



# White Spruce Archaeology

Stage 1 assessment of heritage and archaeological values  
for the proposed drill sites  
in the area of  
Neskantaga First Nation

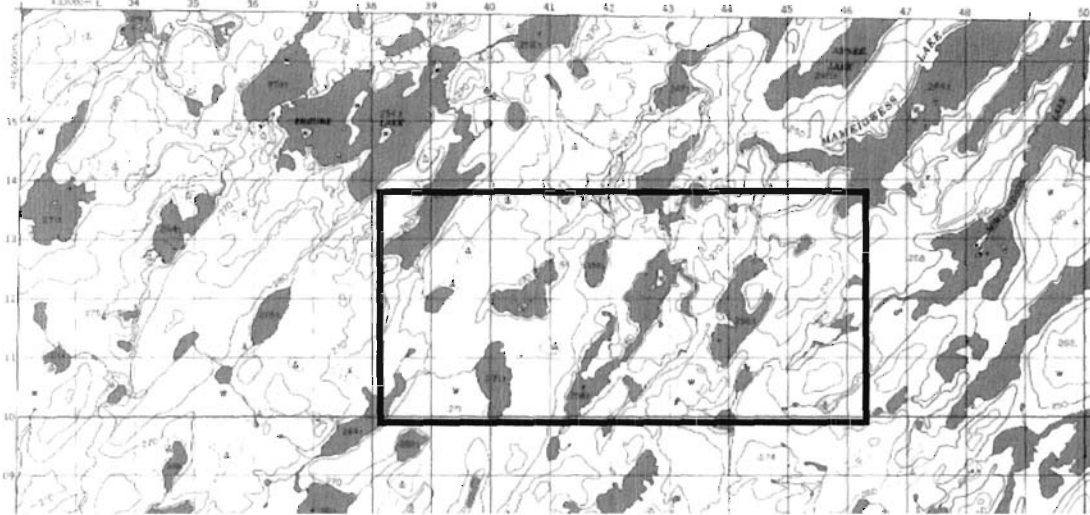
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License # P173  
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## Scope of work and objectives

Superior Diamonds Inc. has requested a Stage 1 archaeological investigation of thirty drill sites in the region of Freure Lake and Mameigwess Lake. Drilling is planned for late January or early February 2008. Very little information currently exists in the archaeological literature regarding the historic and prehistoric land use and its archaeological visibility in this specific study area. However, archaeological investigations have occurred in the surrounding region and the information from these surveys regarding site locations is used here to assess the study area (Figure 1).



**Figure 1. Northwest corner of the NTS mapsheet 43D/5 showing the study area.**

This report is intended to provide Superior Diamonds Inc. with some background information about archaeological and heritage sites generally (locations and site antiquity) in northwestern Ontario to place into context any heritage concerns. In addition, this report reviews the available map and physiographic information to assess the heritage potential of the specific drill site locations.

The limitations of this report are substantial on several fronts.

1. First, there is a significant lack of archaeological investigation in the immediate study area and in northwestern Ontario in general. This means that there are significant gaps in the database and in our understanding of how the landscape was used in the past and how this is represented archaeologically.
2. The lack of high-resolution maps for the study area makes interpretation of some of the landscape features difficult or impossible without ground truthing. Local traditional knowledge can provide important information about recent and historic land use patterns that can serve as proxy variables for archaeological site prediction.
3. The lack of traditional knowledge that is currently available for review for this Stage 1 assessment is a serious limitation. Dr. Scott Hamilton provided information about one travel route from the Kayahna land use studies (Kayahna Tribal Council 1985).
4. To my knowledge few if any archaeologists have reviewed the winter drilling process to assess the impact<sup>1</sup> that this activity may have on archaeological sites.

<sup>1</sup> Archaeological sites in the boreal forest are generally located within the first 50 cm beneath the ground surface. It is my understanding that the proposed drill sites will require a small core to be drilled and removed. While this specific action will have little impact on an archaeological site the preparation of the drill hole may impact artifacts and/or a site. Impact to an archaeological site occurs when the ground surface is cleared of bushes and/or trees and the roots are disturbed or if the ground surface is scraped to create a flat or even surface.



For thousands of years Aboriginal hunters and gatherers have engaged in complex activities related to making a living, to social and political events, and to spiritual beliefs in the boreal forest regions of northwestern Ontario, Quebec and in the western Provinces. The record of these activities (the Oral Tradition, artifacts and archaeological features) constitutes an important resource that documents regional human history and it details the connection between First Nations peoples and the land. Archaeological and heritage sites in northwestern Ontario record the intensive use of the watercourses, adjacent lands and local biotic and lithic resources. An archaeological site is defined in the Ontario Heritage Act as “property that contains an artifact or any other physical evidence of past human use or activity that is of cultural heritage value or interest” (Ontario Regulation 170/04). Past human behavior is not typically represented by only a few activity locations. Rather, archaeological sites, representing the full range and complexity of hunter and gatherer life throughout the post-glacial period, are distributed across the landscape.

People who used the Freure and Mameigwess lakes region in the past likely made use of specific landscape features such as eskers, changes in elevation, geological formations, forests, lowlands and water sources to harvest resources, as travel corridors, for shelter and settlements and for ceremonial and sacred functions. A strong correlation is thought to exist between certain environmental features and archaeological site distribution. 1: 50,000 digital National Topographic Survey maps and satellite imaging maps are available and were used for interpretation of the study area. The UTM coordinates of the proposed drill sites were placed on the NTS maps and assessed in terms of their association with certain landscape features. It is considered that this evaluation of proximity could have some inherent inaccuracies. This relates to estimates that NTS topographic map data might be only accurate to within  $\pm$  150m. Archaeologists infer the importance of landscape features with regards to their heritage potential based on prior archaeological research in the surrounding boreal forest zone, and on information about how First Nations people used the landscape historically as recorded by early explorers, fur traders and anthropologists. These interpretations can be significantly enhanced with access to locally-held knowledge about Aboriginal land use practices.

The remnants of the activities that took place at these locations are not always readily visible archaeologically for a number of reasons. Human activities can be ephemeral, leaving only a light footprint on the landscape. For example, travel corridors or briefly used winter hunting camps may not leave an easily identified archaeological signature. Large summer gatherings in contrast, are fairly well represented in the archaeological record because of the intensity of occupation results in the deposition of a significant quantity and variety of artifacts; soil disturbances, associated features. Furthermore, the predictability of the location of these camps makes them more routinely identified and inspected by field archaeologists. The lack of preservation of organic materials in the acidic boreal forest soils results has resulted in the loss of many cultural materials. This seriously hinders the archaeologists ability to examine the full range of past human land and resource use and results in the under representation of many activities.

The archaeological site inventory is heavily biased by the fact that sites are only documented when archaeologists have had an opportunity to visit the locality. For much of Canada, no such archaeological inspection has been done. The absence of sites in a particular area therefore does not necessarily indicate a true absence of artifacts or sites, but rather that the area has never been investigated by an archaeologist. While archaeological sites have been recorded at Attawapiskat Lake, the record is strongly biased to the current lakeshore. Until recently, archaeological investigations were restricted to lake and river shorelines and very little, if any, time was spent looking for sites even 10

meters inland or on the smaller inland lakes. This has created the incorrect impression that foragers used only the littoral edges of larger water bodies. We know from recent surveys in the boreal forest that sites are much more widely distributed across the landscape because people made use of the resources of the inland lakes, streams and tributaries, the eskers and upland areas, and important resources (such as stone material for the manufacture of tools) that are not necessarily close to current water bodies.

## **Archaeology in the study area**

There has been no systemic collection of archaeological data and very little published traditional knowledge regarding the area of the proposed drill sites located just southeast of Freure Lake and southwest of Mameigwess Lake. The Ontario Ministry of Culture and Heritage has no record of any archaeological sites within 10 km of the proposed drill pad locations. A number of shoreline archaeological sites are recorded on Attawapiskat and Kabania Lakes located some 20 km to the south. David Riddle (a retired Manitoba archaeologist) recorded the sites in 1980 as part of an archaeological survey of Attawapiskat Lake, and only a summary report is available (Riddle 1982). The current inventory of archaeological sites in the boreal forest of northwestern Ontario is severely biased towards the shorelines of major lakes and rivers. The highest densities of documented archaeological sites in northern Ontario are in regions that are currently heavily utilized or in the few areas where archaeological surveys have been conducted. As such, there are huge tracts of land in northwestern Ontario that has never been investigated for their archaeological potential. The proposed drill sites are located in such an area. It is important therefore to understand the environmental context of other archaeological sites in northwestern Ontario to evaluate the heritage potential of drill site locations.

Archaeological sites that date to as early as 8,500 to 9,000 years ago have been recorded northwestern Ontario. Sites in the Thunder Bay area (Cummins, Brohm and Biloski Sites) represent the earliest use of the area by people along ancient glacial Lake Minong shorelines (MacNeish 1952; Julig et al 1990; Hinshelwood and Webber 1987; Hamilton 1996). The people were likely attracted to the caribou and other subarctic and tundra animals and plants. At this time the landscape would have looked much different than today due to the receding glacial lakes and melt water runoff. In the absence of Pleistocene geomorphic mapping, changes in elevation or a break in the slope across a relatively flat landscape may be our only means of proposing the location of ancient raised shorelines of water bodies during the deglaciation period. Archaeological sites have been associated with these ancient landscape features although in northwestern Ontario sites associated with these features are under-represented largely because the areas are not comprehensively mapped and difficult to access.

Lakes, rivers and streams are significant landscape features and archaeologists have typically relied heavily on hydrology as an important proxy variable for assessing the archaeological potential of an area. Water bodies were important for hunters and gatherers because they were a source of drinking water, they can be rich in a variety of resources (fish, wild rice, beaver, muskrat), they attract other large mammals, and the shorelines are often ideal locations for camps in the spring to fall seasons. Archaeological sites are routinely found in association with large water bodies particularly in sheltered bays, at locations where rivers or streams flow into or out of lakes, near good fishing locations and along portage routes. Virtually no systematic archaeological field reconnaissance has been conducted along minor lakes and streams, or in upland regions removed from littoral situations. I and other archaeologists have found sites associated with these minor water bodies but the opportunity and logistics of systematically searching these locations make these sites rare. A case in point is the Wapekeka burial site (FIJj-1) located on the ancient shoreline of a small inland lake near Big Trout Lake (Hamilton 1991; 2004). The dates from this burial site demonstrate unequivocally that people occupied the northern forest some 7,500 years ago. Furthermore this site illustrates that archaeological sites are associated with

landscape features that were formed during the early Holocene and may not necessarily be directly related to current water bodies or shorelines.

## Method

With the aforementioned limitations in mind the archaeological potential is determined for each of the proposed drill areas and described as high, medium or low. The assignment of these levels is meant to characterize the area of the drill site not only the specific drill site location and is based on the information that is currently available.

- **Low potential** is assigned to an area that is more than 150 meters from a current water body (lake, river, stream), is not located on or within 30 meters of a break in slope nor are there any geographic features (i.e. eskers) that might be associated with past human activity. Given the lack of association of the low potential area to geophysical and hydrological features the probability of an archaeological site being located in this area is considered to be low.
  - **Low-medium potential** is assigned to areas that fall just outside of the medium potential criteria. For example if the area is 40 meters from a break in slope or it is 160 meters from a current body of water then this classification might be appropriate.
- **Medium potential** is assigned to an area that is associated with at least one significant landscape feature such as a break in slope (within 30 meters), within 150 meters of a current water body or the area is near a physiographic feature such as an esker or ridge. There is some probability of an archaeological site being located in a medium potential area based on the available information.
  - **Medium-high potential** is assigned to areas that fall just outside of the high potential criteria. For example if the area is 60 meters from a water body this classification might be appropriate.
- **High potential** is assigned to areas that are within 50 meters of a water body. High potential is also associated with the occurrence of multiple significant landscape features such as within 30 meters of a break in slope, within 150 meters of a current water body or it is associated with a physiographic feature such as an esker or ridge. A high potential area has a significant probability of possessing an archaeological site.

These categories are meant to provide guidelines for assigning archaeological potential. In situations where proposed drill sites fall just outside of the above described criteria some flexibility to the assigned criteria should be expected.

## Area 1

<b>Proposed drill site</b>	<b>1-3</b>	<b>Low potential</b>
<b>Proposed drill sites</b>	<b>1-1, 1-2,</b>	<b>Low-medium potential</b>
<b>Proposed drill sites</b>	<b>1-4, 1-5, 1-6</b>	<b>Medium potential</b>

The area around the proposed drill sites 1-1 and 1-2 has low to medium archaeological potential (Figure 2). These drill sites are within 30 meters of a break in slope but well away from the current water body. The proposed drill site 1-3 has low potential since it is well away from a break in slope or a current water body. The proposed drill sites 1-4, 1-5 and 1-6 are on the west edge and run parallel to the break in slope just south of the east arm of Freure Lake. These proposed drill sites are therefore located in an area of medium potential. It is possible that this contour represents the ancient shoreline of this water body and therefore this location has medium archaeological potential.

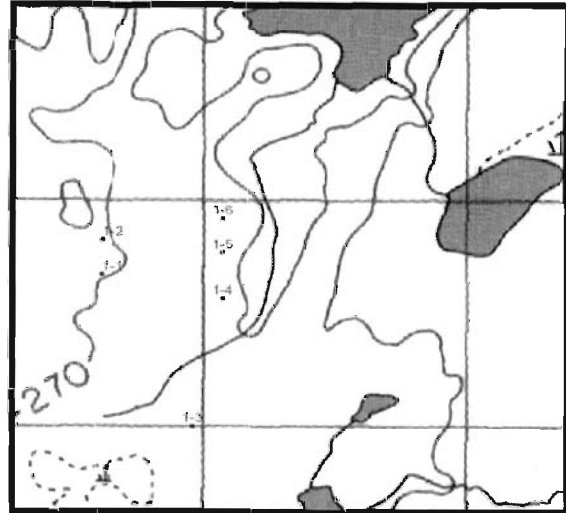


Figure 2. Proposed drill sites Area 1

## Area 2

<b>Proposed drill sites</b>	<b>2-2a<sup>2</sup>, 2-2b, 2-3, 2-4</b>	<b>Low potential</b>
<b>Proposed drill site</b>	<b>2-1</b>	<b>High potential</b>

The proposed drill sites 2-2, 2-2b, 2-3, 2-4 are located in an area that has a low potential for archaeological resources since they are greater than 150 meters from the small inland lake and they are not associated with a break in slope (Figure 3). The proposed drill site 2-1 is on a break in slope and is approximately 70 meters north of the water body. This location may be associated with an ancient shoreline. This location has a high archaeological potential.

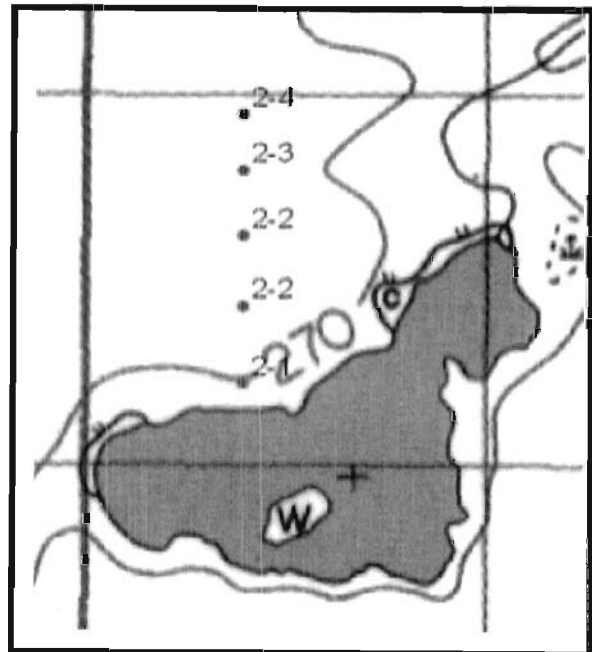


Figure 3. Proposed drill sites Area 2

<sup>2</sup> There are two drill locations labeled 2-2. The location at E440396 N5812432 is labeled 2-2a. The location at E440396 N5812622 is labeled 2-2b

### Area 3 and 4

Proposed drill sites 3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7  
 Proposed drill sites 4-1, 4-2, 4-3, 4-4

Low potential  
 Low potential

The proposed drill sites in Areas 3 and 4 are located in an area that is not associated with any physiographic or hydrological features that are associated with archaeological sites (Figure 4).

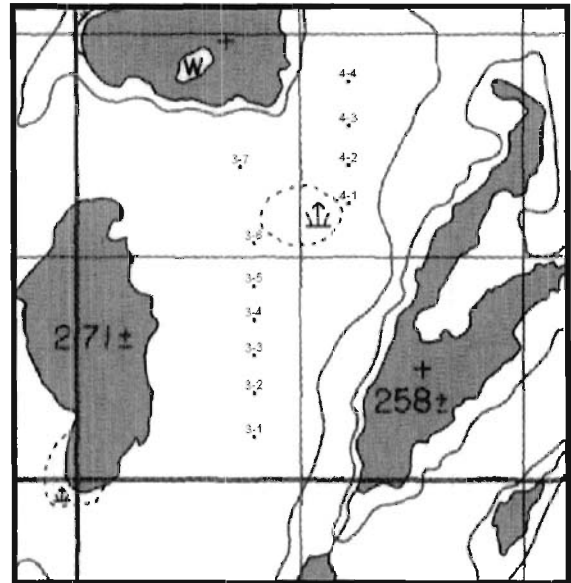


Figure 4. Proposed drill sites Areas 3 and 4

### Area 5

Proposed drill sites 5-1, 5-2, 5-3, 5-4 High potential

The proposed drill sites in Area 5 are just east of a small lake and stream (Fig 5, 6). This lake system has been identified as a summer and winter travel route by Aboriginal informants from Wawakapewin and Kasabonika First Nations (Figure 5) (Kayahna Tribal Area Council 1985). These distant communities likely were traveling along these routes to and from Lansdowne House, located on

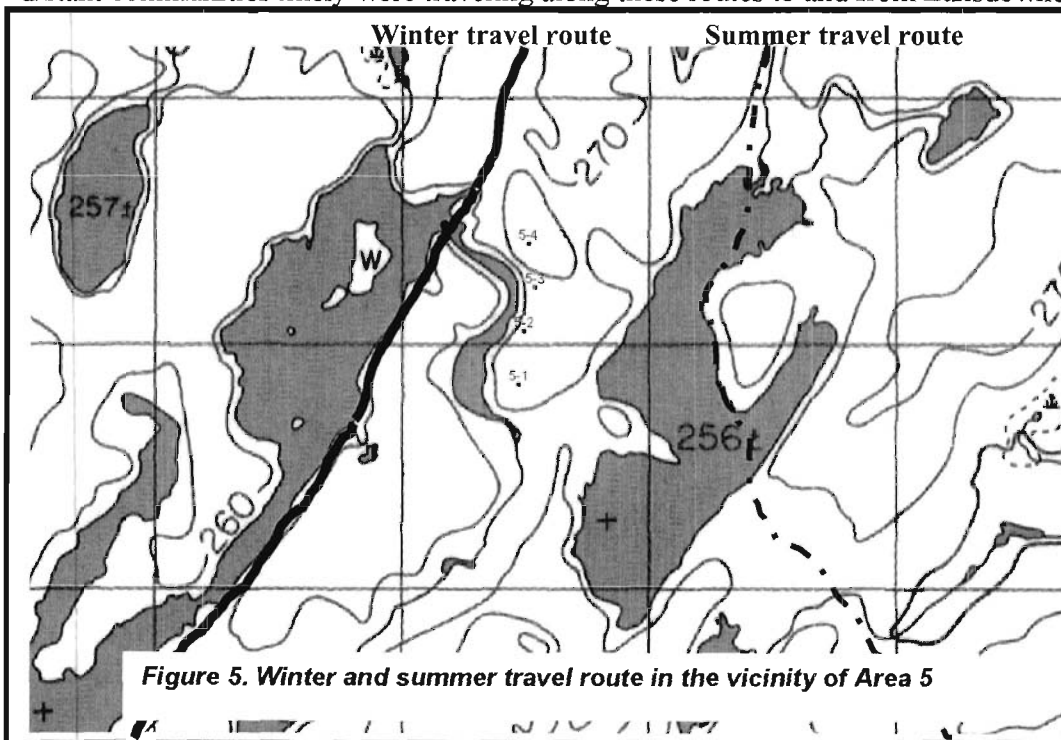


Figure 5. Winter and summer travel route in the vicinity of Area 5

Attawapiskat Lake. However none of the more local communities of Webequie, Nibinamik or Neskantaga First Nations participated in the Kayahna land use study, so their more intensive use of the study area is not represented in this published source.

The drill sites 5-1, 5-2, 5-3 and 5-4 are within 150 meters of the shore of a bay and small stream draining west into the unnamed lake. The proposed drill sites 5-2 and 5-3 are within 30 meters of the rise in elevation and within 50 meters of the stream (Figure 6). The association of these proposed drill sites with the winter travel route, their proximity to the stream and the location of 5-2 and 5-3 next to the break in slope gives this area a high archaeological potential.

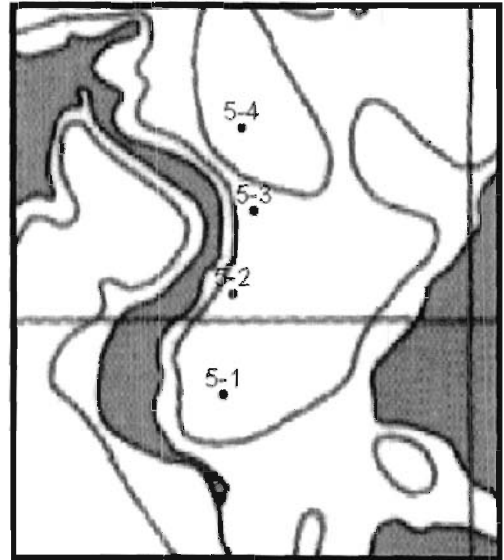
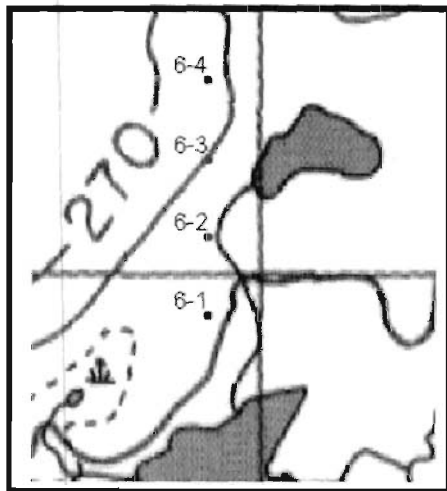


Figure 6. Proposed drill sites Area 5

**Area 6**

<b>Proposed drill site</b>	<b>6-4</b>	<b>Low-medium potential</b>
<b>Proposed drill site</b>	<b>6-3</b>	<b>Medium potential</b>
<b>Proposed drill site</b>	<b>6-1 and 6-2</b>	<b>High potential</b>



The proposed drill site 6-1 is approximately 60 meters west of a break in slope and within 150 meters of a small stream (Figure 7). The proposed drill site 6-2 is less than 30 meters from a small stream. The proposed drill sites 6-1 and 6-2 therefore are in an area of high archaeological potential.

The proposed drill site 6-3 is located on a break in slope, which is an area of medium archaeological potential. The drill site 6-4 is approximately 50 meters from the break in slope and over 150 meters from the current water body. I have assigned this location low-medium potential since it is just outside of the medium criteria.

Figure 7. Proposed drill sites Area 6

**Recommendations**

1. Ideally, traditional knowledge should be collected and assessed to supplement the archaeological and map data prior to the start of drilling operations at all of the sites in areas 1 to 6. For the current study area, a community meeting and/or interviews with some key community Elders about activities in the study area would assist in clarifying how the land and resources were used. This would serve to build into the heritage assessment a level of knowledge that currently does not exist. A



systemic and detailed collection of the traditional knowledge by Neskantaga First Nation and the surrounding communities should be considered a priority for land and resource management.

2. I would recommend that an archaeologist visit a winter drilling operation to view the process and clarify what, if any impact it might have on archaeological sites. This will be important for determining what actions need to be taken at drill sites that are in all of the levels of potential but particularly those in the medium to high category.

3. In the absence of traditional knowledge about the study area and direct knowledge about the impact of winter drilling the following recommendations are offered regarding the proposed drill sites.

- a) Winter drilling operations can proceed at the drill sites located in low potential areas if the community agrees with the assigned potential for drilling at these sites. This includes drill sites 1-3, 2-2a, 2-2b, 2-3, 2-4; all drill sites in Area 3 and all drill sites in Area 4. This recommendation could be revised in light of additional information regarding traditional knowledge or geomorphic data.
- b) Recommendations for winter drilling operations in low-medium or medium potential will benefit from an archaeologist's review of the winter operations to assess the level of impact to the ground surface. This will allow the archaeologist to determine the level of risk of subsurface damage and thereby refine the recommendations for the low-medium potential areas.
  - a. If it is determined that winter drilling operations has minimal impact<sup>3</sup> on the surface and subsurface ground the drill sites in the low-medium potential areas then drilling operations can proceed at locations 1-1, 1-2 and 6-4. If more than minimal impact is observed, it is recommended that the low-medium potential areas be treated similar to the medium potential area (see next).
  - b. Winter drilling operations should not proceed at the drill sites located in the areas medium potential. This includes drill sites 1-4, 1-5, 1-6 and 6-3.
    - Option 1. These drill sites be moved to a low potential area if possible.
    - Option 2. A Stage 2 field assessment occur after the ground has thawed before drilling at these locations.

These recommendations could be revised in light of additional information regarding traditional knowledge or geomorphic data.

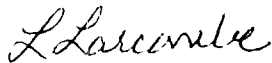
- c) Winter drilling operations should not proceed at the drill sites located in the areas identified as having medium-high or high potential. This includes drill sites 2-1, 6-1, 6-2; and all drill sites in Area 5. An archaeologist should conduct a Stage 2 field assessment after the ground has thawed and before drilling activities occurs at these locations. This recommendation could be revised in light of additional information regarding TEK or geomorphic data. The observation of winter drilling operations could also result in the revision of this recommendation.

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<sup>3</sup> Minimal impact means that the frozen ground surface is not altered in any way at or in the vicinity of the drill sites as a result of operations and that the subsurface impact is limited to the size of the drill hole.

This Stage 1 investigation is intended to provide Superior Diamonds Inc with recommendations regarding the best practices for the protection of archaeological/heritage resources at the thirty proposed drill site locations. Given the limitations of the existing information from which these recommendations were developed and in anticipation of the development of a more substantial database, revisions to these recommendations may be appropriate.

Report prepared by  
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# White Spruce Archaeology



Stage 1 assessment of heritage and archaeological values  
in the area of Neskantaga First Nation:

## **Phase 3**

Post impact assessment of 2008 winter drill sites

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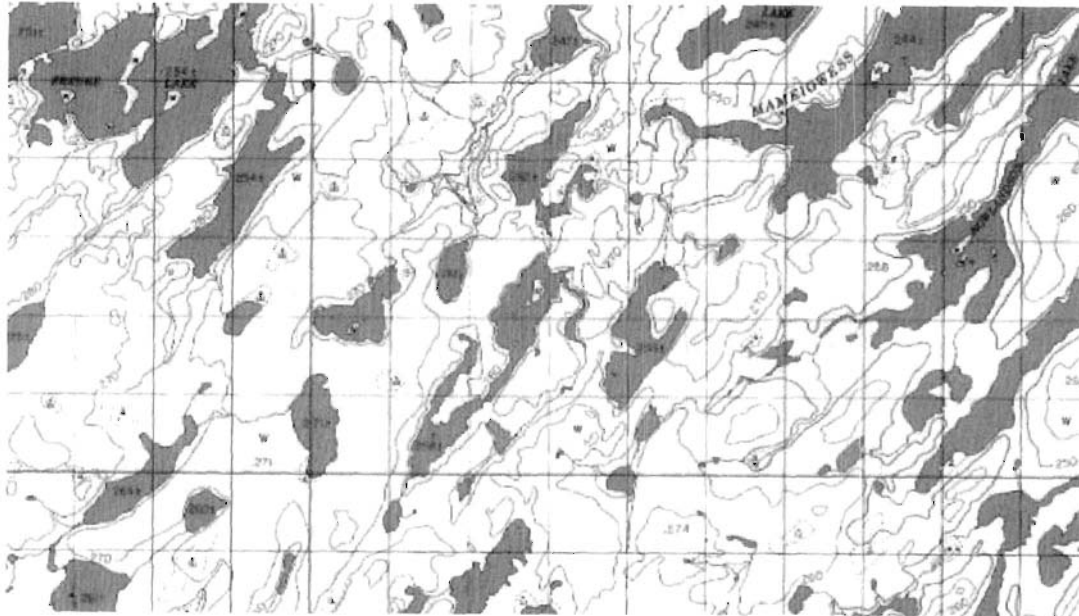
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## I. Introduction

In February of 2008, Dr. Linda Larcombe (White Spruce Archaeology) was retained by Northern Superior Resources Inc. (formerly Superior Diamonds Inc.) to provide a preliminary Stage 1 heritage impact assessment of the winter drilling operations that are occurring in five areas in the traditional land use area of Neskantaga First Nation (Figure 1).

Thirty potential drill sites in five areas north of Neskantaga First Nation were assessed for archaeological potential based on available mapped information. A phase 1 report was prepared for this preliminary work (see Phase 1 Report) and as a result of this preliminary work it was determined that drill operations in a limited number of locations needed to be relocated out of areas of medium to high archaeological potential. This recommendation was acted upon by Northern Superior Resources Inc and the drill holes in Area 5 were moved to comply with the recommendations. It was also recommended in the Phase 1 Report that an archaeologist views the winter drilling operations at the time of operation and subsequently conducts a post impact assessment in the spring/summer to fully review the process.

Hamilton and Larcombe therefore visited a drill site in Area 2 during in February 2008 and determined that based on the observations that could be made at that time; the winter drill operations would likely have little impact on archaeological sites. These findings are detailed in the Phase 2 Report. It was again recommended that a post impact assessment of Area 5 be conducted in the spring after the drilling was complete and the ground surface was accessible and visible for inspection to confirm that the extent of impact was minimal. Reported here is the current Phase 3 part of the project which focuses on assessing the impact of winter drilling operations on two drill sites in Area 5 (Can-08-16 and Can-08-17) in June of 2008 to complete the stage one portion of this work.



**Figure 1. Study area north of Neskantaga First Nation.  
(Map sheet 43D5 Wa pitotem).**

In addition to this primary task, two other areas were assessed for their archaeological potential. The first area is known locally as "Copper Point" on Rowlandson Lake. Some sediment sampling and mineral exploration will begin in this area this summer. Mr. Leo Moonias from Neskantaga First Nation identified this point of land as the location of a number of old camps. Northern Superior Resources Inc. therefore requested a Stage I investigation of this area, which is located in the eastern portion of their claim block. The second area that was assessed is south of Mameigwess Lake on an unnamed lake, east of drill Area 5. In February 2008, Mr. Moonias identified a location at the north end of a small-unnamed lake at the mouth of a small stream/river as an area of significance. This location was visited to investigate the nature of the site with regards to its archaeological potential. Although these locations were not part of the original scope of work for this Stage I assessment it was considered prudent to assess these two additional locations for archaeological potential at this time.

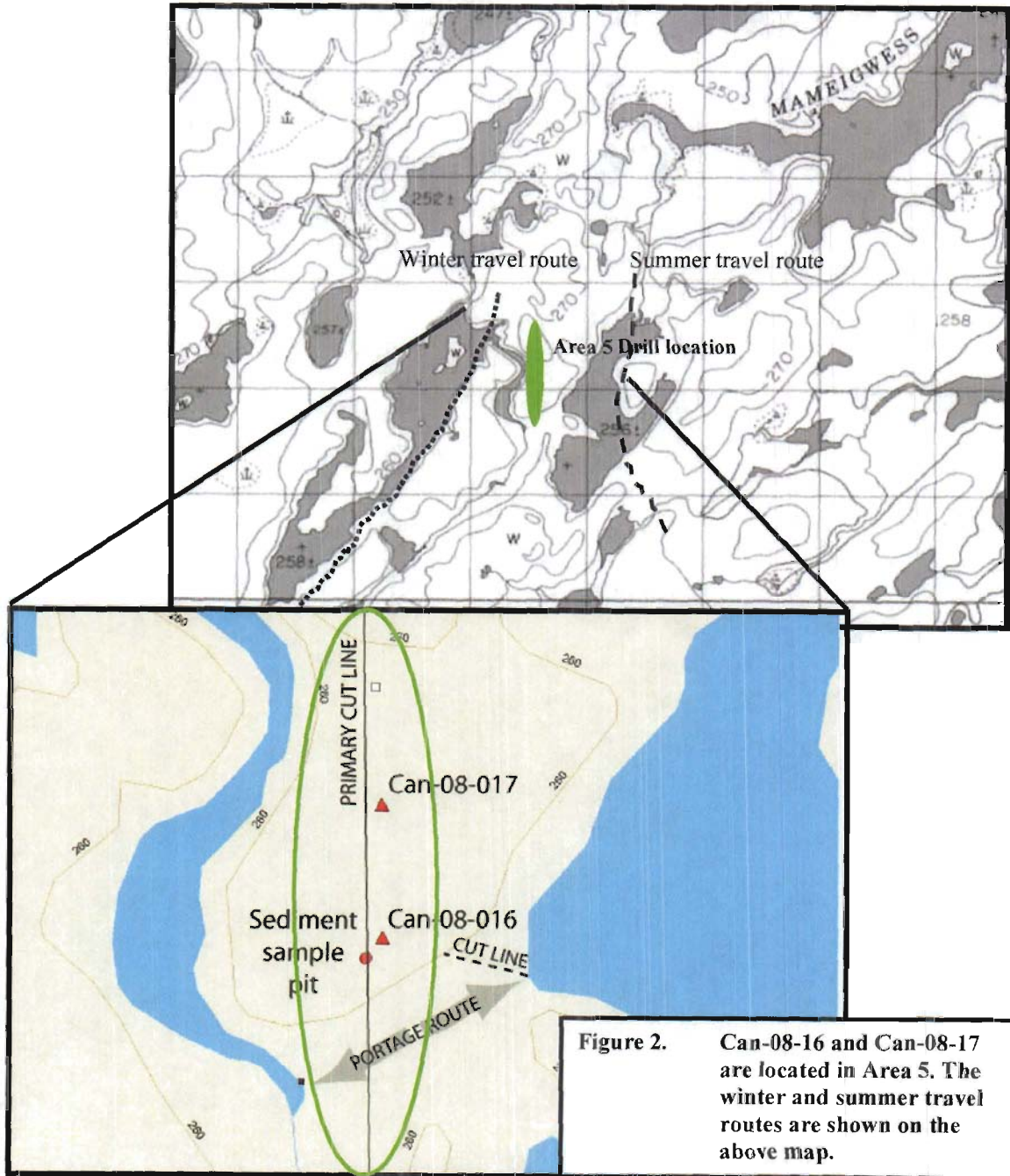
As part of the initial Stage I work, it was recommended that more detailed and structured traditional knowledge regarding land use and occupancy should be collected and assessed to supplement the archaeological and map data prior to the start of drilling operations at all of the sites in all areas. A minimal amount of land use information had been collected by Northern Superior Resources Inc. from Mr. Moonias. In addition, some mapped data that had been collected and digitized by Dave Mackett. This information was made available to Dr. Scott Hamilton by Dennis Forbes. For the current study area, a community meeting and/or interviews with some key community Elders about activities in the study area would assist in clarifying how the land and resources are used presently and how they were used within living memory and from oral tradition. This would serve to build into the heritage assessment a level of knowledge that currently does not exist. A systemic and detailed collection of the traditional land use data by Neskantaga First Nation and the surrounding communities should be considered a priority for land and resource management.

All of the above work was conducted with in partnership with Dr. Scott Hamilton (Lakehead University) who has been retained by Neskantaga First Nation to oversee cultural resource management work in their traditional land use area.

## **II. Post impact assessment of winter drilling operations in Area 5**

Area 5 is south of Mameigwess Lake on a ridge between two unnamed water bodies (Figure 2). The Kayahna land use and occupancy study identified a winter and a summer travel route that extend the lengths of these two unnamed water bodies. Furthermore Mr. Moonias had indicated that a portage route exists across the ridge between connecting the eastern most unnamed lake to a small tributary of the western unnamed lake. The location of the drill sites (Can-08-16 and Can-08-17) on this ridge put them in proximity to a medium-high area of archaeological potential and to a documented travel route.

The winter drilling was conducted using the Hydracore gopher drill. The drill which sits on an aluminum table which supports the rig and motor approximately 10-20 cm above the packed snow. Lines were cut through the forest during the winter to access the drill locations and to place water lines from the drill to the closest body of water. The drill sites and the cut lines in this area were visited in June 2008.



**Figure 2.** Can-08-16 and Can-08-17 are located in Area 5. The winter and summer travel routes are shown on the above map.

**1. DH5-1 (Can-08-016) (NAD 83 16U 0443599E 5812083N)**

Drill Site DH5-1 was located in a black spruce forest with minimal under storey and a moss base on line (0443598 (NAD 83)). An 11m X 12m area was cleared during the winter (Figure 3). The location of the drill platform on which the Hydracore Gopher drill was clearly visible on the surface of the ground as a result of the clay seepage from the drill operation. The surface of the ground was minimally compressed from the weight of the drill rig and the operators. The core hole (approximately 10 cm in diameter) was flooded. Otherwise, the drilling technique did not disturb any of the subsurface surrounding strata.



**Figure 3. Drill site Can-08-16. Area that was beneath the drill platform is slightly compressed.**

**2. DH5-2 (Can-08-017) (NAD 83 16U 0443599E 5812275N)**



**Figure 4. Drill site Can-08-17. Log frame used to support the Hydracore Gopher drill.**

DH5-2 was located in a mature black spruce forest with no under storey and a sphagnum moss base (Figure 4). A 12 m X 12 m area had been cleared a number of the trees were used to form a log base on which the drill rig had been positioned.

Suspending the platform in this manner over top of the mossy base was likely required to stabilize the drill platform



and it also resulted in less compression of the soils beneath the platform. There was also a small amount of clay seepage from the drilling operation. No subsurface disturbance was noted except for the core hole.

### 3. Survey lines and water lines

A number of cut lines were identified in Area 5 all of which had been cleared in the winter (Figure 5). The trees and under storey had been cut 20-30cm above the ground surface in the winter along the primary line of sight for the datum line for locating and accessing the drill sites. Secondary lines for the water hoses were visible and we tracked one cut line to the water's edge. The cut lines were inspected in June to assess the extent of surface and subsurface disturbance. The winter clearing activities that are used to construct the primary sight lines and the lines for water access did not result in erosion or disturbance of the surface of sub surface soils along these lines. This activity therefore would have little or no impact on buried archaeological remains.



**Figure 5. Primary cut line (0443598E NAD 83) (top left). Flagged stake at DH5-5 on the primary cut line (top right). Secondary cut line for water access (bottom).**

#### ***4. Sediment sampling***

A sediment sampling test pit was located next to the primary cut line at (16U 0443575E 5812054N (NAD 83)). The pit (approx. 30 cm diameter) was dug at an angle into the soil to a depth of approximately 50 cm where the glacial till was exposed (Figure 6). This sampling pit was located on top of the north-south trending height of land between two water bodies. Mr. Moonias had indicated that a travel route (likely a winter route) crossed this height of land from one water body to other. The sampling pit was likely north of the portage route.

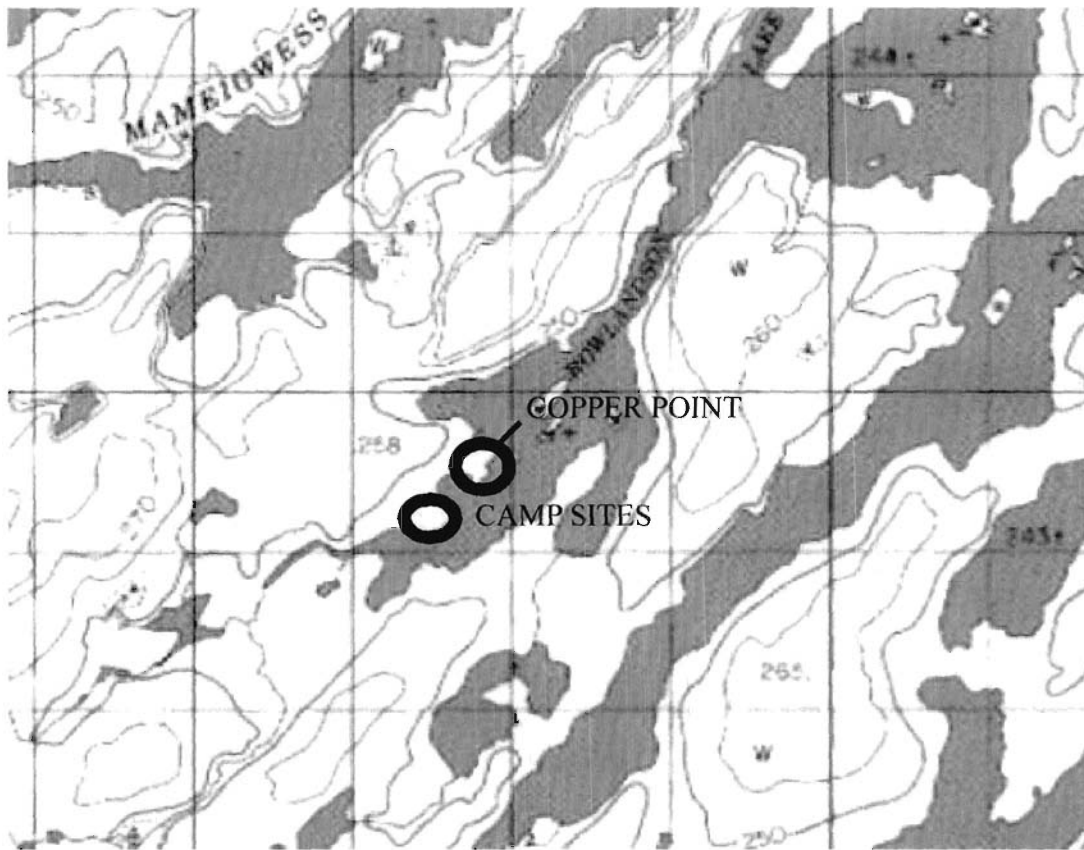
If this type of pit were located at an archaeological site it would disturb, artifacts, features and the site integrity. However, in our discussions with Scott Parsons (geologist with Northern Superior Resources Inc.) the priority locations for the sediment sample pits are not associated with eskers or till plains and they are typically dispersed 100 meters (or more) apart. The risk for encountering an archaeological site would be low in this region.

