shall represent the Contractor on the Site. The supervisor shall not be replaced without the prior consent of the Contract Administrator unless the supervisor proves to be unsatisfactory to the Contractor and ceases to be in his employ.
- D5.2 Before commencement of Work, the Contractor shall identify his designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.
- D5.2.1 Further to C5.5 Contract Administrator may give instructions or orders to the Contractor's supervisor and such instructions or orders shall be deemed to have been given to the Contractor.

SUBMISSIONS

D6. AUTHORITY TO CARRY ON BUSINESS

- D6.1 The Contractor shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

D7. INSURANCE

- D7.1 The Contractor shall provide and maintain the following insurance coverage:
- (a) commercial general liability insurance in the amount of at least two million dollars (\$2,000,000) inclusive, with The City of Winnipeg added as an additional insured; said commercial general liability insurance to include a cross-liability clause (otherwise known as Severability of Interest), contractual liability, non-owned automobile liability and products and completed operations cover, to remain in place at all times during the performance of the Work and throughout the warranty period;
 - (b) professional liability or Errors and Omissions liability insurance in the amount of at least one million dollars (\$1,000,000) per claim to remain in place at all times during the performance of the Work and throughout the warranty period;
 - (c) if required, automobile liability insurance for owned automobiles used for or in connection with the Work in the amount of at least two millions dollars (\$2,000,000) ; said insurance to remain in place at times during the performance of the Work;
- D7.2 Deductibles shall be borne by the Contractor.
- D7.3 The Contractor shall provide the Contract Administrator with a certificate or certificates of insurance at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than seven (7) Calendar Days from notification of the award of Contract.
- D7.4 The Contractor shall not cancel, or cause any such policy or policies to lapse without a minimum thirty (30) days prior written notice to the City.
- D7.5 The Contractor shall provide written notice to the City of any material changes to their policies within thirty (30) days of the change taking effect.
- D7.6 The City shall have the right to alter the limits and/or coverages as reasonably required from time to time during the continuance of this agreement.

CONTROL OF WORK

D8. COMMENCEMENT

D8.1 The Contractor shall not commence any Work until he is in receipt of a notice of award from the City authorizing the commencement of the Work.

D9. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

D9.1 Further to C6.23, the Contractor shall be the Prime Contractor and shall serve as, and have the duties of the Prime Contractor in accordance with The Workplace Safety and Health Act (Manitoba).

D10. ORDERS

D10.1 The Contractor shall provide a local Winnipeg telephone number or a toll-free telephone number at which orders for service may be placed.

D11. RECORDS

D11.1 The Contractor shall keep detailed records of the services supplied under the Contract.

D11.2 The Contractor shall record, as a minimum, for each item listed on Form B: Prices:

- (a) user name(s) and addresses;
- (b) order date(s);
- (c) service date(s); and
- (d) description and quantity of services provided.

D11.3 The Contractor shall provide the Contract Administrator with a copy of the records upon request within fifteen (15) Calendar Days of the request from the Contract Administrator.

MEASUREMENT AND PAYMENT

D12. INVOICES

D12.1 Further to C11, the Contractor shall submit a monthly invoice for the Work performed for all work done in the previous calendar month.

D12.2 Further to C22.2, the Contractor shall submit invoices to the locations designated at the time of ordering.

D12.3 Invoices must clearly indicate, as a minimum:

- (a) the City's order number;
- (b) date(s) of provision of services;
- (c) location at which service was provided;
- (d) type and quantity of services provided;
- (e) the amount payable with GST and MRST shown as separate amounts; and
- (f) the Contractor's GST registration number.

D12.4 The City will bear no responsibility for delays in approval of invoices which are improperly submitted.

