SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING REPORT 2015

Township of Melancthon Landfill Site
Lot 12, Concession 4
Melancthon Township, Ontario

Project No. BG-530

Prepared for:

The Corporation of the Township of Melancthon
R.R. #6
Shelburne, ON.
L0N 1S9
ATTN: DENISE HOLMES, AMCT, CLERK-TREASURER

FEBRUARY 2016

Act 3 - March 3, 2016

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February 17, 2016

The Corporation of the Township of Melancthon
R.R. #6,
Shelburne, Ontario L0N 1S9
Attn: Ms. Denise Holmes, AMCT, Clerk-Treasurer

Dear Ms. Holmes:

Re: 2015 Semi-Annual Groundwater Monitoring and Sampling Report, Township of Melancthon Landfill Site, Lot 12, Concession 4 Melancthon Township, Ontario

Bluewater Geoscience Consultants Inc. (Bluewater) was retained by The Corporation of the Township of Melancthon to complete the 2015 Semi-Annual Groundwater Monitoring and Sampling Report for the Melancthon Township landfill property located on Lot 12, Concession 4 in Melancthon Township, Ontario. The Township operates a municipal landfill site at the property and requires the Groundwater Monitoring and Sampling Program for their MOE Certificate of Authorization (C of A) for the operation.

The scope of work, observations, analytical test results, and our conclusions and recommendations for the 2015 Semi-Annual Groundwater Monitoring and Sampling Report are presented in the following report.

We trust that this report is complete within our terms of reference and suitable for your present requirements. If you have any questions or require further information, please do not hesitate to contact our office.

Sincerely,
BLUEWATER GEOSCIENCE CONSULTANTS INC.

Breton J. Lemieux, M.Sc., P.Geo. QP_{ESA}
President, Senior Geoscientist

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1.0 INTRODUCTION

The Corporation of The Township of Melancthon (Township) retained Bluewater Geoscience Consultants Inc. (Bluewater) to complete the 2015 landfill (LF) groundwater monitoring and sampling program and to generate the annual report detailing the findings. The landfill site monitoring was undertaken to continue to assess any environmental impacts to surface and groundwater created by the LF operations. This landfill monitoring report was completed in accordance with the requirements of the Ministry of the Environment's Certificate of Approval for the LF site.

The site monitoring included completing two site inspections, measuring groundwater levels in all 35 observation wells during the Spring and Fall of the year and determination of the resulting groundwater flow patterns in and around the LF. Groundwater sampling was conducted on 31 selected sampling wells during both the Spring and Fall of each year. The groundwater samples for 2015 were submitted to a CAEL-accredited analytical laboratory for analysis. The results of the completed laboratory analyses were compared to MOE's Ontario Drinking Water Standards (ODWS) (for on-site monitors) and the Reasonable Use Policy (RUP) for off-site monitors.

2.0 PREVIOUS INVESTIGATIONS

2.1 R.J. Burnside & Associates Limited – Annual Groundwater Monitoring Reports 1993-2000

Annual groundwater monitoring reports for the LF were completed by R.J. Burnside & Associates Limited (Burnside) from 1993 – 2000. These reports included the sampling and analysis of groundwater samples from seventeen existing monitoring wells located in and around the LF site. Eleven of the monitors are located in the overburden aquifer while six are installed within the underlying bedrock aquifer. A summary of these reports indicates that no exceedance of the MOE RUP had been determined during the groundwater sampling events. In general, on-site monitoring locations indicated that exceedance of the MOE's ODWS for on-site monitors were rare and not sustained.

2.2 Rubicon Environmental Inc. – Groundwater Monitoring and Hydrogeological Investigations – Spring 2001

During 2001 Rubicon added another fourteen groundwater monitors to the existing network of monitors in and around the LF site. Eight of these monitors were installed in the overburden aquifer while six were installed in the bedrock aquifer.

During the 2001 investigations, the existing monitoring wells installed by Burnside were sampled and analysed. The additional monitoring wells were tied into the site survey, but not sampled.

2.3 Rubicon Environmental Inc. – Groundwater Monitoring and Hydrogeological Investigations – Spring 2002

This report included results of the Spring and Fall 2002 site monitoring and groundwater sampling and analysis program. The monitoring and sampling included the new monitors added during 2001.

2.4 Rubicon Environmental Inc. – Landfill Monitoring – March 24, 2004

This report provides details of the 2003 LF groundwater monitoring and sampling program completed at the site. The report details that some minor exceedances of the ODWS were determined for on-site monitoring wells.

2.5 Bluewater Geoscience Consultants Inc. – Annual Groundwater Monitoring and Sampling Reports 2004 - 2014

These reports detail the 2004 - 2014 LF groundwater monitoring and sampling program completed at the site. The report details that some minor exceedances of the ODWS were determined for on-site and off-site monitoring wells.

3.0 SITE BACKGROUND

The LF site has been in operation since ~1973 at its current location at Lot 12, Concession 4, Township of Melancthon, County of Dufferin. The LF serves the population of ~2,400 people in the Township. The nearest residence is located ~450 m south of the LF site. The location of the LF is remote and distant from any significant population centres.

The LF presently operates under Provisional Certificate of Approval (C of A) A180703. The total LF property comprises an area of ~33.038 ha., of which 6.1 ha. has been approved for landfilling. In 2013, waste placement was proceeding aboveground in the northwestern portion of the approved filling area. This fill area has been in use since late 2003 and is immediately adjacent to the west of the former fill area (Figure 1, Appendix A). During 2013 the County of Dufferin assumed waste collection and disposal services in the Township of Melancthon. Further waste disposal at this landfill is not anticipated should County of Dufferin services be found adequate.

3.1 Site Inspection

During both Spring and Fall monitoring events, a site inspection was completed. The main refuse disposal area has been covered with soil and grades have been established to reduce the amount of rainwater infiltration into the waste pod. Temporary fencing has been placed around portions of the fill area to control windblown waste. There was no waste placement at this landfill during 2015.

During the Spring 2006 inspection it was noted that OW-4S had been destroyed, likely by equipment working in the area. OW-4S is located within the current filling are. During the Fall inspection it was

noted that OW-4D had been destroyed during the summer months. OW-4D was also located within the current filling area.

4.0 GROUNDWATER MONITORING WELLS AND METHODOLOGY

4.1 Existing Monitoring Wells in 2015

Thirty-five groundwater-monitoring wells were in existence at the commencement of the 2014 monitoring period. All wells were inspected and found to be in good order, with the exceptions noted just above. During the Spring 2015 site inspection it was found that OW-17, located along the east side of the 4th Concession had been damaged during the winter and could not be located. This well was not sampled during 2015. OW-17 does not constitute a delineation well and is therefore not considered critical at this time. Should conditions dictate in the future, OW-17 may need to be replaced.

Seventeen monitoring wells had been installed by Burnside pre-2001. Six of these were installed in the deeper bedrock aquifer (denoted "D" for deep) while eleven were installed in the shallow overburden aquifer (denoted "S" for shallow). All existing monitoring wells were constructed of 50 mm diameter Schedule 40 PVC pipe and are fitted with steel protective casings and locks. The locations of all monitoring wells are presented on the Base Site Plan (Figure 1B, Appendix A). A brief description of each monitor locations is provided below:

- OW 1 is installed in the overburden aquifer and is located between two former refuse disposal areas
- OW 2S and OW 2D are located downgradient (east) of the current refuse disposal area
- OW 3S and OW 3D are located immediately downgradient (east) of the current refuse disposal area
- OW 4S and OW 4D are no longer present
- OW 5S is installed in the overburden aquifer and is located north of the disposal area, near the northern property boundary. This monitor is frequently dry in Fall
- OW 6S and OW 6D are located near the south property boundary and had been intended to represent background water quality
- OW 7S and OW 7D are located near the northeast property corner, northeast of the former refuse disposal area
- OW 8 is installed in the overburden aquifer and is located in the main refuse area. OW 8 is considered a 'leachate' well
- OW 9S and OW 9D are located off-site, northeast of the landfill and in the east ditch of the 4th Line
- OW 10S and OW 10D are located east of the main refuse disposal area
- OW 11S and OW 11D are located northwest of the main refuse disposal area. These monitors were intended to provide further clarification of groundwater flow patterns and are not included in the sampling program
- OW 12S and OW 12D are located west of the main refuse disposal area. These monitors were intended to provide further clarification of groundwater flow patterns and have been

included since the 2006 sampling program

- OW 13S and OW 13D are located immediately south of the main refuse disposal area. These wells were located to provide better delineation of the groundwater mounding in the refuse area and provide chemical data south of the refuse area
- OW 14S is located southeast of the main refuse disposal area and was intended to help clarify groundwater flow patterns distant from the refuse disposal area
- OW 15S and OW 15D are located southeast of the main refuse disposal area and were intended to help clarify groundwater flow patterns distant from the main refuse disposal area. These monitors were sampled for the first time during 2006.
- OW 16S and OW 16D are located along the north property boundary. These monitors were intended to provide clarification of groundwater flow patterns and provide chemical analysis of groundwater at the north property boundary. These monitors were sampled for the first time during the 2006 program.
- OW 17S is located off-site in the overburden aquifer. The monitor is located in the east ditch of the 4th Line. This monitor was intended to provide better information on shallow groundwater flow patterns and potentially provide chemical data regarding the contribution of road salt to noted groundwater impacts
- OW 18S and OW 18D are located off-site east of the 4th Line. These monitors were intended to help refine groundwater flow patterns in the overburden and bedrock aquifers and provide chemical data in that area

4.2 Wells Installed in 2006

During 2006 an additional six monitoring wells were installed at the landfill. The six new wells consisted of three sets of two wells (OW-19S and 19I, OW20S and 20D and OW-21S and 21D). The locations of the new wells are shown on Figure 1B, Appendix A. A description of the location and rationale for each of the new wells is presented below:

- OW-19S and OW-19I are located in the southeast corner of the landfill property, just west of the 4th Line. These wells were installed to provide additional points for determining groundwater flow patterns and to provide chemical data at this downgradient property boundary. OW-19S is set in the shallow till overburden while OW-19I (intermediate) is set in a lower till unit. These two wells were included in the 2007 sampling and lab analysis program for the first time.

- OW-20S and OW-20D are located just southeast of the 'old closed landfill' in the northeast portion of the landfill property. These wells will provide further groundwater flow data as well as providing additional chemical data. OW-20S is set in the shallow overburden, just above the bedrock. OW-20D is sealed into the bedrock. These two wells were included in the 2007 sampling and lab analysis program for the first time.

- OW-21S and OW-21D are located along the north landfill property boundary, well west of the active landfilling area. These wells will be utilized to provide additional groundwater flow information as well as providing chemical data at locations well upgradient of the fill area. OW-21S is set in the shallow overburden, just above the bedrock. OW-21D is sealed

into the dolostone bedrock. These two wells were included in the 2007 sampling and lab analysis program for the first time.

All groundwater-monitoring wells have been surveyed relative to a geodetic datum and ground surface and top of monitoring well pipe elevations have been recorded. During 2006, waste placement was taking place in the immediate area of OW-4S and OW-4D. These wells were destroyed by the heavy equipment. OW-17 was destroyed during the winter of 2014-2015 as is no longer part of the monitoring network.

4.3 Water Level Monitoring

On April 29 and November 4, 2014 groundwater levels were measured in all 36 existing monitoring wells installed at the LF. The depth to water relative to the top of monitoring well pipe was measured using a Solinst water level gauge. The determined water depths were recorded and the resulting groundwater elevations were determined. Table 1, Appendix B provides the tabular representation of the groundwater elevation data, including historic groundwater levels.

After completion of the water level measurements, the monitors selected for sampling were thoroughly purged of a minimum of 3 casing volumes of water in anticipation of the groundwater sampling.

4.4 Groundwater Sampling

The 2015 groundwater sampling and analysis program consisted of sampling up to 31 selected groundwater monitoring locations at and around the LF property. Samples were obtained from both overburden and bedrock aquifer wells. Prior to obtaining the groundwater samples, the selected monitors had been purged of a minimum of three casing volumes of water in order to facilitate provision of representative samples.

Groundwater samples from the selected monitoring wells were obtained using dedicated Waterra tubes and foot valves and were placed directly into the laboratory-supplied sample bottles. The groundwater samples were obtained and submitted for analysis of the volatile organic compounds (VOC's), general water chemistry and heavy metals parameters. The heavy metal samples were field filtered and preserved. The groundwater samples were chilled in coolers prior to being submitted under Chain of Custody to ALS Laboratories of Waterloo, ON for analysis. ALS is a CAEL (Canadian Association of Environmental Laboratories) accredited laboratory.

4.5 Surface Water Sampling

One surface water sample was obtained at location SW-3 (Figure 1) during the Spring monitoring. This location is a small dugout (possible former gravel extraction pit) located on the property adjacent to the north. It is our understanding that the Township has now purchased this property.

4.6 Groundwater Flow

The determination of groundwater flow patterns in both overburden and bedrock aquifers are essential in determining the potential for off-site impacts and contaminant distribution. In general, groundwater levels in both overburden and bedrock aquifers were lower (~1m) in the Fall than the Spring monitoring. The measured groundwater elevations for each aquifer were determined and plotted on the site plan. The resulting groundwater flow patterns were determined based on this distribution. Figures 2 and 3 present the groundwater flow patterns for the Spring monitoring while Figures 4 and 5 provide the Fall 2015 aquifer flow patterns.

As may be noted from these Figures, mounding of groundwater in both aquifers within the refuse disposal area is occurring. This phenomenon is typical of landfill sites and should be expected to continue. The mounding creates radial flow, outwards, apparently in all directions away from the refuse disposal area. The flow then comes under the influence of background flow patterns. Based on the findings of this, and previous, monitoring events, the overburden groundwater flow is towards the northeast while the bedrock groundwater flow is more-directly eastwards.

Groundwater flow is driven by the gradient of the groundwater. This produces head differences between locations creating the conditions for groundwater movement. The horizontal hydraulic gradient in the overburden aquifer has been determined to be on the order of 0.007 m/m. Based on this gradient, and the characteristics of the overburden, the lateral groundwater flow velocity may be approximately 74 m/yr. The horizontal hydraulic gradient in the bedrock aquifer is lower; approximately 0.002 m/m. Based on this gradient and the characteristics of the aquifer, velocities of approximately 0.03 m/yr are estimated.

Vertical hydraulic gradients between the overburden and bedrock aquifers create the conditions for downward migration of groundwater impacted in the refuse disposal area. Downward vertical gradients allow downward movement of water into the bedrock aquifer. Downward vertical gradients are found in the refuse disposal area allowing shallow impacted groundwater to potentially enter the bedrock aquifer. This is significant because the bedrock aquifer is utilized as a potable water source within the Township and the bedrock aquifer is less able to attenuate groundwater contaminants.

5.0 GROUNDWATER QUALITY

5.1 Groundwater

Groundwater sampling and analysis for the LF site has been undertaken since 1993. Additional wells were added to the sampling regime in 1999 and selected monitoring wells installed in 2001 were added to the sampling list during 2002. Groundwater quality data for the 2013 program are provided in the Tables in Appendix B along with chemistry data from 2007 - 2015. Copies of the detailed Certificates of Analysis for the 2015 monitoring data are provided in Appendix C.

Inorganic parameters such as chloride, sulphate, hardness and alkalinity are frequently utilized to determine the extent of landfill leachate impacts in groundwater. Hardness and alkalinity are naturally elevated at the landfill property and throughout Melancthon Township. Chloride levels in both overburden and bedrock aquifers are elevated in the refuse disposal area. In general, concentrations in the bedrock aquifer are slightly higher than in the associated overburden wells. This is a reflection of the downward gradient from the overburden to the bedrock coupled with the lower attenuation capabilities in the bedrock. None of the on-site or off-site monitors exceeded the MOE ODWS concentration for chloride during the 2015 monitoring events. None of the wells sampled during 2015 exceeded the MOE RUP for chloride (125.5 mg/L) concentration. Elevated chloride concentrations in this vicinity of the 4th Line, east of the LF, may be partially attributable to the application of road salt during winter. OW –18 S and D (as well as OW-9S and D) are located within the roadside ditch of the 4th Line and are likely to collect runoff from the road. Chloride concentration was also elevated (but below RUP) at OW-3D, located just downgradient of the current fill area.

In general, the background groundwater quality at the LF site consists of hard water with elevated hardness, alkalinity, manganese and iron content. During the 2014 monitoring, all wells sampled had determined hardness in excess of the ODWS. Alkalinity concentrations in excess of the ODWS were noted at OW's 2S, 2D, 3D, 7S, 7D, 9D, 12S and 18S. Iron concentrations in excess of the ODWS were determined at all sampled wells including upgradient locations. Manganese concentrations in excess of the ODWS were determined for OW's 2S, 2D, 3S, 3D, 6S, 6D, 7S, 7D, 9S, 9D, 10S, 10D, 13S, 13D, 15D, 16S, 16D, 17S, 18S, 18D, 19S, 20S and 20D. As this list includes all sampled location except OW-1, OW-5 and OW-8 these elevated concentrations are likely reflective of background groundwater quality in the area. The lack of significantly elevated manganese concentrations at OW-8, which is considered a leachate well and displays elevated sulphate concentrations, further suggests that elevated manganese concentrations are not landfill related.

The sulphate concentrations at OW 8 of 550 mg/L in Spring 2015 and828 mg/L in Fall 2015 were in excess of the ODWS of 500 mg/L and RUP of 253.9 mg/L. These elevated concentrations are likely related to leachate groundwater impacts in the main refuse disposal area. During the Fall monitoring, elevated sulphate concentrations approaching the RUP value were not recorded (except at OW-8). No other on-site or off-site monitor exceeded the RUP for sulphate.

Parameter concentration trends through time for sulphate, chloride and manganese for selected off-site, property boundary and downgradient wells reviewed. Manganese concentrations trends do not suggest rising levels as would be expected if landfill related. Chloride trends do not suggest rising concentrations for these wells. In fact, several locations have shown slightly declining levels over the last few years. This is likely reflective of an effort on Township personnel's behalf to reduce salting in the area of the landfill entrance after several elevated chloride concentrations were detected in past years. As suggested at that time, those past elevated chloride concentrations appear to have been affected by these road salting activities.

The sulphate concentration trends for the selected wells show generally rising concentrations at OW-2S and OW-2D. Sulphate concentrations at the other selected wells do not indicate any discernible rising trends. Sulphate concentrations are generally higher in Fall than Spring. A site plan showing concentration distribution during Spring 2015 for shallow groundwater wells is provided in Figure 6

and for deep groundwater wells is provided in Figure 8, Appendix A. A site plan showing concentration distribution for Sulphate during Fall 2015 for shallow wells is provided on Figure 10 and for deep groundwater wells is provided on Figure 12, Appendix A.

A site plan showing chloride distribution during Spring 2015 is provided in Figure 7 for shallow groundwater wells and in Figure 9 for deep groundwater wells. A site plan showing chloride distribution during Fall 2015 is provided in Figure 11 and for shallow groundwater wells and in Figure 13 for deep groundwater wells.

Trace concentrations of VOC parameters, well below ODWS's and close to method detection limits, were determined for the 2015 monitoring at OW's 2D, 3D, 7D and 18D. While these VOC concentrations are likely landfill related, they are not considered to be of significance at this landfill.

There was a general trend towards higher parameter concentrations during the Fall monitoring compared to Spring concentrations. This is a continuing trend, consistent with past findings and normal groundwater conditions.

Bluewater has evaluated the long-term trends in groundwater quality at the LF site. Most parameter concentrations have remained fairly steady over the past several years suggesting that dilution and attenuation are dealing adequately with the refuse area derived leachate impacts.

5.2 Surface Water

One surface water sample was collected during the Spring 2015 monitoring event from the dugout located just north of the landfill. The surface water sample (SW-3) did not show indications of landfill-related groundwater impacts.

5.3 Methane Monitoring

Methane gas is a by-product of waste decomposition and will be generated in the waste unit until all the organic matter is completely decayed. Methane, while it is a potential explosion hazard, is not a major concern provided that no building is ever permitted within approximately 30 meters of the refuse disposal area. The shallow water table and relatively permeable cover material at the Melancthon landfill are expected to prevent significant migration of methane. Gas produced by the landfill is expected to vent naturally to the atmosphere. It should be noted however, that ice, snow cover, and frozen ground in the winter may prevent methane gas from venting and cause methane gas to migrate laterally from the refuse disposal area.

If methane is present in concentrations between 5% and 15% in air it can become explosive. Below this range, there is an inadequate amount of methane for explosion. Above this range, there is an inadequate amount of oxygen for explosion. Therefore, 5% is considered the Lower Explosive Limit (LEL) and 15% is considered the Upper Explosive Limit (UEL) for methane.

Headspace methane monitoring was completed on all wells during both Spring and Fall 2015 monitoring events. The results of the methane monitoring are presented in Table 2 Appendix B. A slight detectable methane concentration was determined for OW-8 however no other of the monitors

had detectable methane concentrations during the Spring or Fall 2015 monitoring events. On-going methane monitoring should be incorporated in future monitoring events.

6.0 LANDFILL VOLUMES AND CAPACITY

The Melancthon landfill has a current design capacity of 297,000 m^3 on the approved 6.1 ha area. At the completion of 2012, 89,326 m3 of the total volume had been filled. The volume survey completed during October 2013 determined that the landfill volume used during 2013 was 10,636 m^3 meaning the total volume used to the end of 2015 is 99,962 m^3. The 2013 volume included the importation of ~ 2,000 m3 of clean fill to cover the current fill area based on the end of waste receiving at the site. No waste was added during 2015. Based on this figure, the remaining fill volume for this design is 197,038 m^3.

7.0 SUMMARY AND CONCLUSIONS

The following section summarizes the findings of the 2015 Annual Groundwater Monitoring Report:

- The Township of Melancthon operates a 'natural attenuation' landfill site in a remote, sparsely populated area of the Township. Surrounding land use is predominantly agricultural and the nearest residence is located ~450 m south of the site;

- During 2013 The County of Dufferin assumed waste collections and disposal responsibilities for Melancthon Township. No waste was imported to the landfill during 2015. At this time, further waste placement at this landfill is not anticipated given adequate service is maintained by the County;

- Two main hydrogeological units exist in the subsurface of the site. The upper unit, referred to as overburden, consists of sand and gravel and silty sand soils. The groundwater level in the overburden is unconfined and shallow (<2m) and shows seasonal fluctuations with Spring levels generally higher than those in Fall. This fluctuation is likely the result of the addition of snow melt water during the Spring. The second, deeper hydrogeological unit is the underlying dolostone bedrock aquifer. The water level in the bedrock is generally lower than in the overburden. This creates a downward vertical hydraulic gradient that allows landfill-generated impacts to potentially enter the bedrock aquifer;

- Mounding of groundwater occurs within both hydrogeological units within the refuse disposal area. This mounding creates a radial flow pattern in the refuse area that drives flow in all directions away from the mound. The groundwater then comes under the influence of the background (natural) flow regime. Groundwater flow in the overburden aquifer is northeast towards the entrance to the landfill in the northeast corner of the property. Flow in the bedrock aquifer is more-directly to the east and the eastern property boundary;

- Comparison of the laboratory analytical data from the Spring and Fall 2015 monitoring events to the applicable ODWS and RUP objectives indicates that background water quality exceeds ODWS Standards for hardness, alkalinity, iron and manganese;

- Exceedance of the MOE RUP objectives for parameters such as hardness, alkalinity, manganese and iron were determined at most sampled locations during 2015. These concentrations are likely at least partially unrelated to landfill impacts and reflect general water quality in Melancthon Township. No chloride RUP exceedance was noted for any off-site or on-site wells. Exceedance of the RUP for other leachate-indicators such as sulphate was not noted during 2012 near property boundaries. Exceedance of the RUP and ODWS for sulphate occurred at OW-8, located immediately downgradient of the principal fill area. Elevated sulphate concentrations in excess of the RUP were determined at OW-18S, OW-18D and OW-20D during the Spring 2013 monitoring. These apparently anomalous sulphate concentrations were not repeated during 2014 or 2015. Further on-going monitoring will be used to track future sulphate concentrations at these monitor locations;

- Significant methane concentrations were not determined during 2015;

- The site is currently in compliance with the terms and conditions of its C of A.

8.0 RECOMMENDATIONS

The following recommendations are made regarding the future Groundwater Monitoring and Sampling Program at the Township of Melancthon landfill site:

- Continuation of the semi-annual groundwater monitoring and sampling program including a routine site inspection, recording of static water levels at all 36 monitoring locations and groundwater sampling and laboratory analysis of the selected monitoring wells in both Spring and Fall;

- Preparation and submission of an Annual Monitoring Report to MOE for review.

- Natural dilution of contaminants derived in the refuse disposal area coupled with natural attenuation in the overburden appears to be dealing with derived groundwater impacts adequately at this time. The widespread occurrence, including upgradient locations, of ODWS and RUP exceeding manganese, iron, hardness and alkalinity concentrations appears to be more a function of natural geologic conditions than landfill-derived impacts. Lab results for monitors downgradient of the principal fill areas show more elevated chloride and sulphate concentrations, which are not similar to findings in the northeast corner of the property.

- Monitoring for headspace methane concentration in all wells should be continued for the 2016 program.

9.0 REFERENCES

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MOE, 1998 "Landfill Standards"

Rubicon Environmental Inc., 2004. "Landfill Monitoring 2003, Township of Melancthon Landfill Site".

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10.0 LIMITATIONS

This report was prepared for the exclusive use of The Township of Melancthon. This report is based on information and data collected during the completion of an environmental investigation of the Site carried out by Bluewater Geoscience Consultants Inc., and is based solely on the site conditions encountered at the time of the assessment and the applicable guidelines in place at the time of this investigation.

It should be noted that the observations and recommendations presented in this report are limited to the actual locations explored and laboratory parameters analyzed. The information presented in terms of the thickness and types of the sub-soils encountered, groundwater levels and chemical testing results, etc., are only applicable to the actual locations explored. Variations may be present between these locations. Should significant variation become apparent during later investigations, it may be necessary to re-evaluate the recommendations of this report. The results of an investigation of this nature should, in no way, be construed as a warranty that the site is free from any and all contamination from past or current practices since conditions may be different from the locations tested. This assessment was carried out using existing historical information as available from various agencies and no assurance is made regarding the accuracy or completeness of this information.

If new information is discovered during future work, including excavation, borings or other studies, Bluewater Geoscience Consultants Inc. should be requested to re-evaluate the conclusions presented in this report and to provide amendments as required. The analytical test results are assumed to be correct and performed according to all current regulations. No audit of the laboratory's methods or procedures was performed.

This assessment does not include, nor is it intended to include, any option regarding the suitability of any structure on the site for any particular function, the integrity of the on-site buildings or the

geotechnical conditions on the site. Inspections of buildings do not include compliance with building, gas, electrical or boiler codes, or any other federal, provincial or municipal codes not associated with environmental concerns. Should concerns regarding any issue other than environmental matters arise as a result of our investigations, appropriately qualified professionals should address them.

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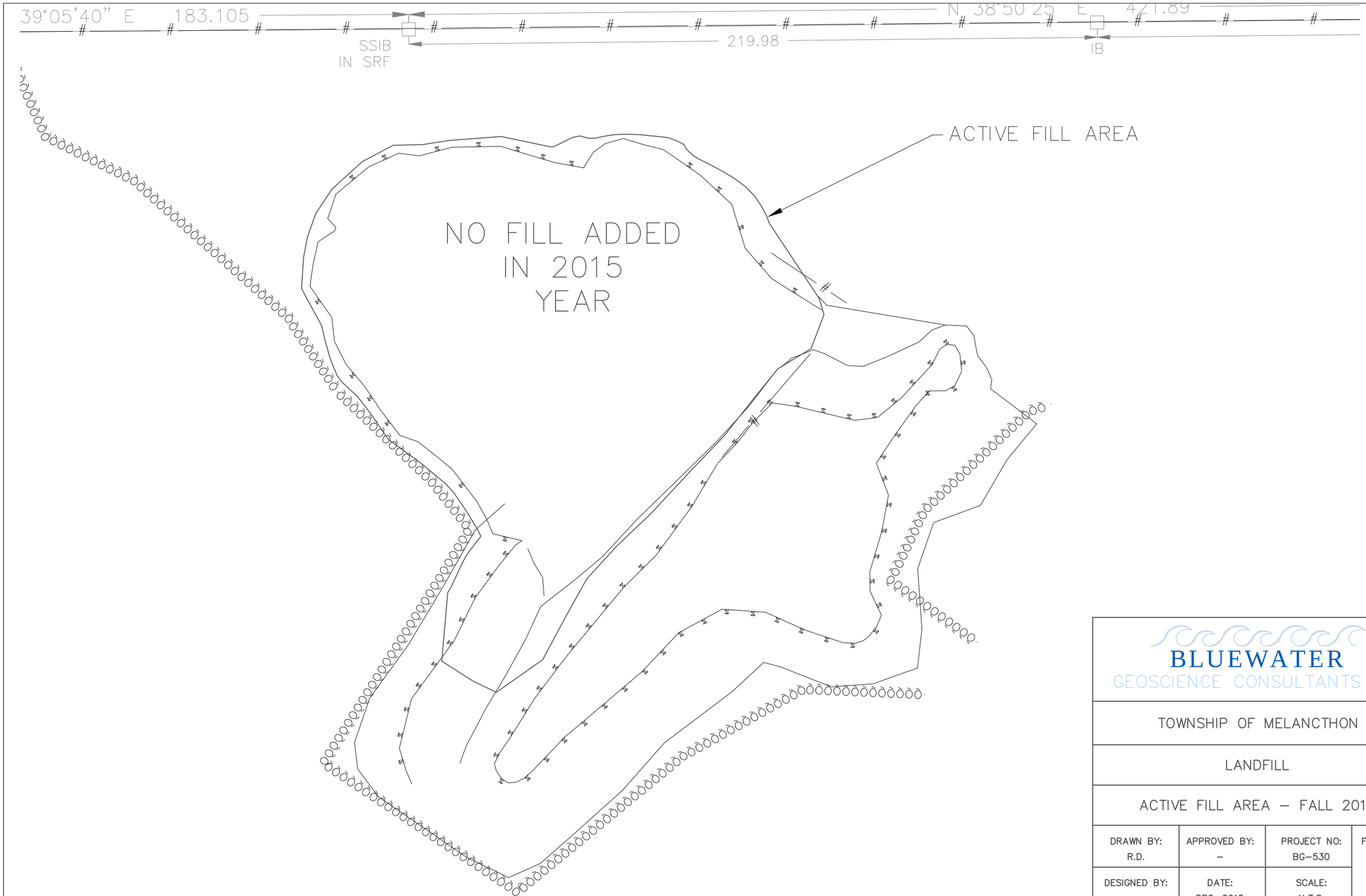
11.0 CLOSURE

Bluewater Geoscience Consultants Inc. operates under a Certificate of Authorization from The Association of Professional Geoscientists of Ontario (APGO). Breton Lemieux is a registered Qualified Person (QP) with MOE and is a licensed Professional Geoscientist with over twenty years of international environmental consulting experience. Mr. Lemieux has a Geologic Technologist Diploma from Fleming College in Lindsay, Ontario, an Honours Bachelor of Science degree in Geology from the University of the West Indies in Kingston, Jamaica and a Master of Science degree in Earth Sciences from the University of Waterloo. His experience includes conducting Phase I, II and III ESAs at a wide variety of contaminated sites, underground storage tank removal supervision, water supply development, environmental building science and other site and landfill environmental monitoring projects.

APPENDIX A

FIGURES



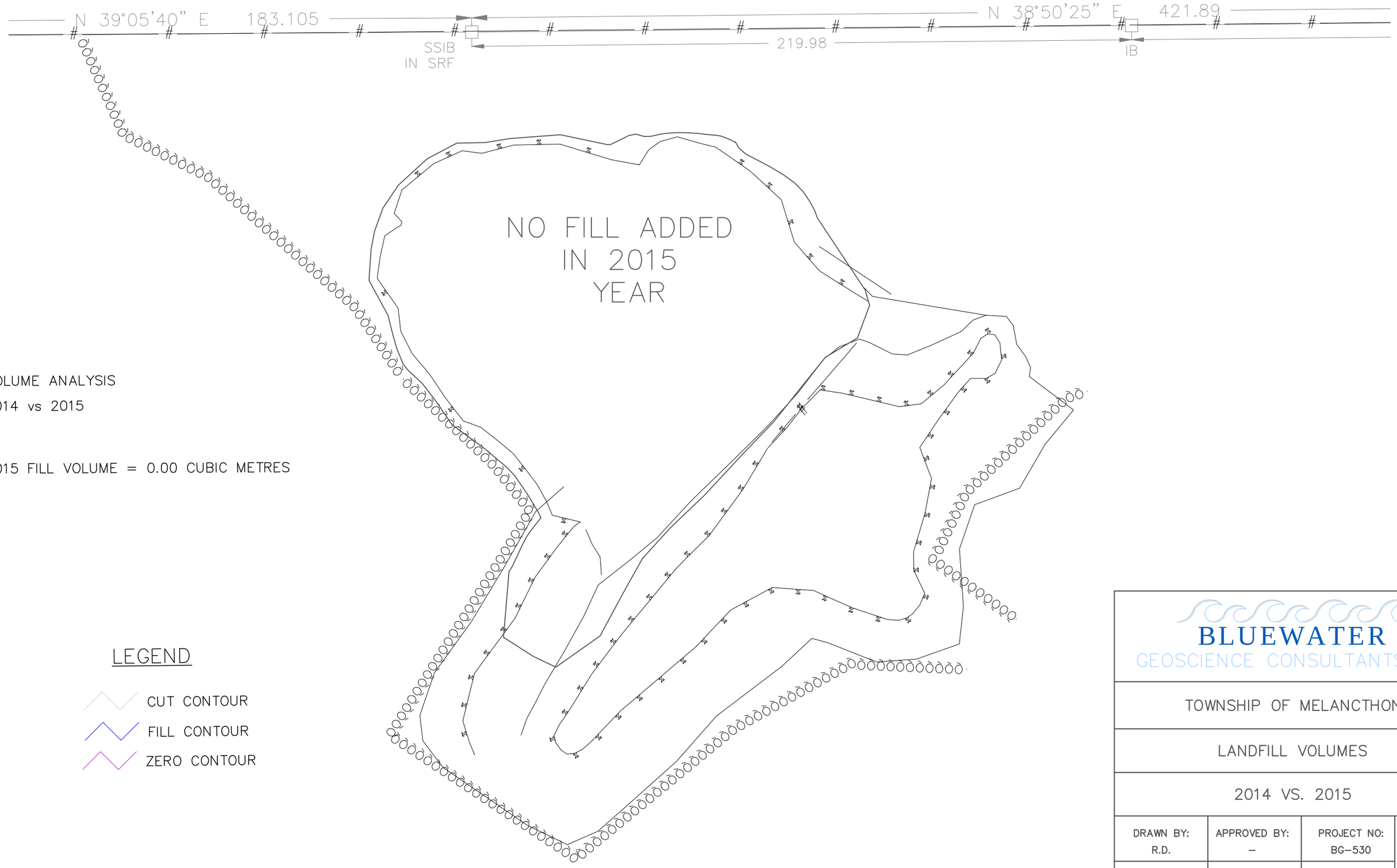
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON

LANDFILL

ACTIVE FILL AREA – FALL 2015

DRAWN BY: R.D.	APPROVED BY: –	PROJECT NO: BG–530	FIGURE NO. 1
DESIGNED BY: –	DATE: DEC. 2015	SCALE: N.T.S.	



VOLUME ANALYSIS

2014 vs 2015

2015 FILL VOLUME = 0.00 CUBIC METRES

LEGEND

CUT CONTOUR

FILL CONTOUR

ZERO CONTOUR

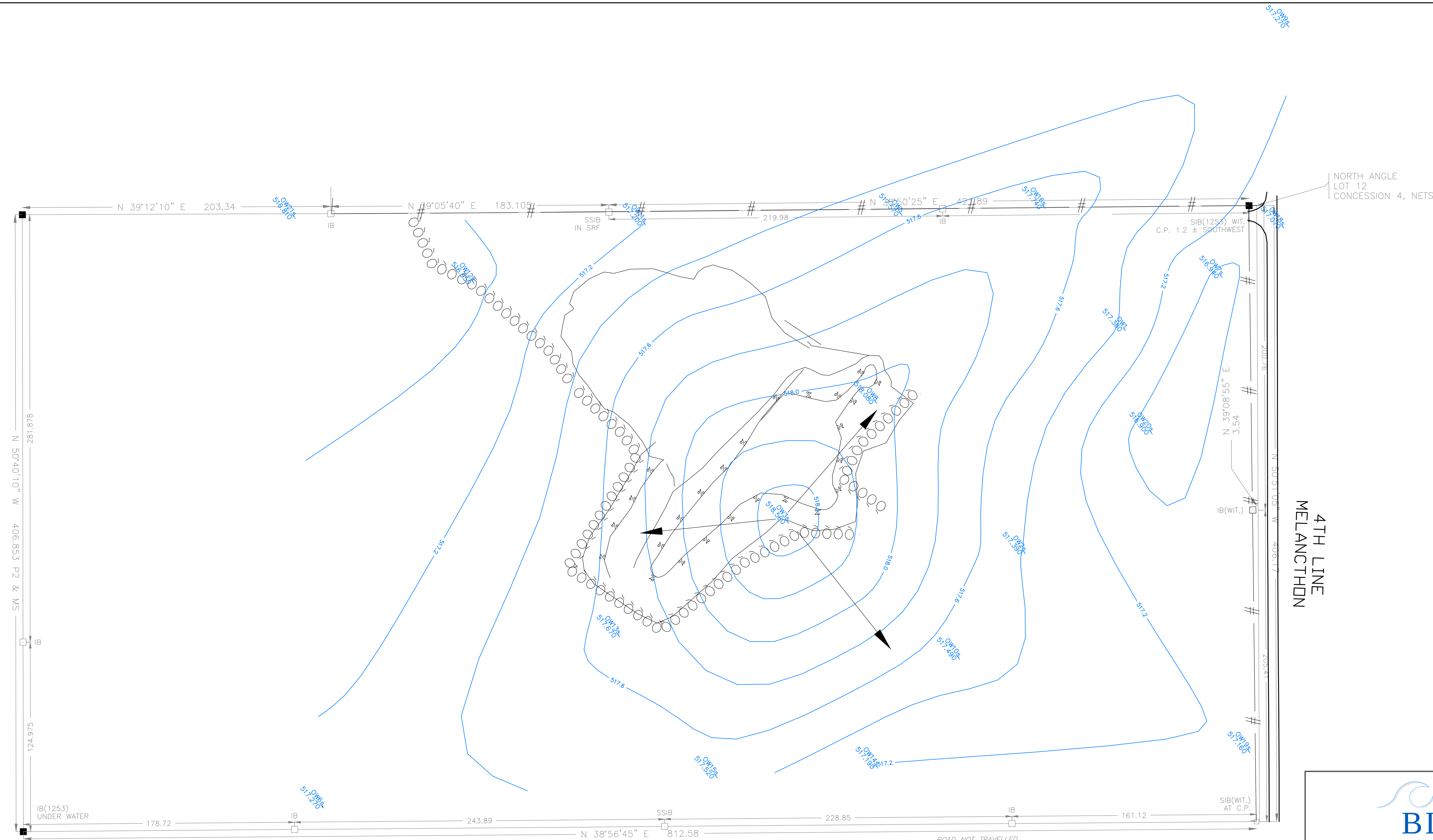
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON

LANDFILL VOLUMES

2014 VS. 2015

DRAWN BY:	APPROVED BY:	PROJECT NO:	FIGURE NO.
R.D.	–	BG–530	1
DESIGNED BY:	DATE:	SCALE:	
–	DEC. 2015	N.T.S.	



OW19d
519.000 — MONITOR WELL GROUNDWATER ELEVATION

519.110 — GROUNDWATER CONTOUR (0.2m INTERVAL)

→ GW FLOW DIRECTION

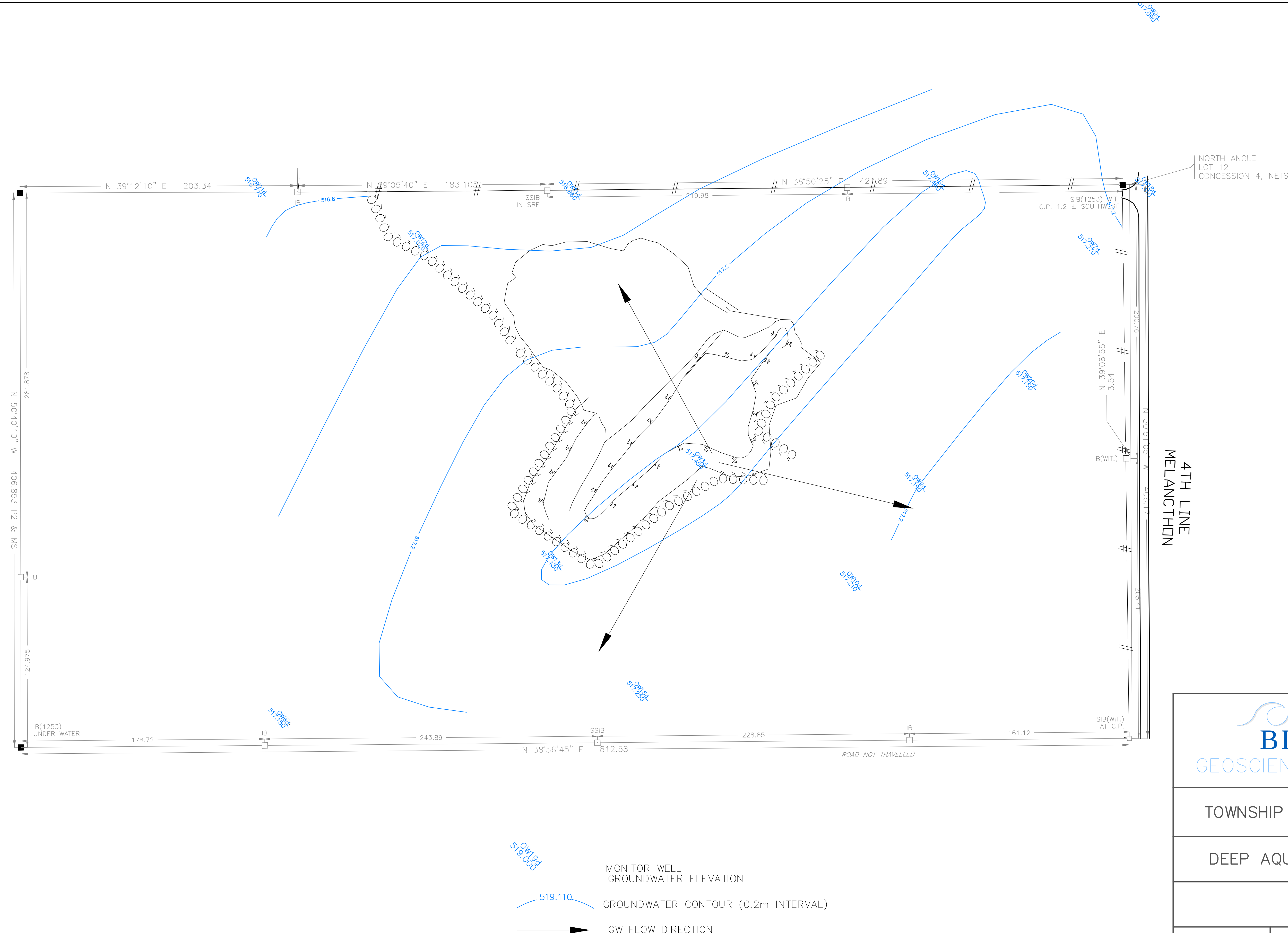
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

SHALLOW AQUIFER GROUNDWATER FLOW

SPRING 2015

DRAWN BY: R.D.	APPROVED BY: –	PROJECT NO: BG–530	FIGURE NO.
DESIGNED BY: –	DATE: DEC. 2015	SCALE: N.T.S.	2



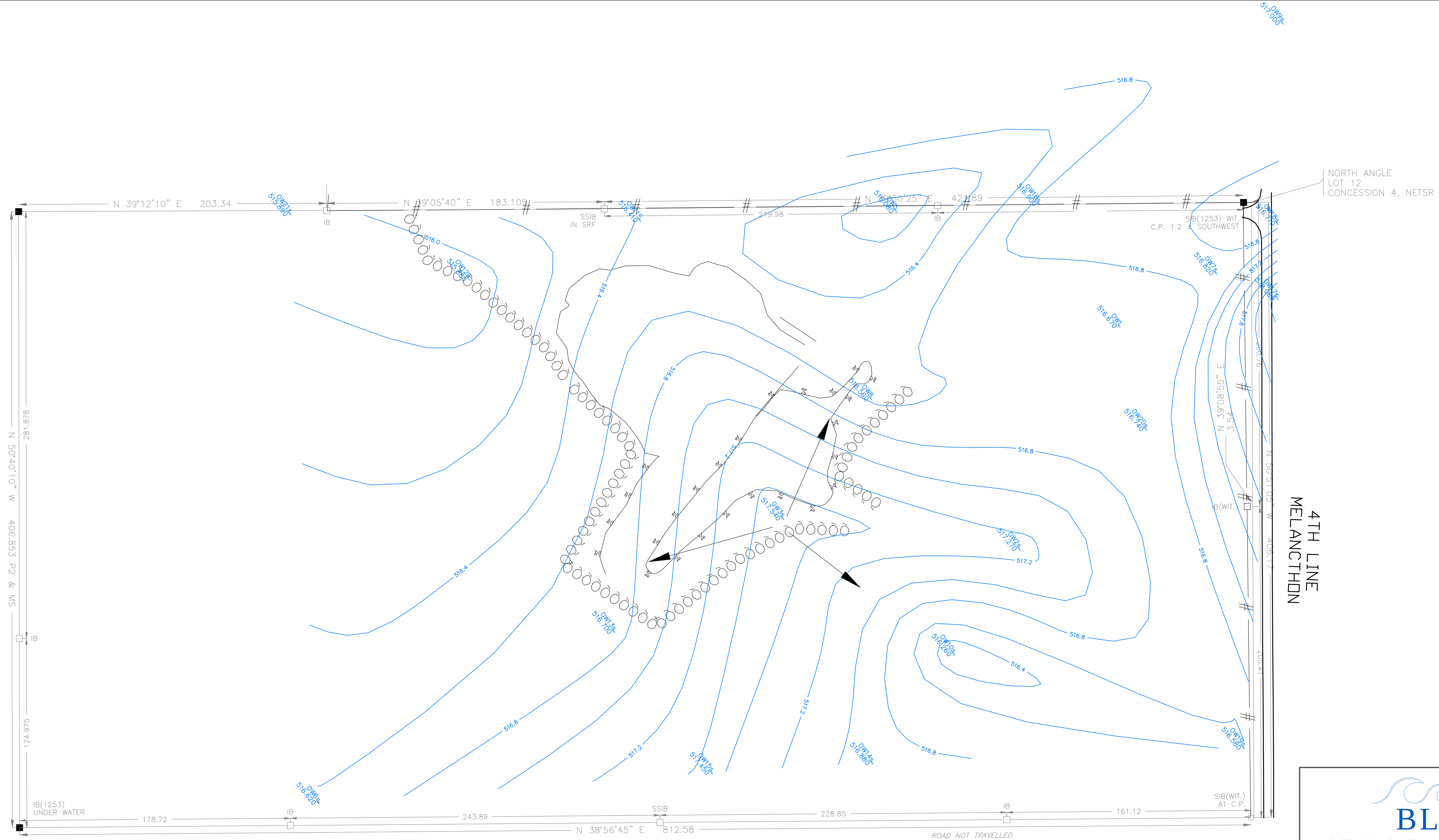
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

DEEP AQUIFER GROUNDWATER FLOW

SPRING 2015

DRAWN BY:	APPROVED BY:	PROJECT NO:	FIGURE NO.
R.D.	–	BG–530	3
DESIGNED BY:	DATE:	SCALE:	
–	DEC. 2015	N.T.S.	