### **III. Rowlandson Lake**

Copper Point is located on a large peninsula on the west side of Rowlandson Lake and is vegetated predominately with black spruce, poplar and red dogwood along the shoreline. Areas of the point were less well drained and had moss cover over standing water. According to the map provided by Mr. Mackett, Mr. Moonias identified the peninsula just to the south of Copper Point as the site of some unspecified types of camps and mining camps in a previous interview (Figure 7). Northern Superior Resources Inc. expressed some interest in exploring this area and were aware that considerable amounts of mining activity had occurred on this point of land in the past.



**Figure 6. Sediment sampling pit just off of the primary sight line 0443598E (NAD 83).**



**Figure 7. Location of Copper Point and the location identified by Mr. Moonias as the location of several camps.**

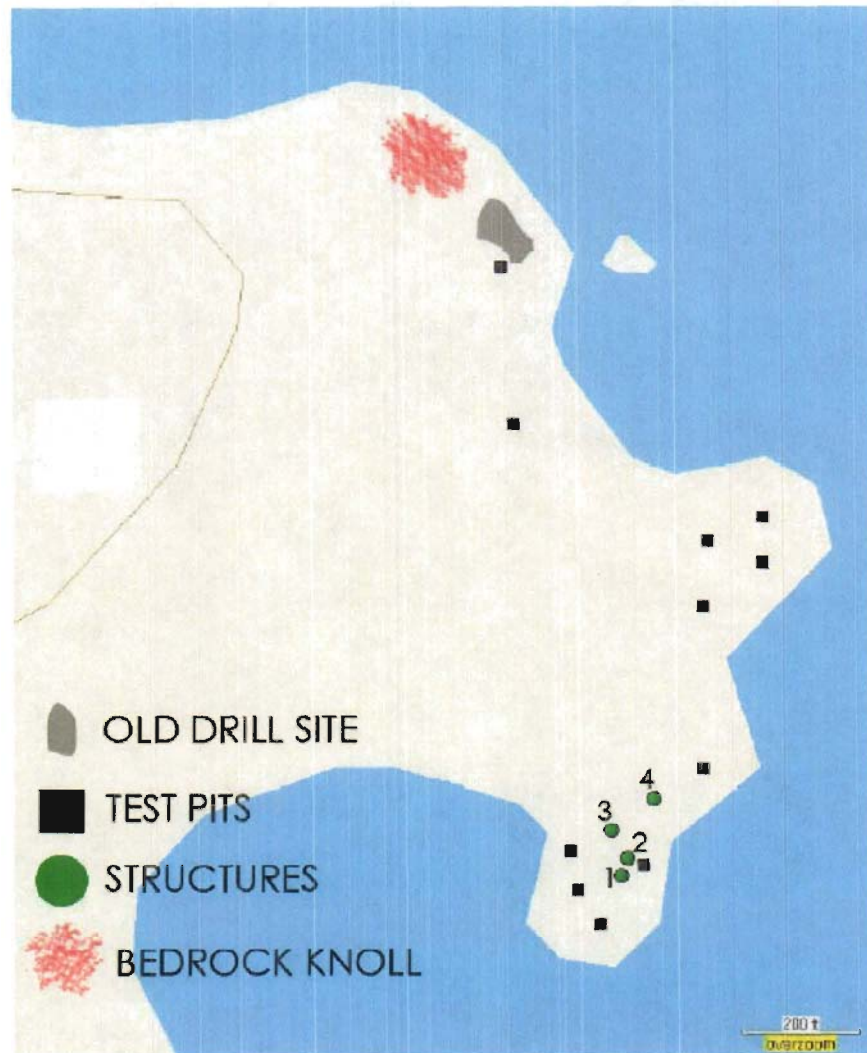
The area was examined for the presence of archaeological materials using pedestrian survey and shovel test pits. Shovel test pits were each approximately 50 cm square and were excavated to a depth at which glacial deposits were uncovered. The test pits were located away from the mining camp structural features to retain that site integrity and to explore for archaeological remains representing non-industrial land use activities. The structures, geological and mining activity features were measured, photographed and UTM coordinates were recorded using GPS units.

### ***1. Copper Point Mine Site (Fclw-1)***

Evidence of the remains of four buildings and tin can middens associated with non-contemporaneous mining camp activities were located on the point of land referred to as Copper Point (Figure 8). The site measures approximately 500m X 200 m.

#### **a. Structure 1 (16 U 0447799E 5812650N (NAD 83))**

The remains of a log foundation measuring approximately 6m X 6m was located within 5 meters of the waters edge just northeast of the helicopter landing site (Figure 8 Structure 1).



**Figure 8. Copper Point Mining Site (FcIw-1) on Rowlandson Lake.**

The structure was likely the foundation of a prospecting tent with a canvas top and likely represents one of the older camps at this location (ca. 1940's). Along the south wall of the foundation a square, poured cement block was found underneath a stove pipe with roof flashing (Figure 9). The nails in the flashing were modern-type round nails. A refuse midden of small tin cans was found southeast of this structure, within one meter of the waters edge.

***b. Structure 2 (16U 0447789E 5812660N (NAD 83))***

Just behind this feature (northwest) was a 5m X 3m structure built into the ground and lined with upright logs (Figure 8 Structure 2). The structure had been built into the ground and soil was mounded on the exterior surfaces of the walls (Figure 10). It appears that the roof of the structure is collapsed. No cultural materials were found in the structure. It is suspected that this structure may have been used as a storage cellar for food.

No cultural refuse was found on the surface of the ground in association with this feature.



**Figure 9.** South wall of structure 1 (top photo). Looking west. Chimney and cement base on south wall (bottom photo). Looking north.

***c. Structure 3 (16U 0447796E 5812684N (NAD83))***

The remains of a large building (see Figure 8 Structure 3) were found to the northwest of these first two structural features. The log foundations of structure 3 measured approximately 11m X 11m (Figure 11). Next to the north wall of this structure sections of piping were found. The piping may have functioned to provide radiant heat to the building. Another section of tubing was found in the western portion of the foundation. This camp likely represents the remains



**Figure 10.** Storage feature built into the ground and constructed with up right logs. Looking west.



**Figure 11.** Structure 3. Remains of the south foundation. Looking east.

of a more modern (post 1950's) structure. No other cultural materials were found in association with this structure.

**d. Structure 4 (16U 0447827E 5812711N)**

A small log structure (approximately 2m X 2m) was located to the east of the larger struc-



**Figure 12. Structure 4. Remains of a small building. Looking east.**

ture 3 (Figure 8 Structure 4 and Figure 12). No debris or refuse were found in association with this feature. The function of this small structure is unknown.

FcIw-1 (Copper Point Mining Site) is comprised of these four structural features that are located within a 200m square area on the point. Shovel test pits were excavated to assess the location for the presence of sub-surface pre-contact components. The test pits were all negative. This site is an example of early industrial mining activities in northwestern Ontario. No artifact materials were found in the test pits in the vicinity of the structures. The site is therefore likely a single cultural component and may be limited to surface materials and the remains of four structures.

This is the first archaeological site recorded within the region covered by the Borden area described by FcIw (a 16 km x 16 km area).

***2. Bedrock exposure with copper showing (16U 0447737E 5813026N (NAD 83))***

North of the Copper Point Mining Site (FcIw-1) an old drill site was located in the vicinity of a bedrock exposure showing considerable oxidization (Figure 13). This knoll has been exten-



**Figure 13. Bedrock exposure with copper showing.**

sively investigated for mineral content. Shovel test pits were excavated on the approach to the bedrock exposure and to the northwest. No subsurface remains were recovered. Southwest of this exposure an old drill site was located (0447748E 5812985N (NAD 83)). A cache of drill rods and a core case were found in a cleared area measuring approximately 10m X 10m (Figure 14).

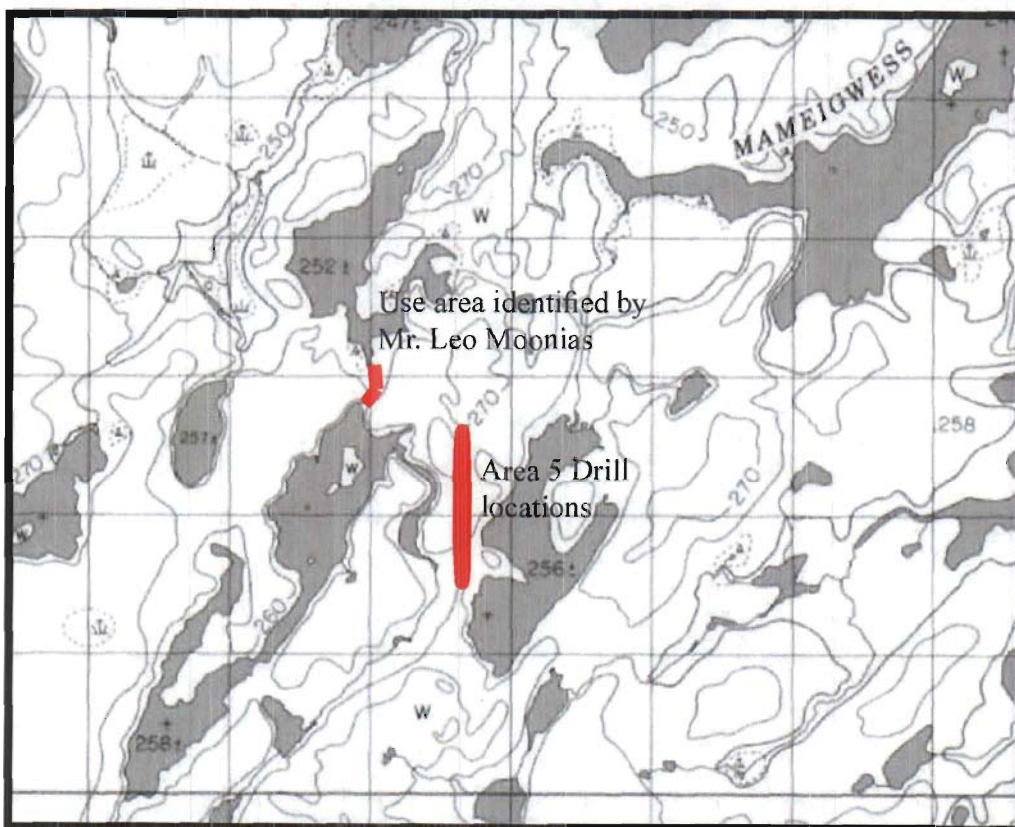


**Figure 14. Old drill site. Core casing in the foreground and drill rod in the background.**



#### IV. Portage Route (NAD 27 16U 442945 5812810)

Mr. Moonias had noted that a location on the north shore of a small unnamed lake was a significant area (Figure 15). This location is at the mouth of a small stream (approximately 500m long) which connects to another unnamed lake to the north. These small lakes are connected to Mameigwess Lake through a series of small streams and lakes. This area was probably used quite extensively by peoples from Kassibonica, Wabodin, and Big Trout as a summer portage route or winter corridor between the two small lakes. The area consists of rocky outcrops and a boulder field.



**Figure 15. Area of interest identified by Mr. Leo Moonias in relation to drill Area 5**

The corridor likely had numerous washouts from high water levels and thus, there is very little surface sediment which would hold any archaeological remains. It was thought there might be remnants of a camp or a small structure at this location however, no evidence of any habitation was found. Considering the environment surrounding the stream (muskeg), it is unlikely a camp would be located within 50m of the stream corridor.

#### V. Traditional land use study data collection

It was intended that a workshop would be held with five to eight land and resource users and Elders from Neskantaga First Nation to collect land use information for Northern Superior

Resources Inc. claim blocks to the north and west of the community. Our contact person for the workshop was Mr. Alex Ostamas. Mr. Ostamas arrived back in the community on Monday but was unavailable until Tuesday. We spoke briefly to Mr. Ostamas at that time and he told us that there was an important community meeting that afternoon and a workshop would therefore not be possible that day. He suggested that we aim for Thursday for a workshop and that he would contact key community members. Ron Avery introduced Dr. Hamilton and I to Mr. Leo Moonias and we arranged to conduct an interview with him for Wednesday afternoon. Maps had been prepared by Dr. Hamilton so that we could code and mark locations directly onto a series of 1:50,000 maps sheets. The interview was digitally voice recorded. White Spruce Archaeology subsequently digitized the map information that was provided to us by Mr. Moonias at this interview. The originals and the digitized versions of the maps were turned over to Dr. Scott Hamilton who forwarded the information on to Neskantaga First Nation.

## **VI. Summary and Recommendations**

The winter drill operations of Northern Superior Resources Inc. were reviewed in February of 2008 and a post impact assessment was conducted in June. The drilling operations include the clearing of trees and under storey during the winter to construct sight/datum lines, and cores are removed using the portable Hydracore Gopher drill. The drill is positioned on an aluminum frame either directly on the cleared, snow packed ground or positioned on a wood frame which supports it above the ground. The drill is moved between drill sites using a helicopter.

- In light of this assessment it is recommended that no further archaeological investigations are necessary for the winter drill operations in the Northern Superior Resources Inc.'s claim blocks located north of Neskantaga First Nation.

Sediment sampling pits could potentially damage archaeological sites however the locations of these pits are not typically located in areas of medium or high archaeological potential.

- It is recommended that sediment sampling pits be kept well back (20 meters) from the edges of water bodies (streams, rivers, lakes) wherever possible.

The mining camp on Copper Point has been assigned an archaeological site designation and has been assigned a Borden number (FcIw-1). Mining exploration and winter drilling operations will not significantly impact this site.

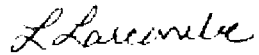
- It is recommended that no further archaeological work is required for this location at this time.

The traditional land use and occupancy workshop that was anticipated to occur during our week at Neskantaga could not be arranged at that time. A limited amount of information was collected from Mr. Moonias and has been digitized and returned to the community.

- It is recommended that following Mr. Alex Ostamas and Mr. Moonias rec-

ommendations, residents of Summer Beaver be contacted regarding traditional land use and occupancy of the region west of Freure Lake and north of Spero Lake (the western claim blocks).

Signed,

A handwritten signature in cursive script, appearing to read "L. Larcombe".

Linda Larcombe Ph.D.  
White Spruce Archaeology



**Environmental Values Inventory  
Ti-pa-haa-kaa-ning Gold Project  
Lansdowne House Area, North-Central Ontario**



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*Environmental Values Inventory*  
*Ti-pa-haa-kaa-ning Gold Project*  
*Lansdowne House Area, North-Central Ontario*

Dear Mr. Boucher:

Trow Associates Inc. is pleased to provide you with three copies of the above-noted report.

We trust that this report is sufficient for your current requirements. Should you require clarification of some points, please contact this office.

Yours truly,

**Trow Associates Inc.**

Chris Perusse, B.Sc., E.T.  
Environmental Scientist

Randy Wepruk, B.Sc., MNRM  
Senior Environmental Scientist

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## 1.0 INTRODUCTION

Trow Associates Inc. (Trow) was commissioned by Northern Superior Resources Inc. (Northern Superior Resources), to conduct an environmental values inventory in the general vicinity of their diamond drill exploration program, termed the Ti-pa-haa-kaa-ning Gold Project, approximately 30 kilometres north of the Neskantaga First Nation Community, also known as Lansdowne House, Ontario (Figure 1).

The investigation was carried out for due diligence purposes to establish baseline environmental information (i.e. prior to development), post-drilling sampling to determine drill program effects on water quality and First Nation traditional use patterns within the exploration area. This report presents the results of our laboratory program, the findings of our wildlife field investigation and a summary of the First Nation land use inventory.

### 1.1 Site Description

The centre of exploration is located approximately 30 km northeast of Lansdowne House, Ontario. The location of the property is shown on Figure 2, Drill Site Locations. The exploration site is accessible only by helicopter from the community of Lansdowne House which has a maintained airport.

There is no history of industrial development in the immediate exploration area apart from commercial tourism outpost camps which exist to the north on Mameigwess Lake and to the south-west on Wagabkedei Lake, both of which are outside of the zone of diamond drill exploration (Figure 3). The Ministry of Natural Resources (MNR) has no indication of sensitive areas within the drilling location as indicated through their Natural Resource Values Information System (NRVIS) shown in Figure 3. The values information typically includes natural resource parameters such as sensitive species habitat, bald eagle nests, woodland caribou calving sites, fish spawning locations, and economic development such as commercial camps, trap lines and canoe routs, to name a few.

A winter road right-of-way is situated roughly 9 km south of the exploration area and connects the First Nation Communities at Fort Hope, Lansdowne House and Webequie. The origin of the winter road is off of Highway 599, just north of Pickle Lake, Ontario.

First Nation traditional use, described as fishing, hunting and trapping, occurs throughout the area of exploration. The distribution of these activities is described in more detail in Section 5, First Nation Traditional Land Use. There are no trapper's cabins in the area of interest.

The lands that are presently slated for exploration total an area of approximately 132.8 km<sup>2</sup> as shown on Figure 2. The general area consists mainly of small lakes, creeks and lowlands, of which many remain unnamed. There is a prominent ground moraine situated immediately to the south-south west of the mining claims, but drilling activity is currently scheduled for the northern part of the claims block.

The most significant drainage feature is the Attawapiskat River, which flows from west to east and located approximately 30 km to the south. Much of the topography can be described as fairly low lying and well vegetated (Photograph 1) as is typical of the Hudson Bay Lowlands.



## **1.2 General Limitations**

This report has been prepared for and is intended for the use of the client, Northern Superior Resources Inc. The contents of this report may not be reproduced in whole or in part, or used or relied upon in whole or in part by any other party for any purpose whatsoever without the expressed written consent of Trow. Any use which another third party makes of this report, or any reliance on or decision made based on it, is the sole responsibility of such third party and Trow accepts no responsibility for any damages of any kind or nature whatsoever, suffered by any other third party as a result of decisions made or actions based upon this report. The findings are relevant for the date(s) of our site visit(s) and should not be relied upon to represent conditions of other dates.

This report is intended to provide “pre-operational and post-operational (completion of drilling)” water quality data for several lakes in and around the area designated for exploration (approximately 30 km northeast of Lansdowne House) as well as important wildlife information, as described herein. It is based on the authorized scope of work of the Environmental Survey proposal by Trow and reported herein. Our conclusions regarding the site are based on observations of existing site conditions and specific chemical analysis. Professional judgement was exercised in gathering and interpreting the information obtained and in the formulation of the conclusions.

Conclusions regarding the condition of the site do not represent a warranty that all areas within the site are of the same quality as those sampled.

Substances could also exist in forms not indicated by the analytical testing conducted. Additionally, the scope of work was based, in part, on rules and regulations that we understand to be current or expected at the time of the work. Changes in regulations, interpretations and/or enforcement policies may occur in the future. Such changes could be reflected in the degree of remediation actually required, if any, at the time of the action.

All reports, field data, notes, laboratory test data, calculations, estimates and other documents which are communicated by Trow to the client or third parties, are instruments of service and will be retained by Trow. These records will be stored in our files for a period of 10 years following submission of the final report, during which time they will be made available to the client, at all reasonable times, for review.

Trow has conducted the services reported herein in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practising in the same locality and under similar conditions as this project. No other representation, expressed or implied, is included or intended in this document.



## **2.0 METHODOLOGY**

Prior to the commencement of field work, preliminary discussions and correspondence between Trow (Mr. Randy Wepruk) and Northern Superior Resources (Mr. Ron Avery, P. Geo) confirmed the locations of surface water sampling as well as the logistics of the field work.

In order to assess the “pre-operational” environmental quality of several lakes in the general area of exploration, a water quality sampling program was conducted on February 17, 2008. The field program was carried out under the continuous supervision and direction of Trow field technical staff. Northern Superior Resources made arrangements to provide an assistant, Mr. Rod Sakanee, who is a member of the Neskantaga First Nation Community. Mr. Sakanee is also a local trapper in the area of the exploration drilling.

To facilitate the water sampling and wildlife survey, the client provided access to an Astar AS-350 helicopter. The surface water assessment consisted of the collection of six (6) downgradient and two (2) background surface water samples (Figure 4). The samples were collected by first advancing a hole through the ice, followed by the filling of pre-cleaned bottles provided by the laboratory.

In order to assess the “post-operational (completion of drilling)” environmental quality of lakes as sampled previously, an additional round of water sampling was conducted on June 25, 2008. The field program was carried out under the continuous supervision and direction of Trow field technical staff. Due to open water conditions the sampling methodology was modified to allow for water collection. The samples were collected by lowering a 20 litre food grade plastic pail into the water at the sample sites from a hovering helicopter. Bottles were subsequently filled from the pail, which was rinsed thoroughly with site water before samples were collected.

Surface water samples (including a blind duplicate sample) were sent via courier in a secure cooler under chain of custody to Maxxam Analytics Inc., a CAEAL certified laboratory in Mississauga, Ontario.

The traditional land use activities inventory consisted of pre-flight consultations with Mr. Leo Moonias, a community elder who has spent the majority of his life in the immediate area, and Mr. Sakanee, the local trapper who operates in the exploration sites and adjacent area. It was understood that these two individuals spoke for the entire First Nation Community’s interests. Mapping of the specific traditional activities was accomplished from the air.

Wildlife surveys followed the most recent recommendations from the Ontario Ministry of Natural Resources (MNR) Northwest Science and Information Branch. Transect lines flown west to east and spaced 4 km apart were flown over the study area. It was determined that a raptor nest survey could be accomplished at the same time given the large number of lakes and creeks in the drilling area. First Nation community members participated in the helicopter flights. Several side trips off designated transect lines were undertaken to record specific items that they believed to be of importance. Flights were primarily on February 16, 2008 with final completion on February 18, 2008. To assist with interpretation of the wildlife survey, it is noted that the last snowfall prior to the survey, was on February 11, 2008, four and six days before the transect flights were completed.

### **3.0 WATER QUALITY**

#### **3.1 Surface Water Conditions**

The surface waters can generally be described as clear, which is to be expected from an ice covered lake with little to no water movement in the winter months to create turbidity. A similar assessment was made during the follow-up June open water sampling event.

#### **3.2 Water Quality Guideline Selection**

For the purposes of this report the surface water analytical results (Table 1) have been referenced to the Provincial Water Quality Objectives (PWQO). However, as water nearest DS608 is currently being sourced for consumption by First Nation members during resource harvesting campaigns, the data are also being referenced to the Ontario Drinking Water Standards (ODWS).

#### **3.3 Water Sample Analytical Results**

The results for the surface water samples submitted for analysis are provided on analytical reports in Appendix B and are summarized in Table 1. Note that only the detectable petroleum hydrocarbons and volatile organic compounds appear in Table 1, as all other parameter analysis results were below laboratory detection limits. The reader is referred to Appendix A, which contains the Certificates of Analysis for all parameters tested.

Chemical analyses were conducted by Maxxam Analytics Inc., a CAEAL-certified independent laboratory. Although we have reviewed the results in the context of our expectations, Trow cannot warrant the accuracy of these data.

For QA/QC purposes, Trow collected a blind duplicate sample at BG 1 08 (labelled BG 3 08) during both sampling events for the full surface water parameter list. In general, there is good agreement between duplicate results (i.e. +/- 25%).

Grab sample DS 4 08 experienced field collection difficulties during the February 2008 sampling event in that the entire water column was frozen. Multiple attempts were made to find sufficient water depth to allow a sample to be collected that was not high in sediments, but no such spot could be found. Results of the water analysis reflected the sample taken as demonstrated by elevated levels of turbidity, total suspended solids (TSS), ammonia, aluminum and iron. During the follow-up sampling event in June, 2008 this was not an issue and results better reflected a normal northern Ontario boreal lake with TSS, aluminum and iron below PWQO and ODWS levels.

#### **3.4 Water Quality Discussion**

For the purpose of this investigation BG 1 08 and BG 2 08 can be assumed as background. The downgradient results appear to closely resemble background with a few minor fluctuations.

The results of the lake water chemical analyses revealed only minor exceedances of a limited number of surface water (PWQO) criteria. The exceedances of iron and aluminum at three locations are still considered to be normal with respect to typical northern Ontario lakes and do not represent adverse or impacted conditions.

The detection of trace petroleum products trichloroethylene, ethylbenzene and xylenes is not expected, however, the results are two orders of magnitude lower than the PWQO criteria. Possible sources for these compounds are from the gasoline powered ice-auger used to bore through the ice, plastic pale (summer sampling event), helicopter exhaust downwash while sampling from a hover position or lab error. The elevated values of aluminum and iron at DS 4 08 during the February, 2008 sampling event are most likely biased high as a result of high suspended solids (TSS), as the acid preservative added to the water sample in the field would have served to extract more metals than are normally present in the water. This has been confirmed during the June, 2008 summer sampling event as the results more closely match the remaining sampling locations, including background samples.

Comparison of the results from the sample site DS608, where drinking water is collected during camping activities, to the ODWS has revealed two common exceedances, colour (5 TCUs) and hardness (80 to 100  $\mu\text{g/L}$ ). Both of these parameters are considered as aesthetic parameters and highly variable among surface water bodies. Surficial geology contributes to both colour and calcium carbonate content, which is also described as hardness. The results do not represent any water quality impact as a result of the exploration drilling activities and, in fact, indicates water quality that can be considered as acceptable potable water.

The overall chemical composition of the various lakes appear to be similar in the area of the undertaking as well as to be closely inline with other northern Ontario boreal lakes. This observation holds true during both winter and summer and indicates that the Northern Superior Resources drilling program of 2007 and 2008 were performed without contributing to any adverse changes in water quality.



## **4.0 WILDLIFE EVALUATION**

### **4.1 Featured Wildlife Species**

The Ministry of Natural Resources (MNR) approach to wildlife management is to designate specific species as the target organisms, along with their required habitat, to guide any activities that are proposed in certain areas. This is particularly useful in the southern parts of Ontario where Sustainable Forest Licences (SFL) are in operation to govern timber harvest and renewal activities. Northern Superior Resources mining claims, north of the Lansdowne House area, do not fall within a SFL.

The drilling location does, however, lie within the area of Ontario designated to be managed for woodland caribou and wolverine (G. Racey, MNR, personal communication). This is important to be aware of due to the habitat management implications that likely would be used to guide large scale industrial development proposals, such as a mine.

### **4.2 Woodland Caribou Survey**

No woodland caribou were seen from the transect survey nor was there any evidence of tracking in the snow cover. There had been four days since the last snowfall prior to the survey date, so had there been any animals within the exploration area they would have left some indication. A reasonable explanation as to why the area was void of caribou sign is addressed below in Section 4.3.

### **4.3 Wildlife Habitat Description**

Habitat management considerations are the primary method of featured species management. Both woodland caribou and wolverine reside primarily in mature forest cover, with sufficient available winter habitat being the most important component. The general area north of Lansdowne House demonstrates a fire-generated ecosystem, which is not all that uncommon in the northern Boreal Forest. (Figure 5, Photograph 2).

The habitat mosaic (different age classes of stands determined by fire history) must continually supply winter requirements. Caribou travel, or migrate, on a seasonal basis to gain access to the specific tract of land that provides the necessary requirements. In this regard, as different fires mature, and new fires burn new areas, the distribution of caribou changes from decade to decade. The time between a fire, and the regeneration of the forest to provide suitable winter habitat in this part of Ontario, would be approximately 60 to 80, or more, years.

The Landsat satellite image of the specific mining claims and exploration sites show that recent fire history has removed most habitat that would be considered suitable as winter habitat for woodland caribou and wolverine. The date of the satellite image is either 1999 or 2000, so the fire event evident in Figures 5 and 6 would suggest that this area burned approximately 20 years ago.

Forest fires are the usual events that cause early succession growth and this young forest regeneration is more suitable for moose as opposed to woodland caribou (Photographs 3 and 4). In a general sense, habitat characteristics that support moose are usually exclusive to woodland caribou, which do not usually use an area as winter habitat for approximately 70 years post fire.

#### **4.4 Nest Survey**

Given the recent burn of the exploration area, there were few large trees in which raptors would normally build a nest. The only bald eagle nest that was seen was upon immediate departure from the Lansdowne House airport on Attawapiskat Lake, 30 km away from the mining claims.

#### **4.5 Wildlife and Habitat Discussion**

No sensitive species appear in the area, however, an elder related a story of a wolverine sighting several years ago at the north end of Attawapiskat Lake, 15 km south of the mining claims area. Wolverines are far ranging furbearers who maintain a very large home range, so travel through the area would not be an unusual event. Drilling activities should not cause them concern.

Neither woodland caribou nor tracking evidence were seen during the transect flights in February, 2008. This absence may be explained by the relatively recent forest fire that burned most of the exploration area about 20 years ago. As the forest matures, it would be possible to host caribou in the future, but at the moment, the mining claim area does not represent sensitive winter caribou habitat.

Moose densities appear high given that there are several large historic forest fires in the general region.

## **5.0 FIRST NATION TRADITIONAL LAND USE**

### **5.1 Trapping and Hunting**

First Nation consultation began with a general discussion regarding traditional uses within the mining claims and then specific drill site locations. It can be said that there is clear use of the mining claim area by the local community throughout the calendar year. More precise locations of these activities were mapped with two community members on board the Astar helicopter.

Hunting activities are seasonal and include moose, waterfowl and snowshoe hare (Figure 7). It would appear that specific individuals from the community are the major providers of meat. Of interest is the close parallel between the fire distribution in the exploration mining claims and the locations where they indicated that moose hunting was important. Moose hunting areas will change over time as fire disturbs other areas, but at present, the exploration area functions as a relatively close source for moose hunting activities.

The specific drill locations generally fall within some prime hunting locations. The drill sites and line cutting will enhance the hunting arrangements due to forest regeneration in those disturbances.

Two hunting locations are of a more permanent arrangement in that the existing habitat is more stable. Spring waterfowl hunting occurs at a specific location in the northeast section of the claims area (Figure 7). With a combination of spring thaw and marsh (food) lowlands, the area of waterfowl hunting draws a larger group of community members on a consistent basis. This area is also used in the fall to intercept birds migrating south. A traditional camping site is located a short distance to the south of the prime waterfowl hunting spots (Figure 8).

Snowshoe hare hunting occurs in a specific low lying area that is adjacent to a stand of black spruce, which is relatively resilient to fire disturbance. No exploration drilling work is scheduled for this area at this time (Figure 7).

There are no trapping cabins within the exploration area with the closest one belonging to Mr. Rod Sakanee situated to the east of the mining claims. His greatest activity is located to the south west of the drill rig locations but still falls within the group of claims (Figure 7). A small area in the northeast corner of the claims, where the species trapped are beaver and muskrat, is near the drill operations. Most trapping activity for these species of fur bearers is the late fall, when the drill rigs are not operating, so conflicts should be minimal.

### **5.2 Travel**

First Nation Community members travel throughout the exploration area (Figure 9). There are long-established trails, used throughout the year, that provide access to traditional activities like fishing, hunting and trapping. At the moment, there are no drilling activities proposed that would appear to be in conflict with the use of these traditional travel routes.

### **5.3 Fishing**

Lakes within the exploration area provide warm water fisheries, where walleye, whitefish and northern pike represent the target harvest species. There are no trout or salmonid species in the immediate exploration area.



Fishing appears to be an activity of many community members and their entire families (Figure 10). Likely restricted to the open water season, fishing camps are established on lakes that provide the desired fish species (Figure 8). The current drill sites, all operating on land, would not appear to have an affect on any lake ecosystem.





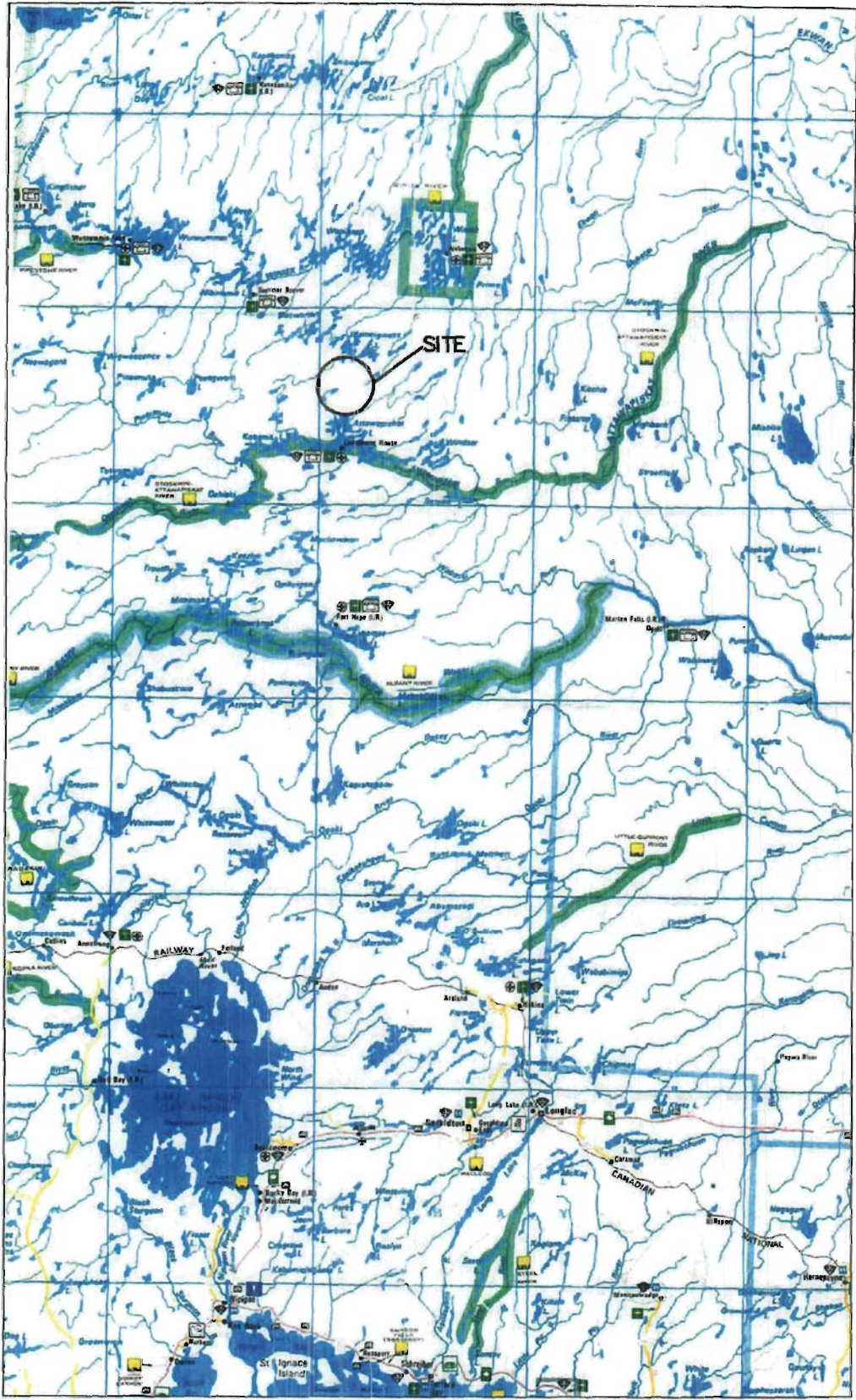
## **6.0 SUMMARY**

Neskantaga First Nation Community has developed many traditional land uses in the general area. They have learned to capitalise on the moose hunting opportunities that result from forest fire activity in the exploration area, but the presence of drilling activity should not compromise their success. Waterfowl hunting and snowshoe hare hunting occur on a seasonal basis but in specific areas not directly associated with current drilling operations. Fishing is a traditional activity that is concentrated in specific lakes throughout the area of exploration.

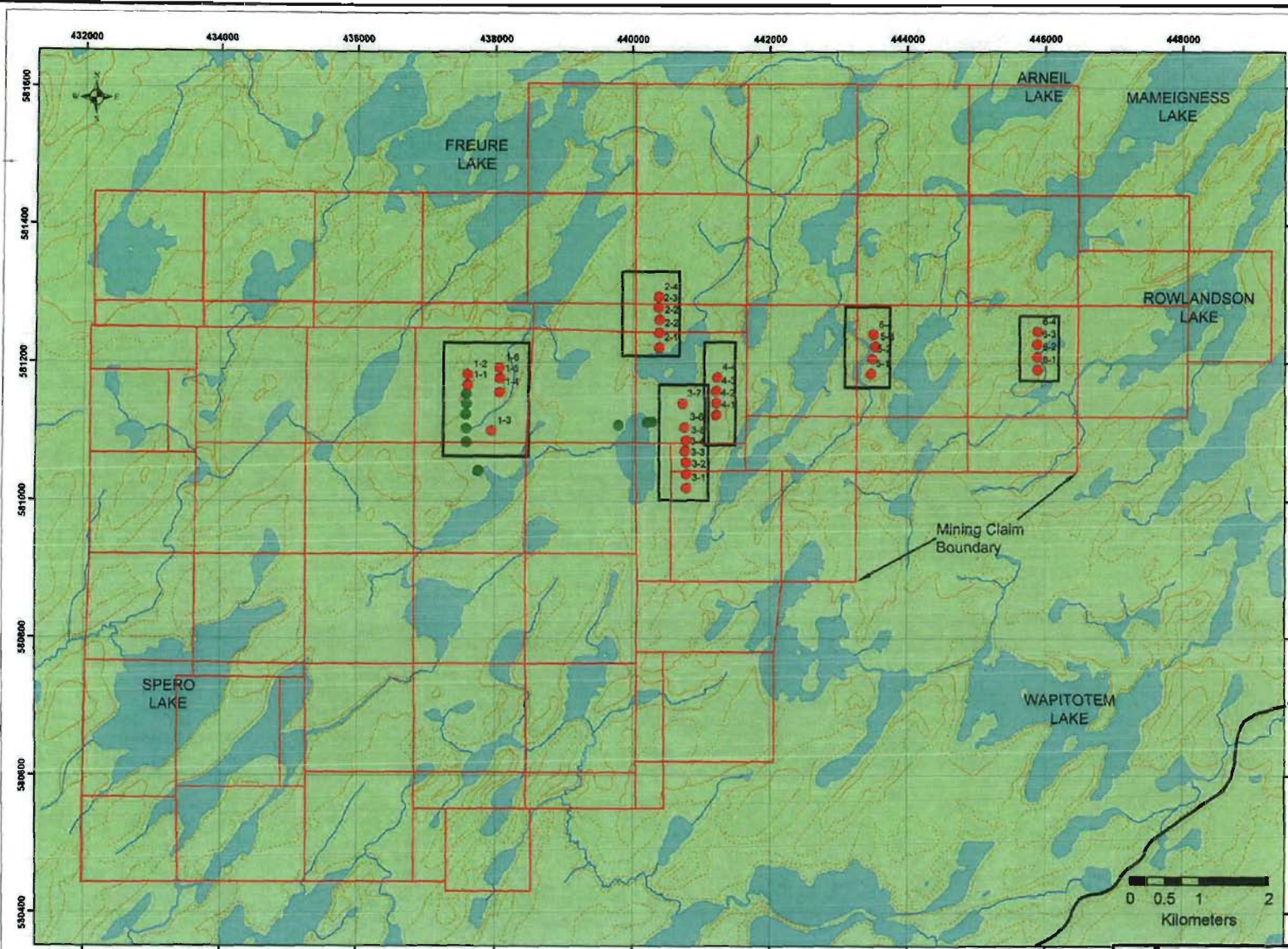
Water quality exceedances of PWQO and ODWS criteria were very few and relatively minor in both winter (pre-drilling) and summer (post-drilling) sampling events. The exceedances are attributable to either natural conditions or sediment in the samples (winter). The data also show that no exceedances are attributable to the drilling activities. Therefore, the drilling program has had no impact on the water quality.



## Figures



 <b>Trow Associates Inc.</b> Thunder Bay, Ontario	<b>FIGURE</b> 1
	PROJECT NO.: F-08106-A/E SCALE: 1:1,500,000 DRAWN BY: CP CHECKED BY: RW DATE: AUG. 21, 2008
<b>SITE LOCATION PLAN</b> Ti-pa-haa-kaa-ning Gold Project North of Lansdowne House Northern Superior Resources Inc.	