D13. PAYMENT

- D13.1 Further to C11, payment shall be in Canadian funds net thirty (30) Calendar Days after receipt and approval of the Contractor's invoice.
- D13.2 Further to C11, effective January 1, 2007 the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

D14. ANNUAL REVIEW- INFLATIONARY ADJUSTMENT

- D14.1 The unit prices specified on Form B: Prices will be adjusted on the first Contract anniversary date, and subsequent anniversary dates based on the percentage increase or decrease in the unit prices for the Contract year, based on eighty five percent (85%) of the All-items Consumer Price Index (CPI) for Winnipeg, normally referred to by Statistics Canada as Table 326-0001. The calculation for adjustment will be based on May 1 of the previous year to May 1 of the current year. The first inflationary adjustment shall occur on May 1, 2009.
- D14.2 The index above will be those prepared by Statistics Canada. Since the index may not be available from Statistics Canada until some time after the adjustment date, the amount of the adjustment will be retroactive to the adjustment date.

D15. PURCHASING CARD

- D15.1 The Contractor shall allow Users to charge items to their purchasing cards at no extra cost.

WARRANTY

D16. WARRANTY

- D16.1 Warranty is as stated in C12.

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

- E1.1 These Specifications shall apply to the Work.
- E1.2 The following are applicable to the Work:
- E1.3 Bidders are reminded that requests for approval of substitutes as an approved equal or an approved alternative shall be made in accordance with B6.

E2. SERVICES

- E2.1 The Contractor shall provide laboratory services in accordance with the requirements hereinafter specified.
- E2.2 The Contractor shall provide adequate sampling bottles at no additional charge, delivered to the Contract Administrator.
- E2.3 The Contractor shall provide a sample drop-off location within Winnipeg for the Contract Administrator or his representative to deliver the samples
- E2.4 **Item No. 1** – Auto Shredder Residue samples are obtained from ASR delivered to Brady Road landfill. Auto Shredder Residue shall be analysed for the following parameters:
- (a) Analysis:
- (i) Petroleum Hydrocarbons in Solid (CCME);
 - (ii) Metals in LEP Leachate (CGSB or TCLP Method),
 - (iii) Moisture content of Solid Material,
 - (iv) Ignitability, Leachate Extraction Procedure,
 - (v) Polychlorinated Biphenyls in Solid Samples, Mercury in Soil or Solids,
- (b) Matrix: Soil, Leachate;

Leachate Analyses		
Parameter	Units	MDL
Moisture	%	0.01
Weight of sample extracted	g	-
Initial pH	pH units	-
Volume 0.5 N acetic acid added	mL	-
Final pH	pH units	-
Copper Cu	mg/L	0.04
Iron Fe	mg/L	2
Aluminum Al	mg/L	0.2
Antimony Sb	mg/L	0.04
Arsenic As	mg/L	0.04
Barium Ba	mg/L	0.04
Beryllium Be	mg/L	0.04
Bismuth Bi	mg/L	0.04
Boron B	mg/L	2
Cadmium Cd	mg/L	0.008
Calcium Ca	mg/L	2
Chromium Cr	mg/L	0.004

Leachate Analyses (continued)		
Parameter	Units	MDL
Cobalt Co	mg/L	0.004
Lead Pb	mg/L	0.004
Lithium Li	mg/L	0.004
Magnesium Mg	mg/L	2
Manganese Mn	mg/L	0.004
Molybdenum Mo	mg/L	0.004
Nickel Ni	mg/L	0.004
Phosphorus P	mg/L	0.4
Potassium K	mg/L	0.4
Selenium Se	mg/L	0.004
Silicon Si	mg/L	2
Silver Ag	mg/L	0.004
Sodium Na	mg/L	2
Strontium Sr	mg/L	0.04
Tellurium Te	mg/L	0.04
Thallium Tl	mg/L	0.004
Thorium Th	mg/L	0.02
Tin Sn	mg/L	0.04
Titanium Ti	mg/L	0.04
Uranium U	mg/L	0.02
Vanadium V	mg/L	0.04
Zinc Zn	mg/L	0.2
Zirconium Zr	mg/L	0.4