OW19d
519.000

MONITOR WELL
GROUNDWATER ELEVATION

519.110 GROUNDWATER CONTOUR (0.2m INTERVAL)

GW FLOW DIRECTION

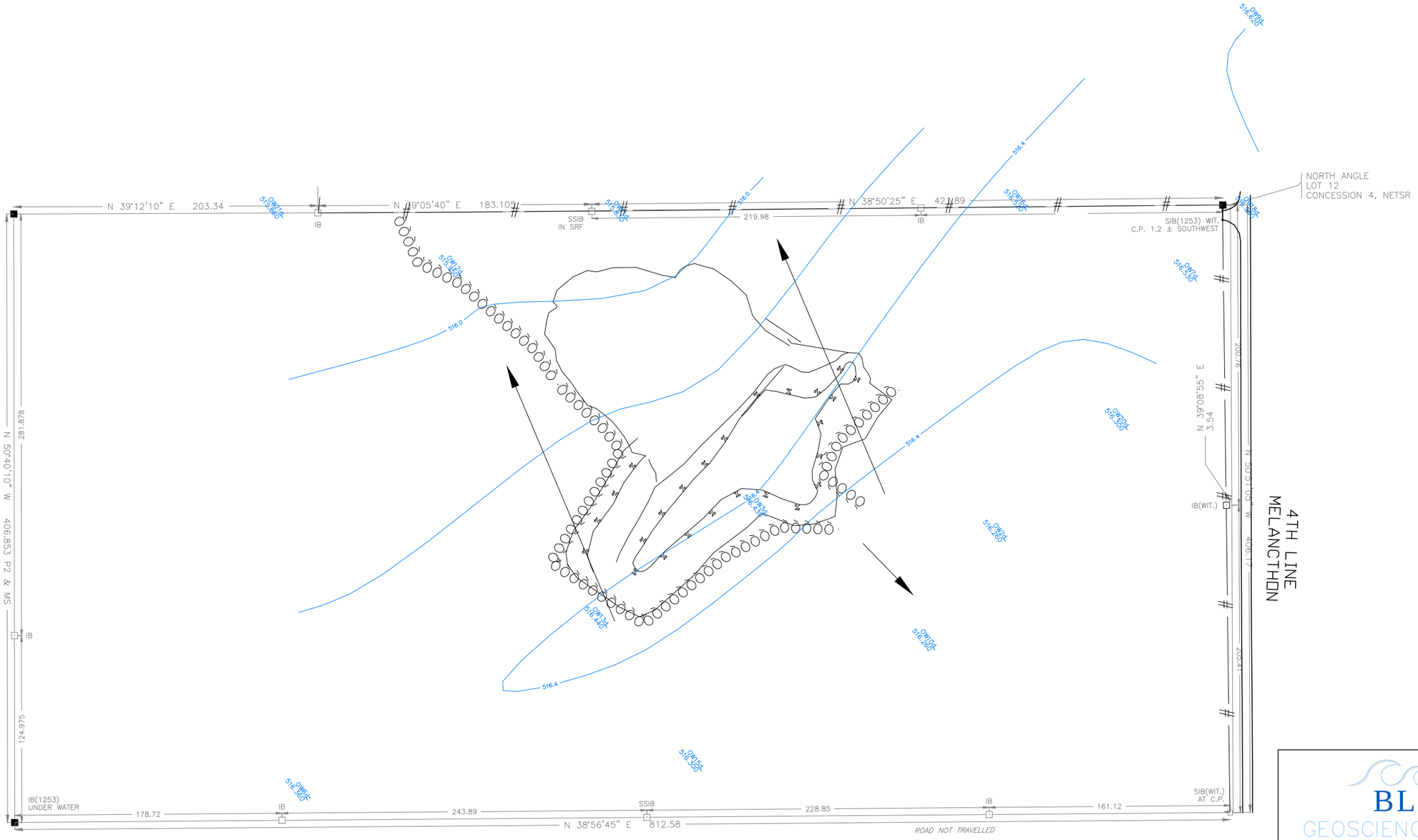
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

SHALLOW AQUIFER GROUNDWATER FLOW

FALL 2015

DRAWN BY: R.D.	APPROVED BY: –	PROJECT NO: BG–530	FIGURE NO. 4
DESIGNED BY: –	DATE: DEC. 2015	SCALE: N.T.S.	



MONITOR WELL
GROUNDWATER ELEVATION

519.110 GROUNDWATER CONTOUR (0.1m INTERVAL)

GW FLOW DIRECTION

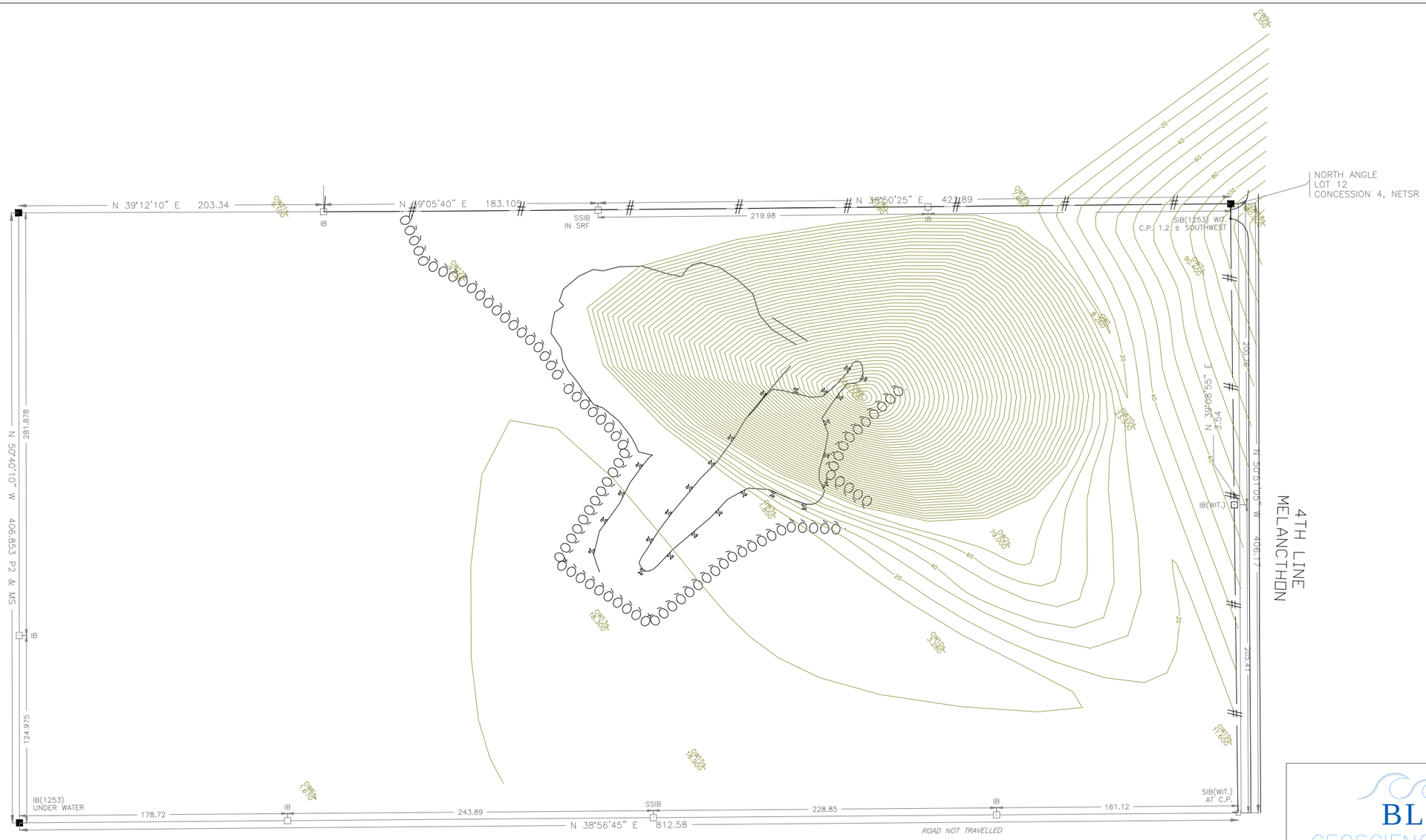
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

DEEP AQUIFER GROUNDWATER FLOW

FALL 2015

DRAWN BY:	APPROVED BY:	PROJECT NO:	FIGURE NO.
R.D.	–	BG–530	5
DESIGNED BY:	DATE:	SCALE:	
–	DEC. 2015	N.T.S.	



OW19d
15 MONITOR WELL
SULPHATE GW CONCENTRATION (mg/l)

20.0 SULPHATE GW CONTOUR (10mg/L INTERVAL)

BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

SULPHATE G.W. CONCENTRATION

SHALLOW AQUIFER – SPRING 2015

DRAWN BY:	APPROVED BY:	PROJECT NO:	FIGURE NO.
R.D.	–	BG–530	6
DESIGNED BY:	DATE:	SCALE:	
–	DEC. 2015	N.T.S.	

OW19d
15
MONITOR WELL
CHLORIDE GW CONCENTRATION (mg/L)

20.0
CHLORIDE GW CONTOUR (10mg/L INTERVAL)

BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

CHLORIDE G.W. CONCENTRATION

SHALLOW AQUIFER – SPRING 2015

DRAWN BY:	APPROVED BY:	PROJECT NO:	FIGURE NO.
R.D.	–	BG–530	7
DESIGNED BY:	DATE:	SCALE:	
–	DEC. 2015	N.T.S.	

OW19d MONITOR WELL
15 SULPHATE GW CONCENTRATION (mg/l)

20.0 SULPHATE GW CONTOUR (10mg/L INTERVAL)

BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

SULPHATE G.W. CONCENTRATION

DEEP AQUIFER – SPRING 2015

DRAWN BY:	APPROVED BY:	PROJECT NO:	FIGURE NO.
R.D.	–	BG-530	8
DESIGNED BY:	DATE:	SCALE:	
–	DEC. 2015	N.T.S.	

OW19d
15 — MONITOR WELL
CHLORIDE GW CONCENTRATION (mg/L)

20.0 — CHLORIDE GW CONTOUR (10mg/L INTERVAL)

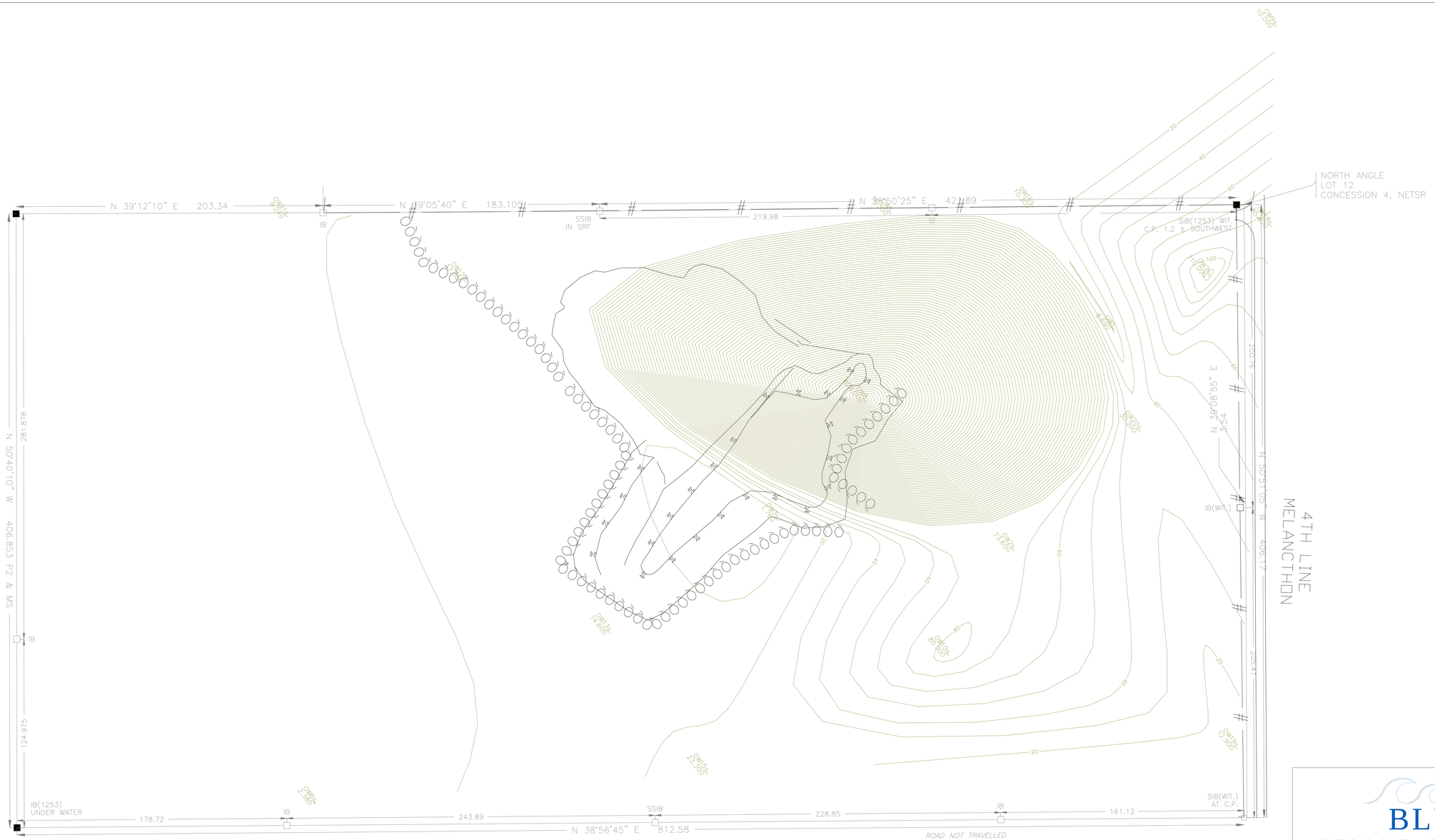
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

CHLORIDE G.W. CONCENTRATION

DEEP AQUIFER – SPRING 2015

DRAWN BY:	APPROVED BY:	PROJECT NO:	FIGURE NO.
R.D.	–	BG-530	9
DESIGNED BY:	DATE:	SCALE:	
–	DEC. 2015	N.T.S.	



OW19d
15

MONITOR WELL
SULPHATE GW CONCENTRATION (mg/l)

20.0

SULPHATE GW CONTOUR (10mg/L INTERVAL)

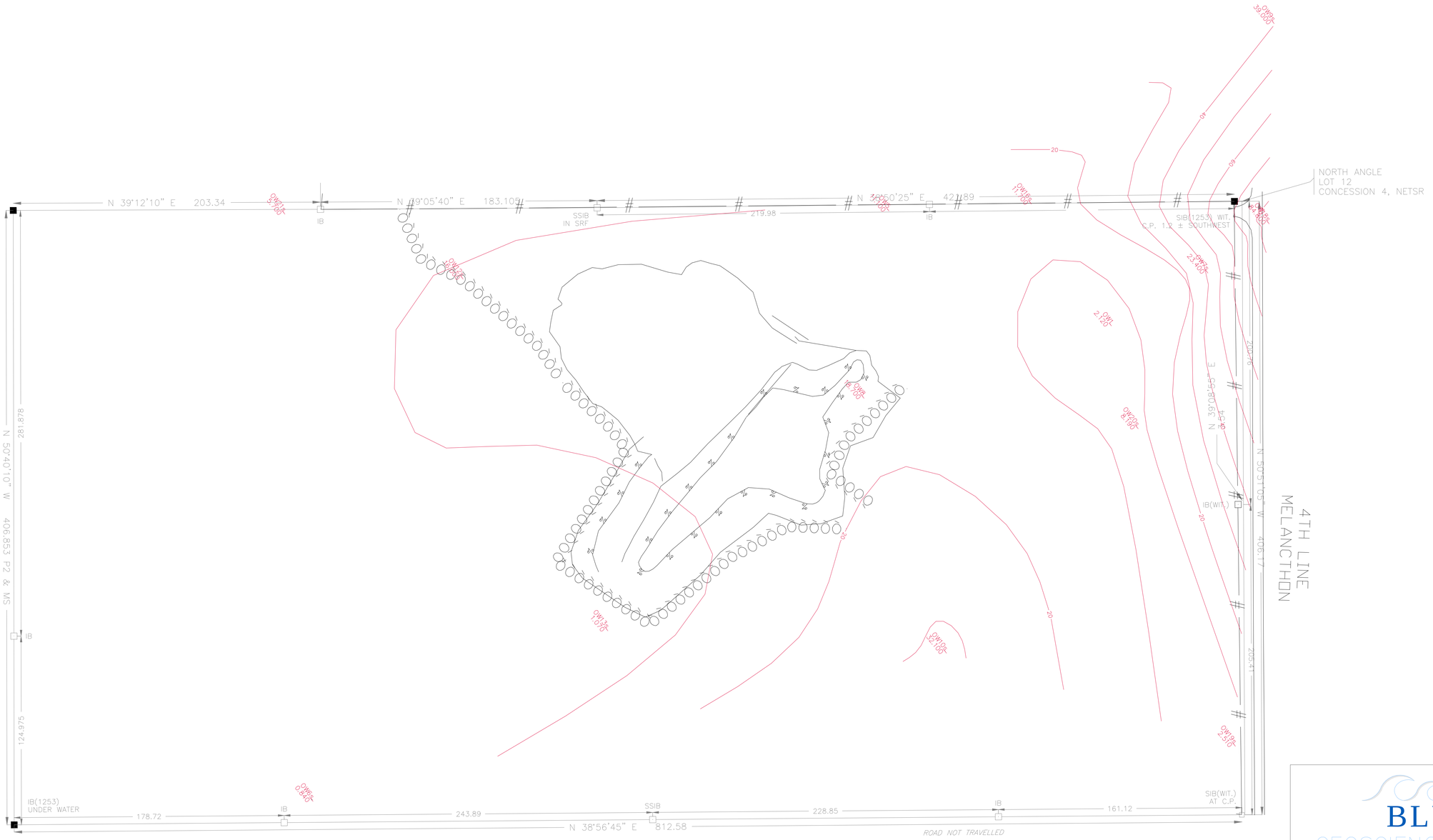
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

SULPHATE G.W. CONCENTRATION

SHALLOW AQUIFER – FALL 2015

DRAWN BY:	APPROVED BY:	PROJECT NO:	FIGURE NO.
R.D.	–	BG-530	10
DESIGNED BY:	DATE:	SCALE:	
–	DEC. 2015	N.T.S.	



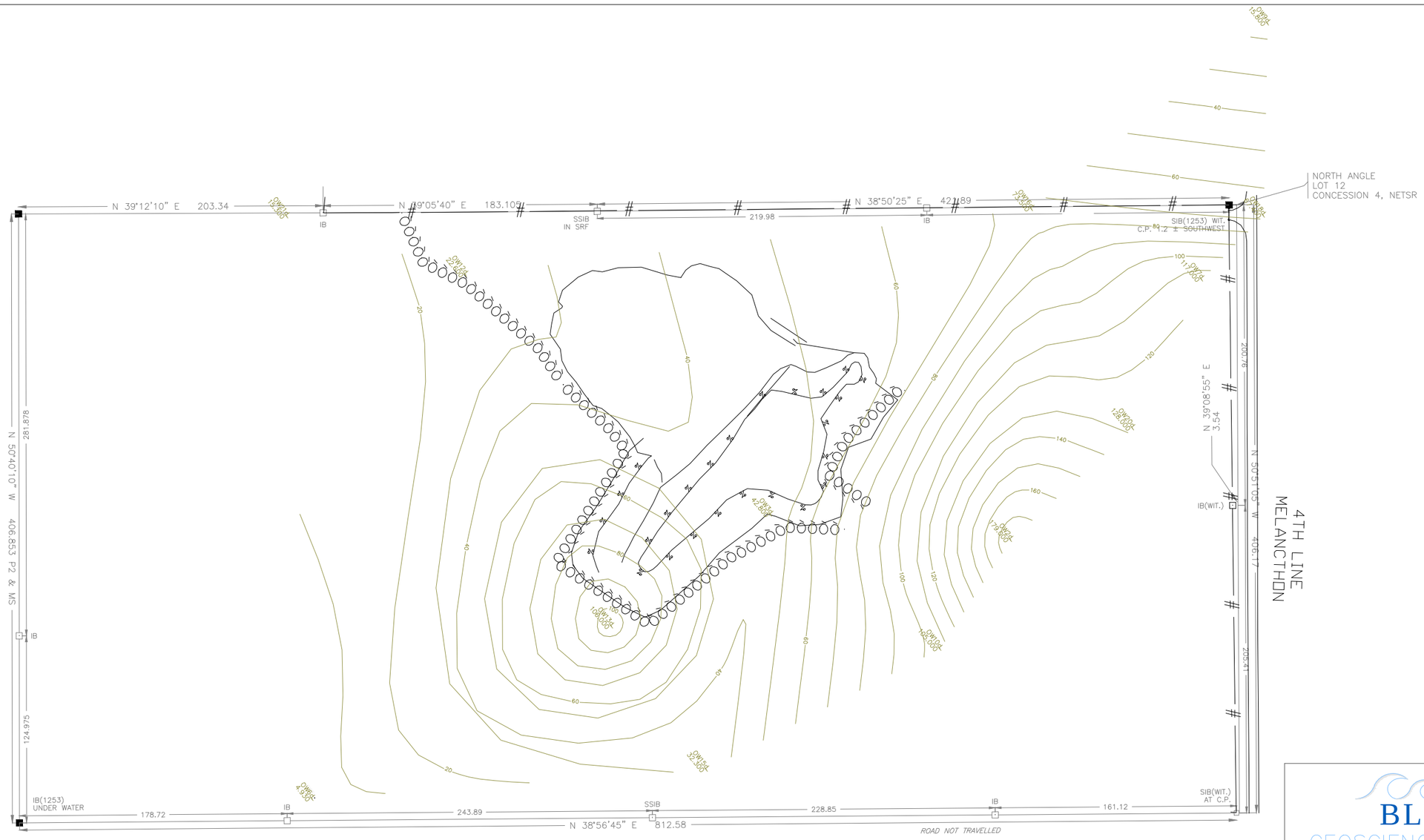
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

CHLORIDE G.W. CONCENTRATION

SHALLOW AQUIFER – FALL 2015

DRAWN BY:	APPROVED BY:	PROJECT NO:	FIGURE NO.
R.D.	–	BG-530	11
DESIGNED BY:	DATE:	SCALE:	
–	DEC. 2015	N.T.S.	



OW19d 15 — MONITOR WELL
SULPHATE GW CONCENTRATION (mg/l)

20.0 — SULPHATE GW CONTOUR (10mg/L INTERVAL)

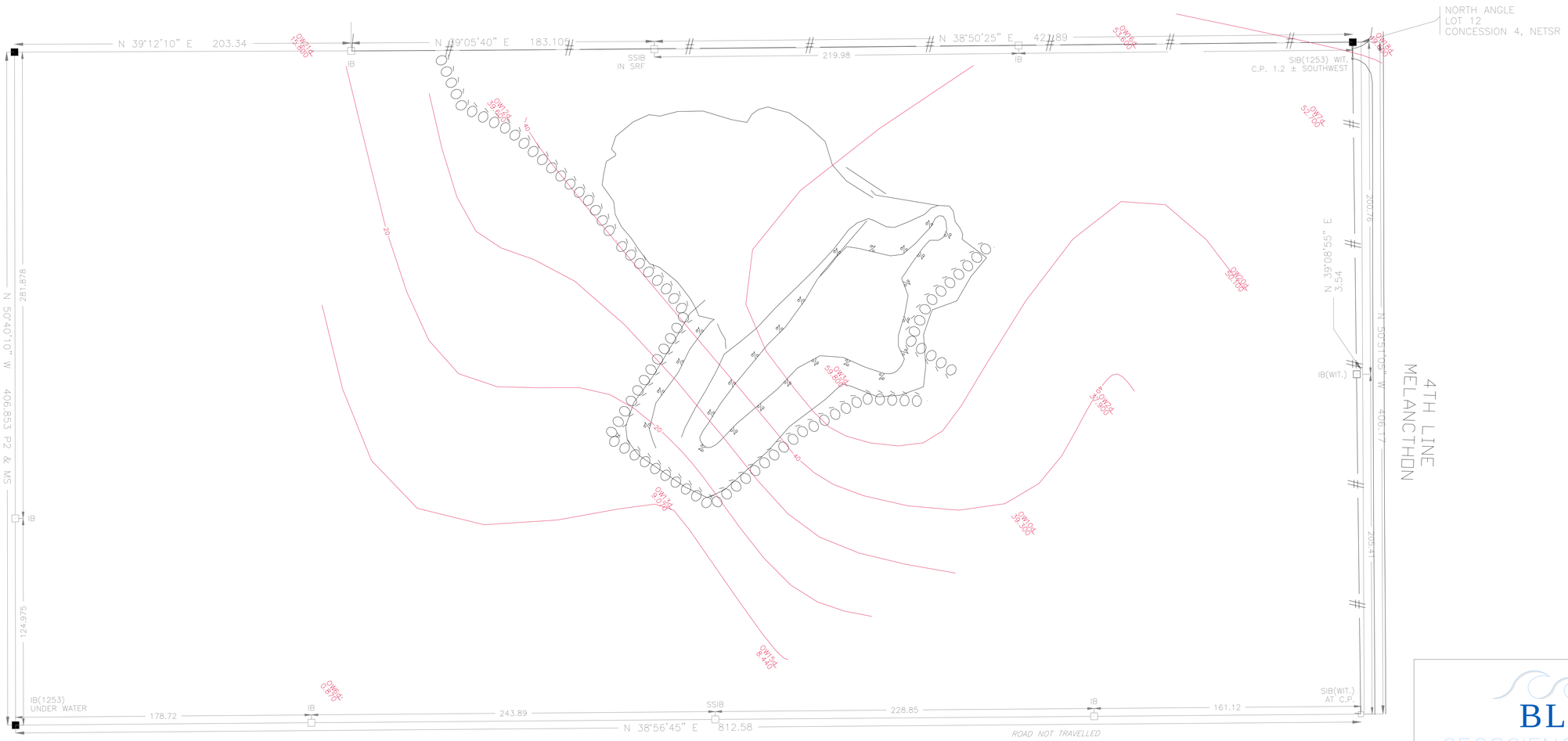
BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

SULPHATE G.W. CONCENTRATION

DEEP AQUIFER – FALL 2015

DRAWN BY:	APPROVED BY:	PROJECT NO:	FIGURE NO.
R.D.	–	BG–530	12
DESIGNED BY:	DATE:	SCALE:	
–	DEC. 2015	N.T.S.	



OW19d
15 — MONITOR WELL
CHLORIDE GW CONCENTRATION (mg/L)

20.0 — CHLORIDE GW CONTOUR (10mg/L INTERVAL)

BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

TOWNSHIP OF MELANCTHON LANDFILL

CHLORIDE G.W. CONCENTRATION

DEEP AQUIFER – FALL 2015

DRAWN BY:	APPROVED BY:	PROJECT NO:	FIGURE NO.
R.D.	–	BG-530	13
DESIGNED BY:	DATE:	SCALE:	
–	DEC. 2015	N.T.S.	

APPENDIX B

GROUNDWATER AND METHANE MONITORING

AND

LABORATORY ANALYSIS RESULTS TABLES

Table 1:
Groundwater Elevation Summary

Well	Ground Elevation	Measuring Pt. Elevation	15-Apr-03	23-Oct-03	15-Apr-04	13-Oct-04	26-May-05	13-Oct-05	20-Apr.'06	26-Oct'06	03-May-07	26-Oct.07	05/05/2008	30-Oct'08	1-May'09	27-Oct'09	6-May'10	10-Nov'10	10-May'11	31-Oct'11	21-May'12	24-Oct-'12	22-Apr-13	Oct. 2013	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
OW1	517.64	518.37	515.61	515.61	515.61	515.61	515.61	515.61	515.61	515.61	515.61	515.61	517.39	516.91	517.54	516.96	517.1	516.9	517.28	516.97	517.05	516.44	517.58	517.39	517.55	517.99	517.38	516.67
OW2S	517.59	518.45	516.645	516.506	516.59	515.3	516.43	514.655	516.52	516.52	516.5	514.44	517.51	517.38	517.56	517.42	517.5	517.45	517.39	517.31	517.12	517.14	517.48	517.43	517.48	517.48	517.39	517.27
OW2D	517.75	518.43	517.242	516.38	517.3	515.677	517	515.075	517.23	516.43	517.12	514.71	517.21	516.54	517.31	516.72	516.85	516.74	517.18	516.81	516.88	516.09	517.52	517.33	517.41	517.04	517.19	516.26
OW3S	519.41	518.25	517.845	516.995	517.445	515.685	517.49	515.43	517.25	517.25	517.16	515.49	516.2	515.55	516.39	515.65	518.22	518.22	NR	518.58	518.16	518.1	518.87	518.86	519.08	518.35	518.56	517.54
OW3D	519.54	520	517.5	516.6	517.508	515.891	517.218	515.28	517.43	516.55	517.35	514.94	517.4	516.71	517.51	516.87	517.04	516.9	517.37	516.97	517.12	516.23	517.72	517.5	518.51	517.17	517.45	516.43
OW4S	516.05	516.58	515.36	514.392	514.952	513.497	514.63	513.721	Destr.	Destr.	Destr.	Destr.	Destr.	Destr.	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr		
OW4D	515.98	516.53	515.145	514.114	514.778	513.13	514.465	512.883	Destr.	Destr.	Destr.	Destr.	Destr.	Destr.	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr	Destr		
OW5	519.14	520.13	516.844	515.597	516.699	515.007	516.22	514.56	516.62	516.62	516.47	Dry	517.56	516.66	517.79	516.86	516.89	516.84	517.45	517.25	517.18	516.07	518.1	517.8	517.82	517.22	517.17	516.08
OW6S	518.85	519.54	515.865	515.945	516.67	515.468	516.555	515.055	516.65	516.65	516.61	514.88	517.39	516.81	517.44	516.88	517.09	516.91	517.29	516.96	517.14	516.37	517.38	517.32	517.39	517.16	517.27	516.62
OW6D	518.77	519.41	517.22	516.493	517.29	515.839	517.085	515.36	517.23	516.56	517.18	514.72	517.27	516.68	517.35	516.76	516.91	516.77	517.17	516.91	516.97	516.24	517.34	517.25	517.29	517.06	517.15	516.36
OW7S	518.01	518.91	516.116	515.99	516.065	515.075	515.98	514.735	516.01	516.01	516.01	514.4	516.96	516.89	517.06	516.91	516.9	516.86	516.91	516.9	516.81	516.66	516.96	516.96	517.31	516.97	516.94	516.82
OW7D	518.09	518.76	517.34	516.636	517.36	515.92	517.08	515.36	517.26	516.6	517.19	515.02	517.22	516.72	517.33	516.84	516.94	516.86	517.21	516.9	517.01	516.32	517.6	517.31	517.5	517.06	517.27	516.53
OW8	520.5	521.03	517.08	516.134	517.1	516.028	516.787	515.83	517.03	517.03	516.92	Dry	517.49	516.79	517.58	516.93	517.11	517.01	517.47	516.97	517.25	516.42	517.9	517.56	517.84	517.18	518.08	516.56
OW9S	517.33	518.1	516.2	516.01	516.565	515.2	516.233	514.9	516.465	516.465	516.44	514.46	517.43	517.17	517.54	517.24	517.24	517.03	517.19	517.21	51.87	516.7	517.45	517.36	517.4	517.33	517.27	517
OW9D	517.35	518.16	517.24	516.787	517.15	515.893	516.935	515.34	517.04	516.71	517.02	514.96	517.06	516.77	517.19	516.87	516.9	516.86	517.04	516.9	516.88	516.41	517.34	517.16	517.24	517.02	517.09	516.62
OW10S	517.76	518.47	516.825	516.707	516.813	514.98	516.68	514.34	516.76	516.76	516.79	514.01	517.57	517.32	517.64	517.44	517.53	517.37	517.48	517.39	517.07	516.15	517.51	517.51	517.52	517.47	517.49	516.26
OW10D	517.74	518.41	515.413	516.426	517.315	515.675	517.007	515.07	517.235	516.44	517.15	514.71	517.22	516.55	517.33	516.73	516.87	516.76	517.19	516.82	517.77	516.09	517.54	517.35	517.5	517.07	517.21	516.26
OW11S	518.02	519.17	516.465	Dry	516.139	Dry	515.65	515.27	516.12	516.12	515.99	Dry	517.33	516.83	517.61	516.92	516.64	516.65	517.07	517.25	516.78	dry	517.65	517.59	517.44	517.15	517.2	516.41
OW11D	518.05	519.08	517.163	516.163	516.995	515.23	516.58	514.54	516.96	516.26	516.84	514.19	516.92	516.33	517.19	516.49	516.41	516.43	516.82	516.8	516.54	515.91	517.3	517.21	517.08	516.8	516.86	515.83
OW12S	517.15	518.36	515.968	515.135	515.813	513.988	515.4	513.3	515.775	515.775	515.68	Dry	516.96	516.51	517.14	516.63	516.52	516.56	516.88	517.03	516.61	516.08	517.14	517.15	517.06	516.97	516.95	515.88
OW12D	517.13	518.39	517.19	516.403	517.04	515.215	516.645	514.54	517.02	516.42	516.93	514.2	517	516.56	517.2	516.69	516.57	516.61	516.94	517.09	516.65	516.12	517.2	517.21	517.11	517.02	517.02	515.95
OW13S	518.52	519.33	516.875	515.942	516.86	515.29	516.6	514.55	516.82	516.82	516.77	514.23	517.68	517.02	517.82	517.17	517.37	517.11	517.59	517.25	517.31	516.41	517.81	517.68	517.79	517.44	517.67	516.7
OW13D	518.41	519.09	517.485	516.624	517.49	515.882	517.215	515.27	517.527	517.58	517.34	514.95	517.42	516.74	517.51	516.89	517.05	516.9	517.36	516.99	517.1	516.25	517.67	517.5	517.6	517.21	517.43	516.44
OW14S	517.38	518.42	515.6	516.124	516.18	514.697	516.073	513.69	516.12	516.12	516.12	Dry	517.23	517.14	517.31	517.17	517.21	517.12	517.15	517.13	516.85	516.98	517.2	517.18	517.2	517.19	517.19	516.88
OW15S	517.66	518.6	516.37	516.584	516.605	514.91	516.525	513.92	516.56	516.56	516.55	513.46	517.54	517.49	517.56	517.51	517.53	517.48	517.5	517.48	517.34	517.36	517.54	517.53	517.54	517.53	517.52	517.45
OW15D	517.54	518.74	516.5	516.467	517.355	515.707	517.05	515.1	517.265	516.46	517.19	514.75	517.27	516.59	517.36	516.76	516.91	516.79	517.23	51.86	516.94	516.12	517.57	517.38	517.47	517.1	517.25	516.3
OW16S	518.49	519.57	516.87	516.322	516.807	515.287	516.355	514.955	516.7	516.7	516.66	514.64	517.97	517.26	518.07	517.3	517.23	517.13	517.55	517.51	517.31	515.77	517.97	517.91	517.91	517.65	517.74	516.9
OW16D	518.63	519.65	516.655	516.654	517.512	515.943	517.18	515.375	517.43	517.6	517.33	515.05	517.36	516.77	517.51	516.9	517.03	516.91	517.37	516.99	517.15	516.32	517.82	517.48	517.71	517.15	517.46	516.52
OW17S	516.99	518.08	515.96	515.661	515.955	515.106	515.845	514.72	515.89	515.89	515.87	514.58	516.98	516.78	517.08	516.85	516.92	516.85	517.06	516.86	516.94	516.46	517.26	517.15	517.22	517.01	Destr	Destr
OW18S	517.42	518.52	516.044	515.646	515.985	514.898	515.84	514.34	515.89	515.89	515.89	514.09	517.03	516.8	517.16	516.88	516.94	516.88	517.02	506.88	516.92	516.52	517.2	517.09	517.15	516.99	517.07	516.71
OW18D	517.76	518.69	517.15	516.39	517.17	515.914	516.955	515.36	517.05	516.64	517.03	515.02	517.05	516.72	517.17	516.82	516.89	516.83	516.85	516.84	516.91	516.38	517.41	517.14	517.3	516.98	517.11	516.59
OW-19S	516.82	517.89								515.56	515.65	514.84	516.69	516.65	516.84	516.76	516.93	516.74	517.14	516.7	516.95	516.48	516.77	516.77	517.29	517.11	517.16	516.58
OW-19D	516.79	517.72											516.98	516.56	517.08	516.69	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R		
OW-20S	516.81	517.7								515.94	515.99	514.72	516.9	516.77	516.95	516.75	516.89	516.85	51.89	516.87	516.8	516.73	516.9	516.92	516.92	516.91	516.9	516.74
OW-20D	516.87	517.52								516.45	517.15	514.8	517.17	516.56	517.29	516.72	516.83	516.74	517.15	516.77	516.88	516.13	517.47	517.31	517.32	517.02	517.15	516.3
OW-21S	517.01	518.03								515.46	516.012	513.17	516.88	516.51	517.04	516.6	516.52	516.52	516.77	516.89	516.53	516.05	517	517.01	516.9	516.83	516.81	515.89
OW-21D	517.15	517.89								516.33	516.72	514.09	516.79	516.44	516.89	516.54	516.45	516.46	51.71	516.84	516.48	516.01	516.97	516.96	516.85	516.79	516.77	515.86

BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

Table 2:
Headspace Methane Concentrations

	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc.(ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)	Methane Conc. (ppm)
Well	03-May-07	26-Oct.07	05-May-08	30-Oct-08	01-May-09	27-Oct-09	6-May'10	10-Nov'10	10-May'11	31-Oct'11	21-May-'12	24-Oct-'12	22-Apr-13	04-Nov-13	28-Apr-14	22-Oct-14	28-Apr-14	22-Oct-14
OW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW2S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW2D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW3S	10	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0
OW3D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW4S	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroted	Destroyed	Destroted	Destroyed	Destroted
OW4D	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed
OW5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW6S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW6D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW7S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW7D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW8	15	0	0	0	0	0	0	0	10	10	15	10	15	10	25	15	20	10
OW9S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW9D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW10S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW10D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW11S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW11D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW12S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW12D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW13S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW13D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW14S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW15S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW15D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW16S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW16D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW17S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Destroyed	Destroyed
OW18S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW18D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW-19S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW-20S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW-20D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW021S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OW-21D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

BLUEWATER
GEOSCIENCE CONSULTANTS Inc.

