

154 Colonnade Road South  
Ottawa, Ontario  
Canada, K2E 7J5  
**Tel: (613) 226-7381**  
**Fax: (613) 226-6344**

August 31, 2012  
File: PE2734-LET.01

**Bassi Construction**  
2575 Del Zotto Drive  
Ottawa, Ontario  
K1T 3V6

Geotechnical Engineering  
Environmental Engineering  
Hydrogeology  
Geological Engineering  
Materials Testing  
Building Science  
Archeological Studies

Attention: **Mr. Rosario Lindia**

[www.patersongroup.ca](http://www.patersongroup.ca)

Subject: **Designated Substance Survey**  
**2781, 2791, and 2797 Baseline Road**  
**Ottawa**

Dear Sir,

Further to your request and authorization, Paterson Group (Paterson) conducted a Designated Substance Survey (DSS) at 2781, 2791 and 2797 Baseline Road in the City of Ottawa, Ontario. This letter report summarizes our findings and results of the designated substance survey.

## **1.0 BACKGROUND**

The subject site is situated on the north side of Baseline Road, at the northeast corner of Baseline Road and Morrison Street, in the City of Ottawa, Ontario. The subject buildings consist of three (3), two storey residential townhouse blocks. The buildings were all designed and constructed at the same time, using the same building materials. It is our understanding that the subject buildings are to be demolished in the near future, using heavy equipment from the exterior.

The purpose of this investigation was to identify designated substances in the subject buildings.

## **2.0 SITE INSPECTION AND OBSERVATIONS**

During the course of the site visit, a visual inspection for sources or materials containing the following designated substances: acrylonitrile, arsenic, asbestos, benzene, coke oven emissions, ethylene oxide, isocyanates, lead, mercury, silica, vinyl chloride, and the following substances: ozone depleting substances (ODSs) and polychlorinated biphenyls (PCBs) was carried out.

Building materials including buried services, floor levelling compounds, caulking and sealants, which have historically contained asbestos, were not included in the survey since they are generally inaccessible, used in a random fashion and have a low risk of asbestos fibre release.

### **Acrylonitrile**

Acrylonitrile is prescribed as a designated substance under Ontario Regulation (O.Reg.) 835 of the Occupational Health and Safety Act. It is a volatile, flammable liquid that is used to make many chemicals such as plastics, rubber and synthetic fibres. Acrylonitrile may be present in stable form in surface coatings (eg. paints), building material adhesives and plastics. Common adhesives, observed in the building include applications for vinyl floor tiles and mouldings. The above noted products are not considered to pose a concern provided they are not subjected to extreme heat, such as a torch. Exposure to acrylonitrile is unlikely and not suspected on the subject site.

### **Arsenic**

Arsenic is prescribed as a designated substance under O.Reg. 836 of the Occupational Health and Safety Act. Arsenic has many industrial uses such as hardening of copper and lead alloys and in older lead based paints. Similar to acrylonitrile, arsenic may also be present in stable form in building material adhesives and some metal alloys. Based on the limited quantity of potentially arsenic containing materials within the subject buildings, it is not expected that the arsenic concentration in the air will exceed its maximum allowable Time Weighted Average Exposure Value (TWAEV).

## **Asbestos**

Asbestos is prescribed as a designated substance under O.Reg. 837 of the Occupational Health and Safety Act. Asbestos-containing materials (ACMs) are defined under O. Reg. 278/05 of the Occupational Health and Safety Act as having a concentration of 0.5% or more by dry weight of fibrous asbestos (i.e. chrysotile, amosite, crocidolite and/or other amphiboles). Asbestos was used extensively in residential and commercial construction between 1930 and 1980. Based on the age of the dwellings, asbestos containing materials may have been used during renovations.

A total of twenty-six (26) bulk samples of potential asbestos containing materials were obtained from the subject buildings during the sampling event and were submitted to Paracel Laboratories in Ottawa, Ontario for analysis. The potential asbestos containing materials were analyzed to determine the presence, type and content of asbestos, as shown on the following tables. The sample locations can also be found in the tables. The laboratory certificates of analysis are appended to this letter.

| Table 1 - Summary of Asbestos Testing<br>2781, 2791 and 2797 Baseline Road<br>Former Residential Townhouse Blocks  |                        |   |                          |                 |
|--|------------------------|---|--------------------------|-----------------|
| Sample No.   | Description            | Location  | Fibrous Asbestos Content | Other Materials |
| DWJC1  | Drywall Joint Compound | 2781 - Unit 1, 1 <sup>st</sup> floor kitchen      | 1% Chrysotile            | 99% Non-Fibers  |
| DWJC2  |                        | 2781 - Unit 6, 1 <sup>st</sup> floor, living room | 1% Chrysotile            | 99% Non-Fibers  |
| DWJC3  |                        | 2791 - Unit 2, 1 <sup>st</sup> floor, living room | 1% Chrysotile            | 99% Non-Fibers  |
| DWJC4  |                        | 2791 - Unit 5, 1 <sup>st</sup> floor, hall        | 1% Chrysotile            | 99% Non-Fibers  |
| DWJC5  |                        | 2791 - Main hallway, 1 <sup>st</sup> floor        | 1% Chrysotile            | 99% Non-Fibers  |
| DWJC6  |                        | 2797 - Unit 12, 1 <sup>st</sup> floor closet      | 1% Chrysotile            | 99% Non-Fibers  |
| DWJC7  |                        | 2797 - Unit 10, 1 <sup>st</sup> floor hallway     | 1% Chrysotile            | 99% Non-Fibers  |
| STIP1  | Ceiling Stipple        | 2781 - Unit 1, 1 <sup>st</sup> floor kitchen      | 1% Chrysotile            | 99% Non-Fibers  |
| STIP2  |                        | 2781 - Unit 6, 1 <sup>st</sup> floor, living room | 1% Chrysotile            | 99% Non-Fibers  |
| STIP3  |                        | 2791 - Unit 2, 1 <sup>st</sup> floor, living room | 1% Chrysotile            | 99% Non-Fibers  |
| STIP4  |                        | 2791 - Unit 5, 1 <sup>st</sup> floor, hall        | 1% Chrysotile            | 99% Non-Fibers  |
| STIP5  |                        | 2797 - Unit 12, 1 <sup>st</sup> floor             | 1% Chrysotile            | 99% Non-Fibers  |
| STIP6  |                        | 2797 - Unit 9, 1 <sup>st</sup> floor              | 1% Chrysotile            | 99% Non-Fibers  |
| STIP7  |                        | 2797 - Unit 10, 1 <sup>st</sup> floor             | 1% Chrysotile            | 99% Non-Fibers  |
| Notes: <b>Bold</b> Results - Asbestos containing material as defined under O. Reg 278/05 as having a concentration of 0.5% or more by dry weight fibrous asbestos. |                        |   |                          |                 |