**Legend**  
 ● 2008 Drilling  
 ● 2007 Drilling

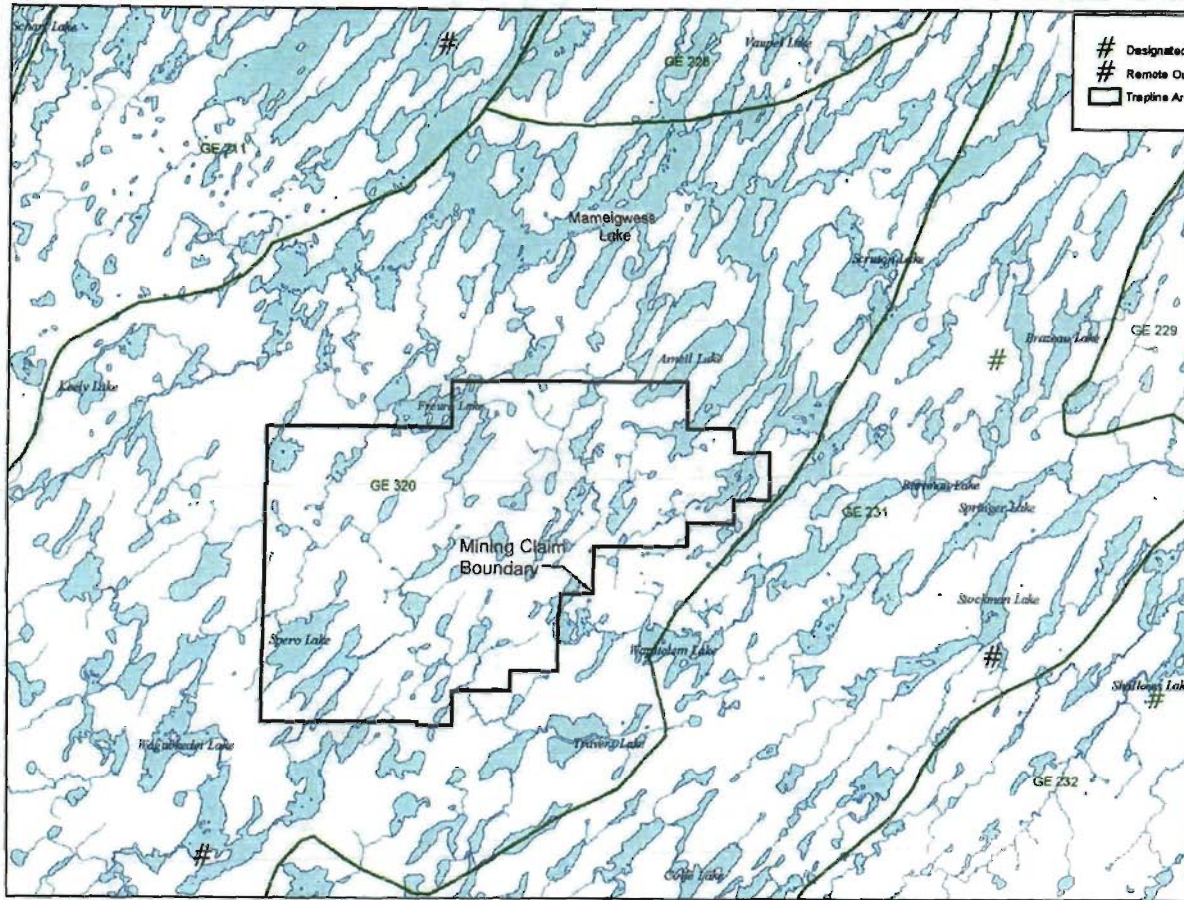


 <b>Trow Associates Inc.</b> Thunder Bay, Ontario	<b>FIGURE 2</b>	
	PROJECT NO.: F-08106-A/E SCALE: AS SHOWN DRAWN BY: DT CHECKED BY: CP DATE: AUG. 21, 2008	
<b>DRILL SITE LOCATIONS</b> Ti-pa-haa-kaa-ning Gold Project North of Lansdowne House Northern Superior Resources Inc.		

REFERENCE: PLAN PROVIDED BY CLIENT.

# Values Information - Nipigon District NRVIS Feb. 2008

0 2 4 6 Kilometers



# Designated Camping Site  
 # Remote Outpost  
 [ ] Trappine Area

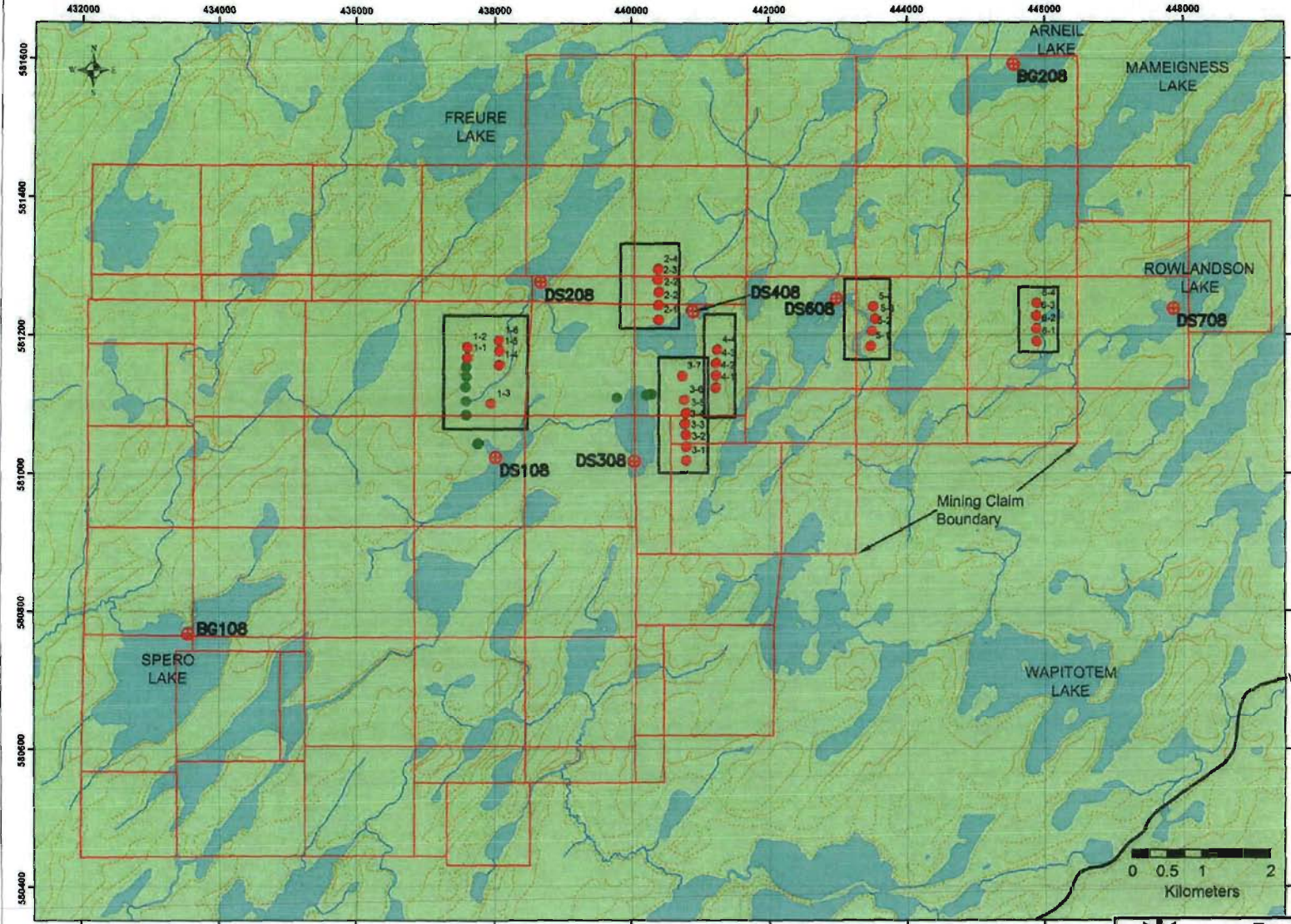
Scale  
 1:185,000

2

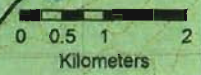
Map is for illustrative purposes only. Data from NRVIS data 2008.


 Trow Associates Inc. Thunder Bay, Ontario	FIGURE
	3
PROJECT NO.: F-08106-A/E	
SCALE: AS SHOWN	
DRAWN BY: DT	
CHECKED BY: CP	
DATE: AUG. 21, 2008	
MNR Natural Resource Values Information System (NRVIS) Ti-pa-haa-kaa-ning Gold Project North of Lansdowne House Northern Superior Resources Inc.	

REFERENCE: MINISTRY OF NATURAL RESOURCES VALUES INFORMATION SYSTEM MAPS (NIPIGON DISTRICT-FEB. 2008).

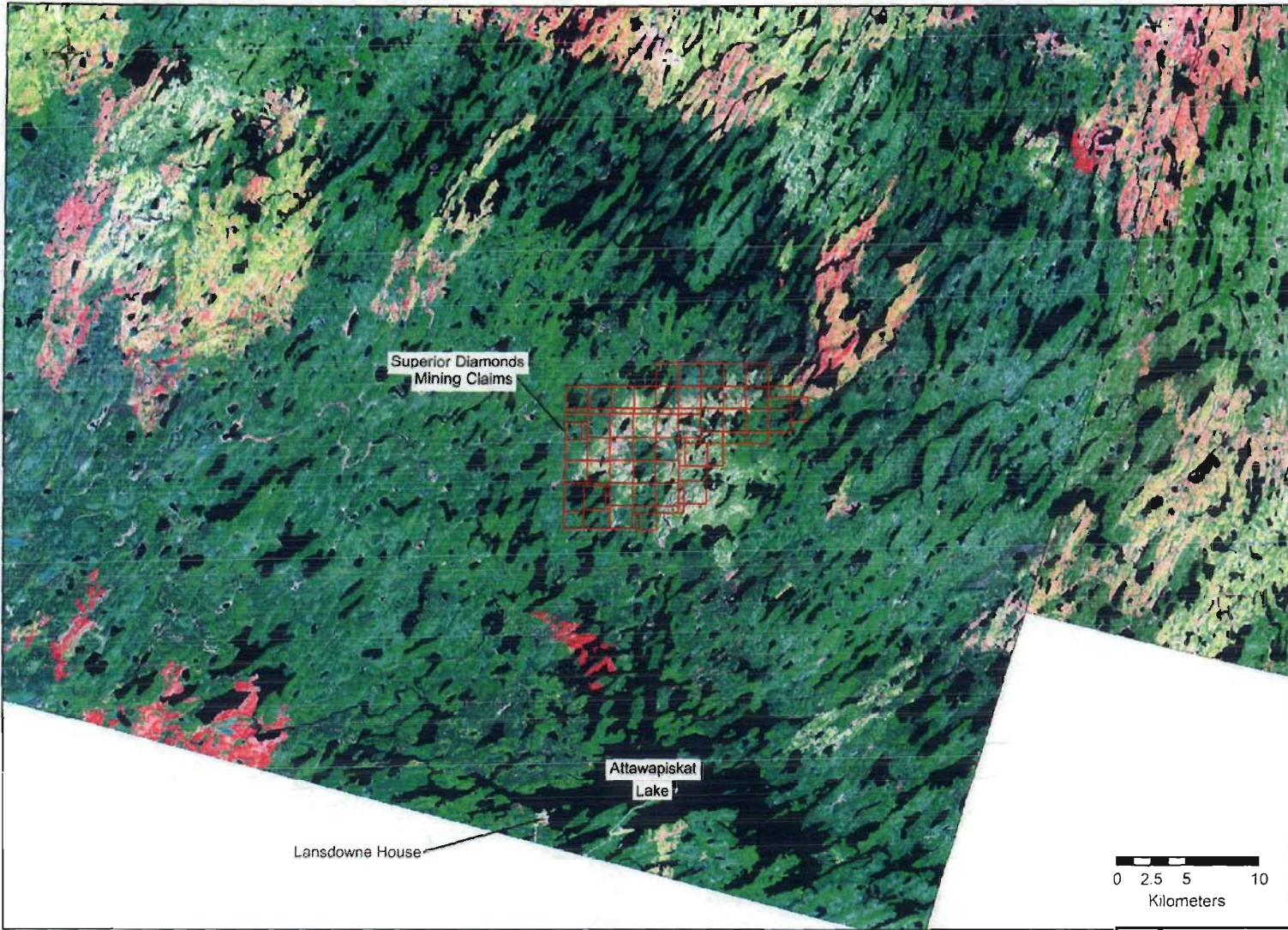


- Legend**
- 2008 Drilling
  - 2007 Drilling
  - ⊕ SURFACE WATER SAMPLE LOCATION
- BG108**



 <b>Trow Associates Inc.</b> Thunder Bay, Ontario	<b>FIGURE</b> 4
	PROJECT NO. F-08106-A/E SCALE: AS SHOWN DRAWN BY: CP CHECKED BY: RW DATE: AUG. 21, 2008
<b>SURFACE WATER SAMPLE LOCATION PLAN</b> Ti-pa-hea-kaa-ning Gold Project North of Lansdowne House Northern Superior Resources Inc.	

REFERENCE: PLAN PROVIDED BY CLIENT.



**LEGEND:**

- UNBURNED
- 0-20 YEAR OLD FIRE
- 20-40 YEAR OLD FIRE
- 40+ YEAR OLD FIRE

REFERENCE: MNDM LANDSAT IMAGERY (1999-2000).



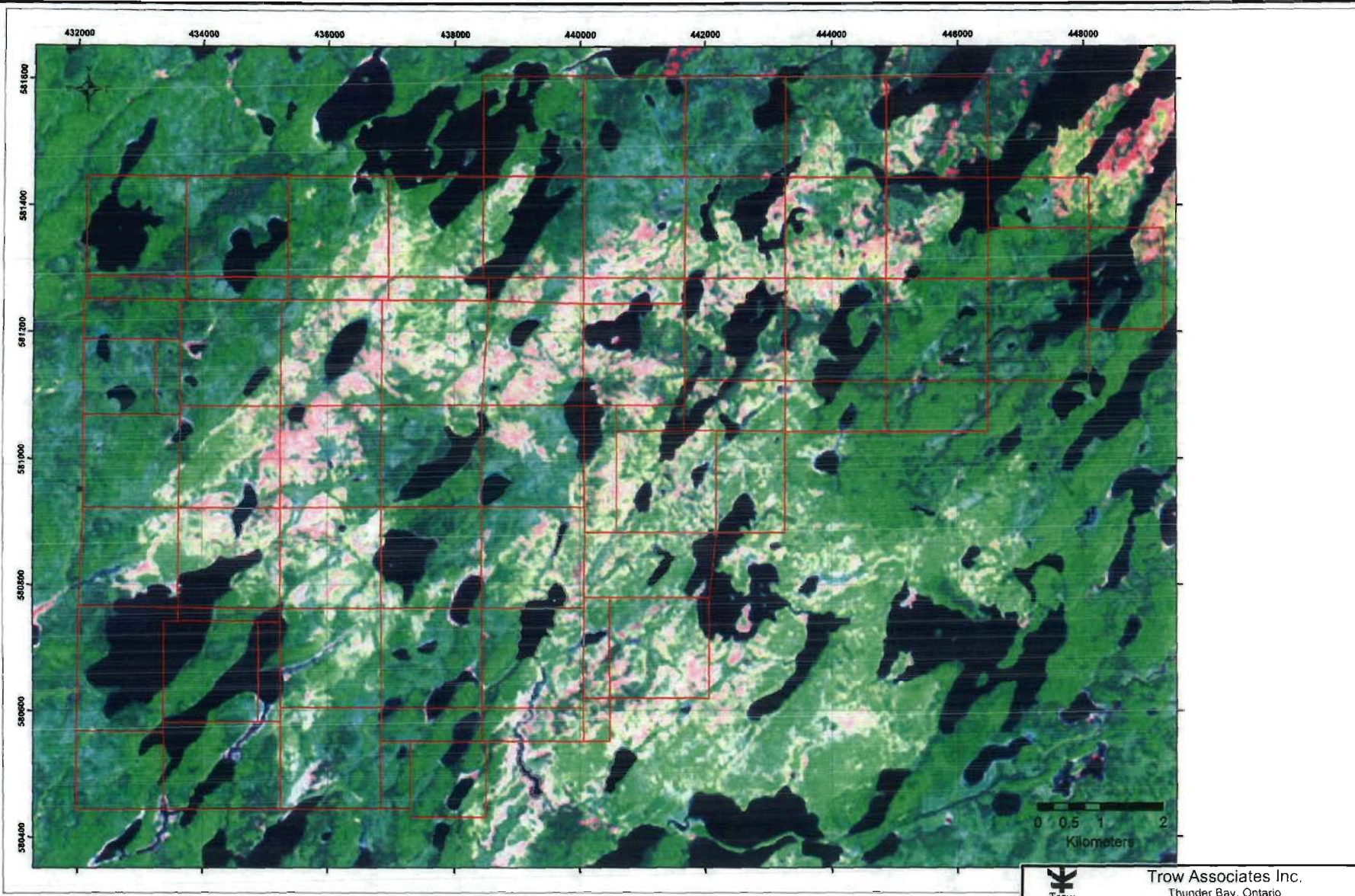
Trow Associates Inc.  
Thunder Bay, Ontario

FIGURE  
5

**LANDSAT IMAGE  
REGIONAL FIRE HISTORY**

Ti-pa-haa-kaa-ning Gold Project  
North of Lansdowne House  
Northern Superior Resources Inc.

PROJECT NO:	F-08108-A/E
SCALE:	AS SHOWN
DRAWN BY:	DT/CP
CHECKED BY:	RW
DATE:	AUG. 21, 2008



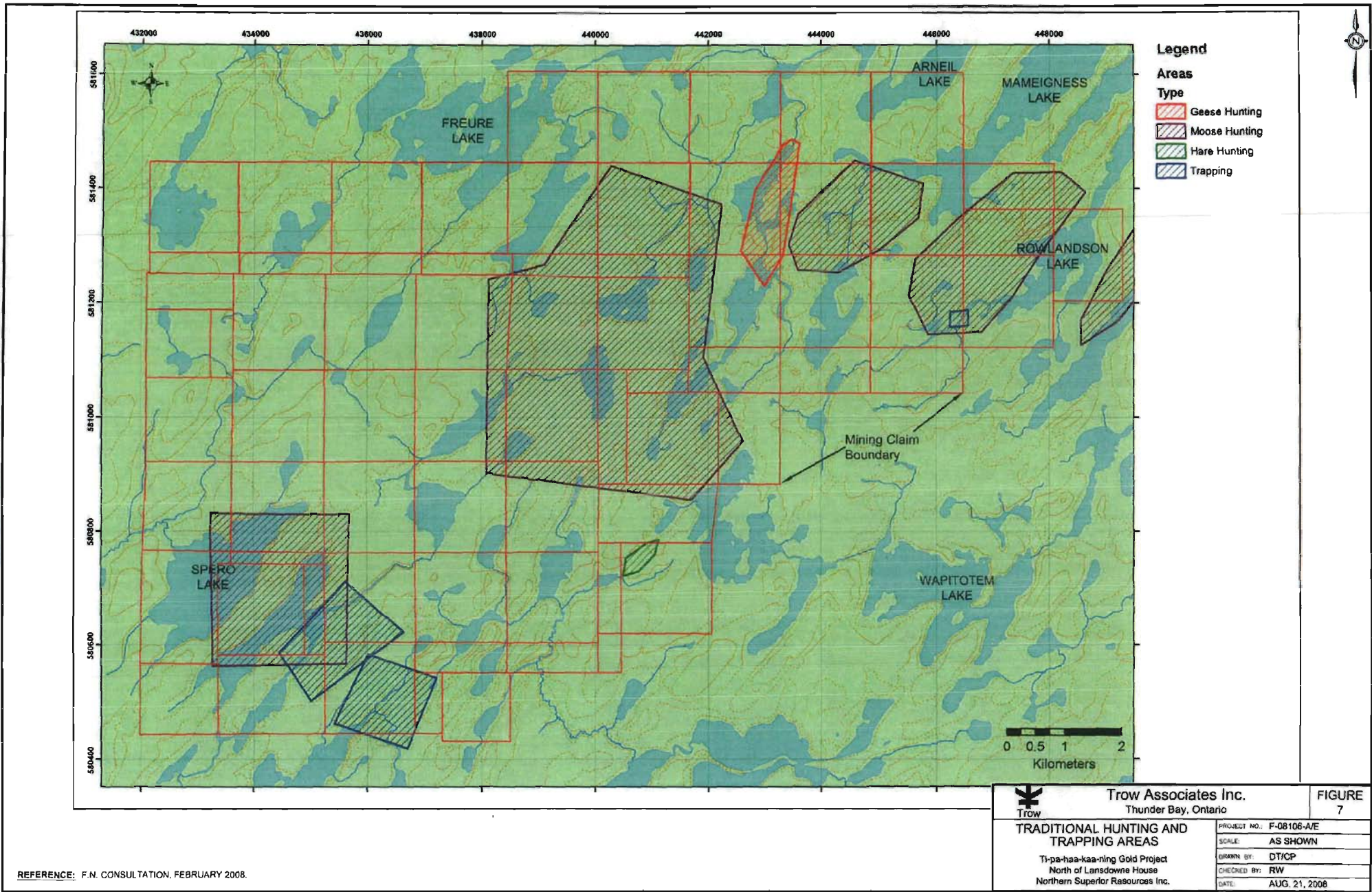
**LEGEND:**

- UNBURNED
  - 0-20 YEAR OLD FIRE
- 20-40 YEAR OLD FIRE
  - 40+ YEAR OLD FIRE

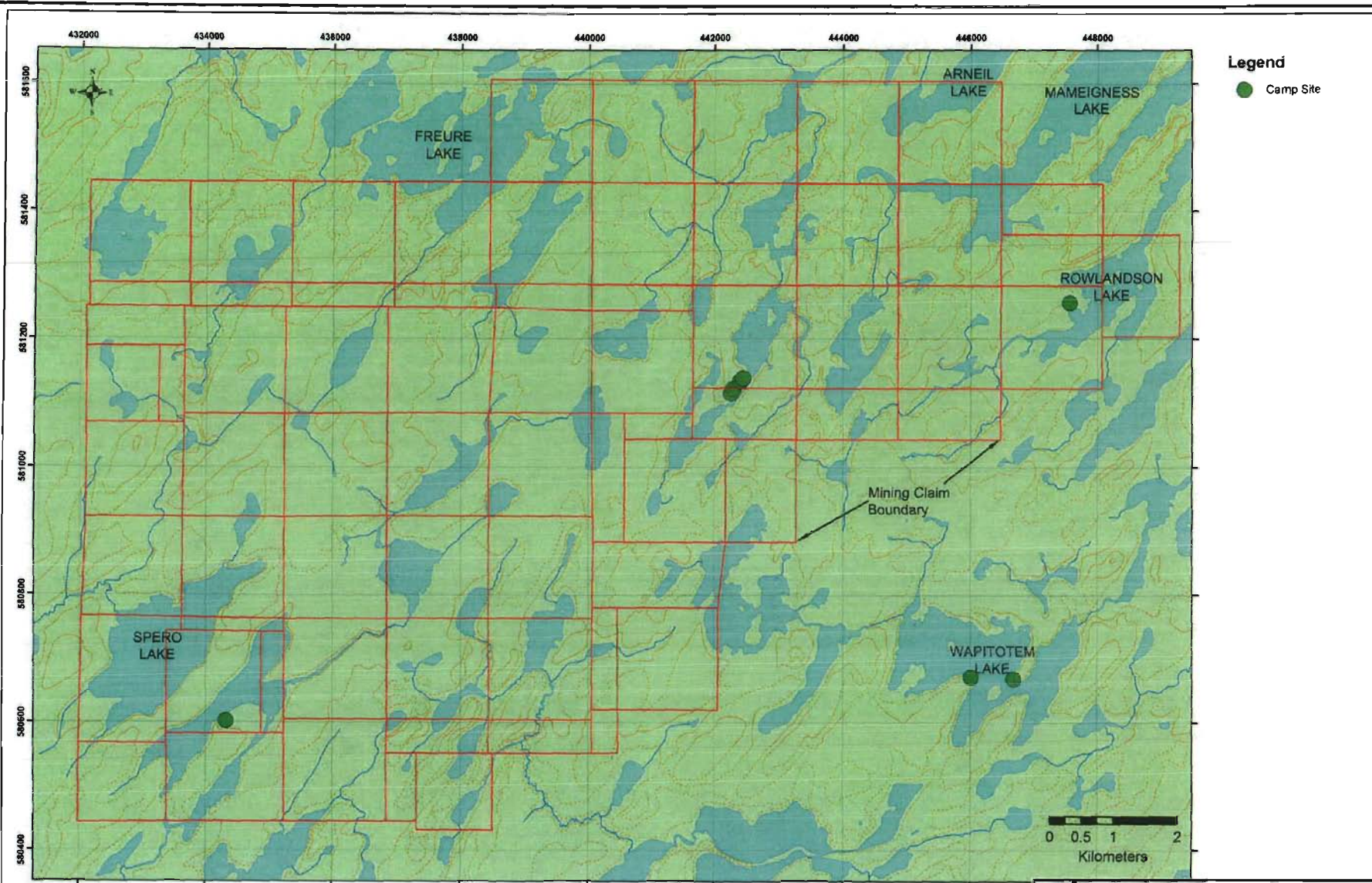
REFERENCE: MNDM LANDSAT IMAGERY (1999-2000).

 <b>Trow</b>	<b>Trow Associates Inc.</b> Thunder Bay, Ontario	<b>FIGURE</b> 6
	<b>LANDSAT CLOSE-UP</b> <b>MINING CLAIMS FIRE HISTORY</b> Ti-pa-haa-kaa-ning Gold Project North of Lansdowne House Northern Superior Resources Inc.	
PROJECT NO: F-08106-A/E SCALE: AS SHOWN DRAWN BY: DT/CP CHECKED BY: RW DATE: AUG. 21, 2008		





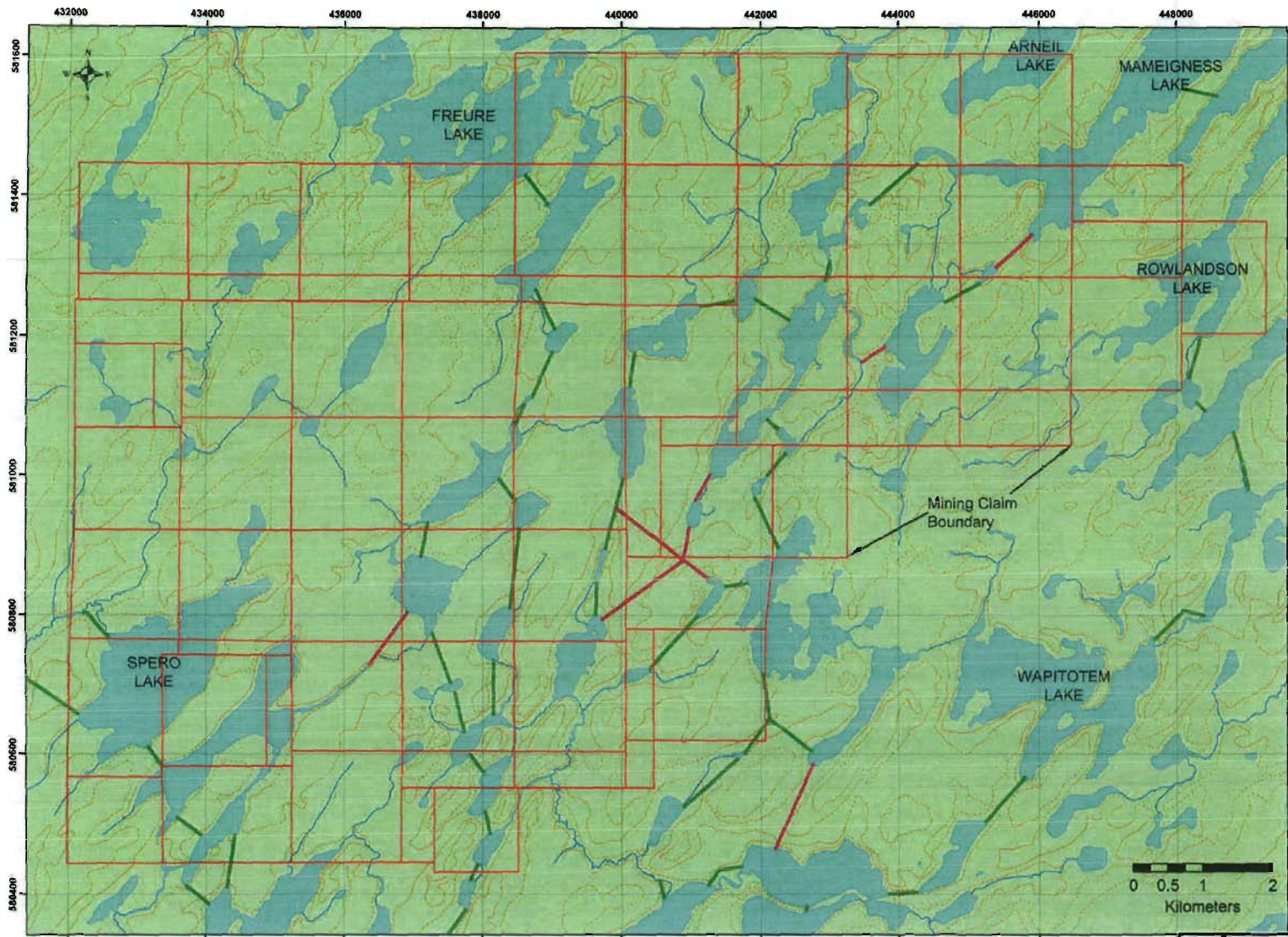
REFERENCE: F.N. CONSULTATION, FEBRUARY 2008.



**Legend**  
 ● Camp Site

 <b>Trow Associates Inc.</b> Thunder Bay, Ontario	<b>FIGURE 8</b>	
	<b>TRADITIONAL CAMP SITES</b> Ti-pa-haa-kaa-ning Gold Project North of Lansdowne House Northern Superior Resources Inc.	PROJECT NO: F-08108-A/E SCALE: AS SHOWN DRAWN BY: DT/CP CHECKED BY: RW DATE: AUG. 21, 2008

REFERENCE: F.N. CONSULTATION, FEBRUARY 2008.



**Legend**

**Trails**

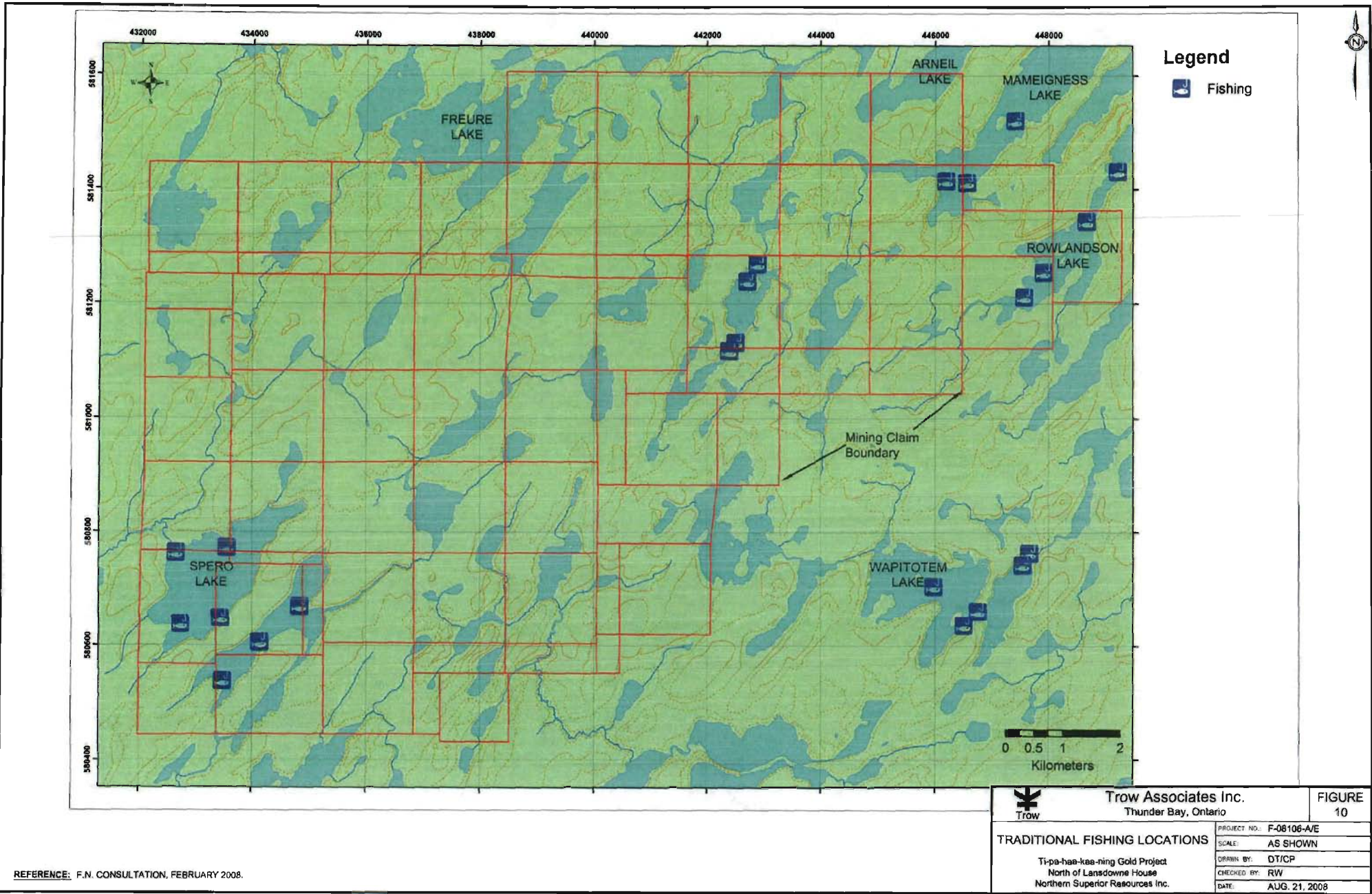
**Type**

- SNOWMOBILE TRAIL
- PORTAGE



REFERENCE: F.N. CONSULTATION, FEBRUARY 2008.

 <b>Trow</b>	<b>Trow Associates Inc.</b> Thunder Bay, Ontario		<b>FIGURE</b> 9
	PROJECT NO: F-08106-A/E		
SCALE: AS SHOWN			
DRAWN BY: DTJCP			
CHECKED BY: RW			
DATE: AUG. 21, 2008			
<b>TRADITIONAL TRAILS</b> Ti-pa-haa-kaa-ning Gold Project North of Lansdowne House Northern Superior Resources Inc.			



REFERENCE: F.N. CONSULTATION, FEBRUARY 2008.



**Table 1**  
**Surface Water Quality Results**

F-08108-A/E Northern Superior Resources Inc. July 14, 2008		PWQO <sup>1</sup>	ODWS <sup>2</sup>	Table 1: Surface Water Results <sup>3</sup>																	
				DS 1 08		DS 2 08		DS 3 08		DS 4 08 <sup>5</sup>		DS 6 08		DS 7 08		BG 1 08		BG 3 08 <sup>4</sup>		BG 2 08	
				February 17/2008	June 25/2008	February 17/2008	June 25/2008	February 17/2008	June 25/2008	February 17/2008	June 25/2008	February 17/2008	June 25/2008	February 17/2008	June 25/2008	February 17/2008	June 25/2008	February 17/2008	June 25/2008	February 17/2008	June 25/2008
<b>General Parameters</b>																					
pH	8.5 to 8.5	8.5 to 8.5	7.8	7.7	7.9	7.8	7.3	7.4	7.8	7.6	8.1	8.1	8.1	8	7.8	7.8	7.9	7.8	7.9	8	
Conductivity (uS/cm)			84	64	116	82	88	36	185	47	266	143	285	127	118	74	116	74	136	116	
Colour (TCUs)		5	120	40	110	76	220	39	62	49	56	35	76	36	59	40	61	39	13	8	
Chloride		250	2	1	2	1	<5	1	1	<1	2	1	2	1	2	1	2	<1	<1	<1	
Sulphate		600	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Alkalinity		30 to 600	40	31	57	41	40	15	92	23	131	74	151	66	55	37	57	38	66	61	
Turbidity		5	1.1	1.2	1.3	1.3	1.1	1.2	55.6	1.4	0.8	1.2	0.9	1.2	1.4	1.5	1.3	1.3	0.7	0.6	
TSS			<1	2	<1		1	2	500	2	<1	1	2	3	1	2	2	2	<1	3	
Hardness		80 to 100	47	35	63	45	48	20	85	25	140	76	150	68	57	39	59	39	67	61	
Phosphorous (Total)			0.022	0.059	0.013	0.031	0.019	0.032	0.25	0.045	0.016	0.033	0.012	0.072	0.018	0.025	0.024	0.026	0.01	0.024	
<b>Organics</b>																					
Total Ammonia-N			<0.05	0.1	<0.05	0.05	0.71	0.13	2.71	0.11	0.06	0.09	1.24	0.1	0.12	0.08	0.15	0.07	<0.05	<0.05	
Ammonia (un-ionized)	0.02		0.0002	--	0.0002	--	0.002	--	0.022	--	0.0005	--	0.01	--	0.001	--	0.001	--	0.0002	--	
Nitrate [NO3-N]		10	0.2	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	
Nitrite [NO2-N]		1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Orthophosphate			<0.01	0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
TOC			19.7	12	19.5	11.5	33	12.3	28.5	12.6	14.4	10.5	15.6	11.5	17.5	12.2	18.3	12.2	6.4	6.4	
<b>Metals</b>																					
Aluminum	0.075	0.1	0.050	0.058	0.046	0.043	<b>0.140</b>	0.067	<b>0.540</b>	0.056	0.016	0.033	0.015	0.020	0.028	0.020	0.027	0.025	0.005	0.012	
Antimony		0.006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Arsenic	0.1 (0.005)	0.025	0.003	0.002	0.002	0.001	0.005	0.002	0.015	0.002	0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Barium		1	0.007	0.005	0.008	0.006	0.011	<0.005	0.069	<0.005	0.015	0.010	0.025	0.010	0.011	0.006	0.012	0.007	0.012	0.010	
Beryllium	0.011		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Boron	0.2	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Cadmium	0.0002 (0.0001)	0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	
Calcium			14	11	19	14	16	6.2	31	7.5	42	23	45	20.9	17	11.6	18	11.6	21.0	18.5	
Chromium		0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	
Cobalt	0.0008		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Copper	0.005	1	<0.001	0.001	<0.001	0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	0.002	<0.001	<0.001	<0.001	
Iron	0.3	0.3	0.180	0.110	0.110	<0.1	<b>0.550</b>	0.110	2.8	<0.1	<0.1	0.100	<b>0.580</b>	<0.1	0.100	0.170	<0.1	0.210	<0.1	<0.1	
Lead	narrative <sup>6</sup>	0.01	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	0.0034	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Magnesium			3	2.13	3.9	2.7	3.0	1.2	5.3	1.5	8.0	4.4	8.2	3.9	3.7	2.5	3.9	2.5	4.1	3.6	
Manganese		0.05	0.010	0.013	0.007	0.004	0.054	0.005	0.330	0.006	0.006	0.025	0.091	0.012	0.015	0.013	0.014	0.015	<0.002	0.010	
Mercury	0.0002	0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Molybdenum			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Nickel	0.025		<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Potassium			0.560	<1	0.860	<1	0.640	<0.001	1.7	<1	1.8	<1	1.9	<1	1.3	<1	1.2	<1	0.44	<1	
Selenium	0.1	0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Silica			1.4	1.2	2.5	1.5	2.0	0.3	3.9	0.1	2.8	1.4	3.7	0.59	0.56	0.23	0.59	0.29	1.3	1.2	
Silver	0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Sodium		200	0.690	<0.5	0.790	0.600	0.660	<0.5	0.940	<0.5	1.2	0.7	1.3	0.6	1.5	0.5	1.3	0.5	0.77	0.60	
Thallium	0.0003		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Tungsten			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Uranium	0.005	0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.001	0.003	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Vanadium	0.006		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Zinc	0.02	5	0.008	0.007	<0.005	<0.005	0.006	<0.005	0.013	<0.005	0.011	0.011	<0.005	<0.005	0.014	<0.005	0.012	<0.005	<0.005	<0.005	
Zirconium	0.02 (0.004)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
<b>VOCs</b>																					
Trichloroethylene	0.02	0.05	--	0.0002	--	0.0002	--	0.0002	--	0.0002	--	0.0002	--	0.0002	--	0.0002	--	0.0001	--	0.0002	
Ethylbenzene	0.008	0.0024	--	<0.0001	--	<0.0001	--	<0.0001	<0.0001	<0.0001	--	<0.0001	--	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	
p/m-Xylene	0.05	0.3	--	0.0002	--	0.0002	--	0.0002	<0.0001	<0.0001	--	0.0001	--	0.0003	0.0002	<0.0001	0.0002	<0.0001	0.0006	0.0002	
o-Xylene	0.04		--	<0.0001	--	<0.0001	--	<0.0001	<0.0001	<0.0001	--	<0.0001	--	0.0001	0.0001	<0.0001	0.0003	<0.0001	0.0009	<0.0001	