SOLID Analyses		
Parameter	Units	MDL
Moisture	%	0.1
Polychlorinated Biphenyls		
Total PCB	ug/g	0.03
Ignitability		
Ignitability	degrees C	>100
Metals Analysis		
Mercury Hg	ug/g	0.001
Petroleum Hydrocarbons		
Benzene	ug/g	0.005
Ethylbenzene	ug/g	0.018
Toluene	ug/g	0.02
meta- and para-Xylenes	ug/g	0.01
ortho-Xylene	ug/g	0.01
C6-C10 uncorrected	ug/g	5
C6-C10 corrected	ug/g	5
C10-C16 uncorrected	ug/g	5
C16-C34 uncorrected	ug/g	5
C34-C50	ug/g	5

E2.5 **Item No. 2** – Priority Pollutant samples are obtained from leachate manholes at Brady Road Landfill, Summit Road Landfill, Westview Landfill and Kilcona Landfill. Priority Pollutants test shall be analysed for the following parameters:

Analysis: TOTAL CYANIDE		
Matrix: LIQUID		
Method Reference: EPA 335.3, CAM SOP-00457		
Parameters	MDL	Units
Total Cyanide (CN)	0.005	mg/l

Analysis: PETROLEUM HYDRO. CCME F1 & BTEX IN WATER		
Matrix: Water		
Method Reference: CCME CWS, CAM SOP-00315		
Parameters	MDL	Units
Benzene	0.2	ug/l
Toluene	0.2	ug/l
Ethylbenzene	0.2	ug/l
o-Xylene	0.2	ug/l
p+m-Xylene	0.4	ug/l
Total Xylenes	0.4	ug/l
F1 (C6-C10)	100	ug/l
F1 (C6-C10) - BTEX	100	ug/l

Analysis: PETROLEUM HYDROCARBONS F2-F4 IN WATER		
Matrix: Water		
Method Reference: CCME Hydrocarbons, Hydrocarbons Gravimetric		
Parameters	MDL	Units
F2 (C10-C16 Hydrocarbons)	100	ug/l
F3 (C16-C34 Hydrocarbons)	100	ug/l
F4 (C34-C50 Hydrocarbons)	100	ug/l

Analysis: PETROLEUM HYDROCARBONS F4G IN WATER		
Matrix: Water		
Method Reference: CCME Hydrocarbons, CAM SOP-00316		
Parameters	MDL	Units
F4G (Grav. Heavy Hydrocarbons)	800	ug/l

Analysis: MERCURY IN WATER BY CVAA		
Matrix: LIQUID		
Method Reference: EPA 7470, CAM SOP-00453		
Parameters	MDL	Units
Mercury (Hg)	0.0001	mg/l

Analysis: ICP METALS ANALYSIS IN UNUSUAL MATRICES		
Matrix: LIQUID		
Method Reference: ICP		
Parameters	MDL	Units
Aluminum (Al)	0.1	mg/l
Chromium (Cr)	0.01	mg/l
Cobalt (Co)	0.02	mg/l
Copper (Cu)	0.02	mg/l
Iron (Fe)	0.02	mg/l
Lead (Pb)	0.05	mg/l
Lithium (Li)	0.05	mg/l
Magnesium (Mg)	0.05	mg/l
Manganese (Mn)	0.01	mg/l
Antimony (Sb)	0.2	mg/l
Molybdenum (Mo)	0.02	mg/l
Nickel (Ni)	0.05	mg/l
Phosphorus (P)	0.1	mg/l
Potassium (K)	1	mg/l
Selenium (Se)	0.2	mg/l
Silicon (Si)	0.2	mg/l
Silver (Ag)	0.01	mg/l
Sodium (Na)	0.5	mg/l
Strontium (Sr)	0.01	mg/l
Sulphur (S)	0.5	mg/l
Arsenic (As)	0.2	mg/l
Thallium (Tl)	0.2	mg/l
Tin (Sn)	0.2	mg/l
Titanium (Ti)	0.01	mg/l
Tungsten (W)	0.2	mg/l
Vanadium (V)	0.01	mg/l
Zinc (Zn)	0.01	mg/l
Zirconium (Zr)	0.01	mg/l
Barium (Ba)	0.02	mg/l
Beryllium (Be)	0.005	mg/l
Bismuth (Bi)	0.2	mg/l
Boron (B)	0.02	mg/l
Cadmium (Cd)	0.005	mg/l
Calcium (Ca)	0.05	mg/l