| Table 1 - Summary of Asbestos Testing<br>2781, 2791 and 2797 Baseline Road<br>Former Residential Townhouse Blocks  |  |  |  |   |
|--|--|--|--|---|
| Sample No.   | Description                                  | Location   | Fibrous Asbestos Content                   | Other Materials   |
| PAP1   | Paper Insulation                             | 2781 - 1 <sup>st</sup> floor hallway   | 40% Chrysotile                             | 40% Cellulose<br>20% Non-Fibers                         |
| PARG1  | Parging                                      | 2781 - 1 <sup>st</sup> floor hallway where copper piping goes through concrete block | 60% Chrysotile                             | 40% Non-Fibers  |
| PARG2  | Boiler Insulation                            | 2791 - Basement boiler room  | 8.85% Chrysotile                           | 10% Cellulose<br>8.85% Other Fibers<br>72.3% Non-Fibers |
| LIN1   | Linoleum Flooring                            | 2781 - unit 1, 1 <sup>st</sup> fl. Kitchen   | 10% Chrysotile                             | 85% Non-Fibers<br>5% Cellulose                          |
| LIN2   |  | 2781 - unit 1, 1 <sup>st</sup> fl. Kitchen   | Not analysed due to positive/stop analysis |   |
| LIN3   |  | 2781 - unit 1, 1 <sup>st</sup> fl. Kitchen   |  |   |
| VFT1   | Vinyl Floor Tiles (0.3 m x 0.3 m) Grey       | 2781 - unit 6, 1 <sup>st</sup> fl. Kitchen   | none                                       | 100% Non-Fibers   |
| VFT2   |  | 2781 - unit 6, 1 <sup>st</sup> fl. Kitchen   | none                                       | 100% Non-Fibers   |
| VFT3   |  | 2781 - unit 6, 1 <sup>st</sup> fl. Kitchen   | none                                       | 100% Non-Fibers   |
| SCT1   | Stick-on-Ceiling Tiles (0.3 m x 0.3 m) White | 2781 - 1 <sup>st</sup> floor, north entranceway                                      | none                                       | 80% Cellulose<br>20% Non-Fibers                         |
| SCT2   |  | 2781 - 1 <sup>st</sup> floor, north entranceway                                      | none                                       | 80% Cellulose<br>20% Non-Fibers                         |
| SCT3   |  | 2781 - 1 <sup>st</sup> floor, north entranceway                                      | none                                       | 80% Cellulose<br>20% Non-Fibers                         |
| Notes: <b>Bold</b> Results - Asbestos containing material as defined under O. Reg 278/05 as having a concentration of 0.5% or more by dry weight fibrous asbestos. |  |  |  |   |

It should be noted that the majority of the exterior wall and ceiling cavities were inspected at the time of the assessment. The insulation throughout the subject buildings was observed to be fibreglass.

### **Drywall Joint Compound**

Drywall was observed in each of the subject buildings. Seven (7) samples of drywall joint compound were collected and submitted for analysis. All of the samples were observed to contain **1% Chrysotile asbestos**. The drywall joint compound in the subject buildings is an ACM.

### **Ceiling Stipple**

Ceiling Stipple was observed in each of the subject buildings. Seven (7) samples of ceiling stipple were collected and submitted for analysis. All of the samples were observed to contain **1% Chrysotile asbestos**. As a result, the ceiling stipple in the subject buildings is an ACM.

### **Linoleum Flooring**

Linoleum flooring was observed in the kitchen of unit 1 in the building addressed 2781 Baseline Road. Three (3) samples were collected and submitted for analysis. Positive stop analysis was used to limit any unnecessary testing. The first sample was observed to contain **10% Chrysotile asbestos**. The linoleum flooring observed in the kitchen of unit 1 in the building addressed **2781 Baseline Road** is an ACM. It should be noted that this flooring was observed in two (2) other units throughout the subject buildings and not all units were inspected. It should be assumed to be an ACM where present.

### **Vinyl Floor Tiles**

Vinyl floor tiles were observed in the kitchen of unit 6 in the subject building addressed 2781 Baseline Road. Three (3) samples were collected and submitted for analysis. None of the samples submitted were observed to contain asbestos. The vinyl floor tiles resembling those observed in unit 6 in the building addressed 2781 Baseline Road are not considered an ACM.

### **Stick on Ceiling Tiles**

Stick on ceiling tiles were observed in the north entranceway to the building addressed 2781 Baseline Road. Three (3) samples were collected and submitted for analysis. None of the samples submitted were observed to contain asbestos. The stick on ceiling tiles in the subject buildings are not considered an ACM.

### **Paper Insulation**

Paper insulation was observed on piping above the suspended ceiling tiles in the main hallway of all the subject buildings. One (1) sample of the paper insulation was collected and submitted for analysis. The paper insulation was observed to contain **40% Chrysotile asbestos**. The paper insulation throughout the subject buildings is an ACM.

### **Parging**

Parging was observed where piping went through the concrete block walls that separate the main hallway from the apartment units. The parging was used as a fire-stop, only encasing the piping in a 100 mm diameter. One (1) sample of the parging was collected and submitted for analysis. The parging was observed to contain **60% Chrysotile asbestos**. The parging used in the aforementioned fashion throughout the subject buildings is an ACM.

### **Boiler Insulation**

One boiler was observed in each of the subject buildings. All of the boilers previously had asbestos containing boiler insulation on them. All of the boiler insulation has been removed from the boilers in each of the subject buildings with the exception of some residual insulation on the boiler in the building addressed 2791 Baseline Road. One (1) sample of the residual boiler insulation was collected and submitted for analysis. The insulation was observed to contain **40% Chrysotile asbestos**. The residual boiler insulation in the building addressed 2791 Baseline Road is an ACM.

### **Benzene**

Benzene is prescribed as a designated substance under O.Reg. 839 of the Occupational Health and Safety Act. Benzene is used in the manufacturing of many products including plastics, rubbers, resins and synthetic fibres. It is also used as a solvent in printing and paints as well as in petroleum products such as gasoline and diesel. Benzene may be present in older paints, sealants and roofing materials, some of which are present in the building.

Benzene is not considered to be a concern, since it typically vaporizes rapidly from most products shortly after manufacturing or application, however, the above noted materials should not be subjected to extreme heat without proper worker respiratory protection.