**General Notes for Table 1**

1. PWQO: Provincial Water Quality Objectives (PWQO), MOE (updated February 1999). Exceedances indicated in **bold** type face.
2. ODWS: Ontario Drinking Water Standards (ODWS), MOE (June, 2003). Exceedances indicated underlined type face.
3. All results are in mg/L unless otherwise stated.
4. The surface water results of BG 3 08 in Table 1 are a blind duplicate of BG 1 08 (during both sampling events).
5. DS 4 08 (February results) included lake bottom sediments that may have reacted with acid preservative to dissolve additional metals than would otherwise not be present.
6. Based on hardness (mean range of



**Photographs**

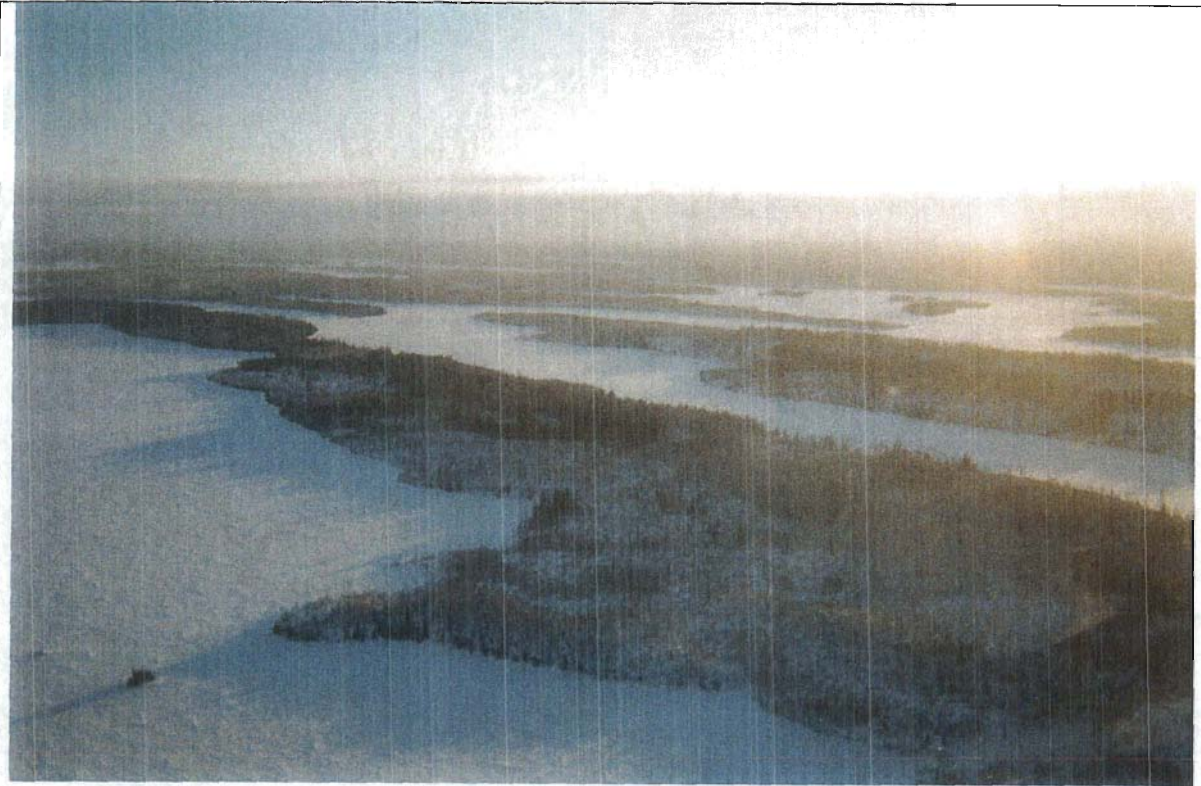


**Photo 1: General flat topography typical of the Hudson Bay Lowlands. DS408 site pictured.**



**Photo 2: Early fire succession growth throughout exploration area.**





**Photo 3: Young forest regeneration following fire provides excellent moose habitat.**



**Photo 4: Moose on edge of fire regeneration next to winter cover.**



**Appendix A**  
**Laboratory Certificates of Analysis**

Your Project #: F-08106  
Site: LANSDOWNE HOUSE  
Your C.O.C. #: 67322-01

**Attention: Chris Perusse**

Trow Associates Inc  
Thunder Bay Branch  
1142 Roland St  
Thunder Bay, ON  
P7B 5M4

Report Date: 2008/02/27

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: A816432**

**Received: 2008/02/20, 08:53**

Sample Matrix: Water  
# Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Alkalinity	4	N/A	2008/02/21	CAM SOP-00448	SM 2320B
Alkalinity	5	N/A	2008/02/22	CAM SOP-00448	SM 2320B
Carbonate, Bicarbonate and Hydroxide	4	N/A	2008/02/22		
Carbonate, Bicarbonate and Hydroxide	5	N/A	2008/02/25		
Chloride by Automated Colourimetry	9	N/A	2008/02/26	CAM SOP-00463	SM 4500 Cl E
Colour	7	N/A	2008/02/25	CAM SOP-00412	APHA 2120
Colour	2	N/A	2008/02/26	CAM SOP-00412	APHA 2120
Conductivity	4	N/A	2008/02/21	CAM SOP-0414	SM 2510
Conductivity	5	N/A	2008/02/22	CAM SOP-0414	SM 2510
Petroleum Hydro. CCME F1 & BTEX in Water	4	N/A	2008/02/22	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	4	2008/02/20	2008/02/20	CAM SOP-00316	CCME Hydrocarbons
Hardness (calculated as CaCO3)	9	N/A	2008/02/26	CAM SOP 0102	SM 2340 B
Mercury	9	2008/02/22	2008/02/22	CAM SOP-00453	EPA 7470
Lab Filtered Metals Analysis by ICP	9	2008/02/25	2008/02/26	CAM SOP-00408	EPA 6010
Total Metals Analysis by ICPMS	9	N/A	2008/02/22	CAM SOP-00447	EPA 6020
Ammonia-N	2	N/A	2008/02/25	CAM SOP-00441	US GS I-2522-90
Ammonia-N	7	N/A	2008/02/26	CAM SOP-00441	US GS I-2522-90
Nitrate (NO3) and Nitrite (NO2) in Water	9	N/A	2008/02/22	CAM SOP-00440	SM 4500 NO3 I
pH	4	N/A	2008/02/21	CAM SOP-00448	SM 4500H
pH	5	N/A	2008/02/22	CAM SOP-00448	SM 4500H
Orthophosphate	9	N/A	2008/02/26	CAM SOP-00461	SM 4500 P-F
Sat. pH and Langelier Index (@ 20C)	9	N/A	2008/02/26		
Sat. pH and Langelier Index (@ 4C)	9	N/A	2008/02/26		
Sulphate by Automated Colourimetry	9	N/A	2008/02/26	CAM SOP-00464	EPA 375.4
Total Organic Carbon (TOC)	6	N/A	2008/02/22	CAM SOP-00446	EPA 415.1 modified
Total Organic Carbon (TOC)	3	N/A	2008/02/25	CAM SOP-00446	EPA 415.1 modified
Total Phosphorus (Colourimetric)	9	2008/02/25	2008/02/26	CAM SOP-00407	APHA 4500 P,B,F
Low Level Total Suspended Solids	6	N/A	2008/02/21	CAM SOP-00428	SM 2540D
Low Level Total Suspended Solids	3	N/A	2008/02/22	CAM SOP-00428	SM 2540D
Turbidity	9	N/A	2008/02/20	CAM SOP-00417	APHA 2130
Volatile Organic Compounds in Water	4	N/A	2008/02/21	CAM SOP-00226	EPA 8260 modified

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

Your Project #: F-08106  
Site: LANSDOWNE HOUSE  
Your C.O.C. #: 67322-01

**Attention: Chris Perusse**

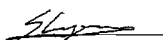
Trow Associates Inc  
Thunder Bay Branch  
1142 Roland St  
Thunder Bay, ON  
P7B 5M4

**Report Date: 2008/02/27**

**CERTIFICATE OF ANALYSIS**

-2-

Encryption Key



Sam Lyons

27 Feb 2008 15:00:40 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

SAMANTHA LYONS, Project Manager  
Email: [samantha.lyons@maxxamanalytics.com](mailto:samantha.lyons@maxxamanalytics.com)  
Phone# (905) 817-5700 Ext:5797

=====  
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE  
Sampler Initials:

**OREG 153 PETROLEUM HYDROCARBONS (WATER)**

Maxxam ID		X25981	X25984	X25985	X25985		
Sampling Date		2008/02/17	2008/02/17	2008/02/17	2008/02/17		
COC Number		67322-01	67322-01	67322-01	67322-01		
	<b>Units</b>	<b>DS 4 08</b>	<b>BG 1 08</b>	<b>BG 2 08</b>	<b>BG 2 08 Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>

<b>F1 PHC and BTEX</b>							
F1 (C6-C10)	ug/L	<100	<100	<100		100	1462048
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100		100	1462048
<b>F2-F4 PHC</b>							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	1461194
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	1461194
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	1461194
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		1461194
<b>Surrogate Recovery (%)</b>							
1,4-Difluorobenzene	%	98	98	99			1462048
4-Bromofluorobenzene	%	96	95	97			1462048
D10-Ethylbenzene	%	94	94	94			1462048
D4-1,2-Dichloroethane	%	102	102	104			1462048
o-Terphenyl	%	83	83	81	82		1461194

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE  
Sampler Initials:

**OREG 153 PETROLEUM HYDROCARBONS (WATER)**

Maxxam ID		X25986		
Sampling Date		2008/02/17		
COC Number		67322-01		
	<b>Units</b>	<b>BG 3 08</b>	<b>RDL</b>	<b>QC Batch</b>

<b>F1 PHC and BTEX</b>				
F1 (C6-C10)	ug/L	<100	100	1462048
F1 (C6-C10) - BTEX	ug/L	<100	100	1462048
<b>F2-F4 PHC</b>				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	1461194
F3 (C16-C34 Hydrocarbons)	ug/L	<100	100	1461194
F4 (C34-C50 Hydrocarbons)	ug/L	<100	100	1461194
Reached Baseline at C50	ug/L	Yes		1461194
<b>Surrogate Recovery (%)</b>				
1,4-Difluorobenzene	%	98		1462048
4-Bromofluorobenzene	%	96		1462048
D10-Ethylbenzene	%	93		1462048
D4-1,2-Dichloroethane	%	104		1462048
o-Terphenyl	%	84		1461194

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE  
Sampler Initials:

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		X25978		X25979		
Sampling Date		2008/02/17		2008/02/17		
COC Number		67322-01		67322-01		
	Units	DS 1 08	RDL	DS 2 08	RDL	QC Batch

Calculated Parameters						
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	40	1	57	1	1460422
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	<1	1	1460422
Hardness (CaCO3)	mg/L	47	1	63	1	1460423
Langelier Index (@ 20C)	N/A	-0.797	N/A	-0.412	N/A	1460427
Langelier Index (@ 4C)	N/A	-1.05	N/A	-0.664	N/A	1460428
Saturation pH (@ 20C)	N/A	8.55	N/A	8.28	N/A	1460427
Saturation pH (@ 4C)	N/A	8.81	N/A	8.53	N/A	1460428
INORGANICS						
Total Ammonia-N	mg/L	<0.05	0.05	<0.05	0.05	1462503
Conductivity	umho/cm	84	2	116	2	1462732
Total Organic Carbon (TOC)	mg/L	19.7	0.1	19.5	0.1	1462235
Orthophosphate (P)	mg/L	<0.01	0.01	<0.01	0.01	1463671
pH	pH	7.8		7.9		1462731
Total Phosphorus	mg/L	0.022	0.004	0.013	0.002	1463208
Dissolved Sulphate (SO4)	mg/L	<1	1	<1	1	1463669
Turbidity	NTU	1.1	0.1	1.3	0.1	1460918
Alkalinity (Total as CaCO3)	mg/L	40	1	57	1	1462733
Dissolved Chloride (Cl)	mg/L	2	1	2	1	1463667
Nitrite (N)	mg/L	<0.01	0.01	<0.01	0.01	1461674
Nitrate (N)	mg/L	0.2	0.1	0.4	0.1	1461674
METALS						
Dissolved Calcium (Ca)	mg/L	14.1	0.05	19.2	0.05	1463370
Dissolved Magnesium (Mg)	mg/L	2.77	0.05	3.70	0.05	1463370
Dissolved Potassium (K)	mg/L	<1	1	<1	1	1463370
Dissolved Sodium (Na)	mg/L	0.7	0.5	0.8	0.5	1463370
Total Aluminum (Al)	ug/L	50	5	46	5	1462188
Total Antimony (Sb)	ug/L	<0.5	0.5	<0.5	0.5	1462188
Total Arsenic (As)	ug/L	3	1	2	1	1462188
Total Barium (Ba)	ug/L	7	5	8	5	1462188
Total Beryllium (Be)	ug/L	<0.5	0.5	<0.5	0.5	1462188
Total Boron (B)	ug/L	<10	10	<10	10	1462188
Total Cadmium (Cd)	ug/L	<0.1	0.1	<0.1	0.1	1462188

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE  
Sampler Initials:

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		X25978		X25979		
Sampling Date		2008/02/17		2008/02/17		
COC Number		67322-01		67322-01		
	Units	DS 1 08	RDL	DS 2 08	RDL	QC Batch
Total Calcium (Ca)	ug/L	14000	200	19000	200	1462188
Total Chromium (Cr)	ug/L	<5	5	<5	5	1462188
Total Cobalt (Co)	ug/L	<0.5	0.5	<0.5	0.5	1462188
Total Copper (Cu)	ug/L	<1	1	<1	1	1462188
Total Iron (Fe)	ug/L	180	100	110	100	1462188
Total Lead (Pb)	ug/L	<0.5	0.5	<0.5	0.5	1462188
Total Magnesium (Mg)	ug/L	3000	50	3900	50	1462188
Total Manganese (Mn)	ug/L	10	2	7	2	1462188
Total Molybdenum (Mo)	ug/L	<1	1	<1	1	1462188
Total Nickel (Ni)	ug/L	<1	1	<1	1	1462188
Total Potassium (K)	ug/L	560	200	860	200	1462188
Total Selenium (Se)	ug/L	<2	2	<2	2	1462188
Total Silicon (Si)	ug/L	1400	50	2500	50	1462188
Total Silver (Ag)	ug/L	<0.1	0.1	<0.1	0.1	1462188
Total Sodium (Na)	ug/L	690	100	790	100	1462188
Total Thallium (Tl)	ug/L	<0.05	0.05	<0.05	0.05	1462188
Total Tungsten (W)	ug/L	<1	1	<1	1	1462188
Total Uranium (U)	ug/L	<0.1	0.1	<0.1	0.1	1462188
Total Vanadium (V)	ug/L	<1	1	<1	1	1462188
Total Zinc (Zn)	ug/L	8	5	<5	5	1462188
Total Zirconium (Zr)	ug/L	<1	1	<1	1	1462188
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE  
Sampler Initials:

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		X25980			X25981		
Sampling Date		2008/02/17			2008/02/17		
COC Number		67322-01			67322-01		
	Units	DS 3 08	RDL	QC Batch	DS 4 08	RDL	QC Batch

Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	40	1	1460422	92	1	1460422
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	1460422	<1	1	1460422
Hardness (CaCO3)	mg/L	48	1	1460423	85	1	1460423
Langelier Index (@ 20C)	N/A	-1.24	N/A	1460427	-0.156	N/A	1460427
Langelier Index (@ 4C)	N/A	-1.50	N/A	1460428	-0.407	N/A	1460428
Saturation pH (@ 20C)	N/A	8.53	N/A	1460427	7.95	N/A	1460427
Saturation pH (@ 4C)	N/A	8.79	N/A	1460428	8.21	N/A	1460428
INORGANICS							
Total Ammonia-N	mg/L	0.71	0.05	1462514	2.71	0.05	1462503
Conductivity	umho/cm	88	2	1461965	185	2	1462732
Total Organic Carbon (TOC)	mg/L	33	1	1463313	28.5	0.1	1463313
Orthophosphate (P)	mg/L	<0.05	0.05	1463671	<0.01	0.01	1463671
pH	pH	7.3		1461961	7.8		1462731
Total Phosphorus	mg/L	0.019	0.004	1463208	0.25	0.01	1463208
Dissolved Sulphate (SO4)	mg/L	<5	5	1463669	<1	1	1463669
Turbidity	NTU	1.1	0.1	1460918	55.6	0.2	1460918
Alkalinity (Total as CaCO3)	mg/L	40	1	1461966	92	1	1462733
Dissolved Chloride (Cl)	mg/L	<5	5	1463667	1	1	1463667
Nitrite (N)	mg/L	<0.01	0.01	1461674	<0.01	0.01	1461778
Nitrate (N)	mg/L	<0.1	0.1	1461674	<0.1	0.1	1461778
METALS							
Dissolved Calcium (Ca)	mg/L	14.9	0.05	1463370	26.5	0.05	1463370
Dissolved Magnesium (Mg)	mg/L	2.66	0.05	1463370	4.54	0.05	1463370
Dissolved Potassium (K)	mg/L	<1	1	1463370	2	1	1463370
Dissolved Sodium (Na)	mg/L	0.6	0.5	1463370	0.9	0.5	1463370
Total Aluminum (Al)	ug/L	140	5	1462188	540	5	1462188
Total Antimony (Sb)	ug/L	<0.5	0.5	1462188	<0.5	0.5	1462188
Total Arsenic (As)	ug/L	5	1	1462188	15	1	1462188
Total Barium (Ba)	ug/L	11	5	1462188	69	5	1462188
Total Beryllium (Be)	ug/L	<0.5	0.5	1462188	<0.5	0.5	1462188
Total Boron (B)	ug/L	<10	10	1462188	<10	10	1462188
Total Cadmium (Cd)	ug/L	<0.1	0.1	1462188	<0.1	0.1	1462188

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE  
Sampler Initials:

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		X25980			X25981		
Sampling Date		2008/02/17			2008/02/17		
COC Number		67322-01			67322-01		
	Units	DS 3 08	RDL	QC Batch	DS 4 08	RDL	QC Batch
Total Calcium (Ca)	ug/L	16000	200	1462188	31000	200	1462188
Total Chromium (Cr)	ug/L	<5	5	1462188	<5	5	1462188
Total Cobalt (Co)	ug/L	<0.5	0.5	1462188	0.6	0.5	1462188
Total Copper (Cu)	ug/L	<1	1	1462188	2	1	1462188
Total Iron (Fe)	ug/L	550	100	1462188	2800	100	1462188
Total Lead (Pb)	ug/L	<0.5	0.5	1462188	3.4	0.5	1462188
Total Magnesium (Mg)	ug/L	3000	50	1462188	5300	50	1462188
Total Manganese (Mn)	ug/L	54	2	1462188	330	2	1462188
Total Molybdenum (Mo)	ug/L	<1	1	1462188	<1	1	1462188
Total Nickel (Ni)	ug/L	<1	1	1462188	1	1	1462188
Total Potassium (K)	ug/L	640	200	1462188	1700	200	1462188
Total Selenium (Se)	ug/L	<2	2	1462188	<2	2	1462188
Total Silicon (Si)	ug/L	2000	50	1462188	3900	50	1462188
Total Silver (Ag)	ug/L	<0.1	0.1	1462188	<0.1	0.1	1462188
Total Sodium (Na)	ug/L	660	100	1462188	940	100	1462188
Total Thallium (Tl)	ug/L	<0.05	0.05	1462188	<0.05	0.05	1462188
Total Tungsten (W)	ug/L	<1	1	1462188	<1	1	1462188
Total Uranium (U)	ug/L	<0.1	0.1	1462188	0.3	0.1	1462188
Total Vanadium (V)	ug/L	<1	1	1462188	2	1	1462188
Total Zinc (Zn)	ug/L	6	5	1462188	13	5	1462188
Total Zirconium (Zr)	ug/L	<1	1	1462188	<1	1	1462188
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE  
Sampler Initials:

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		X25982		X25983	X25983		
Sampling Date		2008/02/17		2008/02/17	2008/02/17		
COC Number		67322-01		67322-01	67322-01		
	Units	DS 6 08	QC Batch	DS 7 08	DS 7 08 Lab-Dup	RDL	QC Batch

Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	130	1460422	149		1	1460422
Carb. Alkalinity (calc. as CaCO3)	mg/L	2	1460422	2		1	1460422
Hardness (CaCO3)	mg/L	140	1460423	150		1	1460423
Langelier Index (@ 20C)	N/A	0.519	1460427	0.537		N/A	1460427
Langelier Index (@ 4C)	N/A	0.269	1460428	0.286		N/A	1460428
Saturation pH (@ 20C)	N/A	7.62	1460427	7.53		N/A	1460427
Saturation pH (@ 4C)	N/A	7.87	1460428	7.78		N/A	1460428
INORGANICS							
Total Ammonia-N	mg/L	0.06	1462503	1.24		0.05	1462514
Conductivity	umho/cm	266	1461965	285	286	2	1462732
Total Organic Carbon (TOC)	mg/L	14.4	1463313	15.6		0.1	1462235
Orthophosphate (P)	mg/L	<0.01	1463671	<0.01		0.01	1463671
pH	pH	8.1	1461961	8.1	8.1		1462731
Total Phosphorus	mg/L	0.016	1463208	0.012		0.002	1463208
Dissolved Sulphate (SO4)	mg/L	<1	1463669	<1		1	1463669
Turbidity	NTU	0.8	1460918	0.9		0.1	1460918
Alkalinity (Total as CaCO3)	mg/L	131	1461966	151	151	1	1462733
Dissolved Chloride (Cl)	mg/L	2	1463667	2		1	1463667
Nitrite (N)	mg/L	<0.01	1461674	<0.01		0.01	1461674
Nitrate (N)	mg/L	0.1	1461674	<0.1		0.1	1461674
METALS							
Dissolved Calcium (Ca)	mg/L	41.9	1463370	45.7		0.05	1463370
Dissolved Magnesium (Mg)	mg/L	7.48	1463370	7.83		0.05	1463370
Dissolved Potassium (K)	mg/L	2	1463370	2		1	1463370
Dissolved Sodium (Na)	mg/L	1.2	1463370	1.2		0.5	1463370
Total Aluminum (Al)	ug/L	16	1462188	15		5	1462188
Total Antimony (Sb)	ug/L	<0.5	1462188	<0.5		0.5	1462188
Total Arsenic (As)	ug/L	2	1462188	<1		1	1462188
Total Barium (Ba)	ug/L	15	1462188	25		5	1462188
Total Beryllium (Be)	ug/L	<0.5	1462188	<0.5		0.5	1462188
Total Boron (B)	ug/L	<10	1462188	<10		10	1462188
Total Cadmium (Cd)	ug/L	<0.1	1462188	<0.1		0.1	1462188

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE  
Sampler Initials:

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		X25982		X25983	X25983		
Sampling Date		2008/02/17		2008/02/17	2008/02/17		
COC Number		67322-01		67322-01	67322-01		
	Units	DS 6 08	QC Batch	DS 7 08	DS 7 08 Lab-Dup	RDL	QC Batch

Total Calcium (Ca)	ug/L	42000	1462188	45000		200	1462188
Total Chromium (Cr)	ug/L	<5	1462188	<5		5	1462188
Total Cobalt (Co)	ug/L	<0.5	1462188	<0.5		0.5	1462188
Total Copper (Cu)	ug/L	<1	1462188	<1		1	1462188
Total Iron (Fe)	ug/L	<100	1462188	580		100	1462188
Total Lead (Pb)	ug/L	<0.5	1462188	<0.5		0.5	1462188
Total Magnesium (Mg)	ug/L	8000	1462188	8200		50	1462188
Total Manganese (Mn)	ug/L	6	1462188	91		2	1462188
Total Molybdenum (Mo)	ug/L	<1	1462188	<1		1	1462188
Total Nickel (Ni)	ug/L	<1	1462188	<1		1	1462188
Total Potassium (K)	ug/L	1800	1462188	1900		200	1462188
Total Selenium (Se)	ug/L	<2	1462188	<2		2	1462188
Total Silicon (Si)	ug/L	2800	1462188	3700		50	1462188
Total Silver (Ag)	ug/L	<0.1	1462188	<0.1		0.1	1462188
Total Sodium (Na)	ug/L	1200	1462188	1300		100	1462188
Total Thallium (Tl)	ug/L	<0.05	1462188	<0.05		0.05	1462188
Total Tungsten (W)	ug/L	<1	1462188	<1		1	1462188
Total Uranium (U)	ug/L	0.1	1462188	<0.1		0.1	1462188
Total Vanadium (V)	ug/L	<1	1462188	<1		1	1462188
Total Zinc (Zn)	ug/L	11	1462188	<5		5	1462188
Total Zirconium (Zr)	ug/L	<1	1462188	<1		1	1462188

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE  
Sampler Initials:

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		X25984	X25984	X25985	X25985		
Sampling Date		2008/02/17	2008/02/17	2008/02/17	2008/02/17		
COC Number		67322-01	67322-01	67322-01	67322-01		
	<b>Units</b>	<b>BG 1 08</b>	<b>BG 1 08 Lab-Dup</b>	<b>BG 2 08</b>	<b>BG 2 08 Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Calculated Parameters</b>							
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	55		65		1	1460422
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1		<1		1	1460422
Hardness (CaCO3)	mg/L	57		67		1	1460423
Langelier Index (@ 20C)	N/A	-0.503		-0.243		N/A	1460427
Langelier Index (@ 4C)	N/A	-0.755		-0.495		N/A	1460428
Saturation pH (@ 20C)	N/A	8.34		8.19		N/A	1460427
Saturation pH (@ 4C)	N/A	8.59		8.44		N/A	1460428
<b>INORGANICS</b>							
Total Ammonia-N	mg/L	0.12		<0.05		0.05	1462503
Conductivity	umho/cm	118		136		2	1461965
Total Organic Carbon (TOC)	mg/L	17.5		6.4		0.1	1462235
Orthophosphate (P)	mg/L	<0.01		<0.01		0.01	1463671
pH	pH	7.8		7.9			1461961
Total Phosphorus	mg/L	0.018		0.010		0.002	1463208
Dissolved Sulphate (SO4)	mg/L	<1		<1		1	1463669
Turbidity	NTU	1.4		0.7	0.6	0.1	1460918
Alkalinity (Total as CaCO3)	mg/L	55		66		1	1461966
Dissolved Chloride (Cl)	mg/L	2		<1		1	1463667
Nitrite (N)	mg/L	<0.01		<0.01		0.01	1461674
Nitrate (N)	mg/L	<0.1		0.1		0.1	1461674
<b>METALS</b>							
Dissolved Calcium (Ca)	mg/L	17.2	17.1	20.4		0.05	1463370
Dissolved Magnesium (Mg)	mg/L	3.46	3.44	3.84		0.05	1463370
Dissolved Potassium (K)	mg/L	<1	<1	<1		1	1463370
Dissolved Sodium (Na)	mg/L	1.6	1.6	0.8		0.5	1463370
Total Aluminum (Al)	ug/L	28		5		5	1462188
Total Antimony (Sb)	ug/L	<0.5		<0.5		0.5	1462188
Total Arsenic (As)	ug/L	<1		<1		1	1462188
Total Barium (Ba)	ug/L	11		12		5	1462188
Total Beryllium (Be)	ug/L	<0.5		<0.5		0.5	1462188
Total Boron (B)	ug/L	<10		<10		10	1462188
Total Cadmium (Cd)	ug/L	<0.1		<0.1		0.1	1462188

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE  
Sampler Initials:

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		X25984	X25984	X25985	X25985		
Sampling Date		2008/02/17	2008/02/17	2008/02/17	2008/02/17		
COC Number		67322-01	67322-01	67322-01	67322-01		
	Units	BG 1 08	BG 1 08 Lab-Dup	BG 2 08	BG 2 08 Lab-Dup	RDL	QC Batch
Total Calcium (Ca)	ug/L	17000		21000		200	1462188
Total Chromium (Cr)	ug/L	<5		<5		5	1462188
Total Cobalt (Co)	ug/L	<0.5		<0.5		0.5	1462188
Total Copper (Cu)	ug/L	3		<1		1	1462188
Total Iron (Fe)	ug/L	100		<100		100	1462188
Total Lead (Pb)	ug/L	<0.5		<0.5		0.5	1462188
Total Magnesium (Mg)	ug/L	3700		4100		50	1462188
Total Manganese (Mn)	ug/L	15		<2		2	1462188
Total Molybdenum (Mo)	ug/L	<1		<1		1	1462188
Total Nickel (Ni)	ug/L	<1		<1		1	1462188
Total Potassium (K)	ug/L	1300		440		200	1462188
Total Selenium (Se)	ug/L	<2		<2		2	1462188
Total Silicon (Si)	ug/L	560		1300		50	1462188
Total Silver (Ag)	ug/L	<0.1		<0.1		0.1	1462188
Total Sodium (Na)	ug/L	1500		770		100	1462188
Total Thallium (Tl)	ug/L	<0.05		<0.05		0.05	1462188
Total Tungsten (W)	ug/L	<1		<1		1	1462188
Total Uranium (U)	ug/L	<0.1		<0.1		0.1	1462188
Total Vanadium (V)	ug/L	<1		<1		1	1462188
Total Zinc (Zn)	ug/L	14		<5		5	1462188
Total Zirconium (Zr)	ug/L	<1		<1		1	1462188
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE  
Sampler Initials:

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		X25986		
Sampling Date		2008/02/17		
COC Number		67322-01		
	<b>Units</b>	<b>BG 3 08</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Calculated Parameters</b>				
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	56	1	1460422
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	1460422
Hardness (CaCO3)	mg/L	59	1	1460790
Langelier Index (@ 20C)	N/A	-0.437	N/A	1460427
Langelier Index (@ 4C)	N/A	-0.688	N/A	1460428
Saturation pH (@ 20C)	N/A	8.31	N/A	1460427
Saturation pH (@ 4C)	N/A	8.56	N/A	1460428
<b>INORGANICS</b>				
Total Ammonia-N	mg/L	0.15	0.05	1462503
Conductivity	umho/cm	116	2	1462732
Total Organic Carbon (TOC)	mg/L	18.3	0.1	1462235
Orthophosphate (P)	mg/L	<0.01	0.01	1463671
pH	pH	7.9		1462731
Total Phosphorus	mg/L	0.024	0.002	1463208
Dissolved Sulphate (SO4)	mg/L	<1	1	1463669
Turbidity	NTU	1.3	0.1	1460918
Alkalinity (Total as CaCO3)	mg/L	57	1	1462733
Dissolved Chloride (Cl)	mg/L	2	1	1463667
Nitrite (N)	mg/L	<0.01	0.01	1461674
Nitrate (N)	mg/L	<0.1	0.1	1461674
<b>METALS</b>				
Dissolved Calcium (Ca)	mg/L	17.8	0.05	1463370
Dissolved Magnesium (Mg)	mg/L	3.60	0.05	1463370
Dissolved Potassium (K)	mg/L	<1	1	1463370
Dissolved Sodium (Na)	mg/L	1.3	0.5	1463370
Total Aluminum (Al)	ug/L	27	5	1462188
Total Antimony (Sb)	ug/L	<0.5	0.5	1462188
Total Arsenic (As)	ug/L	<1	1	1462188
Total Barium (Ba)	ug/L	12	5	1462188
Total Beryllium (Be)	ug/L	<0.5	0.5	1462188
Total Boron (B)	ug/L	<10	10	1462188
Total Cadmium (Cd)	ug/L	0.1	0.1	1462188
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE  
Sampler Initials:

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		X25986		
Sampling Date		2008/02/17		
COC Number		67322-01		
	<b>Units</b>	<b>BG 3 08</b>	<b>RDL</b>	<b>QC Batch</b>

Total Calcium (Ca)	ug/L	18000	200	1462188
Total Chromium (Cr)	ug/L	<5	5	1462188
Total Cobalt (Co)	ug/L	<0.5	0.5	1462188
Total Copper (Cu)	ug/L	2	1	1462188
Total Iron (Fe)	ug/L	<100	100	1462188
Total Lead (Pb)	ug/L	<0.5	0.5	1462188
Total Magnesium (Mg)	ug/L	3900	50	1462188
Total Manganese (Mn)	ug/L	14	2	1462188
Total Molybdenum (Mo)	ug/L	<1	1	1462188
Total Nickel (Ni)	ug/L	<1	1	1462188
Total Potassium (K)	ug/L	1200	200	1462188
Total Selenium (Se)	ug/L	<2	2	1462188
Total Silicon (Si)	ug/L	590	50	1462188
Total Silver (Ag)	ug/L	<0.1	0.1	1462188
Total Sodium (Na)	ug/L	1300	100	1462188
Total Thallium (Tl)	ug/L	<0.05	0.05	1462188
Total Tungsten (W)	ug/L	<1	1	1462188
Total Uranium (U)	ug/L	<0.1	0.1	1462188
Total Vanadium (V)	ug/L	<1	1	1462188
Total Zinc (Zn)	ug/L	12	5	1462188
Total Zirconium (Zr)	ug/L	<1	1	1462188

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch



Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE  
Sampler Initials:

**RESULTS OF ANALYSES OF WATER**

Maxxam ID		X25978	X25979			X25980		
Sampling Date		2008/02/17	2008/02/17			2008/02/17		
COC Number		67322-01	67322-01			67322-01		
	<b>Units</b>	<b>DS 1 08</b>	<b>DS 2 08</b>	<b>RDL</b>	<b>QC Batch</b>	<b>DS 3 08</b>	<b>RDL</b>	<b>QC Batch</b>

<b>INORGANICS</b>								
Colour	TCU	120	110	4	1462287	220	6	1462287
Total Suspended Solids	mg/L	<1	<1	1	1461227	1	1	1461232

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam ID		X25981				X25982		
Sampling Date		2008/02/17				2008/02/17		
COC Number		67322-01				67322-01		
	<b>Units</b>	<b>DS 4 08</b>	<b>RDL</b>	<b>QC Batch</b>	<b>DS 6 08</b>	<b>RDL</b>	<b>QC Batch</b>	

<b>INORGANICS</b>								
Colour	TCU	62	2	1463819	56	2	1462287	
Total Suspended Solids	mg/L	500	10	1461232	<1	1	1461226	

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam ID		X25983	X25983			X25984	X25985		
Sampling Date		2008/02/17	2008/02/17			2008/02/17	2008/02/17		
COC Number		67322-01	67322-01			67322-01	67322-01		
	<b>Units</b>	<b>DS 7 08</b>	<b>DS 7 08 Lab-Dup</b>	<b>QC Batch</b>	<b>BG 1 08</b>	<b>BG 2 08</b>	<b>RDL</b>	<b>QC Batch</b>	

<b>INORGANICS</b>									
Colour	TCU	76		1463819	59	13	2	1462287	
Total Suspended Solids	mg/L	2	2	1461232	1	<1	1	1461226	

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNNE HOUSE  
Sampler Initials:

**RESULTS OF ANALYSES OF WATER**

Maxxam ID		X25985		X25986	X25986		
Sampling Date		2008/02/17		2008/02/17	2008/02/17		
COC Number		67322-01		67322-01	67322-01		
	<b>Units</b>	<b>BG 2</b>	<b>QC Batch</b>	<b>BG 3 08</b>	<b>BG 3</b>	<b>RDL</b>	<b>QC Batch</b>
		<b>08 Lab-Dup</b>			<b>08 Lab-Dup</b>		

<b>INORGANICS</b>							
Colour	TCU		1462287	61		2	1462287
Total Suspended Solids	mg/L	<1	1461226	2	2	1	1461227
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE  
Sampler Initials:

**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

Maxxam ID		X25978	X25979	X25980	X25981	X25982		
Sampling Date		2008/02/17	2008/02/17	2008/02/17	2008/02/17	2008/02/17		
COC Number		67322-01	67322-01	67322-01	67322-01	67322-01		
	<b>Units</b>	<b>DS 1 08</b>	<b>DS 2 08</b>	<b>DS 3 08</b>	<b>DS 4 08</b>	<b>DS 6 08</b>	<b>RDL</b>	<b>QC Batch</b>

<b>METALS</b>								
Mercury (Hg)	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1462549

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam ID		X25982	X25983	X25984	X25985	X25986		
Sampling Date		2008/02/17	2008/02/17	2008/02/17	2008/02/17	2008/02/17		
COC Number		67322-01	67322-01	67322-01	67322-01	67322-01		
	<b>Units</b>	<b>DS 6</b>	<b>DS 7 08</b>	<b>BG 1 08</b>	<b>BG 2 08</b>	<b>BG 3 08</b>	<b>RDL</b>	<b>QC Batch</b>
		<b>08 Lab-Dup</b>						

<b>METALS</b>								
Mercury (Hg)	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1462549

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE  
Sampler Initials:

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		X25981	X25984	X25985	X25986		
Sampling Date		2008/02/17	2008/02/17	2008/02/17	2008/02/17		
COC Number		67322-01	67322-01	67322-01	67322-01		
	Units	DS 4 08	BG 1 08	BG 2 08	BG 3 08	RDL	QC Batch

VOLATILES							
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	10	1461000
Benzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1461000
Bromodichloromethane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1461000
Bromoform	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
Bromomethane	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	1461000
Carbon Tetrachloride	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1461000
Chlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1461000
Chloroform	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1461000
Dibromochloromethane	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
1,2-Dichlorobenzene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
1,3-Dichlorobenzene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
1,4-Dichlorobenzene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
1,1-Dichloroethane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1461000
1,2-Dichloroethane	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
1,1-Dichloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1461000
cis-1,2-Dichloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1461000
trans-1,2-Dichloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1461000
1,2-Dichloropropane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1461000
cis-1,3-Dichloropropene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
trans-1,3-Dichloropropene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
Ethylbenzene	ug/L	<0.1	<0.1	0.1	<0.1	0.1	1461000
Ethylene Dibromide	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
Methylene Chloride(Dichloromethane)	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	1461000
Methyl isobutyl Ketone	ug/L	<5	<5	<5	<5	5	1461000
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5	<5	<5	<5	5	1461000
Methyl t-butyl ether (MTBE)	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
Styrene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
1,1,1,2-Tetrachloroethane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1461000
1,1,1,2,2-Tetrachloroethane	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
Tetrachloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1461000
Toluene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
1,1,1-Trichloroethane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1461000

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE  
Sampler Initials:

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		X25981	X25984	X25985	X25986		
Sampling Date		2008/02/17	2008/02/17	2008/02/17	2008/02/17		
COC Number		67322-01	67322-01	67322-01	67322-01		
	Units	DS 4 08	BG 1 08	BG 2 08	BG 3 08	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
Trichloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1461000
Vinyl Chloride	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1461000
p+m-Xylene	ug/L	<0.1	0.2	0.6	0.2	0.1	1461000
o-Xylene	ug/L	<0.1	0.1	0.3	0.1	0.1	1461000
Xylene (Total)	ug/L	<0.1	0.4	0.9	0.3	0.1	1461000
<b>Surrogate Recovery (%)</b>							
4-Bromofluorobenzene	%	81	84	85	83		1461000
D4-1,2-Dichloroethane	%	127	125	127	127		1461000
D8-Toluene	%	93	95	96	97		1461000
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A816432  
Report Date: 2008/02/27

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE  
Sampler Initials:

Package 1	0.7°C
Package 2	1.3°C

Each temperature is the average of up to three cooler temperatures taken at receipt

**GENERAL COMMENTS**

The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Sample X25980-01: Chloride, Sulfate and O-phosphate: Due to colour interferences, sample required dilution. Detection limits were adjusted accordingly.