Analysis: TOTAL METALS ANALYSIS BY ICPMS		
Matrix: Water		
Method Reference: EPA 6020, CAM SOP-00447		
Parameters	MDL	Units
Aluminum (Al)	5	ug/l
Antimony (Sb)	0.5	ug/l
Arsenic (As)	1	ug/l
Barium (Ba)	5	ug/l
Beryllium (Be)	0.5	ug/l
Bismuth (Bi)	1	ug/l
Boron (B)	10	ug/l
Cadmium (Cd)	0.1	ug/l
Calcium (Ca)	200	ug/l
Chromium (Cr)	5	ug/l
Cobalt (Co)	0.5	ug/l
Copper (Cu)	1	ug/l
Iron (Fe)	100	ug/l
Lead (Pb)	0.5	ug/l
Lithium (Li)	5	ug/l
Magnesium (Mg)	50	ug/l
Manganese (Mn)	2	ug/l
Molybdenum (Mo)	1	ug/l
Nickel (Ni)	1	ug/l
Phosphorus (P)	100	ug/l
Potassium (K)	200	ug/l
Selenium (Se)	2	ug/l
Silicon (Si)	50	ug/l
Silver (Ag)	0.1	ug/l
Sodium (Na)	100	ug/l
Strontium (Sr)	1	ug/l
Tellurium (Te)	1	ug/l
Thallium (Tl)	0.05	ug/l
Thorium (Th)	1	ug/l
Tin (Sn)	1	ug/l
Titanium (Ti)	5	ug/l
Tungsten (W)	1	ug/l
Uranium (U)	0.1	ug/l
Vanadium (V)	1	ug/l
Zinc (Zn)	5	ug/l
Zirconium (Zr)	1	ug/l

Analysis: OC PESTICIDES (SELECTED) & PCB		
Matrix: LIQUID		
Method Reference: EPA 8081 modified, CAM SOP-00307		
Parameters	MDL	Units
Hexachloroethane	0.01	ug/l
Hexachlorobutadiene	0.009	ug/l
Hexachlorocyclopentadiene	0.02	ug/l
Aldrin + Dieldrin	0.005	ug/l
Aldrin	0.005	ug/l
a - BHC	0.005	ug/l
b - BHC	0.005	ug/l
d - BHC	0.005	ug/l
a - Chlordane	0.005	ug/l
g - Chlordane	0.005	ug/l
Chlordane (Total)	0.005	ug/l
o, p - DDD	0.005	ug/l
p, p - DDD	0.005	ug/l
o,p-DDD + p,p-DDD	0.005	ug/l
o, p - DDE	0.005	ug/l
p, p - DDE	0.005	ug/l
o,p-DDE + p,p-DDE	0.005	ug/l
o, p - DDT L	0.005	ug/l
p, p - DDT	0.005	ug/l
o,p-DDT + p,p-DDT	0.005	ug/l
DDT+ Metabolites	0.005	ug/l
Dieldrin	0.005	ug/l
Endosulfan I	0.005	ug/l
Endosulfan II	0.005	ug/l
Endosulfan sulfate	0.005	ug/l
Total Endosulfan	0.005	ug/l
Endrin	0.005	ug/l
Endrin aldehyde	0.005	ug/l
Endrin ketone	0.005	ug/l
Heptachlor	0.005	ug/l
Heptachlor epoxide	0.005	ug/l
Hexachlorobenzene	0.005	ug/l
Lindane	0.003	ug/l
Methoxychlor	0.014	ug/l
Mirex	0.005	ug/l
Octachlorostyrene	0.005	ug/l
Total PCB	0.1	ug/l
Aroclor 1016	0.05	ug/l
Aroclor 1221	0.1	ug/l
Aroclor 1232	0.05	ug/l

Analysis: OC PESTICIDES (SELECTED) & PCB		
Matrix: LIQUID		
Method Reference: EPA 8081 modified, CAM SOP-00307		
Parameters	MDL	Units
Aroclor 1242	0.05	ug/l
Aroclor 1248	0.05	ug/l
Aroclor 1254	0.05	ug/l
Aroclor 1260	0.05	ug/l
Toxaphene	0.2	ug/l