### **Coke Oven Emissions**

Coke oven emissions are prescribed as a designated substance under O.Reg. 840 of the Occupational Health and Safety Act. Coke Oven emissions are not typically found outside the metal extraction industry. No sources of coke oven emissions are suspected or were observed with respect to the subject buildings.

### **Ethylene Oxide**

Ethylene oxide is prescribed as a designated substance under Ontario Regulation 841 of the Occupational Health and Safety Act. Ethylene oxide is used in large volumes as a chemical intermediate in the manufacturing of many industrial products including textiles, detergents, foam, antifreeze, solvents and adhesives.

Based on the limited quantity of potential ethylene oxide containing materials within the subject buildings, ethylene oxide is not considered to pose a concern.

### **Isocyanates**

Isocyanates are prescribed as a designated substance under O.Reg. 842 of the Occupational Health and Safety Act. Isocyanates are the raw materials from which all polyurethane products are made. They are used widely in the manufacturing of foams, plastics, adhesives, synthetic fibres and coatings such as paints and varnishes, some of which are present in the subject buildings. Over time, isocyanates will volatilize out of these materials but will only be present in trace amounts and are not expected to reach hazardous air concentrations. As a result, isocyanates are not considered to pose a concern.

### **Lead**

Lead is prescribed as a designated substance under O.Reg. 843 of the Occupational Health and Safety Act. Lead may be present in older paints, plastics, lead caulking in bell joints for cast iron piping systems, lead solder in copper piping systems, electrical equipment and ceramics. Painted surfaces and copper piping were observed during the site visit.



Three (3) paint samples were obtained as possible lead containing materials. The samples were submitted to Paracel for lead content analysis. The potential lead containing materials were analyzed to determine the presence and content of lead, as shown on the following table. The sample locations can also be found in Table 2. The laboratory certificates of analysis are appended to this letter.

| Table 2 - Lead Content Determination Results          |             |        |  |                     |
|---|-------------|--------|--|---------------------|
| Sample/Location                                       | Description | Colour | Maximum Allowable Concentration (µg/g) | Lead Content (µg/g) |
| P1 - 2781 - unit 1, basement                          | Paint       | White  | 600                                    | 317                 |
| P2 - 2781 - main hallway                              |             | White  | 600                                    | 54                  |
| P3 - 2791 - unit 2, 1 <sup>st</sup> floor living room |             | White  | 600                                    | 270                 |

The paint samples tested do not exceed the maximum allowable concentration and are not considered to be lead based.

## Mercury

Mercury is prescribed as a designated substance under O.Reg. 844 of the Occupational Health and Safety Act. Mercury may be present in thermostats, barometers and hydrometers along with other laboratory measuring devices. It may also be present in older lead based paints (which were not identified) and many types of lights including fluorescent tubes and compact fluorescent bulbs (CFBs).

No potential sources of mercury were observed in the building with the exception of fluorescent light bulbs. Any mercury containing equipment must be removed prior to demolition and disposed of according to Ontario Regulation 347 as amended by O. Reg. 558.

## **Vinyl Chloride**

Vinyl chloride is prescribed as a designated substance under O.Reg. 846 of the Occupational Health and Safety Act. Vinyl chloride is the parent compound of polyvinyl chloride (PVC) which is used in many consumer and industrial plastic products. It is also used extensively in the glass, rubber and paper industries. Vinyl chloride may be present, in stable form, in pipes, plastics, vinyls and interior finishes such as paints and varnishes throughout the building. The health hazard associated with vinyl chloride comes primarily from the inhalation of fumes.

In most applications vinyl chloride is considered to be stable as long as it is not subjected to extreme heat. As a result, vinyl chloride is not expected to be a concern as long as materials are not subjected to extreme heat.

## **Silica**

Silica is prescribed as a designated substance under O.Reg. 845 of the Occupational Health and Safety Act. Silica or silicon dioxide is the basic component of sand, quartz and granite rock. Silica is expected to be present in the cast-in-place concrete, concrete blocks and mortar. It may also be present in ceramic tiles. Typical procedures including wetting materials prior to, and during, any demolition activities are required to control dust.

## **Ozone Depleting Substances (ODSs)**

Potential ODS containing equipment present on site included fire extinguishers, air conditioners and refrigerators. The above noted appliances should be decommissioned by certified personnel.

## **Polychlorinated Biphenyls (PCBs)**

Fluorescent light ballasts manufactured prior to 1980 may contain PCBs, however, it is expected that most, if not all of the light ballasts, have been replaced with new non-PCB containing ballasts by this time. No concerns with respect to PCBs were noted at the time of the site inspection.

### **3.0 SURVEY SUMMARY AND RECOMMENDATIONS**

The possible presence of limited quantities of acrylonitrile, arsenic, benzene, ethylene oxide, isocyanates, mercury, lead and silica in the aforementioned building materials do not pose a concern during the demolition of the subject buildings.

It is understood that the subject buildings will be demolished using heavy equipment. As a result, the risk of exposure to workers is considered to be very negligible. Regardless, efforts should be made to minimize dust creation during the demolition process.

#### **Mercury**

Mercury is suspected to be present within the fluorescent lights tubes and thermostats in the subject buildings. Mercury within light fixtures and thermostats poses no risk to occupants provided the containers remain intact and undisturbed. These devices must be removed prior to demolition and disposed of according to O.Reg. 347/558.

#### **Ozone Depleting Substances (ODS)**

The potential ODS containing equipment observed throughout the buildings was associated with fire extinguishers, air conditioners and refrigerators. Any maintenance or disposal of potential ODS containing equipment should be done by certified personnel.

#### **Asbestos**

Based on observations made during the testing program, combined with analytical test results, the following ACMs were identified in the residential townhouse blocks:

- ☐ **The drywall joint compound throughout the subject buildings**
- ☐ **The ceiling stipple throughout the subject buildings**
- ☐ **All linoleum flooring throughout the subject buildings similar to the pattern observed in the kitchen of unit 1 in the building addressed 2781 Baseline Road**
- ☐ **The paper insulation on the piping throughout the subject buildings**
- ☐ **The parging used where piping goes through concrete blocks throughout the subject buildings**
- ☐ **The boiler insulation on the boiler in the building addressed 2791 Baseline Road.**

The aforementioned asbestos containing materials were observed to be in good condition at the time of the assessment.

The removal, disturbance or encapsulation of identified ACMs throughout the buildings must be done in accordance with the procedures outlined in Ontario Regulation 278/05. The ACMs must be removed by a contractor specialized in this type of work prior to large scale demolition activity. It is our opinion that the aforementioned ACMs can be removed using Type I and II procedures with the exception of the ceiling stipple, which will require Type III. The drywall joint compound and ceiling stipple (if removed in bulk along with the drywall), will not require special disposal as an ACM.