**Results relate only to the items tested.**

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report  
Maxxam Job Number: MA816432

QA/QC Batch	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
Num Init			yyyy/mm/dd				
1480918 PAL	QC STANDARD	Turbidity	2008/02/20		101	%	85 - 115
	Method Blank	Turbidity	2008/02/20	<0.1		NTU	
	RPD [X25985-01]	Turbidity	2008/02/20	9.2			25
1461000 JT	MATRIX SPIKE	4-Bromofluorobenzene	2008/02/21		100	%	70 - 130
		D4-1,2-Dichloroethane	2008/02/21		122	%	70 - 130
		D8-Toluene	2008/02/21		95	%	70 - 130
		Acetone (2-Propanone)	2008/02/21		88	%	60 - 140
		Benzene	2008/02/21		94	%	70 - 130
		Bromodichloromethane	2008/02/21		117	%	70 - 130
		Bromoform	2008/02/21		101	%	70 - 130
		Bromomethane	2008/02/21		103	%	60 - 140
		Carbon Tetrachloride	2008/02/21		124	%	70 - 130
		Chlorobenzene	2008/02/21		98	%	70 - 130
		Chloroform	2008/02/21		109	%	70 - 130
		Dibromochloromethane	2008/02/21		108	%	70 - 130
		1,2-Dichlorobenzene	2008/02/21		104	%	70 - 130
		1,3-Dichlorobenzene	2008/02/21		112	%	70 - 130
		1,4-Dichlorobenzene	2008/02/21		117	%	70 - 130
		1,1-Dichloroethane	2008/02/21		105	%	70 - 130
		1,2-Dichloroethane	2008/02/21		111	%	70 - 130
		1,1-Dichloroethylene	2008/02/21		104	%	70 - 130
		cis-1,2-Dichloroethylene	2008/02/21		99	%	70 - 130
		trans-1,2-Dichloroethylene	2008/02/21		100	%	70 - 130
		1,2-Dichloropropane	2008/02/21		101	%	70 - 130
		cis-1,3-Dichloropropene	2008/02/21		115	%	70 - 130
		trans-1,3-Dichloropropene	2008/02/21		106	%	70 - 130
		Ethylbenzene	2008/02/21		103	%	70 - 130
		Ethylene Dibromide	2008/02/21		99	%	70 - 130
		Methylene Chloride(Dichloromethane)	2008/02/21		95	%	70 - 130
		Methyl Isobutyl Ketone	2008/02/21		98	%	60 - 140
		Methyl Ethyl Ketone (2-Butanone)	2008/02/21		87	%	60 - 140
		Methyl t-butyl ether (MTBE)	2008/02/21		98	%	70 - 130
		Styrene	2008/02/21		102	%	70 - 130
		1,1,1,2-Tetrachloroethane	2008/02/21		107	%	70 - 130
		1,1,2,2-Tetrachloroethane	2008/02/21		98	%	70 - 130
		Tetrachloroethylene	2008/02/21		95	%	70 - 130
		Toluene	2008/02/21		97	%	70 - 130
		1,1,1-Trichloroethane	2008/02/21		119	%	70 - 130
		1,1,2-Trichloroethane	2008/02/21		94	%	70 - 130
		Trichloroethylene	2008/02/21		105	%	70 - 130
		Vinyl Chloride	2008/02/21		80	%	70 - 130
		p+m-Xylene	2008/02/21		107	%	70 - 130
		o-Xylene	2008/02/21		108	%	70 - 130
	Spiked Blank	4-Bromofluorobenzene	2008/02/21		98	%	70 - 130
		D4-1,2-Dichloroethane	2008/02/21		125	%	70 - 130
		D8-Toluene	2008/02/21		94	%	70 - 130
		Acetone (2-Propanone)	2008/02/21		140	%	60 - 140
		Benzene	2008/02/21		94	%	70 - 130
		Bromodichloromethane	2008/02/21		123	%	70 - 130
		Bromoform	2008/02/21		111	%	70 - 130
		Bromomethane	2008/02/21		103	%	60 - 140
		Carbon Tetrachloride	2008/02/21		124	%	70 - 130
		Chlorobenzene	2008/02/21		99	%	70 - 130
		Chloroform	2008/02/21		111	%	70 - 130
		Dibromochloromethane	2008/02/21		114	%	70 - 130

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSDOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA816432

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1461000 JT	Spiked Blank	1,2-Dichlorobenzene	2008/02/21		104	%	70 - 130
		1,3-Dichlorobenzene	2008/02/21		111	%	70 - 130
		1,4-Dichlorobenzene	2008/02/21		114	%	70 - 130
		1,1-Dichloroethane	2008/02/21		105	%	70 - 130
		1,2-Dichloroethane	2008/02/21		116	%	70 - 130
		1,1-Dichloroethylene	2008/02/21		108	%	70 - 130
		cis-1,2-Dichloroethylene	2008/02/21		99	%	70 - 130
		trans-1,2-Dichloroethylene	2008/02/21		98	%	70 - 130
		1,2-Dichloropropane	2008/02/21		100	%	70 - 130
		cis-1,3-Dichloropropene	2008/02/21		118	%	70 - 130
		trans-1,3-Dichloropropene	2008/02/21		109	%	70 - 130
		Ethylbenzene	2008/02/21		100	%	70 - 130
		Ethylene Dibromide	2008/02/21		101	%	70 - 130
		Methylene Chloride(Dichloromethane)	2008/02/21		97	%	70 - 130
		Methyl Isobutyl Ketone	2008/02/21		105	%	60 - 140
		Methyl Ethyl Ketone (2-Butanone)	2008/02/21		115	%	60 - 140
		Methyl t-butyl ether (MTBE)	2008/02/21		104	%	70 - 130
		Styrene	2008/02/21		102	%	70 - 130
		1,1,1,2-Tetrachloroethane	2008/02/21		110	%	70 - 130
		1,1,2,2-Tetrachloroethane	2008/02/21		107	%	70 - 130
		Tetrachloroethylene	2008/02/21		92	%	70 - 130
		Toluene	2008/02/21		95	%	70 - 130
		1,1,1-Trichloroethane	2008/02/21		118	%	70 - 130
		1,1,2-Trichloroethane	2008/02/21		100	%	70 - 130
		Trichloroethylene	2008/02/21		102	%	70 - 130
		Vinyl Chloride	2008/02/21		80	%	70 - 130
		p+m-Xylene	2008/02/21		104	%	70 - 130
		o-Xylene	2008/02/21		107	%	70 - 130
	Method Blank	4-Bromofluorobenzene	2008/02/21		82	%	70 - 130
		D4-1,2-Dichloroethane	2008/02/21		121	%	70 - 130
		D8-Toluene	2008/02/21		99	%	70 - 130
		Acetone (2-Propanone)	2008/02/21	<10		ug/L	
		Benzene	2008/02/21	<0.1		ug/L	
		Bromodichloromethane	2008/02/21	<0.1		ug/L	
		Bromoform	2008/02/21	<0.2		ug/L	
		Bromomethane	2008/02/21	<0.5		ug/L	
		Carbon Tetrachloride	2008/02/21	<0.1		ug/L	
		Chlorobenzene	2008/02/21	<0.1		ug/L	
		Chloroform	2008/02/21	<0.1		ug/L	
		Dibromochloromethane	2008/02/21	<0.2		ug/L	
		1,2-Dichlorobenzene	2008/02/21	<0.2		ug/L	
		1,3-Dichlorobenzene	2008/02/21	<0.2		ug/L	
		1,4-Dichlorobenzene	2008/02/21	<0.2		ug/L	
		1,1-Dichloroethane	2008/02/21	<0.1		ug/L	
		1,2-Dichloroethane	2008/02/21	<0.2		ug/L	
		1,1-Dichloroethylene	2008/02/21	<0.1		ug/L	
		cis-1,2-Dichloroethylene	2008/02/21	<0.1		ug/L	
		trans-1,2-Dichloroethylene	2008/02/21	<0.1		ug/L	
		1,2-Dichloropropane	2008/02/21	<0.1		ug/L	
		cis-1,3-Dichloropropene	2008/02/21	<0.2		ug/L	
		trans-1,3-Dichloropropene	2008/02/21	<0.2		ug/L	
		Ethylbenzene	2008/02/21	<0.1		ug/L	
		Ethylene Dibromide	2008/02/21	<0.2		ug/L	
		Methylene Chloride(Dichloromethane)	2008/02/21	<0.5		ug/L	
		Methyl Isobutyl Ketone	2008/02/21	<5		ug/L	



Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSDOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA816432

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1461000 JT	Method Blank	Methyl Ethyl Ketone (2-Butanone)	2008/02/21	<5		ug/L	
		Methyl t-butyl ether (MTBE)	2008/02/21	<0.2		ug/L	
		Styrene	2008/02/21	<0.2		ug/L	
		1,1,1,2-Tetrachloroethane	2008/02/21	<0.1		ug/L	
		1,1,2,2-Tetrachloroethane	2008/02/21	<0.2		ug/L	
		Tetrachloroethylene	2008/02/21	<0.1		ug/L	
		Toluene	2008/02/21	<0.2		ug/L	
		1,1,1-Trichloroethane	2008/02/21	<0.1		ug/L	
		1,1,2-Trichloroethane	2008/02/21	<0.2		ug/L	
		Trichloroethylene	2008/02/21	<0.1		ug/L	
		Vinyl Chloride	2008/02/21	<0.2		ug/L	
		p+m-Xylene	2008/02/21	<0.1		ug/L	
		o-Xylene	2008/02/21	<0.1		ug/L	
		Xylene (Total)	2008/02/21	<0.1		ug/L	
		RPD	Acetone (2-Propanone)	2008/02/21	NC		%
	Benzene		2008/02/21	NC		%	40
	Bromodichloromethane		2008/02/21	NC		%	40
	Bromoform		2008/02/21	NC		%	40
	Bromomethane		2008/02/21	NC		%	40
	Carbon Tetrachloride		2008/02/21	NC		%	40
	Chlorobenzene		2008/02/21	NC		%	40
	Chloroform		2008/02/21	NC		%	40
	Dibromochloromethane		2008/02/21	NC		%	40
	1,2-Dichlorobenzene		2008/02/21	NC		%	40
	1,3-Dichlorobenzene		2008/02/21	NC		%	40
	1,4-Dichlorobenzene		2008/02/21	NC		%	40
	1,1-Dichloroethane		2008/02/21	NC		%	40
	1,2-Dichloroethane		2008/02/21	NC		%	40
	1,1-Dichloroethylene		2008/02/21	NC		%	40
	cis-1,2-Dichloroethylene		2008/02/21	1.2		%	40
	trans-1,2-Dichloroethylene		2008/02/21	NC		%	40
	1,2-Dichloropropane		2008/02/21	NC		%	40
	cis-1,3-Dichloropropene		2008/02/21	NC		%	40
	trans-1,3-Dichloropropene		2008/02/21	NC		%	40
	Ethylbenzene	2008/02/21	NC		%	40	
Ethylene Dibromide	2008/02/21	NC		%	40		
Methylene Chloride(Dichloromethane)	2008/02/21	NC		%	40		
Methyl Isobutyl Ketone	2008/02/21	NC		%	40		
Methyl Ethyl Ketone (2-Butanone)	2008/02/21	NC		%	40		
Methyl t-butyl ether (MTBE)	2008/02/21	NC		%	40		
Styrene	2008/02/21	NC		%	40		
1,1,1,2-Tetrachloroethane	2008/02/21	NC		%	40		
1,1,2,2-Tetrachloroethane	2008/02/21	NC		%	40		
Tetrachloroethylene	2008/02/21	NC		%	40		
Toluene	2008/02/21	NC		%	40		
1,1,1-Trichloroethane	2008/02/21	NC		%	40		
1,1,2-Trichloroethane	2008/02/21	NC		%	40		
Trichloroethylene	2008/02/21	1.2		%	40		
Vinyl Chloride	2008/02/21	NC		%	40		
p+m-Xylene	2008/02/21	NC		%	40		
o-Xylene	2008/02/21	NC		%	40		
Xylene (Total)	2008/02/21	NC		%	40		
1461194 ZZ	MATRIX SPIKE [X25984-06]	o-Terphenyl	2008/02/20		89	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2008/02/20		89	%	60 - 130

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSDOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA816432

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1461194 ZZ	MATRIX SPIKE [X25984-06]	F3 (C16-C34 Hydrocarbons)	2008/02/20		89	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2008/02/20		89	%	60 - 130	
	Spiked Blank	o-Terphenyl	2008/02/20		92	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2008/02/20		86	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2008/02/20		86	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2008/02/20		86	%	60 - 130	
	Method Blank	o-Terphenyl	2008/02/20		85	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2008/02/20	<100		ug/L		
		F3 (C16-C34 Hydrocarbons)	2008/02/20	<100		ug/L		
		F4 (C34-C50 Hydrocarbons)	2008/02/20	<100		ug/L		
	RPD [X25985-06]	F2 (C10-C16 Hydrocarbons)	2008/02/20	NC		%	50	
		F3 (C16-C34 Hydrocarbons)	2008/02/20	NC		%	50	
		F4 (C34-C50 Hydrocarbons)	2008/02/20	NC		%	50	
		Total Suspended Solids	2008/02/21		102	%	85 - 115	
1461226 HAG	QC STANDARD	Total Suspended Solids	2008/02/21	<1		mg/L		
	Method Blank	Total Suspended Solids	2008/02/21	NC		%	25	
1461227 HAG	QC STANDARD	Total Suspended Solids	2008/02/21		102	%	85 - 115	
	Method Blank	Total Suspended Solids	2008/02/21	<1		mg/L		
1461232 HAG	QC STANDARD	Total Suspended Solids	2008/02/21	NC		%	25	
	Method Blank	Total Suspended Solids	2008/02/22		102	%	85 - 115	
1461232 HAG	Method Blank	Total Suspended Solids	2008/02/22	<1		mg/L		
	RPD [X25983-02]	Total Suspended Solids	2008/02/22	NC		%	25	
1461674 ADB	MATRIX SPIKE	Nitrite (N)	2008/02/22		103	%	75 - 125	
		Nitrate (N)	2008/02/22		83	%	75 - 125	
	Spiked Blank	Nitrite (N)	2008/02/22		104	%	80 - 120	
		Nitrate (N)	2008/02/22		98	%	80 - 120	
	Method Blank	Nitrite (N)	2008/02/22	<0.01		mg/L		
		Nitrate (N)	2008/02/22	<0.1		mg/L		
	RPD	Nitrite (N)	2008/02/22	NC		%	25	
		Nitrate (N)	2008/02/22	1.8		%	25	
	1461778 LS	MATRIX SPIKE	Nitrite (N)	2008/02/22		99	%	75 - 125
			Nitrate (N)	2008/02/22		83	%	75 - 125
Spiked Blank		Nitrite (N)	2008/02/22		105	%	80 - 120	
		Nitrate (N)	2008/02/22		103	%	80 - 120	
Method Blank		Nitrite (N)	2008/02/22	<0.01		mg/L		
		Nitrate (N)	2008/02/22	<0.1		mg/L		
RPD		Nitrite (N)	2008/02/22	0.8		%	25	
		Nitrate (N)	2008/02/22	0.6		%	25	
1461965 YPA		QC STANDARD	Conductivity	2008/02/21		101	%	85 - 115
		Method Blank	Conductivity	2008/02/21	<2		umho/cm	
	RPD	Conductivity	2008/02/21	0.4		%	25	
1461966 YPA	QC STANDARD	Alkalinity (Total as CaCO3)	2008/02/21		104	%	85 - 115	
	Method Blank	Alkalinity (Total as CaCO3)	2008/02/21	<1		mg/L		
	RPD	Alkalinity (Total as CaCO3)	2008/02/21	0.3		%	25	
1462048 SHK	MATRIX SPIKE	1,4-Difluorobenzene	2008/02/22		98	%	70 - 130	
		4-Bromofluorobenzene	2008/02/22		97	%	70 - 130	
		D10-Ethylbenzene	2008/02/22		81	%	70 - 130	
		D4-1,2-Dichloroethane	2008/02/22		101	%	70 - 130	
		F1 (C6-C10)	2008/02/22		104	%	70 - 130	
		Spiked Blank	1,4-Difluorobenzene	2008/02/22		97	%	70 - 130
			4-Bromofluorobenzene	2008/02/22		98	%	70 - 130
			D10-Ethylbenzene	2008/02/22		83	%	70 - 130
			D4-1,2-Dichloroethane	2008/02/22		103	%	70 - 130
			F1 (C6-C10)	2008/02/22		118	%	70 - 130

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA816432

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
1462048 SHK	Method Blank	1,4-Difluorobenzene	2008/02/22		98	%	70 - 130		
		4-Bromofluorobenzene	2008/02/22		95	%	70 - 130		
		D10-Ethylbenzene	2008/02/22		82	%	70 - 130		
		D4-1,2-Dichloroethane	2008/02/22		103	%	70 - 130		
		F1 (C6-C10)	2008/02/22	<100		ug/L			
		F1 (C6-C10) - BTEX	2008/02/22	<100		ug/L			
RPD		F1 (C6-C10)	2008/02/22	NC		%	40		
		F1 (C6-C10) - BTEX	2008/02/22	NC		%	40		
1462188 MIL	MATRIX SPIKE	Total Aluminum (Al)	2008/02/22		106	%	80 - 120		
		Total Antimony (Sb)	2008/02/22		100	%	80 - 120		
		Total Arsenic (As)	2008/02/22		99	%	80 - 120		
		Total Barium (Ba)	2008/02/22		97	%	80 - 120		
		Total Beryllium (Be)	2008/02/22		97	%	75 - 125		
		Total Boron (B)	2008/02/22		97	%	75 - 125		
		Total Cadmium (Cd)	2008/02/22		97	%	80 - 120		
		Total Calcium (Ca)	2008/02/22		99	%	75 - 125		
		Total Chromium (Cr)	2008/02/22		97	%	80 - 120		
		Total Cobalt (Co)	2008/02/22		96	%	80 - 120		
		Total Copper (Cu)	2008/02/22		94	%	80 - 120		
		Total Iron (Fe)	2008/02/22		100	%	80 - 120		
		Total Lead (Pb)	2008/02/22		94	%	80 - 120		
		Total Magnesium (Mg)	2008/02/22		104	%	80 - 120		
		Total Manganese (Mn)	2008/02/22		98	%	80 - 120		
		Total Molybdenum (Mo)	2008/02/22		98	%	80 - 120		
		Total Nickel (Ni)	2008/02/22		96	%	80 - 120		
		Total Potassium (K)	2008/02/22		98	%	75 - 125		
		Total Selenium (Se)	2008/02/22		99	%	75 - 125		
		Total Silicon (Si)	2008/02/22		96	%	75 - 125		
		Total Silver (Ag)	2008/02/22		101	%	80 - 120		
		Total Sodium (Na)	2008/02/22		106	%	75 - 125		
		Total Thallium (Tl)	2008/02/22		93	%	80 - 120		
		Total Tungsten (W)	2008/02/22		100	%	75 - 125		
		Total Uranium (U)	2008/02/22		97	%	80 - 120		
		Total Vanadium (V)	2008/02/22		98	%	80 - 120		
		Total Zinc (Zn)	2008/02/22		96	%	80 - 120		
		Spiked Blank		Total Zirconium (Zr)	2008/02/22		102	%	75 - 125
				Total Aluminum (Al)	2008/02/22		97	%	80 - 120
				Total Antimony (Sb)	2008/02/22		104	%	82 - 120
				Total Arsenic (As)	2008/02/22		97	%	86 - 119
				Total Barium (Ba)	2008/02/22		97	%	83 - 115
				Total Beryllium (Be)	2008/02/22		96	%	85 - 132
				Total Boron (B)	2008/02/22		102	%	78 - 133
Total Cadmium (Cd)	2008/02/22				98	%	85 - 116		
Total Calcium (Ca)	2008/02/22				103	%	75 - 125		
Total Chromium (Cr)	2008/02/22				96	%	80 - 120		
Total Cobalt (Co)	2008/02/22				95	%	82 - 117		
Total Copper (Cu)	2008/02/22				95	%	80 - 117		
Total Iron (Fe)	2008/02/22				97	%	80 - 120		
Total Lead (Pb)	2008/02/22				94	%	80 - 120		
Total Magnesium (Mg)	2008/02/22				100	%	80 - 120		
Total Manganese (Mn)	2008/02/22				97	%	80 - 120		
Total Molybdenum (Mo)	2008/02/22				103	%	82 - 117		
Total Nickel (Ni)	2008/02/22				94	%	81 - 117		
Total Potassium (K)	2008/02/22		99	%	75 - 125				
Total Selenium (Se)	2008/02/22		97	%	82 - 118				

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA816432

QA/QC Batch	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
1462188 MIL	Spiked Blank	Total Silicon (Si)	2008/02/22		99	%	67 - 140
		Total Silver (Ag)	2008/02/22		101	%	80 - 120
		Total Sodium (Na)	2008/02/22		103	%	75 - 125
		Total Thallium (Tl)	2008/02/22		93	%	80 - 129
		Total Tungsten (W)	2008/02/22		103	%	81 - 123
		Total Uranium (U)	2008/02/22		97	%	82 - 120
		Total Vanadium (V)	2008/02/22		96	%	82 - 118
		Total Zinc (Zn)	2008/02/22		96	%	80 - 120
		Total Zirconium (Zr)	2008/02/22		104	%	84 - 118
	Method Blank	Total Aluminum (Al)	2008/02/22	<5		ug/L	
		Total Antimony (Sb)	2008/02/22	<0.5		ug/L	
		Total Arsenic (As)	2008/02/22	<1		ug/L	
		Total Barium (Ba)	2008/02/22	<5		ug/L	
		Total Beryllium (Be)	2008/02/22	<0.5		ug/L	
		Total Boron (B)	2008/02/22	<10		ug/L	
		Total Cadmium (Cd)	2008/02/22	<0.1		ug/L	
		Total Calcium (Ca)	2008/02/22	<200		ug/L	
		Total Chromium (Cr)	2008/02/22	<5		ug/L	
		Total Cobalt (Co)	2008/02/22	<0.5		ug/L	
		Total Copper (Cu)	2008/02/22	<1		ug/L	
		Total Iron (Fe)	2008/02/22	<100		ug/L	
		Total Lead (Pb)	2008/02/22	<0.5		ug/L	
		Total Magnesium (Mg)	2008/02/22	<50		ug/L	
		Total Manganese (Mn)	2008/02/22	<2		ug/L	
		Total Molybdenum (Mo)	2008/02/22	<1		ug/L	
		Total Nickel (Ni)	2008/02/22	<1		ug/L	
		Total Potassium (K)	2008/02/22	<200		ug/L	
		Total Selenium (Se)	2008/02/22	<2		ug/L	
		Total Silicon (Si)	2008/02/22	<50		ug/L	
		Total Silver (Ag)	2008/02/22	<0.1		ug/L	
		Total Sodium (Na)	2008/02/22	<100		ug/L	
		Total Thallium (Tl)	2008/02/22	<0.05		ug/L	
		Total Tungsten (W)	2008/02/22	<1		ug/L	
		Total Uranium (U)	2008/02/22	<0.1		ug/L	
		Total Vanadium (V)	2008/02/22	<1		ug/L	
		Total Zinc (Zn)	2008/02/22	<5		ug/L	
		Total Zirconium (Zr)	2008/02/22	<1		ug/L	
	RPD	Total Aluminum (Al)	2008/02/22	2.4		%	25
		Total Copper (Cu)	2008/02/22	0.9		%	25
		Total Zinc (Zn)	2008/02/22	1.5		%	25
1462235 AHA	MATRIX SPIKE	Total Organic Carbon (TOC)	2008/02/22		95	%	75 - 125
	Spiked Blank	Total Organic Carbon (TOC)	2008/02/22		94	%	75 - 125
	Method Blank	Total Organic Carbon (TOC)	2008/02/22	<0.1		mg/L	
	RPD	Total Organic Carbon (TOC)	2008/02/22	1.5		%	20
1462287 MGH	Spiked Blank	Colour	2008/02/25		101	%	75 - 125
	Method Blank	Colour	2008/02/25	<2		TCU	
	RPD	Colour	2008/02/25	NC		%	25
1462503 ADB	MATRIX SPIKE	Total Ammonia-N	2008/02/26		96	%	80 - 120
	Spiked Blank	Total Ammonia-N	2008/02/26		102	%	80 - 120
	Method Blank	Total Ammonia-N	2008/02/26	<0.05		mg/L	
	RPD	Total Ammonia-N	2008/02/26	NC		%	25
1462514 ADB	MATRIX SPIKE	Total Ammonia-N	2008/02/25		96	%	80 - 120
	Spiked Blank	Total Ammonia-N	2008/02/25		102	%	80 - 120
	Method Blank	Total Ammonia-N	2008/02/25	<0.05		mg/L	
	RPD	Total Ammonia-N	2008/02/25	NC		%	25

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA816432

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1462549 SUK	MATRIX SPIKE						
	[X25982-05]	Mercury (Hg)	2008/02/22		95	%	75 - 125
	QC STANDARD	Mercury (Hg)	2008/02/22		94	%	75 - 125
	Spiked Blank	Mercury (Hg)	2008/02/22		95	%	84 - 113
	Method Blank	Mercury (Hg)	2008/02/22	<0.1		ug/L	
1462732 YPA	RPD [X25982-05]	Mercury (Hg)	2008/02/22	NC		%	25
	QC STANDARD	Conductivity	2008/02/22		102	%	85 - 115
	Method Blank	Conductivity	2008/02/22	<2		umho/cm	
	RPD [X25983-01]	Conductivity	2008/02/22	0.4		%	25
1462733 YPA	QC STANDARD	Alkalinity (Total as CaCO3)	2008/02/22		100	%	85 - 115
	Method Blank	Alkalinity (Total as CaCO3)	2008/02/22	<1		mg/L	
	RPD [X25983-01]	Alkalinity (Total as CaCO3)	2008/02/22	0.6		%	25
1463208 LHA	MATRIX SPIKE	Total Phosphorus	2008/02/26		89	%	75 - 125
	QC STANDARD	Total Phosphorus	2008/02/26		93	%	85 - 115
	Spiked Blank	Total Phosphorus	2008/02/26		97	%	75 - 125
	Method Blank	Total Phosphorus	2008/02/26	<0.002		mg/L	
	RPD	Total Phosphorus	2008/02/26	2.8		%	25
1463313 AHA	MATRIX SPIKE	Total Organic Carbon (TOC)	2008/02/25		101	%	75 - 125
	Spiked Blank	Total Organic Carbon (TOC)	2008/02/25		102	%	75 - 125
	Method Blank	Total Organic Carbon (TOC)	2008/02/25	<0.1		mg/L	
	RPD	Total Organic Carbon (TOC)	2008/02/25	1.6		%	20
1463370 JOH	MATRIX SPIKE						
	[X25984-01]	Dissolved Calcium (Ca)	2008/02/26		99	%	85 - 115
		Dissolved Magnesium (Mg)	2008/02/26		93	%	85 - 115
		Dissolved Potassium (K)	2008/02/26		95	%	85 - 115
		Dissolved Sodium (Na)	2008/02/26		108	%	85 - 115
	Spiked Blank	Dissolved Calcium (Ca)	2008/02/26		102	%	85 - 115
		Dissolved Magnesium (Mg)	2008/02/26		97	%	85 - 115
		Dissolved Potassium (K)	2008/02/26		96	%	85 - 115
		Dissolved Sodium (Na)	2008/02/26		102	%	85 - 115
	Method Blank	Dissolved Calcium (Ca)	2008/02/26	<0.05		mg/L	
		Dissolved Magnesium (Mg)	2008/02/26	<0.05		mg/L	
		Dissolved Potassium (K)	2008/02/26	<1		mg/L	
		Dissolved Sodium (Na)	2008/02/26	<0.5		mg/L	
	RPD [X25984-01]	Dissolved Calcium (Ca)	2008/02/26	0.4		%	25
		Dissolved Magnesium (Mg)	2008/02/26	0.8		%	25
	Dissolved Potassium (K)	2008/02/26	NC		%	25	
	Dissolved Sodium (Na)	2008/02/26	NC		%	25	
1463667 DRM	MATRIX SPIKE	Dissolved Chloride (Cl)	2008/02/26		119	%	75 - 125
	Spiked Blank	Dissolved Chloride (Cl)	2008/02/26		105	%	80 - 120
	Method Blank	Dissolved Chloride (Cl)	2008/02/26	<1		mg/L	
	RPD	Dissolved Chloride (Cl)	2008/02/26	2.1		%	20
1463669 DRM	MATRIX SPIKE	Dissolved Sulphate (SO4)	2008/02/26		105	%	75 - 125
	Spiked Blank	Dissolved Sulphate (SO4)	2008/02/26		99	%	80 - 120
	Method Blank	Dissolved Sulphate (SO4)	2008/02/26	<1		mg/L	
	RPD	Dissolved Sulphate (SO4)	2008/02/26	3.4		%	25
1463671 DRM	MATRIX SPIKE	Orthophosphate (P)	2008/02/26		101	%	75 - 125
	Spiked Blank	Orthophosphate (P)	2008/02/26		100	%	80 - 120
	Method Blank	Orthophosphate (P)	2008/02/26	<0.01		mg/L	
	RPD	Orthophosphate (P)	2008/02/26	NC		%	25
1463819 MGH	Spiked Blank	Colour	2008/02/26		100	%	75 - 125
	Method Blank	Colour	2008/02/26	<2		TCU	
	RPD	Colour	2008/02/26	NC		%	25

C = Non-calculable  
PD = Relative Percent Difference

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA816432

QC Standard = Quality Control Standard  
SPIKE = Fortified sample

**Validation Signature Page**

**Maxxam Job #: A816432**

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

*Ewa Pranjic*  


\_\_\_\_\_  
EWA PRANJIC, M.Sc., C.Chem, Scientific Specialist

*M. Riskallah*

\_\_\_\_\_  
MEDHAT RISKALLAH, Manager, Hydrocarbon Department

*Suzana Popovic*

\_\_\_\_\_  
SUZANA POPOVIC, Supervisor, Hydrocarbons

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

20-Feb-08 08:53

CHAIN OF CUSTODY RECORD

**INVOICE INFORMATION:**

Company Name: #17501 Trow Associates Inc  
 Contact Name: Chris Perusse  
 Address: 1142 Roland St  
 Thunder Bay ON P7B 5M4  
 Phone: (807) 623-9495 x240 Fax: (807) 623-8070  
 Email: chris.perusse@trow.com, ahileas.mitsopoulos@tro

SAMANTHA LYONS  
 A816432  
 ABO ENV-817

**PROJECT INFORMATION:**  
 Quotation #: A64115  
 P.O. #:  
 Project #: ~~F-08106~~ F-08106  
 Project Name: LAWSDOWNE HOUSE  
 Site Location: RANDY WEPRUK  
 Sampled By:

**Laboratory Use Only:**  
 MAXXAM JOB #: BOTTLE ORDER #:  
 CHAIN OF CUSTODY #: PROJECT MANAGER:  
 SAMANTHA LYONS

**REGULATORY CRITERIA:**

MISA Reg: 153/04 Sewer Use  Sanitary  Storm  Combined  
 PW00  Table 1  Table 2  Table 3  Table 6  
 Reg. 658 Municipality: \_\_\_\_\_  
 Other (specify): \_\_\_\_\_

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form.  
 SAMPLE MUST BE RECEIVED FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

**SPECIAL INSTRUCTIONS**

**ANALYSIS REQUESTED (Please be specific):**

Regulated Drinking Water: ? (Y/N)	Municipal Fluid Filtered: ? (Y/N)	RCAP - Surfaces Water Pig	TSS-low	Colour	Mercury	Volatiles	F1-F4
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**TURNAROUND TIME (TAT) REQUIRED:**

PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS

Regular (Standard) TAT:   
 (will be applied if Rush TAT is not specified)  
 Standard TAT = 5-7 Working days for most tests.  
 Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.  
 Job Specific Rush TAT (if applies to entire submission):   
 Date Required: \_\_\_\_\_ Time Required: \_\_\_\_\_  
 Rush Confirmation Number: \_\_\_\_\_ (call lab for #)

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Matrix	Regulated Drinking Water: ? (Y/N)	Municipal Fluid Filtered: ? (Y/N)	RCAP - Surfaces Water Pig	TSS-low	Colour	Mercury	Volatiles	F1-F4	# of Bottles	Comments
1	DS 1 08	Feb 17/08	SW	N	N	X	X	X	X			8	
2	DS 2 08		SW	N	N	X	X	X	X			8	
3	DS 3 08		SW	N	N	X	X	X	X			8	
4	DS 4 08		SW	N	N	X	X	X	X	X	X	14	
5	DS 6 08		SW	N	N	X	X	X	X			8	
6	DS 7 08		SW	N	N	X	X	X	X			8	
7	BG 1 08		SW	N	N	X	X	X	X	X	X	14	
8	BG 2 08		SW	N	N	X	X	X	X	X	X	14	
9	BG 3 08	Feb 17/08	SW	N	N	X	X	X	X	X	X	14	FEB 20 '08 8:53
10			SW										

**RELINQUISHED BY: (Signature/Print)** Randy Wepruk  
**DATE: (YY/MM/DD)** 08/02/08  
**TIME:**  
**RECEIVED BY: (Signature/Print)** Samantha Lyons  
**DATE: (YY/MM/DD)** 08/02/08  
**TIME:** 8:53

**Laboratory Use Only:**  
 Temperature (°C) on Receipt: 0/11.0°C  
 Condition of Sample on Receipt:  OK  SIF  
 Custody Seal Intact on Cooler?:  Yes  No

\*IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.



Your Project #: F-08106  
Site: LANSDOWNE HOUSE  
Your C.O.C. #: 84634-01

**Attention: Chris Perusse**

Trow Associates Inc  
Thunder Bay Branch  
1142 Roland St  
Thunder Bay, ON  
P7B 5M4

Report Date: 2008/07/08

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: A869534**

**Received: 2008/06/28, 10:13**

Sample Matrix: Water  
# Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Alkalinity	9	N/A	2008/07/04	CAM SOP-00448	SM 2320B
Carbonate, Bicarbonate and Hydroxide	9	N/A	2008/07/05		
Chloride by Automated Colourimetry	9	N/A	2008/07/07	CAM SOP-00463	SM 4500 Cl E
Colour	9	N/A	2008/07/03	CAM SOP-00412	APHA 1220
Conductivity	9	N/A	2008/07/04	CAM SOP-00448	SM 2510
Petroleum Hydro. CCME F1 & BTEX in Water	9	N/A	2008/07/03	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	9	2008/07/02	2008/07/03	CAM SOP-00316	CCME Hydrocarbons
Hardness (calculated as CaCO3)	9	N/A	2008/07/07	CAM SOP 0102	SM 2340 B
Mercury	9	2008/07/07	2008/07/07	CAM SOP-00453	EPA 7470
Lab Filtered Metals Analysis by ICP	9	2008/07/04	2008/07/07	CAM SOP-00408	EPA 6010
Total Metals Analysis by ICPMS	9	N/A	2008/07/07	CAM SOP-00447	EPA 6020
Ammonia-N	9	N/A	2008/07/07	CAM SOP-00441	US GS I-2522-90
Nitrate (NO3) and Nitrite (NO2) in Water (l)	9	N/A	2008/07/04	CAM SOP-00440	SM 4500 NO3 l
pH	9	N/A	2008/07/04	CAM SOP-00448	SM 4500H
Orthophosphate	9	N/A	2008/07/07	CAM SOP-00461	SM 4500 P-F
Sat. pH and Langelier Index (@ 20C)	9	N/A	2008/07/07		
Sat. pH and Langelier Index (@ 4C)	9	N/A	2008/07/07		
Sulphate by Automated Colourimetry	9	N/A	2008/07/07	CAM SOP-00464	EPA 375.4
Total Dissolved Solids (TDS calc)	9	N/A	2008/07/07		
Total Organic Carbon (TOC)	9	N/A	2008/07/04	CAM SOP-00446	EPA 415.1 modified
Total Phosphorus (Colourimetric)	9	2008/07/04	2008/07/07	CAM SOP-00407	APHA 4500 P,B,F
Low Level Total Suspended Solids	9	N/A	2008/07/02	CAM SOP-00428	SM 2540D
Turbidity	9	N/A	2008/07/02	CAM SOP-00417	APHA 2130
Volatile Organic Compounds in Water	9	N/A	2008/07/04	CAM SOP-00226	EPA 8260 modified

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

Your Project #: F-08106  
Site: LANSDOWNE HOUSE  
Your C.O.C. #: 84634-01

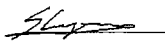
**Attention: Chris Perusse**  
Trow Associates Inc  
Thunder Bay Branch  
1142 Roland St  
Thunder Bay, ON  
P7B 5M4

**Report Date: 2008/07/08**

**CERTIFICATE OF ANALYSIS**

-2-

**Encryption Key**



Sam Lyons

08 Jul 2008 17:04:32 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

SAMANTHA LYONS, Project Manager  
Email: [samantha.lyons@maxxamanalytics.com](mailto:samantha.lyons@maxxamanalytics.com)  
Phone# (905) 817-5700 Ext:5797

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

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Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

**OREG 153 PETROLEUM HYDROCARBONS (WATER)**

Maxxam ID		Z58302		Z58303	Z58304		
Sampling Date		2008/06/25		2008/06/25	2008/06/25		
COC Number		84634-01		84634-01	84634-01		
	<b>Units</b>	<b>BG308</b>	<b>QC Batch</b>	<b>BG208</b>	<b>DS708</b>	<b>RDL</b>	<b>QC Batch</b>

<b>BTEX &amp; F1 Hydrocarbons</b>							
F1 (C6-C10)	ug/L	<100	1551653	<100	<100	100	1551653
F1 (C6-C10) - BTEX	ug/L	<100	1551653	<100	<100	100	1551653
<b>F2-F4 Hydrocarbons</b>							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	1551452	<100	<100	100	1551028
F3 (C16-C34 Hydrocarbons)	ug/L	<100	1551452	<100	<100	100	1551028
F4 (C34-C50 Hydrocarbons)	ug/L	<100	1551452	<100	<100	100	1551028
Reached Baseline at C50	ug/L	Yes	1551452	Yes	Yes		1551028
<b>Surrogate Recovery (%)</b>							
1,4-Difluorobenzene	%	104	1551653	104	103		1551653
4-Bromofluorobenzene	%	100	1551653	100	99		1551653
D10-Ethylbenzene	%	112	1551653	109	113		1551653
D4-1,2-Dichloroethane	%	101	1551653	101	99		1551653
o-Terphenyl	%	110	1551452	92	88		1551028

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

**OREG 153 PETROLEUM HYDROCARBONS (WATER)**

Maxxam ID		Z58305	Z58306		Z58307		
Sampling Date		2008/06/25	2008/06/25		2008/06/25		
COC Number		84634-01	84634-01		84634-01		
	Units	DS608	DS308	QC Batch	DS208	RDL	QC Batch

<b>BTEX &amp; F1 Hydrocarbons</b>							
F1 (C6-C10)	ug/L	<100	<100	1551653	<100	100	1551653
F1 (C6-C10) - BTEX	ug/L	<100	<100	1551653	<100	100	1551653
<b>F2-F4 Hydrocarbons</b>							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	1551028	<100	100	1551452
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	1551028	<100	100	1551452
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	1551028	<100	100	1551452
Reached Baseline at C50	ug/L	Yes	Yes	1551028	Yes		1551452
<b>Surrogate Recovery (%)</b>							
1,4-Difluorobenzene	%	104	104	1551653	105		1551653
4-Bromofluorobenzene	%	100	100	1551653	99		1551653
D10-Ethylbenzene	%	111	110	1551653	112		1551653
D4-1,2-Dichloroethane	%	99	100	1551653	100		1551653
o-Terphenyl	%	86	83	1551028	107		1551452

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

**OREG 153 PETROLEUM HYDROCARBONS (WATER)**

Maxxam ID		Z58308	Z58309	Z58310		
Sampling Date		2008/06/25	2008/06/25	2008/06/25		
COC Number		84634-01	84634-01	84634-01		
	Units	DS108	BG108	DS408	RDL	QC Batch

<b>BTEX &amp; F1 Hydrocarbons</b>						
F1 (C6-C10)	ug/L	<100	<100	<100	100	1551653
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	1551653
<b>F2-F4 Hydrocarbons</b>						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	1551452
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	100	1551452
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	100	1551452
Reached Baseline at C50	ug/L	Yes	Yes	Yes		1551452
<b>Surrogate Recovery (%)</b>						
1,4-Difluorobenzene	%	102	102	103		1551653
4-Bromofluorobenzene	%	98	99	98		1551653
D10-Ethylbenzene	%	109	109	109		1551653
D4-1,2-Dichloroethane	%	101	100	99		1551653
o-Terphenyl	%	93	96	106		1551452

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		Z58302	Z58302		Z58303		
Sampling Date		2008/06/25	2008/06/25		2008/06/25		
COC Number		84634-01	84634-01		84634-01		
	Units	BG308	BG308 Lab-Dup	QC Batch	BG208	RDL	QC Batch

Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	37		1550331	60	1	1550331
Calculated TDS	mg/L	38		1550338	59	1	1550338
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1		1550331	<1	1	1550331
Hardness (CaCO3)	mg/L	39		1550333	61	1	1550333
Langelier Index (@ 20C)	N/A	-0.854		1550336	-0.250		1550336
Langelier Index (@ 4C)	N/A	-1.11		1550337	-0.502		1550337
Saturation pH (@ 20C)	N/A	8.66		1550336	8.27		1550336
Saturation pH (@ 4C)	N/A	8.91		1550337	8.52		1550337
Inorganics							
Total Ammonia-N	mg/L	0.07		1552424	<0.05	0.05	1553085
Conductivity	umho/cm	74		1552720	116	2	1552720
Total Organic Carbon (TOC)	mg/L	12.2		1552402	6.4	0.1	1552981
Orthophosphate (P)	mg/L	<0.01	<0.01	1553575	<0.01	0.01	1553575
pH	pH	7.8		1552718	8.0		1552718
Total Phosphorus	mg/L	0.026		1553283	0.024	0.002	1553292
Dissolved Sulphate (SO4)	mg/L	<1	<1	1553576	<1	1	1553576
Turbidity	NTU	1.3		1551112	0.6	0.1	1551112
Alkalinity (Total as CaCO3)	mg/L	38		1552721	61	1	1552721
Dissolved Chloride (Cl)	mg/L	<1	<1	1553562	<1	1	1553562
Nitrite (N)	mg/L	<0.01		1551924	<0.01	0.01	1551924
Nitrate (N)	mg/L	<0.1		1551924	<0.1	0.1	1551924
Metals							
Dissolved Calcium (Ca)	mg/L	11.6		1553402	18.5	0.05	1553402
Dissolved Magnesium (Mg)	mg/L	2.50		1553402	3.55	0.05	1553402
Dissolved Potassium (K)	mg/L	<1		1553402	<1	1	1553402
Dissolved Sodium (Na)	mg/L	0.5		1553402	0.6	0.5	1553402
Total Aluminum (Al)	ug/L	25	24	1553276	12	5	1554124
Total Antimony (Sb)	ug/L	<0.5	<0.5	1553276	<0.5	0.5	1554124
Total Arsenic (As)	ug/L	<1	<1	1553276	<1	1	1554124
Total Barium (Ba)	ug/L	7	7	1553276	10	5	1554124
Total Beryllium (Be)	ug/L	<0.5	<0.5	1553276	<0.5	0.5	1554124
Total Boron (B)	ug/L	<10	<10	1553276	<10	10	1554124