Well ID				OW1															
Data Sampled				06-May-08	30-Oct-08	01-May-09	28-Oct-09	06-May-10	10-Nov-10	10-May-11	01-Dec-11	21/5/2012	24/10/2012	24-Apr-13	04-Nov-13	28-Apr-14	Oct. 22, 2014	Apr. 29'15	Nov.4'15
Parameter	**ODWS**	**SCS**	**RUP**																
Alkalinity, Total (mg/L)	30-500	N/V	391.5	**400**	370	374	384	392	397	432	414	406	402	424	405	432	402	446	406
Ammonia as N																			
Ammonia as N (mg/L)	N/V	N/V	N/V	<0.05	0.07	0.054	<0.05	0.087	<0.05	<0.05	<0.05	0.195	0.177	<0.05	<0.05	<0.05	0.06	<0.05	<0.05
CL,F,NO2,NO3,SO4																			
Chloride (mg/L)	250	250	125.5	10	12	3.6	4	4.1	3.9	2	3.6	3.7	3.9	3.5	3.1	6.5	3.5	2	2.12
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	0.034	0.028
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	0.1	<0.10	<0.10	<0.1	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	0.4	0.3	0.18	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	>0.1	<0.10	<0.10	<0.1	0.028	0.026
Sulphate (mg/L)	500	N/V	253.9	36	23	16.4	14.5	14.9	11.6	8.5	10.9	12.2	12.8	11.6	11.2000	19.6	1.8	8.26	8.69
Color, Apparent																			
Color, Apparent (C.U.)	5	N/V	N/V	31	27	32.8	27.9	29.9	26.6	15.6	8.8	13	6.8	12.3	21.8	25.2	25.2	61	46.3
Conductivity																			
Conductivity (umhos/cm)	N/V	N/V	N/V	758	715	682	685	716	702	729	713	726	687	720	727	760	760	724	721
Hardness (as CaCO3)																			
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**450**	**430**	**406**	**375**	**414**	**400**	**462**	**393**	397	463	469	420	461	440	434	382
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.01	0.01	<0.010	<0.010	<0.010	0.01	0.01	<0.010	0.018	<0.010	<0.010	<0.010	0.01	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	0.005	0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.005	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	0.001	0.001	<0.0010	<0.0010	0.0028	<0.0010	0.0014	0.001	0.0011	<0.0010	<0.0010
Barium (Ba)-Total	1	1	N/V	0.03	0.05	0.035	0.038	0.039	0.01	0.01	0.03	0.039	0.05	0.048	0.045	0.01	0.042	0.039	0.033
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	0.001	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	0.001	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.06	<0.05	0.062	<0.050	0.058	0.05	0.05	<0.050	0.061	0.066	0.061	0.061	0.05	0.067	0.055	<0.050
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	0.0001	0.0001	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	0.00009	0.000268	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	117	111	103	93	106	0.5	0.5	103	102	121	121	107	0.5	112	109	97.8
Chromium (Cr)-Total	0.05	0.05	N/V	0.004	<0.001	0.0021	<0.0010	<0.0010	0.001	0.001	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	0.0005	<0.00050	<0.00050	0.00080
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	0.0005	0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0005	<0.00050	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	0.008	<0.001	0.0011	0.0019	<0.0010	0.001	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	0.12	<0.050	<0.050	0.238	0.05	0.05	<0.050	0.422	1.06	0.563	0.780	0.05	0.826	0.347	0.060
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	0.001	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	38.7	36.6	36	34.8	36.5	0.5	0.5	32.7	34.3	38.8	40.7	36.8	0.5	38.8	39.6	33.5
Manganese (Mn)-Total	0.05	N/V	0.09	0.003	0.071	0.0604	0.0121	0.0815	0.001	0.001	0.0096	0.103	0.101	0.118	0.0927	0.001	0.0669	0.0864	0.0047
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	0.001	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.004	0.005	0.0035	0.004	<0.0020	0.002	0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.002	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	0.05	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	0.05	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	2	1	1.2	<1.0	2	1	1	<1.0	1.8	1.5	1.4	2.1	1	1.8	1.6	<1.0
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	0.005	0.005	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	0.0004	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	10.4	8	7.56	6.38	4.5	1	1	4.8	4.6	5.6	4.9	5.5	1	5.7	4.9	5.1
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	0.0001	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0001	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	12.9	8.8	7.8	6.33	7.71	0.5	0.5	5.79	6.61	7.67	6.40	9.11	0.5	7.17	6.69	7.49
Strontium (Sr)-Total	N/V	N/V	N/V	0.142	0.154	0.14	0.134	0.155	0.001	0.001	0.145	0.146	0.171	0.164	0.133	0.001	0.155	0.158	0.133
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	0.0003	0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.0003	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	0.001	0.001	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	<0.0020	0.002	0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.002	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	0.01	0.01	<0.010	<0.010	<0.010	<0.010	<0.010	0.01	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	0.005	0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.005	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.008	0.004	0.0062	0.0022	<0.0010	0.001	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.058	0.036	0.011	0.0159	0.013	0.003	0.003	0.004	0.0437	0.0031	0.0094	0.0111	0.003	0.0074	0.0071	0.0077
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	1.01	<0.0040	<0.0040	<0.0040	0.004	0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.004	<0.0040	<0.0040	<0.0040
Phosphate-P (ortho)	N/V	N/V	N/V	NT	0.005	0.004	<0.003	0.0038	0.0037	0.0036	0.0036	<0.0030	<0.0030					<0.003	<0.003
pH																			
pH (pH units)	6.5-8.5	N/V	8.2	7.35	7.79	7.82	7.9	7.78	8.05	7.89	7.6	7.66	8.18	7.73	7.71			7.88	7.78
Turbidity																			
Turbidity (NTU)	1	N/V	N/V	**6.2**	**5.5**	**8**	**8.2**	13.7	3.2	9.6	4.2	3.5	1.84	7.3	1.48	9.16	13.2	17.6	62.2
Total Dissolved Solids (mg/L)	N/V	N/V	394	NT	**440**	**400**	**420**	390	384	398	398	404	408	400	410	440	388	393	360
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW2S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	05/06/2010	11/10/2010	10-May-11	01-Dec-11	21/05/2012	24/10/2012	23-Apr-13	04-Nov-13	28-Apr-04	Oct. 22, 2014	29-Apr-15	NOV. 04, 2015
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	610	**500**	24.2	22.8	33.4	11.6	**8.7**	**28.8**	40.2	8.4	14.2	28.9	28.1	21.6	65.3	31
Conductivity (umhos/cm)	N/V	N/V	N/V	1390	1340	1360	1360	1330	1290	1360	1310	1330	1090	1160	1280	1270	1070	1250	1240
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	0.07	0.16	789	762	759	667	761	695	745	777	744	670	714		679	655
pH (pH units)	6.5-8.5	N/V	8.2	7.49	7.54	7.59	7.73	7.55	7.76	7.61	7.83	7.39	7.79	7.59	7.33	7.4	7.71	7.59	7.47
Total Dissolved Solids (mg/L)	N/V	N/V	394	880	**920**	908	868	890	864	888	846	824	818	804	800	775	388	732	678
Turbidity (NTU)	1	N/V	N/V	**8.5**	**7.5**	9.3	2.4	8.6	6.3	5.4	8.8	81	2.5	5.64	171	5.51	13.2	18.7	88.5
Alkalinity, Total (mg/L)	30-500	N/V	391.5	610	**500**	593	603	668	647	**640**	**656**	669	667	708	680	656	645	720	649
Ammonia as N (mg/L)	N/V	N/V	N/V	0.07	0.16	0.056	<0.050	0.133	<0.05	<0.050	0.07	<0.05	0.079	0.068	<0.05	<0.050	0.057	<0.05	<0.05
Chloride (mg/L)	250	250	125.5	22	26	14.3	13.3	12	10.4	9	7.6	8	4.2	4.5	<10	<10	2.5	1.57	<2.5
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.50	<0.10	0.028	<0.1
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	**<0.3**	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.50	<0.10	<0.01	<0.05
Nitrate-N (mg/L)	10	10	2.6	<0.1	0.4	<0.1	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.50	<0.10	<0.02	<0.1
Phosphate-P (ortho)	N/V	N/V	N/V	0.005	0.009	0.0041	0.003	0.0037	0.004	0.0043	0.0034	0.0049	0.0037	0.0034	0.0031	0.039	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	202	179	169	162	170	145	146	133	132	117	120	103	103	90.2	79	73.6
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	<0.01	0.043	0.029	<0.010	<0.010	0.093	<0.010	<0.010	<0.010	<0.010	<0.010	0.01	<0.010	<0.010	0.030
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.005	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.001	0.001	<0.0010	0.0021	<0.0010	0.0011	0.0023	0.0012	0.0014	<0.0010	0.0017	<0.0010	0.001	<0.0010	0.0014	<0.0010
Barium (Ba)-Total	1	1	N/V	0.07	0.08	0.085	0.097	0.082	0.095	0.095	0.089	0.091	0.084	0.098	0.050	0.01	0.072	0.076	0.064
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.35	0.46	0.495	0.654	0.487	0.581	0.467	0.46	0.531	0.597	0.453	0.440	0.05	0.519	0.444	0.443
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	0.00009	0.000120	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	194	192	174	162	171	144	181	153	162	169	165	154	0.5	156	150	148
Chromium (Cr)-Total	0.05	0.05	N/V	0.007	0.004	0.0035	0.002	<0.0010	<0.0010	0.0019	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	0.0005	<0.00050	<0.00050	0.00062
Cobalt (Co)-Total	N/V	0.1	N/V	0.0006	0.0006	0.00133	0.00182	<0.00050	<0.00050	0.00173	0.00109	0.0014	0.00063	0.00190	<0.00050	0.0005	0.00091	0.00141	0.00050
Copper (Cu)-Total	1	0.023	0.5007	0.002	<0.001	0.0014	0.0024	<0.0010	<0.0010	<0.0010	0.0018	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	0.11	0.216	0.491	0.385	0.290	0.867	0.456	0.535	0.171	0.703	<0.050	0.05	0.549	0.690	0.401
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	0.0024	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	96.4	88.1	86.3	86.7	80.9	74.8	74.9	76.2	82.5 *	86.1 *	80.8	69.6	0.5	75.8	73.8	69.2
Manganese (Mn)-Total	0.05	N/V	0.09	0.117	0.079	0.201	0.306	0.244	0.269	0.29	0.259	0.301	0.214	0.369	0.0884	0.001	0.160	0.205	0.162
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.009	0.009	0.0086	0.0094	<0.0020	0.0058	0.0047	0.0035	0.0043	0.0029	0.0058	<0.0020	0.002	<0.0020	0.0037	0.0021
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.05	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	1	2	1.6	2.6	2	2.2	2.9	2.2	2.6	3.7	2.9	<1.0	1	1.7	2.1	1.4
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	0.0004	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	19.1	12.9	12.4	10.3	6.5	6.4	10.3	7.8	8.2	8.7	7.8	8.3	1	9.2	7.7	8.5
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0001	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	18.9	20	22.1	22.1	21.5	18.8	20.9	17.2	19.6	22.5	21.5	15.2	0.5	20.4	21.1	14.3
Strontium (Sr)-Total	N/V	N/V	N/V	0.219	0.227	0.22	0.237	0.228	0.222	0.241	0.235	0.225	0.25	0.220	0.172	0.001	0.222	0.250	0.201
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.00039	<0.00030	0.0003	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	0.0022	<0.0020	0.0024	0.0027	0.0023	<0.0020	0.0022	<0.0020	<0.0020	<0.0020	0.002	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.01	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.005	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.016	0.005	0.0104	0.0063	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.011	0.006	0.0734	0.0238	0.0076	0.0062	0.139	0.0073	0.0058	0.0054	0.0058	0.0046	0.003	0.0059	0.0094	0.0046
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.004	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW2D															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	11/10/2010	10-May-11	01-Dec-11	21-May-12	24-Oct-12	23-Apr-13	04-Nov-13	28-Apr-04	22-Oct-04	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**67**	**30**	99.5	42.5	**108**	**39.6**	**40.9**	**83.8**	79.2	18.9	53.3	99.4	58.9	111	111	85.5
Conductivity (umhos/cm)	N/V	N/V	N/V	1280	1360	1390	1360	1300	1250	1350	1330	1310	1140	1180	1290	1360	1050	1290	1320
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**730**	**770**	599	613	578	571	628	540	537	704	582	659	552	580	597	661
pH (pH units)	6.5-8.5	N/V	8.2	7.35	7.47	7.34	7.65	7.39	7.68	7.44	8	7.29	7.87	7.42	7.22	7.47	7.37	7.41	7.58
Total Dissolved Solids (mg/L)	N/V	N/V	394	**710**	**840**	**840**	**784**	832	756	802	800	760	882	794	746	782	665	728	679
Turbidity (NTU)	1	N/V	N/V	**7.1**	**8.2**	28	5	26	23	8.6	26	57	3.3	35	43	14.7	49.7	33	38.6
Alkalinity, Total (mg/L)	30-500	N/V	391.5	**530**	**580**	552	612	598	591	580	593	582	485	620	588	583	590	629	546
Ammonia as N (mg/L)	N/V	N/V	N/V	1.8	2.3	7.35	3.94	4.91	3.33	3.72	3.16	3.4	3.06	6.72	6.8	7.60	5.59	7.6	3.45
Chloride (mg/L)	250	250	125.5	56	53	63.6	52	56.5	46.8	55.3	48.1	45.2	47.7	51.8	45	48	36.9	43.2	37.9
Fluoride (mg/L)	1.5	N/V	0.45	<0.5	<0.5	0.11	<0.10	0.12	<0.1	<0.50	<0.10	<0.1	<0.1	0.2	<0.5	<0.50	<0.10	0.062	>0.1
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.30	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.50	<0.10	<0.01	<0.05
Nitrate-N (mg/L)	10	10	2.6	<0.1	0.3	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.50	<0.10	<0.02	<0.1
Phosphate-P (ortho)	N/V	N/V	N/V	0.003	0.004	<0.0030	<0.0030	0.0031	0.0034	0.0033	0.0033	0.003	<0.003	<0.003	0.0032	0.0036	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	112	128	104	103	99.7	91.8	106	110	98.9	221	117	91	108	75.8	88.6	179
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.04	<0.01	0.012	0.024	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.009	0.008	0.005	0.0088	0.0052	0.0057	0.0089	0.0056	0.005	0.0015	0.0056	0.0059	0.0051	0.0059	0.0071	0.0026
Barium (Ba)-Total	1	1	N/V	0.15	0.17	0.167	0.15	0.154	0.144	0.199	0.147	0.124	0.116	0.153	0.143	0.128	0.155	0.185	0.110
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.44	0.83	0.453	0.584	0.376	0.485	0.345	0.341	0.368	0.466	0.340	0.438	0.272	0.369	0.390	0.548
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000358	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	161	152	135	128	131	115	152	120	121	143	134	153	128	133	134	134
Chromium (Cr)-Total	0.05	0.05	N/V	0.007	0.002	0.0042	0.0022	<0.0010	0.0010	0.0019	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00063
Cobalt (Co)-Total	N/V	0.1	N/V	0.0066	0.0047	0.00746	0.00668	0.00522	0.00536	0.00936	0.00509	0.00509	0.00242	0.00601	0.00582	0.00550	0.00633	0.00705	0.00265
Copper (Cu)-Total	1	0.023	0.5007	0.004	0.002	0.0013	0.0025	0.001	<0.0010	0.0037	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	**2.48**	3.48	2.95	2.85	2.93	3.36	**3.89**	2.91	3.23	0.848	3.47	3.80	3.07	4.32	4.55	1.98
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	79.3	94.3	63.7	71	60.7	69.0	60.3	58.3	57.0 *	84.5 *	60.2	67.3	56.3	60.0	63.8	78.9
Manganese (Mn)-Total	0.05	N/V	0.09	1.48	0.884	1.35	1.19	1.14	1.06	1.25	0.976	0.869	0.808	1.00	0.930	0.848	0.910	0.972	0.658
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.025	0.02	0.0234	0.0202	0.0158	0.0175	0.0237	0.0134	0.0128	0.0083	0.0156	0.0146	0.0141	0.0144	0.0174	0.0079
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	8	11	8.2	8.3	7.8	7.6	11.2	6.8	6.5	12.4	7.1	7.8	6.7	8.4	9.7	10.1
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	16.4	11.6	11.6	8.37	5.6	6.6	8.6	5.4	5.8	5.7	5.7	7.5	5.3	6.5	6.8	6.4
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	42.4	40.7	40	33.6	35.1	29.4	36.1	26.1	25	31.9 *	30.5	31.6	28.1	29.5	36.4	26.4
Strontium (Sr)-Total	N/V	N/V	N/V	0.259	0.263	0.245	0.245	0.245	0.228	0.299	0.265	0.228	0.297	0.255	0.258	0.230	0.267	0.286	0.277
Thallium (Tl)-Total	N/V	0.002	N/V	0.0004	<0.0003	0.00048	<0.00030	0.0004	0.00033	0.00055	0.00034	<0.00030	0.00035	<0.00030	<0.00030	0.00030	<0.00030	0.00035	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	0.002	<0.0020	0.0022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.014	0.006	0.0101	0.0057	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.21	0.057	0.053	0.017	0.043	0.0216	0.11	0.0144	0.0208	0.0139	0.0280	0.0393	0.0304	0.0362	0.0640	0.0121
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	1.5	NT	1.3	NT	1.13	NT	1.3	NT	0.94	NT	1.24	NT	1.01	NT	0.84	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	0.57	NT	<0.5	NT	<0.5	NT	0.51	NT	0.51	NT	0.52	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	3	NT	3	NT	2.3	NT	3.2	NT	3	NT	2.2	NT	2.4	NT	1.7	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				OW3S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	31/10/2011	11/05/2012	24/10/2012	23-Apr-13	04-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**33**	**33**	21.6	30.9	36.3	11.1	**33.4**	**31.4**	109	17.9	30.9	43.2	34.5	64.5	65.9	105
Conductivity (umhos/cm)	N/V	N/V	N/V	720	693	645	720	804	737	785	694	768	636	691	703	603	426	686	704
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**470**	**540**	409	471	463	451	485	382	404	450	474	425	430	422	418	424
pH (pH units)	6.5-8.5	N/V	8.2	7.68	7.79	7.77	7.91	7.85	7.85	7.74	8.01	7.62	8.21	7.76	7.53	7.7	7.75	7.66	7.82
Total Dissolved Solids (mg/L)	N/V	N/V	394	**370**	**400**	358	384	436	448	432	382	416	378	404	384	329	38	383	364
Turbidity (NTU)	1	N/V	N/V	**9.4**	**10.7**	13.3	3.2	12.5	6.7	8.4	9.2	139	7.2	46	11	9.01	359	42	<1000
Alkalinity, Total (mg/L)	30-500	N/V	391.5	420	**330**	363	419	476	495	472	411	456	393	446	395	355	385	417	379
Ammonia as N (mg/L)	N/V	N/V	N/V	0.06	0.14	0.155	0.066	0.052	0.055	0.092	0.449	0.132	<0.05	<0.05	0.072	<0.050	<0.050	0.051	<0.05
Chloride (mg/L)	250	250	125.5	<2	7	<2.0	<2.0	<2	<2	<2.0	<2.0	<2	<2	<2	<2	<2.0	<2.0	<0.5	<0.5
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	0.025	<0.02
Nitrite-N (mg/L)	1	1	0.3	<0.1	0.1	0.76	0.16	**<0.1**	**<0.1**	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	0.1	0.4	<0.10	<0.10	0.14	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	0.059	0.064
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	<0.003	<0.0030	<0.0030	0.0031	<0.003	<0.0030	0.0032	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	6	8	6.5	5.2	5.3	3.8	2	<2.0	2.5	2	<2	<2	<2	<2	1.85	1.76
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	<0.01	0.021	0.022	<0.010	<0.010	<0.010	<0.010	0.044	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.001	0.001	0.0015	0.003	<0.0010	0.0013	0.0015	0.0011	0.0011	<0.0010	<0.0010	0.0010	0.0017	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	1	1	N/V	0.07	0.08	0.1	0.145	0.078	0.095	0.089	0.066	0.059	0.051	0.073	0.065	0.114	0.062	0.074	0.065
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.35	0.46	0.166	0.237	0.095	0.120	0.112	0.089	0.08	0.065	0.119	0.085	0.180	0.100	0.110	0.096
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	0.00013	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000136	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	194	192	107	121	124	115	137	107	110	125	130	119	119	119	116	120
Chromium (Cr)-Total	0.05	0.05	N/V	0.007	0.004	0.0021	0.0018	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00124
Cobalt (Co)-Total	N/V	0.1	N/V	0.0006	0.0006	<0.00050	0.00052	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00056	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	0.002	<0.001	0.0018	0.0016	<0.0010	0.0013	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	0.11	1.53	3.73	1.82	1.76	2.62	1.44	0.949	1.37	1.85	1.59	3.51	1.34	1.86	0.993
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	96.4	88.1	34.1	41.1	37	39.9	34.9	27.8	31.4	33.6	36.2	31.0	32.5	30.2	31.1	30.5
Manganese (Mn)-Total	0.05	N/V	0.09	0.117	0.079	0.107	0.175	0.0843	0.172	0.122	0.197	0.113	0.0743	0.175	0.154	0.192	0.172	0.112	0.377
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.009	0.009	0.0047	0.0053	<0.0020	0.0036	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	1	2	5.3	7.5	3.8	4.2	5	3	2.7	2.2	3.6	3.1	6.0	3.4	3.9	3.5
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	19.1	12.9	6.79	6.73	4.1	4.6	5.5	3.6	3.9	4.5	4.2	4.2	3.5	4.2	3.8	4.2
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	18.9	20	18.9	18.5	10.3	11.5	9.93	7.68	6.53	6.25	10.1	9.30	13.9	9.40	10.1	9.12
Strontium (Sr)-Total	N/V	N/V	N/V	0.219	0.227	0.169	0.222	0.187	0.199	0.206	0.196	0.172	0.178	0.192	0.168	0.219	0.209	0.247	0.214
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.016	0.005	0.0062	0.0051	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.011	0.006	0.0425	0.0221	<0.0030	0.0127	0.0035	0.0052	0.0187	<0.0030	0.0064	0.0039	<0.0030	<0.0030	0.0054	0.0038
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW3D															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	31/10/2011	21/05/2012	24/10/2012	24-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**75**	130	199	122	200	**122**	**170**	**169**	131	50.6	61.5	146	111	124	336	161
Conductivity (umhos/cm)	N/V	N/V	N/V	1960	2000	1700	1700	1800	1590	1630	1530	1560	1170	1460	1670	1740	1310	1580	1540
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**760**	**940**	741	702	758	657	731	563	561	710	652	668	746	674	649	587
pH (pH units)	6.5-8.5	N/V	8.2	7.24	7.09	7.33	7.39	7.3	7.43	7.19	7.94	7.28	7.72	7.34	7.07	6.79	7.2	7.06	7.19
Total Dissolved Solids (mg/L)	N/V	N/V	394	1130	1160	988	940	990	946	924	890	888	840	972	945	999	896	847	802
Turbidity (NTU)	1	N/V	N/V	54	30	70	12.5	71	20	32	46	151	11.8	138	51	27	68.5	111	323
Alkalinity, Total (mg/L)	30-500	N/V	391.5	790	**840**	751	728	770	743	749	717	722	697	831	769	714	818	827	721
Ammonia as N (mg/L)	N/V	N/V	N/V	17	28	22.3	20.7	20.9	16.8	16.4	13.6	14	15.3	18.9	17	22.5	17.2	25.2	20.4
Chloride (mg/L)	250	250	125.5	112	125	96.3	81.1	94.1	72.2	63.3	59.6	54.1	51.6	71.5	58.9	61	61.8	56.9	59.8
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	<0.10	<0.10	0.27	0.46	<0.50	<0.50	<0.1	<0.1	0.43	0.3	<0.50	<0.10	<0.02	<0.1
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.10	<0.10	<0.1	**<0.1**	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.50	<0.10	<0.01	0.091
Nitrate-N (mg/L)	10	10	2.6	<0.1	0.4	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.50	<0.10	<0.02	<0.1
Phosphate-P (ortho)	N/V	N/V	N/V	0.003	0.004	0.0037	<0.0030	0.0035	0.0032	0.0033	<0.0030	<0.003	<0.003	<0.003	0.004	0.0032	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	219	117	101	90	102	117	87.6	79.5	109	71.4	109	91	183	71.8	54.6	42.8
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.02	<0.1 *	<0.050 *	0.1	<0.10 *	<0.10	0.166	<0.010	0.023	0.013	0.013	0.012	0.011	0.011	0.010	0.011
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.05 *	<0.010 *	<0.050 *	<0.050 *	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.004	<0.01 *	0.52 *	<0.010 *	<0.010 *	<0.010	0.0131	0.0063	0.0051	0.0061	0.0057	0.0071	0.0077	0.0059	0.0031	0.0052
Barium (Ba)-Total	1	1	N/V	0.31	0.8 *	<0.010 *	0.43 *	0.48 *	0.39	0.425	0.268	0.256	0.36	0.320	0.314	0.434	0.324	0.379	0.265
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.01 *	<0.010 *	<0.010 *	<0.010 *	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.01 *	0.91 *	<0.010 *	<0.010 *	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.57	0.9 *	<0.0010 *	0.70 *	0.91 *	0.70	0.601	0.416	0.477	0.514	0.571	0.478	0.750	0.603	0.646	0.514
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.001 *	171 *	<0.0010 *	<0.0010 *	<0.0010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	176	244 *	0.059 *	175 *	181 *	161	199	141	145	186	169	172	183	172	163	155
Chromium (Cr)-Total	0.05	0.05	N/V	0.009	<0.01 *	<0.0050 *	<0.010 *	<0.010 *	<0.010	0.0055	<0.0010	0.00068	0.00081	0.00061	0.00079	0.00070	0.00068	0.00086	0.00121
Cobalt (Co)-Total	N/V	0.1	N/V	0.0016	<0.005 *	<0.010 *	<0.0050 *	<0.0050 *	<0.0050	0.00114	0.00062	<0.00050	0.00067	0.00059	0.00062	0.00064	0.00066	0.00094	0.00056
Copper (Cu)-Total	1	0.023	0.5007	0.001	<0.01 *	12.6 *	<0.010 *	<0.010 *	<0.010	0.0039	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	**1.64**	18.5 *	<0.010 *	13.8 *	17.9 *	**10.6**	**15.2**	**10.2**	10.0 *	16.5	13.2	12.6	15.4	13.2	12.9	13.1
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.01 *	76.2 *	<0.010 *	<0.010 *	<0.010	<0.0010	0.0018	0.0027	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	77.8	80 *	0.608 *	64.2 *	74.4 *	62.0	56.7	51.5	46.0 *	59.8 *	56.1	57.7	70.4	59.4	58.9	48.4
Manganese (Mn)-Total	0.05	N/V	0.09	**0.525**	0.62 *	<0.010 *	0.571 *	0.731 *	0.622	0.657	0.511	0.548	0.839	0.719	0.655	0.806	0.652	0.770	0.768
Molybdenum (Mo)-Total	N/V	7.3	N/V	0.002	<0.01 *	0.044 *	<0.010 *	<0.010 *	<0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.014	<0.02 *	<0.50 *	<0.020 *	<0.020 *	<0.020	0.0058	0.0036	0.0027	0.0043	0.0040	0.0038	0.0039	0.0033	0.0043	0.0035
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.5 *	29 *	<0.50 *	<0.50 *	<0.50	0.127	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	21	40 *	<0.050 *	25 *	30 *	20	23	14.6	15.5	18.4	16.7	17.3	24.9	19.9	22.7	16.7
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.05 *	13.3 *	<0.050 *	<0.050 *	<0.050	<0.0050	<0.0050	0.00062	<0.00040	<0.00040	0.00048	<0.00040	<0.00040	<0.00040	0.00074
Silicon (Si)-Total	N/V	N/V	N/V	19	11 *	<0.0010 *	6.7 *	<10 *	<10	13.7	5.1	5.4	7	6.1	6.1	5.7	6.1	6.4	5.7
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.001 *	78.2 *	<0.0010 *	<0.0010 *	<0.0010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	61.8	83 *	0.445 *	54.6 *	70.5 *	48.2	44.1	36.2	31.9	45.6 *	43.0	44.9	55.8	47.6	52.5	41.0
Strontium (Sr)-Total	N/V	N/V	N/V	0.339	0.48 *	<0.0030 *	0.445 *	0.504 *	0.462	0.509	0.434	0.415	0.505	0.450	0.368	0.574	0.481	0.511	0.459
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.003 *	<0.010 *	<0.0030 *	<0.0030 *	<0.0030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.01 *	<0.020 *	<0.010 *	<0.010 *	<0.010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.02 *	<0.10 *	<0.020 *	<0.020 *	<0.020	0.0027	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.1 *	<0.050 *	<0.10 *	<0.10 *	<0.10	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.05 *	0.012 *	<0.050 *	<0.050 *	<0.050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.021	<0.01 *	0.756 *	<0.010 *	<0.010 *	<0.010	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.062	0.22 *	<0.040 *	0.084 *	0.082 *	<0.030	0.256	0.0073	0.0277	0.0094	0.0100	0.0040	0.0091	0.0034	0.0050	<0.0030
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.04 *	<0.0040	<0.040 *	<0.040 *	<0.040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	1	NT	1.18	NT	1.66	NT	1.27	NT	1.05	NT	1.01	NT	0.58	NT	0.54	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	0.8	NT	<0.5	NT	0.55	NT	0.62	NT	0.62	NT	0.52	NT	0.54	NT	<0.05	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	1.2	NT	1.27	NT	1.72	NT	1.11	NT	0.78	NT	0.99	NT	0.86	NT	1.17	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	5	NT	5.6	NT	4.4	NT	3.9	NT	4.4	NT	2.7	NT	2.3	NT	2.7	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	2	NT	<1	NT	1.2	NT	<1.0	NT	<1.0	NT	1.6	NT	1.6	NT	1.6	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				OW5S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	01/11/2011	21/05/2012	24/10/2012	24-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14	29/04/201	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**34**	32	47.3	63.7	3.3	21	**35.4**	**22.3**	82.1	36.1	30	37.8	36.3	34.5	67.7	150
Conductivity (umhos/cm)	N/V	N/V	N/V	381	670	412	659	616	713	537	585	512	671	364	596	458	408	585	775
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**230**	**400**	225	353	359	391	**286**	**368**	261	386	278	325	234	369	309	445
pH (pH units)	6.5-8.5	N/V	8.2	7.97	7.79	8.02	7.98	7.88	7.98	7.93	7.83	7.81	8.09	8.03	7.67	8.08	7.76	7.88	7.95
Total Dissolved Solids (mg/L)	N/V	N/V	394	180	410	218	334	354	414	302	356	272	378	250	328	250	348	320	412
Turbidity (NTU)	1	N/V	N/V	**9.7**	9.3	57	3.8	10.7	7.7	10.3	9.3	>200	4.1	17.5	8.71	23.0	13.6	28	982
Alkalinity, Total (mg/L)	30-500	N/V	391.5	190	340	222	351	354	401	298	286	277	392	232	294	229	368	351	428
Ammonia as N (mg/L)	N/V	N/V	N/V	0.06	0.12	0.063	0.088	0.084	0.057	<0.05	<0.050	0.589	2.13	0.166	0.051	<0.050	<0.050	<0.05	<0.05
Chloride (mg/L)	250	250	125.5	<2	4	<2.0	6.6	3.3	7.5	2.6	16.2	3.2	5	8.8	6.6	5.7	3.5	3.61	11.1
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	0.035	0.025
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	0.68	0.75	**<0.1**	**<0.1**	0.49	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	1	1.2	<0.10	<0.10	0.9	0.71	<0.10	6.55	1.1	<0.1	1.78	3.54	3.86	0.79	0.54	0.522
Phosphate-P (ortho)	N/V	N/V	N/V	0.003	0.004	0.004	<0.0030	0.0038	<0.003	0.0042	0.003	0.0039	<0.003	<0.003	0.0031	0.0032	<0.003	<0.003	0.0033
Sulphate (mg/L)	500	N/V	253.9	6	25	3.3	18.5	7.8	18.2	5.4	20.9	5.6	7.3	10.1	10.1	5.7	4.2	4.28	16.3
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	<0.01	<0.010	0.024	<0.010	0.026	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	1	1	N/V	0.01	0.02	0.013	0.016	0.026	0.015	0.01	0.02	<0.010	0.025	0.012	0.019	<0.010	0.018	0.014	0.027
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	<0.05	0.06	<0.050	0.065	0.056	0.082	<0.050	0.062	<0.050	0.052	<0.050	<0.050	<0.050	<0.050	<0.050	0.109
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000174	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	61.8	111	58.1	90.6	91.5	98.0	81.4	98.2	70.6	102	74.7	87.6	62.1	99.7	82.0	116
Chromium (Cr)-Total	0.05	0.05	N/V	0.002	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00081
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	0.001	0.001	0.0013	0.0023	0.0011	0.0026	0.0033	<0.0010	0.0018	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0011
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.967	0.114	<0.050	<0.050	<0.050	<0.050	0.250
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	19.2	29.5	19.4	30.8	31.8	35.5	20.1	29.8	20.5	32.1	22.1	25.7	19.1	29.1	25.3	37.5
Manganese (Mn)-Total	0.05	N/V	0.09	0.033	0.024	0.0016	0.0628	0.0738	0.0147	0.0022	0.0489	0.0108	0.249	0.0208	0.0128	<0.0010	0.0185	0.0163	0.0352
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.003	0.004	<0.0020	0.0032	<0.0020	0.0038	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.285	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	<1	2	1	1.8	2.9	2.3	2	2.5	1.5	3.3	1.5	1.7	1.2	1.8	2.0	3.4
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.00052	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	3.9	5.2	2.82	4.97	2.9	3.8	3	3.1	2	3.7	2.2	2.6	1.3	3.3	2.2	4.3
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	1.5	2.9	0.97	3.97	4.97	4.69	1.3	7.02	1.64	4.27	2.53	3.68	1.89	3.52	2.75	8.12
Strontium (Sr)-Total	N/V	N/V	N/V	0.056	0.127	0.056	0.124	0.122	0.139	0.0815	0.135	0.0736	0.124	0.0781	0.0903	0.0609	0.117	0.0936	0.162
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.005	0.003	0.0024	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.007	0.006	0.018	0.0319	0.007	0.0233	0.022	<0.0030	0.0087	0.005	<0.0030	0.0033	<0.0030	<0.0030	<0.0030	0.0032
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW6S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	31/10/2011	21/05/2012	24/10/2012	23-Apr-13	04-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**52**	**98**	42.5	40.8	66.4	77.6	**63.6**	**28.4**	270	49.6	54.6	55.5	104	52.2	103	250
Conductivity (umhos/cm)	N/V	N/V	N/V	452	621	468	597	479	573	460	601	486	416	370	523	459	339	481	539
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**280**	**370**	257	346	282	292	254	276	258	316	275	295	249	294	252	295
pH (pH units)	6.5-8.5	N/V	8.2	7.81	7.71	7.89	7.94	7.87	8.04	7.93	8.01	7.79	8.13	8.01	7.66	7.71	7.77	7.84	7.8
Total Dissolved Solids (mg/L)	N/V	N/V	394	240	**360**	252	330	260	322	256	352	256	290	254	308	243	274	272	293
Turbidity (NTU)	1	N/V	N/V	**3.7**	**55**	37	6.9	17.7	7.7	**14.5**	**8**	>200	15	110	288	31.0	14.0	108	>1000
Alkalinity, Total (mg/L)	30-500	N/V	391.5	250	360	251	336	265	326	247	346	266	305	266	293	257	291	235	307
Ammonia as N (mg/L)	N/V	N/V	N/V	0.08	0.1	0.058	0.051	0.07	<0.05	<0.050	<0.050	0.057	<0.05	<0.05	<0.05	<0.050	<0.050	0.286	<0.05
Chloride (mg/L)	250	250	125.5	<2	7	2.4	2.8	<2	<2	2.7	4	<2	<2	<2	<10	<2.0	<2.0	0.95	0.84
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	0.041	0.038
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.10	<0.10	<0.1	**<0.1**	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	<0.1	0.3	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	0.025	0.022
Phosphate-P (ortho)	N/V	N/V	N/V	280	0.003	<0.0030	<0.0030	0.0031	0.0035	<0.0030	<0.0030	<0.003	<0.003	0.0032	<0.003	<0.003	<0.003	0.0082	<0.003
Sulphate (mg/L)	500	N/V	253.9	9	8	5.6	3.2	5.8	4.9	3.3	3.3	4.5	6.1	7.3	<10	2.2	<2	1.67	2.38
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	<0.01	<0.010	0.068	0.034	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	<0.001	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	0.0025	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	1	1	N/V	0.01	0.02	<0.010	0.019	0.016	0.021	<0.010	0.012	<0.010	0.012	0.014	0.012	<0.010	0.012	<0.010	0.011
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	75.3	106	68	93	78.8	75.3	72.6	75.4	70.3	84.8	73.3	80.1	68.4	80.4	67.6	81.5
Chromium (Cr)-Total	0.05	0.05	N/V	0.002	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00079
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	0.0006	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	<0.001	<0.001	0.0011	0.0039	<0.0010	<0.0010	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0014	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	<0.05	<0.050	0.4	0.255	0.159	0.156	0.922	<0.050	0.359	<0.050	0.134	0.214	0.282	0.158	0.313
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	21.2	26.2	21.1	27.6	20.7	25.2	17.8	21.2	20	25.3	22.4	23.0	19.0	22.6	20.2	22.2
Manganese (Mn)-Total	0.05	N/V	0.09	0.014	0.091	0.0343	0.0489	0.03	0.0459	0.0283	0.071	0.0194	0.0278	0.0108	0.0817	0.0302	0.108	0.0473	0.0459
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.003	0.004	0.0025	0.0036	<0.0020	0.0021	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	<1	<1	<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
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	4.1	5	4.03	3.97	2.2	2.9	2.8	3	2.5	2.9	2.6	2.9	2.0	2.9	2.2	2.7
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	1.9	0.9	0.84	1.09	0.73	3.67	0.6	0.94	0.72	0.89	0.90	0.98	0.58	0.87	0.65	0.86
Strontium (Sr)-Total	N/V	N/V	N/V	0.069	0.089	0.0606	0.0912	0.0689	0.0862	0.0614	0.0847	0.0625	0.0747	0.0642	0.0697	0.0577	0.0713	0.0616	0.0783
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.004	0.003	0.0028	0.0017	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	<0.003	<0.003	0.0104	0.0788	0.0645	0.0168	0.0038	0.008	0.0049	<0.0030	0.0041	0.0054	<0.0030	<0.0030	<0.0030	0.0034
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW6D															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	31/10/2011	21/05/2012	24/10/2012	23-Apr-13	04-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**70**	**76**	42	90.3	133	**43.4**	**140**	**66.2**	238	61.5	256	97.2	122	96.1	165	154
Conductivity (umhos/cm)	N/V	N/V	N/V	514	528	510	526	525	539	547	534	545	392	404	527	562	355	553	557
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**320**	**300**	286	327	298	303	282	248	284	298	325	298	301	319	288	313
pH (pH units)	6.5-8.5	N/V	8.2	7.74	7.75	7.82	7.94	7.84	7.93	7.81	7.98	7.68	8.12	7.84	7.61	7.85	7.64	7.65	7.65
Total Dissolved Solids (mg/L)	N/V	N/V	394	300	**330**	292	298	300	312	318	320	302	292	306	305	306	299	322	291
Turbidity (NTU)	1	N/V	N/V	**4.2**	**17.1**	9.4	7.8	19.7	7.6	20	9.9	50	6.1	40	60.5	17.0	13.8	29	47.5
Alkalinity, Total (mg/L)	30-500	N/V	391.5	290	**290**	267	283	286	285	304	299	291	291	292	289	309	306	288	309
Ammonia as N (mg/L)	N/V	N/V	N/V	0.1	0.13	0.054	0.084	0.122	0.091	0.108	0.109	0.177	0.145	0.118	0.108	0.110	0.116	0.081	0.204
Chloride (mg/L)	250	250	125.5	<2	6	<2.0	<2.0	<2	<2	<2.0	<2.0	<2	<2	<2	<10	<2.0	<2.0	0.92	0.87
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	0.041	0.036
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.10	<0.10	**<0.1**	**<0.1**	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	<0.1	0.3	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	<0.02	<0.02
Phosphate-P (ortho)	N/V	N/V	N/V	0.003	<0.003	<0.0030	<0.0030	0.0034	0.003	0.0034	<0.0030	0.0039	<0.003	0.0039	<0.003	<0.003	<0.03	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	13	15	14.3	12.1	11.8	11.9	9.2	8	7.9	7.5	8.3	<10	5.9	5.1	5.37	4.93
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.02	<0.01	<0.010	0.167	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.004	0.004	<0.0010	0.0054	0.0031	0.0046	0.004	0.0046	<0.0010	0.0043	0.0012	0.0042	0.0032	0.0027	0.0027	0.0034
Barium (Ba)-Total	1	1	N/V	0.02	0.01	0.011	0.018	0.014	0.025	0.016	0.012	0.012	0.015	0.023	0.015	0.015	0.016	0.015	0.016
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	85.2	80.6	72.6	86.4	79.1	74.8	78.4	66.2	75	78.8	84.0	78.1	80.6	83.8	74.8	84.1
Chromium (Cr)-Total	0.05	0.05	N/V	0.002	<0.001	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00071
Cobalt (Co)-Total	N/V	0.1	N/V	0.0009	0.0007	<0.00050	0.00098	<0.00050	<0.00050	0.00098	0.00075	<0.00050	0.00082	<0.00050	0.00065	0.00074	0.00064	0.00076	0.00071
Copper (Cu)-Total	1	0.023	0.5007	0.001	<0.001	0.0069	0.003	0.0017	<0.0010	0.0047	0.0013	0.0011	<0.0010	<0.0010	<0.0010	0.0015	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	**2.11**	1.43	<0.050	2.32	2.16	1.38	**2.08**	1.89	0.279	2.63	0.138	1.87	2.43	1.79	1.99	2.38
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	0.002	0.0016	<0.0010	0.0015	0.0022	<0.0010	0.002	<0.0010	0.0011	0.0012	<0.0010	<0.0010	0.0012
Magnesium (Mg)-Total	N/V	N/V	87	25	25.1	25.4	27.2	24.3	28.3	21	20.2	23.5	24.6	28.0	25.1	24.2	26.7	24.6	25.0
Manganese (Mn)-Total	0.05	N/V	0.09	**0.237**	0.152	0.0329	0.173	0.156	0.144	0.16	0.137	0.0238	0.154	0.0282	0.147	0.208	0.190	0.215	0.190
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	0.002	<0.0010	0.0018	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.004	0.004	0.0036	0.0044	0.0022	0.0027	0.0021	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	<1	<1	<1.0	1	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	7	5.1	5.77	4.95	3.5	4.5	3.8	3.5	3.6	3.9	4.3	4.0	3.3	3.7	3.2	3.4
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	1.2	1.3	2.02	1.81	1.16	20.9	0.94	1.19	1.47	1.37	2.38	1.81	1.04	1.48	1.14	1.61
Strontium (Sr)-Total	N/V	N/V	N/V	0.078	0.074	0.0722	0.0878	0.0763	0.101	0.0734	0.0866	0.0722	0.0761	0.0897	0.0718	0.0742	0.0788	0.0725	0.0858
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.006	0.002	0.0036	0.0021	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.072	0.007	0.0258	0.212	0.0217	0.0154	0.0306	0.022	0.0098	0.0249	0.0123	0.0153	0.0152	0.0095	0.0080	0.0096
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