Analysis: PHENOXY ACID HERBICIDES		
Matrix: LIQUID		
Method Reference: EPA 8270 modified, CAM SOP-00330		
Parameters	MDL	Units
Dicamba 1 ug/L	1	ug/l
Picloram 5 ug/L	5	ug/l
MCPB 2 ug/L	2	ug/l
2,4-D (BEE) 2 ug/L	2	ug/l
MCP P 2 ug/L	2	ug/l
MCPA 2 ug/L	2	ug/l
2,4-DP (Dichlorprop) 1 ug/L	1	ug/l
2,4-D 1 ug/L	1	ug/l
2,4,5-TP (Silvex) 1 ug/L	1	ug/l
2,4,5-T 1 ug/L	1	ug/l
2,4-DB 1 ug/L	1	ug/l

Analysis: PHENOL (4AAP)		
Matrix: LIQUID		
Method Reference: EPA 9066, CAM SOP-00444		
Parameters	MDL	Units
Phenol-4AAP	0.001	mg/l

Analysis: VOLATILE ORGANIC COMPOUNDS IN WATER		
Matrix: LIQUID		
Method Reference: EPA 8260 modified, CAM SOP-00226		
Parameters	MDL	Units
Acetone (2-Propanone)	10	ug/l
Benzene	0.1	ug/l
Bromodichloromethane	0.1	ug/l
Bromoform	0.2	ug/l
Bromomethane	0.5	ug/l
Carbon Tetrachloride	0.1	ug/l
Chlorobenzene	0.1	ug/l
Chloroform	0.1	ug/l
Dibromochloromethane	0.2	ug/l
1,2-Dichlorobenzene	0.2	ug/l
1,3-DichlorobenzeneL	0.2	ug/l
1,4-Dichlorobenzene	0.2	ug/l
1,1-Dichloroethane	0.1	ug/l
1,2-Dichloroethane	0.1	ug/l
1,1-Dichloroethylene	0.1	ug/l
cis-1,2-Dichloroethylene	0.1	ug/l
trans-1,2-Dichloroethylene	0.1	ug/l
1,2-Dichloropropane	0.1	ug/l
cis-1,3-Dichloropropene	0.2	ug/l
trans-1,3-Dichloropropene	0.2	ug/l
Ethylbenzene	0.1	ug/l
Ethylene Dibromide	0.2	ug/l
Methylene Chloride(Dichloromethane)	0.5	ug/l
Methyl Isobutyl Ketone	5	ug/l
Methyl Ethyl Ketone (2-Butanone)	5	ug/l
Methyl t-butyl ether (MTBE)	0.2	ug/l
Styrene	0.1	ug/l
1,1,1,2-Tetrachloroethane	0.1	ug/l
1,1,2,2-Tetrachloroethane	0.2	ug/l
Tetrachloroethylene	0.1	ug/l
Toluene	0.2	ug/l
1,1,1-Trichloroethane	0.1	ug/l
1,1,2-Trichloroethane	0.2	ug/l
Trichloroethylene	0.1	ug/l
Vinyl Chloride	0.2	ug/l
p+m-Xylene	0.1	ug/l
o-Xylene	0.1	ug/l
Xylene (Total)	0.1	ug/l

- E2.6 **Item No. 3** – Water Quality samples are obtained from ground water test wells, leachate probes, and surface water adjacent to landfills. Water Quality shall be analysed for the following parameters :

Analysis: Microbiological Parameters in Water		
Matrix: Water		
Parameters	MDL	Units
E. coli	1	cfu/100ml
Fecal Coliform	1	cfu/100ml

Analysis: Anions in Water by Ion Chromatography		
Matrix: Water		
Parameters	MDL	Units
Chloride	2	mg/l
Sulfate	5	mg/l

E3. COMPLETION OF WORK

- E3.1 The Contractor shall complete the work within twenty business days of the receipt of each sample.
- E3.2 The Contractor shall provide the contract administrator with an electronic version of the test results in both Excel and PDF formats.