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		Z58302	Z58302		Z58303		
Sampling Date		2008/06/25	2008/06/25		2008/06/25		
COC Number		84634-01	84634-01		84634-01		
	Units	BG308	BG308 Lab-Dup	QC Batch	BG208	RDL	QC Batch

Total Cadmium (Cd)	ug/L	<0.1	<0.1	1553276	<0.1	0.1	1554124
Total Calcium (Ca)	ug/L	12000	12000	1553276	18000	200	1554124
Total Chromium (Cr)	ug/L	<5	<5	1553276	23	5	1554124
Total Cobalt (Co)	ug/L	<0.5	<0.5	1553276	<0.5	0.5	1554124
Total Copper (Cu)	ug/L	<1	<1	1553276	<1	1	1554124
Total Iron (Fe)	ug/L	210	210	1553276	<100	100	1554124
Total Lead (Pb)	ug/L	<0.5	<0.5	1553276	<0.5	0.5	1554124
Total Magnesium (Mg)	ug/L	2800	2900	1553276	3600	50	1554124
Total Manganese (Mn)	ug/L	15	15	1553276	10	2	1554124
Total Molybdenum (Mo)	ug/L	<1	<1	1553276	<1	1	1554124
Total Nickel (Ni)	ug/L	<1	<1	1553276	<1	1	1554124
Total Potassium (K)	ug/L	740	730	1553276	370	200	1554124
Total Selenium (Se)	ug/L	<2	<2	1553276	<2	2	1554124
Total Silicon (Si)	ug/L	290	270	1553276	1200	50	1554124
Total Silver (Ag)	ug/L	<0.1	<0.1	1553276	<0.1	0.1	1554124
Total Sodium (Na)	ug/L	590	570	1553276	680	100	1554124
Total Thallium (Tl)	ug/L	<0.05	<0.05	1553276	<0.05	0.05	1554124
Total Tungsten (W)	ug/L	<1	<1	1553276	<1	1	1554124
Total Uranium (U)	ug/L	<0.1	<0.1	1553276	<0.1	0.1	1554124
Total Vanadium (V)	ug/L	<1	<1	1553276	<1	1	1554124
Total Zinc (Zn)	ug/L	<5	<5	1553276	<5	5	1554124
Total Zirconium (Zr)	ug/L	<1	<1	1553276	<1	1	1554124

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		Z58303		Z58304	Z58304		
Sampling Date		2008/06/25		2008/06/25	2008/06/25		
COC Number		84634-01		84634-01	84634-01		
	Units	BG208 Lab-Dup	QC Batch	DS708	DS708 Lab-Dup	RDL	QC Batch

Calculated Parameters							
Bicarb. Alkalinity (calc. as CaCO3)	mg/L		1550331	65		1	1550331
Calculated TDS	mg/L		1550338	66		1	1550338
Carb. Alkalinity (calc. as CaCO3)	mg/L		1550331	<1		1	1550331
Hardness (CaCO3)	mg/L		1550333	68		1	1550333
Langelier Index (@ 20C)	N/A		1550336	-0.143			1550336
Langelier Index (@ 4C)	N/A		1550337	-0.395			1550337
Saturation pH (@ 20C)	N/A		1550336	8.18			1550336
Saturation pH (@ 4C)	N/A		1550337	8.43			1550337
Inorganics							
Total Ammonia-N	mg/L		1553085	0.10		0.05	1552424
Conductivity	umho/cm		1552720	127		2	1552720
Total Organic Carbon (TOC)	mg/L	6.4	1552981	11.5		0.1	1552981
Orthophosphate (P)	mg/L		1553575	<0.01		0.01	1553575
pH	pH		1552718	8.0			1552718
Total Phosphorus	mg/L		1553292	0.072		0.002	1553285
Dissolved Sulphate (SO4)	mg/L		1553576	<1		1	1553576
Turbidity	NTU	0.7	1551112	1.2		0.1	1551112
Alkalinity (Total as CaCO3)	mg/L		1552721	66		1	1552721
Dissolved Chloride (Cl)	mg/L		1553562	1		1	1553562
Nitrite (N)	mg/L		1551924	<0.01		0.01	1551943
Nitrate (N)	mg/L		1551924	<0.1		0.1	1551943
Metals							
Dissolved Calcium (Ca)	mg/L		1553402	20.9	20.9	0.05	1553402
Dissolved Magnesium (Mg)	mg/L		1553402	3.92	3.90	0.05	1553402
Dissolved Potassium (K)	mg/L		1553402	<1	<1	1	1553402
Dissolved Sodium (Na)	mg/L		1553402	0.6	0.5	0.5	1553402
Total Aluminum (Al)	ug/L		1554124	20		5	1554124
Total Antimony (Sb)	ug/L		1554124	<0.5		0.5	1554124
Total Arsenic (As)	ug/L		1554124	<1		1	1554124
Total Barium (Ba)	ug/L		1554124	10		5	1554124
Total Beryllium (Be)	ug/L		1554124	<0.5		0.5	1554124
Total Boron (B)	ug/L		1554124	<10		10	1554124

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch



Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		Z58303		Z58304	Z58304		
Sampling Date		2008/06/25		2008/06/25	2008/06/25		
COC Number		84634-01		84634-01	84634-01		
	Units	BG208 Lab-Dup	QC Batch	DS708	DS708 Lab-Dup	RDL	QC Batch

Total Cadmium (Cd)	ug/L		1554124	<0.1		0.1	1554124
Total Calcium (Ca)	ug/L		1554124	19000		200	1554124
Total Chromium (Cr)	ug/L		1554124	<5		5	1554124
Total Cobalt (Co)	ug/L		1554124	<0.5		0.5	1554124
Total Copper (Cu)	ug/L		1554124	<1		1	1554124
Total Iron (Fe)	ug/L		1554124	<100		100	1554124
Total Lead (Pb)	ug/L		1554124	<0.5		0.5	1554124
Total Magnesium (Mg)	ug/L		1554124	3800		50	1554124
Total Manganese (Mn)	ug/L		1554124	12		2	1554124
Total Molybdenum (Mo)	ug/L		1554124	<1		1	1554124
Total Nickel (Ni)	ug/L		1554124	<1		1	1554124
Total Potassium (K)	ug/L		1554124	820		200	1554124
Total Selenium (Se)	ug/L		1554124	<2		2	1554124
Total Silicon (Si)	ug/L		1554124	590		50	1554124
Total Silver (Ag)	ug/L		1554124	<0.1		0.1	1554124
Total Sodium (Na)	ug/L		1554124	610		100	1554124
Total Thallium (Tl)	ug/L		1554124	<0.05		0.05	1554124
Total Tungsten (W)	ug/L		1554124	<1		1	1554124
Total Uranium (U)	ug/L		1554124	<0.1		0.1	1554124
Total Vanadium (V)	ug/L		1554124	<1		1	1554124
Total Zinc (Zn)	ug/L		1554124	<5		5	1554124
Total Zirconium (Zr)	ug/L		1554124	<1		1	1554124

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		Z58305		Z58306		
Sampling Date		2008/06/25		2008/06/25		
COC Number		84634-01		84634-01		
	Units	DS608	QC Batch	DS308	RDL	QC Batch

Calculated Parameters						
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	73	1550331	15	1	1550331
Calculated TDS	mg/L	77	1550338	18	1	1550338
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1550331	<1	1	1550331
Hardness (CaCO3)	mg/L	76	1550333	20	1	1550333
Langelier Index (@ 20C)	N/A	-0.0160	1550336	-1.92		1550336
Langelier Index (@ 4C)	N/A	-0.267	1550337	-2.17		1550337
Saturation pH (@ 20C)	N/A	8.10	1550336	9.31		1550336
Saturation pH (@ 4C)	N/A	8.35	1550337	9.56		1550337
Inorganics						
Total Ammonia-N	mg/L	0.09	1552424	0.13	0.05	1553085
Conductivity	umho/cm	143	1552720	36	2	1552720
Total Organic Carbon (TOC)	mg/L	10.5	1552402	12.3	0.1	1552981
Orthophosphate (P)	mg/L	<0.01	1553575	<0.01	0.01	1553575
pH	pH	8.1	1552718	7.4		1552718
Total Phosphorus	mg/L	0.033	1553292	0.032	0.002	1553285
Dissolved Sulphate (SO4)	mg/L	<1	1553576	<1	1	1553576
Turbidity	NTU	1.2	1551112	1.2	0.1	1551112
Alkalinity (Total as CaCO3)	mg/L	74	1552721	15	1	1552721
Dissolved Chloride (Cl)	mg/L	1	1553562	1	1	1553562
Nitrite (N)	mg/L	<0.01	1551924	<0.01	0.01	1551924
Nitrate (N)	mg/L	<0.1	1551924	<0.1	0.1	1551924
Metals						
Dissolved Calcium (Ca)	mg/L	23.0	1553402	6.19	0.05	1553402
Dissolved Magnesium (Mg)	mg/L	4.38	1553402	1.16	0.05	1553402
Dissolved Potassium (K)	mg/L	<1	1553402	<1	1	1553402
Dissolved Sodium (Na)	mg/L	0.7	1553402	<0.5	0.5	1553402
Total Aluminum (Al)	ug/L	33	1553276	67	5	1554124
Total Antimony (Sb)	ug/L	<0.5	1553276	<0.5	0.5	1554124
Total Arsenic (As)	ug/L	2	1553276	2	1	1554124
Total Barium (Ba)	ug/L	10	1553276	<5	5	1554124
Total Beryllium (Be)	ug/L	<0.5	1553276	<0.5	0.5	1554124
Total Boron (B)	ug/L	<10	1553276	<10	10	1554124
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		Z58305		Z58306		
Sampling Date		2008/06/25		2008/06/25		
COC Number		84634-01		84634-01		
	Units	DS608	QC Batch	DS308	RDL	QC Batch
Total Cadmium (Cd)	ug/L	<0.1	1553276	<0.1	0.1	1554124
Total Calcium (Ca)	ug/L	25000	1553276	5500	200	1554124
Total Chromium (Cr)	ug/L	<5	1553276	<5	5	1554124
Total Cobalt (Co)	ug/L	<0.5	1553276	<0.5	0.5	1554124
Total Copper (Cu)	ug/L	<1	1553276	<1	1	1554124
Total Iron (Fe)	ug/L	100	1553276	110	100	1554124
Total Lead (Pb)	ug/L	<0.5	1553276	<0.5	0.5	1554124
Total Magnesium (Mg)	ug/L	5100	1553276	1100	50	1554124
Total Manganese (Mn)	ug/L	25	1553276	5	2	1554124
Total Molybdenum (Mo)	ug/L	<1	1553276	<1	1	1554124
Total Nickel (Ni)	ug/L	<1	1553276	<1	1	1554124
Total Potassium (K)	ug/L	1200	1553276	220	200	1554124
Total Selenium (Se)	ug/L	<2	1553276	<2	2	1554124
Total Silicon (Si)	ug/L	1400	1553276	280	50	1554124
Total Silver (Ag)	ug/L	<0.1	1553276	<0.1	0.1	1554124
Total Sodium (Na)	ug/L	890	1553276	300	100	1554124
Total Thallium (Tl)	ug/L	<0.05	1553276	<0.05	0.05	1554124
Total Tungsten (W)	ug/L	<1	1553276	<1	1	1554124
Total Uranium (U)	ug/L	<0.1	1553276	<0.1	0.1	1554124
Total Vanadium (V)	ug/L	<1	1553276	<1	1	1554124
Total Zinc (Zn)	ug/L	11	1553276	<5	5	1554124
Total Zirconium (Zr)	ug/L	<1	1553276	<1	1	1554124
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		Z58307		Z58308		
Sampling Date		2008/06/25		2008/06/25		
COC Number		84634-01		84634-01		
	Units	DS208	QC Batch	DS108	RDL	QC Batch
<b>Calculated Parameters</b>						
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	40	1550331	31	1	1550331
Calculated TDS	mg/L	43	1550338	35	1	1550338
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1550331	<1	1	1550331
Hardness (CaCO3)	mg/L	45	1550333	35	1	1550333
Langelier Index (@ 20C)	N/A	-0.759	1550336	-1.10		1550336
Langelier Index (@ 4C)	N/A	-1.01	1550337	-1.35		1550337
Saturation pH (@ 20C)	N/A	8.56	1550336	8.78		1550336
Saturation pH (@ 4C)	N/A	8.82	1550337	9.03		1550337
<b>Inorganics</b>						
Total Ammonia-N	mg/L	0.05	1552424	0.10	0.05	1552424
Conductivity	umho/cm	82	1552720	64	2	1552720
Total Organic Carbon (TOC)	mg/L	11.5	1552402	12.0	0.1	1552402
Orthophosphate (P)	mg/L	<0.01	1553575	0.01	0.01	1553575
pH	pH	7.8	1552718	7.7		1552718
Total Phosphorus	mg/L	0.031	1553285	0.059	0.002	1553285
Dissolved Sulphate (SO4)	mg/L	<1	1553576	<1	1	1553576
Turbidity	NTU	1.3	1551112	1.2	0.1	1551112
Alkalinity (Total as CaCO3)	mg/L	41	1552721	31	1	1552721
Dissolved Chloride (Cl)	mg/L	1	1553562	1	1	1553562
Nitrite (N)	mg/L	<0.01	1551924	<0.01	0.01	1551943
Nitrate (N)	mg/L	<0.1	1551924	<0.1	0.1	1551943
<b>Metals</b>						
Dissolved Calcium (Ca)	mg/L	13.5	1553402	10.6	0.05	1553402
Dissolved Magnesium (Mg)	mg/L	2.71	1553402	2.13	0.05	1553402
Dissolved Potassium (K)	mg/L	<1	1553402	<1	1	1553402
Dissolved Sodium (Na)	mg/L	0.6	1553402	<0.5	0.5	1553402
Total Aluminum (Al)	ug/L	43	1554124	58	5	1553276
Total Antimony (Sb)	ug/L	<0.5	1554124	<0.5	0.5	1553276
Total Arsenic (As)	ug/L	1	1554124	2	1	1553276
Total Barium (Ba)	ug/L	6	1554124	5	5	1553276
Total Beryllium (Be)	ug/L	<0.5	1554124	<0.5	0.5	1553276
Total Boron (B)	ug/L	<10	1554124	<10	10	1553276
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		Z58307		Z58308		
Sampling Date		2008/06/25		2008/06/25		
COC Number		84634-01		84634-01		
	Units	DS208	QC Batch	DS108	RDL	QC Batch
Total Cadmium (Cd)	ug/L	<0.1	1554124	<0.1	0.1	1553276
Total Calcium (Ca)	ug/L	12000	1554124	11000	200	1553276
Total Chromium (Cr)	ug/L	<5	1554124	<5	5	1553276
Total Cobalt (Co)	ug/L	<0.5	1554124	<0.5	0.5	1553276
Total Copper (Cu)	ug/L	1	1554124	1	1	1553276
Total Iron (Fe)	ug/L	<100	1554124	110	100	1553276
Total Lead (Pb)	ug/L	<0.5	1554124	0.9	0.5	1553276
Total Magnesium (Mg)	ug/L	2500	1554124	2300	50	1553276
Total Manganese (Mn)	ug/L	4	1554124	13	2	1553276
Total Molybdenum (Mo)	ug/L	<1	1554124	<1	1	1553276
Total Nickel (Ni)	ug/L	<1	1554124	2	1	1553276
Total Potassium (K)	ug/L	590	1554124	450	200	1553276
Total Selenium (Se)	ug/L	<2	1554124	<2	2	1553276
Total Silicon (Si)	ug/L	1500	1554124	1200	50	1553276
Total Silver (Ag)	ug/L	<0.1	1554124	<0.1	0.1	1553276
Total Sodium (Na)	ug/L	540	1554124	590	100	1553276
Total Thallium (Tl)	ug/L	<0.05	1554124	<0.05	0.05	1553276
Total Tungsten (W)	ug/L	<1	1554124	<1	1	1553276
Total Uranium (U)	ug/L	<0.1	1554124	<0.1	0.1	1553276
Total Vanadium (V)	ug/L	<1	1554124	<1	1	1553276
Total Zinc (Zn)	ug/L	<5	1554124	7	5	1553276
Total Zirconium (Zr)	ug/L	<1	1554124	<1	1	1553276

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		Z58309		Z58310			
Sampling Date		2008/06/25		2008/06/25			
COC Number		84634-01		84634-01			
	Units	BG108	RDL	QC Batch	DS408	RDL	QC Batch
<b>Calculated Parameters</b>							
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	37	1	1550331	23	1	1550331
Calculated TDS	mg/L	38	1	1550338	23	1	1550338
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	1550331	<1	1	1550331
Hardness (CaCO3)	mg/L	39	1	1550333	25	1	1550333
Langelier Index (@ 20C)	N/A	-0.874		1550336	-1.47		1550336
Langelier Index (@ 4C)	N/A	-1.13		1550337	-1.72		1550337
Saturation pH (@ 20C)	N/A	8.67		1550336	9.04		1550336
Saturation pH (@ 4C)	N/A	8.92		1550337	9.29		1550337
<b>Inorganics</b>							
Total Ammonia-N	mg/L	0.06	0.05	1553085	0.11	0.05	1552424
Conductivity	umho/cm	74	2	1552720	47	2	1552720
Total Organic Carbon (TOC)	mg/L	12.2	0.1	1552981	12.6	0.1	1552402
Orthophosphate (P)	mg/L	<0.01	0.01	1553575	<0.01	0.01	1553575
pH	pH	7.8		1552718	7.6		1552718
Total Phosphorus	mg/L	0.025	0.004	1553285	0.045	0.002	1553283
Dissolved Sulphate (SO4)	mg/L	<1	1	1553576	<1	1	1553576
Turbidity	NTU	1.5	0.1	1551112	1.4	0.1	1551112
Alkalinity (Total as CaCO3)	mg/L	37	1	1552721	23	1	1552721
Dissolved Chloride (Cl)	mg/L	1	1	1553562	<1	1	1553562
Nitrite (N)	mg/L	<0.01	0.01	1551943	<0.01	0.01	1551924
Nitrate (N)	mg/L	<0.1	0.1	1551943	<0.1	0.1	1551924
<b>Metals</b>							
Dissolved Calcium (Ca)	mg/L	11.6	0.05	1553402	7.53	0.05	1553402
Dissolved Magnesium (Mg)	mg/L	2.48	0.05	1553402	1.48	0.05	1553402
Dissolved Potassium (K)	mg/L	<1	1	1553402	<1	1	1553402
Dissolved Sodium (Na)	mg/L	0.5	0.5	1553402	<0.5	0.5	1553402
Total Aluminum (Al)	ug/L	20	5	1554124	56	5	1554124
Total Antimony (Sb)	ug/L	<0.5	0.5	1554124	<0.5	0.5	1554124
Total Arsenic (As)	ug/L	<1	1	1554124	2	1	1554124
Total Barium (Ba)	ug/L	6	5	1554124	<5	5	1554124
Total Beryllium (Be)	ug/L	<0.5	0.5	1554124	<0.5	0.5	1554124
Total Boron (B)	ug/L	<10	10	1554124	<10	10	1554124
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		Z58309			Z58310		
Sampling Date		2008/06/25			2008/06/25		
COC Number		84634-01			84634-01		
	Units	BG108	RDL	QC Batch	DS408	RDL	QC Batch

Total Cadmium (Cd)	ug/L	<0.1	0.1	1554124	<0.1	0.1	1554124
Total Calcium (Ca)	ug/L	11000	200	1554124	7000	200	1554124
Total Chromium (Cr)	ug/L	<5	5	1554124	<5	5	1554124
Total Cobalt (Co)	ug/L	<0.5	0.5	1554124	<0.5	0.5	1554124
Total Copper (Cu)	ug/L	<1	1	1554124	<1	1	1554124
Total Iron (Fe)	ug/L	170	100	1554124	<100	100	1554124
Total Lead (Pb)	ug/L	<0.5	0.5	1554124	<0.5	0.5	1554124
Total Magnesium (Mg)	ug/L	2500	50	1554124	1500	50	1554124
Total Manganese (Mn)	ug/L	13	2	1554124	6	2	1554124
Total Molybdenum (Mo)	ug/L	<1	1	1554124	<1	1	1554124
Total Nickel (Ni)	ug/L	<1	1	1554124	<1	1	1554124
Total Potassium (K)	ug/L	620	200	1554124	400	200	1554124
Total Selenium (Se)	ug/L	<2	2	1554124	<2	2	1554124
Total Silicon (Si)	ug/L	230	50	1554124	79	50	1554124
Total Silver (Ag)	ug/L	<0.1	0.1	1554124	<0.1	0.1	1554124
Total Sodium (Na)	ug/L	480	100	1554124	390	100	1554124
Total Thallium (Tl)	ug/L	<0.05	0.05	1554124	<0.05	0.05	1554124
Total Tungsten (W)	ug/L	<1	1	1554124	<1	1	1554124
Total Uranium (U)	ug/L	<0.1	0.1	1554124	<0.1	0.1	1554124
Total Vanadium (V)	ug/L	<1	1	1554124	<1	1	1554124
Total Zinc (Zn)	ug/L	<5	5	1554124	<5	5	1554124
Total Zirconium (Zr)	ug/L	<1	1	1554124	<1	1	1554124

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

### RESULTS OF ANALYSES OF WATER

Maxxam ID		Z58302	Z58303	Z58303	Z58304		
Sampling Date		2008/06/25	2008/06/25	2008/06/25	2008/06/25		
COC Number		84634-01	84634-01	84634-01	84634-01		
	Units	BG308	BG208	BG208 Lab-Dup	DS708	RDL	QC Batch

<b>Inorganics</b>							
Colour	TCU	39	8	8	36	2	1552296
Total Suspended Solids	mg/L	2	3		3	1	1550755

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam ID		Z58305		Z58306	Z58307	Z58308	
Sampling Date		2008/06/25		2008/06/25	2008/06/25	2008/06/25	
COC Number		84634-01		84634-01	84634-01	84634-01	
	Units	DS608	QC Batch	DS308	DS208	DS108	RDL QC Batch

<b>Inorganics</b>							
Colour	TCU	35	1552235	85	76	86	2 1552296
Total Suspended Solids	mg/L	1	1550755	1	1	<1	1 1550755

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam ID		Z58309	Z58309	Z58310		
Sampling Date		2008/06/25	2008/06/25	2008/06/25		
COC Number		84634-01	84634-01	84634-01		
	Units	BG108	BG108 Lab-Dup	DS408	RDL	QC Batch

<b>Inorganics</b>						
Colour	TCU	40		49	2	1552296
Total Suspended Solids	mg/L	2	2	2	1	1550755

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch



Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

Maxxam ID		Z58302	Z58303	Z58304	Z58305	Z58306		
Sampling Date		2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25		
COC Number		84634-01	84634-01	84634-01	84634-01	84634-01		
	<b>Units</b>	<b>BG308</b>	<b>BG208</b>	<b>DS708</b>	<b>DS608</b>	<b>DS308</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Metals</b>								
Mercury (Hg)	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1554373

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam ID		Z58307	Z58308	Z58309	Z58310	Z58310		
Sampling Date		2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25		
COC Number		84634-01	84634-01	84634-01	84634-01	84634-01		
	<b>Units</b>	<b>DS208</b>	<b>DS108</b>	<b>BG108</b>	<b>DS408</b>	<b>DS408 Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Metals</b>								
Mercury (Hg)	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1554373

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		Z58302	Z58303	Z58303	Z58304		
Sampling Date		2008/06/25	2008/06/25	2008/06/25	2008/06/25		
COC Number		84634-01	84634-01	84634-01	84634-01		
	Units	BG308	BG208	BG208 Lab-Dup	DS708	RDL	QC Batch

Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	10	1550881
Benzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Bromodichloromethane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Bromoform	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Bromomethane	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	1550881
Carbon Tetrachloride	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Chlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Chloroform	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Dibromochloromethane	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,2-Dichlorobenzene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,3-Dichlorobenzene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,4-Dichlorobenzene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,1-Dichloroethane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
1,2-Dichloroethane	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,1-Dichloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
cis-1,2-Dichloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
trans-1,2-Dichloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
1,2-Dichloropropane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
cis-1,3-Dichloropropene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
trans-1,3-Dichloropropene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Ethylbenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Ethylene Dibromide	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Methylene Chloride(Dichloromethane)	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	1550881
Methyl Isobutyl Ketone	ug/L	<5	<5	<5	<5	5	1550881
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5	<5	<5	<5	5	1550881
Methyl t-butyl ether (MTBE)	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Styrene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,1,1,2-Tetrachloroethane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
1,1,2,2-Tetrachloroethane	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Tetrachloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Toluene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,1,1-Trichloroethane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		Z58302	Z58303	Z58303	Z58304		
Sampling Date		2008/06/25	2008/06/25	2008/06/25	2008/06/25		
COC Number		84634-01	84634-01	84634-01	84634-01		
	Units	BG308	BG208	BG208 Lab-Dup	DS708	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Trichloroethylene	ug/L	0.1	0.2	0.2	0.2	0.1	1550881
Vinyl Chloride	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
p+m-Xylene	ug/L	<0.1	0.2	0.2	0.3	0.1	1550881
o-Xylene	ug/L	<0.1	<0.1	<0.1	0.1	0.1	1550881
Xylene (Total)	ug/L	<0.1	0.2	0.2	0.4	0.1	1550881
<b>Surrogate Recovery (%)</b>							
4-Bromofluorobenzene	%	91	92	90	91		1550881
D4-1,2-Dichloroethane	%	106	104	105	105		1550881
D8-Toluene	%	98	101	100	100		1550881
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		Z58305	Z58306	Z58307	Z58308		
Sampling Date		2008/06/25	2008/06/25	2008/06/25	2008/06/25		
COC Number		84634-01	84634-01	84634-01	84634-01		
	Units	DS608	DS308	DS208	DS108	RDL	QC Batch

Volatile Organics							
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	10	1550881
Benzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Bromodichloromethane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Bromoform	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Bromomethane	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	1550881
Carbon Tetrachloride	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Chlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Chloroform	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Dibromochloromethane	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,2-Dichlorobenzene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,3-Dichlorobenzene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,4-Dichlorobenzene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,1-Dichloroethane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
1,2-Dichloroethane	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,1-Dichloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
cis-1,2-Dichloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
trans-1,2-Dichloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
1,2-Dichloropropane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
cis-1,3-Dichloropropene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
trans-1,3-Dichloropropene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Ethylbenzene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Ethylene Dibromide	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Methylene Chloride(Dichloromethane)	ug/L	<0.5	<0.5	<0.5	<0.5	0.5	1550881
Methyl Isobutyl Ketone	ug/L	<5	<5	<5	<5	5	1550881
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5	<5	<5	<5	5	1550881
Methyl t-butyl ether (MTBE)	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Styrene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,1,1,2-Tetrachloroethane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
1,1,2,2-Tetrachloroethane	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Tetrachloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Toluene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,1,1-Trichloroethane	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		Z58305	Z58306	Z58307	Z58308		
Sampling Date		2008/06/25	2008/06/25	2008/06/25	2008/06/25		
COC Number		84634-01	84634-01	84634-01	84634-01		
	Units	DS608	DS308	DS208	DS108	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Trichloroethylene	ug/L	0.2	0.2	0.2	0.2	0.1	1550881
Vinyl Chloride	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	1550881
p+m-Xylene	ug/L	0.1	0.2	0.2	0.2	0.1	1550881
o-Xylene	ug/L	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Xylene (Total)	ug/L	0.1	0.2	0.2	0.2	0.1	1550881
<b>Surrogate Recovery (%)</b>							
4-Bromofluorobenzene	%	91	90	95	91		1550881
D4-1,2-Dichloroethane	%	103	104	106	104		1550881
D8-Toluene	%	99	100	99	99		1550881
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		Z58309	Z58310		
Sampling Date		2008/06/25	2008/06/25		
COC Number		84634-01	84634-01		
	Units	BG108	DS408	RDL	QC Batch

Volatiles Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	1550881
Benzene	ug/L	<0.1	<0.1	0.1	1550881
Bromodichloromethane	ug/L	<0.1	<0.1	0.1	1550881
Bromoform	ug/L	<0.2	<0.2	0.2	1550881
Bromomethane	ug/L	<0.5	<0.5	0.5	1550881
Carbon Tetrachloride	ug/L	<0.1	<0.1	0.1	1550881
Chlorobenzene	ug/L	<0.1	<0.1	0.1	1550881
Chloroform	ug/L	<0.1	<0.1	0.1	1550881
Dibromochloromethane	ug/L	<0.2	<0.2	0.2	1550881
1,2-Dichlorobenzene	ug/L	<0.2	<0.2	0.2	1550881
1,3-Dichlorobenzene	ug/L	<0.2	<0.2	0.2	1550881
1,4-Dichlorobenzene	ug/L	<0.2	<0.2	0.2	1550881
1,1-Dichloroethane	ug/L	<0.1	<0.1	0.1	1550881
1,2-Dichloroethane	ug/L	<0.2	<0.2	0.2	1550881
1,1-Dichloroethylene	ug/L	<0.1	<0.1	0.1	1550881
cis-1,2-Dichloroethylene	ug/L	<0.1	<0.1	0.1	1550881
trans-1,2-Dichloroethylene	ug/L	<0.1	<0.1	0.1	1550881
1,2-Dichloropropane	ug/L	<0.1	<0.1	0.1	1550881
cis-1,3-Dichloropropene	ug/L	<0.2	<0.2	0.2	1550881
trans-1,3-Dichloropropene	ug/L	<0.2	<0.2	0.2	1550881
Ethylbenzene	ug/L	<0.1	<0.1	0.1	1550881
Ethylene Dibromide	ug/L	<0.2	<0.2	0.2	1550881
Methylene Chloride(Dichloromethane)	ug/L	<0.5	<0.5	0.5	1550881
Methyl Isobutyl Ketone	ug/L	<5	<5	5	1550881
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5	<5	5	1550881
Methyl t-butyl ether (MTBE)	ug/L	<0.2	<0.2	0.2	1550881
Styrene	ug/L	<0.2	<0.2	0.2	1550881
1,1,1,2-Tetrachloroethane	ug/L	<0.1	<0.1	0.1	1550881
1,1,1,2,2-Tetrachloroethane	ug/L	<0.2	<0.2	0.2	1550881
Tetrachloroethylene	ug/L	<0.1	<0.1	0.1	1550881
Toluene	ug/L	<0.2	<0.2	0.2	1550881
1,1,1-Trichloroethane	ug/L	<0.1	<0.1	0.1	1550881

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		Z58309	Z58310		
Sampling Date		2008/06/25	2008/06/25		
COC Number		84634-01	84634-01		
	Units	BG108	DS408	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.2	<0.2	0.2	1550881
Trichloroethylene	ug/L	0.2	0.2	0.1	1550881
Vinyl Chloride	ug/L	<0.2	<0.2	0.2	1550881
p+m-Xylene	ug/L	<0.1	<0.1	0.1	1550881
o-Xylene	ug/L	<0.1	<0.1	0.1	1550881
Xylene (Total)	ug/L	<0.1	<0.1	0.1	1550881
<b>Surrogate Recovery (%)</b>					
4-Bromofluorobenzene	%	92	91		1550881
D4-1,2-Dichloroethane	%	105	104		1550881
D8-Toluene	%	100	100		1550881
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

Package 1	0.7°C
Package 2	1.0°C
Package 3	0.3°C

Each temperature is the average of up to three cooler temperatures taken at receipt

**GENERAL COMMENTS**

F1-BTEX Analysis.

The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

**Results relate only to the items tested.**



Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report  
Maxxam Job Number: MA869534

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1550755 HAG	QC STANDARD	Total Suspended Solids	2008/07/02		103	%	85 - 115
	Method Blank	Total Suspended Solids	2008/07/02	<1		mg/L	
	RPD [Z58309-03]	Total Suspended Solids	2008/07/02	NC		%	25
1550881 AAD	MATRIX SPIKE	4-Bromofluorobenzene	2008/07/04		100	%	70 - 130
		D4-1,2-Dichloroethane	2008/07/04		101	%	70 - 130
		D8-Toluene	2008/07/04		100	%	70 - 130
		Acetone (2-Propanone)	2008/07/04		99	%	60 - 140
		Benzene	2008/07/04		95	%	70 - 130
		Bromodichloromethane	2008/07/04		95	%	70 - 130
		Bromoform	2008/07/04		106	%	70 - 130
		Bromomethane	2008/07/04		92	%	60 - 140
		Carbon Tetrachloride	2008/07/04		95	%	70 - 130
		Chlorobenzene	2008/07/04		86	%	70 - 130
		Chloroform	2008/07/04		98	%	70 - 130
		Dibromochloromethane	2008/07/04		100	%	70 - 130
		1,2-Dichlorobenzene	2008/07/04		77	%	70 - 130
		1,3-Dichlorobenzene	2008/07/04		76	%	70 - 130
		1,4-Dichlorobenzene	2008/07/04		78	%	70 - 130
		1,1-Dichloroethane	2008/07/04		99	%	70 - 130
		1,2-Dichloroethane	2008/07/04		94	%	70 - 130
		1,1-Dichloroethylene	2008/07/04		96	%	70 - 130
		cis-1,2-Dichloroethylene	2008/07/04		98	%	70 - 130
		trans-1,2-Dichloroethylene	2008/07/04		98	%	70 - 130
		1,2-Dichloropropane	2008/07/04		100	%	70 - 130
		cis-1,3-Dichloropropene	2008/07/04		98	%	70 - 130
		trans-1,3-Dichloropropene	2008/07/04		102	%	70 - 130
		Ethylbenzene	2008/07/04		87	%	70 - 130
		Ethylene Dibromide	2008/07/04		100	%	70 - 130
		Methylene Chloride(Dichloromethane)	2008/07/04		93	%	70 - 130
		Methyl Isobutyl Ketone	2008/07/04		99	%	60 - 140
		Methyl Ethyl Ketone (2-Butanone)	2008/07/04		100	%	60 - 140
		Methyl t-butyl ether (MTBE)	2008/07/04		99	%	70 - 130
		Styrene	2008/07/04		92	%	70 - 130
		1,1,1,2-Tetrachloroethane	2008/07/04		96	%	70 - 130
		1,1,2,2-Tetrachloroethane	2008/07/04		97	%	70 - 130
		Tetrachloroethylene	2008/07/04		81	%	70 - 130
		Toluene	2008/07/04		93	%	70 - 130
		1,1,1-Trichloroethane	2008/07/04		99	%	70 - 130
		1,1,2-Trichloroethane	2008/07/04		101	%	70 - 130
		Trichloroethylene	2008/07/04		91	%	70 - 130
		Vinyl Chloride	2008/07/04		96	%	70 - 130
		p+m-Xylene	2008/07/04		81	%	70 - 130
		o-Xylene	2008/07/04		88	%	70 - 130
	Spiked Blank	4-Bromofluorobenzene	2008/07/04		99	%	70 - 130
		D4-1,2-Dichloroethane	2008/07/04		102	%	70 - 130
		D8-Toluene	2008/07/04		100	%	70 - 130
		Acetone (2-Propanone)	2008/07/04		99	%	60 - 140
		Benzene	2008/07/04		96	%	70 - 130
		Bromodichloromethane	2008/07/04		97	%	70 - 130
		Bromoform	2008/07/04		108	%	70 - 130
		Bromomethane	2008/07/04		90	%	60 - 140
		Carbon Tetrachloride	2008/07/04		94	%	70 - 130
		Chlorobenzene	2008/07/04		89	%	70 - 130
		Chloroform	2008/07/04		100	%	70 - 130
		Dibromochloromethane	2008/07/04		103	%	70 - 130

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report (Continued)  
Maxxam Job Number: MA869534

QA/QC Batch	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits
1550881 AAD	Spiked Blank	1,2-Dichlorobenzene	2008/07/04		91	%	70 - 130
		1,3-Dichlorobenzene	2008/07/04		88	%	70 - 130
		1,4-Dichlorobenzene	2008/07/04		88	%	70 - 130
		1,1-Dichloroethane	2008/07/04		101	%	70 - 130
		1,2-Dichloroethane	2008/07/04		96	%	70 - 130
		1,1-Dichloroethylene	2008/07/04		95	%	70 - 130
		cis-1,2-Dichloroethylene	2008/07/04		100	%	70 - 130
		trans-1,2-Dichloroethylene	2008/07/04		96	%	70 - 130
		1,2-Dichloropropane	2008/07/04		101	%	70 - 130
		cis-1,3-Dichloropropene	2008/07/04		102	%	70 - 130
		trans-1,3-Dichloropropene	2008/07/04		105	%	70 - 130
		Ethylbenzene	2008/07/04		94	%	70 - 130
		Ethylene Dibromide	2008/07/04		103	%	70 - 130
		Methylene Chloride(Dichloromethane)	2008/07/04		95	%	70 - 130
		Methyl Isobutyl Ketone	2008/07/04		100	%	60 - 140
		Methyl Ethyl Ketone (2-Butanone)	2008/07/04		104	%	60 - 140
		Methyl t-butyl ether (MTBE)	2008/07/04		100	%	70 - 130
		Styrene	2008/07/04		99	%	70 - 130
		1,1,1,2-Tetrachloroethane	2008/07/04		98	%	70 - 130
		1,1,2,2-Tetrachloroethane	2008/07/04		99	%	70 - 130
		Tetrachloroethylene	2008/07/04		78	%	70 - 130
		Toluene	2008/07/04		95	%	70 - 130
		1,1,1-Trichloroethane	2008/07/04		100	%	70 - 130
		1,1,2-Trichloroethane	2008/07/04		102	%	70 - 130
		Trichloroethylene	2008/07/04		91	%	70 - 130
		Vinyl Chloride	2008/07/04		95	%	70 - 130
		p+m-Xylene	2008/07/04		89	%	70 - 130
		o-Xylene	2008/07/04		97	%	70 - 130
	Method Blank	4-Bromofluorobenzene	2008/07/04		90	%	70 - 130
		D4-1,2-Dichloroethane	2008/07/04		104	%	70 - 130
		D8-Toluene	2008/07/04		100	%	70 - 130
		Acetone (2-Propanone)	2008/07/04	<10		ug/L	
		Benzene	2008/07/04	<0.1		ug/L	
		Bromodichloromethane	2008/07/04	<0.1		ug/L	
		Bromoform	2008/07/04	<0.2		ug/L	
		Bromomethane	2008/07/04	<0.5		ug/L	
		Carbon Tetrachloride	2008/07/04	<0.1		ug/L	
		Chlorobenzene	2008/07/04	<0.1		ug/L	
		Chloroform	2008/07/04	<0.1		ug/L	
		Dibromochloromethane	2008/07/04	<0.2		ug/L	
		1,2-Dichlorobenzene	2008/07/04	<0.2		ug/L	
		1,3-Dichlorobenzene	2008/07/04	<0.2		ug/L	
		1,4-Dichlorobenzene	2008/07/04	<0.2		ug/L	
		1,1-Dichloroethane	2008/07/04	<0.1		ug/L	
		1,2-Dichloroethane	2008/07/04	<0.2		ug/L	
		1,1-Dichloroethylene	2008/07/04	<0.1		ug/L	
		cis-1,2-Dichloroethylene	2008/07/04	<0.1		ug/L	
		trans-1,2-Dichloroethylene	2008/07/04	<0.1		ug/L	
		1,2-Dichloropropane	2008/07/04	<0.1		ug/L	
		cis-1,3-Dichloropropene	2008/07/04	<0.2		ug/L	
		trans-1,3-Dichloropropene	2008/07/04	<0.2		ug/L	
		Ethylbenzene	2008/07/04	<0.1		ug/L	
		Ethylene Dibromide	2008/07/04	<0.2		ug/L	
		Methylene Chloride(Dichloromethane)	2008/07/04	<0.5		ug/L	
		Methyl Isobutyl Ketone	2008/07/04	<5		ug/L	