Well ID				OW7S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	01/11/2011	21/05/2012	24/10/2012	23-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**49**	**60**	48.7	103	87.2	32.3	**63.2**	**62.7**	44.7	50.4	73.6	111	102	78.1	131	228
Conductivity (umhos/cm)	N/V	N/V	N/V	1070	1150	1060	1150	1070	1110	1090	1070	1050	952	1000	1160	1090	966	1170	1130
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**710**	**820**	663	648	591	602	695	615	567	658	662	594	918	663	616	620
pH (pH units)	6.5-8.5	N/V	8.2	7.31	7.31	7.03	7.59	7.46	7.66	7.44	7.3	7.29	7.81	7.57	7.23	6.87	7.37	7.34	7.36
Total Dissolved Solids (mg/L)	N/V	N/V	394	650	**760**	684	714	654	708	**714**	**692**	650	704	692	725	682	727	722	745
Turbidity (NTU)	1	N/V	N/V	**8.3**	**10.3**	42	5.9	19.2	3.8	6.5	18.7	>200	7.8	67	18.9	13.5	15.4	79	>1000
Alkalinity, Total (mg/L)	30-500	N/V	391.5	490	**570**	532	594	553	619	566	552	509	554	583	532	495	553	587	487
Ammonia as N (mg/L)	N/V	N/V	N/V	0.13	0.16	0.201	0.069	0.196	0.139	0.2	0.069	0.214	0.317	0.282	0.288	0.301	0.418	0.42	0.232
Chloride (mg/L)	250	250	125.5	4	3	4	2.5	4.5	3.5	8.5	5.7	11	18.2	18.8	27.3	23.3	33.5	30.9	23.4
Fluoride (mg/L)	1.5	N/V	0.45	0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	0.059	<0.1
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.10	<0.10	**<0.1**	**<0.1**	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.01	<0.05
Nitrate-N (mg/L)	10	10	2.6	<0.1	<0.1	<0.10	<0.10	<0.1	0.11	0.12	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.02	0.95
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	0.003	<0.0030	0.0059	0.0032	<0.003	0.0031	<0.0030	0.0036	0.0032	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	122	87	79.2	54.8	48.9	36.4	59.2	76.3	72.1	71	83.4	91	77.4	94.5	90.4	115
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	0.01	0.127	0.013	0.01	<0.010	0.178	<0.010	0.035	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.003	0.003	0.001	0.0036	0.0012	0.0011	0.0018	<0.0010	0.0017	0.0114	0.0035	0.0082	0.0032	0.0074	0.0048	0.0088
Barium (Ba)-Total	1	1	N/V	0.07	0.11	0.103	0.083	0.081	0.097	0.08	0.092	0.074	0.099	0.085	0.090	0.096	0.095	0.087	0.096
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.2	0.23	0.24	0.35	0.169	0.240	0.143	0.224	0.165	0.252	0.192	0.166	0.183	0.182	0.175	0.218
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	0.00013	<0.00010	<0.00010	<0.00010	<0.00010	0.00018	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000495	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	191	244	177	162	161	155	201	171	153	170	173	158	157	175	156	164
Chromium (Cr)-Total	0.05	0.05	N/V	0.007	<0.001	0.0046	0.0021	<0.0010	<0.0010	0.0018	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00093
Cobalt (Co)-Total	N/V	0.1	N/V	0.0017	0.0012	0.00162	0.00206	<0.00050	<0.00050	0.00081	0.00069	0.00075	0.00127	0.00117	0.00123	0.00161	0.00143	0.00153	0.00105
Copper (Cu)-Total	1	0.023	0.5007	0.002	0.002	0.0022	0.0022	0.0011	0.0014	0.0034	0.0035	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	<0.0010	<0.0010	0.0011
Iron (Fe)-Total	0.3	N/V	0.17	**0.59**	1.27	1.21	1.69	2.01	0.516	2.15	0.666	3.39	6.31	4.10	5.96	2.67	5.89	4.16	6.49
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	56.1	50	53.7	59.1	45.8	52.5	47	45.6	45.2	57.0 *	55.9	48.5	54.6	55.0	55.0	51.4
Manganese (Mn)-Total	0.05	N/V	0.09	**0.393**	0.359	0.378	0.285	0.472	0.442	0.42	0.199	0.327	0.288	0.421	0.341	0.360	0.365	0.391	0.213
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	0.0012	<0.0010	0.001	<0.0010	<0.0010	<0.0010	0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.01	0.01	0.0087	0.0091	0.0023	0.0065	0.0026	0.0024	0.0021	0.003	0.0028	0.0027	0.0035	0.0028	0.0032	0.0030
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	0.059	<0.050	<0.050	<0.050	0.083	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	6	5	5.6	10.4	5.9	6.7	7	6.1	5.5	7.7	6.2	5.2	8.2	6.2	6.1	5.5
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	0.00042
Silicon (Si)-Total	N/V	N/V	N/V	14.8	8.9	10.6	7.52	3.8	4.8	6.8	4.2	4.7	6.3	5.1	6.1	5.0	6.3	5.4	5.6
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	9.2	8	10.5	14.8	8.11	9.94	8.2	9.76	9.12	18	11.6	11.7	16.3	15.2	16.1	17.9
Strontium (Sr)-Total	N/V	N/V	N/V	0.272	0.303	0.276	0.326	0.268	0.294	0.285	0.308	0.252	0.313	0.267	0.231	0.261	0.281	0.276	0.283
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	0.002	<0.0020	<0.0020	0.0024	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	0.007	0.009	0.0074	0.0072	0.0075	0.0068	0.0053	0.0076	<0.0050	<0.0050	0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.016	0.007	0.0127	0.0066	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.035	0.067	0.235	0.0739	0.0475	0.0372	0.396	0.106	0.0371	0.0161	0.0304	0.0221	0.0310	0.0182	0.0213	0.0674
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0169	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW7D															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	01/11/2011	21/05/2012	24/10/2012	23-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**52**	**71**	50.5	87.4	**74.8**	**46.1**	**22.5**	**71.2**	107	37.1	28.8	85.1	59.9	54.1	136	163
Conductivity (umhos/cm)	N/V	N/V	N/V	1410	1360	1380	1440	1410	1360	1390	1360	1490	1180	1210	1520	1550	1190	1480	1410
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**760**	**670**	**664**	**617**	**612**	**619**	**621**	**630**	690	613	674	621	638	683	609	596
pH (pH units)	6.5-8.5	N/V	8.2	7.48	7.47	7.5	7.71	7.68	7.72	7.72	7.61	7.43	7.87	7.86	7.32	7.65	7.4	7.44	7.7
Total Dissolved Solids (mg/L)	N/V	N/V	394	780	**830**	838	854	836	844	842	840	888	814	802	868	886	841	828	783
Turbidity (NTU)	1	N/V	N/V	**11.8**	**24**	19.7	8.4	24	12.5	7.6	16.5	59	5.8	5.35	17.5	7.02	14.8	23	70.7
Alkalinity, Total (mg/L)	30-500	N/V	391.5	**550**	**520**	**545**	**564**	**556**	**602**	**559**	**595**	527	583	616	623	642	641	697	521
Ammonia as N (mg/L)	N/V	N/V	N/V	3.8	4.6	9.17	7.34	6.07	6.31	4.5	4.55	4.19	8.09	8.62	8.61	10.7	8.17	10.9	9.79
Chloride (mg/L)	250	250	125.5	55	60	55.9	59.9	58.4	58.2	57.6	60	60.8	58.7	65.4	62.3	63	57.5	55.7	52.7
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	0.11	<0.10	0.11	<0.1	<0.10	<0.50	<0.1	<0.1	0.16	<0.1	<0.50	<0.10	0.058	<0.1
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.50	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.50	<0.10	<0.01	<0.05
Nitrate-N (mg/L)	10	10	2.6	<0.1	0.4	<0.10	<0.10	<0.1	<0.1	1.27	0.16	1.35	0.37	0.43	<0.1	<0.50	<0.10	0.031	<0.1
Phosphate-P (ortho)	N/V	N/V	N/V	0.004	0.004	<0.0030	<0.0030	0.0034	0.0032	<0.0030	0.0043	0.0033	<0.003	0.0037	0.0036	0.003	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	173	144	150	150	155	135	144	129	139	128	143	142	144	145	129	117
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	<0.01	0.016	0.048	<0.010	<0.010	<0.010	<0.010	0.089	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.006	0.005	0.0018	0.0042	0.0014	0.0015	<0.0010	0.0012	0.0011	0.0027	<0.0010	0.0022	0.0022	0.0019	0.0018	0.0032
Barium (Ba)-Total	1	1	N/V	0.11	0.13	0.09	0.112	0.09	0.098	0.079	0.103	0.09	0.125	0.093	0.111	0.128	0.124	0.119	0.115
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.54	0.47	0.62	0.574	0.536	0.577	0.424	0.488	0.51	0.496	0.536	0.522	0.471	0.651	0.504	0.494
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	0.00014	<0.00010	0.000113	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	143	137	124	113	119	115	130	128	132	123	132	128	126	136	122	125
Chromium (Cr)-Total	0.05	0.05	N/V	0.008	0.002	0.0031	0.0015	<0.0010	0.0011	0.0013	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00070
Cobalt (Co)-Total	N/V	0.1	N/V	0.0042	0.0041	0.00469	0.00374	0.00056	0.00232	<0.00050	0.00322	0.00189	0.00245	0.00144	0.00411	0.00357	0.00443	0.00383	0.00392
Copper (Cu)-Total	1	0.023	0.5007	<0.001	<0.001	0.0044	0.0025	0.0037	<0.0010	0.0056	0.002	0.0023	<0.0010	<0.0010	0.0012	<0.0010	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	**4.41**	5.77	4.69	3.83	2.15	2.85	<0.050	3.53	2.33	1.99	0.996	6.11	5.05	6.43	5.57	5.69
Lead (Pb)-Total	0.01	0.01	0.0027	0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	0.0013	<0.0010	0.0013
Magnesium (Mg)-Total	N/V	N/V	87	97.1	78.9	86.1	81.2	76.5	80.4	71.8	75.7	87.4 *	74.0 *	83.5	73.0	78.7	83.2	74.2	68.9
Manganese (Mn)-Total	0.05	N/V	0.09	**0.337**	0.169	0.18	0.195	0.116	0.209	0.0142	0.152	0.112	0.181	0.0795	0.156	0.182	0.186	0.192	0.197
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	0.0013	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.014	0.014	0.0131	0.0115	0.0093	0.0113	0.0105	0.0096	0.0096	0.0069	0.0103	0.0104	0.0091	0.0104	0.0092	0.0088
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	24	26	26.5	22.9	25.3	20.2	25	24.3	25.7	19.7	26.6	25.5	21.5	28.3	23.2	22.0
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.00045	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	16.8	10.2	10.2	7.3	5.2	6.5	7.6	5.8	6.1	6.4	6.2	6.8	5.9	6.8	6.0	6.0
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	33.5	34.2	35.9	47.4	35.6 *	31.3	29.6	33.8	37.8 *	45.3 *	37.3	35.9	46.7	42.1	40.5	38.1
Strontium (Sr)-Total	N/V	N/V	N/V	0.355	0.323	0.325	0.351	0.34	0.302	0.331	0.372	0.354	0.322	0.322	0.323	0.353	0.403	0.342	0.355
Thallium (Tl)-Total	N/V	0.002	N/V	0.0005	0.0008	0.00102	<0.00030	0.00078	0.00062	0.00111	0.00085	0.00072	0.00042	0.00085	0.00080	0.00060	0.00082	0.00072	0.00042
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	0.002	<0.0020	0.0027	0.0027	<0.0020	<0.0020	0.0032	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.017	0.007	0.008	0.0042	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.088	0.093	0.165	0.11	0.136	0.101	0.181	0.136	0.326	0.0598	0.154	0.133	0.0957	0.124	0.108	0.0735
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	0.57	NT	0.67	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	0.6	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	1	NT	1.2	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	1.5	NT	1.2	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				OW8S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	31/10/2011	21/05/2012	24/10/2012	23-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**37**	31	28.8	27.4	**16**	**9.8**	**24**	**22.2**	14.8	24.3	13.9	13.6	11.4	16.2	24.1	108
Conductivity (umhos/cm)	N/V	N/V	N/V	2970	2500	2420	2510	2190	2000	2270	1550	2080	1650	1770	2030	2160	1270	1690	2090
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**2080**	**1630**	**1340**	**1370**	**1130**	**877**	1210	682	1080	1390	1270	1000	1270	961	860	1200
pH (pH units)	6.5-8.5	N/V	8.2	7.43	7.43	7.61	7.62	7.66	7.74	7.65	7.83	7.55	7.67	7.69	7.35	7.67	7.51	7.67	7.39
Total Dissolved Solids (mg/L)	N/V	N/V	394	2780	2280	2230	2110	**1930**	**1710**	**2030**	**1200**	1840	2080	2060	1710	1880	1350	1270	1430
Turbidity (NTU)	1	N/V	N/V	**8.9**	7	6.4	3.3	3	2.1	2	4.2	60	5.8	2.27	2.26	1.27	3.28	6.3	155
Alkalinity, Total (mg/L)	30-500	N/V	391.5	450	**440**	364	475	**392**	**401**	384	486	361	437	411	459	376	385	395	463
Ammonia as N (mg/L)	N/V	N/V	N/V	0.06	0.06	0.058	<0.050	0.065	<0.05	<0.050	<0.050	<0.05	<0.05	<0.05	0.051	<0.050	<0.050	<0.05	<0.05
Chloride (mg/L)	250	250	125.5	56	56	31.1	47.2	30.2	34.5	26.8	11.8	22.5	32.3	18.1	15.1	14	16.3	12.5	18.7
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.5	<0.10	<0.10	<0.5	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.50	<0.10	0.025	<0.1
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.5	4.36	0.98	<0.5	**<0.1**	<0.10	<0.10	<0.1	<0.1	0.17	<0.1	<0.50	<0.10	0.011	<0.05
Nitrate-N (mg/L)	10	10	2.6	8.7	3.7	<0.10	<0.10	**2.87**	1.39	**3.59**	0.92	2.67	0.65	3.22	2.22	2.48	1.95	2.18	1.35
Phosphate-P (ortho)	N/V	N/V	N/V	0.005	0.006	<0.0030	<0.0030	0.0039	0.0045	0.0031	0.0082	0.0043	0.0034	0.0031	0.0041	0.003	0.0039	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	**1530**	1470	1540	1320	**1250**	**935**	**1070**	370	244	982	1130	770	1050	714	550	828
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	0.08	0.016	<0.010	<0.010	<0.010	0.113	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	1	1	N/V	0.07	0.06	0.057	0.048	0.064	0.083	0.062	0.054	0.052	0.049	0.072	0.061	0.064	0.058	0.048	0.037
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.53	0.38	0.516	0.416	0.477	0.338	0.37	0.221	0.372	0.524	0.670	0.486	0.588	0.522	0.532	0.464
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	0.00056	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000971	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	377	349	237	260	234	181	267	195	214	291	282	218	277	213	189	267
Chromium (Cr)-Total	0.05	0.05	N/V	0.007	0.002	0.0014	<0.0010	<0.0010	<0.0010	0.0013	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00067
Cobalt (Co)-Total	N/V	0.1	N/V	0.0008	0.0008	0.00055	0.00082	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	0.005	0.004	0.0042	0.0028	0.0026	0.0016	0.0028	0.0038	0.0022	0.0014	0.0023	0.0020	0.0022	0.0018	0.0019	0.0022
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	0.17	<0.050	0.177	0.574	0.060	0.495	0.097	<0.050	0.326	0.108	0.082	0.466	0.093	0.462	<0.050
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0021	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	277	185	182	174	132	103	131 *	47.6	136 *	161 *	138	111	141	104	94.4	129
Manganese (Mn)-Total	0.05	N/V	0.09	**0.05**	0.071	0.0157	0.168	0.0508	0.0771	0.039	0.0429	0.0404	0.104	0.0400	0.0570	0.0310	0.0693	0.0473	0.0042
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.017	0.016	0.0087	0.0101	<0.0020	0.0051	0.0022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	13	8	15.5	7.9	11.8	7.6	11.7	4	6.5	7.1	13.6	11.5	8.9	8.3	10.6	6.5
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0005	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	13.3	7.4	5.06	5.87	3.1	3.6	4.3	4.4	3.4	4.5	3.5	3.5	3.2	3.9	3.3	4.7
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	60.4	50.5	39.4	39.5	33.9 *	24.1	22.6	9.06	18.7	28.8	20.0	16.3	24.8	18.4	16.9	21.5
Strontium (Sr)-Total	N/V	N/V	N/V	0.517	0.478	0.404	0.427	0.412	0.330	0.439	0.43	0.345	0.423	0.502	0.343	0.445	0.372	0.395	0.431
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	0.019	0.021	0.0139	0.0189	0.0136	0.0127	0.0132	<0.0020	0.0121	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.015	0.004	0.004	0.0028	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.016	0.165	0.0328	0.0076	0.0134	<0.0030	0.157	0.0057	0.0118	0.0091	0.0105	0.0061	0.0055	0.0046	0.0061	0.0057
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW9S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	01/11/2011	21/05/2012	24/10/2012	23-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**31**	32	31.4	22.2	31.5	41.5	**33.7**	**40.8**	75.2	24	25.3	47.4	41.1	90.3	74.5	175
Conductivity (umhos/cm)	N/V	N/V	N/V	1030	892	926	879	827	873	990	780	1040	872	972	1090	967	801	914	793
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**600**	**460**	**510**	**436**	**439**	**403**	**482**	**369**	492	459	534	504	490	423	420	365
pH (pH units)	6.5-8.5	N/V	8.2	7.49	7.72	7.73	7.85	7.3	7.81	7.68	7.65	7.48	7.96	7.7	7.41	7.47	7.53	7.45	7.66
Total Dissolved Solids (mg/L)	N/V	N/V	394	570	530	534	488	458	524	560	454	592	550	612	592	552	484	455	435
Turbidity (NTU)	1	N/V	N/V	**1.5**	8.9	77	3	9.2	5	7.4	9.5	>200	6.6	18.3	11.9	9.32	35.1	70	>1000
Alkalinity, Total (mg/L)	30-500	N/V	391.5	**480**	**410**	**474**	**428**	**427**	**469**	**461**	382	495	441	513	497	501	489	442	399
Ammonia as N (mg/L)	N/V	N/V	N/V	0.09	0.14	0.051	0.053	0.08	<0.05	<0.050	0.051	<0.05	0.052	<0.05	<0.05	0.083	<0.050	<0.05	0.065
Chloride (mg/L)	250	250	125.5	63	62	53.1	48	39.9	35.7	41.1	45.8	65.9	71	75.9	66.7	42.1	37.8	32.1	39
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.02	0.026
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	0.56	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	0.15	<0.1	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	0.3	0.3	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	0.25	<0.1	0.2	0.29	0.25	<0.10	0.145	0.024
Phosphate-P (ortho)	N/V	N/V	N/V	0.004	0.003	<0.0030	<0.0030	<0.003	0.0035	0.0031	<0.0030	0.0035	<0.003	0.0031	0.0035	<0.003	0.0031	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	11	11	12.1	6.1	3.8	7.7	6.3	7.5	6.6	47.9	7.5	9.3	5.4	3.6	4.35	10
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	<0.01	0.115	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	1	1	N/V	0.03	0.03	0.039	0.045	0.038	0.026	0.028	0.03	0.038	0.032	0.032	0.048	0.041	0.027	0.035	0.033
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	<0.05	<0.05	<0.050	0.072	0.085	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.069	0.062	<0.050	0.050	<0.050
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000205	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	160	130	135	113	114	106	140	105	136	129	152	139	136	119	114	105
Chromium (Cr)-Total	0.05	0.05	N/V	0.005	0.002	0.0028	0.0011	<0.0010	<0.0010	0.0012	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00059
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	<0.0005	0.00052	0.00064	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	0.001	0.001	0.0014	0.0023	0.0014	0.0024	0.004	0.0011	0.0017	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	0.0035
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.125	<0.050	0.066	<0.050	<0.050	<0.050	0.288
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	49.5	34.2	41.9	37.3	37.3	33.2	32.5	25.8	36.8	33.3	37.3	38.1	36.8	30.7	33.1	25.2
Manganese (Mn)-Total	0.05	N/V	0.09	0.013	0.053	0.0876	0.206	0.215	0.0685	0.0059	0.0381	0.0796	0.0415	0.0019	0.0480	0.0811	0.121	0.0507	0.0428
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.005	0.007	0.0054	0.0051	<0.0020	0.0047	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	1	2	2.2	3.4	4.2	<1.0	<1.0	1.6	2.2	1.9	<1.0	2.6	2.9	1.2	2.0	2.3
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.00076	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	11.4	5.4	7.76	5.68	4.4	5.0	7.2	3.1	4.7	4.7	4.4	5.1	4.3	5.1	4.2	3.5
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	23.5	30.8	26.8	29.8	33.3 *	41.4	25.6	23.4	23.5	37.0 *	31.6	35.3	36.2	37.7	32.4	31.4
Strontium (Sr)-Total	N/V	N/V	N/V	0.182	0.179	0.178	0.192	0.194	0.175	0.169	0.171	0.186	0.195	0.176	0.187	0.180	0.177	0.164	0.162
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.01	<0.001	0.0069	0.0022	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.012	0.006	0.36	0.0056	0.0259	0.0315	0.018	<0.0030	0.0054	0.0034	0.0037	0.0057	0.0070	0.0043	<0.0030	0.0079
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	0.76	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<1.5	NT	<2	NT	<2	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW9D															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	01/11/2011	21/05/2012	24/10/2012	23-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**47**	28	13.7	13.3	**12.2**	**12.1**	**29.2**	**11.2**	14	25.3	10.7	28	17.0	6.5	16.9	88.8
Conductivity (umhos/cm)	N/V	N/V	N/V	1150	1150	941	1150	1180	1090	512	953	1230	861	970	1220	1320	853	978	820
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**640**	**600**	**505**	**579**	**564**	**493**	**357**	**446**	441	481	459	542	621	510	477	398
pH (pH units)	6.5-8.5	N/V	8.2	7.52	7.65	7.35	7.82	7.61	7.81	7.91	7.67	7.57	481	7.69	7.41	7.52	7.57	7.66	7.59
Total Dissolved Solids (mg/L)	N/V	N/V	394	**670**	**680**	**560**	**572**	**690**	**674**	272	**586**	722	550	610	666	752	558	534	425
Turbidity (NTU)	1	N/V	N/V	**2.8**	**6.5**	2.7	1.64	0.82	2.1	7.1	2	2.3	8.3	1.21	4.19	1.70	1.16	2	>1000
Alkalinity, Total (mg/L)	30-500	N/V	391.5	**480**	**400**	**366**	**467**	**528**	**487**	292	391	539	472	477	520	600	445	460	405
Ammonia as N (mg/L)	N/V	N/V	N/V	1.6	2.3	1.3	2.14	3.43	1.96	0.051	0.562	2.38	3.18	3.38	4.84	7.87	1.78	2.73	3.33
Chloride (mg/L)	250	250	125.5	51	65	50.2	64.5	56.7	55.9	<2.0	45	52.6	48	53.2	52.6	52	42.8	34.7	31.1
Fluoride (mg/L)	1.5	N/V	0.45	0.1	0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	0.11	<0.1	<0.50	<0.10	0.053	0.056
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	12.8	0.33	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	1.29	<0.50	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	5.4	0.4	<0.10	<0.10	1.09	0.33	<0.10	**5.53**	4.09	<0.1	2.35	1.92	1.12	6.80	3.31	<0.02
Phosphate-P (ortho)	N/V	N/V	N/V	0.004	0.004	<0.0030	<0.0030	<0.003	0.0034	<0.0030	<0.0030	0.003	0.003	0.0065	0.0032	0.0038	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	84	62	45.5	47	60	46.5	2.1	38.1	65.3	26.7	65.4	70.9	76	46.9	49.5	15.8
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.01	<0.01	<0.010	<0.010	0.017	<0.010	<0.010	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	<0.001	0.0018	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0022
Barium (Ba)-Total	1	1	N/V	0.08	0.08	0.079	0.1	0.087	0.091	0.059	0.069	0.072	0.083	0.076	0.105	0.126	0.080	0.085	0.067
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.28	0.21	0.214	0.3	0.269	0.241	0.111	0.149	0.182	0.151	0.200	0.301	0.393	0.159	0.235	0.157
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	144	138	107	126	126	104	108	105	102	115	105	117	137	119	106	98.2
Chromium (Cr)-Total	0.05	0.05	N/V	0.005	0.002	0.0022	0.0012	<0.0010	<0.0010	0.0011	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00063
Cobalt (Co)-Total	N/V	0.1	N/V	0.0017	0.0016	0.00103	0.00133	<0.00050	<0.00050	0.00073	0.00126	0.00136	0.00122	0.00089	0.00122	0.00178	0.00097	0.00120	0.00125
Copper (Cu)-Total	1	0.023	0.5007	0.003	0.002	0.0013	0.0037	0.0031	0.0019	0.0019	0.0011	0.004	<0.0010	0.0016	0.0011	0.0035	0.0019	0.0011	0.0015
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	0.1	0.429	<0.050	<0.050	<0.050	<0.050	0.154	<0.050	0.942	<0.050	0.214	<0.050	<0.050	0.173	2.61
Lead (Pb)-Total	0.01	0.01	0.0027	0.001	<0.001	<0.0010	<0.0010	0.0012	0.0010	<0.0010	<0.0010	<0.0010	0.0017	0.0018	0.0024	0.0031	0.0029	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	68.1	61.3	58.1	64.4	60.5	56.7	41.7	44.7	45.4	46.9	47.4	60.6	67.9	51.8	51.8	37.1
Manganese (Mn)-Total	0.05	N/V	0.09	**0.558**	0.414	0.328	0.406	0.322	0.398	0.323	0.245	0.43	0.323	0.334	0.374	0.533	0.313	0.381	0.251
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.009	0.011	0.006	0.0074	0.0034	0.0066	0.0027	0.0024	0.0039	0.0027	0.0027	0.0037	0.0059	0.0031	0.0033	0.0026
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	12	13	10.5	13.1	13.2	11.5	9.3	8.6	10.4	10.7	9.4	13.7	17.1	9.6	10.7	11.1
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.00068	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	11.6	6.4	7.58	6.78	5	5.4	5.9	4.7	4.5	4.5	5.0	5.6	5.1	5.6	4.8	4.4
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	17.8	18.6	13.6	23	25.2 *	19.6	11.2	12.9	13.7	19.7	17.4	23.5	30.4	12.8	17.4	17.6
Strontium (Sr)-Total	N/V	N/V	N/V	0.279	0.262	0.217	0.279	0.278	0.247	0.192	0.219	0.217	0.209	0.219	0.241	0.335	0.221	0.234	0.201
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.00033	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.011	<0.001	0.0058	0.0021	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.059	0.02	0.0055	0.0091	0.0488	0.0134	0.0134	0.0087	0.0357	0.025	0.0108	0.0151	0.0239	0.0711	0.0098	0.0079
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	1.3	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	0.59	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	3	NT	<1	NT	<1	NT	<1	NT	<1	NT	1.3	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				OW10S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	31/10/2011	21/05/2012	24/10/2012	23-Apr-13	04-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**45**	**24**	37	23.9	53.5	10.9	**29.2**	**29.3**	88.7	28.7	26.9	45.6	51.7	34.4	87	131
Conductivity (umhos/cm)	N/V	N/V	N/V	397	706	475	648	533	624	512	842	500	806	402	589	526	392	533	1150
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**260**	**430**	**277**	**356**	**306**	314	**357**	**418**	269	512	303	328	302	375	286	592
pH (pH units)	6.5-8.5	N/V	8.2	7.65	7.72	7.85	7.9	7.8	7.99	7.91	7.99	7.79	7.98	7.94	7.55	7.88	7.5	7.83	7.54
Total Dissolved Solids (mg/L)	N/V	N/V	394	180	**410**	256	348	292	378	272	494	256	528	290	343	280	354	282	570
Turbidity (NTU)	1	N/V	N/V	**12.3**	**8.1**	**88**	**3.7**	**12.1**	6.9	**7.1**	**5.9**	193	8.9	24	251	10.2	10.8	40	>1000
Alkalinity, Total (mg/L)	30-500	N/V	391.5	220	**420**	264	382	314	372	292	**427**	283	458	298	341	321	379	327	516
Ammonia as N (mg/L)	N/V	N/V	N/V	0.07	0.12	0.052	0.061	0.083	0.051	0.051	0.927	0.196	1.01	0.082	<0.05	<0.050	<0.050	<0.05	3.24
Chloride (mg/L)	250	250	125.5	<2	5	<2.0	<2.0	<2	<2	<2.0	18.4	<2	20.9	3	<10	<2.0	<2.0	0.76	32.1
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	0.046	<0.1
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.10	<0.10	<0.1	**<0.1**	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	<0.01	<0.05
Nitrate-N (mg/L)	10	10	2.6	<0.1	0.2	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	<0.02	<0.1
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	<0.003	<0.0030	<0.0030	<0.003	0.0032	<0.0030	0.0038	<0.003	<0.003	<0.003	0.0031	<0.003	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	6	5	<2.0	3.7	<2	3.2	2.1	34.4	2.8	59.3	8.8	<10	2.5	<2	3.28	85
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	0.04	<0.010	0.032	<0.010	<0.010	0.213	<0.010	<0.010	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	0.227
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	0.0014	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0012
Barium (Ba)-Total	1	1	N/V	0.02	0.04	0.033	0.041	0.019	0.043	0.035	0.037	0.033	0.081	0.034	0.027	0.028	0.024	0.014	0.099
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.237	<0.050	<0.050	<0.050	<0.050	<0.050	0.321
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	0.000107	0.000098	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	66.6	113	66.3	87.8	78.5	75.8	104	70.5	70.3	122	76.7	83.6	76.2	95.2	69.9	136
Chromium (Cr)-Total	0.05	0.05	N/V	0.003	<0.001	<0.0010	<0.0010	<0.0010	0.0010	0.0011	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00112
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	0.0006	0.00066	0.00059	<0.00050	<0.00050	0.00054	<0.00050	<0.00050	0.00179	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00281
Copper (Cu)-Total	1	0.023	0.5007	**0.027**	0.002	0.0013	0.0028	<0.0010	<0.0010	0.0015	0.0027	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	<0.05	<0.050	<0.050	0.081	<0.050	0.342	0.077	0.063	1.03	0.136	0.170	<0.050	0.253	0.345	0.688
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0017
Magnesium (Mg)-Total	N/V	N/V	87	22.5	35	27	33.2	26.6	30.3	23.8	23.3	22.8	50.7 *	27.2	28.9	27.1	33.5	27.1	61.5
Manganese (Mn)-Total	0.05	N/V	0.09	0.211	0.478	0.377	0.338	0.219	0.287	0.349	0.291	0.232	0.757	0.305	0.246	0.167	0.251	0.282	1.08
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.004	0.007	0.0043	0.0061	<0.0020	0.0045	<0.0020	0.0024	<0.0020	0.0065	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0096
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	0.081	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	<1	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3	<1.0	<1.0	<1.0	<1.0	<1.0	4.8
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	6.1	5.5	3.89	3.59	2	2.5	3	1.9	2.1	4.9	2.1	2.4	2.1	2.8	1.9	5.6
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	4.1	7	2.35	3.44	1.43	2.44	1.46	3.23	1.51	17.7	2.75	1.77	1.92	1.57	1.23	26.7
Strontium (Sr)-Total	N/V	N/V	N/V	0.059	0.125	0.0656	0.096	0.0734	0.0896	0.0888	0.0787	0.0696	0.166	0.0749	0.0779	0.0786	0.0918	0.0630	0.222
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	0.023	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0097
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.007	0.004	0.0026	0.0015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.028	0.004	0.008	0.0147	0.0059	0.0084	0.359	0.0088	0.0035	0.0115	0.0038	0.0092	0.0051	0.0045	0.0035	0.0159
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW10D															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	05/05/2010	10/11/2010	10/05/2011	31/10/2011	21/05/2012	24/10/2012	23-Apr-13	04-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**27**	**15**	19.1	7.8	11.6	4.2	**5.2**	**29.3**	19.1	22.7	8.6	12.7	6.1	27.5	12.9	65.5
Conductivity (umhos/cm)	N/V	N/V	N/V	664	711	581	692	565	633	590	842	587	987	424	640	617	380	616	1270
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**390**	**390**	**313**	**365**	**307**	**307**	**344**	**418**	298	623	320	337	306	352	320	603
pH (pH units)	6.5-8.5	N/V	8.2	7.68	7.72	7.83	7.79	7.85	8.02	7.92	7.99	7.77	7.96	7.97	7.63	7.87	7.68	7.86	7.73
Total Dissolved Solids (mg/L)	N/V	N/V	394	330	**420**	310	370	318	370	320	494	310	720	308	350	329	340	328	686
Turbidity (NTU)	1	N/V	N/V	**7.5**	**4.2**	13.5	1.3	2.5	6.3	5.3	5.9	41	5.3	1.98	11.9	1.03	9.11	3	55.4
Alkalinity, Total (mg/L)	30-500	N/V	391.5	340	380	302	375	313	357	325	427	312	530	312	356	338	353	367	558
Ammonia as N (mg/L)	N/V	N/V	N/V	0.66	0.78	0.566	0.569	0.349	0.28	0.208	0.927	0.453	3.32	0.621	0.526	0.213	0.227	0.139	5.97
Chloride (mg/L)	250	250	125.5	16	17	6.7	8.9	3.9	4.2	4.3	18.4	5.2	33.2	5.4	<10	3.0	2.6	2.46	16
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	0.051	<0.1
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	<0.01	<0.05
Nitrate-N (mg/L)	10	10	2.6	<0.1	0.2	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	0.11	<0.1
Phosphate-P (ortho)	N/V	N/V	N/V	0.003	<0.003	<0.0030	<0.0030	<0.003	0.0032	0.0038	0.0038	<0.003	<0.003	0.004	<0.003	0.0031	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	27	22	13.5	15.2	8.5	11	9.9	34.4	12.3	96.8	13.7	11	7.8	8.5	7.7	105
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.04	0.02	<0.010	0.037	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0027	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0032
Barium (Ba)-Total	1	1	N/V	0.15	0.07	0.105	0.133	0.085	0.107	0.068	0.181	0.062	0.201	0.062	0.107	0.043	0.093	0.074	0.191
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.09	0.07	0.057	0.073	<0.050	<0.050	<0.050	0.135	<0.050	0.425	<0.050	<0.050	<0.050	<0.050	<0.050	0.439
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	0.00028	0.00015	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000129	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	100	93.1	73.4	87.4	76.1	71.4	89.1	103	75.2	132	77.7	82.7	75.9	86.1	75.2	133
Chromium (Cr)-Total	0.05	0.05	N/V	0.004	<0.001	<0.0010	<0.0010	<0.0010	0.0014	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00094
Cobalt (Co)-Total	N/V	0.1	N/V	0.0027	0.0008	0.00186	0.00187	<0.00050	<0.00050	<0.00050	0.00281	0.00078	0.00558	<0.00050	0.00123	<0.00050	0.00079	<0.00050	0.00688
Copper (Cu)-Total	1	0.023	0.5007	0.006	0.002	0.0051	0.0029	0.0024	0.0022	0.001	0.0021	<0.0010	<0.0010	<0.0010	0.0020	0.0011	0.0016	0.0021	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	0.14	<0.05	<0.050	0.057	<0.050	<0.050	<0.050	0.164	<0.050	2.02	<0.050	<0.050	<0.050	<0.050	<0.050	2.85
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	34.7	38.2	31.4	35.7	28.5	31.4	29.6	39.1	26.8	71.0 *	30.6	31.7	28.2	33.3	32.0	66.0
Manganese (Mn)-Total	0.05	N/V	0.09	**1.9**	0.681	1.28	1.62	0.83	1.04	0.639	2.12	0.641	1.81	0.651	1.00	0.469	0.711	0.494	1.69
Molybdenum (Mo)-Total	N/V	7.3	N/V	0.002	0.001	0.0015	0.0012	0.0013	0.0011	<0.0010	0.0012	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.016	0.01	0.0097	0.0139	0.0066	0.0105	0.0044	0.0152	0.0038	0.0174	0.0041	0.0067	0.0033	0.0047	0.0040	0.0186
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	4	2	1.6	2.1	1.1	1.2	1.3	2.9	1.2	6.6	1.3	1.6	1.1	1.2	<1.0	8.3
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	9.3	6.3	5.09	4.81	3	3.4	4.9	4.3	3.6	6.2	3.8	3.8	2.8	4.0	3.3	6.5
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	14	9.8	6.48	7.13	3.47	4.12	3.5	13.2	3.8	25.7	4.28	4.68	2.78	3.32	2.86	30.9
Strontium (Sr)-Total	N/V	N/V	N/V	0.124	0.146	0.092	0.115	0.0896	0.0974	0.106	0.151	0.104	0.236	0.0989	0.0979	0.0878	0.102	0.0890	0.275
Thallium (Tl)-Total	N/V	0.002	N/V	0.0005	<0.0003	0.00047	0.00069	0.0004	0.00046	<0.00030	0.00113	<0.00030	0.00075	<0.00030	0.00041	<0.00030	0.00034	<0.00030	0.00084
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.009	0.004	0.0024	0.0018	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.215	0.013	0.0318	0.0655	0.0339	0.0430	0.0182	0.0646	0.0148	0.059	0.0147	0.0353	0.0152	0.0293	0.0237	0.0717
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				OW12S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	31/10/2011	21/05/2012	24/10/2012	23-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**140**	80	61.8	86.9	58.9	44.2	**103**	**67.4**	255	94.3	154	90.3	220	88.8	223	195
Conductivity (umhos/cm)	N/V	N/V	N/V	395	601	479	632	594	658	508	736	587	444	361	686	442	380	492	758
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**270**	**350**	**256**	**354**	**342**	**330**	**278**	**363**	287	352	245	335	226	374	249	410
pH (pH units)	6.5-8.5	N/V	8.2	7.94	7.7	7.93	7.84	7.84	7.89	7.94	7.96	7.81	7.99	8.05	7.65	7.36	7.72	7.8	7.63
Total Dissolved Solids (mg/L)	N/V	N/V	394	210	370	258	340	334	386	318	428	346	366	274	411	255	359	280	384
Turbidity (NTU)	1	N/V	N/V	**8.5**	16	161	9	16.4	10.6	20	11.1	>200	21	242	18.2	47.0	20.6	233	>1000
Alkalinity, Total (mg/L)	30-500	N/V	391.5	160	350	236	365	322	380	258	238	237	334	171	237	185	381	266	430
Ammonia as N (mg/L)	N/V	N/V	N/V	0.06	0.06	<0.050	<0.050	0.075	<0.05	<0.050	<0.050	<0.05	0.228	<0.05	<0.05	<0.050	0.058	<0.05	0.164
Chloride (mg/L)	250	250	125.5	5	7	9.4	<2.0	4.4	3.8	7.1	26.9	13.8	11.4	6.1	11.7	4.7	3.1	4.87	16
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	0.054	0.036
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	2.46	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	5.2	0.3	<0.10	<0.10	0.58	<0.1	**3.25**	**19.8**	12.4	<0.1	5.65	17.6	6.88	<0.10	2.93	0.028
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	0.003	0.0034	<0.0030	<0.003	0.0031	<0.0030	<0.0030	0.0031	<0.003	0.0033	<0.003	0.0039	0.0032	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	12	5	11.2	3.2	3.7	2.2	11	16.1	19.7	23.5	41.5	47.5	18.4	5.7	9.22	17
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.02	<0.01	<0.010	0.039	<0.010	<0.010	<0.010	<0.010	0.041	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	1	1	N/V	0.01	0.02	<0.010	0.014	0.017	0.015	0.013	0.021	0.013	0.014	0.013	0.017	<0.010	0.020	0.010	0.025
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.082
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	0.000113	<0.000090	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	67.6	90.6	59	89.4	76.6	82.1	71.9	94.2	75.5	92.4	61.4	84.4	56.6	95.5	61.6	108
Chromium (Cr)-Total	0.05	0.05	N/V	0.002	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00078
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00059
Copper (Cu)-Total	1	0.023	0.5007	0.001	0.003	0.0012	0.0036	0.0016	0.0010	0.0012	0.0018	0.0019	0.002	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	0.0016
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.112	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.073
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	24	30.3	26.4	31.9	26.5	30.4	24	31.1	23.9	29.5	22.3	30.3	20.7	33.0	23.1	34.3
Manganese (Mn)-Total	0.05	N/V	0.09	0.008	0.019	<0.0010	0.0407	0.0066	0.239	0.0048	0.0208	0.0079	0.0512	0.0023	0.0061	<0.0010	0.137	0.0026	0.348
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.003	0.005	0.0021	0.0039	<0.0020	0.0046	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0032
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	3	4.7	2.65	3.31	1.7	2.7	2.4	2.3	1.6	2.5	1.4	1.8	1.2	2.8	1.6	3.8
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	1.6	2.1	1.54	2.01	2	2.26	2.08	3.08	2.44	4.52	1.88	3.19	1.74	3.08	2.11	11.3
Strontium (Sr)-Total	N/V	N/V	N/V	0.06	0.076	0.0534	0.0846	0.0671	0.0820	0.0582	0.0907	0.0692	0.0849	0.0539	0.0689	0.0507	0.0781	0.0568	0.106
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.004	0.004	0.0017	0.0016	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.069	0.01	<0.0030	0.0095	0.015	0.0057	<0.0030	0.0032	0.0954	0.018	0.0035	0.0043	0.0036	0.0047	<0.0030	0.0080
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW12D															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	31/10/2011	21/05/2012	24/10/2012	23-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**40**	56	61.8	86.9	30.4	42.2	**40**	**34**	66.5	35.1	14.2	65.8	62.4	14.0	74	18.3
Conductivity (umhos/cm)	N/V	N/V	N/V	443	569	479	632	531	634	525	721	546	414	438	646	491	367	475	1000
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**280**	**340**	**256**	**354**	**300**	**323**	**279**	**343**	255	316	327	306	268	358	257	471
pH (pH units)	6.5-8.5	N/V	8.2	7.93	7.75	7.93	7.84	7.92	7.96	7.91	7.67	7.9	8.13	8.03	7.65	8.01	7.75	7.89	410
Total Dissolved Solids (mg/L)	N/V	N/V	394	240	350	258	340	310	366	304	462	310	318	340	378	279	333	240	522
Turbidity (NTU)	1	N/V	N/V	**2.7**	8.6	161	9	5.9	5.8	6.2	6.5	26	6	3.19	5.85	9.77	2.40	12.1	32.6
Alkalinity, Total (mg/L)	30-500	N/V	391.5	190	320	236	365	235	347	241	259	231	303	255	234	244	351	242	466
Ammonia as N (mg/L)	N/V	N/V	N/V	<0.05	0.12	<0.050	<0.050	0.07	<0.05	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.050	<0.050	<0.05	0.062
Chloride (mg/L)	250	250	125.5	7	13	9.4	<2.0	12.9	5.8	7.7	21.4	12.2	12.1	12.9	10.3	5.5	2.7	4.81	39.6
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	0.051	0.028
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	2.46	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	8.7	1.3	<0.10	<0.10	6.42	0.49	**4.8**	**15.3**	8.3	1.08	3.4	14.8	3.43	<0.10	1.75	0.088
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	0.004	0.0034	<0.0030	<0.003	<0.003	<0.0030	<0.0030	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	15	8	11.2	3.2	13	9.8	12.6	13.7	15	16.6	47.4	42.2	16	5.7	9.47	22.6
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.04	<0.01	<0.010	0.039	<0.010	<0.010	<0.010	<0.010	0.013	0.023	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	1	1	N/V	<0.01	0.02	<0.010	0.014	0.017	0.015	0.013	0.015	0.011	0.016	0.019	0.016	0.011	0.023	0.011	0.031
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.108
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	0.000184	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000118
Calcium (Ca)-Total	N/V	N/V	N/V	71.3	87.2	59	89.4	76.6	78.4	71.8	87.1	65.1	78.2	81.5	77.3	66.9	91.3	63.4	122
Chromium (Cr)-Total	0.05	0.05	N/V	0.002	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00066
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	0.01	0.002	0.0012	0.0036	0.0016	0.0021	<0.0010	0.0012	0.0023	0.0019	<0.0010	0.0011	0.0019	<0.0010	0.0012	0.0011
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	25.3	29.4	26.4	31.9	26.5	31.0	24.1	30.4	22.6	29.4	30.0	27.6	24.6	31.5	23.9	40.3
Manganese (Mn)-Total	0.05	N/V	0.09	0.008	0.019	<0.0010	0.0407	0.0066	0.116	0.0053	0.0057	<0.0010	0.0585	0.0024	0.0073	<0.0010	0.0412	0.0059	0.244
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.003	0.004	0.0021	0.0039	<0.0020	0.0053	<0.0020	<0.0020	<0.0020	0.0021	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0037
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	1.0	<1.0	<1.0
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.00048	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	2.8	4.7	2.65	3.31	1.7	2.6	2.5	2.2	1.5	2.4	1.9	2.0	1.5	2.8	1.7	4.4
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	4.3	3.2	1.54	2.01	2	2.68	2.21	2.49	2.81	2.31	3.44	3.27	2.61	3.45	2.70	17.0
Strontium (Sr)-Total	N/V	N/V	N/V	0.058	0.069	0.0534	0.0846	0.0671	0.0787	0.06	0.0831	0.0603	0.0654	0.0722	0.0777	0.0611	0.0850	0.0598	0.119
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0272	0.0058	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.003	0.003	0.0017	0.0016	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.166	0.007	<0.0030	0.0095	0.015	0.0207	0.0032	0.0078	0.013	0.0502	0.0138	0.0061	0.0154	0.0077	0.0128	0.0208
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004		<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				OW13S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	31/10/2011	21/05/2012	24/10/2012	23-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**72**	32	83.2	52.3	75.4	69	**79.7**	**56.5**	113	32.2	171	201	153	152	136	115
Conductivity (umhos/cm)	N/V	N/V	N/V	243	554	330	621	443	673	417	355	361	671	288	537	389	345	491	659
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**180**	**310**	**264**	**360**	**281**	**344**	**268**	**224**	225	423	185	290	236	331	251	380
pH (pH units)	6.5-8.5	N/V	8.2	8.1	7.96	7.82	8	7.91	8	7.94	7.84	7.83	8.04	8.05	7.8	7.55	7.64	7.91	7.69
Total Dissolved Solids (mg/L)	N/V	N/V	394	150	**340**	192	336	260	**414**	254	232	275	436	186	306	220	320	296	340
Turbidity (NTU)	1	N/V	N/V	**17.5**	**21**	82	7.9	20	6.9	**14.5**	**16.1**	>200	10.5	154	13	43.0	66.8	65	>1000
Alkalinity, Total (mg/L)	30-500	N/V	391.5	130	270	187	292	199	305	209	206	181	383	171	266	192	307	285	380
Ammonia as N (mg/L)	N/V	N/V	N/V	0.07	0.2	0.069	<0.050	<0.05	<0.05	<0.050	<0.050	0.055	<0.05	<0.05	0.053	<0.050	<0.050	0.068	<0.05
Chloride (mg/L)	250	250	125.5	<2	9	<2.0	2.6	2.8	3.6	2.5	<2.0	2.1	2.9	<2	2	<2.0	<2.0	2.17	1.07
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	0.047	0.038
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	<0.1	0.3	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	0.033	<0.02
Phosphate-P (ortho)	N/V	N/V	N/V	0.004	0.004	0.0034	<0.0030	0.0032	0.0031	0.0034	<0.0030	<0.003	<0.003	<0.003	<0.003	0.0031	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	7	40	18.9	60.6	51.5	72.6	24.1	30.1	18.7	54.1	13	28.3	5.8	18.9	18.3	14.6
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.03	<0.01	0.157	0.095	0.017	<0.010	0.014	<0.010	0.061	<0.010	0.020	<0.010	0.013	<0.010	0.020	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	1	1	N/V	0.01	0.02	0.057	0.024	0.015	0.022	0.012	0.013	0.016	0.022	<0.010	0.015	0.013	0.017	0.014	0.020
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000257	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	43.7	80.4	68.1	91.8	72.7	85.3	72.8	58.9	59.8	113	45.8	74.9	60.0	85.2	63.0	101
Chromium (Cr)-Total	0.05	0.05	N/V	0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	0.002	0.001	0.0018	0.002	0.0014	0.0011	<0.0010	0.0011	0.0016	<0.0010	0.0013	0.0015	<0.0010	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	<0.05	<0.050	0.362	0.156	0.320	<0.050	0.177	0.094	0.071	<0.050	0.119	0.139	0.140	0.132	0.305
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0114	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	16.4	26.1	22.8	31.7	24.3	31.8	20.9	18.7	18.4	34.3	17.2	24.9	20.8	28.7	22.7	30.8
Manganese (Mn)-Total	0.05	N/V	0.09	0.066	0.155	0.0782	0.148	0.123	0.0439	0.0277	0.0616	0.0373	0.0888	0.0043	0.0200	0.103	0.0297	0.0798	0.0983
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	<0.002	0.004	0.0027	0.0047	<0.0020	0.0034	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	<1	1	<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
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.00053	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	2.3	4	2.87	4.13	1.5	2.9	2.2	1.7	1.6	3.2	1.1	2.2	1.4	2.7	1.8	2.9
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	1.6	3.8	2.51	3.74	3.03	3.99	2.22	2.25	2.38	4.69	1.33	2.80	2.44	3.54	3.32	3.61
Strontium (Sr)-Total	N/V	N/V	N/V	0.051	0.102	0.0731	0.102	0.0836	0.104	0.0685	0.0679	0.0736	0.121	0.0459	0.0826	0.0719	0.0970	0.0801	0.119
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	0.0023	<0.0020	<0.0020	<0.0020	<0.0020	0.0044	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.003	0.002	0.0026	0.0022	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.006	0.007	0.239	0.13	0.016	0.0066	0.0122	0.0102	0.0524	<0.0030	0.0184	0.0065	0.0042	0.0031	0.0055	0.0048
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW13D															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	31/10/2011	21/05/2012	24/10/2012	23-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**30**	**103**	**53.8**	**82.8**	**70.3**	**29.2**	**80.1**	**40.3**	85.3	75.7	125	103	191	72.3	184	192
Conductivity (umhos/cm)	N/V	N/V	N/V	1040	921	797	692	909	762	764	796	718	729	660	846	870	875	903	943
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**610**	**490**	**447**	**364**	**476**	**403**	**419**	**403**	485	420	356	406	415	436	414	498
pH (pH units)	6.5-8.5	N/V	8.2	7.51	7.6	7.76	8.03	7.73	7.94	7.86	7.68	7.67	8.04	8	7.48	7.08	7.79	7.68	7.77
Total Dissolved Solids (mg/L)	N/V	N/V	394	**670**	**580**	**520**	**406**	**592**	**584**	506	510	488	494	430	500	530	538	537	536
Turbidity (NTU)	1	N/V	N/V	**3.5**	**26**	**24**	**7.8**	**17.5**	**8.8**	>200	14.8	>200	21	44	20.1	63.0	37.9	120	522
Alkalinity, Total (mg/L)	30-500	N/V	391.5	440	370	370	309	346	355	335	397	318	376	337	390	395	448	466	464
Ammonia as N (mg/L)	N/V	N/V	N/V	0.73	0.89	0.987	0.139	0.618	0.252	0.357	0.48	0.243	0.651	0.639	0.855	0.870	0.835	1.46	1.46
Chloride (mg/L)	250	250	125.5	20	21	12.6	10.1	11.8	10.8	9.6	11.5	9.4	10.6	9.9	8.7	9.3	7.7	10.5	9.07
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	0.044	0.028
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.50	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	0.11	<0.1	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	<0.1	0.8	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	0.17	<0.1	<0.1	<0.1	0.25	<0.10	0.031	0.047
Phosphate-P (ortho)	N/V	N/V	N/V	0.004	0.003	0.003	<0.0030	<0.003	0.0034	0.0034	<0.0030	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	159	122	152	73.7	160	102	93	116	77	89.5	90.3	78.8	82.4	57.4	80.8	106
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	<0.01	0.022	0.023	0.044	<0.010	0.109	<0.010	0.021	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.005	0.002	<0.0010	0.0022	0.0014	0.0025	0.0013	0.0027	<0.0010	0.0014	<0.0010	0.0014	<0.0010	0.0014	<0.0010	0.0020
Barium (Ba)-Total	1	1	N/V	0.06	0.04	0.043	0.028	0.043	0.042	0.035	0.032	0.051	0.036	0.034	0.045	0.031	0.038	0.035	0.056
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.19	0.11	0.123	<0.050	0.114	0.066	0.059	<0.050	0.109	0.066	<0.050	0.087	0.079	0.080	0.104	0.107
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.000314	<0.000090	0.000096	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	151	133	109	88.4	126	97.3	115	105	130	109	91.9	106	109	113	106	129
Chromium (Cr)-Total	0.05	0.05	N/V	0.004	0.001	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00098
Cobalt (Co)-Total	N/V	0.1	N/V	0.0007	0.0006	0.00067	0.00065	<0.00050	<0.00050	<0.00050	<0.00050	0.00093	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	<0.001	0.001	<0.0010	0.003	<0.0010	0.0015	0.0015	<0.0010	0.0047	<0.0010	0.0025	0.0015	<0.0010	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	**1.32**	0.4	0.649	1.02	2.02	2.29	**0.805**	1.7	0.125	1.77	0.082	1.40	0.969	1.44	1.26	2.25
Lead (Pb)-Total	0.01	0.01	0.0027	0.001	<0.001	<0.0010	0.001	<0.0010	0.0016	0.0022	<0.0010	0.0239	<0.0010	0.0061	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	55.4	38.5	42.4	34.8	39.4	38.9	32.1	34.3	39.1	35.8	30.8	34.5	34.6	37.5	36.1	42.8
Manganese (Mn)-Total	0.05	N/V	0.09	**0.317**	0.176	0.208	0.207	0.209	0.103	0.124	0.1	0.188	0.121	0.0269	0.160	0.208	0.124	0.193	0.219
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	0.0014	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.008	0.007	0.0061	0.0065	<0.0020	0.0063	<0.0020	0.0022	0.003	<0.0020	0.0024	0.0021	<0.0020	<0.0020	<0.0020	0.0021
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	3	2	2.1	1.1	2.2	1.3	1.9	1.1	2.4	1.6	1.3	1.9	1.9	2.1	2.2	2.8
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	8.9	6.2	6.12	4.84	3.2	3.8	4.3	3.7	3.7	3.7	3.7	3.6	3.3	4.2	3.5	3.8
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	14.9	11.9	10.5	6.76	9.45	8.26	6.77	6.26	9.88	7.4	6.69	8.67	8.04	8.41	9.05	9.40
Strontium (Sr)-Total	N/V	N/V	N/V	0.235	0.159	0.156	0.107	0.19	0.147	0.138	0.141	0.212	0.153	0.122	0.162	0.166	0.168	0.171	0.218
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.00041	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	0.002	<0.0020	0.0021	0.0029	0.0027	0.0026	<0.0020	0.003	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.009	0.004	0.0042	0.0016	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.078	0.014	0.104	0.0816	0.0996	0.0549	0.203	0.0648	0.745	0.0223	0.172	0.0529	0.0192	0.0202	0.0281	0.0623
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				OW15S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	31/10/2011	21/05/2012	24/10/2012	23-Apr-13	04-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**36**	**40**	**36**	**28.1**	**43.4**	**23.7**	38.5	**37.2**	140	36.5	121	39.6	38.5	62.7	94	140
Conductivity (umhos/cm)	N/V	N/V	N/V	505	578	644	705	747	788	840	758	747	457	631	688	669	407	727	767
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**330**	500	385	419	476	401	450	407	372	377	363	368	383	420	382	405
pH (pH units)	6.5-8.5	N/V	8.2	7.98	7.96	7.91	8.05	7.86	7.79	7.82	7.76	7.77	8.09	7.96	7.72	7.81	7.67	7.74	7.68
Total Dissolved Solids (mg/L)	N/V	N/V	394	280	360	364	**398**	**438**	**474**	**476**	**452**	416	388	378	418	388	394	414	354
Turbidity (NTU)	1	N/V	N/V	**2.8**	11.3	20	5.1	10.4	6.2	8.2	10.5	>200	13	84	226	7.81	29.2	55	>1000
Alkalinity, Total (mg/L)	30-500	N/V	391.5	260	300	371	**404**	**446**	**491**	**498**	**453**	427	394	397	393	427	439	445	442
Ammonia as N (mg/L)	N/V	N/V	N/V	0.09	0.08	<0.050	<0.050	0.08	0.067	<0.050	<0.050	<0.05	0.152	<0.05	<0.05	<0.050	<0.050	<0.05	<0.05
Chloride (mg/L)	250	250	125.5	<2	6	<2.0	16	<2	<2	<2.0	<2.0	<2	<2	<2	<10	<2.0	<2.0	<0.5	8.44
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	0.059	0.048
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	<0.1	0.3	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	0.57	<0.5	<0.10	<0.10	<0.02	<0.02
Phosphate-P (ortho)	N/V	N/V	N/V	0.004	0.003	0.0036	0.0032	0.0036	0.004	0.0039	<0.0030	<0.003	<0.003	0.0035	<0.003	0.0039	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	23	20	21.4	16	12.5	10.7	10.5	19.3	20.6	27.7	25.8	18	17.7	13.4	18.9	23.3
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.05	1.31	0.088	0.123	0.121	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.017	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	0.002	<0.0010	0.0015	0.001	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	1	1	N/V	0.03	0.05	0.043	0.046	0.045	0.045	0.049	0.032	0.039	0.03	0.036	0.026	0.034	0.042	0.035	0.035
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	86.9	128	91.9	99.7	117	95.2	115	103	94.5	95.6	88.3	91.4	94.8	105	92.9	105
Chromium (Cr)-Total	0.05	0.05	N/V	0.002	0.001	<0.0010	<0.0010	<0.0010	0.0012	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00056
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	0.0008	<0.00050	0.00055	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	0.002	0.007	0.0018	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	1.13	<0.050	0.567	0.469	0.216	0.153	0.158	0.054	0.253	0.097	0.139	0.102	0.374	0.137	0.112
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	0.003	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	27.7	44.6	37.7	41.3	44.6	39.7	39.4	36.4	33	33.5	34.5	34.0	35.6	38.3	36.5	34.4
Manganese (Mn)-Total	0.05	N/V	0.09	0.039	0.096	0.0209	0.103	0.149	0.136	0.169	0.134	0.134	0.0607	0.0591	0.205	0.0948	0.122	0.104	0.137
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.003	0.006	0.0034	0.0042	<0.0020	0.0038	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	0.06	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	<1	1	<1.0	1	1	<1.0	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	6.8	12.3	6.62	7.12	5.4	5.7	6.8	5.6	5.3	5.4	5.4	5.4	5.1	6.6	5.6	5.9
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	4.9	5.7	6.07	5.74	5.8	4.86	4.86	4.54	4.27	4.56	4.77	4.58	4.58	4.69	4.51	4.14
Strontium (Sr)-Total	N/V	N/V	N/V	0.13	0.164	0.149	0.163	0.182	0.161	0.173	0.165	0.151	0.147	0.140	0.132	0.145	0.165	0.141	0.165
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	0.061	<0.0020	<0.0020	0.0049	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.005	0.006	0.0037	0.0034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.19	0.026	0.167	0.0098	0.0057	<0.0030	0.0059	<0.0030	0.0101	<0.0030	<0.0030	0.0042	<0.0030	<0.0030	<0.0030	<0.0030
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.004	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW15D															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	31/10/2011	21/05/2012	24/10/2012	23-Apr-13	04-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**42**	**45**	**34.7**	**32.5**	**46.5**	**49.5**	**37.8**	**59.6**	95.5	28.8	52.8	173	43.3	64.9	74.5	79.3
Conductivity (umhos/cm)	N/V	N/V	N/V	757	760	694	735	773	671	723	670	679	446	667	655	699	683	709	731
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**450**	**400**	**363**	**395**	**408**	**342**	365	339	343	353	347	329	350	372	359	388
pH (pH units)	6.5-8.5	N/V	8.2	7.68	7.78	7.88	7.94	7.77	7.99	7.88	7.77	7.79	8.06	7.98	7.63	7.84	7.76	7.65	7.76
Total Dissolved Solids (mg/L)	N/V	N/V	394	**440**	**470**	**406**	**430**	**464**	**404**	**444**	**412**	390	378	398	382	393	377	382	390
Turbidity (NTU)	1	N/V	N/V	**2**	**9**	164	2.9	9.5	6.2	7.1	6.4	101	5.1	20.2	112	11.3	16.0	19	104
Alkalinity, Total (mg/L)	30-500	N/V	391.5	370	360	341	354	374	324	351	341	335	342	341	341	370	361	384	383
Ammonia as N (mg/L)	N/V	N/V	N/V	0.42	0.58	0.294	0.638	0.963	0.42	0.503	0.425	0.334	0.664	0.674	0.6	0.607	0.645	0.753	0.884
Chloride (mg/L)	250	250	125.5	14	13	9.4	9.4	12.3	6.4	8.5	5.9	6.8	5	9.1	<10	6.1	5.6	6.84	8.44
Fluoride (mg/L)	1.5	N/V	0.45	0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	0.06	0.05
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	0.28	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.5	<0.10	<0.10	0.021	<0.02
Phosphate-P (ortho)	N/V	N/V	N/V	0.004	0.003	<0.0030	<0.0030	<0.003	0.0034	<0.0030	<0.0030	<0.003	<0.003	0.0032	<0.003	0.0032	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	58	53	50.1	54.2	65	49.3	50.2	48.5	44.7	39.5	44.8	36	33.8	32	34	32.3
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.02	0.01	<0.010	0.049	<0.010	0.019	<0.010	<0.010	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.006	0.004	<0.0010	0.0039	0.0044	0.0039	0.0024	0.0033	0.0031	0.0028	0.0010	0.0031	0.0027	0.0037	0.0030	0.0030
Barium (Ba)-Total	1	1	N/V	0.05	0.05	0.041	0.041	0.059	0.046	0.049	0.029	0.047	0.032	0.046	0.022	0.040	0.048	0.042	0.051
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.1	0.09	0.082	0.074	0.093	0.057	0.059	<0.050	<0.050	0.051	0.056	<0.050	<0.050	0.058	0.056	0.079
Cadmium (Cd)-Total	0.005	0.005	N/V	0.0002	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	108	97.3	83.3	94.2	101	81.0	93.7	84.9	88.5	88.8	85.5	83.0	88.3	91.3	87.7	101
Chromium (Cr)-Total	0.05	0.05	N/V	0.003	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00068
Cobalt (Co)-Total	N/V	0.1	N/V	0.0008	0.0007	<0.00050	0.0009	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00060
Copper (Cu)-Total	1	0.023	0.5007	0.007	0.032	0.0012	0.0018	<0.0010	<0.0010	0.0039	<0.0010	0.0014	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	**2.15**	2.44	0.235	1.82	2.78	**1.64**	**1.25**	**1.56**	1.52	1.41	0.557	1.37	1.51	2.29	1.81	1.95
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	0.002	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	43.1	37.6	37.6	38.7	38	33.9	31.9	30.8	29.6	31.9	32.4	29.6	31.5	34.8	34.0	32.6
Manganese (Mn)-Total	0.05	N/V	0.09	**0.163**	0.144	0.0696	0.178	0.175	0.144	0.0673	0.117	0.119	0.109	0.0738	0.134	0.104	0.135	0.119	0.218
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.006	0.006	0.0041	0.0045	<0.0020	0.0037	0.0026	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	3	2	1.7	1.7	2.4	1.4	2	1.4	1.6	1.3	1.6	1.2	1.3	1.7	1.4	1.9
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.00049	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	8.9	5.3	6.24	5.73	4.7	4.9	5.7	4.1	4.7	4.2	4.9	4.4	4.3	5.2	4.6	4.8
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	13.9	12.5	9.11	7.47	10.8	6.30	7	5.14	5.73	5.54	6.22	4.82	6.01	6.51	6.72	7.68
Strontium (Sr)-Total	N/V	N/V	N/V	0.159	0.144	0.132	0.141	0.164	0.130	0.14	0.133	0.141	0.124	0.130	0.116	0.128	0.146	0.129	0.158
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	0.0023	<0.0020	0.0021	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.007	<0.001	0.0019	0.0022	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.09	0.033	0.0057	0.0131	0.0234	0.0048	0.0149	0.0055	0.0341	0.0039	0.0461	0.0053	0.0060	0.0116	0.0057	0.0046
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				OW16S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	01/11/2011	21/05/2012	24/10/2012	23-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**35**	**23**	41.8	15.9	**24**	**59**	**27.1**	**46.6**	94.1	57.8	50.7	46.4	44.6	45.9	140	230
Conductivity (umhos/cm)	N/V	N/V	N/V	538	845	549	636	746	760	638	634	589	656	667	714	584	772	573	805
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**320**	**600**	317	330	**381**	**450**	**402**	**366**	370	433	407	394	354	504	332	455
pH (pH units)	6.5-8.5	N/V	8.2	7.86	7.77	7.91	8	7.83	7.9	7.92	7.73	7.88	8.27	7.89	7.72	7.96	7.54	7.81	7.68
Total Dissolved Solids (mg/L)	N/V	N/V	394	270	**500**	294	360	**432**	**450**	368	384	326	394	408	404	340	482	328	408
Turbidity (NTU)	1	N/V	N/V	**10**	**8.1**	17.5	1.9	**9.6**	**6.4**	**10.2**	**11.1**	>200	13	44	10.3	11.5	19.2	51	>1000
Alkalinity, Total (mg/L)	30-500	N/V	391.5	290	**410**	279	336	**425**	**441**	345	364	290	403	401	349	334	479	337	470
Ammonia as N (mg/L)	N/V	N/V	N/V	0.09	0.53	0.054	0.068	0.166	0.264	0.064	0.07	0.066	0.058	0.057	<0.05	<0.050	0.062	0.057	0.23
Chloride (mg/L)	250	250	125.5	10	19	11.6	11.8	10.3	10.3	10.7	9.3	15.7	14.5	12.6	11.3	10.3	12.3	6.39	11.7
Fluoride (mg/L)	1.5	N/V	0.45	0.1	0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	0.048	0.041
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	0.37	0.15	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.01	0.019
Nitrate-N (mg/L)	10	10	2.6	0.8	0.5	<0.10	<0.10	<0.1	<0.1	0.19	0.14	0.54	<0.1	0.3	2.23	3.11	0.20	0.261	0.105
Phosphate-P (ortho)	N/V	N/V	N/V	0.003	0.003	0.0034	<0.0030	0.0036	0.0039	0.0036	0.0032	0.0032	<0.003	0.0034	0.0035	0.0042	0.0035	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	9	11	7	7	7.6	8.1	6.1	4.8	6.7	8.1	9.2	12.6	12.9	13.3	7.66	10.3
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	0.02	<0.010	0.018	<0.010	<0.010	0.038	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	0.001	<0.0010	<0.0010	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	1	1	N/V	0.02	0.07	0.024	0.022	0.029	0.056	0.031	0.034	0.047	0.052	0.043	0.048	0.032	0.041	0.028	0.049
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	<0.05	0.12	<0.050	<0.050	<0.050	0.103	<0.050	<0.050	0.069	0.074	0.056	0.065	<0.050	0.058	<0.050	0.079
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000166	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	85	150	83.4	87.6	101	104	112	100	96.3	111	105	107	95.2	142	89.0	123
Chromium (Cr)-Total	0.05	0.05	N/V	0.003	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00057
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	0.0019	<0.00050	0.00055	<0.00050	0.00053	<0.00050	<0.00050	0.00054	0.00052	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	0.002	0.002	0.002	0.0025	<0.0010	0.0017	0.0013	0.0016	0.0015	<0.0010	<0.0010	0.0013	0.0014	0.0014	0.0012	0.0011
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	0.1	<0.050	0.131	<0.050	0.283	<0.050	<0.050	<0.050	0.655	<0.050	0.129	0.089	0.180	<0.050	0.800
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	26.5	53.5	26.3	27.1	31.1	46.3	29.5	28.1	31.5	37.8	35.4	30.9	28.3	36.3	26.7	36.2
Manganese (Mn)-Total	0.05	N/V	0.09	0.047	0.327	0.071	0.0843	0.0579	0.346	0.0308	0.0717	0.128	0.121	0.0552	0.0609	0.0727	0.0689	0.0585	0.0703
Molybdenum (Mo)-Total	N/V	7.3	N/V	0.001	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.004	0.012	0.004	0.0045	<0.0020	0.0067	<0.0020	<0.0020	0.0027	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	<1	7	1.5	1.4	2.6	4.6	2.5	2.2	3.9	4	2.9	3.1	2.2	2.7	1.9	4.3
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	10.4	7.8	6.15	6.67	4.8	7.1	6.3	6.6	5.4	6.7	5.9	5.3	4.7	7.5	5.1	6.5
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	6.6	16.2	7.43	6.55	7.27	12.0	7.34	7.86	9.48	10.3	9.01	9.80	6.73	8.16	5.97	8.16
Strontium (Sr)-Total	N/V	N/V	N/V	0.108	0.23	0.117	0.139	0.161	0.197	0.149	0.165	0.166	0.185	0.160	0.144	0.139	0.212	0.126	0.204
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.007	0.001	0.0026	0.0013	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.01	0.063	0.0069	0.0352	0.0083	0.0172	0.0662	0.0037	0.0045	0.0031	0.0036	0.0069	0.0034	0.0055	<0.0030	0.0039
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1.0	NT	<1.0	NT	<1.0	NT	<1.0	NT	<1.0	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW16D															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	01/11/2011	21/05/2012	24/10/2012	23-Apr-13	05-Nov-13	28/04/201	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**27**	**25**	**18.6**	**19.8**	**33.9**	**12**	**23.7**	**35.5**	35.8	31.1	29.4	39	25.1	58.4	47.5	156
Conductivity (umhos/cm)	N/V	N/V	N/V	1030	1350	973	1320	1340	1330	1020	1210	1210	1240	1010	1210	1190	1050	1190	1430
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**560**	**570**	**489**	**601**	**567**	**616**	487	577	587	697	506	550	628	610	545	619
pH (pH units)	6.5-8.5	N/V	8.2	7.62	7.57	7.76	7.75	7.67	7.79	7.79	7.59	7.66	7.81	7.82	7.44	7.69	7.48	7.6	7.43
Total Dissolved Solids (mg/L)	N/V	N/V	394	**570**	**840**	**566**	**714**	**778**	**788**	**646**	**716**	712	814	634	674	675	708	633	715
Turbidity (NTU)	1	N/V	N/V	**5.2**	**4.2**	**5.8**	**1.5**	**5.5**	**4.2**	4.8	3.5	33	3.7	5.08	8.74	3.54	7.85	8.4	70.8
Alkalinity, Total (mg/L)	30-500	N/V	391.5	**430**	**500**	**419**	**563**	**600**	**587**	**457**	**586**	516	657	504	520	491	574	566	648
Ammonia as N (mg/L)	N/V	N/V	N/V	1.2	3.4	1.72	3.2	4.64	3.66	1.65	4.15	3.06	10.9	5.28	5.07	4.16	5.74	5.35	13.6
Chloride (mg/L)	250	250	125.5	42	61	39.8	55.1	57.7	59.9	42.2	57.4	54.4	80.7	51.9	63.8	52	57.7	53.1	53.6
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.50	<0.10	0.058	<0.1
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	3.78	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.50	<0.10	<0.01	<0.05
Nitrate-N (mg/L)	10	10	2.6	3.1	0.4	<0.10	<0.10	<0.1	<0.1	2.29	0.12	0.87	<0.1	0.68	0.15	0.69	<0.10	0.143	<0.1
Phosphate-P (ortho)	N/V	N/V	N/V	0.003	0.003	<0.0030	<0.0030	<0.003	0.0042	0.0031	<0.0030	0.0033	0.0031	0.0034	0.0033	0.0041	0.0082	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	85	125	70.8	80.7	91.8	85.8	58.3	87	84	90.5	80.3	89	66	79.8	62.8	73.5
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	<0.01	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.002	0.001	<0.0010	<0.0010	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	0.0054	<0.0010	0.0046	<0.0010	0.0025	<0.0010	0.0033
Barium (Ba)-Total	1	1	N/V	0.09	0.14	0.089	0.101	0.107	0.056	0.082	0.139	0.117	0.21	0.118	0.134	0.121	0.139	0.125	0.175
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.22	0.35	0.24	0.32	0.307	0.103	0.17	0.327	0.267	0.598	0.320	0.329	0.315	0.425	0.315	0.529
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	0.000127	0.000127	<0.000090	0.000122	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	124	153	101	131	125	104	118	128	119	147	103	116	140	135	119	134
Chromium (Cr)-Total	0.05	0.05	N/V	0.006	0.002	0.0016	0.0012	<0.0010	<0.0010	0.001	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00092
Cobalt (Co)-Total	N/V	0.1	N/V	0.0027	0.0033	0.00222	0.00318	0.00114	0.00053	0.00186	0.00322	0.0026	0.00289	0.00220	0.00188	0.00225	0.00314	0.00262	0.00246
Copper (Cu)-Total	1	0.023	0.5007	0.002	0.005	0.0066	0.0019	0.0013	0.0017	0.0018	0.0026	0.0016	<0.0010	0.0011	<0.0010	0.0015	0.0015	0.0020	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	0.48	<0.050	0.16	0.186	0.283	<0.050	0.302	0.153	5.37	0.087	0.790	0.423	1.55	0.270	6.27
Lead (Pb)-Total	0.01	0.01	0.0027	0.001	0.002	<0.0010	0.0025	0.0018	<0.0010	0.0014	0.0023	0.0022	0.0055	0.0015	0.0045	0.0027	0.0052	0.0048	0.0052
Magnesium (Mg)-Total	N/V	N/V	87	62	80	57.7	66.7	61.8	46.3	46.7	62.7	70.2 *	80.3 *	60.1	63.3	67.6	66.4	60.3	69.0
Manganese (Mn)-Total	0.05	N/V	0.09	**0.477**	0.676	0.465	0.714	0.525	0.346	0.451	0.557	0.517	0.574	0.317	0.254	0.541	0.558	0.569	0.489
Molybdenum (Mo)-Total	N/V	7.3	N/V	0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.013	0.019	0.0089	0.013	0.0064	0.0067	0.0063	0.0077	0.0082	0.0076	0.0060	0.0062	0.0072	0.0088	0.0082	0.0068
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	12	16	9.2	10.9	13.3	4.6	11.5	15.1	13	24.9	12.3	12.9	12.3	17.8	14.1	25.4
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.00055	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	12.7	6.5	7.28	7.21	4.9	7.1	6.4	5.4	4.6	6.1	5.7	5.8	4.7	6.3	5.4	6.4
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	21.3	28.6	18.7	27.6	30.5	12.0	15.2	26.4	24.6	38.5 *	24.0	32.2	25.4	32.4	27.5	34.9
Strontium (Sr)-Total	N/V	N/V	N/V	0.207	0.321	0.187	0.276	0.286	0.197	0.204	0.306	0.274	0.413	0.244	0.236	0.281	0.321	0.267	0.394
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	0.0005	<0.00030	0.00042	0.00035	<0.00030	<0.00030	0.00047	0.0004	0.0004	0.00032	<0.00030	0.00031	0.00044	0.00035	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	0.003	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.012	<0.001	0.0046	0.0031	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.013	0.036	0.0473	0.0152	0.0152	0.0172	0.0125	0.0346	0.0157	0.0481	0.0155	0.0195	0.0126	0.0349	0.0192	0.0251
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	1.3	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	3	NT	1.1	NT	<1.0	NT	1.4	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<1.5	NT	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				OW17S															
Data Sampled				04/05/2007	26/10/2007	06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	01/11/2011	21/05/2012	24/10/2012	23-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	99	230	41	51	32	41.7	57.1	31.4	**31.1**	**49.4**	11	94.8	39.8	219	42.5	53.1
Conductivity (umhos/cm)	N/V	N/V	N/V	1290	942	1270	1160	1440	1280	1480	1220	1430	1160	1500	884	1280	1530	1540	1150
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**650**	**450**	**630**	**530**	**695**	**558**	**838**	**527**	**640**	**562**	641	535	675	650	647	696
pH (pH units)	6.5-8.5	N/V	8.2	7.21	7.5	7.71	7.47	7.56	7.77	7.64	7.86	7.58	7.54	7.59	8.03	7.68	7.42	7.51	7.49
Total Dissolved Solids (mg/L)	N/V	N/V	394	NT	**590**	**770**	**740**	**900**	**780**	**912**	**780**	872	718	912	590	886	889	911	845
Turbidity (NTU)	1	N/V	N/V	**25**	**9.9**	**1.5**	**8.1**	**13.4**	**4.3**	9.2	5.6	5.6	5.1	126	10.5	17.3	15.7	7.05	13.0
Alkalinity, Total (mg/L)	30-500	N/V	391.5	**530**	**410**	**490**	**470**	**534**	**497**	**616**	333	**553**	472	637	446	626	608	642	626
Ammonia as N (mg/L)	N/V	N/V	N/V	4.3	1.6	2.3	2.9	8.03	2.72	7.23	4.7	3.77	2.03	3.73	3.13	8.02	8.33	9.68	6.48
Chloride (mg/L)	250	250	125.5	64	72	59	66	60.9	63.4	60.2	60.5	59.2	56.4	64.6	49.5	67.7	63.8	62	60.5
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	0.1	0.1	0.12	<0.10	<0.1	<0.1	<0.50	<0.10	<0.1	<0.1	0.17	<0.1	<0.50	<0.10
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.1	<0.1	<0.30	0.71	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.50	<0.10
Nitrate-N (mg/L)	10	10	2.6	<0.1	<0.1	<0.1	0.3	<0.10	<0.10	<0.1	0.16	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.50	0.21
Phosphate-P (ortho)	N/V	N/V	N/V	NT	0.004	0.005	0.004	<0.0030	<0.0030	0.0032	0.0037	0.0033	<0.0030	0.0032	<0.003	0.0033	0.0032	0.0041	0.0038
Sulphate (mg/L)	500	N/V	253.9	160	31	133	96	181	142	158	120	152	90	154	57.5	165	159	171	142
Metal Scan-Total		**Units: mg/L**		mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	0.03	0.01	<0.1 *	0.026	0.056	0.218	0.013	<0.010	<0.010	0.012	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.005	<0.05 *	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.003	0.009	0.011	<0.01 *	0.0126	0.0057	0.0088	0.0031	0.0114	0.0048	0.0077	0.0081	0.0070	0.0081	0.0062	0.0064
Barium (Ba)-Total	1	1	N/V	0.22	0.13	0.15	0.2 *	0.158	0.125	0.155	0.147	0.144	0.16	0.147	0.139	0.171	0.171	0.155	0.169
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.001	<0.01 *	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.001	<0.01 *	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.37	0.12	0.35	<0.5 *	0.593	0.41	0.399	0.385	0.427	0.271	0.402	0.259	0.531	0.493	0.459	0.617
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.0001	<0.001 *	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000108
Calcium (Ca)-Total	N/V	N/V	N/V	144	114	134	126 *	128	116	131	111	131	122	121	129	131	129	131	143
Chromium (Cr)-Total	0.05	0.05	N/V	<0.001	<0.001	0.005	0.01 *	0.0027	<0.0010	0.001	0.0014	0.0014	<0.0010	<0.00050	<0.00050	0.00510	<0.00050	<0.00050	<0.00050
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	<0.0005	<0.0005	<0.005 *	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00097	<0.00050	0.00050	0.00073
Copper (Cu)-Total	1	0.023	0.5007	0.001	<0.001	0.002	<0.01 *	<0.0010	0.0016	0.0027	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	**8.43**	**15.6**	**7.62**	**11.5 ***	**7.88**	**2.92**	6.58	3.45	6.67	8.57	7.74	8.68	7.09	7.51	7.44	7.62
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.001	<0.01 *	<0.0010	<0.0010	0.0027	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	70.7	40	71.6	51 *	91.1	65.4	75.5	60.7	75.7	62.3	81.9 *	51.9 *	84.5	79.6	77.7	82.2
Manganese (Mn)-Total	0.05	N/V	0.09	**0.173**	**0.184**	**0.159**	**0.17 ***	**0.192**	**0.179**	0.235	0.184	0.187	0.18	0.193	0.275	0.306	0.222	0.228	0.268
Molybdenum (Mo)-Total	N/V	7.3	N/V	0.003	0.001	0.001	<0.01 *	0.0013	0.0014	0.0017	<0.0010	0.0021	<0.0010	0.0022	<0.0010	<0.0010	0.0014	0.0013	0.0011
Nickel (Ni)-Total	N/V	0.1	N/V	0.004	0.002	0.006	<0.02 *	0.0059	0.0049	0.0038	0.0049	0.0025	<0.0020	0.0021	<0.0020	0.0031	0.0025	0.0028	0.0026
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.05	<0.5 *	<0.050	<0.050	0.055	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	14	4	12	<10 *	19.3	10.7	17.4	10.9	23.4	10.2	19.2	9.7	19.1	20.8	20.8	24.9
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.005	<0.05 *	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	7.1	7.7	11.9	10 *	10.4	8.61	6.4	7.5	8.9	8	6.6	9.2	6.5	6.8	6.8	7.2
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.0001	<0.001 *	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	34.3	17	29.9	22 *	34.4	28.9	32.1	28.7	33.9 *	22.1	37.3 *	23.6	39.0	38.8	37.4	42.3
Strontium (Sr)-Total	N/V	N/V	N/V	0.346	0.24	0.301	0.25 *	0.344	0.313	0.34	0.306	0.361	0.319	0.377	0.272	0.372	0.345	0.353	0.408
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.0003	<0.003 *	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.001	<0.01 *	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	0.006	<0.002	<0.002	<0.02 *	0.0023	0.0048	0.0134	0.0027	0.0021	<0.0020	0.0026	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.01	<0.1 *	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.005	<0.05 *	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	<0.001	<0.001	0.01	<0.01 *	0.0073	0.0031	0.0015	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.009	0.038	0.02	<0.03 *	0.0465	0.0064	0.0132	0.0187	<0.0030	<0.0030	0.0213	0.0036	0.0056	<0.0030	0.0032	0.0064
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.004	<0.04 *	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics		**Units: µg/L**		µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	0.56	NT	0.58	NT	0.51	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	1.3	NT	1.1	NT	1.1	NT	1.7	NT	1.1	NT	1.5	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2.0	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW18S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	01/11/2011	21/05/2012	24/10/2012	23-Apr-13	05-Nov-13	28/04/201	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**55**	**47**	**48.2**	**42.3**	**41.4**	**87.7**	**40.1**	**70**	107	254	31.7	68	45.1	53.1	86.8	227
Conductivity (umhos/cm)	N/V	N/V	N/V	1320	1180	1420	1310	1410	1190	1340	1220	1370	1050	1310	1530	1580	1150	1500	1370
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**630**	**570**	747	619	692	526	587	618	687	630	749	708	727	675	688	576
pH (pH units)	6.5-8.5	N/V	8.2	7.81	7.63	7.29	7.87	7.61	8	7.69	7.64	7.65	7.92	7.59	7.44	7.63	7.57	7.44	7.59
Total Dissolved Solids (mg/L)	N/V	N/V	394	**810**	**710**	**878**	**784**	**886**	**734**	**872**	**748**	846	736	918	904	932	822	847	744
Turbidity (NTU)	1	N/V	N/V	**2.2**	**9.2**	**20**	**3.9**	**7.3**	**7.5**	7.2	8.7	88	27	29	9.23	5.23	13.2	12.6	689
Alkalinity, Total (mg/L)	30-500	N/V	391.5	**520**	**470**	**545**	**503**	**623**	**488**	**523**	**516**	570	490	675	616	674	606	694	523
Ammonia as N (mg/L)	N/V	N/V	N/V	1.8	1.4	4.53	2.64	3.56	1.39	1.68	1.84	1.88	2.5	5.87	5.3	7.63	4.94	7.12	6.04
Chloride (mg/L)	250	250	125.5	64	108	63.4	76.3	61.6	82.6	72.5	84.9	70.7	102	368	70.5	63	87.7	59.7	84.8
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	0.65	<0.1	<0.50	<0.10	0.059	<0.1
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.30	0.34	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.5	<0.1	<0.50	<0.10	<0.01	0.073
Nitrate-N (mg/L)	10	10	2.6	0.2	0.5	<0.10	<0.10	0.28	1.12	0.72	0.19	0.23	<0.1	<0.5	0.11	<0.50	<0.10	0.068	<0.1
Phosphate-P (ortho)	N/V	N/V	N/V	0.004	<0.003	<0.0030	<0.0030	0.0031	0.0039	0.0033	0.003	0.0033	<0.003	<0.003	<0.003	0.0038	0.0033	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	137	42	149	96.9	139	69.6	109	51	131	94.2	718	145	147	101	140	85.4
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	<0.01	0.04	0.019	0.035	<0.010	0.024	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.001	0.001	0.0011	<0.0010	0.002	0.0018	0.0013	<0.0010	0.0013	0.0011	0.0035	0.0012	0.0012	0.0013	<0.0010	<0.0010
Barium (Ba)-Total	1	1	N/V	0.09	0.09	0.119	0.125	0.151	0.143	0.109	0.12	0.132	0.107	0.151	0.149	0.169	0.158	0.164	0.120
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.29	0.22	0.582	0.479	0.447	0.380	0.306	0.298	0.402	0.316	0.511	0.495	0.539	0.595	0.535	0.426
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000714	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	137	138	148	130	150	109	136	136	141	147	156	147	157	144	143	129
Chromium (Cr)-Total	0.05	0.05	N/V	0.004	0.002	0.0029	0.0016	<0.0010	<0.0010	0.0014	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00055
Cobalt (Co)-Total	N/V	0.1	N/V	0.001	0.0018	0.0033	0.00083	0.00088	<0.00050	0.00105	0.0018	0.00156	0.00187	0.00316	0.00241	0.00282	0.00233	0.00230	0.00159
Copper (Cu)-Total	1	0.023	0.5007	0.002	<0.001	0.0015	0.0048	0.0022	0.0012	0.0018	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	0.74	0.07	0.196	2.98	0.133	0.219	0.866	2.22	0.644	3.78	1.59	3.89	3.64	3.32	0.968
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	69.2	53.5	91.9	71.8	77.2	61.7	60.5	67.6	81.6 *	64.2 *	87.6	82.6	81.4	76.5	80.4	61.6
Manganese (Mn)-Total	0.05	N/V	0.09	**0.316**	0.398	0.409	0.303	0.478	0.202	0.261	0.424	0.376	0.476	0.437	0.372	0.392	0.344	0.380	0.295
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.007	0.008	0.009	0.0061	0.0042	0.0055	0.0034	0.0026	0.0046	0.003	0.0056	0.0047	0.0053	0.0038	0.0044	0.0029
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	9	9	16.8	14.5	15.7	12.3	15.3	12.2	15.6	12	18.1	17.2	18.5	18.8	17.8	16.0
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	10.2	6.5	9.8	8.08	5.9	5.8	6.5	6.1	5.9	6.7	6.5	6.9	6.0	7.1	6.4	6.4
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	26	33	39	36.7	36	34.3	31	39.3	38.5 *	42.3 *	40.9	42.0	42.5	43.7	39.1	39.9
Strontium (Sr)-Total	N/V	N/V	N/V	0.254	0.238	0.332	0.306	0.352	0.286	0.292	0.309	0.35	0.291	0.344	0.321	0.379	0.393	0.367	0.324
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	0.0022	<0.0020	0.0041	<0.0020	<0.0020	<0.0020	0.0025	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.008	<0.001	0.0076	0.0035	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.014	0.026	0.0883	0.0211	0.0165	<0.0030	0.0357	0.0171	0.0151	0.0164	0.0156	0.0158	0.0159	0.0112	0.0051	0.0050
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	1.1	NT	1.1	NT	<1.0	NT	<1.0	NT	1.1	NT	1.6	NT	1.6	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW18D															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	01/11/2011	21/05/2012	24/10/2012	23-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**37**	**32**	**45.3**	**47.1**	**89.4**	**46.5**	**30.6**	**62.2**	122	32	33.7	43.7	47.0	104	116	203
Conductivity (umhos/cm)	N/V	N/V	N/V	1420	1250	1370	1340	1380	1300	1510	1270	1520	1100	1300	1560	1560	1150	1480	1210
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**780**	**580**	**642**	**614**	**640**	**560**	**667**	**568**	631	635	655	682	680	648	641	536
pH (pH units)	6.5-8.5	N/V	8.2	7.45	7.49	7.64	7.8	7.55	7.77	7.57	7.58	7.48	8.04	7.75	7.38	7.66	7.51	7.44	7.55
Total Dissolved Solids (mg/L)	N/V	N/V	394	**850**	**740**	**848**	**786**	**832**	**802**	930	778	890	770	880	892	888	811	779	530
Turbidity (NTU)	1	N/V	N/V	0.92	7.1	10.9	2.4	17.1	6.3	7	14.4	96	5.4	9.92	9.16	7.95	14.6	19.7	102
Alkalinity, Total (mg/L)	30-500	N/V	391.5	**570**	**480**	**531**	**520**	**594**	**541**	**611**	**551**	658	527	651	636	670	609	688	519
Ammonia as N (mg/L)	N/V	N/V	N/V	3.1	4.1	7.85	4.78	7.89	4.8	4.33	3.3	3.49	6.98	7.68	9.41	11.5	8.35	12	8.5
Chloride (mg/L)	250	250	125.5	58	61	58.6	61.5	58.9	62.1	62.6	77.8	69.3	89.5	365	66.9	60	58.8	56.3	49.6
Fluoride (mg/L)	1.5	N/V	0.45	0.1	0.1	<0.30	<0.10	<0.1	<0.1	<0.50	<0.50	<0.1	<0.1	0.81	<0.1	<0.50	<0.10	0.063	<0.1
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	0.66	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.5	<0.1	<0.50	<0.10	<0.01	<0.05
Nitrate-N (mg/L)	10	10	2.6	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	1.34	<0.1	3.94	<0.1	<0.50	<0.10	<0.02	<0.1
Phosphate-P (ortho)	N/V	N/V	N/V	0.004	0.003	<0.0030	<0.0030	0.003	0.004	0.0038	<0.0030	0.0035	<0.003	<0.003	<0.003	0.0035	0.0034	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	164	103	140	120	131	120	137	90.9	122	83	641	150	128	131	123	67.4
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.012	0.005	0.0015	0.0081	0.0017	0.0076	0.0074	0.0041	0.0017	0.0044	0.0027	0.0070	0.0045	0.0064	0.0055	0.0048
Barium (Ba)-Total	1	1	N/V	0.1	0.1	0.091	0.178	0.117	0.139	0.119	0.103	0.11	0.099	0.105	0.125	0.124	0.119	0.127	0.111
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.48	0.41	0.487	0.573	0.474	0.521	0.471	0.388	0.409	0.365	0.479	0.505	0.531	0.583	0.540	0.472
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000259	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	149	128	129	123	133	108	146	124	122	139	137	136	144	136	129	124
Chromium (Cr)-Total	0.05	0.05	N/V	0.006	0.002	0.0014	<0.0010	<0.0010	<0.0010	0.0021	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00076
Cobalt (Co)-Total	N/V	0.1	N/V	0.0071	0.0059	0.00691	0.00381	0.00257	0.00517	0.00756	0.00649	0.00065	0.00655	0.00387	0.00729	0.00691	0.00641	0.00682	0.00384
Copper (Cu)-Total	1	0.023	0.5007	0.005	0.003	0.0014	0.0014	0.0021	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	**4.79**	2.35	0.474	0.972	1.04	2.56	**3.28**	**2.82**	0.367	4.08	1.76	4.00	3.91	4.18	4.22	5.59
Lead (Pb)-Total	0.01	0.01	0.0027	0.002	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0014	<0.0010	0.0022	0.0011	0.0016	0.0015	0.0015	0.0011	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	99.1	64	77.5	74.6	74.9	70.3	73.6	62.8	79.3 *	69.8 *	76.0	83.0	77.8	74.6	77.6	54.6
Manganese (Mn)-Total	0.05	N/V	0.09	**0.365**	0.374	0.316	0.29	0.287	0.281	0.217	0.346	0.162	0.339	0.154	0.233	0.228	0.242	0.216	0.248
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	0.0012	0.001	0.0011	0.0012	<0.0010	0.0015	<0.0010	<0.0010	0.0010	0.0011	0.0010	0.0012	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.014	0.013	0.0107	0.0098	0.0078	0.0114	0.0102	0.0083	0.0096	0.0073	0.0085	0.0118	0.0106	0.0095	0.0104	0.0065
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	25	18	18.6	20.2	21.8	19.5	22	20	22	17.9	21.5	25.6	23.3	25.5	24.6	21.3
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	13	5.9	7.09	7.16	5.3	5.9	8.8	5.8	5.7	6.5	5.8	5.5	5.6	6.3	5.7	5.9
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	42.4	28.8	34.2	34.7	36	35.5	33.4	35.2	39.3 *	43.8 *	39.1	42.7	41.3	40.4	38.3	31.3
Strontium (Sr)-Total	N/V	N/V	N/V	0.378	0.288	0.302	0.338	0.354	0.316	0.363	0.345	0.349	0.308	0.351	0.319	0.388	0.380	0.370	0.340
Thallium (Tl)-Total	N/V	0.002	N/V	0.0005	0.0005	0.0003	<0.00030	0.00055	0.00040	0.00049	0.00066	0.00032	0.00056	0.00066	0.00065	0.00068	0.00067	0.00063	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	0.0032	0.0024	0.0026	0.002	<0.0020	0.0024	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.012	<0.001	0.0036	0.0026	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.126	0.109	0.0596	0.0256	0.0975	0.0645	0.125	0.0983	0.0602	0.105	0.104	0.126	0.117	0.0946	0.108	0.0438
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.009	<0.009	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	0.5	NT	0.5	NT	0.5	NT	0.5	NT	0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	0.5	NT	0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<0.5	NT	<0.5	NT	1.3	NT	1.3	NT	1.3	NT	1.6	NT	<0.5	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