A full copy of Ontario Regulation 278/05 made under the Occupational Health and Safety Act can be found at [www.e-laws.gov.on.ca/html/regs/english/elaws\\_regs\\_050278\\_e.htm](http://www.e-laws.gov.on.ca/html/regs/english/elaws_regs_050278_e.htm).

## 4.0 STATEMENT OF LIMITATIONS

A designated substance survey was completed at 2781, 2791 and 2797 Baseline Road, in the City of Ottawa, Ontario. The results of the survey are based on our visual observations made at the time of the site visit. It should be noted that buried services were not observed during the investigation.

This report was prepared for the sole use of Bassi Construction. Permission and notification from Bassi Construction and this firm will be required to release this report to any other party.

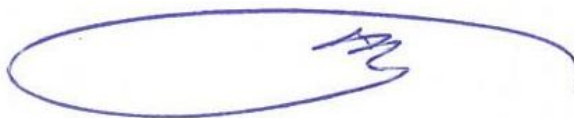
Should any conditions be encountered at the subject site that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

We trust that this submission will satisfy your present requirements. If you have any questions regarding this report, please contact our office.

### Paterson Group Inc.



Tyler Robinson, B.Sc.



Mark S. D'Arcy, P.Eng.

### Report Distribution:

- ☐ Bassi Construction (3 hard copies and 1 pdf)
- ☐ Paterson Group Inc. (1 copy)

### Attachments:

- ☐ Laboratory Certificates of Analysis

## ***Certificate of Analysis***

### **Paterson Group Consulting Engineers**

154 Colonnade Road South

Nepean, ON K2E 7J5

Attn: Tyler Robinson

Phone: (613) 226-7381

Fax: (613) 226-6344

Client PO: 13137

Project: PE2734

Custody: 95472, 95139, 95132

Report Date: 22-Aug-2012

Order Date: 17-Aug-2012

**Order #: 1233267**

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

| Paracel ID | Client ID |            |      |
|------------|-----------|------------|------|
| 1233267-01 | DWJC1     | 1233267-24 | SCT1 |
| 1233267-02 | DWJC2     | 1233267-25 | SCT2 |
| 1233267-03 | DWJC3     | 1233267-26 | SCT3 |
| 1233267-04 | DWJC4     |            |      |
| 1233267-05 | DWJC5     |            |      |
| 1233267-06 | DWJC6     |            |      |
| 1233267-07 | DWJC7     |            |      |
| 1233267-08 | LIN1      |            |      |
| 1233267-09 | LIN2      |            |      |
| 1233267-10 | LIN3      |            |      |
| 1233267-11 | STIP1     |            |      |
| 1233267-12 | STIP2     |            |      |
| 1233267-13 | STIP3     |            |      |
| 1233267-14 | STIP4     |            |      |
| 1233267-15 | STIP5     |            |      |
| 1233267-16 | STIP6     |            |      |
| 1233267-17 | STIP7     |            |      |
| 1233267-18 | VFT1      |            |      |
| 1233267-19 | VFT2      |            |      |
| 1233267-20 | VFT3      |            |      |
| 1233267-21 | PAP1      |            |      |
| 1233267-22 | PARG1     |            |      |
| 1233267-23 | PARG2     |            |      |

Approved By:



Heather S.H. McGregor, BSc  
Laboratory Director - Microbiology

Any use of these results implies your agreement that our total liability in connection with this work, however arising shall be limited to the amount paid by you for this work, and that our employees or agents shall not under circumstances be liable to you in connection with this work

**Client:** Paterson Group Consulting Engineers  
154 Colonnade Road South  
Nepean, ON K2E 7J5

**Attn:** Tyler Robinson  
Tel: (613) 226-7381  
Fax: (613) 226-6344

**Project:** PE2734  
**Paracel Report No.:** 1233267

**Received Date:** 17-Aug-12  
**Report Date:** 22-Aug-12

**Asbestos by PLM \*\*MDL - 0.5%\*\***

| Paracel I.D. | Sample Date | Layers Analyzed    | Colour     | Description | Asbestos Detected: | Material Identification | % Content |
|--------------|-------------|--------------------|------------|-------------|--------------------|-------------------------|-----------|
| 1233267-01   | 16-Aug-12   | sample homogenized | Grey       | DJC         | Yes                | Client ID: DWJC1        |           |
|              |             |                    |            |             |                    | Chrysotile              | 1         |
|              |             |                    |            |             |                    | Non-Fibers              | 99        |
| 1233267-02   | 16-Aug-12   | sample homogenized | Grey       | DJC         | Yes                | Client ID: DWJC2        |           |
|              |             |                    |            |             |                    | Chrysotile              | 1         |
|              |             |                    |            |             |                    | Non-Fibers              | 99        |
| 1233267-03   | 16-Aug-12   | sample homogenized | Grey       | DJC         | Yes                | Client ID: DWJC3        |           |
|              |             |                    |            |             |                    | Chrysotile              | 1         |
|              |             |                    |            |             |                    | Non-Fibers              | 99        |
| 1233267-04   | 16-Aug-12   | sample homogenized | Grey       | DJC         | Yes                | Client ID: DWJC4        |           |
|              |             |                    |            |             |                    | Chrysotile              | 1         |
|              |             |                    |            |             |                    | Non-Fibers              | 99        |
| 1233267-05   | 16-Aug-12   | sample homogenized | Grey       | DJC         | Yes                | Client ID: DWJC5        |           |
|              |             |                    |            |             |                    | Chrysotile              | 1         |
|              |             |                    |            |             |                    | Non-Fibers              | 99        |
| 1233267-06   | 16-Aug-12   | sample homogenized | Grey       | DJC         | Yes                | Client ID: DWJC6        |           |
|              |             |                    |            |             |                    | Chrysotile              | 1         |
|              |             |                    |            |             |                    | Non-Fibers              | 99        |
| 1233267-07   | 16-Aug-12   | sample homogenized | Grey       | DJC         | Yes                | Client ID: DWJC7        |           |
|              |             |                    |            |             |                    | Chrysotile              | 1         |
|              |             |                    |            |             |                    | Non-Fibers              | 99        |
| 1233267-08   | 16-Aug-12   | sample homogenized | Brown/Grey | Linoleum    | Yes                | Client ID: LIN1         |           |
|              |             |                    |            |             |                    | Chrysotile              | 10        |
|              |             |                    |            |             |                    | Cellulose               | 5         |
|              |             |                    |            |             |                    | Non-Fibers              | 85        |
| 1233267-09   | 16-Aug-12   |                    |            |             |                    | Client ID: LIN2         |           |
|              |             |                    |            |             |                    | not analyzed            |           |
| 1233267-10   | 16-Aug-12   |                    |            |             |                    | Client ID: LIN3         |           |
|              |             |                    |            |             |                    | not analyzed            |           |