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA869534

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1550881	Method Blank	Methyl Ethyl Ketone (2-Butanone)	2008/07/04	<5		ug/L	
		Methyl t-butyl ether (MTBE)	2008/07/04	<0.2		ug/L	
		Styrene	2008/07/04	<0.2		ug/L	
		1,1,1,2-Tetrachloroethane	2008/07/04	<0.1		ug/L	
		1,1,2,2-Tetrachloroethane	2008/07/04	<0.2		ug/L	
		Tetrachloroethylene	2008/07/04	<0.1		ug/L	
		Toluene	2008/07/04	<0.2		ug/L	
		1,1,1-Trichloroethane	2008/07/04	<0.1		ug/L	
		1,1,2-Trichloroethane	2008/07/04	<0.2		ug/L	
		Trichloroethylene	2008/07/04	<0.1		ug/L	
		Vinyl Chloride	2008/07/04	<0.2		ug/L	
		p+m-Xylene	2008/07/04	<0.1		ug/L	
		o-Xylene	2008/07/04	<0.1		ug/L	
		Xylene (Total)	2008/07/04	<0.1		ug/L	
	RPD [Z58303-08]	Acetone (2-Propanone)	2008/07/04	NC		%	40
		Benzene	2008/07/04	NC		%	40
		Bromodichloromethane	2008/07/04	NC		%	40
		Bromoform	2008/07/04	NC		%	40
		Bromomethane	2008/07/04	NC		%	40
		Carbon Tetrachloride	2008/07/04	NC		%	40
		Chlorobenzene	2008/07/04	NC		%	40
		Chloroform	2008/07/04	NC		%	40
		Dibromochloromethane	2008/07/04	NC		%	40
		1,2-Dichlorobenzene	2008/07/04	NC		%	40
		1,3-Dichlorobenzene	2008/07/04	NC		%	40
		1,4-Dichlorobenzene	2008/07/04	NC		%	40
		1,1-Dichloroethane	2008/07/04	NC		%	40
		1,2-Dichloroethane	2008/07/04	NC		%	40
		1,1-Dichloroethylene	2008/07/04	NC		%	40
		cis-1,2-Dichloroethylene	2008/07/04	NC		%	40
		trans-1,2-Dichloroethylene	2008/07/04	NC		%	40
		1,2-Dichloropropane	2008/07/04	NC		%	40
		cis-1,3-Dichloropropene	2008/07/04	NC		%	40
		trans-1,3-Dichloropropene	2008/07/04	NC		%	40
		Ethylbenzene	2008/07/04	NC		%	40
		Ethylene Dibromide	2008/07/04	NC		%	40
		Methylene Chloride(Dichloromethane)	2008/07/04	NC		%	40
		Methyl Isobutyl Ketone	2008/07/04	NC		%	40
		Methyl Ethyl Ketone (2-Butanone)	2008/07/04	NC		%	40
		Methyl t-butyl ether (MTBE)	2008/07/04	NC		%	40
		Styrene	2008/07/04	NC		%	40
		1,1,1,2-Tetrachloroethane	2008/07/04	NC		%	40
		1,1,2,2-Tetrachloroethane	2008/07/04	NC		%	40
		Tetrachloroethylene	2008/07/04	NC		%	40
		Toluene	2008/07/04	NC		%	40
		1,1,1-Trichloroethane	2008/07/04	NC		%	40
		1,1,2-Trichloroethane	2008/07/04	NC		%	40
		Trichloroethylene	2008/07/04	NC		%	40
		Vinyl Chloride	2008/07/04	NC		%	40
		p+m-Xylene	2008/07/04	NC		%	40
		o-Xylene	2008/07/04	NC		%	40
		Xylene (Total)	2008/07/04	NC		%	40
1551028	MATRIX SPIKE	o-Terphenyl	2008/07/02		100	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2008/07/02		103	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2008/07/02		103	%	60 - 130

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA869534

QA/QC Batch	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits	
Num Init			yyyy/mm/dd					
1551028 JXI	MATRIX SPIKE	F4 (C34-C50 Hydrocarbons)	2008/07/02		103	%	60 - 130	
	Spiked Blank	o-Terphenyl	2008/07/02		95	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2008/07/02		102	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2008/07/02		102	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2008/07/02		102	%	60 - 130	
	Method Blank	o-Terphenyl	2008/07/02		89	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2008/07/02	<100		ug/L		
		F3 (C16-C34 Hydrocarbons)	2008/07/02	<100		ug/L		
		F4 (C34-C50 Hydrocarbons)	2008/07/02	<100		ug/L		
	RPD	F2 (C10-C16 Hydrocarbons)	2008/07/02	5.8		%	50	
		F3 (C16-C34 Hydrocarbons)	2008/07/02	NC		%	50	
		F4 (C34-C50 Hydrocarbons)	2008/07/02	NC		%	50	
	1551112 KTH	QC STANDARD	Turbidity	2008/07/02		102	%	85 - 115
		Method Blank	Turbidity	2008/07/02	<0.1		NTU	
RPD [Z58303-02]		Turbidity	2008/07/02	4.7		%	25	
1551452 JKA	MATRIX SPIKE	o-Terphenyl	2008/07/04		120	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2008/07/04		113	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2008/07/04		113	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2008/07/04		113	%	60 - 130	
	Spiked Blank	o-Terphenyl	2008/07/04		109	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2008/07/04		99	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2008/07/04		99	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2008/07/04		99	%	60 - 130	
	Method Blank	o-Terphenyl	2008/07/03		99	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2008/07/03	<100		ug/L		
		F3 (C16-C34 Hydrocarbons)	2008/07/03	<100		ug/L		
		F4 (C34-C50 Hydrocarbons)	2008/07/03	<100		ug/L		
	RPD	F2 (C10-C16 Hydrocarbons)	2008/07/03	NC		%	50	
		F3 (C16-C34 Hydrocarbons)	2008/07/03	NC		%	50	
	F4 (C34-C50 Hydrocarbons)	2008/07/03	NC		%	50		
1551653 AAI	MATRIX SPIKE	1,4-Difluorobenzene	2008/07/03		99	%	70 - 130	
		4-Bromofluorobenzene	2008/07/03		100	%	70 - 130	
		D10-Ethylbenzene	2008/07/03		109	%	70 - 130	
		D4-1,2-Dichloroethane	2008/07/03		100	%	70 - 130	
		F1 (C6-C10)	2008/07/03		87	%	70 - 130	
	Spiked Blank	1,4-Difluorobenzene	2008/07/04		100	%	70 - 130	
		4-Bromofluorobenzene	2008/07/04		99	%	70 - 130	
		D10-Ethylbenzene	2008/07/04		102	%	70 - 130	
		D4-1,2-Dichloroethane	2008/07/04		97	%	70 - 130	
		F1 (C6-C10)	2008/07/04		103	%	70 - 130	
	Method Blank	1,4-Difluorobenzene	2008/07/03		104	%	70 - 130	
		4-Bromofluorobenzene	2008/07/03		99	%	70 - 130	
		D10-Ethylbenzene	2008/07/03		109	%	70 - 130	
		D4-1,2-Dichloroethane	2008/07/03		99	%	70 - 130	
		F1 (C6-C10)	2008/07/03	<100		ug/L		
		F1 (C6-C10) - BTEX	2008/07/03	<100		ug/L		
	RPD	F1 (C6-C10)	2008/07/03	NC		%	40	
		F1 (C6-C10) - BTEX	2008/07/03	NC		%	40	
1551924 CCI	MATRIX SPIKE	Nitrite (N)	2008/07/04		101	%	75 - 125	
		Nitrate (N)	2008/07/04		96	%	75 - 125	
	Spiked Blank	Nitrite (N)	2008/07/04		100	%	80 - 120	
		Nitrate (N)	2008/07/04		95	%	80 - 120	
	Method Blank	Nitrite (N)	2008/07/04	<0.01		mg/L		
		Nitrate (N)	2008/07/04	<0.1		mg/L		
	RPD	Nitrite (N)	2008/07/04	NC		%	25	

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA869534

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1551924 CCI	RPD	Nitrate (N)	2008/07/04	0.9		%	25
1551943 CCI	MATRIX SPIKE	Nitrite (N)	2008/07/04		102	%	75 - 125
		Nitrate (N)	2008/07/04		100	%	75 - 125
	Spiked Blank	Nitrite (N)	2008/07/04		103	%	80 - 120
		Nitrate (N)	2008/07/04		100	%	80 - 120
	Method Blank	Nitrite (N)	2008/07/04	<0.01		mg/L	
		Nitrate (N)	2008/07/04	<0.1		mg/L	
	RPD	Nitrite (N)	2008/07/04	NC		%	25
		Nitrate (N)	2008/07/04	NC		%	25
1552235 KTH	Spiked Blank	Colour	2008/07/03		99	%	75 - 125
	Method Blank	Colour	2008/07/03	<2		TCU	
	RPD	Colour	2008/07/03	NC		%	25
1552296 KTH	Spiked Blank	Colour	2008/07/03		101	%	75 - 125
	Method Blank	Colour	2008/07/03	<2		TCU	
	RPD [Z58303-02]	Colour	2008/07/03	NC		%	25
1552402 AHA	MATRIX SPIKE	Total Organic Carbon (TOC)	2008/07/04		92	%	75 - 125
	Spiked Blank	Total Organic Carbon (TOC)	2008/07/04		102	%	75 - 125
	Method Blank	Total Organic Carbon (TOC)	2008/07/04	<0.1		mg/L	
	RPD	Total Organic Carbon (TOC)	2008/07/04	6.7		%	20
1552424 ADB	MATRIX SPIKE	Total Ammonia-N	2008/07/07		103	%	80 - 120
	Spiked Blank	Total Ammonia-N	2008/07/07		103	%	80 - 120
	Method Blank	Total Ammonia-N	2008/07/07	<0.05		mg/L	
	RPD	Total Ammonia-N	2008/07/07	NC		%	25
1552720 YPA	QC STANDARD	Conductivity	2008/07/04		101	%	85 - 115
	Method Blank	Conductivity	2008/07/04	<2		umho/cm	
	RPD	Conductivity	2008/07/04	0.3		%	25
1552721 YPA	QC STANDARD	Alkalinity (Total as CaCO3)	2008/07/04		101	%	85 - 115
	Method Blank	Alkalinity (Total as CaCO3)	2008/07/04	<1		mg/L	
	RPD	Alkalinity (Total as CaCO3)	2008/07/04	NC		%	25
1552981 AHA	MATRIX SPIKE	Total Organic Carbon (TOC)	2008/07/04		NC (1)	%	75 - 125
	[Z58303-04] Spiked Blank	Total Organic Carbon (TOC)	2008/07/04		102	%	75 - 125
	Method Blank	Total Organic Carbon (TOC)	2008/07/04	<0.1		mg/L	
	RPD [Z58303-04]	Total Organic Carbon (TOC)	2008/07/04	0.09		%	20
1553085 ADB	MATRIX SPIKE	Total Ammonia-N	2008/07/07		96	%	80 - 120
	Spiked Blank	Total Ammonia-N	2008/07/07		99	%	80 - 120
	Method Blank	Total Ammonia-N	2008/07/07	<0.05		mg/L	
	RPD	Total Ammonia-N	2008/07/07	NC		%	25
1553276 JBW	MATRIX SPIKE	Total Aluminum (Al)	2008/07/07		116	%	80 - 120
	[Z58302-05]	Total Antimony (Sb)	2008/07/07		112	%	80 - 120
		Total Arsenic (As)	2008/07/07		109	%	80 - 120
		Total Barium (Ba)	2008/07/07		108	%	80 - 120
		Total Beryllium (Be)	2008/07/07		107	%	75 - 125
		Total Boron (B)	2008/07/07		112	%	75 - 125
		Total Cadmium (Cd)	2008/07/07		109	%	80 - 120
		Total Calcium (Ca)	2008/07/07		114	%	75 - 125
		Total Chromium (Cr)	2008/07/07		113	%	80 - 120
		Total Cobalt (Co)	2008/07/07		112	%	80 - 120
		Total Copper (Cu)	2008/07/07		111	%	80 - 120
		Total Iron (Fe)	2008/07/07		112	%	80 - 120
		Total Lead (Pb)	2008/07/07		108	%	80 - 120
		Total Magnesium (Mg)	2008/07/07		113	%	80 - 120
		Total Manganese (Mn)	2008/07/07		117	%	80 - 120
		Total Molybdenum (Mo)	2008/07/07		107	%	80 - 120

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA869534

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1553276 JBW	MATRIX SPIKE [Z58302-05]	Total Nickel (Ni)	2008/07/07		112	%	80 - 120
		Total Potassium (K)	2008/07/07		114	%	75 - 125
		Total Selenium (Se)	2008/07/07		113	%	75 - 125
		Total Silicon (Si)	2008/07/07		110	%	75 - 125
		Total Silver (Ag)	2008/07/07		105	%	80 - 120
		Total Sodium (Na)	2008/07/07		114	%	75 - 125
		Total Thallium (Tl)	2008/07/07		107	%	80 - 120
		Total Tungsten (W)	2008/07/07		109	%	75 - 125
		Total Uranium (U)	2008/07/07		109	%	80 - 120
		Total Vanadium (V)	2008/07/07		118	%	80 - 120
		Total Zinc (Zn)	2008/07/07		112	%	80 - 120
		Total Zirconium (Zr)	2008/07/07		107	%	75 - 125
	Spiked Blank	Total Aluminum (Al)	2008/07/07		117	%	80 - 120
		Total Antimony (Sb)	2008/07/07		111	%	82 - 120
		Total Arsenic (As)	2008/07/07		108	%	86 - 119
		Total Barium (Ba)	2008/07/07		101	%	83 - 115
		Total Beryllium (Be)	2008/07/07		108	%	85 - 132
		Total Boron (B)	2008/07/07		114	%	78 - 133
		Total Cadmium (Cd)	2008/07/07		109	%	85 - 116
		Total Calcium (Ca)	2008/07/07		111	%	75 - 125
		Total Chromium (Cr)	2008/07/07		114	%	80 - 120
		Total Cobalt (Co)	2008/07/07		112	%	82 - 117
		Total Copper (Cu)	2008/07/07		110	%	80 - 117
		Total Iron (Fe)	2008/07/07		112	%	80 - 120
		Total Lead (Pb)	2008/07/07		104	%	80 - 120
		Total Magnesium (Mg)	2008/07/07		116	%	80 - 120
		Total Manganese (Mn)	2008/07/07		114	%	80 - 120
		Total Molybdenum (Mo)	2008/07/07		109	%	82 - 117
		Total Nickel (Ni)	2008/07/07		113	%	81 - 117
		Total Potassium (K)	2008/07/07		109	%	75 - 125
		Total Selenium (Se)	2008/07/07		114	%	82 - 118
		Total Silicon (Si)	2008/07/07		109	%	67 - 140
		Total Silver (Ag)	2008/07/07		105	%	80 - 120
Total Sodium (Na)		2008/07/07		114	%	75 - 125	
Total Thallium (Tl)		2008/07/07		103	%	80 - 129	
Total Tungsten (W)		2008/07/07		105	%	81 - 123	
Total Uranium (U)	2008/07/07		106	%	82 - 120		
Total Vanadium (V)	2008/07/07		116	%	82 - 118		
Total Zinc (Zn)	2008/07/07		114	%	80 - 120		
Total Zirconium (Zr)	2008/07/07		110	%	84 - 118		
Method Blank	Total Aluminum (Al)	2008/07/07		5, RDL=5		ug/L	
	Total Antimony (Sb)	2008/07/07		<0.5		ug/L	
	Total Arsenic (As)	2008/07/07		<1		ug/L	
	Total Barium (Ba)	2008/07/07		<5		ug/L	
	Total Beryllium (Be)	2008/07/07		<0.5		ug/L	
	Total Boron (B)	2008/07/07		<10		ug/L	
	Total Cadmium (Cd)	2008/07/07		<0.1		ug/L	
	Total Calcium (Ca)	2008/07/07		<200		ug/L	
	Total Chromium (Cr)	2008/07/07		<5		ug/L	
	Total Cobalt (Co)	2008/07/07		<0.5		ug/L	
	Total Copper (Cu)	2008/07/07		<1		ug/L	
	Total Iron (Fe)	2008/07/07		<100		ug/L	
	Total Lead (Pb)	2008/07/07		<0.5		ug/L	
	Total Magnesium (Mg)	2008/07/07		<50		ug/L	

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA869534

QA/QC Batch	QC Type	Parameter	Date Analyzed	Value	Recovery	Units	QC Limits		
Num Init			yyyy/mm/dd						
1553276	JBW	Method Blank	Total Manganese (Mn)	2008/07/07	<2		ug/L		
			Total Molybdenum (Mo)	2008/07/07	<1		ug/L		
			Total Nickel (Ni)	2008/07/07	<1		ug/L		
			Total Potassium (K)	2008/07/07	<200		ug/L		
			Total Selenium (Se)	2008/07/07	<2		ug/L		
			Total Silicon (Si)	2008/07/07	<50		ug/L		
			Total Silver (Ag)	2008/07/07	<0.1		ug/L		
			Total Sodium (Na)	2008/07/07	<100		ug/L		
			Total Thallium (Tl)	2008/07/07	<0.05		ug/L		
			Total Tungsten (W)	2008/07/07	<1		ug/L		
			Total Uranium (U)	2008/07/07	<0.1		ug/L		
			Total Vanadium (V)	2008/07/07	<1		ug/L		
			Total Zinc (Zn)	2008/07/07	<5		ug/L		
			Total Zirconium (Zr)	2008/07/07	<1		ug/L		
			RPD [Z58302-05]	Total Aluminum (Al)	2008/07/07	NC		%	25
				Total Antimony (Sb)	2008/07/07	NC		%	25
				Total Arsenic (As)	2008/07/07	NC		%	25
				Total Barium (Ba)	2008/07/07	NC		%	25
				Total Beryllium (Be)	2008/07/07	NC		%	25
				Total Boron (B)	2008/07/07	NC		%	25
	Total Cadmium (Cd)	2008/07/07		NC		%	25		
	Total Calcium (Ca)	2008/07/07		1.5		%	25		
	Total Chromium (Cr)	2008/07/07		NC		%	25		
	Total Cobalt (Co)	2008/07/07		NC		%	25		
	Total Copper (Cu)	2008/07/07		NC		%	25		
	Total Iron (Fe)	2008/07/07		NC		%	25		
	Total Lead (Pb)	2008/07/07		NC		%	25		
	Total Magnesium (Mg)	2008/07/07		2.0		%	25		
	Total Manganese (Mn)	2008/07/07		2.7		%	25		
	Total Molybdenum (Mo)	2008/07/07		NC		%	25		
	Total Nickel (Ni)	2008/07/07		NC		%	25		
	Total Potassium (K)	2008/07/07		NC		%	25		
	Total Selenium (Se)	2008/07/07		NC		%	25		
	Total Silicon (Si)	2008/07/07		4.7		%	25		
	Total Silver (Ag)	2008/07/07	NC		%	25			
	Total Sodium (Na)	2008/07/07	2.9		%	25			
	Total Thallium (Tl)	2008/07/07	NC		%	25			
	Total Tungsten (W)	2008/07/07	NC		%	25			
	Total Uranium (U)	2008/07/07	NC		%	25			
	Total Vanadium (V)	2008/07/07	NC		%	25			
Total Zinc (Zn)	2008/07/07	NC		%	25				
Total Zirconium (Zr)	2008/07/07	NC		%	25				
1553283	LHA	MATRIX SPIKE	Total Phosphorus	2008/07/07		96	%	75 - 125	
		QC STANDARD	Total Phosphorus	2008/07/07		100	%	85 - 115	
		Spiked Blank	Total Phosphorus	2008/07/07		99	%	75 - 125	
		Method Blank	Total Phosphorus	2008/07/07	<0.002		mg/L		
1553285	LHA	RPD	Total Phosphorus	2008/07/07	4.4		%	25	
		MATRIX SPIKE	Total Phosphorus	2008/07/07		94	%	75 - 125	
		QC STANDARD	Total Phosphorus	2008/07/07		102	%	85 - 115	
		Spiked Blank	Total Phosphorus	2008/07/07		101	%	75 - 125	
1553292	LHA	Method Blank	Total Phosphorus	2008/07/07	<0.002		mg/L		
		RPD	Total Phosphorus	2008/07/07	9.3		%	25	
		MATRIX SPIKE	Total Phosphorus	2008/07/07		97	%	75 - 125	
		QC STANDARD	Total Phosphorus	2008/07/07		99	%	85 - 115	
		Spiked Blank	Total Phosphorus	2008/07/07		102	%	75 - 125	

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA869534

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1553292 LHA	Method Blank	Total Phosphorus	2008/07/07	<0.002		mg/L	
	RPD	Total Phosphorus	2008/07/07	NC		%	25
1553402 JOH	MATRIX SPIKE [Z58304-02]	Dissolved Calcium (Ca)	2008/07/07		NC (1)	%	85 - 115
		Dissolved Magnesium (Mg)	2008/07/07		101	%	85 - 115
		Dissolved Potassium (K)	2008/07/07		99	%	85 - 115
		Dissolved Sodium (Na)	2008/07/07		114	%	85 - 115
	Spiked Blank	Dissolved Calcium (Ca)	2008/07/07		101	%	85 - 115
		Dissolved Magnesium (Mg)	2008/07/07		98	%	85 - 115
		Dissolved Potassium (K)	2008/07/07		95	%	85 - 115
		Dissolved Sodium (Na)	2008/07/07		99	%	85 - 115
	Method Blank	Dissolved Calcium (Ca)	2008/07/07	<0.05		mg/L	
		Dissolved Magnesium (Mg)	2008/07/07	<0.05		mg/L	
		Dissolved Potassium (K)	2008/07/07	<1		mg/L	
		Dissolved Sodium (Na)	2008/07/07	<0.5		mg/L	
	RPD [Z58304-02]	Dissolved Calcium (Ca)	2008/07/07	0.1		%	25
		Dissolved Magnesium (Mg)	2008/07/07	0.4		%	25
		Dissolved Potassium (K)	2008/07/07	NC		%	25
		Dissolved Sodium (Na)	2008/07/07	NC		%	25
1553562 DRM	MATRIX SPIKE [Z58302-02]	Dissolved Chloride (Cl)	2008/07/07		103	%	75 - 125
	Spiked Blank	Dissolved Chloride (Cl)	2008/07/07		101	%	80 - 120
	Method Blank	Dissolved Chloride (Cl)	2008/07/07	<1		mg/L	
	RPD [Z58302-02]	Dissolved Chloride (Cl)	2008/07/07	NC		%	20
1553575 DRM	MATRIX SPIKE [Z58302-02]	Orthophosphate (P)	2008/07/07		101	%	75 - 125
	Spiked Blank	Orthophosphate (P)	2008/07/07		102	%	80 - 120
	Method Blank	Orthophosphate (P)	2008/07/07	<0.01		mg/L	
	RPD [Z58302-02]	Orthophosphate (P)	2008/07/07	NC		%	25
1553576 DRM	MATRIX SPIKE [Z58302-02]	Dissolved Sulphate (SO4)	2008/07/07		116	%	75 - 125
	Spiked Blank	Dissolved Sulphate (SO4)	2008/07/07		104	%	80 - 120
	Method Blank	Dissolved Sulphate (SO4)	2008/07/07	<1		mg/L	
	RPD [Z58302-02]	Dissolved Sulphate (SO4)	2008/07/07	NC		%	25
1554124 HRE	MATRIX SPIKE	Total Aluminum (Al)	2008/07/07		96	%	80 - 120
		Total Antimony (Sb)	2008/07/07		112	%	80 - 120
		Total Arsenic (As)	2008/07/07		94	%	80 - 120
		Total Barium (Ba)	2008/07/07		97	%	80 - 120
		Total Beryllium (Be)	2008/07/07		100	%	75 - 125
		Total Boron (B)	2008/07/07		101	%	75 - 125
		Total Cadmium (Cd)	2008/07/07		103	%	80 - 120
		Total Calcium (Ca)	2008/07/07		NC (1)	%	75 - 125
		Total Chromium (Cr)	2008/07/07		99	%	80 - 120
		Total Cobalt (Co)	2008/07/07		95	%	80 - 120
		Total Copper (Cu)	2008/07/07		92	%	80 - 120
		Total Iron (Fe)	2008/07/07		94	%	80 - 120
		Total Lead (Pb)	2008/07/07		100	%	80 - 120
		Total Magnesium (Mg)	2008/07/07		NC (1)	%	80 - 120
		Total Manganese (Mn)	2008/07/07		96	%	80 - 120
		Total Molybdenum (Mo)	2008/07/07		107	%	80 - 120
		Total Nickel (Ni)	2008/07/07		94	%	80 - 120
		Total Potassium (K)	2008/07/07		97	%	75 - 125
		Total Selenium (Se)	2008/07/07		102	%	75 - 125
		Total Silicon (Si)	2008/07/07		88	%	75 - 125
		Total Silver (Ag)	2008/07/07		100	%	80 - 120



Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA869534

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1554124 HRE	MATRIX SPIKE	Total Sodium (Na)	2008/07/07		NC (1)	%	75 - 125
		Total Thallium (Tl)	2008/07/07		102	%	80 - 120
		Total Tungsten (W)	2008/07/07		106	%	75 - 125
		Total Uranium (U)	2008/07/07		109	%	80 - 120
		Total Vanadium (V)	2008/07/07		101	%	80 - 120
		Total Zinc (Zn)	2008/07/07		97	%	80 - 120
		Total Zirconium (Zr)	2008/07/07		110	%	75 - 125
	Spiked Blank	Total Aluminum (Al)	2008/07/08		113	%	80 - 120
		Total Antimony (Sb)	2008/07/08		111	%	82 - 120
		Total Arsenic (As)	2008/07/08		115	%	86 - 119
		Total Barium (Ba)	2008/07/08		112	%	83 - 115
		Total Beryllium (Be)	2008/07/08		111	%	85 - 132
		Total Boron (B)	2008/07/08		112	%	78 - 133
		Total Cadmium (Cd)	2008/07/08		116	%	85 - 116
		Total Calcium (Ca)	2008/07/08		109	%	75 - 125
		Total Chromium (Cr)	2008/07/08		112	%	80 - 120
		Total Cobalt (Co)	2008/07/08		109	%	82 - 117
		Total Copper (Cu)	2008/07/08		110	%	80 - 117
		Total Iron (Fe)	2008/07/08		114	%	80 - 120
		Total Lead (Pb)	2008/07/08		107	%	80 - 120
		Total Magnesium (Mg)	2008/07/08		114	%	80 - 120
		Total Manganese (Mn)	2008/07/08		111	%	80 - 120
		Total Molybdenum (Mo)	2008/07/08		110	%	82 - 117
		Total Nickel (Ni)	2008/07/08		111	%	81 - 117
		Total Potassium (K)	2008/07/08		109	%	75 - 125
		Total Selenium (Se)	2008/07/08		114	%	82 - 118
		Total Silicon (Si)	2008/07/08		102	%	67 - 140
		Total Silver (Ag)	2008/07/08		111	%	80 - 120
		Total Sodium (Na)	2008/07/08		106	%	75 - 125
		Total Thallium (Tl)	2008/07/08		108	%	80 - 129
		Total Tungsten (W)	2008/07/08		105	%	81 - 123
		Total Uranium (U)	2008/07/08		108	%	82 - 120
		Total Vanadium (V)	2008/07/08		113	%	82 - 118
		Total Zinc (Zn)	2008/07/08		113	%	80 - 120
		Total Zirconium (Zr)	2008/07/08		110	%	84 - 118
	Method Blank	Total Aluminum (Al)	2008/07/07	9, RDL=5		ug/L	
		Total Antimony (Sb)	2008/07/07	<0.5		ug/L	
		Total Arsenic (As)	2008/07/07	<1		ug/L	
		Total Barium (Ba)	2008/07/07	<5		ug/L	
		Total Beryllium (Be)	2008/07/07	<0.5		ug/L	
		Total Boron (B)	2008/07/07	<10		ug/L	
		Total Cadmium (Cd)	2008/07/07	<0.1		ug/L	
		Total Calcium (Ca)	2008/07/07	<200		ug/L	
		Total Chromium (Cr)	2008/07/07	<5		ug/L	
		Total Cobalt (Co)	2008/07/07	<0.5		ug/L	
		Total Copper (Cu)	2008/07/07	<1		ug/L	
		Total Iron (Fe)	2008/07/07	<100		ug/L	
		Total Lead (Pb)	2008/07/07	<0.5		ug/L	
		Total Magnesium (Mg)	2008/07/07	<50		ug/L	
		Total Manganese (Mn)	2008/07/07	<2		ug/L	
		Total Molybdenum (Mo)	2008/07/07	1, RDL=1		ug/L	
		Total Nickel (Ni)	2008/07/07	<1		ug/L	
		Total Potassium (K)	2008/07/07	<200		ug/L	
		Total Selenium (Se)	2008/07/07	<2		ug/L	
		Total Silicon (Si)	2008/07/07	<50		ug/L	

Trow Associates Inc  
Attention: Chris Perusse  
Client Project #: F-08106  
P.O. #:  
Project name: LANSLOWNE HOUSE

Quality Assurance Report (Continued)

Maxxam Job Number: MA869534

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1554124 HRE	Method Blank	Total Silver (Ag)	2008/07/07	<0.1		ug/L	
		Total Sodium (Na)	2008/07/07	<100		ug/L	
		Total Thallium (Tl)	2008/07/07	0.05, RDL=0.05		ug/L	
		Total Tungsten (W)	2008/07/07	<1		ug/L	
		Total Uranium (U)	2008/07/07	<0.1		ug/L	
		Total Vanadium (V)	2008/07/07	<1		ug/L	
		Total Zinc (Zn)	2008/07/07	<5		ug/L	
		Total Zirconium (Zr)	2008/07/07	<1		ug/L	
	RPD	Total Calcium (Ca)	2008/07/07	8.4		%	25
		Total Cobalt (Co)	2008/07/07	NC		%	25
		Total Molybdenum (Mo)	2008/07/07	9.8		%	25
		Total Potassium (K)	2008/07/07	8.2		%	25
1554373 SUK	MATRIX SPIKE [Z58310-06]	Mercury (Hg)	2008/07/07		105	%	75 - 125
		Spiked Blank	2008/07/07		106	%	84 - 113
	Method Blank	Mercury (Hg)	2008/07/07	<0.1		ug/L	
	RPD [Z58310-06]	Mercury (Hg)	2008/07/07	NC		%	25

NC = Non-calculable

RPD = Relative Percent Difference

QC Standard = Quality Control Standard

PIKE = Fortified sample

1) The recovery in the matrix spike was not calculated (NC). Because of the high concentration of this analyte in the parent sample, the relative difference between the spiked and unspiked concentrations is not sufficiently significant to permit a reliable recovery calculation.

**Validation Signature Page**

**Maxxam Job #: A869534**

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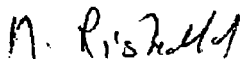
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



\_\_\_\_\_  
MAMDOUH SALIB, Analyst, Hydrocarbons


\_\_\_\_\_  
TROY CARRIERE, B.Sc., C.Chem, Scientific Specialist



\_\_\_\_\_  
MEDHAT RISKALLAH, Manager, Hydrocarbon Department

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Your Project #: F-08106  
Site: LANSDOWNE HOUSE  
Your C.O.C. #: 84634-01

**Attention: Chris Perusse**

Trow Associates Inc  
Thunder Bay Branch  
1142 Roland St  
Thunder Bay, ON  
P7B 5M4

Report Date: 2008/07/08

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: A869534**

**Received: 2008/06/28, 10:13**

Sample Matrix: Water  
# Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Alkalinity	9	N/A	2008/07/04	CAM SOP-00448	SM 2320B
Carbonate, Bicarbonate and Hydroxide	9	N/A	2008/07/05		
Chloride by Automated Colourimetry	9	N/A	2008/07/07	CAM SOP-00463	SM 4500 Cl E
Colour	9	N/A	2008/07/03	CAM SOP-00412	APHA 2120
Conductivity	9	N/A	2008/07/04	CAM SOP-00448	SM 2510
Petroleum Hydro. CCME F1 & BTEX in Water	9	N/A	2008/07/03	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	9	2008/07/02	2008/07/03	CAM SOP-00316	CCME Hydrocarbons
Hardness (calculated as CaCO3)	9	N/A	2008/07/07	CAM SOP 0102	SM 2340 B
Mercury	9	2008/07/07	2008/07/07	CAM SOP-00453	EPA 7470
Lab Filtered Metals Analysis by ICP	9	2008/07/04	2008/07/07	CAM SOP-00408	EPA 6010
Total Metals Analysis by ICPMS	9	N/A	2008/07/07	CAM SOP-00447	EPA 6020
Ammonia-N	9	N/A	2008/07/07	CAM SOP-00441	US GS I-2522-90
Nitrate (NO3) and Nitrite (NO2) in Water @	9	N/A	2008/07/04	CAM SOP-00440	SM 4500 NO3 I
pH	9	N/A	2008/07/04	CAM SOP-00448	SM 4500H
Orthophosphate	9	N/A	2008/07/07	CAM SOP-00461	SM 4500 P-F
Sat. pH and Langelier Index (@ 20C)	9	N/A	2008/07/07		
Sat. pH and Langelier Index (@ 4C)	9	N/A	2008/07/07		
Sulphate by Automated Colourimetry	9	N/A	2008/07/07	CAM SOP-00464	EPA 375.4
Total Dissolved Solids (TDS calc)	9	N/A	2008/07/07		
Total Organic Carbon (TOC)	9	N/A	2008/07/04	CAM SOP-00446	EPA 415.1 modified
Total Phosphorus (Colourimetric)	9	2008/07/04	2008/07/07	CAM SOP-00407	APHA 4500 P,B,F
Low Level Total Suspended Solids	9	N/A	2008/07/02	CAM SOP-00428	SM 2540D
Turbidity	9	N/A	2008/07/02	CAM SOP-00417	APHA 2130
Volatile Organic Compounds in Water	9	N/A	2008/07/04	CAM SOP-00226	EPA 8260 modified

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

\* Results relate only to the items tested.

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

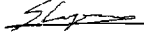
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Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNNE HOUSE

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Encryption Key



Sam Lyons

08 Jul 2008 17:04:32 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

SAMANTHA LYONS, Project Manager  
Email: [samantha.lyons@maxxamanalytics.com](mailto:samantha.lyons@maxxamanalytics.com)  
Phone# (905) 817-5700 Ext:5797

=====  
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

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**OREG 153 PETROLEUM HYDROCARBONS (WATER)**

Maxxam ID		Z58302		Z58303	Z58304	Z58305	Z58306		Z58307	Z58308	Z58309		
		2008/06/25		2008/06/25	2008/06/25	2008/06/25	2008/06/25		2008/06/25	2008/06/25	2008/06/25		
	Units	BG308	QC Batch	BG208	DS708	DS608	DS308	QC Batch	DS208	DS108	BG108	RDL	QC Batch
<b>BTEX &amp; F1 Hydrocarbons</b>													
F1 (C6-C10)	ug/L	<100	1551653	<100	<100	<100	<100	1551653	<100	<100	<100	100	1551653
F1 (C6-C10) - BTEX	ug/L	<100	1551653	<100	<100	<100	<100	1551653	<100	<100	<100	100	1551653
<b>F2-F4 Hydrocarbons</b>													
F2 (C10-C16 Hydrocarbons)	ug/L	<100	1551452	<100	<100	<100	<100	1551028	<100	<100	<100	100	1551452
F3 (C16-C34 Hydrocarbons)	ug/L	<100	1551452	<100	<100	<100	<100	1551028	<100	<100	<100	100	1551452
F4 (C34-C50 Hydrocarbons)	ug/L	<100	1551452	<100	<100	<100	<100	1551028	<100	<100	<100	100	1551452
Reached Baseline at C50	ug/L	YES	1551452	YES	YES	YES	YES	1551028	YES	YES	YES		1551452
<b>Surrogate Recovery ( % )</b>													
1,4-Difluorobenzene	%	104	1551653	104	103	104	104	1551653	105	102	102		1551653
4-Bromofluorobenzene	%	100	1551653	100	99	100	100	1551653	99	98	99		1551653
D10-Ethylbenzene	%	112	1551653	109	113	111	110	1551653	112	109	109		1551653
D4-1,2-Dichloroethane	%	101	1551653	101	99	99	100	1551653	100	101	100		1551653
o-Terphenyl	%	110	1551452	92	88	86	83	1551028	107	93	96		1551452

Maxxam ID		Z58310			
		2008/06/25			
	Units	DS408		RDL	QC Batch
<b>BTEX &amp; F1 Hydrocarbons</b>					
F1 (C6-C10)	ug/L	<100		100	1551653
F1 (C6-C10) - BTEX	ug/L	<100		100	1551653
<b>F2-F4 Hydrocarbons</b>					
F2 (C10-C16 Hydrocarbons)	ug/L	<100		100	1551452
F3 (C16-C34 Hydrocarbons)	ug/L	<100		100	1551452
F4 (C34-C50 Hydrocarbons)	ug/L	<100		100	1551452
Reached Baseline at C50	ug/L	YES			1551452
<b>Surrogate Recovery ( % )</b>					
1,4-Difluorobenzene	%	103			1551653
4-Bromofluorobenzene	%	98			1551653
D10-Ethylbenzene	%	109			1551653
D4-1,2-Dichloroethane	%	99			1551653
o-Terphenyl	%	106			1551452

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

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Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		Z58302	Z58302		Z58303	Z58303		Z58304	Z58304		
		2008/06/25	2008/06/25		2008/06/25	2008/06/25		2008/06/25	2008/06/25		
	Units	BG308	BG308 Lab-Dup	QC Batch	BG208	BG208 Lab-Dup	QC Batch	DS708	DS708 Lab-Dup	RDL	QC Batch
<b>Calculated Parameters</b>											
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	37		1550331	60		1550331	65		1	1550331
Calculated TDS	mg/L	38		1550338	59		1550338	66		1	1550338
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1		1550331	<1		1550331	<1		1	1550331
Hardness (CaCO3)	mg/L	39		1550333	61		1550333	68		1	1550333
Langelier Index (@ 20C)	N/A	-0.854		1550336	-0.250		1550336	-0.143			1550336
Langelier Index (@ 4C)	N/A	-1.11		1550337	-0.502		1550337	-0.395			1550337
Saturation pH (@ 20C)	N/A	8.66		1550336	8.27		1550336	8.18			1550336
Saturation pH (@ 4C)	N/A	8.91		1550337	8.52		1550337	8.43			1550337
<b>Inorganics</b>											
Total Ammonia-N	mg/L	0.07		1552424	<0.05		1553085	0.10		0.05	1552424
Conductivity	umho/cm	74		1552720	116		1552720	127		2	1552720
Total Organic Carbon (TOC)	mg/L	12.2		1552402	6.4	6.4	1552981	11.5		0.1	1552981
Orthophosphate (P)	mg/L	<0.01	<0.01	1553575	<0.01		1553575	<0.01		0.01	1553575
pH	pH	7.8		1552718	8.0		1552718	8.0			1552718
Total Phosphorus	mg/L	0.026		1553283	0.024		1553292	0.072		0.002	1553285
Dissolved Sulphate (SO4)	mg/L	<1	<1	1553576	<1		1553576	<1		1	1553576
Turbidity	NTU	1.3		1551112	0.6	0.7	1551112	1.2		0.1	1551112
Alkalinity (Total as CaCO3)	mg/L	38		1552721	61		1552721	66		1	1552721
Dissolved Chloride (Cl)	mg/L	<1	<1	1553562	<1		1553562	1		1	1553562
Nitrite (N)	mg/L	<0.01		1551924	<0.01		1551924	<0.01		0.01	1551943
Nitrate (N)	mg/L	<0.1		1551924	<0.1		1551924	<0.1		0.1	1551943

N/A = Not Applicable  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

RCAP - SURFACE WATER (WATER)

Maxxam ID		Z58302	Z58302		Z58303	Z58303		Z58304	Z58304		
		2008/06/25	2008/06/25		2008/06/25	2008/06/25		2008/06/25	2008/06/25		
	Units	BG308	BG308 Lab-Dup	QC Batch	BG208	BG208 Lab-Dup	QC Batch	DS708	DS708 Lab-Dup	RDL	QC Batch
<b>Metals</b>											
Dissolved Calcium (Ca)	mg/L	11.6		1553402	18.5		1553402	20.9	20.9	0.05	1553402
Dissolved Magnesium (Mg)	mg/L	2.50		1553402	3.55		1553402	3.92	3.90	0.05	1553402
Dissolved Potassium (K)	mg/L	<1		1553402	<1		1553402	<1	<1	1	1553402
Dissolved Sodium (Na)	mg/L	0.5		1553402	0.6		1553402	0.6	0.5	0.5	1553402
Total Aluminum (Al)	ug/L	25	24	1553276	12		1554124	20		5	1554124
Total Antimony (Sb)	ug/L	<0.5	<0.5	1553276	<0.5		1554124	<0.5		0.5	1554124
Total Arsenic (As)	ug/L	<1	<1	1553276	<1		1554124	<1		1	1554124
Total Barium (Ba)	ug/L	7	7	1553276	10		1554124	10		5	1554124
Total Beryllium (Be)	ug/L	<0.5	<0.5	1553276	<0.5		1554124	<0.5		0.5	1554124
Total Boron (B)	ug/L	<10	<10	1553276	<10		1554124	<10		10	1554124
Total Cadmium (Cd)	ug/L	<0.1	<0.1	1553276	<0.1		1554124	<0.1		0.1	1554124
Total Calcium (Ca)	ug/L	12000	12000	1553276	18000		1554124	19000		200	1554124
Total Chromium (Cr)	ug/L	<5	<5	1553276	23		1554124	<5		5	1554124
Total Cobalt (Co)	ug/L	<0.5	<0.5	1553276	<0.5		1554124	<0.5		0.5	1554124
Total Copper (Cu)	ug/L	<1	<1	1553276	<1		1554124	<1		1	1554124
Total Iron (Fe)	ug/L	210	210	1553276	<100		1554124	<100		100	1554124
Total Lead (Pb)	ug/L	<0.5	<0.5	1553276	<0.5		1554124	<0.5		0.5	1554124
Total Magnesium (Mg)	ug/L	2800	2900	1553276	3600		1554124	3800		50	1554124
Total Manganese (Mn)	ug/L	15	15	1553276	10		1554124	12		2	1554124
Total Molybdenum (Mo)	ug/L	<1	<1	1553276	<1		1554124	<1		1	1554124
Total Nickel (Ni)	ug/L	<1	<1	1553276	<1		1554124	<1		1	1554124
Total Potassium (K)	ug/L	740	730	1553276	370		1554124	820		200	1554124
Total Selenium (Se)	ug/L	<2	<2	1553276	<2		1554124	<2		2	1554124
Total Silicon (Si)	ug/L	290	270	1553276	1200		1554124	590		50	1554124
Total Silver (Ag)	ug/L	<0.1	<0.1	1553276	<0.1		1554124	<0.1		0.1	1554124
Total Sodium (Na)	ug/L	590	570	1553276	680		1554124	610		100	1554124
Total Thallium (Tl)	ug/L	<0.05	<0.05	1553276	<0.05		1554124	<0.05		0.05	1554124
Total Tungsten (W)	ug/L	<1	<1	1553276	<1		1554124	<1		1	1554124
Total Uranium (U)	ug/L	<0.1	<0.1	1553276	<0.1		1554124	<0.1		0.1	1554124
Total Vanadium (V)	ug/L	<1	<1	1553276	<1		1554124	<1		1	1554124
Total Zinc (Zn)	ug/L	<5	<5	1553276	<5		1554124	<5		5	1554124
Total Zirconium (Zr)	ug/L	<1	<1	1553276	<1		1554124	<1		1	1554124