Well ID				OW19S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	20/05/2011	01/11/2011	21/05/2013	24/10/2012	23-Apr-13	05-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**37**	**44**	**30.6**	**47.5**	**83.5**	**25.6**	**16.2**	**24.7**	344	24.8	53.4	99.6	62.3	85.9	84.1	190
Conductivity (umhos/cm)	N/V	N/V	N/V	587	684	576	638	572	573	614	582	591	414	420	574	571	342	557	565
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**310**	**340**	318	318	297	323	292	296	327	341	370	276	339	349	278	298
pH (pH units)	6.5-8.5	N/V	8.2	8.02	8.01	8.11	**8.21**	8.07	**8.29**	**8.21**	8	8.13	8.32	8.12	8.05	8.21	8.13	8.11	8.15
Total Dissolved Solids (mg/L)	N/V	N/V	394	320	**400**	298	358	318	344	324	348	314	320	282	291	300	290	302	252
Turbidity (NTU)	1	N/V	N/V	**1.4**	**9.7**	57	4.4	12.1	7.2	9.3	13	>200	6.8	37	10.9	17.3	19.5	43	>1000
Alkalinity, Total (mg/L)	30-500	N/V	391.5	340	370	329	353	338	324	321	332	311	312	330	309	336	298	323	322
Ammonia as N (mg/L)	N/V	N/V	N/V	0.14	0.14	0.085	0.08	0.134	0.058	0.099	0.065	0.089	0.49	0.113	<0.05	0.120	0.090	<0.05	0.122
Chloride (mg/L)	250	250	125.5	4	4	2.3	3.6	2.7	2.3	7.5	<2.0	6	5.1	<10	<2	3.4	3.0	2.9	2.51
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	0.3	0.26	0.26	0.28	0.23	0.25	0.24	0.17	0.21	1.49	0.28	0.25	0.26	0.263	0.226
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	0.12	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.5	<0.1	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.5	<0.1	<0.10	<0.10	0.021	<0.02
Phosphate-P (ortho)	N/V	N/V	N/V	0.005	0.004	0.0034	<0.0030	0.0043	0.0041	0.0058	0.0035	0.0064	0.0054	0.004	0.0037	0.0056	0.0062	0.0035	0.0036
Sulphate (mg/L)	500	N/V	253.9	14	32	8.5	19.6	9.5	15.4	19.8	17.2	17.5	20.4	36	7.3	13	11.6	11.6	12.9
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.01	<0.01	0.011	0.019	0.026	<0.010	0.025	<0.010	0.307	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.053
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.003	0.001	0.0012	0.0019	<0.0010	0.0013	0.0037	<0.0010	0.0027	0.0062	0.0022	<0.0010	0.0020	0.0039	0.0023	0.0033
Barium (Ba)-Total	1	1	N/V	0.02	0.02	0.02	0.025	0.021	0.024	0.028	0.021	0.026	0.051	0.060	0.019	0.046	0.050	0.023	0.028
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.07	0.07	0.083	0.088	0.064	0.073	0.068	0.068	0.054	0.098	0.168	0.075	0.132	0.168	0.059	0.140
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	0.00016	<0.00010	<0.00010	0.000147	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	56.9	63.6	48.5	57.5	50.2	60.2	45	56.7	72.9	64	69.3	45.3	60.0	61.3	42.0	44.7
Chromium (Cr)-Total	0.05	0.05	N/V	0.003	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.00076	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00075
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00065	<0.00050	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	0.002	0.006	0.0049	0.0039	0.0067	0.0021	0.0027	0.0018	0.0062	<0.0010	<0.0010	0.0026	<0.0010	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	<0.05	<0.050	0.085	<0.050	0.134	0.057	<0.050	0.196	0.556	0.407	<0.050	0.474	0.427	<0.050	0.118
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	40	43.2	47.9	42.3	41.7	42.0	43.7	37.5	35.3	43.9	47.8	39.5	45.9	47.7	42.1	45.3
Manganese (Mn)-Total	0.05	N/V	0.09	0.043	0.046	0.0385	0.0509	0.0588	0.0298	0.022	0.026	0.0447	0.123	0.126	0.0099	0.104	0.0704	0.0252	0.0222
Molybdenum (Mo)-Total	N/V	7.3	N/V	0.004	0.004	0.0029	0.0038	0.0042	0.0032	0.0075	0.003	0.007	0.0041	0.0024	0.0019	0.0036	0.0036	0.0036	0.0031
Nickel (Ni)-Total	N/V	0.1	N/V	0.002	0.004	<0.0020	0.0021	<0.0020	0.0032	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0029
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.127	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	2	2	1.4	1.7	1.7	1.5	3.3	1.3	2.5	3.4	6.3	1.3	4.4	6.6	1.8	3.2
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.00041	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	8.5	6.8	6.95	6.98	5.6	6.5	7.3	6	5.5	6.5	5.5	5.7	5.8	6.8	6.2	6.3
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	27.6	19.1	14.8	16.9	13.6	13.3	20.7	12.5	14.8	18.2	17.0	12.4	18.4	18.8	13.9	15.8
Strontium (Sr)-Total	N/V	N/V	N/V	0.185	0.188	0.176	0.198	0.175	0.188	0.185	0.214	0.194	0.193	0.215	0.146	0.211	0.224	0.175	0.189
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	0.002	<0.0020	<0.0020	<0.0020	0.0023	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.005	0.001	0.0023	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.027	0.023	0.0319	0.0137	0.0177	0.0112	0.012	0.0109	0.684	<0.0030	<0.0030	0.0125	0.0054	<0.0030	0.0038	<0.0030
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<2	NT	<2	NT	<2	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW20S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	01/11/2011	10/05/2011	01/11/2011	23-Apr-14	04-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**54**	**45**	**38.9**	**126**	**62.2**	**56.7**	**27.7**	**30.8**	58.1	57.7	123	20.4	70.5	243	131	196
Conductivity (umhos/cm)	N/V	N/V	N/V	886	868	806	749	745	759	792	825	864	382	746	768	752	750	720	859
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**350**	**320**	333	425	349	299	318	370	217	348	266	389	317	344	364	410
pH (pH units)	6.5-8.5	N/V	8.2	7.99	8	8.06	**8.21**	8.1	**8.3**	8.16	7.86	8.18	8.28	8.3	7.84	8.12	7.94	7.96	7.91
Total Dissolved Solids (mg/L)	N/V	N/V	394	**490**	**630**	**476**	**432**	**442**	**514**	**458**	**524**	506	470	462	469	437	427	411	431
Turbidity (NTU)	1	N/V	N/V	**15.5**	**11.4**	62	17.9	26	42	15.5	14.6	>200	14.9	54	174	31.0	64.8	37	>1000
Alkalinity, Total (mg/L)	30-500	N/V	391.5	**420**	**400**	382	363	389	**414**	**394**	**501**	427	251	415	398	388	384	433	497
Ammonia as N (mg/L)	N/V	N/V	N/V	0.32	0.24	0.227	0.138	0.324	0.108	0.144	0.163	0.225	0.214	0.269	0.209	0.207	0.216	0.141	0.14
Chloride (mg/L)	250	250	125.5	22	36	9.9	23.9	19.3	26.1	19.8	34.8	36	6.1	71	24	18.5	19.9	12.9	8.19
Fluoride (mg/L)	1.5	N/V	0.45	0.3	0.2	0.16	0.16	0.44	0.23	0.24	0.11	0.14	0.14	2.4	<0.5	0.13	0.16	0.119	0.148
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	0.19	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.5	<0.5	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	<0.1	0.4	<0.10	<0.10	<0.1	0.16	0.28	<0.10	1.29	<0.1	<0.5	0.74	1.38	0.30	0.268	0.023
Phosphate-P (ortho)	N/V	N/V	N/V	0.004	0.005	<0.0030	0.0032	0.0036	0.004	<0.0030	<0.0030	0.0041	<0.003	0.0043	<0.003	0.0033	<0.003	0.0068	<0.003
Sulphate (mg/L)	500	N/V	253.9	77	79	43	34.7	73.4	29.3	37.3	63.3	51.3	21.4	185	35	30.8	27.5	23.3	30.2
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.04	0.02	0.012	0.085	0.084	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.006	0.002	0.0026	0.0029	0.0032	0.0021	0.0037	0.0016	0.005	0.0049	0.0044	0.0039	0.0016	0.0017	0.0019	0.0027
Barium (Ba)-Total	1	1	N/V	0.03	0.04	0.04	0.069	0.05	0.046	0.044	0.063	0.033	0.047	0.052	0.060	0.046	0.050	0.050	0.060
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.14	0.17	0.169	0.361	0.144	0.187	0.129	0.16	0.137	0.172	0.189	0.184	0.110	0.131	0.122	0.164
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000215	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	75.7	66.7	62.4	81.3	71.1	57.0	65.4	81	42.1	72	52.6	81.8	66.3	74.0	80.2	92.8
Chromium (Cr)-Total	0.05	0.05	N/V	0.004	0.001	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00069
Cobalt (Co)-Total	N/V	0.1	N/V	0.0007	0.0007	0.00066	0.00155	<0.00050	<0.00050	0.00067	0.00066	0.00056	0.00064	0.00060	0.00132	0.00054	0.00061	0.00066	0.00082
Copper (Cu)-Total	1	0.023	0.5007	0.001	<0.001	<0.0010	0.0014	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	**0.31**	0.4	0.114	1.14	0.759	0.561	0.753	0.548	0.891	1.74	0.926	0.688	0.651	0.436	0.303	0.768
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	38.6	37.2	43.1	53.9	41.6	38.0	37.5	40.8	27.1	40.8	32.8	45.0	36.8	38.7	39.7	43.4
Manganese (Mn)-Total	0.05	N/V	0.09	**0.175**	0.174	0.158	0.279	0.193	0.139	0.149	0.195	0.149	0.154	0.125	0.280	0.158	0.171	0.209	0.200
Molybdenum (Mo)-Total	N/V	7.3	N/V	0.007	0.005	0.0059	0.0036	0.0043	0.0065	0.0042	0.0032	0.0155	0.0029	0.0094	0.0022	0.0032	0.0029	0.0020	0.0021
Nickel (Ni)-Total	N/V	0.1	N/V	0.004	0.005	0.0036	0.0058	<0.0020	0.0032	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	0.0030	<0.0020	<0.0020	<0.0020	0.0022
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	4	5	3.9	10	4.3	5.0	3.4	4.4	4.4	4.5	5.5	5.9	3.3	2.8	3.2	4.9
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.00049	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	11.8	6.1	8.29	7.47	6.2	6.7	7.3	6.6	5.6	8.1	6.2	6.9	5.5	6.9	5.4	6.7
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	106	78.6	92.1	77.8	60.6	92.1	51.5	55.2	146 *	79.9 *	100	54.4	57.4	52.5	41.2	42.3
Strontium (Sr)-Total	N/V	N/V	N/V	0.205	0.204	0.19	0.262	0.2	0.191	0.186	0.257	0.149	0.229	0.158	0.221	0.199	0.211	0.209	0.248
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.00032	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	0.0027	0.0034	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.009	<0.001	0.0045	0.0026	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.065	0.058	0.0232	0.0795	0.0433	<0.0030	0.0046	0.0098	0.0046	<0.0030	<0.0030	0.0067	<0.0030	<0.0030	<0.0030	<0.0030
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<0.5	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW20D															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	01/11/2011	21/05/2012	24/10/2012	23-Apr-13	04-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**33**	**34**	**29.6**	**158**	**70.1**	**30.2**	**26.5**	**49.2**	70.8	25.4	27.3	80.6	39.9	76.8	60.8	138
Conductivity (umhos/cm)	N/V	N/V	N/V	1410	1430	1470	1090	1410	1010	1420	1360	1410	777	1220	1430	1430	1090	1030	1390
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**800**	**710**	713	666	676	651	680	643	589	725	759	680	662	670	634	612
pH (pH units)	6.5-8.5	N/V	8.2	7.56	7.57	7.66	7.88	7.65	8.03	7.75	7.55	7.62	8.01	7.86	7.4	8.27	7.53	7.77	7.72
Total Dissolved Solids (mg/L)	N/V	N/V	394	**850**	**890**	**976**	**634**	**890**	**878**	**904**	**856**	882	850	880	897	857	826	823	766
Turbidity (NTU)	1	N/V	N/V	**6.6**	**9.4**	**13.2**	**25**	**13.2**	**18.6**	5.6	15.1	121	6.1	29	39	8.27	14.9	17.3	118
Alkalinity, Total (mg/L)	30-500	N/V	391.5	**500**	**510**	**472**	**471**	**533**	**535**	**498**	**571**	504	349	540	471	464	430	566	562
Ammonia as N (mg/L)	N/V	N/V	N/V	2.6	4.2	4.2	4.85	4.02	3.97	3.05	3.76	2.86	8.33	6.68	6.2	6.36	7.75	5.37	9.37
Chloride (mg/L)	250	250	125.5	57	55	39.4	46.7	55.4	48.2	53.3	58.3	54.5	35.3	343	44	40	38.4	32	50.1
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	0.1	<0.10	<0.10	<0.1	<0.1	<0.50	<0.10	<0.1	<0.1	0.77	<0.5	<0.50	<0.10	0.05	<0.1
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	<0.30	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.5	<0.5	<0.50	<0.10	<0.01	<0.05
Nitrate-N (mg/L)	10	10	2.6	<0.1	<0.1	<0.10	<0.10	<0.1	0.15	<0.10	<0.10	1.34	<0.1	<0.5	0.61	0.99	0.28	0.302	<0.1
Phosphate-P (ortho)	N/V	N/V	N/V	<0.003	0.003	<0.0030	<0.0030	0.003	0.0031	<0.0030	<0.0030	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	**268**	171	184	106	228	89.2	242	118	129	76.8	862	122	127	114	105	128
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.02	<0.01	<0.010	0.013	0.016	0.014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	0.004	0.003	0.0025	0.0041	0.0023	0.0026	0.0029	0.0022	0.0021	0.0033	0.0033	0.0028	0.0026	0.0021	0.0019	0.0027
Barium (Ba)-Total	1	1	N/V	0.1	0.11	0.104	0.121	0.113	0.132	0.112	0.126	0.1	0.147	0.153	0.136	0.116	0.114	0.115	0.120
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.54	0.61	0.597	0.791	0.516	0.653	0.454	0.444	0.431	0.605	0.533	0.509	0.504	0.526	0.473	0.556
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000093	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	161	145	136	121	142	119	151	144	138	145	155	141	135	140	130	134
Chromium (Cr)-Total	0.05	0.05	N/V	0.006	0.002	0.0024	0.0015	<0.0010	<0.0010	0.0016	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00088
Cobalt (Co)-Total	N/V	0.1	N/V	0.0033	0.0031	0.00273	0.00358	0.00161	0.00262	0.00361	0.00269	0.00284	0.00376	0.00228	0.00415	0.00363	0.00344	0.00401	0.00332
Copper (Cu)-Total	1	0.023	0.5007	0.001	0.003	<0.0010	0.0016	0.0014	0.0014	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	<0.0010	0.0011	<0.0010	0.0011	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	**1.51**	2.97	1.07	3.07	1.64	2.69	**1.58**	**2.4**	1.85	3.93	2.95	1.92	2.05	2.12	1.63	3.94
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	0.0024	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0015	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	97.7	84.8	90.8	88.4	78.5	85.9	73.7	69.1	83.8 *	88.1 *	90.1	79.5	78.8	77.5	75.3	67.4
Manganese (Mn)-Total	0.05	N/V	0.09	**0.777**	0.634	0.659	0.664	0.662	0.713	0.77	0.55	0.741	0.653	0.448	0.823	0.730	0.731	0.726	0.545
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.014	0.013	0.0108	0.0113	0.0069	0.0140	0.0093	0.0068	0.0076	0.0087	0.0075	0.0096	0.0080	0.0075	0.0094	0.0076
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	24	23	18.6	22.9	17.7	23.1	22.5	18.7	19.5	24.4	20.1	18.9	19.7	19.6	19.9	22.7
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.00081	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	13.4	5.7	8.36	8.35	5.3	5.6	7.3	5.2	4.9	6.5	6.7	5.7	5.2	5.7	5.1	6.2
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	38.7	33.7	34.7	37.1	32.8	37.0	30.5	29.4	30.2	40.8 *	37.9	36.6	33.1	32.0	31.8	32.5
Strontium (Sr)-Total	N/V	N/V	N/V	0.363	0.367	0.327	0.397	0.345	0.385	0.36	0.386	0.384	0.389	0.361	0.357	0.402	0.374	0.349	0.383
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	0.00034	<0.00030	0.00030	<0.00030	<0.00030	0.00031	<0.00030	0.00081	0.00031	<0.00030	0.00034	0.00041	0.00032
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	0.004	<0.0020	<0.0020	0.0036	0.0044	0.0036	<0.0020	0.004	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.012	<0.001	0.0066	0.0045	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.096	0.015	0.0114	0.0166	0.0313	0.0365	0.0131	0.0256	0.023	0.0147	0.0076	0.0160	0.0103	0.0081	0.0150	0.0127
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	0.5	NT	<0.5	NT	<0.5	NT	0.5	NT	0.5	NT	0.5	NT	0.5	NT	0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	1	NT	1	NT	1.3	NT	1.1	NT	1.1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				OW21S															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	31/10/2011	21/05/2012	24/10/2012	23-Apr-13	04-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**42**	**44**	**44.3**	**55.7**	**53**	**50.8**	**39.4**	**38.8**	217	338	90.9	108	55.3	85.8	124	115
Conductivity (umhos/cm)	N/V	N/V	N/V	705	720	682	686	640	625	636	644	572	414	633	686	678	377	713	725
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**450**	**410**	**349**	**439**	**392**	**376**	**341**	**338**	315	383	348	366	365	388	371	394
pH (pH units)	6.5-8.5	N/V	8.2	7.78	7.8	7.89	7.95	7.89	7.9	7.94	7.85	7.83	8.28	8.02	7.72	7.85	7.8	7.7	7.71
Total Dissolved Solids (mg/L)	N/V	N/V	394	**400**	**430**	386	374	350	372	366	378	306	346	382	408	400	379	372	376
Turbidity (NTU)	1	N/V	N/V	2.3	10.4	70	6.7	9.9	8.2	8.4	18.1	>200	31	64	30	12.7	27.3	23.6	>1000
Alkalinity, Total (mg/L)	30-500	N/V	391.5	350	330	347	398	374	378	361	356	314	372	315	342	374	403	434	401
Ammonia as N (mg/L)	N/V	N/V	N/V	0.08	0.06	<0.050	0.058	<0.05	0.055	<0.050	<0.050	<0.05	<0.05	0.05	<0.05	<0.050	<0.050	<0.05	<0.05
Chloride (mg/L)	250	250	125.5	9	7	7.6	<2.0	<2	<2	<2.0	4.3	<2	5	80	<10	8.2	<2.0	4.28	5.7
Fluoride (mg/L)	1.5	N/V	0.45	0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.5	<0.5	<0.10	<0.10	0.042	0.038
Nitrite-N (mg/L)	1	1	0.3	<0.1	<0.1	2.17	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.5	<0.5	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	5.6	0.4	<0.10	<0.10	<0.1	<0.1	0.14	0.62	<0.1	1.51	32.7	3.77	4.47	<0.10	0.758	1.23
Phosphate-P (ortho)	N/V	N/V	N/V	0.003	0.003	0.0034	<0.0030	<0.003	0.0098	0.0034	<0.0030	0.0033	<0.003	<0.003	<0.003	0.0035	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	32	29	22.1	10.4	5.5	5.5	5.6	9	6.6	10.3	194	25	20.1	2.4	9.1	9.24
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.01	<0.01	<0.010	0.194	0.054	0.080	<0.010	<0.010	0.011	<0.010	<0.010	0.031	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	1	1	N/V	0.03	0.04	0.027	0.036	0.03	0.031	0.024	0.028	0.021	0.032	0.024	0.033	0.029	0.032	0.029	0.034
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	119	113	89.3	113	106	95.6	99	94.1	89.9	103	92.0	96.8	98.0	109	98.1	106
Chromium (Cr)-Total	0.05	0.05	N/V	0.003	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00069
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	0.002	0.001	0.0019	0.0123	0.0031	0.0017	0.001	0.0016	0.0012	0.0012	<0.0010	0.0029	<0.0010	0.0019	0.0012	0.0016
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	<0.05	<0.050	0.226	<0.050	0.086	<0.050	<0.050	<0.050	0.053	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	0.0041	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	36.4	32	30.5	38.2	30.8	33.3	22.7	25.2	22	30.7	28.6	30.1	29.1	28.3	30.6	31.5
Manganese (Mn)-Total	0.05	N/V	0.09	0.031	0.019	0.0013	0.104	0.0512	0.0747	0.0411	0.0086	0.0401	0.0725	0.0090	0.0103	0.0414	0.0517	0.0639	0.0838
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.004	0.005	0.0032	0.0047	0.0023	0.0044	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	1.6
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	7.1	6.5	5.28	5.91	4	4.3	4.1	3.9	3.2	4.3	2.8	3.8	3.1	4.9	3.6	4.4
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	7.5	14.7	9.23	6.49	4.6	4.51	5.42	4.59	3.52	5.56	3.50	3.57	4.32	3.67	3.25	4.25
Strontium (Sr)-Total	N/V	N/V	N/V	0.108	0.105	0.0857	0.118	0.0915	0.0978	0.0818	0.0966	0.085	0.101	0.0899	0.0918	0.0905	0.103	0.0945	0.109
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	0.0024	0.0027	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.006	0.002	0.0024	0.0032	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.045	0.029	0.0032	0.03	0.0106	0.0084	<0.0030	0.0035	0.0186	<0.0030	<0.0030	0.0227	<0.0030	0.0118	0.0043	0.0045
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<2	NT	<2	NT	<2	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