P: 1-800-749-1947  
E: PARACEL@PARACELLABS.COM  
WWW.PARACELLABS.COM

**OTTAWA**  
300-2319 St. Laurent Blvd.  
Ottawa, ON K1G 4J8  
**MISSISSAUGA**  
6645 Kitimat Rd. Unit #27  
Mississauga, ON L5N 6J3

**NIAGARA FALLS**  
5415 Morning Glory Crt.  
Niagara Falls, ON L2J 0A3  
**SARNIA**  
123 Christina St. N.  
Sarnia, ON N7T 5T7

**Client:** Paterson Group Consulting Engineers  
154 Colonnade Road South  
Nepean, ON K2E 7J5

**Attn:** Tyler Robinson  
Tel: (613) 226-7381  
Fax: (613) 226-6344

**Project:** PE2734  
**Parcel Report No.:** 1233267

**Received Date:** 17-Aug-12  
**Report Date:** 22-Aug-12

**Asbestos by PLM \*\*MDL - 0.5%\*\***

| Parcel I.D. | Sample Date | Layers Analyzed    | Colour | Description      | Asbestos Detected: | Material Identification | % Content |
|-------------|-------------|--------------------|--------|------------------|--------------------|-------------------------|-----------|
| 1233267-11  | 16-Aug-12   | sample homogenized | Beige  | Stipple          | Yes                | Client ID: STIP1        |           |
|             |             |                    |        |                  |                    | Chrysotile              | 1         |
|             |             |                    |        |                  |                    | Non-Fibers              | 99        |
| 1233267-12  | 16-Aug-12   | sample homogenized | Beige  | Stipple          | Yes                | Client ID: STIP2        |           |
|             |             |                    |        |                  |                    | Chrysotile              | 1         |
|             |             |                    |        |                  |                    | Non-Fibers              | 99        |
| 1233267-13  | 16-Aug-12   | sample homogenized | Beige  | Stipple          | Yes                | Client ID: STIP3        |           |
|             |             |                    |        |                  |                    | Chrysotile              | 1         |
|             |             |                    |        |                  |                    | Non-Fibers              | 99        |
| 1233267-14  | 16-Aug-12   | sample homogenized | Beige  | Stipple          | Yes                | Client ID: STIP4        |           |
|             |             |                    |        |                  |                    | Chrysotile              | 1         |
|             |             |                    |        |                  |                    | Non-Fibers              | 99        |
| 1233267-15  | 16-Aug-12   | sample homogenized | Beige  | Stipple          | Yes                | Client ID: STIP5        |           |
|             |             |                    |        |                  |                    | Chrysotile              | 1         |
|             |             |                    |        |                  |                    | Non-Fibers              | 99        |
| 1233267-16  | 16-Aug-12   | sample homogenized | Beige  | Stipple          | Yes                | Client ID: STIP6        |           |
|             |             |                    |        |                  |                    | Chrysotile              | 1         |
|             |             |                    |        |                  |                    | Non-Fibers              | 99        |
| 1233267-17  | 16-Aug-12   | sample homogenized | Beige  | Stipple          | Yes                | Client ID: STIP7        |           |
|             |             |                    |        |                  |                    | Chrysotile              | 1         |
|             |             |                    |        |                  |                    | Non-Fibers              | 99        |
| 1233267-18  | 16-Aug-12   | sample homogenized | Grey   | Vinyl Floor Tile | No                 | Client ID: VFT1         | [AS-PRE]  |
|             |             |                    |        |                  |                    | Non-Fibers              | 100       |
| 1233267-19  | 16-Aug-12   | sample homogenized | Grey   | Vinyl Floor Tile | No                 | Client ID: VFT2         | [AS-PRE]  |
|             |             |                    |        |                  |                    | Non-Fibers              | 100       |
| 1233267-20  | 16-Aug-12   | sample homogenized | Grey   | Vinyl Floor Tile | No                 | Client ID: VFT3         | [AS-PRE]  |
|             |             |                    |        |                  |                    | Non-Fibers              | 100       |
| 1233267-21  | 16-Aug-12   | sample homogenized | Grey   | Paper wrap       | Yes                | Client ID: PAP1         |           |
|             |             |                    |        |                  |                    | Chrysotile              | 40        |
|             |             |                    |        |                  |                    | Cellulose               | 40        |
|             |             |                    |        |                  |                    | Non-Fibers              | 20        |

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**NIAGARA FALLS**  
5415 Morning Glory Crt.  
Niagara Falls, ON L2J 0A3  
**SARNIA**  
123 Christina St. N.  
Sarnia, ON N7T 5T7

**Client:** Paterson Group Consulting Engineers  
154 Colonnade Road South  
Nepean, ON K2E 7J5

**Attn:** Tyler Robinson  
Tel: (613) 226-7381  
Fax: (613) 226-6344

**Project:** PE2734  
**Paracel Report No.:** 1233267

**Received Date:** 17-Aug-12  
**Report Date:** 22-Aug-12

### Asbestos by PLM \*\*MDL - 0.5%\*\*

| Paracel I.D. | Sample Date | Layers Analyzed    | Colour      | Description  | Asbestos Detected: | Material Identification | % Content |
|--------------|-------------|--------------------|-------------|--------------|--------------------|-------------------------|-----------|
| 1233267-22   | 16-Aug-12   | sample homogenized | Grey        | Parging      | Yes                | Client ID: PARG1        |           |
|              |             |                    |             |              |                    | Chrysotile              | 60        |
|              |             |                    |             |              |                    | Non-Fibers              | 40        |
| 1233267-23   | 16-Aug-12   | sample homogenized | Grey        | Parging      | Yes                | Client ID: PARG2        | [AS-PRE]  |
|              |             |                    |             |              |                    | Chrysotile              | 8.85      |
|              |             |                    |             |              |                    | Cellulose               | 10        |
|              |             |                    |             |              |                    | Non-Fibers              | 72.3      |
|              |             |                    |             |              |                    | Other fibers            | 8.85      |
| 1233267-24   | 16-Aug-12   | sample homogenized | Beige/White | Ceiling Tile | No                 | Client ID: SCT1         | [AS-PRE]  |
|              |             |                    |             |              |                    | Cellulose               | 80        |
|              |             |                    |             |              |                    | Non-Fibers              | 20        |
| 1233267-25   | 16-Aug-12   | sample homogenized | Beige/White | Ceiling Tile | No                 | Client ID: SCT2         | [AS-PRE]  |
|              |             |                    |             |              |                    | Cellulose               | 80        |
|              |             |                    |             |              |                    | Non-Fibers              | 20        |
| 1233267-26   | 16-Aug-12   | sample homogenized | Beige/White | Ceiling Tile | No                 | Client ID: SCT3         | [AS-PRE]  |
|              |             |                    |             |              |                    | Cellulose               | 80        |
|              |             |                    |             |              |                    | Non-Fibers              | 20        |

MMVF: Man Made Vitreous Fibers: Fiberglass, Mineral Wool, Rockwool, Glasswool

Analytes in bold indicate asbestos content which may include:

Actinolite, Amosite, Anthophyllite, Chrysotile, Crocidolite and/or Tremolite.