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch



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Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

RCAP - SURFACE WATER (WATER)

Maxxam ID		Z58305		Z58306		Z58307		Z58308		Z58309			
	Units	2008/06/25	QC Batch	2008/06/25	QC Batch	2008/06/25	QC Batch	2008/06/25	QC Batch	2008/06/25	QC Batch	QC Batch	
<b>Calculated Parameters</b>													
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	73	1550331	15	1550331	40	1550331	31	1	1550331	37	1	1550331
Calculated TDS	mg/L	77	1550338	18	1550338	43	1550338	35	1	1550338	38	1	1550338
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1	1550331	<1	1550331	<1	1550331	<1	1	1550331	<1	1	1550331
Hardness (CaCO <sub>3</sub> )	mg/L	76	1550333	20	1550333	45	1550333	35	1	1550333	39	1	1550333
Langelier Index (@ 20C)	N/A	-0.0160	1550336	-1.92	1550336	-0.759	1550336	-1.10		1550336	-0.874		1550336
Langelier Index (@ 4C)	N/A	-0.267	1550337	-2.17	1550337	-1.01	1550337	-1.35		1550337	-1.13		1550337
Saturation pH (@ 20C)	N/A	8.10	1550336	9.31	1550336	8.56	1550336	8.78		1550336	8.67		1550336
Saturation pH (@ 4C)	N/A	8.35	1550337	9.56	1550337	8.82	1550337	9.03		1550337	8.92		1550337
<b>Inorganics</b>													
Total Ammonia-N	mg/L	0.09	1552424	0.13	1553085	0.05	1552424	0.10	0.05	1552424	0.06	0.05	1553085
Conductivity	umho/cm	143	1552720	36	1552720	82	1552720	64	2	1552720	74	2	1552720
Total Organic Carbon (TOC)	mg/L	10.5	1552402	12.3	1552981	11.5	1552402	12.0	0.1	1552402	12.2	0.1	1552981
Orthophosphate (P)	mg/L	<0.01	1553575	<0.01	1553575	<0.01	1553575	0.01	0.01	1553575	<0.01	0.01	1553575
pH	pH	8.1	1552718	7.4	1552718	7.8	1552718	7.7		1552718	7.8		1552718
Total Phosphorus	mg/L	0.033	1553292	0.032	1553285	0.031	1553285	0.059	0.002	1553285	0.025	0.004	1553285
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<1	1553576	<1	1553576	<1	1553576	<1	1	1553576	<1	1	1553576
Turbidity	NTU	1.2	1551112	1.2	1551112	1.3	1551112	1.2	0.1	1551112	1.5	0.1	1551112
Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	74	1552721	15	1552721	41	1552721	31	1	1552721	37	1	1552721
Dissolved Chloride (Cl)	mg/L	1	1553562	1	1553562	1	1553562	1	1	1553562	1	1	1553562
Nitrite (N)	mg/L	<0.01	1551924	<0.01	1551924	<0.01	1551924	<0.01	0.01	1551943	<0.01	0.01	1551943
Nitrate (N)	mg/L	<0.1	1551924	<0.1	1551924	<0.1	1551924	<0.1	0.1	1551943	<0.1	0.1	1551943

N/A = Not Applicable

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Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		Z58305		Z58306		Z58307		Z58308		Z58309			
		2008/06/25		2008/06/25		2008/06/25		2008/06/25		2008/06/25			
	Units	DS608	QC Batch	DS308	QC Batch	DS208	QC Batch	DS108	RDL	QC Batch	BG108	RDL	QC Batch
<b>Metals</b>													
Dissolved Calcium (Ca)	mg/L	23.0	1553402	6.19	1553402	13.5	1553402	10.6	0.05	1553402	11.6	0.05	1553402
Dissolved Magnesium (Mg)	mg/L	4.38	1553402	1.16	1553402	2.71	1553402	2.13	0.05	1553402	2.48	0.05	1553402
Dissolved Potassium (K)	mg/L	<1	1553402	<1	1553402	<1	1553402	<1	1	1553402	<1	1	1553402
Dissolved Sodium (Na)	mg/L	0.7	1553402	<0.5	1553402	0.6	1553402	<0.5	0.5	1553402	0.5	0.5	1553402
Total Aluminum (Al)	ug/L	33	1553276	67	1554124	43	1554124	58	5	1553276	20	5	1554124
Total Antimony (Sb)	ug/L	<0.5	1553276	<0.5	1554124	<0.5	1554124	<0.5	0.5	1553276	<0.5	0.5	1554124
Total Arsenic (As)	ug/L	2	1553276	2	1554124	1	1554124	2	1	1553276	<1	1	1554124
Total Barium (Ba)	ug/L	10	1553276	<5	1554124	6	1554124	5	5	1553276	6	5	1554124
Total Beryllium (Be)	ug/L	<0.5	1553276	<0.5	1554124	<0.5	1554124	<0.5	0.5	1553276	<0.5	0.5	1554124
Total Boron (B)	ug/L	<10	1553276	<10	1554124	<10	1554124	<10	10	1553276	<10	10	1554124
Total Cadmium (Cd)	ug/L	<0.1	1553276	<0.1	1554124	<0.1	1554124	<0.1	0.1	1553276	<0.1	0.1	1554124
Total Calcium (Ca)	ug/L	25000	1553276	5500	1554124	12000	1554124	11000	200	1553276	11000	200	1554124
Total Chromium (Cr)	ug/L	<5	1553276	<5	1554124	<5	1554124	<5	5	1553276	<5	5	1554124
Total Cobalt (Co)	ug/L	<0.5	1553276	<0.5	1554124	<0.5	1554124	<0.5	0.5	1553276	<0.5	0.5	1554124
Total Copper (Cu)	ug/L	<1	1553276	<1	1554124	1	1554124	1	1	1553276	<1	1	1554124
Total Iron (Fe)	ug/L	100	1553276	110	1554124	<100	1554124	110	100	1553276	170	100	1554124
Total Lead (Pb)	ug/L	<0.5	1553276	<0.5	1554124	<0.5	1554124	0.9	0.5	1553276	<0.5	0.5	1554124
Total Magnesium (Mg)	ug/L	5100	1553276	1100	1554124	2500	1554124	2300	50	1553276	2500	50	1554124
Total Manganese (Mn)	ug/L	25	1553276	5	1554124	4	1554124	13	2	1553276	13	2	1554124
Total Molybdenum (Mo)	ug/L	<1	1553276	<1	1554124	<1	1554124	<1	1	1553276	<1	1	1554124
Total Nickel (Ni)	ug/L	<1	1553276	<1	1554124	<1	1554124	2	1	1553276	<1	1	1554124
Total Potassium (K)	ug/L	1200	1553276	220	1554124	590	1554124	450	200	1553276	620	200	1554124
Total Selenium (Se)	ug/L	<2	1553276	<2	1554124	<2	1554124	<2	2	1553276	<2	2	1554124
Total Silicon (Si)	ug/L	1400	1553276	280	1554124	1500	1554124	1200	50	1553276	230	50	1554124
Total Silver (Ag)	ug/L	<0.1	1553276	<0.1	1554124	<0.1	1554124	<0.1	0.1	1553276	<0.1	0.1	1554124
Total Sodium (Na)	ug/L	890	1553276	300	1554124	540	1554124	590	100	1553276	480	100	1554124
Total Thallium (Tl)	ug/L	<0.05	1553276	<0.05	1554124	<0.05	1554124	<0.05	0.05	1553276	<0.05	0.05	1554124
Total Tungsten (W)	ug/L	<1	1553276	<1	1554124	<1	1554124	<1	1	1553276	<1	1	1554124
Total Uranium (U)	ug/L	<0.1	1553276	<0.1	1554124	<0.1	1554124	<0.1	0.1	1553276	<0.1	0.1	1554124
Total Vanadium (V)	ug/L	<1	1553276	<1	1554124	<1	1554124	<1	1	1553276	<1	1	1554124
Total Zinc (Zn)	ug/L	11	1553276	<5	1554124	<5	1554124	7	5	1553276	<5	5	1554124
Total Zirconium (Zr)	ug/L	<1	1553276	<1	1554124	<1	1554124	<1	1	1553276	<1	1	1554124

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**RCAP - SURFACE WATER (WATER)**

Maxxam ID		Z58310		
		2008/06/25		
	Units	DS408	RDL	QC Batch
<b>Calculated Parameters</b>				
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	23	1	1550331
Calculated TDS	mg/L	23	1	1550338
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	1	1550331
Hardness (CaCO3)	mg/L	25	1	1550333
Langelier Index (@ 20C)	N/A	-1.47		1550336
Langelier Index (@ 4C)	N/A	-1.72		1550337
Saturation pH (@ 20C)	N/A	9.04		1550336
Saturation pH (@ 4C)	N/A	9.29		1550337
<b>Inorganics</b>				
Total Ammonia-N	mg/L	0.11	0.05	1552424
Conductivity	umho/cm	47	2	1552720
Total Organic Carbon (TOC)	mg/L	12.6	0.1	1552402
Orthophosphate (P)	mg/L	<0.01	0.01	1553575
pH	pH	7.6		1552718
Total Phosphorus	mg/L	0.045	0.002	1553283
Dissolved Sulphate (SO4)	mg/L	<1	1	1553576
Turbidity	NTU	1.4	0.1	1551112
Alkalinity (Total as CaCO3)	mg/L	23	1	1552721
Dissolved Chloride (Cl)	mg/L	<1	1	1553562
Nitrite (N)	mg/L	<0.01	0.01	1551924
Nitrate (N)	mg/L	<0.1	0.1	1551924

N/A = Not Applicable  
RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

RCAP - SURFACE WATER (WATER)

Maxxam ID		Z58310		
		2008/06/25		
	Units	DS408	RDL	QC Batch
<b>Metals</b>				
Dissolved Calcium (Ca)	mg/L	7.53	0.05	1553402
Dissolved Magnesium (Mg)	mg/L	1.48	0.05	1553402
Dissolved Potassium (K)	mg/L	<1	1	1553402
Dissolved Sodium (Na)	mg/L	<0.5	0.5	1553402
Total Aluminum (Al)	ug/L	56	5	1554124
Total Antimony (Sb)	ug/L	<0.5	0.5	1554124
Total Arsenic (As)	ug/L	2	1	1554124
Total Barium (Ba)	ug/L	<5	5	1554124
Total Beryllium (Be)	ug/L	<0.5	0.5	1554124
Total Boron (B)	ug/L	<10	10	1554124
Total Cadmium (Cd)	ug/L	<0.1	0.1	1554124
Total Calcium (Ca)	ug/L	7000	200	1554124
Total Chromium (Cr)	ug/L	<5	5	1554124
Total Cobalt (Co)	ug/L	<0.5	0.5	1554124
Total Copper (Cu)	ug/L	<1	1	1554124
Total Iron (Fe)	ug/L	<100	100	1554124
Total Lead (Pb)	ug/L	<0.5	0.5	1554124
Total Magnesium (Mg)	ug/L	1500	50	1554124
Total Manganese (Mn)	ug/L	6	2	1554124
Total Molybdenum (Mo)	ug/L	<1	1	1554124
Total Nickel (Ni)	ug/L	<1	1	1554124
Total Potassium (K)	ug/L	400	200	1554124
Total Selenium (Se)	ug/L	<2	2	1554124
Total Silicon (Si)	ug/L	79	50	1554124
Total Silver (Ag)	ug/L	<0.1	0.1	1554124
Total Sodium (Na)	ug/L	390	100	1554124
Total Thallium (Tl)	ug/L	<0.05	0.05	1554124
Total Tungsten (W)	ug/L	<1	1	1554124
Total Uranium (U)	ug/L	<0.1	0.1	1554124
Total Vanadium (V)	ug/L	<1	1	1554124
Total Zinc (Zn)	ug/L	<5	5	1554124
Total Zirconium (Zr)	ug/L	<1	1	1554124

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**RESULTS OF ANALYSES OF WATER**

Maxxam ID		Z58302	Z58303	Z58303	Z58304		Z58305		Z58306	Z58307	Z58308		
		2008/06/25	2008/06/25	2008/06/25	2008/06/25		2008/06/25		2008/06/25	2008/06/25	2008/06/25		
	Units	BG308	BG208	BG208 Lab-Dup	DS708	QC Batch	DS608	QC Batch	DS308	DS208	DS108	RDL	QC Batch
<b>Inorganics</b>													
Colour	TCU	39	8	8	36	1552296	35	1552235	85	76	86	2	1552296
Total Suspended Solids	mg/L	2	3		3	1550755	1	1550755	1	1	<1	1	1550755

Maxxam ID		Z58309	Z58309	Z58310		
		2008/06/25	2008/06/25	2008/06/25		
	Units	BG108	BG108 Lab-Dup	DS408	RDL	QC Batch
<b>Inorganics</b>						
Colour	TCU	40		49	2	1552296
Total Suspended Solids	mg/L	2	2	2	1	1550755

**ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)**

Maxxam ID		Z58302	Z58303	Z58304	Z58305	Z58306	Z58307	Z58308	Z58309	Z58310	Z58310		
		2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25		
	Units	BG308	BG208	DS708	DS608	DS308	DS208	DS108	BG108	DS408	DS408 Lab-Dup	RDL	QC Batch
<b>Metals</b>													
Mercury (Hg)	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1554373

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		Z58302	Z58303	Z58303	Z58304	Z58305	Z58306	Z58307	Z58308	Z58309		
		2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25		
	Units	BG308	BG208	BG208 Lab-Dup	DS708	DS608	DS308	DS208	DS108	BG108	RDL	QC Batch
<b>Volatile Organics</b>												
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	1550881
Benzene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Bromodichloromethane	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Bromoform	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Bromomethane	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1550881
Carbon Tetrachloride	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Chlorobenzene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Chloroform	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Dibromochloromethane	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,2-Dichlorobenzene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,3-Dichlorobenzene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,4-Dichlorobenzene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,1-Dichloroethane	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
1,2-Dichloroethane	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.1	<0.1	0.1	1550881
1,1-Dichloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
cis-1,2-Dichloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
trans-1,2-Dichloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
1,2-Dichloropropane	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
cis-1,3-Dichloropropene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1550881
trans-1,3-Dichloropropene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Ethylbenzene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Ethylene Dibromide	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Methylene Chloride(Dichloromethane)	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	1550881
Methyl Isobutyl Ketone	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	1550881
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	1550881
Methyl t-butyl ether (MTBE)	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Styrene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,1,1,2-Tetrachloroethane	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
1,1,2,2-Tetrachloroethane	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Tetrachloroethylene	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Toluene	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1550881
1,1,1-Trichloroethane	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
1,1,2-Trichloroethane	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1550881
Trichloroethylene	ug/L	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	1550881
Vinyl Chloride	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1550881

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		Z58302	Z58303	Z58303	Z58304	Z58305	Z58306	Z58307	Z58308	Z58309		
		2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25	2008/06/25		
	Units	BG308	BG208	BG208 Lab-Dup	DS708	DS608	DS308	DS208	DS108	BG108	RDL	QC Batch
p+m-Xylene	ug/L	<0.1	0.2	0.2	0.3	0.1	0.2	0.2	0.2	<0.1	0.1	1550881
o-Xylene	ug/L	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	1550881
Xylene (Total)	ug/L	<0.1	0.2	0.2	0.4	0.1	0.2	0.2	0.2	<0.1	0.1	1550881
<b>Surrogate Recovery ( % )</b>												
4-Bromofluorobenzene	%	91	92	90	91	91	90	95	91	92		1550881
D4-1,2-Dichloroethane	%	106	104	105	105	103	104	106	104	105		1550881
D8-Toluene	%	98	101	100	100	99	100	99	99	100		1550881

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		Z58310		
		2008/06/25		
Volatiles	Units	DS408	RDL	QC Batch
Acetone (2-Propanone)	ug/L	<10	10	1550881
Benzene	ug/L	<0.1	0.1	1550881
Bromodichloromethane	ug/L	<0.1	0.1	1550881
Bromoform	ug/L	<0.2	0.2	1550881
Bromomethane	ug/L	<0.5	0.5	1550881
Carbon Tetrachloride	ug/L	<0.1	0.1	1550881
Chlorobenzene	ug/L	<0.1	0.1	1550881
Chloroform	ug/L	<0.1	0.1	1550881
Dibromochloromethane	ug/L	<0.2	0.2	1550881
1,2-Dichlorobenzene	ug/L	<0.2	0.2	1550881
1,3-Dichlorobenzene	ug/L	<0.2	0.2	1550881
1,4-Dichlorobenzene	ug/L	<0.2	0.2	1550881
1,1-Dichloroethane	ug/L	<0.1	0.1	1550881
1,2-Dichloroethane	ug/L	<0.2	0.2	1550881
1,1-Dichloroethylene	ug/L	<0.1	0.1	1550881
cis-1,2-Dichloroethylene	ug/L	<0.1	0.1	1550881
trans-1,2-Dichloroethylene	ug/L	<0.1	0.1	1550881
1,2-Dichloropropane	ug/L	<0.1	0.1	1550881
cis-1,3-Dichloropropene	ug/L	<0.2	0.2	1550881
trans-1,3-Dichloropropene	ug/L	<0.2	0.2	1550881
Ethylbenzene	ug/L	<0.1	0.1	1550881
Ethylene Dibromide	ug/L	<0.2	0.2	1550881
Methylene Chloride(Dichloromethane)	ug/L	<0.5	0.5	1550881
Methyl Isobutyl Ketone	ug/L	<5	5	1550881
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5	5	1550881
Methyl t-butyl ether (MTBE)	ug/L	<0.2	0.2	1550881
Styrene	ug/L	<0.2	0.2	1550881
1,1,1,2-Tetrachloroethane	ug/L	<0.1	0.1	1550881
1,1,2,2-Tetrachloroethane	ug/L	<0.2	0.2	1550881
Tetrachloroethylene	ug/L	<0.1	0.1	1550881
Toluene	ug/L	<0.2	0.2	1550881
1,1,1-Trichloroethane	ug/L	<0.1	0.1	1550881
1,1,2-Trichloroethane	ug/L	<0.2	0.2	1550881
Trichloroethylene	ug/L	0.2	0.1	1550881
Vinyl Chloride	ug/L	<0.2	0.2	1550881

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch



Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

**VOLATILE ORGANICS BY GC/MS (WATER)**

Maxxam ID		Z58310		
		2008/06/25		
	Units	DS408	RDL	QC Batch
p+m-Xylene	ug/L	<0.1	0.1	1550881
o-Xylene	ug/L	<0.1	0.1	1550881
Xylene (Total)	ug/L	<0.1	0.1	1550881
<b>Surrogate Recovery ( % )</b>				
4-Bromofluorobenzene	%	91		1550881
D4-1,2-Dichloroethane	%	104		1550881
D8-Toluene	%	100		1550881

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSDOWNE HOUSE

Package 1	0.7°C
Package 2	1.0°C
Package 3	0.3°C

Each temperature is the average of up to three cooler temperatures taken at receipt

**GENERAL COMMENTS**

F1-BTEX Analysis.

The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1550755	Total Suspended Solids	2008/07/02					<1	mg/L	NC	25	103	85 - 115
1550881	4-Bromofluorobenzene	2008/07/04	100	70 - 130	99	70 - 130	90	%				
1550881	D4-1,2-Dichloroethane	2008/07/04	101	70 - 130	102	70 - 130	104	%				
1550881	D8-Toluene	2008/07/04	100	70 - 130	100	70 - 130	100	%				
1550881	Acetone (2-Propanone)	2008/07/04	99	60 - 140	99	60 - 140	<10	ug/L	NC	40		
1550881	Benzene	2008/07/04	95	70 - 130	96	70 - 130	<0.1	ug/L	NC	40		
1550881	Bromodichloromethane	2008/07/04	95	70 - 130	97	70 - 130	<0.1	ug/L	NC	40		
1550881	Bromoform	2008/07/04	106	70 - 130	108	70 - 130	<0.2	ug/L	NC	40		
1550881	Bromomethane	2008/07/04	92	60 - 140	90	60 - 140	<0.5	ug/L	NC	40		
1550881	Carbon Tetrachloride	2008/07/04	95	70 - 130	94	70 - 130	<0.1	ug/L	NC	40		
1550881	Chlorobenzene	2008/07/04	86	70 - 130	89	70 - 130	<0.1	ug/L	NC	40		
1550881	Chloroform	2008/07/04	98	70 - 130	100	70 - 130	<0.1	ug/L	NC	40		
1550881	Dibromochloromethane	2008/07/04	100	70 - 130	103	70 - 130	<0.2	ug/L	NC	40		
1550881	1,2-Dichlorobenzene	2008/07/04	77	70 - 130	91	70 - 130	<0.2	ug/L	NC	40		
1550881	1,3-Dichlorobenzene	2008/07/04	76	70 - 130	88	70 - 130	<0.2	ug/L	NC	40		
1550881	1,4-Dichlorobenzene	2008/07/04	78	70 - 130	88	70 - 130	<0.2	ug/L	NC	40		
1550881	1,1-Dichloroethane	2008/07/04	99	70 - 130	101	70 - 130	<0.1	ug/L	NC	40		
1550881	1,2-Dichloroethane	2008/07/04	94	70 - 130	96	70 - 130	<0.2	ug/L	NC	40		
1550881	1,1-Dichloroethylene	2008/07/04	96	70 - 130	95	70 - 130	<0.1	ug/L	NC	40		
1550881	cis-1,2-Dichloroethylene	2008/07/04	98	70 - 130	100	70 - 130	<0.1	ug/L	NC	40		
1550881	trans-1,2-Dichloroethylene	2008/07/04	98	70 - 130	96	70 - 130	<0.1	ug/L	NC	40		
1550881	1,2-Dichloropropane	2008/07/04	100	70 - 130	101	70 - 130	<0.1	ug/L	NC	40		
1550881	cis-1,3-Dichloropropene	2008/07/04	98	70 - 130	102	70 - 130	<0.2	ug/L	NC	40		
1550881	trans-1,3-Dichloropropene	2008/07/04	102	70 - 130	105	70 - 130	<0.2	ug/L	NC	40		
1550881	Ethylbenzene	2008/07/04	87	70 - 130	94	70 - 130	<0.1	ug/L	NC	40		
1550881	Ethylene Dibromide	2008/07/04	100	70 - 130	103	70 - 130	<0.2	ug/L	NC	40		
1550881	Methylene Chloride(Dichloromethane)	2008/07/04	93	70 - 130	95	70 - 130	<0.5	ug/L	NC	40		
1550881	Methyl Isobutyl Ketone	2008/07/04	99	60 - 140	100	60 - 140	<5	ug/L	NC	40		
1550881	Methyl Ethyl Ketone (2-Butanone)	2008/07/04	100	60 - 140	104	60 - 140	<5	ug/L	NC	40		
1550881	Methyl t-butyl ether (MTBE)	2008/07/04	99	70 - 130	100	70 - 130	<0.2	ug/L	NC	40		
1550881	Styrene	2008/07/04	92	70 - 130	99	70 - 130	<0.2	ug/L	NC	40		
1550881	1,1,1,2-Tetrachloroethane	2008/07/04	96	70 - 130	98	70 - 130	<0.1	ug/L	NC	40		
1550881	1,1,2,2-Tetrachloroethane	2008/07/04	97	70 - 130	99	70 - 130	<0.2	ug/L	NC	40		
1550881	Tetrachloroethylene	2008/07/04	81	70 - 130	78	70 - 130	<0.1	ug/L	NC	40		
1550881	Toluene	2008/07/04	93	70 - 130	95	70 - 130	<0.2	ug/L	NC	40		
1550881	1,1,1-Trichloroethane	2008/07/04	99	70 - 130	100	70 - 130	<0.1	ug/L	NC	40		
1550881	1,1,2-Trichloroethane	2008/07/04	101	70 - 130	102	70 - 130	<0.2	ug/L	NC	40		
1550881	Trichloroethylene	2008/07/04	91	70 - 130	91	70 - 130	<0.1	ug/L	NC	40		
1550881	Vinyl Chloride	2008/07/04	96	70 - 130	95	70 - 130	<0.2	ug/L	NC	40		

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1550881	p+m-Xylene	2008/07/04	81	70 - 130	89	70 - 130	<0.1	ug/L	NC	40		
1550881	o-Xylene	2008/07/04	88	70 - 130	97	70 - 130	<0.1	ug/L	NC	40		
1550881	Xylene (Total)	2008/07/04					<0.1	ug/L	NC	40		
1551028	o-Terphenyl	2008/07/02	100	30 - 130	95	30 - 130	89	%				
1551028	F2 (C10-C16 Hydrocarbons)	2008/07/02	103	60 - 130	102	60 - 130	<100	ug/L	5.8	50		
1551028	F3 (C16-C34 Hydrocarbons)	2008/07/02	103	60 - 130	102	60 - 130	<100	ug/L	NC	50		
1551028	F4 (C34-C50 Hydrocarbons)	2008/07/02	103	60 - 130	102	60 - 130	<100	ug/L	NC	50		
1551112	Turbidity	2008/07/02					<0.1	NTU	4.7	25	102	85 - 115
1551452	o-Terphenyl	2008/07/03	120	30 - 130	109	30 - 130	99	%				
1551452	F2 (C10-C16 Hydrocarbons)	2008/07/03	113	60 - 130	99	60 - 130	<100	ug/L	NC	50		
1551452	F3 (C16-C34 Hydrocarbons)	2008/07/03	113	60 - 130	99	60 - 130	<100	ug/L	NC	50		
1551452	F4 (C34-C50 Hydrocarbons)	2008/07/03	113	60 - 130	99	60 - 130	<100	ug/L	NC	50		
1551653	1,4-Difluorobenzene	2008/07/03	99	70 - 130	100	70 - 130	104	%				
1551653	4-Bromofluorobenzene	2008/07/03	100	70 - 130	99	70 - 130	99	%				
1551653	D10-Ethylbenzene	2008/07/03	109	70 - 130	102	70 - 130	109	%				
1551653	D4-1,2-Dichloroethane	2008/07/03	100	70 - 130	97	70 - 130	99	%				
1551653	F1 (C6-C10)	2008/07/03	87	70 - 130	103	70 - 130	<100	ug/L	NC	40		
1551653	F1 (C6-C10) - BTEX	2008/07/03					<100	ug/L	NC	40		
1551924	Nitrite (N)	2008/07/04	101	75 - 125	100	80 - 120	<0.01	mg/L	NC	25		
1551924	Nitrate (N)	2008/07/04	96	75 - 125	95	80 - 120	<0.1	mg/L	0.9	25		
1551943	Nitrite (N)	2008/07/04	102	75 - 125	103	80 - 120	<0.01	mg/L	NC	25		
1551943	Nitrate (N)	2008/07/04	100	75 - 125	100	80 - 120	<0.1	mg/L	NC	25		
1552235	Colour	2008/07/03			99	75 - 125	<2	TCU	NC	25		
1552296	Colour	2008/07/03			101	75 - 125	<2	TCU	NC	25		
1552402	Total Organic Carbon (TOC)	2008/07/04	92	75 - 125	102	75 - 125	<0.1	mg/L	6.7	20		
1552424	Total Ammonia-N	2008/07/07	103	80 - 120	103	80 - 120	<0.05	mg/L	NC	25		
1552720	Conductivity	2008/07/04					<2	umho/cm	0.3	25	101	85 - 115
1552721	Alkalinity (Total as CaCO3)	2008/07/04					<1	mg/L	NC	25	101	85 - 115
1552981	Total Organic Carbon (TOC)	2008/07/04	NC(1)	75 - 125	102	75 - 125	<0.1	mg/L	0.09	20		
1553085	Total Ammonia-N	2008/07/07	96	80 - 120	99	80 - 120	<0.05	mg/L	NC	25		
1553276	Total Aluminum (Al)	2008/07/07	116	80 - 120	117	80 - 120	5, RDL=5	ug/L	NC	25		
1553276	Total Antimony (Sb)	2008/07/07	112	80 - 120	111	82 - 120	<0.5	ug/L	NC	25		
1553276	Total Arsenic (As)	2008/07/07	109	80 - 120	108	86 - 119	<1	ug/L	NC	25		
1553276	Total Barium (Ba)	2008/07/07	108	80 - 120	101	83 - 115	<5	ug/L	NC	25		
1553276	Total Beryllium (Be)	2008/07/07	107	75 - 125	108	85 - 132	<0.5	ug/L	NC	25		
1553276	Total Boron (B)	2008/07/07	112	75 - 125	114	78 - 133	<10	ug/L	NC	25		
1553276	Total Cadmium (Cd)	2008/07/07	109	80 - 120	109	85 - 116	<0.1	ug/L	NC	25		
1553276	Total Calcium (Ca)	2008/07/07	114	75 - 125	111	75 - 125	<200	ug/L	1.5	25		
1553276	Total Chromium (Cr)	2008/07/07	113	80 - 120	114	80 - 120	<5	ug/L	NC	25		

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1553276	Total Cobalt (Co)	2008/07/07	112	80 - 120	112	82 - 117	<0.5	ug/L	NC	25		
1553276	Total Copper (Cu)	2008/07/07	111	80 - 120	110	80 - 117	<1	ug/L	NC	25		
1553276	Total Iron (Fe)	2008/07/07	112	80 - 120	112	80 - 120	<100	ug/L	NC	25		
1553276	Total Lead (Pb)	2008/07/07	108	80 - 120	104	80 - 120	<0.5	ug/L	NC	25		
1553276	Total Magnesium (Mg)	2008/07/07	113	80 - 120	116	80 - 120	<50	ug/L	2.0	25		
1553276	Total Manganese (Mn)	2008/07/07	117	80 - 120	114	80 - 120	<2	ug/L	2.7	25		
1553276	Total Molybdenum (Mo)	2008/07/07	107	80 - 120	109	82 - 117	<1	ug/L	NC	25		
1553276	Total Nickel (Ni)	2008/07/07	112	80 - 120	113	81 - 117	<1	ug/L	NC	25		
1553276	Total Potassium (K)	2008/07/07	114	75 - 125	109	75 - 125	<200	ug/L	NC	25		
1553276	Total Selenium (Se)	2008/07/07	113	75 - 125	114	82 - 118	<2	ug/L	NC	25		
1553276	Total Silicon (Si)	2008/07/07	110	75 - 125	109	67 - 140	<50	ug/L	4.7	25		
1553276	Total Silver (Ag)	2008/07/07	105	80 - 120	105	80 - 120	<0.1	ug/L	NC	25		
1553276	Total Sodium (Na)	2008/07/07	114	75 - 125	114	75 - 125	<100	ug/L	2.9	25		
1553276	Total Thallium (Tl)	2008/07/07	107	80 - 120	103	80 - 129	<0.05	ug/L	NC	25		
1553276	Total Tungsten (W)	2008/07/07	109	75 - 125	105	81 - 123	<1	ug/L	NC	25		
1553276	Total Uranium (U)	2008/07/07	109	80 - 120	106	82 - 120	<0.1	ug/L	NC	25		
1553276	Total Vanadium (V)	2008/07/07	118	80 - 120	116	82 - 118	<1	ug/L	NC	25		
1553276	Total Zinc (Zn)	2008/07/07	112	80 - 120	114	80 - 120	<5	ug/L	NC	25		
1553276	Total Zirconium (Zr)	2008/07/07	107	75 - 125	110	84 - 118	<1	ug/L	NC	25		
1553283	Total Phosphorus	2008/07/07	96	75 - 125	99	75 - 125	<0.002	mg/L	4.4	25	100	85 - 115
1553285	Total Phosphorus	2008/07/07	94	75 - 125	101	75 - 125	<0.002	mg/L	9.3	25	102	85 - 115
1553292	Total Phosphorus	2008/07/07	97	75 - 125	102	75 - 125	<0.002	mg/L	NC	25	99	85 - 115
1553402	Dissolved Calcium (Ca)	2008/07/07	NC(1)	85 - 115	101	85 - 115	<0.05	mg/L	0.1	25		
1553402	Dissolved Magnesium (Mg)	2008/07/07	101	85 - 115	98	85 - 115	<0.05	mg/L	0.4	25		
1553402	Dissolved Potassium (K)	2008/07/07	99	85 - 115	95	85 - 115	<1	mg/L	NC	25		
1553402	Dissolved Sodium (Na)	2008/07/07	114	85 - 115	99	85 - 115	<0.5	mg/L	NC	25		
1553562	Dissolved Chloride (Cl)	2008/07/07	103	75 - 125	101	80 - 120	<1	mg/L	NC	20		
1553575	Orthophosphate (P)	2008/07/07	101	75 - 125	102	80 - 120	<0.01	mg/L	NC	25		
1553576	Dissolved Sulphate (SO4)	2008/07/07	116	75 - 125	104	80 - 120	<1	mg/L	NC	25		
1554124	Total Aluminum (Al)	2008/07/07	96	80 - 120	113	80 - 120	9, RDL=5	ug/L				
1554124	Total Antimony (Sb)	2008/07/07	112	80 - 120	111	82 - 120	<0.5	ug/L				
1554124	Total Arsenic (As)	2008/07/07	94	80 - 120	115	86 - 119	<1	ug/L				
1554124	Total Barium (Ba)	2008/07/07	97	80 - 120	112	83 - 115	<5	ug/L				
1554124	Total Beryllium (Be)	2008/07/07	100	75 - 125	111	85 - 132	<0.5	ug/L				
1554124	Total Boron (B)	2008/07/07	101	75 - 125	112	78 - 133	<10	ug/L				
1554124	Total Cadmium (Cd)	2008/07/07	103	80 - 120	116	85 - 116	<0.1	ug/L				
1554124	Total Calcium (Ca)	2008/07/07	NC(1)	75 - 125	109	75 - 125	<200	ug/L	8.4	25		
1554124	Total Chromium (Cr)	2008/07/07	99	80 - 120	112	80 - 120	<5	ug/L				
1554124	Total Cobalt (Co)	2008/07/07	95	80 - 120	109	82 - 117	<0.5	ug/L	NC	25		

Maxxam Job #: A869534  
Report Date: 2008/07/08

Trow Associates Inc  
Client Project #: F-08106  
Project name: LANSLOWNE HOUSE

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits	% Recovery	QC Limits
1554124	Total Copper (Cu)	2008/07/07	92	80 - 120	110	80 - 117	<1	ug/L				
1554124	Total Iron (Fe)	2008/07/07	94	80 - 120	114	80 - 120	<100	ug/L				
1554124	Total Lead (Pb)	2008/07/07	100	80 - 120	107	80 - 120	<0.5	ug/L				
1554124	Total Magnesium (Mg)	2008/07/07	NC <sup>(1)</sup>	80 - 120	114	80 - 120	<50	ug/L				
1554124	Total Manganese (Mn)	2008/07/07	96	80 - 120	111	80 - 120	<2	ug/L				
1554124	Total Molybdenum (Mo)	2008/07/07	107	80 - 120	110	82 - 117	1, RDL=1	ug/L	9.8	25		
1554124	Total Nickel (Ni)	2008/07/07	94	80 - 120	111	81 - 117	<1	ug/L				
1554124	Total Potassium (K)	2008/07/07	97	75 - 125	109	75 - 125	<200	ug/L	8.2	25		
1554124	Total Selenium (Se)	2008/07/07	102	75 - 125	114	82 - 118	<2	ug/L				
1554124	Total Silicon (Si)	2008/07/07	88	75 - 125	102	67 - 140	<50	ug/L				
1554124	Total Silver (Ag)	2008/07/07	100	80 - 120	111	80 - 120	<0.1	ug/L				
1554124	Total Sodium (Na)	2008/07/07	NC <sup>(1)</sup>	75 - 125	106	75 - 125	<100	ug/L				
1554124	Total Thallium (Tl)	2008/07/07	102	80 - 120	108	80 - 129	0.05, RDL=0.05	ug/L				
1554124	Total Tungsten (W)	2008/07/07	106	75 - 125	105	81 - 123	<1	ug/L				
1554124	Total Uranium (U)	2008/07/07	109	80 - 120	108	82 - 120	<0.1	ug/L				
1554124	Total Vanadium (V)	2008/07/07	101	80 - 120	113	82 - 118	<1	ug/L				
1554124	Total Zinc (Zn)	2008/07/07	97	80 - 120	113	80 - 120	<5	ug/L				
1554124	Total Zirconium (Zr)	2008/07/07	110	75 - 125	110	84 - 118	<1	ug/L				
1554373	Mercury (Hg)	2008/07/07	105	75 - 125	106	84 - 113	<0.1	ug/L	NC	25		

N/A = Not Applicable

NC = Non-calculable

RDL = Reportable Detection Limit

RPD = Relative Percent Difference

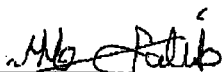
(1) - The recovery in the matrix spike was not calculated (NC). Because of the high concentration of this analyte in the parent sample, the relative difference between the spiked and unspiked concentrations is not sufficiently significant to permit a reliable recovery calculation.

Validation Signature Page

Maxxam Job #: A869534

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



MAMDOUH SALIB, Analyst, Hydrocarbons



TROY CARRIERE, B.Sc., C.Chem, Scientific Specialist



MEDHAT RISKALLAH, Manager, Hydrocarbon Department

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

28-Jun-08 10:13

SAMANTHA LYONS

CHAIN OF CUSTODY RECORD

Page 1-1

**INVOICE INFORMATION:**

Company Name: #17501 Trow Associates Inc  
 Contact Name: Chris Perusse  
 Address: 1142 Roland St  
 Thunder Bay ON P7B 5M4  
 Phone: (807) 623-8495 x240 Fax: (807) 623-8070  
 Email: chris.perusse@trow.com; ahileas.mitsopoulos@trow.com

Company: SK ENV-924  
 Contact No: A869534  
 Address: S\_K ENV-924  
 Fax:

**PROJECT INFORMATION:**  
 Quotation #: A84115  
 P.O. #:  
 Project #: F-08106  
 Project Name: Surface Water Assessment  
 Site Location: Lansdowne House  
 Sampled By: EL FARKAS

**Laboratory Use Only:**  
 MAXXAM JOB #: 84834  
 BOTTLE ORDER #: 84834  
 CHAIN OF CUSTODY #: C#84834-01-01  
 PROJECT MANAGER: SAMANTHA LYONS

**REGULATORY CRITERIA:**

MISA Reg. 153/04 Sewer Use:  Sanitary  Storm  Combined  
 RWQC  Table 1  Table 2  Table 3  Table 4 Municipality  
 Reg. 558  
 Other (specify):

**SPECIAL INSTRUCTIONS:**

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form.

**ANALYSIS REQUESTED (Please be specific):**

Regulated Drinking Water? (Y/N)  Y  
 Metals: Field Filtered? (Y/N)  Y

Colour	F1-F4	Mercury	RCAP - Surface Water Pkg	TSS-low	Volatiles
X	X	X	X	X	X

**TURNAROUND TIME (TAT) REQUIRED:**

PLEASE INDICATE TAT FOR RUSH PROJECTS

Regular (Standard) TAT:   
 (will be applied if Rush TAT is not specified)  
 Standard TAT = 5-7 Working days for most tests.  
 Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.  
 Job Specific Rush TAT (if applies to entire submission)   
 Date Required: \_\_\_\_\_ Time Required: \_\_\_\_\_  
 Rush Confirmation Number: \_\_\_\_\_ (Call 800-563-6266)

Sample Barcode Label	Sample Location/Identification	Date Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals: Field Filtered? (Y/N)	Colour	F1-F4	Mercury	RCAP - Surface Water Pkg	TSS-low	Volatiles	# of Bottles
1	BG 308	08/06/25	SW	N	N	X	X	X	X	X	X	14
2	BG 208		SW	N	N							14
3	DS 708		SW	N	N							14
4	DS 608		SW	N	N							14
5	DS 308		SW	N	N							14
6	DS 208		SW	N	N							14
7	DS 108		SW	N	N							14
8	BG 108		SW	N	N							14
9	DS 408		SW	N	N							14
10			SW	N	N							14



'08 JUN 28 10:13

**RELINQUISHED BY:** (Signature/Print) *E. Farkas* Date: (YY/MM/DD) 08/06/26 Time: \_\_\_\_\_

**RECEIVED BY:** (Signature/Print) *[Signature]* Date: (YY/MM/DD) 08/06/28 Time: 10:13

**Laboratory Use Only:**  
 Time Sensitivity:  Time Temperature (°C) on Receipt: 01111°C  
 Condition of Sample on Receipt:  OK  SIF  Yes  No  
 Custody Seal Intact on Cooler?  Yes  No  
 White: Minimum Yellow: Close

IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.