Well ID				OW21D															
Data Sampled				06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	30/10/2011	21/05/2012	24/10/2012	23-Apr-13	04-Nov-13	28-Apr-14	22-Oct-14	29-Apr-15	04-Nov-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**48**	60	17.9	12.8	**36.7**	**41.4**	**19.3**	**35.8**	86.9	23.1	33.7	49.7	15.1	24.7	22.6	31.3
Conductivity (umhos/cm)	N/V	N/V	N/V	714	757	621	720	681	728	650	733	711	719	647	708	676	396	695	781
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**400**	**460**	**339**	**360**	**354**	**360**	322	364	367	434	357	368	340	388	343	390
pH (pH units)	6.5-8.5	N/V	8.2	7.79	7.78	7.9	7.97	7.85	8	7.97	7.8	7.89	7.99	8.02	7.74	7.9	7.79	7.86	7.81
Total Dissolved Solids (mg/L)	N/V	N/V	394	390	**450**	330	394	386	**446**	**428**	**428**	406	444	392	418	393	397	378	396
Turbidity (NTU)	1	N/V	N/V	**3.3**	13.6	9.6	1.63	9.3	14.6	4.5	6.6	94	3.3	10.5	9.53	2.89	6.52	4.7	16.8
Alkalinity, Total (mg/L)	30-500	N/V	391.5	250	340	268	347	343	385	304	364	295	396	295	321	283	346	364	405
Ammonia as N (mg/L)	N/V	N/V	N/V	0.08	0.11	<0.050	<0.050	0.081	<0.05	<0.050	0.088	0.133	1.92	<0.05	<0.05	<0.050	1.55	<0.05	4.16
Chloride (mg/L)	250	250	125.5	19	24	17.6	17.9	13	14.9	12.9	15.6	16.9	19	96	14	12.6	12.2	10.9	15.8
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.5	<0.5	<0.10	<0.10	0.04	0.078
Nitrite-N (mg/L)	1	1	0.3	<0.1	0.2	6.66	1.92	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.5	<0.5	<0.10	<0.10	<0.01	<0.01
Nitrate-N (mg/L)	10	10	2.6	**19.1**	6.3	<0.10	<0.10	2.5	0.95	4.4	1.8	10.3	2.94	37.6	5.87	8.55	3.43	3.21	0.244
Phosphate-P (ortho)	N/V	N/V	N/V	0.003	<0.003	0.0031	<0.0030	0.0032	0.0037	0.0033	<0.0030	<0.003	<0.003	<0.003	0.0033	0.0035	<0.003	<0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	30	34	19.3	25.7	19.2	22.7	18.8	24.5	24.5	28.9	310	36	30.6	26.3	22.6	15.3
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	0.01	<0.01	<0.010	<0.010	<0.010	0.018	<0.010	<0.010	0.038	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium (Ba)-Total	1	1	N/V	0.02	0.04	0.023	0.026	0.029	0.031	0.022	0.031	0.026	0.045	0.028	0.029	0.025	0.032	0.026	0.045
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	<0.05	0.1	<0.050	0.066	<0.050	0.063	<0.050	0.054	<0.050	0.107	<0.050	<0.050	<0.050	0.053	<0.050	0.142
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	104	116	81	90.7	91.9	86.8	88	95.1	101	110	91.6	93.4	85.8	99.7	84.3	98.9
Chromium (Cr)-Total	0.05	0.05	N/V	0.002	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00082
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	<0.0005	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	0.002	0.003	0.0074	0.0037	0.002	0.0034	0.0017	0.0034	0.0025	0.0033	0.0013	0.0025	0.0028	0.0023	0.0027	0.0046
Iron (Fe)-Total	0.3	N/V	0.17	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.076	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	34.5	41	33.2	32.4	30.2	34.9	24.8	30.7	27.8	38.4	31.2	32.7	30.5	33.6	32.3	34.6
Manganese (Mn)-Total	0.05	N/V	0.09	0.037	0.078	0.0035	0.0837	0.0529	0.0975	0.0095	0.0562	0.0599	0.161	0.0108	0.0750	0.0118	0.0591	0.0599	0.140
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	0.005	0.008	0.0036	0.0051	<0.0020	0.0064	<0.0020	0.0027	<0.0020	0.0038	<0.0020	0.0024	<0.0020	<0.0020	0.0023	0.0041
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	<0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	2	2	1.5	1.5	1.1	1.6	1.5	1.5	1.4	4.2	1.3	1.6	1.4	1.7	1.5	6.3
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	4.3	6	3.85	3.71	3	3.4	3	3.2	2.6	3.9	2.6	3.1	2.4	3.6	2.7	3.7
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	5.8	9	4.39	5.52	4.18	5.69	3	5.58	3.54	9.48	4.55	5.05	3.85	5.48	4.47	8.90
Strontium (Sr)-Total	N/V	N/V	N/V	0.095	0.116	0.0813	0.108	0.0904	0.106	0.0833	0.11	0.104	0.135	0.0862	0.0894	0.0887	0.104	0.0875	0.147
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	<0.0003	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	<0.002	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.004	0.003	0.0014	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.059	0.023	0.0387	0.0211	0.0138	0.0259	0.0208	0.0174	0.113	0.0154	0.0068	0.0200	0.0172	0.0156	0.0249	0.0184
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	<0.004	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2,2-Tetrachloroethane	N/V	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,1-Trichloroethane	N/V	200	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1,2-Trichloroethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dibromoethane	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethane	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,1-Dichloroethylene	14	4.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichlorobenzene	200	3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloroethane	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,2-Dichloropropane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT

1,3-Dichlorobenzene	N/V	630	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
1,4-Dichlorobenzene	5	1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
2-Hexanone	N/V	N/V	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Acetone	N/V	300	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Benzene	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromodichloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromoform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Bromomethane	N/V	10	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Carbon Disulfide	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Carbon tetrachloride	5	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chlorobenzene	N/V	30	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloroethane	N/V	N/V	N/V	<1	NT	1	NT	1	NT	<1.0	NT	<1.0	NT	<1.0	NT	<1.0	NT	<1.0	NT
Chloroform	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Chloromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
cis-1,2-Dichloroethylene	N/V	70	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
cis-1,3-Dichloropropene	N/V	1.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dibromochloromethane	N/V	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Dichlorodifluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Dichloromethane	50	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Ethyl Benzene	2.4	2.4	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
m+p-Xylenes	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Methyl Ethyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
Methyl Isobutyl Ketone	N/V	350	N/V	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20	NT
MTBE	N/V	700	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
o-Xylene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Styrene	N/V	100	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Tetrachloroethylene	30	5	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Toluene	24	24	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,2-Dichloroethylene	N/V	0.1	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
trans-1,3-Dichloropropene	N/V	N/V	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichloroethylene	50	50	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Trichlorofluoromethane	N/V	N/V	N/V	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1	NT
Trihalomethanes (total)	100	N/V	N/V	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT	<2	NT
Vinyl chloride	2	1.3	N/V	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT
Xylenes (Total)	300	300	N/V	<2	NT	<2	NT	<2	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT

Well ID				SW-3															
Data Sampled				01/05/2006	26/10/2006	04/05/2007	26/10/2007	06/05/2008	30/10/2008	05/05/2009	28/10/2009	06/05/2010	10/11/2010	10/05/2011	31/10/2011	21/05/2012	23-Apr-13	22-Oct-14	29-Apr-15
Parameter	**ODWS**	**SCS**	**RUP**																
Color, Apparent (C.U.)	5	N/V	N/V	**19**	NT	**19**	NT	NT	NT	13.8	NT	17	NT	18	NT	47.3	23.9	40.4	14.2
Conductivity (umhos/cm)	N/V	N/V	N/V	909	NT	892	NT	NT	NT	879	NT	919	NT	923	NT	1000	722	427	675
Hardness (as CaCO3 - mg/L)	80-100	N/V	N/V	**500**	NT	**490**	NT	NT	NT	585	NT	452	NT	435	NT	399	384	362	321
pH (pH units)	6.5-8.5	N/V	8.2	7.8	NT	7.57	NT	NT	NT	8.11	NT	8.11	NT	8.1	NT	8.14	8.12	8.14	8.1
Total Dissolved Solids (mg/L)	N/V	N/V	394	NT	NT	NT	NT	NT	NT	500	NT	530	NT	592	NT	582	430	421	360
Turbidity (NTU)	1	N/V	N/V	**1.3**	NT	0.95	NT	NT	NT	1.03	NT	1.32	NT	1.82	NT	7.7	3.39	4.78	1.7
Alkalinity, Total (mg/L)	30-500	N/V	391.5	400	NT	410	NT	NT	NT	377	NT	423	NT	425	NT	418	348	369	336
Ammonia as N (mg/L)	N/V	N/V	N/V	2.3	NT	1.9	NT	NT	NT	1.31	NT	1.62	NT	1.33	NT	1.1	3.15	1.51	2.87
Chloride (mg/L)	250	250	125.5	30	NT	26	NT	NT	NT	36.8	NT	36.6	NT	43.7	NT	53.1	173	28.8	18.1
Fluoride (mg/L)	1.5	N/V	0.45	<0.1	NT	<0.1	NT	NT	NT	<0.10	NT	<0.1	NT	<0.10	NT	<0.1	<0.5	<0.10	0.052
Nitrite-N (mg/L)	1	1	0.3	<0.1	NT	<0.1	NT	NT	NT	1.48	NT	<0.1	NT	<0.10	NT	<0.1	<0.5	<0.10	0.015
Nitrate-N (mg/L)	10	10	2.6	3.9	NT	0.8	NT	NT	NT	<0.10	NT	0.62	NT	0.61	NT	2.45	6.48	0.55	0.576
Phosphate-P (ortho)	N/V	N/V	N/V	NT	NT	NT	NT	NT	NT	<0.0030	NT	<0.003	NT	<0.0030	NT	<0.003	0.0033	>0.003	<0.003
Sulphate (mg/L)	500	N/V	253.9	85	NT	62	NT	NT	NT	48.4	NT	48.8	NT	42.6	NT	52	206	26.6	23.8
Metal Scan-Total	**Units: mg/L**			mg/L															
Aluminum (Al)-Total	N/V	N/V	0.0525	<0.01	NT	<0.01	NT	NT	NT	<0.010	NT	<0.010	NT	<0.010	NT	<0.010	0.100	0.037	0.042
Antimony (Sb)-Total	N/V	0.006	N/V	<0.005	NT	<0.005	NT	NT	NT	<0.0050	NT	<0.0050	NT	<0.0050	NT	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic (As)-Total	0.025	0.025	N/V	<0.001	NT	<0.001	NT	NT	NT	<0.0010	NT	<0.0010	NT	<0.0010	NT	<0.0010	<0.0010	0.0011	<0.0010
Barium (Ba)-Total	1	1	N/V	0.05	NT	0.06	NT	NT	NT	0.049	NT	0.064	NT	0.058	NT	0.064	0.052	0.055	0.052
Beryllium (Be)-Total	N/V	0.004	N/V	<0.001	NT	<0.001	NT	NT	NT	<0.0010	NT	<0.0010	NT	<0.0010	NT	<0.0010	<0.0010	<0.0010	<0.0010
Bismuth (Bi)-Total	N/V	N/V	N/V	<0.001	NT	<0.001	NT	NT	NT	<0.0010	NT	<0.0010	NT	<0.0010	NT	<0.0010	<0.0010	<0.0010	<0.0010
Boron (B)-Total	5	5	2.5025	0.26	NT	0.19	NT	NT	NT	0.282	NT	0.23	NT	0.189	NT	0.21	0.188	0.236	0.159
Cadmium (Cd)-Total	0.005	0.005	N/V	<0.0001	NT	<0.0001	NT	NT	NT	0.0001	NT	<0.00010	NT	<0.00010	NT	<0.000090	<0.000090	<0.000090	<0.000090
Calcium (Ca)-Total	N/V	N/V	N/V	124	NT	123	NT	NT	NT	121	NT	101	NT	110	NT	92.8	95.2	78.4	79.4
Chromium (Cr)-Total	0.05	0.05	N/V	0.001	NT	<0.001	NT	NT	NT	0.0014	NT	<0.0010	NT	<0.0010	NT	<0.00050	0.00060	<0.00050	<0.00050
Cobalt (Co)-Total	N/V	0.1	N/V	<0.0005	NT	<0.0005	NT	NT	NT	<0.00050	NT	<0.00050	NT	<0.00050	NT	<0.00050	<0.00050	<0.00050	<0.00050
Copper (Cu)-Total	1	0.023	0.5007	0.002	NT	0.008	NT	NT	NT	0.0018	NT	0.0021	NT	0.0011	NT	<0.0010	0.0012	<0.0010	<0.0010
Iron (Fe)-Total	0.3	N/V	0.17	0.17	NT	<0.05	NT	NT	NT	<0.050	NT	<0.050	NT	0.053	NT	0.612	0.271	0.566	0.232
Lead (Pb)-Total	0.01	0.01	0.0027	<0.001	NT	<0.001	NT	NT	NT	<0.0010	NT	<0.0010	NT	<0.0010	NT	<0.0010	<0.0010	<0.0010	<0.0010
Magnesium (Mg)-Total	N/V	N/V	87	45.2	NT	45.1	NT	NT	NT	68.5	NT	48.2	NT	39	NT	40.6	35.7	40.3	29.7
Manganese (Mn)-Total	0.05	N/V	0.09	0.039	NT	0.022	NT	NT	NT	0.0074	NT	0.0829	NT	0.0291	NT	0.104	0.111	0.0333	0.0287
Molybdenum (Mo)-Total	N/V	7.3	N/V	<0.001	NT	<0.001	NT	NT	NT	<0.0010	NT	<0.0010	NT	<0.0010	NT	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (Ni)-Total	N/V	0.1	N/V	<0.002	NT	0.003	NT	NT	NT	0.0051	NT	<0.0020	NT	<0.0020	NT	<0.0020	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	N/V	N/V	N/V	<0.05	NT	<0.05	NT	NT	NT	<0.050	NT	<0.050	NT	<0.050	NT	<0.050	<0.050	<0.050	<0.050
Potassium (K)-Total	N/V	N/V	N/V	10	NT	13	NT	NT	NT	10.7	NT	12.1	NT	9.5	NT	12.9	9.0	11.9	8.1
Selenium (Se)-Total	0.01	0.01	N/V	<0.005	NT	<0.005	NT	NT	NT	<0.0050	NT	<0.0050	NT	<0.0050	NT	0.0004	<0.00040	<0.00040	<0.00040
Silicon (Si)-Total	N/V	N/V	N/V	3.5	NT	0.9	NT	NT	NT	2.27	NT	<1.0	NT	1.1	NT	<1.0	3.3	2.6	1.9
Silver (Ag)-Total	N/V	0.0012	N/V	<0.0001	NT	<0.0001	NT	NT	NT	<0.00010	NT	<0.00010	NT	<0.00010	NT	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	N/V	N/V	100.5	10	NT	13.8	NT	NT	NT	17.5	NT	17.1	NT	17.6	NT	19.4	19.0	17.2	11.3
Strontium (Sr)-Total	N/V	N/V	N/V	0.245	NT	0.273	NT	NT	NT	0.247	NT	0.247	NT	0.232	NT	0.263	0.220	0.214	0.173
Thallium (Tl)-Total	N/V	0.002	N/V	<0.0003	NT	<0.0003	NT	NT	NT	<0.00030	NT	<0.00030	NT	<0.00030	NT	<0.00030	<0.00030	<0.00030	<0.00030
Tin (Sn)-Total	N/V	N/V	N/V	<0.001	NT	<0.001	NT	NT	NT	<0.0010	NT	<0.0010	NT	<0.0010	NT	<0.0050	<0.0010	<0.0010	<0.0010
Titanium (Ti)-Total	N/V	N/V	N/V	0.003	NT	0.003	NT	NT	NT	<0.0020	NT	0.0025	NT	<0.0020	NT	<0.0020	0.0037	<0.0020	<0.0020
Tungsten (W)-Total	N/V	N/V	N/V	<0.01	NT	<0.01	NT	NT	NT	<0.010	NT	<0.010	NT	<0.010	NT	<0.010	<0.010	<0.010	<0.010
Uranium (U)-Total	N/V	N/V	N/V	<0.005	NT	<0.005	NT	NT	NT	<0.0050	NT	<0.0050	NT	<0.0050	NT	<0.0050	<0.0050	<0.0050	<0.0050
Vanadium (V)-Total	N/V	0.2	N/V	0.003	NT	<0.001	NT	NT	NT	0.0031	NT	<0.0010	NT	<0.0010	NT	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	5	1.1	0.005	0.006	NT	0.016	NT	NT	NT	0.011	NT	0.0079	NT	0.0106	NT	<0.0030	0.0035	0.0032	<0.0030
Zirconium (Zr)-Total	N/V	N/V	N/V	<0.004	NT	<0.004	NT	NT	NT	<0.0040	NT	<0.0040	NT	<0.0040	NT	<0.0040	<0.0040	<0.0040	<0.0040
Volatile Organics	**Units: µg/L**			µg/L															
1,1,1,2-Tetrachloroethane	N/V	200	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
1,1,2,2-Tetrachloroethane	N/V	1	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
1,1,1-Trichloroethane	N/V	200	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
1,1,2-Trichloroethane	N/V	5	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
1,2-Dibromoethane	N/V	N/V	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
1,1-Dichloroethane	N/V	70	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
1,1-Dichloroethylene	14	4.1	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
1,2-Dichlorobenzene	200	3	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
1,2-Dichloroethane	5	5	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
1,2-Dichloropropane	N/V	5	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5

1,3-Dichlorobenzene	N/V	630	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
1,4-Dichlorobenzene	5	1	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
2-Chloroethylvinyl Ether	N/V	N/V	N/V	NT	<20	NT	NT	NT	NT	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20
2-Hexanone	N/V	N/V	N/V	NT	<20	NT	NT	NT	NT	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20
Acetone	N/V	300	N/V	NT	<20	NT	NT	NT	NT	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20
Benzene	5	5	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Bromodichloromethane	N/V	5	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Bromoform	N/V	5	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Bromomethane	N/V	10	N/V	NT	<1	NT	NT	NT	NT	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
Carbon Disulfide	N/V	N/V	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Carbon tetrachloride	5	5	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Chlorobenzene	N/V	30	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Chloroethane	N/V	N/V	N/V	NT	<1	NT	NT	NT	NT	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
Chloroform	N/V	5	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Chloromethane	N/V	N/V	N/V	NT	<1	NT	NT	NT	NT	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
cis-1,2-Dichloroethylene	N/V	70	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
cis-1,3-Dichloropropene	N/V	1.4	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Dibromochloromethane	N/V	5	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Dichlorodifluoromethane	N/V	N/V	N/V	NT	<1	NT	NT	NT	NT	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
Dichloromethane	50	5	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Ethyl Benzene	2.4	2.4	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
m+p-Xylenes	N/V	N/V	N/V	NT	<1	NT	NT	NT	NT	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
Methyl Ethyl Ketone	N/V	350	N/V	NT	<20	NT	NT	NT	NT	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20
Methyl Isobutyl Ketone	N/V	350	N/V	NT	<20	NT	NT	NT	NT	NT	<20	NT	<20	NT	<20	NT	<20	NT	<20
MTBE	N/V	700	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
o-Xylene	N/V	N/V	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Styrene	N/V	100	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Tetrachloroethylene	30	5	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Toluene	24	24	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
trans-1,2-Dichloroethylene	N/V	0.1	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
trans-1,3-Dichloropropene	N/V	N/V	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Trichloroethylene	50	50	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Trichlorofluoromethane	N/V	N/V	N/V	NT	<1	NT	NT	NT	NT	NT	<1	NT	<1	NT	<1	NT	<1	NT	<1
Trihalomethanes (total)	100	N/V	N/V	NT	<2.0	NT	NT	NT	NT	NT	<2.0	NT	<2.0	NT	<2.0	NT	<2.0	NT	<2.0
Vinyl chloride	2	1.3	N/V	NT	<0.5	NT	NT	NT	NT	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5	NT	<0.5
Xylenes (Total)	300	300	N/V	NT	<1.5	NT	NT	NT	NT	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5	NT	<1.5

Notes:

OWDS - Ontario Drinking Water Standards (mg/L) from Ont. Reg. 169/03

SCS - Table 2 Site Condition Standards (mg/L) from Ont. Reg. 153/04

RUP - Reasonable Use Policy from Guideline B-7, MOEE, 1994

Values shown in **BOLD** exceed ODWS

N/V - No Value. No maximum concentration assigned.

NT - Not Tested, no analysis completed for this parameter/sample

Analyses completed at ALS Laboratoy Group in Waterloo, ON

APPENDIX C

LABORATORY ANALYSIS CERTIFICATES OF ANALYSIS

BLUEWATER GEOSCIENCE
ATTN: BRETON LEMIEUX
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Date Received: 29-APR-15
Report Date: 06-MAY-15 13:17 (MT)
Version: FINAL

Client Phone: 519-744-4123

Certificate of Analysis

Lab Work Order #: L1604943

Project P.O. #: NOT SUBMITTED
Job Reference: BG-530
C of C Numbers: 14-458113
Legal Site Desc:

N. Gudzak

Nellie Gudzak
Account Manager

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-1 OW-1									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	446		10	mg/L			30-500	30-APR-15	R3182631
Ammonia, Total (as N)	<0.050		0.050	mg/L				30-APR-15	R3182742
Chloride (Cl)	2.00		0.50	mg/L			250	30-APR-15	R3183030
Color, Apparent	61.0		1.0	C.U.		**	5	30-APR-15	R3182634
Conductivity	724		3.0	umhos/cm				29-APR-15	R3182336
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				30-APR-15	R3182907
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181953
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	30-APR-15	R3182986
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182986
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			30-APR-15	R3182986
Barium (Ba)-Dissolved	0.039		0.010	mg/L	1			30-APR-15	R3182986
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Boron (B)-Dissolved	0.055		0.050	mg/L	5			30-APR-15	R3182986
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182986
Calcium (Ca)-Dissolved	109		0.50	mg/L				30-APR-15	R3182986
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182986
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				30-APR-15	R3182986
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	30-APR-15	R3182986
Iron (Fe)-Dissolved	0.347		0.050	mg/L		**	0.3	30-APR-15	R3182986
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182986
Magnesium (Mg)-Dissolved	39.6		0.50	mg/L				30-APR-15	R3182986
Manganese (Mn)-Dissolved	0.0864		0.0010	mg/L		**	0.05	30-APR-15	R3182986
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182986
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182986
Potassium (K)-Dissolved	1.6		1.0	mg/L				30-APR-15	R3182986
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182986
Silicon (Si)-Dissolved	4.9		1.0	mg/L				30-APR-15	R3182986
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182986
Sodium (Na)-Dissolved	6.69		0.50	mg/L	20		200	30-APR-15	R3182986
Strontium (Sr)-Dissolved	0.158		0.0010	mg/L				30-APR-15	R3182986
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182986
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182986
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182986
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182986
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Zinc (Zn)-Dissolved	0.0071		0.0030	mg/L			5	30-APR-15	R3182986
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182986
Fluoride (F)	0.034		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	434		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	0.028		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Ontario DW Std O.Reg 169/03 JUNE 2007

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-1 OW-1									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Sulfate (SO4)	8.26		0.30	mg/L			500	30-APR-15	R3183030
Total Dissolved Solids	393		20	mg/L			500	02-MAY-15	R3183466
Turbidity	17.6		0.10	NTU		**	5	30-APR-15	R3182121
pH	7.88		0.10	pH units			6.5-8.5	29-APR-15	R3182315
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	01-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			01-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,1-Trichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,2-Trichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,2-Dibromoethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1-Dichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			01-MAY-15	R3182776
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			01-MAY-15	R3182776
1,2-Dichloroethane	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
1,2-Dichloropropane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,3-Dichlorobenzene	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
2-Hexanone	<20		20	ug/L				01-MAY-15	R3182776
Acetone	<20		20	ug/L				01-MAY-15	R3182776
Benzene	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
Bromodichloromethane	<1.0		1.0	ug/L				01-MAY-15	R3182776
Bromoform	<1.0		1.0	ug/L				01-MAY-15	R3182776
Bromomethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
Carbon Disulfide	<1.0		1.0	ug/L				01-MAY-15	R3182776
Carbon tetrachloride	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
Chlorobenzene	<0.50		0.50	ug/L	80			01-MAY-15	R3182776
Chloroethane	<1.0		1.0	ug/L				01-MAY-15	R3182776
Chloroform	<1.0		1.0	ug/L				01-MAY-15	R3182776
Chloromethane	<1.0		1.0	ug/L				01-MAY-15	R3182776
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L				01-MAY-15	R3182776
cis-1,3-Dichloropropene	<0.50		0.50	ug/L				01-MAY-15	R3182776
Dibromochloromethane	<1.0		1.0	ug/L				01-MAY-15	R3182776
Dichlorodifluoromethane	<1.0		1.0	ug/L				01-MAY-15	R3182776
Dichloromethane	<2.0		2.0	ug/L	50			01-MAY-15	R3182776
Ethylbenzene	<0.50		0.50	ug/L			2.4	01-MAY-15	R3182776
m+p-Xylenes	<1.0		1.0	ug/L				01-MAY-15	R3182776
Methyl Ethyl Ketone	<20		20	ug/L				01-MAY-15	R3182776
Methyl Isobutyl Ketone	<20		20	ug/L				01-MAY-15	R3182776
n-Hexane	<0.50		0.50	ug/L				01-MAY-15	R3182776
MTBE	<0.50		0.50	ug/L				01-MAY-15	R3182776
o-Xylene	<0.50		0.50	ug/L				01-MAY-15	R3182776
Styrene	<0.50		0.50	ug/L				01-MAY-15	R3182776
Tetrachloroethylene	<0.50		0.50	ug/L	30			01-MAY-15	R3182776
Toluene	<0.50		0.50	ug/L			24	01-MAY-15	R3182776

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Ontario DW Std O.Reg 169/03 JUNE 2007

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-1 OW-1								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Trichloroethylene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Trichlorofluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Vinyl chloride	<0.50		0.50	ug/L	2		01-MAY-15	R3182776
Surr: 1,4-Difluorobenzene	102.0		70-130	%			01-MAY-15	R3182776
Surr: 4-Bromofluorobenzene	94.4		70-130	%			01-MAY-15	R3182776
L1604943-2 OW-2S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	720	DLA	20	mg/L		30-500	30-APR-15	R3182631
Ammonia, Total (as N)	<0.050		0.050	mg/L			30-APR-15	R3182742
Chloride (Cl)	1.57		0.50	mg/L		250	30-APR-15	R3183030
Color, Apparent	65.3		1.0	C.U.		** 5	30-APR-15	R3182634
Conductivity	1250		3.0	umhos/cm			29-APR-15	R3182336
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182907
Dissolved Metals in Water by ICPMS								
Dissolved Metals Filtration Location	FIELD			No Unit			30-APR-15	R3181953
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	30-APR-15	R3182986
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182986
Arsenic (As)-Dissolved	0.0014		0.0010	mg/L	0.025		30-APR-15	R3182986
Barium (Ba)-Dissolved	0.076		0.010	mg/L	1		30-APR-15	R3182986
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182986
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182986
Boron (B)-Dissolved	0.444		0.050	mg/L	5		30-APR-15	R3182986
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		30-APR-15	R3182986
Calcium (Ca)-Dissolved	150		0.50	mg/L			30-APR-15	R3182986
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05		30-APR-15	R3182986
Cobalt (Co)-Dissolved	0.00141		0.00050	mg/L			30-APR-15	R3182986
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L		1	30-APR-15	R3182986
Iron (Fe)-Dissolved	0.690		0.050	mg/L		** 0.3	30-APR-15	R3182986
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		30-APR-15	R3182986
Magnesium (Mg)-Dissolved	73.8		0.50	mg/L			30-APR-15	R3182986
Manganese (Mn)-Dissolved	0.205		0.0010	mg/L		** 0.05	30-APR-15	R3182986
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182986
Nickel (Ni)-Dissolved	0.0037		0.0020	mg/L			30-APR-15	R3182986
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			30-APR-15	R3182986
Potassium (K)-Dissolved	2.1		1.0	mg/L			30-APR-15	R3182986
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		30-APR-15	R3182986
Silicon (Si)-Dissolved	7.7		1.0	mg/L			30-APR-15	R3182986
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			30-APR-15	R3182986
Sodium (Na)-Dissolved	21.1		0.50	mg/L	** 20	200	30-APR-15	R3182986

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-2 OW-2S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Strontium (Sr)-Dissolved	0.250		0.0010	mg/L				30-APR-15	R3182986
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182986
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182986
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182986
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182986
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Zinc (Zn)-Dissolved	0.0094		0.0030	mg/L			5	30-APR-15	R3182986
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182986
Fluoride (F)	0.028		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	679		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	<0.020		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030
Sulfate (SO4)	79.0		0.30	mg/L			500	30-APR-15	R3183030
Total Dissolved Solids	732		20	mg/L		**	500	02-MAY-15	R3183466
Turbidity	18.7		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.59		0.10	pH units			6.5-8.5	29-APR-15	R3182315
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	01-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			01-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,1-Trichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,2-Trichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,2-Dibromoethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1-Dichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			01-MAY-15	R3182776
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			01-MAY-15	R3182776
1,2-Dichloroethane	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
1,2-Dichloropropane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,3-Dichlorobenzene	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
2-Hexanone	<20		20	ug/L				01-MAY-15	R3182776
Acetone	<20		20	ug/L				01-MAY-15	R3182776
Benzene	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
Bromodichloromethane	<1.0		1.0	ug/L				01-MAY-15	R3182776
Bromoform	<1.0		1.0	ug/L				01-MAY-15	R3182776
Bromomethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
Carbon Disulfide	<1.0		1.0	ug/L				01-MAY-15	R3182776
Carbon tetrachloride	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
Chlorobenzene	<0.50		0.50	ug/L	80			01-MAY-15	R3182776
Chloroethane	<1.0		1.0	ug/L				01-MAY-15	R3182776
Chloroform	<1.0		1.0	ug/L				01-MAY-15	R3182776
Chloromethane	<1.0		1.0	ug/L				01-MAY-15	R3182776

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-2 OW-2S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Dibromochloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichlorodifluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichloromethane	<2.0		2.0	ug/L	50		01-MAY-15	R3182776
Ethylbenzene	<0.50		0.50	ug/L		2.4	01-MAY-15	R3182776
m+p-Xylenes	<1.0		1.0	ug/L			01-MAY-15	R3182776
Methyl Ethyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
Methyl Isobutyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
n-Hexane	<0.50		0.50	ug/L			01-MAY-15	R3182776
MTBE	<0.50		0.50	ug/L			01-MAY-15	R3182776
o-Xylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Styrene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Tetrachloroethylene	<0.50		0.50	ug/L	30		01-MAY-15	R3182776
Toluene	<0.50		0.50	ug/L		24	01-MAY-15	R3182776
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Trichloroethylene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Trichlorofluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Vinyl chloride	<0.50		0.50	ug/L	2		01-MAY-15	R3182776
Surr: 1,4-Difluorobenzene	102.2		70-130	%			01-MAY-15	R3182776
Surr: 4-Bromofluorobenzene	95.9		70-130	%			01-MAY-15	R3182776
L1604943-3 OW-2D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	629	DLA	20	mg/L		30-500	30-APR-15	R3182631
Ammonia, Total (as N)	7.60	DLA	0.50	mg/L			30-APR-15	R3182742
Chloride (Cl)	43.2		0.50	mg/L		250	30-APR-15	R3183030
Color, Apparent	111		1.0	C.U.		** 5	30-APR-15	R3182634
Conductivity	1290		3.0	umhos/cm			29-APR-15	R3182336
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182907
Dissolved Metals in Water by ICPMS								
Dissolved Metals Filtration Location	FIELD			No Unit			30-APR-15	R3181953
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	30-APR-15	R3182986
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182986
Arsenic (As)-Dissolved	0.0071		0.0010	mg/L	0.025		30-APR-15	R3182986
Barium (Ba)-Dissolved	0.185		0.010	mg/L	1		30-APR-15	R3182986
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182986
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182986
Boron (B)-Dissolved	0.390		0.050	mg/L	5		30-APR-15	R3182986
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		30-APR-15	R3182986
Calcium (Ca)-Dissolved	134		0.50	mg/L			30-APR-15	R3182986

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS		GUIDELINES	Analyzed	Batch
L1604943-3 OW-2D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER									
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182986
Cobalt (Co)-Dissolved	0.00705		0.00050	mg/L				30-APR-15	R3182986
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	30-APR-15	R3182986
Iron (Fe)-Dissolved	4.55		0.050	mg/L		**	0.3	30-APR-15	R3182986
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182986
Magnesium (Mg)-Dissolved	63.8		0.50	mg/L				30-APR-15	R3182986
Manganese (Mn)-Dissolved	0.972		0.0010	mg/L		**	0.05	30-APR-15	R3182986
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Nickel (Ni)-Dissolved	0.0174		0.0020	mg/L				30-APR-15	R3182986
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182986
Potassium (K)-Dissolved	9.7		1.0	mg/L				30-APR-15	R3182986
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182986
Silicon (Si)-Dissolved	6.8		1.0	mg/L				30-APR-15	R3182986
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182986
Sodium (Na)-Dissolved	36.4		0.50	mg/L	** 20		200	30-APR-15	R3182986
Strontium (Sr)-Dissolved	0.286		0.0010	mg/L				30-APR-15	R3182986
Thallium (Tl)-Dissolved	0.00035		0.00030	mg/L				30-APR-15	R3182986
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182986
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182986
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182986
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Zinc (Zn)-Dissolved	0.0640		0.0030	mg/L			5	30-APR-15	R3182986
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182986
Fluoride (F)	0.062		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	597		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	<0.020		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030
Sulfate (SO4)	88.6		0.30	mg/L			500	30-APR-15	R3183030
Total Dissolved Solids	728		20	mg/L		**	500	02-MAY-15	R3183466
Turbidity	33.0		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.41		0.10	pH units			6.5-8.5	29-APR-15	R3182315
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	01-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			01-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,1-Trichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,2-Trichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,2-Dibromoethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1-Dichloroethane	0.84		0.50	ug/L				01-MAY-15	R3182776
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			01-MAY-15	R3182776
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			01-MAY-15	R3182776
1,2-Dichloroethane	<0.50		0.50	ug/L	5			01-MAY-15	R3182776

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-3 OW-2D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
1,2-Dichloropropane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,3-Dichlorobenzene	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
2-Hexanone	<20		20	ug/L			01-MAY-15	R3182776
Acetone	<20		20	ug/L			01-MAY-15	R3182776
Benzene	0.52		0.50	ug/L	5		01-MAY-15	R3182776
Bromodichloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Bromoform	<1.0		1.0	ug/L			01-MAY-15	R3182776
Bromomethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
Carbon Disulfide	<1.0		1.0	ug/L			01-MAY-15	R3182776
Carbon tetrachloride	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Chlorobenzene	<0.50		0.50	ug/L	80		01-MAY-15	R3182776
Chloroethane	1.7		1.0	ug/L			01-MAY-15	R3182776
Chloroform	<1.0		1.0	ug/L			01-MAY-15	R3182776
Chloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Dibromochloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichlorodifluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichloromethane	<2.0		2.0	ug/L	50		01-MAY-15	R3182776
Ethylbenzene	<0.50		0.50	ug/L		2.4	01-MAY-15	R3182776
m+p-Xylenes	<1.0		1.0	ug/L			01-MAY-15	R3182776
Methyl Ethyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
Methyl Isobutyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
n-Hexane	<0.50		0.50	ug/L			01-MAY-15	R3182776
MTBE	<0.50		0.50	ug/L			01-MAY-15	R3182776
o-Xylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Styrene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Tetrachloroethylene	<0.50		0.50	ug/L	30		01-MAY-15	R3182776
Toluene	<0.50		0.50	ug/L		24	01-MAY-15	R3182776
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Trichloroethylene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Trichlorofluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Vinyl chloride	<0.50		0.50	ug/L	2		01-MAY-15	R3182776
Surr: 1,4-Difluorobenzene	102.0		70-130	%			01-MAY-15	R3182776
Surr: 4-Bromofluorobenzene	94.2		70-130	%			01-MAY-15	R3182776
L1604943-4 OW-3S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	417		10	mg/L		30-500	30-APR-15	R3182631
Ammonia, Total (as N)	0.051		0.050	mg/L			01-MAY-15	R3184038
Chloride (Cl)	<0.50		0.50	mg/L		250	30-APR-15	R3183030
Color, Apparent	65.9		1.0	C.U.	**	5	30-APR-15	R3182634

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-4 OW-3S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Conductivity	686		3.0	umhos/cm				29-APR-15	R3182336
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				30-APR-15	R3182907
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181953
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	30-APR-15	R3182986
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182986
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			30-APR-15	R3182986
Barium (Ba)-Dissolved	0.074		0.010	mg/L	1			30-APR-15	R3182986
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Boron (B)-Dissolved	0.110		0.050	mg/L	5			30-APR-15	R3182986
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182986
Calcium (Ca)-Dissolved	116		0.50	mg/L				30-APR-15	R3182986
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182986
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				30-APR-15	R3182986
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	30-APR-15	R3182986
Iron (Fe)-Dissolved	1.86		0.050	mg/L		**	0.3	30-APR-15	R3182986
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182986
Magnesium (Mg)-Dissolved	31.1		0.50	mg/L				30-APR-15	R3182986
Manganese (Mn)-Dissolved	0.112		0.0010	mg/L		**	0.05	30-APR-15	R3182986
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182986
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182986
Potassium (K)-Dissolved	3.9		1.0	mg/L				30-APR-15	R3182986
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182986
Silicon (Si)-Dissolved	3.8		1.0	mg/L				30-APR-15	R3182986
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182986
Sodium (Na)-Dissolved	10.1		0.50	mg/L	20		200	30-APR-15	R3182986
Strontium (Sr)-Dissolved	0.247		0.0010	mg/L				30-APR-15	R3182986
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182986
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182986
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182986
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182986
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Zinc (Zn)-Dissolved	0.0054		0.0030	mg/L			5	30-APR-15	R3182986
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182986
Fluoride (F)	0.025		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	418		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	0.059		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030
Sulfate (SO4)	1.85		0.30	mg/L			500	30-APR-15	R3183030
Total Dissolved Solids	383		20	mg/L			500	02-MAY-15	R3183466
Turbidity	42.0		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.66		0.10	pH units			6.5-8.5	29-APR-15	R3182315

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS	Criteria Specific Limits GUIDELINES	Analyzed	Batch
L1604943-4 OW-3S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER								
General Chemistry Package 1-Groundwater								
Individual Analytes								
Xylenes (Total)	<1.1		1.1	ug/L		300	01-MAY-15	
Total THMs	<2.0		2.0	ug/L	100		01-MAY-15	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1,1-Trichloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1,2-Trichloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,2-Dibromoethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1-Dichloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1-Dichloroethylene	<0.50		0.50	ug/L	14		01-MAY-15	R3182776
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200		01-MAY-15	R3182776
1,2-Dichloroethane	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
1,2-Dichloropropane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,3-Dichlorobenzene	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
2-Hexanone	<20		20	ug/L			01-MAY-15	R3182776
Acetone	<20		20	ug/L			01-MAY-15	R3182776
Benzene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Bromodichloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Bromoform	<1.0		1.0	ug/L			01-MAY-15	R3182776
Bromomethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
Carbon Disulfide	<1.0		1.0	ug/L			01-MAY-15	R3182776
Carbon tetrachloride	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Chlorobenzene	<0.50		0.50	ug/L	80		01-MAY-15	R3182776
Chloroethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Chloroform	<1.0		1.0	ug/L			01-MAY-15	R3182776
Chloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Dibromochloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichlorodifluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichloromethane	<2.0		2.0	ug/L	50		01-MAY-15	R3182776
Ethylbenzene	<0.50		0.50	ug/L		2.4	01-MAY-15	R3182776
m+p-Xylenes	<1.0		1.0	ug/L			01-MAY-15	R3182776
Methyl Ethyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
Methyl Isobutyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
n-Hexane	<0.50		0.50	ug/L			01-MAY-15	R3182776
MTBE	<0.50		0.50	ug/L			01-MAY-15	R3182776
o-Xylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Styrene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Tetrachloroethylene	<0.50		0.50	ug/L	30		01-MAY-15	R3182776
Toluene	<0.50		0.50	ug/L		24	01-MAY-15	R3182776
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Trichloroethylene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Trichlorofluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Vinyl chloride	<0.50		0.50	ug/L	2		01-MAY-15	R3182776

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-4 OW-3S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
Individual Analytes									
Volatile Organic Compounds									
Surr: 1,4-Difluorobenzene	102.0		70-130	%				01-MAY-15	R3182776
Surr: 4-Bromofluorobenzene	93.3		70-130	%				01-MAY-15	R3182776
L1604943-5 OW-3D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	827	DLA	20	mg/L			30-500	30-APR-15	R3182631
Ammonia, Total (as N)	25.2	DLA	2.5	mg/L				30-APR-15	R3182742
Chloride (Cl)	56.9		0.50	mg/L			250	30-APR-15	R3183030
Color, Apparent	336	DLA	2.0	C.U.		**	5	30-APR-15	R3182634
Conductivity	1580		3.0	umhos/cm				29-APR-15	R3182336
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				30-APR-15	R3182907
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181953
Aluminum (Al)-Dissolved	0.010		0.010	mg/L			0.1	30-APR-15	R3182986
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182986
Arsenic (As)-Dissolved	0.0031		0.0010	mg/L	0.025			30-APR-15	R3182986
Barium (Ba)-Dissolved	0.379		0.010	mg/L	1			30-APR-15	R3182986
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Boron (B)-Dissolved	0.646		0.050	mg/L	5			30-APR-15	R3182986
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182986
Calcium (Ca)-Dissolved	163		0.50	mg/L				30-APR-15	R3182986
Chromium (Cr)-Dissolved	0.00086		0.00050	mg/L	0.05			30-APR-15	R3182986
Cobalt (Co)-Dissolved	0.00094		0.00050	mg/L				30-APR-15	R3182986
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	30-APR-15	R3182986
Iron (Fe)-Dissolved	12.9		0.050	mg/L		**	0.3	30-APR-15	R3182986
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182986
Magnesium (Mg)-Dissolved	58.9		0.50	mg/L				30-APR-15	R3182986
Manganese (Mn)-Dissolved	0.770		0.0010	mg/L		**	0.05	30-APR-15	R3182986
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Nickel (Ni)-Dissolved	0.0043		0.0020	mg/L				30-APR-15	R3182986
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182986
Potassium (K)-Dissolved	22.7		1.0	mg/L				30-APR-15	R3182986
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182986
Silicon (Si)-Dissolved	6.4		1.0	mg/L				30-APR-15	R3182986
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182986
Sodium (Na)-Dissolved	52.5		0.50	mg/L	** 20		200	30-APR-15	R3182986
Strontium (Sr)-Dissolved	0.511		0.0010	mg/L				30-APR-15	R3182986
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182986
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182986
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182986

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-5 OW-3D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182986
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182986
Zinc (Zn)-Dissolved	0.0050		0.0030	mg/L			5	30-APR-15	R3182986
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182986
Fluoride (F)	<0.020		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	649		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	<0.020		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030
Sulfate (SO4)	54.6		0.30	mg/L			500	30-APR-15	R3183030
Total Dissolved Solids	847		20	mg/L		**	500	02-MAY-15	R3183466
Turbidity	111		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.06		0.10	pH units			6.5-8.5	29-APR-15	R3182315
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	01-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			01-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,1-Trichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,2-Trichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,2-Dibromoethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1-Dichloroethane	0.54		0.50	ug/L				01-MAY-15	R3182776
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			01-MAY-15	R3182776
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			01-MAY-15	R3182776
1,2-Dichloroethane	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
1,2-Dichloropropane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,3-Dichlorobenzene	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
2-Hexanone	<20		20	ug/L				01-MAY-15	R3182776
Acetone	<20		20	ug/L				01-MAY-15	R3182776
Benzene	1.17		0.50	ug/L	5			01-MAY-15	R3182776
Bromodichloromethane	<1.0		1.0	ug/L				01-MAY-15	R3182776
Bromoform	<1.0		1.0	ug/L				01-MAY-15	R3182776
Bromomethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
Carbon Disulfide	<1.0		1.0	ug/L				01-MAY-15	R3182776
Carbon tetrachloride	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
Chlorobenzene	<0.50		0.50	ug/L	80			01-MAY-15	R3182776
Chloroethane	2.7		1.0	ug/L				01-MAY-15	R3182776
Chloroform	<1.0		1.0	ug/L				01-MAY-15	R3182776
Chloromethane	<1.0		1.0	ug/L				01-MAY-15	R3182776
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L				01-MAY-15	R3182776
cis-1,3-Dichloropropene	<0.50		0.50	ug/L				01-MAY-15	R3182776
Dibromochloromethane	<1.0		1.0	ug/L				01-MAY-15	R3182776
Dichlorodifluoromethane	<1.0		1.0	ug/L				01-MAY-15	R3182776
Dichloromethane	<2.0		2.0	ug/L	50			01-MAY-15	R3182776