### Analysis Summary Table

| Analysis        | Method Reference/Description | Lab Location    | NVLAP Lab Code * | Analysis Date |
|-----------------|------------------------------|-----------------|------------------|---------------|
| Asbestos by PLM | by EPA 600/R-93/116          | Ottawa West Lab | 200812-0         | 17-Aug-12     |

\* Reference to the NVLAP term does not permit the user of this report to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

### Report Notes

AS-PRE Due to the difficult nature of the bulk sample (interfering fibers/binders), additional NOB preparation was required prior to analysis

LG-AS002 Asbestos - Not double bagged

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Sarnia, ON N7T 5T7



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|  |  |   |
|--|--|---|
| Client Name: <u>Paterson</u>                     | Project Reference: <u>PE2734</u>                 | TAT: <input checked="" type="checkbox"/> Regular   13 Day<br>  12 Day   1 Day<br>Date Required: _____ |
| Contact Name: <u>Tyler Robinson</u>              | Quote #  |   |
| Address: <u>154 Colonnade Rd.<br/>Ottawa, ON</u> | PO # <u>13137</u>                                |   |
| Telephone: <u>(613) 226-7381</u>                 | Email Address: <u>trobenson@patersongroup.ca</u> |   |

Criteria: [ ] O. Reg. 153/04 Table [ ] O. Reg. 153/11 (Current) Table [ ] RSC Filing [ ] O. Reg. 558/00 [ ] PWQO [ ] CCME [ ] SUB (Storm) [ ] SUB (Sanitary) Municipality: \_\_\_\_\_ [ ] Other: \_\_\_\_\_

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

Required Analyses

| Paracel Order Number:   |              | Matrix | Air Volume | # of Containers | Sample Taken |      | PHCs F1-F4+BTEX | VOCs | PAHs | Metals by ICP/MS | Hg | CrVI | B (HWS) | Asbestos |  |  |  |  |  |
|-------------------------|--------------|--------|------------|-----------------|--------------|------|-----------------|------|------|------------------|----|------|---------|----------|--|--|--|--|--|
| Sample ID/Location Name |              |        |            |                 | Date         | Time |                 |      |      |                  |    |      |         |          |  |  |  |  |  |
|                         |              |        |            |                 |              |      |                 |      |      |                  |    |      |         |          |  |  |  |  |  |
| 1                       | DWJC 1       | 0      |            |                 | Aug. 16/12   |      |                 |      |      |                  |    |      |         | X        |  |  |  |  |  |
| 2                       | DWJC 2       | 0      |            |                 |              |      |                 |      |      |                  |    |      |         | X        |  |  |  |  |  |
| 3                       | DWJC 3       | 0      |            |                 |              |      |                 |      |      |                  |    |      |         | X        |  |  |  |  |  |
| 4                       | DWJC 4       | 0      |            |                 |              |      |                 |      |      |                  |    |      |         | X        |  |  |  |  |  |
| 5                       | DWJC 5       | 0      |            |                 |              |      |                 |      |      |                  |    |      |         | X        |  |  |  |  |  |
| 6                       | DWJC 6       | 0      |            |                 |              |      |                 |      |      |                  |    |      |         | X        |  |  |  |  |  |
| 7                       | DWJC 7       | 0      |            |                 |              |      |                 |      |      |                  |    |      |         | X        |  |  |  |  |  |
| 8                       | LIN1         | 0      |            |                 |              |      |                 |      |      |                  |    |      |         | X        |  |  |  |  |  |
| 9                       | LIN2 } group | 0      |            |                 |              |      |                 |      |      |                  |    |      |         | X        |  |  |  |  |  |
| 10                      | LIN3         | 0      |            |                 |              |      |                 |      |      |                  |    |      |         | X        |  |  |  |  |  |

|   |  |
|---|--|
| Comments: <u>positive - stop on grouped samples</u> | Method of Delivery: <u>Paracel Courier</u> |
|---|--|

|                                     |   |                                       |                                   |
|-------------------------------------|---|---------------------------------------|-----------------------------------|
| Relinquished By (Print & Sign):     | Received by Driver/Depot: <u>A. J. J. J. J.</u> | Received at Lab: <u>Karen Wiggins</u> | Verified By: <u>Karen Wiggins</u> |
| Date/Time: <u>17/08/12 12:05 PM</u> | Date/Time: <u>08/17/12</u>                      | Date/Time: <u>08/17/12</u>            | Date/Time: <u>08/17/12</u>        |
| Temperature: _____ °C               | Temperature: _____ °C                           | pH Verified   By:                     |                                   |

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Chain of Custody  
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Nº 95139

Page 2 of 3

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|   |  |  |
|---|--|--|
| Client Name: <u>Paterson</u>                          | Project Reference: <u>PE 2734</u>                | TAT: <input checked="" type="checkbox"/> Regular   13 Day<br>  2 Day   1 Day<br>Date Required: _____ |
| Contact Name: <u>Tyler Robinson</u>                   | Quote #  |  |
| Address: <u>154 Colonnade Rd South<br/>Ottawa, ON</u> | PO # <u>13137</u>                                |  |
| Telephone: <u>613 226-7381</u>                        | Email Address: <u>trobinson@patersongroup.ca</u> |  |

Criteria: ☐ O. Reg. 153/04 Table ☐ ☐ O. Reg. 153/11 (Current) Table ☐ ☐ RSC Filing ☐ ☐ O. Reg. 558/00 ☐ ☐ PWQO ☐ ☐ CCME ☐ ☐ SUB (Storm) ☐ ☐ SUB (Sanitary) Municipality: \_\_\_\_\_ | Other: \_\_\_\_\_