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-5 OW-3D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
Ethylbenzene	<0.50		0.50	ug/L		2.4	01-MAY-15	R3182776
m+p-Xylenes	<1.0		1.0	ug/L			01-MAY-15	R3182776
Methyl Ethyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
Methyl Isobutyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
n-Hexane	<0.50		0.50	ug/L			01-MAY-15	R3182776
MTBE	<0.50		0.50	ug/L			01-MAY-15	R3182776
o-Xylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Styrene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Tetrachloroethylene	<0.50		0.50	ug/L	30		01-MAY-15	R3182776
Toluene	<0.50		0.50	ug/L		24	01-MAY-15	R3182776
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Trichloroethylene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Trichlorofluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Vinyl chloride	<0.50		0.50	ug/L	2		01-MAY-15	R3182776
Surr: 1,4-Difluorobenzene	102.7		70-130	%			01-MAY-15	R3182776
Surr: 4-Bromofluorobenzene	95.0		70-130	%			01-MAY-15	R3182776
L1604943-6 OW-5								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	351		10	mg/L		30-500	30-APR-15	R3182631
Ammonia, Total (as N)	<0.050		0.050	mg/L			30-APR-15	R3182742
Chloride (Cl)	3.61		0.50	mg/L		250	30-APR-15	R3183030
Color, Apparent	67.7		1.0	C.U.		** 5	30-APR-15	R3182634
Conductivity	585		3.0	umhos/cm			29-APR-15	R3182336
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182907
Dissolved Metals in Water by ICPMS								
Dissolved Metals Filtration Location	FIELD			No Unit			30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		30-APR-15	R3182741
Barium (Ba)-Dissolved	0.014		0.010	mg/L	1		30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Boron (B)-Dissolved	<0.050		0.050	mg/L	5		30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		30-APR-15	R3182741
Calcium (Ca)-Dissolved	82.0		0.50	mg/L			30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05		30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L			30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L		1	30-APR-15	R3182741
Iron (Fe)-Dissolved	<0.050		0.050	mg/L		0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		30-APR-15	R3182741

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-6 OW-5									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Magnesium (Mg)-Dissolved	25.3		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.0163		0.0010	mg/L			0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	2.0		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	2.2		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	2.75		0.50	mg/L	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.0936		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	<0.0030		0.0030	mg/L			5	01-MAY-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.035		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	309		10	mg/L		**	80-100	04-MAY-15	
Nitrate (as N)	0.540		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030
Sulfate (SO4)	4.28		0.30	mg/L			500	30-APR-15	R3183030
Total Dissolved Solids	320		20	mg/L			500	02-MAY-15	R3183466
Turbidity	28.0		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.88		0.10	pH units			6.5-8.5	29-APR-15	R3182315
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	01-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			01-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,1-Trichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,2-Trichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,2-Dibromoethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1-Dichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			01-MAY-15	R3182776
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			01-MAY-15	R3182776
1,2-Dichloroethane	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
1,2-Dichloropropane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,3-Dichlorobenzene	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
2-Hexanone	<20		20	ug/L				01-MAY-15	R3182776
Acetone	<20		20	ug/L				01-MAY-15	R3182776

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-6 OW-5								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
Benzene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Bromodichloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Bromoform	<1.0		1.0	ug/L			01-MAY-15	R3182776
Bromomethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
Carbon Disulfide	<1.0		1.0	ug/L			01-MAY-15	R3182776
Carbon tetrachloride	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Chlorobenzene	<0.50		0.50	ug/L	80		01-MAY-15	R3182776
Chloroethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Chloroform	<1.0		1.0	ug/L			01-MAY-15	R3182776
Chloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Dibromochloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichlorodifluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichloromethane	<2.0		2.0	ug/L	50		01-MAY-15	R3182776
Ethylbenzene	<0.50		0.50	ug/L		2.4	01-MAY-15	R3182776
m+p-Xylenes	<1.0		1.0	ug/L			01-MAY-15	R3182776
Methyl Ethyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
Methyl Isobutyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
n-Hexane	<0.50		0.50	ug/L			01-MAY-15	R3182776
MTBE	<0.50		0.50	ug/L			01-MAY-15	R3182776
o-Xylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Styrene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Tetrachloroethylene	<0.50		0.50	ug/L	30		01-MAY-15	R3182776
Toluene	<0.50		0.50	ug/L		24	01-MAY-15	R3182776
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Trichloroethylene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Trichlorofluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Vinyl chloride	<0.50		0.50	ug/L	2		01-MAY-15	R3182776
Surr: 1,4-Difluorobenzene	102.1		70-130	%			01-MAY-15	R3182776
Surr: 4-Bromofluorobenzene	94.2		70-130	%			01-MAY-15	R3182776
L1604943-7 OW-6S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	235		10	mg/L		30-500	30-APR-15	R3182631
Ammonia, Total (as N)	0.286		0.050	mg/L			30-APR-15	R3182742
Chloride (Cl)	0.95		0.50	mg/L		250	30-APR-15	R3183030
Color, Apparent	103		1.0	C.U.		** 5	30-APR-15	R3182634
Conductivity	481		3.0	umhos/cm			29-APR-15	R3182336
Phosphate-P (ortho)	0.0082		0.0030	mg/L			30-APR-15	R3182907
Dissolved Metals in Water by ICPMS								

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS		GUIDELINES	Analyzed	Batch
L1604943-7 OW-6S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER									
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			30-APR-15	R3182741
Barium (Ba)-Dissolved	<0.010		0.010	mg/L	1			30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Boron (B)-Dissolved	<0.050		0.050	mg/L	5			30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182741
Calcium (Ca)-Dissolved	67.6		0.50	mg/L				30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	0.158		0.050	mg/L			0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	20.2		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.0473		0.0010	mg/L			0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	<1.0		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	2.2		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	0.65		0.50	mg/L	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.0616		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	<0.0030		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.041		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	252		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	0.025		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030
Sulfate (SO4)	1.67		0.30	mg/L			500	30-APR-15	R3183030
Total Dissolved Solids	272		20	mg/L			500	02-MAY-15	R3183466
Turbidity	108		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.84		0.10	pH units			6.5-8.5	29-APR-15	R3182315
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	01-MAY-15	

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-7 OW-6S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Total THMs	<2.0		2.0	ug/L	100		01-MAY-15	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1,1-Trichloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1,2-Trichloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,2-Dibromoethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1-Dichloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1-Dichloroethylene	<0.50		0.50	ug/L	14		01-MAY-15	R3182776
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200		01-MAY-15	R3182776
1,2-Dichloroethane	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
1,2-Dichloropropane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,3-Dichlorobenzene	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
2-Hexanone	<20		20	ug/L			01-MAY-15	R3182776
Acetone	<20		20	ug/L			01-MAY-15	R3182776
Benzene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Bromodichloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Bromoform	<1.0		1.0	ug/L			01-MAY-15	R3182776
Bromomethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
Carbon Disulfide	<1.0		1.0	ug/L			01-MAY-15	R3182776
Carbon tetrachloride	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Chlorobenzene	<0.50		0.50	ug/L	80		01-MAY-15	R3182776
Chloroethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Chloroform	<1.0		1.0	ug/L			01-MAY-15	R3182776
Chloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Dibromochloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichlorodifluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichloromethane	<2.0		2.0	ug/L	50		01-MAY-15	R3182776
Ethylbenzene	<0.50		0.50	ug/L		2.4	01-MAY-15	R3182776
m+p-Xylenes	<1.0		1.0	ug/L			01-MAY-15	R3182776
Methyl Ethyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
Methyl Isobutyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
n-Hexane	<0.50		0.50	ug/L			01-MAY-15	R3182776
MTBE	<0.50		0.50	ug/L			01-MAY-15	R3182776
o-Xylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Styrene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Tetrachloroethylene	<0.50		0.50	ug/L	30		01-MAY-15	R3182776
Toluene	<0.50		0.50	ug/L		24	01-MAY-15	R3182776
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Trichloroethylene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Trichlorofluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Vinyl chloride	<0.50		0.50	ug/L	2		01-MAY-15	R3182776
Surr: 1,4-Difluorobenzene	102.1		70-130	%			01-MAY-15	R3182776
Surr: 4-Bromofluorobenzene	94.8		70-130	%			01-MAY-15	R3182776

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-8 OW-6D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	288		10	mg/L			30-500	30-APR-15	R3182631
Ammonia, Total (as N)	0.081		0.050	mg/L				30-APR-15	R3182742
Chloride (Cl)	0.92		0.50	mg/L			250	30-APR-15	R3183030
Color, Apparent	165		1.0	C.U.		**	5	30-APR-15	R3182634
Conductivity	553		3.0	umhos/cm				29-APR-15	R3182336
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				30-APR-15	R3182907
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182741
Arsenic (As)-Dissolved	0.0027		0.0010	mg/L	0.025			30-APR-15	R3182741
Barium (Ba)-Dissolved	0.015		0.010	mg/L	1			30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Boron (B)-Dissolved	<0.050		0.050	mg/L	5			30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182741
Calcium (Ca)-Dissolved	74.8		0.50	mg/L				30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	0.00076		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	1.99		0.050	mg/L		**	0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	24.6		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.215		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	<1.0		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	3.2		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	1.14		0.50	mg/L	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.0725		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0080		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.041		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	288		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	<0.020		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS	GUIDELINES	Analyzed	Batch
L1604943-8 OW-6D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER								
General Chemistry Package 1-Groundwater								
Sulfate (SO4)	5.37		0.30	mg/L		500	30-APR-15	R3183030
Total Dissolved Solids	322		20	mg/L		500	02-MAY-15	R3183466
Turbidity	29.0		0.10	NTU		** 5	30-APR-15	R3182124
pH	7.65		0.10	pH units		6.5-8.5	29-APR-15	R3182315
Individual Analytes								
Xylenes (Total)	<1.1		1.1	ug/L		300	01-MAY-15	
Total THMs	<2.0		2.0	ug/L	100		01-MAY-15	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1,1-Trichloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1,2-Trichloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,2-Dibromoethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1-Dichloroethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,1-Dichloroethylene	<0.50		0.50	ug/L	14		01-MAY-15	R3182776
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200		01-MAY-15	R3182776
1,2-Dichloroethane	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
1,2-Dichloropropane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,3-Dichlorobenzene	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
2-Hexanone	<20		20	ug/L			01-MAY-15	R3182776
Acetone	<20		20	ug/L			01-MAY-15	R3182776
Benzene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Bromodichloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Bromoform	<1.0		1.0	ug/L			01-MAY-15	R3182776
Bromomethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
Carbon Disulfide	<1.0		1.0	ug/L			01-MAY-15	R3182776
Carbon tetrachloride	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Chlorobenzene	<0.50		0.50	ug/L	80		01-MAY-15	R3182776
Chloroethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Chloroform	<1.0		1.0	ug/L			01-MAY-15	R3182776
Chloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Dibromochloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichlorodifluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichloromethane	<2.0		2.0	ug/L	50		01-MAY-15	R3182776
Ethylbenzene	<0.50		0.50	ug/L		2.4	01-MAY-15	R3182776
m+p-Xylenes	<1.0		1.0	ug/L			01-MAY-15	R3182776
Methyl Ethyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
Methyl Isobutyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
n-Hexane	<0.50		0.50	ug/L			01-MAY-15	R3182776
MTBE	<0.50		0.50	ug/L			01-MAY-15	R3182776
o-Xylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Styrene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Tetrachloroethylene	<0.50		0.50	ug/L	30		01-MAY-15	R3182776
Toluene	<0.50		0.50	ug/L		24	01-MAY-15	R3182776

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-8 OW-6D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
Individual Analytes									
Volatile Organic Compounds									
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L				01-MAY-15	R3182776
trans-1,3-Dichloropropene	<0.50		0.50	ug/L				01-MAY-15	R3182776
Trichloroethylene	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
Trichlorofluoromethane	<1.0		1.0	ug/L				01-MAY-15	R3182776
Vinyl chloride	<0.50		0.50	ug/L	2			01-MAY-15	R3182776
Surr: 1,4-Difluorobenzene	102.0		70-130	%				01-MAY-15	R3182776
Surr: 4-Bromofluorobenzene	94.3		70-130	%				01-MAY-15	R3182776
L1604943-9 OW-7S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	587	DLA	20	mg/L			30-500	30-APR-15	R3182631
Ammonia, Total (as N)	0.420		0.050	mg/L				30-APR-15	R3182742
Chloride (Cl)	30.9		0.50	mg/L			250	30-APR-15	R3183030
Color, Apparent	131		1.0	C.U.		**	5	30-APR-15	R3182634
Conductivity	1170		3.0	umhos/cm				29-APR-15	R3182336
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				30-APR-15	R3182907
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182741
Arsenic (As)-Dissolved	0.0048		0.0010	mg/L	0.025			30-APR-15	R3182741
Barium (Ba)-Dissolved	0.087		0.010	mg/L	1			30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Boron (B)-Dissolved	0.175		0.050	mg/L	5			30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182741
Calcium (Ca)-Dissolved	156		0.50	mg/L				30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	0.00153		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	4.16		0.050	mg/L		**	0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	55.0		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.391		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	0.0032		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	6.1		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	5.4		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	16.1		0.50	mg/L	20		200	30-APR-15	R3182741

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-9 OW-7S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Strontium (Sr)-Dissolved	0.276		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0213		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.059		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	616		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	<0.020		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030
Sulfate (SO4)	90.4		0.30	mg/L			500	30-APR-15	R3183030
Total Dissolved Solids	722		20	mg/L		**	500	02-MAY-15	R3183466
Turbidity	79.0		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.34		0.10	pH units			6.5-8.5	29-APR-15	R3182315
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	01-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			01-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,1-Trichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,2-Trichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,2-Dibromoethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1-Dichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			01-MAY-15	R3182776
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			01-MAY-15	R3182776
1,2-Dichloroethane	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
1,2-Dichloropropane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,3-Dichlorobenzene	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
2-Hexanone	<20		20	ug/L				01-MAY-15	R3182776
Acetone	<20		20	ug/L				01-MAY-15	R3182776
Benzene	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
Bromodichloromethane	<1.0		1.0	ug/L				01-MAY-15	R3182776
Bromoform	<1.0		1.0	ug/L				01-MAY-15	R3182776
Bromomethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
Carbon Disulfide	<1.0		1.0	ug/L				01-MAY-15	R3182776
Carbon tetrachloride	<0.50		0.50	ug/L	5			01-MAY-15	R3182776
Chlorobenzene	<0.50		0.50	ug/L	80			01-MAY-15	R3182776
Chloroethane	<1.0		1.0	ug/L				01-MAY-15	R3182776
Chloroform	<1.0		1.0	ug/L				01-MAY-15	R3182776
Chloromethane	<1.0		1.0	ug/L				01-MAY-15	R3182776

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-9 OW-7S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Dibromochloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichlorodifluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichloromethane	<2.0		2.0	ug/L	50		01-MAY-15	R3182776
Ethylbenzene	<0.50		0.50	ug/L		2.4	01-MAY-15	R3182776
m+p-Xylenes	<1.0		1.0	ug/L			01-MAY-15	R3182776
Methyl Ethyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
Methyl Isobutyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
n-Hexane	<0.50		0.50	ug/L			01-MAY-15	R3182776
MTBE	<0.50		0.50	ug/L			01-MAY-15	R3182776
o-Xylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Styrene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Tetrachloroethylene	<0.50		0.50	ug/L	30		01-MAY-15	R3182776
Toluene	<0.50		0.50	ug/L		24	01-MAY-15	R3182776
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Trichloroethylene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Trichlorofluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Vinyl chloride	<0.50		0.50	ug/L	2		01-MAY-15	R3182776
Surr: 1,4-Difluorobenzene	101.7		70-130	%			01-MAY-15	R3182776
Surr: 4-Bromofluorobenzene	94.3		70-130	%			01-MAY-15	R3182776
L1604943-10 OW-7D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	697	DLA	20	mg/L		30-500	30-APR-15	R3182631
Ammonia, Total (as N)	10.9	DLA	0.50	mg/L			30-APR-15	R3182742
Chloride (Cl)	55.7		0.50	mg/L		250	30-APR-15	R3183030
Color, Apparent	136		1.0	C.U.		** 5	30-APR-15	R3182634
Conductivity	1480		3.0	umhos/cm			29-APR-15	R3182336
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182907
Dissolved Metals in Water by ICPMS								
Dissolved Metals Filtration Location	FIELD			No Unit			30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182741
Arsenic (As)-Dissolved	0.0018		0.0010	mg/L	0.025		30-APR-15	R3182741
Barium (Ba)-Dissolved	0.119		0.010	mg/L	1		30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Boron (B)-Dissolved	0.504		0.050	mg/L	5		30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		30-APR-15	R3182741
Calcium (Ca)-Dissolved	122		0.50	mg/L			30-APR-15	R3182741

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-10 OW-7D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	0.00383		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	5.57		0.050	mg/L		**	0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	74.2		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.192		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	0.0092		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	23.2		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	6.0		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	40.5		0.50	mg/L	** 20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.342		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	0.00072		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.108		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.058		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	609		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	0.031		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030
Sulfate (SO4)	129		0.30	mg/L			500	30-APR-15	R3183030
Total Dissolved Solids	828		20	mg/L		**	500	02-MAY-15	R3183466
Turbidity	23.0		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.44		0.10	pH units			6.5-8.5	29-APR-15	R3182315
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	01-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			01-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,1-Trichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1,2-Trichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,2-Dibromoethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1-Dichloroethane	<0.50		0.50	ug/L				01-MAY-15	R3182776
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			01-MAY-15	R3182776
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			01-MAY-15	R3182776
1,2-Dichloroethane	<0.50		0.50	ug/L	5			01-MAY-15	R3182776

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-10 OW-7D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
1,2-Dichloropropane	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,3-Dichlorobenzene	<0.50		0.50	ug/L			01-MAY-15	R3182776
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
2-Hexanone	<20		20	ug/L			01-MAY-15	R3182776
Acetone	<20		20	ug/L			01-MAY-15	R3182776
Benzene	0.67		0.50	ug/L	5		01-MAY-15	R3182776
Bromodichloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Bromoform	<1.0		1.0	ug/L			01-MAY-15	R3182776
Bromomethane	<0.50		0.50	ug/L			01-MAY-15	R3182776
Carbon Disulfide	<1.0		1.0	ug/L			01-MAY-15	R3182776
Carbon tetrachloride	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Chlorobenzene	<0.50		0.50	ug/L	80		01-MAY-15	R3182776
Chloroethane	1.2		1.0	ug/L			01-MAY-15	R3182776
Chloroform	<1.0		1.0	ug/L			01-MAY-15	R3182776
Chloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Dibromochloromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichlorodifluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Dichloromethane	<2.0		2.0	ug/L	50		01-MAY-15	R3182776
Ethylbenzene	<0.50		0.50	ug/L		2.4	01-MAY-15	R3182776
m+p-Xylenes	<1.0		1.0	ug/L			01-MAY-15	R3182776
Methyl Ethyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
Methyl Isobutyl Ketone	<20		20	ug/L			01-MAY-15	R3182776
n-Hexane	<0.50		0.50	ug/L			01-MAY-15	R3182776
MTBE	<0.50		0.50	ug/L			01-MAY-15	R3182776
o-Xylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Styrene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Tetrachloroethylene	<0.50		0.50	ug/L	30		01-MAY-15	R3182776
Toluene	<0.50		0.50	ug/L		24	01-MAY-15	R3182776
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			01-MAY-15	R3182776
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			01-MAY-15	R3182776
Trichloroethylene	<0.50		0.50	ug/L	5		01-MAY-15	R3182776
Trichlorofluoromethane	<1.0		1.0	ug/L			01-MAY-15	R3182776
Vinyl chloride	<0.50		0.50	ug/L	2		01-MAY-15	R3182776
Surr: 1,4-Difluorobenzene	102.9		70-130	%			01-MAY-15	R3182776
Surr: 4-Bromofluorobenzene	93.9		70-130	%			01-MAY-15	R3182776
L1604943-11 OW-8								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	395		10	mg/L		30-500	30-APR-15	R3182631
Ammonia, Total (as N)	<0.050		0.050	mg/L			30-APR-15	R3182762
Chloride (Cl)	12.5		0.50	mg/L		250	30-APR-15	R3183030
Color, Apparent	24.1		1.0	C.U.		** 5	30-APR-15	R3182634

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-11 OW-8									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Conductivity	1690		3.0	umhos/cm				29-APR-15	R3182336
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				30-APR-15	R3182907
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			30-APR-15	R3182741
Barium (Ba)-Dissolved	0.048		0.010	mg/L	1			30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Boron (B)-Dissolved	0.532		0.050	mg/L	5			30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182741
Calcium (Ca)-Dissolved	189		0.50	mg/L				30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	0.0019		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	0.462		0.050	mg/L		**	0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	94.4		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.0473		0.0010	mg/L			0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	10.6		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	3.3		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	16.9		0.50	mg/L	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.395		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0061		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.025		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	860		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	2.18		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	0.011		0.010	mg/L	1			30-APR-15	R3183030
Sulfate (SO4)	550		0.30	mg/L		**	500	30-APR-15	R3183030
Total Dissolved Solids	1270		20	mg/L		**	500	02-MAY-15	R3183466
Turbidity	6.30		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.67		0.10	pH units			6.5-8.5	29-APR-15	R3182315

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS	Criteria Specific Limits GUIDELINES	Analyzed	Batch
L1604943-11 OW-8								
Sampled By: BJL on 29-APR-15								
Matrix: WATER								
General Chemistry Package 1-Groundwater								
Individual Analytes								
Xylenes (Total)	<1.1		1.1	ug/L		300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100		04-MAY-15	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1,2-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,2-Dibromoethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1-Dichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1-Dichloroethylene	<0.50		0.50	ug/L	14		04-MAY-15	R3183949
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200		04-MAY-15	R3183949
1,2-Dichloroethane	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
1,2-Dichloropropane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,3-Dichlorobenzene	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
2-Hexanone	<20		20	ug/L			04-MAY-15	R3183949
Acetone	<20		20	ug/L			04-MAY-15	R3183949
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183949
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183949
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183949
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183949
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183949
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183949
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183949
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183949
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183949
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183949
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183949
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183949

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-11 OW-8								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
Surr: 1,4-Difluorobenzene	100.3		70-130	%			04-MAY-15	R3183949
Surr: 4-Bromofluorobenzene	98.8		70-130	%			04-MAY-15	R3183949
L1604943-12 OW-9S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	442	DLA	20	mg/L		30-500	30-APR-15	R3182631
Ammonia, Total (as N)	<0.050		0.050	mg/L			30-APR-15	R3182762
Chloride (Cl)	32.1		0.50	mg/L		250	30-APR-15	R3183030
Color, Apparent	74.5		1.0	C.U.		** 5	30-APR-15	R3182635
Conductivity	914		3.0	umhos/cm			29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182907
Dissolved Metals in Water by ICPMS								
Dissolved Metals Filtration Location	FIELD			No Unit			30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		30-APR-15	R3182741
Barium (Ba)-Dissolved	0.035		0.010	mg/L	1		30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Boron (B)-Dissolved	0.050		0.050	mg/L	5		01-MAY-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		30-APR-15	R3182741
Calcium (Ca)-Dissolved	114		0.50	mg/L			30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05		30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L			30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L		1	30-APR-15	R3182741
Iron (Fe)-Dissolved	<0.050		0.050	mg/L		0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		30-APR-15	R3182741
Magnesium (Mg)-Dissolved	33.1		0.50	mg/L			30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.0507		0.0010	mg/L		** 0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L			30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			30-APR-15	R3182741
Potassium (K)-Dissolved	2.0		1.0	mg/L			30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		30-APR-15	R3182741
Silicon (Si)-Dissolved	4.2		1.0	mg/L			30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			30-APR-15	R3182741
Sodium (Na)-Dissolved	32.4		0.50	mg/L	** 20	200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.164		0.0010	mg/L			30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L			30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L			30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L			30-APR-15	R3182741

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-12 OW-9S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	<0.0030		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	<0.020		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	420		10	mg/L		**	80-100	04-MAY-15	
Nitrate (as N)	0.145		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030
Sulfate (SO4)	4.35		0.30	mg/L			500	30-APR-15	R3183030
Total Dissolved Solids	455		20	mg/L			500	02-MAY-15	R3183466
Turbidity	70.0		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.45		0.10	pH units			6.5-8.5	29-APR-15	R3182315
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			04-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,1-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,2-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,2-Dibromoethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1-Dichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			04-MAY-15	R3183949
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			04-MAY-15	R3183949
1,2-Dichloroethane	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
1,2-Dichloropropane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,3-Dichlorobenzene	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
2-Hexanone	<20		20	ug/L				04-MAY-15	R3183949
Acetone	<20		20	ug/L				04-MAY-15	R3183949
Benzene	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
Bromodichloromethane	<1.0		1.0	ug/L				04-MAY-15	R3183949
Bromoform	<1.0		1.0	ug/L				04-MAY-15	R3183949
Bromomethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
Carbon Disulfide	<1.0		1.0	ug/L				04-MAY-15	R3183949
Carbon tetrachloride	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
Chlorobenzene	<0.50		0.50	ug/L	80			04-MAY-15	R3183949
Chloroethane	<1.0		1.0	ug/L				04-MAY-15	R3183949
Chloroform	<1.0		1.0	ug/L				04-MAY-15	R3183949
Chloromethane	<1.0		1.0	ug/L				04-MAY-15	R3183949
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L				04-MAY-15	R3183949
cis-1,3-Dichloropropene	<0.50		0.50	ug/L				04-MAY-15	R3183949
Dibromochloromethane	<1.0		1.0	ug/L				04-MAY-15	R3183949
Dichlorodifluoromethane	<1.0		1.0	ug/L				04-MAY-15	R3183949
Dichloromethane	<2.0		2.0	ug/L	50			04-MAY-15	R3183949

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-12 OW-9S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183949
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183949
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183949
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183949
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183949
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183949
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183949
Surr: 1,4-Difluorobenzene	99.8		70-130	%			04-MAY-15	R3183949
Surr: 4-Bromofluorobenzene	98.0		70-130	%			04-MAY-15	R3183949
L1604943-13 OW-9D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	460		10	mg/L		30-500	30-APR-15	R3182631
Ammonia, Total (as N)	2.73	DLA	0.10	mg/L			01-MAY-15	R3184038
Chloride (Cl)	34.7		0.50	mg/L		250	30-APR-15	R3183030
Color, Apparent	16.9		1.0	C.U.		** 5	30-APR-15	R3182635
Conductivity	978		3.0	umhos/cm			29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182907
Dissolved Metals in Water by ICPMS								
Dissolved Metals Filtration Location	FIELD			No Unit			30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		30-APR-15	R3182741
Barium (Ba)-Dissolved	0.085		0.010	mg/L	1		30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Boron (B)-Dissolved	0.235		0.050	mg/L	5		30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		30-APR-15	R3182741
Calcium (Ca)-Dissolved	106		0.50	mg/L			30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05		30-APR-15	R3182741
Cobalt (Co)-Dissolved	0.00120		0.00050	mg/L			30-APR-15	R3182741
Copper (Cu)-Dissolved	0.0011		0.0010	mg/L		1	30-APR-15	R3182741
Iron (Fe)-Dissolved	0.173		0.050	mg/L		0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		30-APR-15	R3182741

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-13 OW-9D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Magnesium (Mg)-Dissolved	51.8		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.381		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	0.0033		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	10.7		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	4.8		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	17.4		0.50	mg/L	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.234		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0098		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.053		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	477		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	3.31		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030
Sulfate (SO4)	49.5		0.30	mg/L			500	30-APR-15	R3183030
Total Dissolved Solids	534		20	mg/L		**	500	02-MAY-15	R3183466
Turbidity	2.00		0.10	NTU			5	30-APR-15	R3182124
pH	7.66		0.10	pH units			6.5-8.5	29-APR-15	R3182315
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			04-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,1-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,2-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,2-Dibromoethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1-Dichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			04-MAY-15	R3183949
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			04-MAY-15	R3183949
1,2-Dichloroethane	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
1,2-Dichloropropane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,3-Dichlorobenzene	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
2-Hexanone	<20		20	ug/L				04-MAY-15	R3183949
Acetone	<20		20	ug/L				04-MAY-15	R3183949

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-13 OW-9D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183949
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183949
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183949
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183949
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183949
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183949
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183949
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183949
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183949
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183949
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183949
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183949
Surr: 1,4-Difluorobenzene	99.7		70-130	%			04-MAY-15	R3183949
Surr: 4-Bromofluorobenzene	97.5		70-130	%			04-MAY-15	R3183949
L1604943-14 OW-10S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	327		10	mg/L		30-500	30-APR-15	R3182631
Ammonia, Total (as N)	<0.050		0.050	mg/L			30-APR-15	R3182762
Chloride (Cl)	0.76		0.50	mg/L		250	30-APR-15	R3183030
Color, Apparent	87.0		1.0	C.U.	**	5	30-APR-15	R3182635
Conductivity	533		3.0	umhos/cm			29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182907
Dissolved Metals in Water by ICPMS								

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS		GUIDELINES	Analyzed	Batch
L1604943-14 OW-10S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER									
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			30-APR-15	R3182741
Barium (Ba)-Dissolved	0.014		0.010	mg/L	1			30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Boron (B)-Dissolved	<0.050		0.050	mg/L	5			30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182741
Calcium (Ca)-Dissolved	69.9		0.50	mg/L				30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	0.345		0.050	mg/L		**	0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	27.1		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.282		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	<1.0		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	1.9		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	1.23		0.50	mg/L	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.0630		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0035		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.046		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	286		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	<0.020		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030
Sulfate (SO4)	3.28		0.30	mg/L			500	30-APR-15	R3183030
Total Dissolved Solids	282		20	mg/L			500	02-MAY-15	R3183466
Turbidity	40.0		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.83		0.10	pH units			6.5-8.5	29-APR-15	R3182315
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	04-MAY-15	

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS	Criteria Specific Limits GUIDELINES	Analyzed	Batch
L1604943-14 OW-10S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER								
Individual Analytes								
Total THMs	<2.0		2.0	ug/L	100		04-MAY-15	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1,2-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,2-Dibromoethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1-Dichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1-Dichloroethylene	<0.50		0.50	ug/L	14		04-MAY-15	R3183949
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200		04-MAY-15	R3183949
1,2-Dichloroethane	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
1,2-Dichloropropane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,3-Dichlorobenzene	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
2-Hexanone	<20		20	ug/L			04-MAY-15	R3183949
Acetone	<20		20	ug/L			04-MAY-15	R3183949
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183949
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183949
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183949
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183949
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183949
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183949
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183949
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183949
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183949
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183949
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183949
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183949
Surr: 1,4-Difluorobenzene	99.5		70-130	%			04-MAY-15	R3183949
Surr: 4-Bromofluorobenzene	97.6		70-130	%			04-MAY-15	R3183949

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-15 OW-10D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	367	DLA	20	mg/L			30-500	30-APR-15	R3182631
Ammonia, Total (as N)	0.139		0.050	mg/L				30-APR-15	R3182762
Chloride (Cl)	2.46		0.50	mg/L			250	30-APR-15	R3183030
Color, Apparent	12.9		1.0	C.U.		**	5	30-APR-15	R3182635
Conductivity	616		3.0	umhos/cm				29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				30-APR-15	R3182907
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			30-APR-15	R3182741
Barium (Ba)-Dissolved	0.074		0.010	mg/L	1			30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Boron (B)-Dissolved	<0.050		0.050	mg/L	5			30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182741
Calcium (Ca)-Dissolved	75.2		0.50	mg/L				30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	0.0021		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	<0.050		0.050	mg/L			0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	32.0		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.494		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	0.0040		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	<1.0		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	3.3		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	2.86		0.50	mg/L	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.0890		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0237		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.051		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	320		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	0.110		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-15 OW-10D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Sulfate (SO4)	7.70		0.30	mg/L		500	30-APR-15	R3183030
Total Dissolved Solids	328		20	mg/L		500	02-MAY-15	R3183466
Turbidity	3.00		0.10	NTU		5	30-APR-15	R3182124
pH	7.86		0.10	pH units		6.5-8.5	29-APR-15	R3182315
Individual Analytes								
Xylenes (Total)	<1.1		1.1	ug/L		300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100		04-MAY-15	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1,2-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,2-Dibromoethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1-Dichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1-Dichloroethylene	<0.50		0.50	ug/L	14		04-MAY-15	R3183949
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200		04-MAY-15	R3183949
1,2-Dichloroethane	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
1,2-Dichloropropane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,3-Dichlorobenzene	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
2-Hexanone	<20		20	ug/L			04-MAY-15	R3183949
Acetone	<20		20	ug/L			04-MAY-15	R3183949
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183949
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183949
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183949
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183949
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183949
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183949
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183949
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183949
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183949
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183949
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183949

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-15 OW-10D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183949
Surr: 1,4-Difluorobenzene	99.5		70-130	%			04-MAY-15	R3183949
Surr: 4-Bromofluorobenzene	95.8		70-130	%			04-MAY-15	R3183949
L1604943-16 OW-12S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	266		10	mg/L		30-500	30-APR-15	R3182631
Ammonia, Total (as N)	<0.050		0.050	mg/L			30-APR-15	R3182762
Chloride (Cl)	4.87		0.50	mg/L		250	30-APR-15	R3183030
Color, Apparent	223		1.0	C.U.		** 5	30-APR-15	R3182635
Conductivity	492		3.0	umhos/cm			29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182907
Dissolved Metals in Water by ICPMS								
Dissolved Metals Filtration Location	FIELD			No Unit			30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		30-APR-15	R3182741
Barium (Ba)-Dissolved	0.010		0.010	mg/L	1		30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Boron (B)-Dissolved	<0.050		0.050	mg/L	5		01-MAY-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		30-APR-15	R3182741
Calcium (Ca)-Dissolved	61.6		0.50	mg/L			30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05		30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L			30-APR-15	R3182741
Copper (Cu)-Dissolved	0.0010		0.0010	mg/L		1	30-APR-15	R3182741
Iron (Fe)-Dissolved	<0.050		0.050	mg/L		0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		30-APR-15	R3182741
Magnesium (Mg)-Dissolved	23.1		0.50	mg/L			30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.0026		0.0010	mg/L		0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L			30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			30-APR-15	R3182741
Potassium (K)-Dissolved	<1.0		1.0	mg/L			30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		30-APR-15	R3182741
Silicon (Si)-Dissolved	1.6		1.0	mg/L			30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			30-APR-15	R3182741
Sodium (Na)-Dissolved	2.11		0.50	mg/L	20	200	30-APR-15	R3182741

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-16 OW-12S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Strontium (Sr)-Dissolved	0.0568		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	<0.0030		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.054		0.020	mg/L	1.5			30-APR-15	R3183030
Hardness (as CaCO3)	249		10	mg/L		**	80-100	04-MAY-15	
Nitrate (as N)	2.93		0.020	mg/L	10			30-APR-15	R3183030
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183030
Sulfate (SO4)	9.22		0.30	mg/L			500	30-APR-15	R3183030
Total Dissolved Solids	280		20	mg/L			500	02-MAY-15	R3183466
Turbidity	233		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.80		0.10	pH units			6.5-8.5	29-APR-15	R3182315
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			04-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,1-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,2-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,2-Dibromoethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1-Dichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			04-MAY-15	R3183949
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			04-MAY-15	R3183949
1,2-Dichloroethane	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
1,2-Dichloropropane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,3-Dichlorobenzene	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
2-Hexanone	<20		20	ug/L				04-MAY-15	R3183949
Acetone	<20		20	ug/L				04-MAY-15	R3183949
Benzene	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
Bromodichloromethane	<1.0		1.0	ug/L				04-MAY-15	R3183949
Bromoform	<1.0		1.0	ug/L				04-MAY-15	R3183949
Bromomethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
Carbon Disulfide	<1.0		1.0	ug/L				04-MAY-15	R3183949
Carbon tetrachloride	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
Chlorobenzene	<0.50		0.50	ug/L	80			04-MAY-15	R3183949
Chloroethane	<1.0		1.0	ug/L				04-MAY-15	R3183949
Chloroform	<1.0		1.0	ug/L				04-MAY-15	R3183949
Chloromethane	<1.0		1.0	ug/L				04-MAY-15	R3183949

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-16 OW-12S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183949
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183949
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183949
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183949
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183949
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183949
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183949
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183949
Surr: 1,4-Difluorobenzene	99.6		70-130	%			04-MAY-15	R3183949
Surr: 4-Bromofluorobenzene	95.5		70-130	%			04-MAY-15	R3183949
L1604943-17 OW-12D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	242		10	mg/L		30-500	30-APR-15	R3182631
Ammonia, Total (as N)	<0.050		0.050	mg/L			30-APR-15	R3182762
Chloride (Cl)	4.81		0.50	mg/L		250	30-APR-15	R3183036
Color, Apparent	74.0		1.0	C.U.		** 5	30-APR-15	R3182635
Conductivity	475		3.0	umhos/cm			29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182907
Dissolved Metals in Water by ICPMS								
Dissolved Metals Filtration Location	FIELD			No Unit			30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		30-APR-15	R3182741
Barium (Ba)-Dissolved	0.011		0.010	mg/L	1		30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Boron (B)-Dissolved	<0.050		0.050	mg/L	5		30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		30-APR-15	R3182741
Calcium (Ca)-Dissolved	63.4		0.50	mg/L			30-APR-15	R3182741

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-17 OW-12D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	0.0012		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	<0.050		0.050	mg/L			0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	23.9		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.0059		0.0010	mg/L			0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	<1.0		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	1.7		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	2.70		0.50	mg/L	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.0598		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0128		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.051		0.020	mg/L	1.5			30-APR-15	R3183036
Hardness (as CaCO3)	257		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	1.75		0.020	mg/L	10			30-APR-15	R3183036
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183036
Sulfate (SO4)	9.47		0.30	mg/L			500	30-APR-15	R3183036
Total Dissolved Solids	240		20	mg/L			500	02-MAY-15	R3183469
Turbidity	12.1		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.89		0.10	pH units			6.5-8.5	29-APR-15	R3182315
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			04-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,1-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,2-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,2-Dibromoethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1-Dichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			04-MAY-15	R3183949
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			04-MAY-15	R3183949
1,2-Dichloroethane	<0.50		0.50	ug/L	5			04-MAY-15	R3183949

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-17 OW-12D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
1,2-Dichloropropane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,3-Dichlorobenzene	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
2-Hexanone	<20		20	ug/L			04-MAY-15	R3183949
Acetone	<20		20	ug/L			04-MAY-15	R3183949
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183949
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183949
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183949
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183949
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183949
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183949
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183949
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183949
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183949
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183949
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183949
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183949
Surr: 1,4-Difluorobenzene	99.6		70-130	%			04-MAY-15	R3183949
Surr: 4-Bromofluorobenzene	95.9		70-130	%			04-MAY-15	R3183949
L1604943-18 OW-13S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	285		10	mg/L		30-500	30-APR-15	R3182631
Ammonia, Total (as N)	0.068		0.050	mg/L			30-APR-15	R3182762
Chloride (Cl)	2.17		0.50	mg/L		250	30-APR-15	R3183036
Color, Apparent	136		1.0	C.U.		** 5	30-APR-15	R3182635

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-18 OW-13S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Conductivity	491		3.0	umhos/cm				29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				30-APR-15	R3182907
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181954
Aluminum (Al)-Dissolved	0.020		0.010	mg/L			0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			30-APR-15	R3182741
Barium (Ba)-Dissolved	0.014		0.010	mg/L	1			30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Boron (B)-Dissolved	<0.050		0.050	mg/L	5			30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182741
Calcium (Ca)-Dissolved	63.0		0.50	mg/L				30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	0.132		0.050	mg/L			0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	22.7		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.0798		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	<1.0		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	1.8		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	3.32		0.50	mg/L	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.0801		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0055		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.047		0.020	mg/L	1.5			30-APR-15	R3183036
Hardness (as CaCO3)	251		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	0.033		0.020	mg/L	10			30-APR-15	R3183036
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183036
Sulfate (SO4)	18.3		0.30	mg/L			500	30-APR-15	R3183036
Total Dissolved Solids	296		20	mg/L			500	02-MAY-15	R3183469
Turbidity	65.0		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.91		0.10	pH units			6.5-8.5	29-APR-15	R3182321

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS	Criteria Specific Limits GUIDELINES	Analyzed	Batch
L1604943-18 OW-13S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER								
General Chemistry Package 1-Groundwater								
Individual Analytes								
Xylenes (Total)	<1.1		1.1	ug/L		300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100		04-MAY-15	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1,2-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,2-Dibromoethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1-Dichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,1-Dichloroethylene	<0.50		0.50	ug/L	14		04-MAY-15	R3183949
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200		04-MAY-15	R3183949
1,2-Dichloroethane	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
1,2-Dichloropropane	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,3-Dichlorobenzene	<0.50		0.50	ug/L			04-MAY-15	R3183949
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
2-Hexanone	<20		20	ug/L			04-MAY-15	R3183949
Acetone	<20		20	ug/L			04-MAY-15	R3183949
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183949
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183949
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183949
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183949
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183949
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183949
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183949
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183949
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183949
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183949
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183949
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183949

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-18 OW-13S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
Individual Analytes									
Volatile Organic Compounds									
Surr: 1,4-Difluorobenzene	99.1		70-130	%				04-MAY-15	R3183949
Surr: 4-Bromofluorobenzene	95.6		70-130	%				04-MAY-15	R3183949
L1604943-19 OW-13D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	466		10	mg/L			30-500	30-APR-15	R3182631
Ammonia, Total (as N)	1.60		0.050	mg/L				30-APR-15	R3182762
Chloride (Cl)	10.5		0.50	mg/L			250	30-APR-15	R3183036
Color, Apparent	184		1.0	C.U.		**	5	30-APR-15	R3182635
Conductivity	903		3.0	umhos/cm				29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				30-APR-15	R3182907
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			30-APR-15	R3182741
Barium (Ba)-Dissolved	0.035		0.010	mg/L	1			30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Boron (B)-Dissolved	0.104		0.050	mg/L	5			30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182741
Calcium (Ca)-Dissolved	106		0.50	mg/L				30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	1.26		0.050	mg/L		**	0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	36.1		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.193		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	2.2		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	3.5		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	9.05		0.50	mg/L	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.171		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-19 OW-13D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0281		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.044		0.020	mg/L	1.5			30-APR-15	R3183036
Hardness (as CaCO3)	414		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	0.031		0.020	mg/L	10			30-APR-15	R3183036
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183036
Sulfate (SO4)	80.8		0.30	mg/L			500	30-APR-15	R3183036
Total Dissolved Solids	537		20	mg/L		**	500	02-MAY-15	R3183469
Turbidity	120		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.68		0.10	pH units			6.5-8.5	29-APR-15	R3182321
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			04-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,1-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,2-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,2-Dibromoethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1-Dichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			04-MAY-15	R3183949
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			04-MAY-15	R3183949
1,2-Dichloroethane	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
1,2-Dichloropropane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,3-Dichlorobenzene	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
2-Hexanone	<20		20	ug/L				04-MAY-15	R3183949
Acetone	<20		20	ug/L				04-MAY-15	R3183949
Benzene	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
Bromodichloromethane	<1.0		1.0	ug/L				04-MAY-15	R3183949
Bromoform	<1.0		1.0	ug/L				04-MAY-15	R3183949
Bromomethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
Carbon Disulfide	<1.0		1.0	ug/L				04-MAY-15	R3183949
Carbon tetrachloride	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
Chlorobenzene	<0.50		0.50	ug/L	80			04-MAY-15	R3183949
Chloroethane	<1.0		1.0	ug/L				04-MAY-15	R3183949
Chloroform	<1.0		1.0	ug/L				04-MAY-15	R3183949
Chloromethane	<1.0		1.0	ug/L				04-MAY-15	R3183949
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L				04-MAY-15	R3183949
cis-1,3-Dichloropropene	<0.50		0.50	ug/L				04-MAY-15	R3183949
Dibromochloromethane	<1.0		1.0	ug/L				04-MAY-15	R3183949
Dichlorodifluoromethane	<1.0		1.0	ug/L				04-MAY-15	R3183949
Dichloromethane	<2.0		2.0	ug/L	50			04-MAY-15	R3183949

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-19 OW-13D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183949
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183949
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183949
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183949
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183949
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183949
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183949
Surr: 1,4-Difluorobenzene	98.9		70-130	%			04-MAY-15	R3183949
Surr: 4-Bromofluorobenzene	95.2		70-130	%			04-MAY-15	R3183949
L1604943-20 OW-15S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	445		10	mg/L		30-500	30-APR-15	R3182631
Ammonia, Total (as N)	<0.050		0.050	mg/L			30-APR-15	R3182762
Chloride (Cl)	<0.50		0.50	mg/L		250	30-APR-15	R3183036
Color, Apparent	94.0		1.0	C.U.		** 5	30-APR-15	R3182635
Conductivity	727		3.0	umhos/cm			29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182907
Dissolved Metals in Water by ICPMS								
Dissolved Metals Filtration Location	FIELD			No Unit			30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		30-APR-15	R3182741
Barium (Ba)-Dissolved	0.035		0.010	mg/L	1		30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Boron (B)-Dissolved	<0.050		0.050	mg/L	5		30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		30-APR-15	R3182741
Calcium (Ca)-Dissolved	92.9		0.50	mg/L			30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05		30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L			30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L		1	30-APR-15	R3182741
Iron (Fe)-Dissolved	0.137		0.050	mg/L		0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		30-APR-15	R3182741

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-20 OW-15S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Magnesium (Mg)-Dissolved	36.5		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.104		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	<1.0		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	5.6		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	4.51		0.50	mg/L	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.141		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	<0.0030		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.059		0.020	mg/L	1.5			30-APR-15	R3183036
Hardness (as CaCO3)	382		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	<0.020		0.020	mg/L	10			30-APR-15	R3183036
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183036
Sulfate (SO4)	18.9		0.30	mg/L			500	30-APR-15	R3183036
Total Dissolved Solids	414		20	mg/L			500	02-MAY-15	R3183469
Turbidity	55.0		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.74		0.10	pH units			6.5-8.5	29-APR-15	R3182321
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			04-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,1-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1,2-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,2-Dibromoethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1-Dichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			04-MAY-15	R3183949
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			04-MAY-15	R3183949
1,2-Dichloroethane	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
1,2-Dichloropropane	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,3-Dichlorobenzene	<0.50		0.50	ug/L				04-MAY-15	R3183949
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5			04-MAY-15	R3183949
2-Hexanone	<20		20	ug/L				04-MAY-15	R3183949
Acetone	<20		20	ug/L				04-MAY-15	R3183949

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-20 OW-15S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183949
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183949
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183949
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183949
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183949
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183949
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183949
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183949
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183949
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183949
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183949
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183949
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183949
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183949
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183949
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183949
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183949
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183949
Surr: 1,4-Difluorobenzene	98.5		70-130	%			04-MAY-15	R3183949
Surr: 4-Bromofluorobenzene	94.5		70-130	%			04-MAY-15	R3183949
L1604943-21 OW-15D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	384		10	mg/L		30-500	30-APR-15	R3182629
Ammonia, Total (as N)	0.753		0.050	mg/L			30-APR-15	R3182762
Chloride (Cl)	6.84		0.50	mg/L		250	30-APR-15	R3183036
Color, Apparent	74.5		1.0	C.U.	**	5	30-APR-15	R3182635
Conductivity	709		3.0	umhos/cm			29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182911
Dissolved Metals in Water by ICPMS								

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS		GUIDELINES	Analyzed	Batch
L1604943-21 OW-15D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER									
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182741
Arsenic (As)-Dissolved	0.0030		0.0010	mg/L	0.025			30-APR-15	R3182741
Barium (Ba)-Dissolved	0.042		0.010	mg/L	1			30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Boron (B)-Dissolved	0.056		0.050	mg/L	5			30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182741
Calcium (Ca)-Dissolved	87.7		0.50	mg/L				30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	1.81		0.050	mg/L		**	0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	34.0		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.119		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	1.4		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	4.6		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	6.72		0.50	mg/L	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.129		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0057		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.060		0.020	mg/L	1.5			30-APR-15	R3183036
Hardness (as CaCO3)	359		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	0.021		0.020	mg/L	10			30-APR-15	R3183036
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183036
Sulfate (SO4)	34.0		0.30	mg/L			500	30-APR-15	R3183036
Total Dissolved Solids	382		20	mg/L			500	02-MAY-15	R3183469
Turbidity	19.0		0.10	NTU		**	5	30-APR-15	R3182124
pH	7.65		0.10	pH units			6.5-8.5	29-APR-15	R3182321
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	04-MAY-15	