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

| Parcel Order Number: <u>1233267</u> |       |        |            |                 | Required Analyses |  |                 |      |      |                  |    |    |         |          |
|-------------------------------------|-------|--------|------------|-----------------|-------------------|--|-----------------|------|------|------------------|----|----|---------|----------|
| Sample ID/Location Name             |       | Matrix | Air Volume | # of Containers | Sample Taken      |  | PHCs F1-F4+BTEX | VOCs | PAHs | Metals by ICP/MS | Hg | Cd | B (HWS) | Asbestos |
| Date                                | Time  |        |            |                 |                   |  |                 |      |      |                  |    |    |         |          |
| 1                                   | STIP1 | X      |            |                 | Aug. 16/12        |  |                 |      |      |                  |    |    |         | X        |
| 2                                   | STIP2 | X      |            |                 |                   |  |                 |      |      |                  |    |    |         | X        |
| 3                                   | STIP3 | X      |            |                 |                   |  |                 |      |      |                  |    |    |         | X        |
| 4                                   | STIP4 | X      |            |                 |                   |  |                 |      |      |                  |    |    |         | X        |
| 5                                   | STIP5 | X      |            |                 |                   |  |                 |      |      |                  |    |    |         | X        |
| 6                                   | STIP6 | X      |            |                 |                   |  |                 |      |      |                  |    |    |         | X        |
| 7                                   | STIP7 | X      |            |                 |                   |  |                 |      |      |                  |    |    |         | X        |
| 8                                   | VFT1  | X      |            |                 |                   |  |                 |      |      |                  |    |    |         | X        |
| 9                                   | VFT2  | X      |            |                 |                   |  |                 |      |      |                  |    |    |         | X        |
| 10                                  | VFT3  | X      |            |                 |                   |  |                 |      |      |                  |    |    |         | X        |

Comments: positive-stop analysis on grouped samples

Method of Delivery: Paracel Courier

|                                     |  |                                       |                                   |
|-------------------------------------|--|---------------------------------------|-----------------------------------|
| Relinquished By (Print & Sign):     | Received by Driver/Depot: <u>[Signature]</u> | Received at Lab: <u>Karen Wiggins</u> | Verified By: <u>Karen Wiggins</u> |
| Date/Time: <u>17/08/12 12:05 PM</u> | Date/Time: <u>08/17/12 1:00</u>              | Date/Time: <u>08/17/12 1:17</u>       |                                   |
| Temperature: _____ °C               | Temperature: _____ °C                        | pH Verified   By: _____               |                                   |



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|  |   |  |
|--|---|--|
| Client Name: <u>Paterson</u>                       | Project Reference: <u>PE2734</u>                | TAT: <input checked="" type="checkbox"/> Regular   13 Day<br>  12 Day   11 Day<br>Date Required: _____ |
| Contact Name: <u>Tyler Robinson</u>                | Quote # _____                                   |  |
| Address: <u>154 Colonnade Rd. South<br/>Ottawa</u> | PO # <u>13137</u>                               |  |
| Telephone: <u>613 226-7381</u>                     | Email Address: <u>trobison@patersongroup.ca</u> |  |

Criteria: ☐ O. Reg. 153/04 Table ☐ ☐ O. Reg. 153/11 (Current) Table ☐ ☐ RSC Filing ☐ ☐ O. Reg. 558/00 ☐ ☐ PWQO ☐ ☐ CCME ☐ ☐ SUB (Storm) ☐ ☐ SUB (Sanitary) Municipality: \_\_\_\_\_ ☐ Other: \_\_\_\_\_

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

Required Analyses

| Paracel Order Number:   |       | Matrix | Air Volume | # of Containers | Sample Taken |      | PHCs F1-F4+BTEX | VOCs | PAHs | Metals by ICP/MS | Hg | CrVI | B (HWS) | Asbestos | Lead |  |  |  |  |
|-------------------------|-------|--------|------------|-----------------|--------------|------|-----------------|------|------|------------------|----|------|---------|----------|------|--|--|--|--|
| Sample ID/Location Name |       |        |            |                 | Date         | Time |                 |      |      |                  |    |      |         |          |      |  |  |  |  |
| 1                       | PAP1  | O      |            |                 | Aug. 16/12   |      |                 |      |      |                  |    |      |         | x        |      |  |  |  |  |
| 2                       | PARG1 | O      |            |                 |              |      |                 |      |      |                  |    |      |         | x        |      |  |  |  |  |
| 3                       | PARG2 | O      |            |                 |              |      |                 |      |      |                  |    |      |         | x        |      |  |  |  |  |
| 4                       | P1    | P      |            |                 |              |      |                 |      |      |                  |    |      |         |          |      |  |  |  |  |
| 5                       | P2    | P      |            |                 |              |      |                 |      |      |                  |    |      |         |          |      |  |  |  |  |
| 6                       | P3    | P      |            |                 |              |      |                 |      |      |                  |    |      |         |          |      |  |  |  |  |
| 7                       | SCT1  | O      |            |                 |              |      |                 |      |      |                  |    |      |         | x        |      |  |  |  |  |
| 8                       | SCT2  | O      |            |                 |              |      |                 |      |      |                  |    |      |         | x        |      |  |  |  |  |
| 9                       | SCT3  | O      |            |                 |              |      |                 |      |      |                  |    |      |         | x        |      |  |  |  |  |
| 10                      |       |        |            |                 |              |      |                 |      |      |                  |    |      |         |          |      |  |  |  |  |

Comments:

Method of Delivery:

Paracel Courier

|                                 |                           |                      |                      |
|---------------------------------|---------------------------|----------------------|----------------------|
| Relinquished By (Print & Sign): | Received by Driver/Depot: | Received at Lab:     | Verified By:         |
|                                 | <u>M. Brouse</u>          | <u>Karen Wiggins</u> | <u>Karen Wiggins</u> |
| Date/Time:                      | Date/Time:                | Date/Time:           | Date/Time:           |
| <u>17/08/12 12:05 PM</u>        | <u>08/17/12</u>           | <u>1:00</u>          | <u>08/17/12 1:17</u> |
| Temperature:                    | Temperature:              | pH Verified          | By:                  |
|                                 |                           |                      |                      |

## ***Certificate of Analysis***

### **Paterson Group Consulting Engineers**

154 Colonnade Road South  
Nepean, ON K2E 7J5  
Attn: Tyler Robinson

Phone: (613) 226-7381  
Fax: (613) 226-6344

Client PO: 13137

Project: PE2734

Custody: 95132

Report Date: 22-Aug-2012

Order Date: 17-Aug-2012

**Order #: 1233294**

This Certificate of Analysis contains analytical data applicable to the following samples submitted:

| <b>Paracel ID</b> | <b>Client ID</b> |
|-------------------|------------------|
|-------------------|------------------|

|            |    |
|------------|----|
| 1233294-01 | P1 |
| 1233294-02 | P2 |
| 1233294-03 | P3 |

Approved By:



Mark Foto, M.Sc. For Dale Robertson, BSc  
Laboratory Director

Any use of these results implies your agreement that our total liability in connection with this work, however arising shall be limited to the amount paid by you for this work, and that our employees or agents shall not under circumstances be liable to you in connection with this work

**Certificate of Analysis**

Report Date: 22-Aug-2012

Order Date: 17-Aug-2012

Client: **Paterson Group Consulting Engineers**

Client PO: 13137

Project Description: PE2734

**Analysis Summary Table**

| Analysis | Method Reference/Description | Extraction Date | Analysis Date |
|----------|------------------------------|-----------------|---------------|
| Metals   | EPA 6020 - Digestion, ICP-MS | 20-Aug-12       | 20-Aug-12     |

**Sample Data Revisions**

None

**Work Order Revisions/Comments:**

None

**Other Report Notes:**

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

## Certificate of Analysis

Report Date: 22-Aug-2012

Order Date: 17-Aug-2012

Client: **Paterson Group Consulting Engineers**

Client PO: 13137

Project Description: PE2734

## Sample Results

| Lead       |           |       |     | Matrix: Paint          |
|------------|-----------|-------|-----|------------------------|
|            |           |       |     | Sample Date: 16-Aug-12 |
| Paracel ID | Client ID | Units | MDL | Result                 |
| 1233294-01 | P1        | ug/g  | 5   | 317                    |
| 1233294-02 | P2        | ug/g  | 5   | 54                     |
| 1233294-03 | P3        | ug/g  | 5   | 270                    |

## Laboratory Internal QA/QC

| Analyte                 | Result | Reporting Limit | Units | Source Result | %REC | %REC Limit | RPD  | RPD Limit | Notes |
|-------------------------|--------|-----------------|-------|---------------|------|------------|------|-----------|-------|
| <b>Matrix Blank</b>     |        |                 |       |               |      |            |      |           |       |
| Lead                    | ND     | 5               | ug/g  |               |      |            |      |           |       |
| <b>Matrix Duplicate</b> |        |                 |       |               |      |            |      |           |       |
| Lead                    | 432    | 5               | ug/g  | 302           |      |            | 35.3 | 50        |       |
| <b>Matrix Spike</b>     |        |                 |       |               |      |            |      |           |       |
| Lead                    | 61.8   |                 | ug/L  | 12.1          | 99.5 | 70-130     |      |           |       |

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|  |  |  |
|--|--|--|
| Client Name: <u>Paterson</u>   | Project Reference: <u>PE2734</u>                 | TAT: <input checked="" type="checkbox"/> Regular   3 Day<br><input type="checkbox"/> 2 Day   1 Day<br>Date Required: _____ |
| Contact Name: <u>Tyler Robinson</u>  | Quote # _____                                    |  |
| Address: <u>154 Colonade Rd. South<br/>Ottawa</u>  | PO # <u>13137</u>                                |  |
| Telephone: <u>613 226-7381</u>   | Email Address: <u>trobinson@patersongroup.ca</u> |  |
| Criteria: <input type="checkbox"/> O. Reg. 153/04 Table <input type="checkbox"/> O. Reg. 153/11 (Current) Table <input type="checkbox"/> RSC Filing <input type="checkbox"/> O. Reg. 558/00 <input type="checkbox"/> PWQO <input type="checkbox"/> CCME <input type="checkbox"/> SUB (Storm) <input type="checkbox"/> SUB (Sanitary) Municipality: _____ <input type="checkbox"/> Other: _____ |  |  |

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

Required Analyses

| Parcel Order Number:    |       | Matrix | Air Volume | # of Containers | Sample Taken |      | PHCs F1-F4+BTEX | VOC's | PAHs | Metals by ICP/MS | Hg | CrVI | B (HWS) | Asbestos | Lead |  |  |  |  |   |
|-------------------------|-------|--------|------------|-----------------|--------------|------|-----------------|-------|------|------------------|----|------|---------|----------|------|--|--|--|--|---|
| Sample ID/Location Name |       |        |            |                 | Date         | Time |                 |       |      |                  |    |      |         |          |      |  |  |  |  |   |
| 1                       | PAP1  | O      |            |                 | Aug. 16/12   |      |                 |       |      |                  |    |      |         | x        |      |  |  |  |  |   |
| 2                       | PARG1 | O      |            |                 |              |      |                 |       |      |                  |    |      |         | x        |      |  |  |  |  |   |
| 3                       | PARG2 | O      |            |                 |              |      |                 |       |      |                  |    |      |         | x        |      |  |  |  |  |   |
| 4                       | P1    | P      |            |                 |              |      |                 |       |      |                  |    |      |         |          |      |  |  |  |  | ✓ |
| 5                       | P2    | P      |            |                 |              |      |                 |       |      |                  |    |      |         |          |      |  |  |  |  | ✓ |
| 6                       | P3    | P      |            |                 |              |      |                 |       |      |                  |    |      |         |          |      |  |  |  |  | ✓ |
| 7                       | SCT1  | O      |            |                 |              |      |                 |       |      |                  |    |      |         | x        |      |  |  |  |  |   |
| 8                       | SCT2  | O      |            |                 |              |      |                 |       |      |                  |    |      |         | x        |      |  |  |  |  |   |
| 9                       | SCT3  | O      |            |                 |              |      |                 |       |      |                  |    |      |         | x        |      |  |  |  |  |   |
| 10                      |       |        |            |                 |              |      |                 |       |      |                  |    |      |         |          |      |  |  |  |  |   |

Comments:

Method of Delivery:

Pick up

|                                 |   |                                      |                                  |
|---------------------------------|---|--------------------------------------|----------------------------------|
| Relinquished By (Print & Sign): | Received by Driver/Depot:<br><u>M. Drouse</u> | Received at Lab:<br><u>SUNEEPOON</u> | Verified By:<br><u>W.C.</u>      |
| Date/Time:                      | Date/Time: <u>17/08/12 12:05</u>              | Date/Time: <u>AUG 17, 2012 08:19</u> | Date/Time: <u>Aug 17/12 3:51</u> |
| Date/Time:                      | Temperature: <u>17</u> °C                     | Temperature: <u>17</u> °C            | pH Verified   By: <u>N/A</u>     |