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-21 OW-15D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Total THMs	<2.0		2.0	ug/L	100		04-MAY-15	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,2-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,2-Dibromoethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1-Dichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1-Dichloroethylene	<0.50		0.50	ug/L	14		04-MAY-15	R3183850
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200		04-MAY-15	R3183850
1,2-Dichloroethane	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
1,2-Dichloropropane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,3-Dichlorobenzene	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
2-Hexanone	<20		20	ug/L			04-MAY-15	R3183850
Acetone	<20		20	ug/L			04-MAY-15	R3183850
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183850
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183850
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183850
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183850
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183850
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183850
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183850
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183850
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183850
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183850
Surr: 1,4-Difluorobenzene	98.0		70-130	%			04-MAY-15	R3183850
Surr: 4-Bromofluorobenzene	90.8		70-130	%			04-MAY-15	R3183850

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-22 OW-16S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	337		10	mg/L			30-500	30-APR-15	R3182629
Ammonia, Total (as N)	0.057		0.050	mg/L				30-APR-15	R3182762
Chloride (Cl)	6.39		0.50	mg/L			250	30-APR-15	R3183036
Color, Apparent	140		1.0	C.U.		**	5	30-APR-15	R3182635
Conductivity	573		3.0	umhos/cm				29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				30-APR-15	R3182911
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			30-APR-15	R3182741
Barium (Ba)-Dissolved	0.028		0.010	mg/L	1			30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Boron (B)-Dissolved	<0.050		0.050	mg/L	5			30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182741
Calcium (Ca)-Dissolved	89.0		0.50	mg/L				30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	0.0012		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	<0.050		0.050	mg/L			0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	26.7		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.0585		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	1.9		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	5.1		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	5.97		0.50	mg/L	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.126		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	<0.0030		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.048		0.020	mg/L	1.5			30-APR-15	R3183036
Hardness (as CaCO3)	332		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	0.261		0.020	mg/L	10			30-APR-15	R3183036
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183036

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS	GUIDELINES	Analyzed	Batch
L1604943-22 OW-16S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER								
General Chemistry Package 1-Groundwater								
Sulfate (SO4)	7.66		0.30	mg/L		500	30-APR-15	R3183036
Total Dissolved Solids	328		20	mg/L		500	02-MAY-15	R3183469
Turbidity	51.0		0.10	NTU		** 5	30-APR-15	R3182127
pH	7.81		0.10	pH units		6.5-8.5	29-APR-15	R3182321
Individual Analytes								
Xylenes (Total)	<1.1		1.1	ug/L		300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100		04-MAY-15	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,2-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,2-Dibromoethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1-Dichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1-Dichloroethylene	<0.50		0.50	ug/L	14		04-MAY-15	R3183850
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200		04-MAY-15	R3183850
1,2-Dichloroethane	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
1,2-Dichloropropane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,3-Dichlorobenzene	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
2-Hexanone	<20		20	ug/L			04-MAY-15	R3183850
Acetone	<20		20	ug/L			04-MAY-15	R3183850
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183850
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183850
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183850
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183850
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183850
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183850
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183850
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183850
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183850

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-22 OW-16S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183850
Surr: 1,4-Difluorobenzene	97.5		70-130	%			04-MAY-15	R3183850
Surr: 4-Bromofluorobenzene	89.5		70-130	%			04-MAY-15	R3183850
L1604943-23 OW-16D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	566	DLA	20	mg/L		30-500	30-APR-15	R3182629
Ammonia, Total (as N)	5.35	DLA	0.50	mg/L			30-APR-15	R3182762
Chloride (Cl)	53.1		0.50	mg/L		250	30-APR-15	R3183036
Color, Apparent	47.5		1.0	C.U.		** 5	30-APR-15	R3182635
Conductivity	1190		3.0	umhos/cm			29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182911
Dissolved Metals in Water by ICPMS								
Dissolved Metals Filtration Location	FIELD			No Unit			30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		30-APR-15	R3182741
Barium (Ba)-Dissolved	0.125		0.010	mg/L	1		30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Boron (B)-Dissolved	0.315		0.050	mg/L	5		30-APR-15	R3182741
Cadmium (Cd)-Dissolved	0.000122		0.000090	mg/L	0.005		30-APR-15	R3182741
Calcium (Ca)-Dissolved	119		0.50	mg/L			30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05		30-APR-15	R3182741
Cobalt (Co)-Dissolved	0.00262		0.00050	mg/L			30-APR-15	R3182741
Copper (Cu)-Dissolved	0.0020		0.0010	mg/L		1	30-APR-15	R3182741
Iron (Fe)-Dissolved	0.270		0.050	mg/L		0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	0.0048		0.0010	mg/L	0.01		30-APR-15	R3182741
Magnesium (Mg)-Dissolved	60.3		0.50	mg/L			30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.569		0.0010	mg/L		** 0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Nickel (Ni)-Dissolved	0.0082		0.0020	mg/L			30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			30-APR-15	R3182741
Potassium (K)-Dissolved	14.1		1.0	mg/L			30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		30-APR-15	R3182741
Silicon (Si)-Dissolved	5.4		1.0	mg/L			30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			30-APR-15	R3182741
Sodium (Na)-Dissolved	27.5		0.50	mg/L	** 20	200	30-APR-15	R3182741

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-23 OW-16D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Strontium (Sr)-Dissolved	0.267		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	0.00035		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0192		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.058		0.020	mg/L	1.5			30-APR-15	R3183036
Hardness (as CaCO3)	545		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	0.143		0.020	mg/L	10			30-APR-15	R3183036
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183036
Sulfate (SO4)	62.8		0.30	mg/L			500	30-APR-15	R3183036
Total Dissolved Solids	633		20	mg/L		**	500	02-MAY-15	R3183469
Turbidity	8.40		0.10	NTU		**	5	30-APR-15	R3182127
pH	7.60		0.10	pH units			6.5-8.5	29-APR-15	R3182321
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			04-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1,1-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1,2-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,2-Dibromoethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1-Dichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			04-MAY-15	R3183850
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			04-MAY-15	R3183850
1,2-Dichloroethane	<0.50		0.50	ug/L	5			04-MAY-15	R3183850
1,2-Dichloropropane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,3-Dichlorobenzene	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5			04-MAY-15	R3183850
2-Hexanone	<20		20	ug/L				04-MAY-15	R3183850
Acetone	<20		20	ug/L				04-MAY-15	R3183850
Benzene	<0.50		0.50	ug/L	5			04-MAY-15	R3183850
Bromodichloromethane	<1.0		1.0	ug/L				04-MAY-15	R3183850
Bromoform	<1.0		1.0	ug/L				04-MAY-15	R3183850
Bromomethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
Carbon Disulfide	<1.0		1.0	ug/L				04-MAY-15	R3183850
Carbon tetrachloride	<0.50		0.50	ug/L	5			04-MAY-15	R3183850
Chlorobenzene	<0.50		0.50	ug/L	80			04-MAY-15	R3183850
Chloroethane	<1.0		1.0	ug/L				04-MAY-15	R3183850
Chloroform	<1.0		1.0	ug/L				04-MAY-15	R3183850
Chloromethane	<1.0		1.0	ug/L				04-MAY-15	R3183850

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-23 OW-16D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183850
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183850
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183850
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183850
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183850
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183850
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183850
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183850
Surr: 1,4-Difluorobenzene	98.7		70-130	%			04-MAY-15	R3183850
Surr: 4-Bromofluorobenzene	90.7		70-130	%			04-MAY-15	R3183850
L1604943-24 OW-18S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	694	DLA	20	mg/L		30-500	30-APR-15	R3182629
Ammonia, Total (as N)	7.12	DLA	0.50	mg/L			30-APR-15	R3182762
Chloride (Cl)	59.7		0.50	mg/L		250	30-APR-15	R3183036
Color, Apparent	86.8		1.0	C.U.		** 5	30-APR-15	R3182635
Conductivity	1500		3.0	umhos/cm			29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182911
Dissolved Metals in Water by ICPMS								
Dissolved Metals Filtration Location	FIELD			No Unit			30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		30-APR-15	R3182741
Barium (Ba)-Dissolved	0.164		0.010	mg/L	1		30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Boron (B)-Dissolved	0.535		0.050	mg/L	5		30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		30-APR-15	R3182741
Calcium (Ca)-Dissolved	143		0.50	mg/L			30-APR-15	R3182741

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-24 OW-18S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	0.00230		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	3.32		0.050	mg/L		**	0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	80.4		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.380		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	0.0044		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	17.8		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	6.4		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	39.1		0.50	mg/L	** 20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.367		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0051		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.059		0.020	mg/L	1.5			30-APR-15	R3183036
Hardness (as CaCO3)	688		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	0.068		0.020	mg/L	10			30-APR-15	R3183036
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183036
Sulfate (SO4)	140		0.30	mg/L			500	30-APR-15	R3183036
Total Dissolved Solids	847		20	mg/L		**	500	02-MAY-15	R3183469
Turbidity	12.6		0.10	NTU		**	5	30-APR-15	R3182127
pH	7.44		0.10	pH units			6.5-8.5	29-APR-15	R3182321
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			04-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1,1-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1,2-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,2-Dibromoethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1-Dichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			04-MAY-15	R3183850
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			04-MAY-15	R3183850
1,2-Dichloroethane	<0.50		0.50	ug/L	5			04-MAY-15	R3183850

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-24 OW-18S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
1,2-Dichloropropane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,3-Dichlorobenzene	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
2-Hexanone	<20		20	ug/L			04-MAY-15	R3183850
Acetone	<20		20	ug/L			04-MAY-15	R3183850
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183850
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183850
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183850
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183850
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183850
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183850
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183850
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183850
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183850
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183850
Surr: 1,4-Difluorobenzene	98.3		70-130	%			04-MAY-15	R3183850
Surr: 4-Bromofluorobenzene	90.3		70-130	%			04-MAY-15	R3183850
L1604943-25 OW-18D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	688	DLA	20	mg/L		30-500	30-APR-15	R3182629
Ammonia, Total (as N)	12.0	DLA	0.50	mg/L			30-APR-15	R3182762
Chloride (Cl)	56.3		0.50	mg/L		250	30-APR-15	R3183036
Color, Apparent	116		1.0	C.U.		** 5	30-APR-15	R3182635

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS		GUIDELINES	Analyzed	Batch
L1604943-25 OW-18D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER									
General Chemistry Package 1-Groundwater									
Conductivity	1480		3.0	umhos/cm				29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				30-APR-15	R3182911
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181954
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182741
Arsenic (As)-Dissolved	0.0055		0.0010	mg/L	0.025			30-APR-15	R3182741
Barium (Ba)-Dissolved	0.127		0.010	mg/L	1			30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Boron (B)-Dissolved	0.540		0.050	mg/L	5			30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182741
Calcium (Ca)-Dissolved	129		0.50	mg/L				30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	0.00682		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	4.22		0.050	mg/L		**	0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	0.0011		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	77.6		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.216		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	0.0012		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	0.0104		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	24.6		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	5.7		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	38.3		0.50	mg/L	** 20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.370		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	0.00063		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.108		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.063		0.020	mg/L	1.5			30-APR-15	R3183036
Hardness (as CaCO3)	641		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	<0.020		0.020	mg/L	10			30-APR-15	R3183036
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183036
Sulfate (SO4)	123		0.30	mg/L			500	30-APR-15	R3183036
Total Dissolved Solids	779		20	mg/L		**	500	02-MAY-15	R3183469
Turbidity	19.7		0.10	NTU		**	5	30-APR-15	R3182127
pH	7.44		0.10	pH units			6.5-8.5	29-APR-15	R3182321

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-25 OW-18D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Individual Analytes								
Xylenes (Total)	<1.1		1.1	ug/L		300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100		04-MAY-15	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,2-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,2-Dibromoethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1-Dichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1-Dichloroethylene	<0.50		0.50	ug/L	14		04-MAY-15	R3183850
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200		04-MAY-15	R3183850
1,2-Dichloroethane	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
1,2-Dichloropropane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,3-Dichlorobenzene	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
2-Hexanone	<20		20	ug/L			04-MAY-15	R3183850
Acetone	<20		20	ug/L			04-MAY-15	R3183850
Benzene	0.52		0.50	ug/L	5		04-MAY-15	R3183850
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183850
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183850
Chloroethane	1.1		1.0	ug/L			04-MAY-15	R3183850
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183850
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183850
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183850
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183850
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183850
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183850
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183850
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183850

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-25 OW-18D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
Surr: 1,4-Difluorobenzene	97.9		70-130	%			04-MAY-15	R3183850
Surr: 4-Bromofluorobenzene	90.1		70-130	%			04-MAY-15	R3183850
L1604943-26 OW-19S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	323		10	mg/L		30-500	30-APR-15	R3182629
Ammonia, Total (as N)	<0.050		0.050	mg/L			01-MAY-15	R3184038
Chloride (Cl)	2.90		0.50	mg/L		250	30-APR-15	R3183036
Color, Apparent	84.1		1.0	C.U.		** 5	30-APR-15	R3182635
Conductivity	557		3.0	umhos/cm			29-APR-15	R3185269
Phosphate-P (ortho)	0.0035		0.0030	mg/L			30-APR-15	R3182911
Dissolved Metals in Water by ICPMS								
Dissolved Metals Filtration Location	FIELD			No Unit			30-APR-15	R3181955
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182741
Arsenic (As)-Dissolved	0.0023		0.0010	mg/L	0.025		30-APR-15	R3182741
Barium (Ba)-Dissolved	0.023		0.010	mg/L	1		30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Boron (B)-Dissolved	0.059		0.050	mg/L	5		30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		30-APR-15	R3182741
Calcium (Ca)-Dissolved	42.0		0.50	mg/L			30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05		30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L			30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L		1	30-APR-15	R3182741
Iron (Fe)-Dissolved	<0.050		0.050	mg/L		0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		30-APR-15	R3182741
Magnesium (Mg)-Dissolved	42.1		0.50	mg/L			30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.0252		0.0010	mg/L		0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	0.0036		0.0010	mg/L			30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L			30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			30-APR-15	R3182741
Potassium (K)-Dissolved	1.8		1.0	mg/L			30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		30-APR-15	R3182741
Silicon (Si)-Dissolved	6.2		1.0	mg/L			30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			30-APR-15	R3182741
Sodium (Na)-Dissolved	13.9		0.50	mg/L	20	200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.175		0.0010	mg/L			30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L			30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L			30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L			30-APR-15	R3182741

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-26 OW-19S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0038		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.263		0.020	mg/L	1.5			30-APR-15	R3183036
Hardness (as CaCO3)	278		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	0.021		0.020	mg/L	10			30-APR-15	R3183036
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183036
Sulfate (SO4)	11.6		0.30	mg/L			500	30-APR-15	R3183036
Total Dissolved Solids	302		20	mg/L			500	02-MAY-15	R3183469
Turbidity	43.0		0.10	NTU		**	5	30-APR-15	R3182127
pH	8.11		0.10	pH units			6.5-8.5	29-APR-15	R3182321
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100			04-MAY-15	
Volatile Organic Compounds									
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1,1-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1,2-Trichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,2-Dibromoethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1-Dichloroethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,1-Dichloroethylene	<0.50		0.50	ug/L	14			04-MAY-15	R3183850
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200			04-MAY-15	R3183850
1,2-Dichloroethane	<0.50		0.50	ug/L	5			04-MAY-15	R3183850
1,2-Dichloropropane	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,3-Dichlorobenzene	<0.50		0.50	ug/L				04-MAY-15	R3183850
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5			04-MAY-15	R3183850
2-Hexanone	<20		20	ug/L				04-MAY-15	R3183850
Acetone	<20		20	ug/L				04-MAY-15	R3183850
Benzene	<0.50		0.50	ug/L	5			04-MAY-15	R3183850
Bromodichloromethane	<1.0		1.0	ug/L				04-MAY-15	R3183850
Bromoform	<1.0		1.0	ug/L				04-MAY-15	R3183850
Bromomethane	<0.50		0.50	ug/L				04-MAY-15	R3183850
Carbon Disulfide	<1.0		1.0	ug/L				04-MAY-15	R3183850
Carbon tetrachloride	<0.50		0.50	ug/L	5			04-MAY-15	R3183850
Chlorobenzene	<0.50		0.50	ug/L	80			04-MAY-15	R3183850
Chloroethane	<1.0		1.0	ug/L				04-MAY-15	R3183850
Chloroform	<1.0		1.0	ug/L				04-MAY-15	R3183850
Chloromethane	<1.0		1.0	ug/L				04-MAY-15	R3183850
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L				04-MAY-15	R3183850
cis-1,3-Dichloropropene	<0.50		0.50	ug/L				04-MAY-15	R3183850
Dibromochloromethane	<1.0		1.0	ug/L				04-MAY-15	R3183850
Dichlorodifluoromethane	<1.0		1.0	ug/L				04-MAY-15	R3183850
Dichloromethane	<2.0		2.0	ug/L	50			04-MAY-15	R3183850

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-26 OW-19S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183850
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183850
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183850
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183850
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183850
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183850
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183850
Surr: 1,4-Difluorobenzene	98.4		70-130	%			04-MAY-15	R3183850
Surr: 4-Bromofluorobenzene	89.1		70-130	%			04-MAY-15	R3183850
L1604943-27 OW-20S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	433		10	mg/L		30-500	30-APR-15	R3182629
Ammonia, Total (as N)	0.141		0.050	mg/L			01-MAY-15	R3184038
Chloride (Cl)	12.9		0.50	mg/L		250	30-APR-15	R3183036
Color, Apparent	131		1.0	C.U.		** 5	30-APR-15	R3182635
Conductivity	720		3.0	umhos/cm			29-APR-15	R3185269
Phosphate-P (ortho)	0.0068		0.0030	mg/L			30-APR-15	R3182911
Dissolved Metals in Water by ICPMS								
Dissolved Metals Filtration Location	FIELD			No Unit			30-APR-15	R3181955
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182741
Arsenic (As)-Dissolved	0.0019		0.0010	mg/L	0.025		30-APR-15	R3182741
Barium (Ba)-Dissolved	0.050		0.010	mg/L	1		30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Boron (B)-Dissolved	0.122		0.050	mg/L	5		30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		30-APR-15	R3182741
Calcium (Ca)-Dissolved	80.2		0.50	mg/L			30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05		30-APR-15	R3182741
Cobalt (Co)-Dissolved	0.00066		0.00050	mg/L			30-APR-15	R3182741
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L		1	30-APR-15	R3182741
Iron (Fe)-Dissolved	0.303		0.050	mg/L		** 0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		30-APR-15	R3182741

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits				Analyzed	Batch
L1604943-27 OW-20S										
Sampled By: BJL on 29-APR-15										
Matrix: WATER					STANDARDS		GUIDELINES			
General Chemistry Package 1-Groundwater										
Dissolved Metals in Water by ICPMS										
Magnesium (Mg)-Dissolved	39.7		0.50	mg/L					30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.209		0.0010	mg/L			**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	0.0020		0.0010	mg/L					30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L					30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L					30-APR-15	R3182741
Potassium (K)-Dissolved	3.2		1.0	mg/L					30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L		0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	5.4		1.0	mg/L					30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L					30-APR-15	R3182741
Sodium (Na)-Dissolved	41.2		0.50	mg/L	**	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.209		0.0010	mg/L					30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L					30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L					30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L					30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L					30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L		0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L					30-APR-15	R3182741
Zinc (Zn)-Dissolved	<0.0030		0.0030	mg/L				5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L					30-APR-15	R3182741
Fluoride (F)	0.119		0.020	mg/L		1.5			30-APR-15	R3183036
Hardness (as CaCO3)	364		10	mg/L			**	80-100	01-MAY-15	
Nitrate (as N)	0.268		0.020	mg/L		10			30-APR-15	R3183036
Nitrite (as N)	<0.010		0.010	mg/L		1			30-APR-15	R3183036
Sulfate (SO4)	23.3		0.30	mg/L				500	30-APR-15	R3183036
Total Dissolved Solids	411		20	mg/L				500	02-MAY-15	R3183469
Turbidity	37.0		0.10	NTU			**	5	30-APR-15	R3182127
pH	7.96		0.10	pH units				6.5-8.5	29-APR-15	R3182321
Individual Analytes										
Xylenes (Total)	<1.1		1.1	ug/L				300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L		100			04-MAY-15	
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L					04-MAY-15	R3183850
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L					04-MAY-15	R3183850
1,1,1-Trichloroethane	<0.50		0.50	ug/L					04-MAY-15	R3183850
1,1,2-Trichloroethane	<0.50		0.50	ug/L					04-MAY-15	R3183850
1,2-Dibromoethane	<0.50		0.50	ug/L					04-MAY-15	R3183850
1,1-Dichloroethane	<0.50		0.50	ug/L					04-MAY-15	R3183850
1,1-Dichloroethylene	<0.50		0.50	ug/L		14			04-MAY-15	R3183850
1,2-Dichlorobenzene	<0.50		0.50	ug/L		200			04-MAY-15	R3183850
1,2-Dichloroethane	<0.50		0.50	ug/L		5			04-MAY-15	R3183850
1,2-Dichloropropane	<0.50		0.50	ug/L					04-MAY-15	R3183850
1,3-Dichlorobenzene	<0.50		0.50	ug/L					04-MAY-15	R3183850
1,4-Dichlorobenzene	<0.50		0.50	ug/L		5			04-MAY-15	R3183850
2-Hexanone	<20		20	ug/L					04-MAY-15	R3183850
Acetone	<20		20	ug/L					04-MAY-15	R3183850

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-27 OW-20S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183850
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183850
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183850
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183850
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183850
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183850
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183850
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183850
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183850
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183850
Surr: 1,4-Difluorobenzene	97.4		70-130	%			04-MAY-15	R3183850
Surr: 4-Bromofluorobenzene	90.0		70-130	%			04-MAY-15	R3183850
L1604943-28 OW-20D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	566	DLA	20	mg/L		30-500	30-APR-15	R3182629
Ammonia, Total (as N)	5.37	DLA	0.25	mg/L			01-MAY-15	R3184038
Chloride (Cl)	32.0		0.50	mg/L		250	30-APR-15	R3183036
Color, Apparent	60.8		1.0	C.U.	**	5	30-APR-15	R3182635
Conductivity	1030		3.0	umhos/cm			29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182911
Dissolved Metals in Water by ICPMS								

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS		GUIDELINES	Analyzed	Batch
L1604943-28 OW-20D									
Sampled By: BJL on 29-APR-15									
Matrix: WATER									
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181955
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182741
Arsenic (As)-Dissolved	0.0019		0.0010	mg/L	0.025			30-APR-15	R3182741
Barium (Ba)-Dissolved	0.115		0.010	mg/L	1			30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Boron (B)-Dissolved	0.473		0.050	mg/L	5			30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182741
Calcium (Ca)-Dissolved	130		0.50	mg/L				30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	0.00401		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	0.0011		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	1.63		0.050	mg/L		**	0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	0.0015		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	75.3		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.726		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	0.0094		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	19.9		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	5.1		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	31.8		0.50	mg/L	** 20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.349		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	0.00041		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0150		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.050		0.020	mg/L	1.5			30-APR-15	R3183036
Hardness (as CaCO3)	634		10	mg/L		**	80-100	01-MAY-15	
Nitrate (as N)	0.302		0.020	mg/L	10			30-APR-15	R3183036
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183036
Sulfate (SO4)	105		0.30	mg/L			500	30-APR-15	R3183036
Total Dissolved Solids	823		20	mg/L		**	500	02-MAY-15	R3183469
Turbidity	17.3		0.10	NTU		**	5	30-APR-15	R3182127
pH	7.77		0.10	pH units			6.5-8.5	29-APR-15	R3182321
Individual Analytes									
Xylenes (Total)	<1.1		1.1	ug/L			300	04-MAY-15	

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-28 OW-20D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Total THMs	<2.0		2.0	ug/L	100		04-MAY-15	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,2-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,2-Dibromoethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1-Dichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1-Dichloroethylene	<0.50		0.50	ug/L	14		04-MAY-15	R3183850
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200		04-MAY-15	R3183850
1,2-Dichloroethane	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
1,2-Dichloropropane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,3-Dichlorobenzene	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
2-Hexanone	<20		20	ug/L			04-MAY-15	R3183850
Acetone	<20		20	ug/L			04-MAY-15	R3183850
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183850
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183850
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183850
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183850
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183850
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183850
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183850
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183850
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183850
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183850
Surr: 1,4-Difluorobenzene	97.4		70-130	%			04-MAY-15	R3183850
Surr: 4-Bromofluorobenzene	89.1		70-130	%			04-MAY-15	R3183850

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1604943-29 OW-21S									
Sampled By: BJL on 29-APR-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	434		10	mg/L			30-500	30-APR-15	R3182629
Ammonia, Total (as N)	<0.050		0.050	mg/L				01-MAY-15	R3184038
Chloride (Cl)	4.28		0.50	mg/L			250	30-APR-15	R3183036
Color, Apparent	124		1.0	C.U.		**	5	30-APR-15	R3182635
Conductivity	713		3.0	umhos/cm				29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				30-APR-15	R3182911
Dissolved Metals in Water by ICPMS									
Dissolved Metals Filtration Location	FIELD			No Unit				30-APR-15	R3181955
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			30-APR-15	R3182741
Barium (Ba)-Dissolved	0.029		0.010	mg/L	1			30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Boron (B)-Dissolved	<0.050		0.050	mg/L	5			01-MAY-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			30-APR-15	R3182741
Calcium (Ca)-Dissolved	98.1		0.50	mg/L				30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				30-APR-15	R3182741
Copper (Cu)-Dissolved	0.0012		0.0010	mg/L			1	30-APR-15	R3182741
Iron (Fe)-Dissolved	<0.050		0.050	mg/L			0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			30-APR-15	R3182741
Magnesium (Mg)-Dissolved	30.6		0.50	mg/L				30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.0639		0.0010	mg/L		**	0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				30-APR-15	R3182741
Potassium (K)-Dissolved	<1.0		1.0	mg/L				30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			30-APR-15	R3182741
Silicon (Si)-Dissolved	3.6		1.0	mg/L				30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				30-APR-15	R3182741
Sodium (Na)-Dissolved	3.25		0.50	mg/L	20		200	30-APR-15	R3182741
Strontium (Sr)-Dissolved	0.0945		0.0010	mg/L				30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0043		0.0030	mg/L			5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				30-APR-15	R3182741
Fluoride (F)	0.042		0.020	mg/L	1.5			30-APR-15	R3183036
Hardness (as CaCO3)	371		10	mg/L		**	80-100	04-MAY-15	
Nitrate (as N)	0.758		0.020	mg/L	10			30-APR-15	R3183036
Nitrite (as N)	<0.010		0.010	mg/L	1			30-APR-15	R3183036

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS	GUIDELINES	Analyzed	Batch
L1604943-29 OW-21S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER								
General Chemistry Package 1-Groundwater								
Sulfate (SO4)	9.10		0.30	mg/L		500	30-APR-15	R3183036
Total Dissolved Solids	372		20	mg/L		500	02-MAY-15	R3183469
Turbidity	23.6		0.10	NTU		** 5	30-APR-15	R3182127
pH	7.70		0.10	pH units		6.5-8.5	29-APR-15	R3182321
Individual Analytes								
Xylenes (Total)	<1.1		1.1	ug/L		300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100		04-MAY-15	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,2-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,2-Dibromoethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1-Dichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1-Dichloroethylene	<0.50		0.50	ug/L	14		04-MAY-15	R3183850
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200		04-MAY-15	R3183850
1,2-Dichloroethane	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
1,2-Dichloropropane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,3-Dichlorobenzene	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
2-Hexanone	<20		20	ug/L			04-MAY-15	R3183850
Acetone	<20		20	ug/L			04-MAY-15	R3183850
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183850
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183850
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183850
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183850
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183850
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183850
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183850
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183850
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183850

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-29 OW-21S								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183850
Surr: 1,4-Difluorobenzene	97.6		70-130	%			04-MAY-15	R3183850
Surr: 4-Bromofluorobenzene	88.6		70-130	%			04-MAY-15	R3183850
L1604943-30 OW-21D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	364		10	mg/L		30-500	30-APR-15	R3183769
Ammonia, Total (as N)	<0.050		0.050	mg/L			01-MAY-15	R3184038
Chloride (Cl)	10.9		0.50	mg/L		250	30-APR-15	R3183036
Color, Apparent	22.6		1.0	C.U.		** 5	30-APR-15	R3182635
Conductivity	695		3.0	umhos/cm			29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182911
Dissolved Metals in Water by ICPMS								
Dissolved Metals Filtration Location	FIELD			No Unit			30-APR-15	R3181955
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	30-APR-15	R3182741
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182741
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		30-APR-15	R3182741
Barium (Ba)-Dissolved	0.026		0.010	mg/L	1		30-APR-15	R3182741
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Boron (B)-Dissolved	<0.050		0.050	mg/L	5		30-APR-15	R3182741
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		30-APR-15	R3182741
Calcium (Ca)-Dissolved	84.3		0.50	mg/L			30-APR-15	R3182741
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05		30-APR-15	R3182741
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L			30-APR-15	R3182741
Copper (Cu)-Dissolved	0.0027		0.0010	mg/L		1	30-APR-15	R3182741
Iron (Fe)-Dissolved	<0.050		0.050	mg/L		0.3	30-APR-15	R3182741
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		30-APR-15	R3182741
Magnesium (Mg)-Dissolved	32.3		0.50	mg/L			30-APR-15	R3182741
Manganese (Mn)-Dissolved	0.0599		0.0010	mg/L		** 0.05	30-APR-15	R3182741
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Nickel (Ni)-Dissolved	0.0023		0.0020	mg/L			30-APR-15	R3182741
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			30-APR-15	R3182741
Potassium (K)-Dissolved	1.5		1.0	mg/L			30-APR-15	R3182741
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		30-APR-15	R3182741
Silicon (Si)-Dissolved	2.7		1.0	mg/L			30-APR-15	R3182741
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			30-APR-15	R3182741
Sodium (Na)-Dissolved	4.47		0.50	mg/L	20	200	30-APR-15	R3182741

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS	GUIDELINES	Analyzed	Batch
L1604943-30 OW-21D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER								
General Chemistry Package 1-Groundwater								
Dissolved Metals in Water by ICPMS								
Strontium (Sr)-Dissolved	0.0875		0.0010	mg/L			30-APR-15	R3182741
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L			30-APR-15	R3182741
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L			30-APR-15	R3182741
Tungsten (W)-Dissolved	<0.010		0.010	mg/L			30-APR-15	R3182741
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02		30-APR-15	R3182741
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L			30-APR-15	R3182741
Zinc (Zn)-Dissolved	0.0249		0.0030	mg/L		5	30-APR-15	R3182741
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L			30-APR-15	R3182741
Fluoride (F)	0.040		0.020	mg/L	1.5		30-APR-15	R3183036
Hardness (as CaCO3)	343		10	mg/L		** 80-100	01-MAY-15	
Nitrate (as N)	3.21		0.020	mg/L	10		30-APR-15	R3183036
Nitrite (as N)	<0.010		0.010	mg/L	1		30-APR-15	R3183036
Sulfate (SO4)	22.6		0.30	mg/L		500	30-APR-15	R3183036
Total Dissolved Solids	378		20	mg/L		500	02-MAY-15	R3183469
Turbidity	4.70		0.10	NTU		5	30-APR-15	R3182127
pH	7.86		0.10	pH units		6.5-8.5	29-APR-15	R3182321
Individual Analytes								
Xylenes (Total)	<1.1		1.1	ug/L		300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100		04-MAY-15	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,2-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,2-Dibromoethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1-Dichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1-Dichloroethylene	<0.50		0.50	ug/L	14		04-MAY-15	R3183850
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200		04-MAY-15	R3183850
1,2-Dichloroethane	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
1,2-Dichloropropane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,3-Dichlorobenzene	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
2-Hexanone	<20		20	ug/L			04-MAY-15	R3183850
Acetone	<20		20	ug/L			04-MAY-15	R3183850
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183850
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183850
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-30 OW-21D								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183850
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183850
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183850
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183850
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183850
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183850
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183850
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183850
Surr: 1,4-Difluorobenzene	97.6		70-130	%			04-MAY-15	R3183850
Surr: 4-Bromofluorobenzene	89.3		70-130	%			04-MAY-15	R3183850
L1604943-31 SW-3								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1								
Alkalinity, Total (as CaCO3)	336		10	mg/L		30-500	30-APR-15	R3183769
Ammonia, Total (as N)	2.87	DLA	0.10	mg/L			01-MAY-15	R3184038
Chloride (Cl)	18.1		0.50	mg/L		250	30-APR-15	R3183036
Color, Apparent	14.2		1.0	C.U.		** 5	30-APR-15	R3182635
Conductivity	675		3.0	umhos/cm			29-APR-15	R3185269
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			30-APR-15	R3182911
Fluoride (F)	0.052		0.020	mg/L	1.5		30-APR-15	R3183036
Hardness (as CaCO3)	321		10	mg/L		** 80-100	01-MAY-15	
Nitrate (as N)	0.576		0.020	mg/L	10		30-APR-15	R3183036
Nitrite (as N)	0.015		0.010	mg/L	1		30-APR-15	R3183036
Sulfate (SO4)	23.8		0.30	mg/L		500	30-APR-15	R3183036
Total Dissolved Solids	360		20	mg/L		500	02-MAY-15	R3183469
Total Metals in Water by ICPMS								
Aluminum (Al)-Total	0.042		0.010	mg/L		0.1	30-APR-15	R3182689
Antimony (Sb)-Total	<0.0050		0.0050	mg/L	0.006		30-APR-15	R3182689
Arsenic (As)-Total	<0.0010		0.0010	mg/L	0.025		30-APR-15	R3182689
Barium (Ba)-Total	0.052		0.010	mg/L	1		30-APR-15	R3182689

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-31 SW-3								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1								
Total Metals in Water by ICPMS								
Beryllium (Be)-Total	<0.0010		0.0010	mg/L			30-APR-15	R3182689
Bismuth (Bi)-Total	<0.0010		0.0010	mg/L			30-APR-15	R3182689
Boron (B)-Total	0.159		0.050	mg/L	5		30-APR-15	R3182689
Cadmium (Cd)-Total	<0.000090		0.000090	mg/L	0.005		30-APR-15	R3182689
Calcium (Ca)-Total	79.4		0.50	mg/L			30-APR-15	R3182689
Chromium (Cr)-Total	<0.00050		0.00050	mg/L	0.05		30-APR-15	R3182689
Cobalt (Co)-Total	<0.00050		0.00050	mg/L			30-APR-15	R3182689
Copper (Cu)-Total	<0.0010		0.0010	mg/L		1	30-APR-15	R3182689
Iron (Fe)-Total	0.232		0.050	mg/L		0.3	30-APR-15	R3182689
Lead (Pb)-Total	<0.0010		0.0010	mg/L	0.01		30-APR-15	R3182689
Magnesium (Mg)-Total	29.7		0.50	mg/L			30-APR-15	R3182689
Manganese (Mn)-Total	0.0287		0.0010	mg/L		0.05	30-APR-15	R3182689
Molybdenum (Mo)-Total	<0.0010		0.0010	mg/L			30-APR-15	R3182689
Nickel (Ni)-Total	<0.0020		0.0020	mg/L			30-APR-15	R3182689
Phosphorus (P)-Total	<0.050		0.050	mg/L			30-APR-15	R3182689
Potassium (K)-Total	8.1		1.0	mg/L			30-APR-15	R3182689
Selenium (Se)-Total	<0.00040		0.00040	mg/L	0.01		30-APR-15	R3182689
Silicon (Si)-Total	1.9		1.0	mg/L			30-APR-15	R3182689
Silver (Ag)-Total	<0.00010		0.00010	mg/L			30-APR-15	R3182689
Sodium (Na)-Total	11.3		0.50	mg/L	20	200	30-APR-15	R3182689
Strontium (Sr)-Total	0.173		0.0010	mg/L			30-APR-15	R3182689
Thallium (Tl)-Total	<0.00030		0.00030	mg/L			30-APR-15	R3182689
Tin (Sn)-Total	<0.0010		0.0010	mg/L			30-APR-15	R3182689
Titanium (Ti)-Total	<0.0020		0.0020	mg/L			30-APR-15	R3182689
Tungsten (W)-Total	<0.010		0.010	mg/L			30-APR-15	R3182689
Uranium (U)-Total	<0.0050		0.0050	mg/L	0.02		30-APR-15	R3182689
Vanadium (V)-Total	<0.0010		0.0010	mg/L			30-APR-15	R3182689
Zinc (Zn)-Total	<0.0030		0.0030	mg/L		5	30-APR-15	R3182689
Zirconium (Zr)-Total	<0.0040		0.0040	mg/L			30-APR-15	R3182689
Turbidity	1.70		0.10	NTU		5	30-APR-15	R3182127
pH	8.10		0.10	pH units		6.5-8.5	29-APR-15	R3182321
Individual Analytes								
Xylenes (Total)	<1.1		1.1	ug/L		300	04-MAY-15	
Total THMs	<2.0		2.0	ug/L	100		04-MAY-15	
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,1-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1,2-Trichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,2-Dibromoethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1-Dichloroethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,1-Dichloroethylene	<0.50		0.50	ug/L	14		04-MAY-15	R3183850
1,2-Dichlorobenzene	<0.50		0.50	ug/L	200		04-MAY-15	R3183850
1,2-Dichloroethane	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
1,2-Dichloropropane	<0.50		0.50	ug/L			04-MAY-15	R3183850
1,3-Dichlorobenzene	<0.50		0.50	ug/L			04-MAY-15	R3183850

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1604943-31 SW-3								
Sampled By: BJL on 29-APR-15								
Matrix: WATER					STANDARDS	GUIDELINES		
Individual Analytes								
Volatile Organic Compounds								
1,4-Dichlorobenzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
2-Hexanone	<20		20	ug/L			04-MAY-15	R3183850
Acetone	<20		20	ug/L			04-MAY-15	R3183850
Benzene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Bromodichloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromoform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Bromomethane	<0.50		0.50	ug/L			04-MAY-15	R3183850
Carbon Disulfide	<1.0		1.0	ug/L			04-MAY-15	R3183850
Carbon tetrachloride	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Chlorobenzene	<0.50		0.50	ug/L	80		04-MAY-15	R3183850
Chloroethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloroform	<1.0		1.0	ug/L			04-MAY-15	R3183850
Chloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Dibromochloromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichlorodifluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Dichloromethane	<2.0		2.0	ug/L	50		04-MAY-15	R3183850
Ethylbenzene	<0.50		0.50	ug/L		2.4	04-MAY-15	R3183850
m+p-Xylenes	<1.0		1.0	ug/L			04-MAY-15	R3183850
Methyl Ethyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
Methyl Isobutyl Ketone	<20		20	ug/L			04-MAY-15	R3183850
n-Hexane	<0.50		0.50	ug/L			04-MAY-15	R3183850
MTBE	<0.50		0.50	ug/L			04-MAY-15	R3183850
o-Xylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Styrene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Tetrachloroethylene	<0.50		0.50	ug/L	30		04-MAY-15	R3183850
Toluene	<0.50		0.50	ug/L		24	04-MAY-15	R3183850
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			04-MAY-15	R3183850
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			04-MAY-15	R3183850
Trichloroethylene	<0.50		0.50	ug/L	5		04-MAY-15	R3183850
Trichlorofluoromethane	<1.0		1.0	ug/L			04-MAY-15	R3183850
Vinyl chloride	<0.50		0.50	ug/L	2		04-MAY-15	R3183850
Surr: 1,4-Difluorobenzene	97.2		70-130	%			04-MAY-15	R3183850
Surr: 4-Bromofluorobenzene	89.1		70-130	%			04-MAY-15	R3183850

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Parameter Qualifier key listed:

Qualifier	Description
DLA	Detection Limit adjusted for required dilution

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
ALK-WT	Water	Alkalinity, Total (as CaCO3)		EPA 310.2
CL-IC-WT	Water	Chloride by IC		EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

COLOUR-WT	Water	Colour		APHA 2120

Apparent colour is determined by analysis of the decanted sample using the platinum-cobalt colourimetric method.

EC-WT	Water	Conductivity		APHA 2510 B

Water samples can be measured directly by immersing the conductivity cell into the sample.

ETL-HARDNESS-CALC-WT	Water	Hardness (as CaCO3)		APHA 2340 B
F-IC-N-WT	Water	Fluoride in Water by IC		EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

MET-D-MS-WT	Water	Dissolved Metals in Water by ICPMS		EPA 200.8

The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-T-MS-WT	Water	Total Metals in Water by ICPMS		EPA 200.8

This analysis involves preliminary sample treatment by hotblock acid digestion (APHA 3030E). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

NH3-WT	Water	Ammonia, Total as N		EPA 350.1

Sample is measured colorimetrically. When sample is turbid a distillation step is required, sample is distilled into a solution of boric acid and measured colorimetrically.

NO2-IC-WT	Water	Nitrite in Water by IC		EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-WT	Water	Nitrate in Water by IC		EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

PH-WT	Water	pH		APHA 4500 H-Electrode

Water samples are analyzed directly by a calibrated pH meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

PO4-DO-COL-WT	Water	Diss. Orthophosphate in Water by Colour		APHA 4500-P PHOSPHORUS

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab or field filtered through a 0.45 micron membrane filter.

SO4-IC-N-WT	Water	Sulfate in Water by IC		EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

SOLIDS-TDS-WT	Water	Total Dissolved Solids		APHA 2540C

A well-mixed sample is filtered though glass fibres filter. A known volume of the filtrate is evaporated and dried at 105–5°C overnight and then 180–10°C for 1hr.

THM-SUM-PPB-CALC-WT	Water	Total Trihalomethanes (THMs)		CALCULATION

Total Trihalomethanes (THMs) represents the sum of bromodichloromethane, bromoform, chlorodibromomethane and chloroform. For the purpose of calculation, results less than the detection limit (DL) are treated as zero.

TURBIDITY-WT	Water	Turbidity		APHA 2130 B

Sample result is based on a comparison of the intensity of the light scattered by the sample under defined conditions with the intensity of light scattered by a standard reference suspension under the same conditions. Sample readings are obtained from a Nephelometer.

VOC-ROU-HS-WT	Water	Volatile Organic Compounds		SW846 8260

Aqueous samples are analyzed by headspace-GC/MS.

Reference Information

BG-530

XYLENES-SUM-CALC-WT	Water	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

14-458113

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of criteria limits is provided as is without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information.

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ALK-WT	**Water**							
Batch R3182629								
WG2079371-3 CRM		**WT-ALK-CRM**						
Alkalinity, Total (as CaCO3)			110.1		%		80-120	30-APR-15
WG2079371-2 CVS								
Alkalinity, Total (as CaCO3)			102.5		%		85-115	30-APR-15
WG2079371-4 DUP		**L1605011-4**						
Alkalinity, Total (as CaCO3)		39	39		mg/L	0.0	20	30-APR-15
WG2079371-1 MB								
Alkalinity, Total (as CaCO3)			<10		mg/L		10	30-APR-15
Batch R3182631								
WG2079372-3 CRM		**WT-ALK-CRM**						
Alkalinity, Total (as CaCO3)			105.7		%		80-120	30-APR-15
WG2079372-2 CVS								
Alkalinity, Total (as CaCO3)			100.7		%		85-115	30-APR-15
WG2079372-4 DUP		**L1604943-12**						
Alkalinity, Total (as CaCO3)		442	463		mg/L	4.8	20	30-APR-15
WG2079372-1 MB								
Alkalinity, Total (as CaCO3)			<10		mg/L		10	30-APR-15
Batch R3183769								
WG2080129-3 CRM		**WT-ALK-CRM**						
Alkalinity, Total (as CaCO3)			102.9		%		80-120	01-MAY-15
WG2080129-2 CVS								
Alkalinity, Total (as CaCO3)			98.1		%		85-115	01-MAY-15
WG2080129-4 DUP		**L1604360-1**						
Alkalinity, Total (as CaCO3)		124	124		mg/L	0.2	20	01-MAY-15
WG2080129-1 MB								
Alkalinity, Total (as CaCO3)			<10		mg/L		10	01-MAY-15
CL-IC-WT	**Water**							
Batch R3183030								
WG2079630-4 DUP		**L1604943-2**						
Chloride (Cl)		1.57	1.57		mg/L	0.3	25	30-APR-15
WG2079630-2 LCS								
Chloride (Cl)			101.9		%		70-130	30-APR-15
WG2079630-1 MB								
Chloride (Cl)			<0.50		mg/L		0.5	30-APR-15
WG2079630-5 MS		**L1604943-2**						
Chloride (Cl)			99.3		%		70-130	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-IC-WT	**Water**							
Batch R3183036								
WG2079635-4 DUP		**L1604943-20**						
Chloride (Cl)		<0.50	<0.50	RPD-NA	mg/L	N/A	25	30-APR-15
WG2079635-2 LCS								
Chloride (Cl)			102.5		%		70-130	30-APR-15
WG2079635-1 MB								
Chloride (Cl)			<0.50		mg/L		0.5	30-APR-15
WG2079635-5 MS		**L1604943-20**						
Chloride (Cl)			101.2		%		70-130	30-APR-15
COLOUR-WT	**Water**							
Batch R3182634								
WG2079367-3 CRM		**WT-COLOUR-CRM**						
Color, Apparent			97.2		%		80-120	30-APR-15
WG2079367-2 CVS								
Color, Apparent			101.6		%		85-115	30-APR-15
WG2079367-4 DUP		**L1604159-1**						
Color, Apparent		2.1	2.0		C.U.	4.0	20	30-APR-15
WG2079367-1 MB								
Color, Apparent			<1.0		C.U.		1	30-APR-15
Batch R3182635								
WG2079368-3 CRM		**WT-COLOUR-CRM**						
Color, Apparent			94.6		%		80-120	30-APR-15
WG2079368-2 CVS								
Color, Apparent			101.8		%		85-115	30-APR-15
WG2079368-4 DUP		**L1604943-12**						
Color, Apparent		74.5	83.0		C.U.	11	20	30-APR-15
WG2079368-1 MB								
Color, Apparent			<1.0		C.U.		1	30-APR-15
EC-WT	**Water**							
Batch R3182336								
WG2079143-4 DUP		**WG2079143-3**						
Conductivity		903	901		umhos/cm	0.2	10	29-APR-15
WG2079143-2 LCS								
Conductivity			99.1		%		90-110	29-APR-15
WG2079143-1 MB								
Conductivity			<3.0		umhos/cm		3	29-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-WT	**Water**							
Batch R3185269								
WG2079178-3 DUP		**L1604943-18**						
Conductivity		491	490		umhos/cm	0.2	10	29-APR-15
WG2079178-2 LCS								
Conductivity			99.1		%		90-110	29-APR-15
WG2079178-1 MB								
Conductivity			<3.0		umhos/cm		3	29-APR-15
F-IC-N-WT	**Water**							
Batch R3183030								
WG2079630-4 DUP		**L1604943-2**						
Fluoride (F)		0.028	0.027		mg/L	3.7	20	30-APR-15
WG2079630-2 LCS								
Fluoride (F)			100.1		%		90-110	30-APR-15
WG2079630-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	30-APR-15
WG2079630-5 MS		**L1604943-2**						
Fluoride (F)			96.3		%		75-125	30-APR-15
Batch R3183036								
WG2079635-4 DUP		**L1604943-20**						
Fluoride (F)		0.059	0.060		mg/L	1.8	20	30-APR-15
WG2079635-2 LCS								
Fluoride (F)			100.8		%		90-110	30-APR-15
WG2079635-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	30-APR-15
WG2079635-5 MS		**L1604943-20**						
Fluoride (F)			97.9		%		75-125	30-APR-15
MET-D-MS-WT	**Water**							
Batch R3182741								
WG2079446-1 CVS								
Aluminum (Al)-Dissolved			104.2		%		80-120	30-APR-15
Antimony (Sb)-Dissolved			97.7		%		80-120	30-APR-15
Arsenic (As)-Dissolved			98.5		%		80-120	30-APR-15
Barium (Ba)-Dissolved			99.7		%		80-120	30-APR-15
Beryllium (Be)-Dissolved			98.2		%		80-120	30-APR-15
Bismuth (Bi)-Dissolved			102.9		%		80-120	30-APR-15
Boron (B)-Dissolved			102.1		%		80-120	30-APR-15
Cadmium (Cd)-Dissolved			98.7		%		80-120	30-APR-15
Calcium (Ca)-Dissolved			94.8		%		80-120	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch	**R3182741**							
WG2079446-1	**CVS**							
Chromium (Cr)-Dissolved			98.3		%		80-120	30-APR-15
Cobalt (Co)-Dissolved			99.3		%		80-120	30-APR-15
Copper (Cu)-Dissolved			99.0		%		80-120	30-APR-15
Iron (Fe)-Dissolved			97.4		%		80-120	30-APR-15
Lead (Pb)-Dissolved			101.9		%		80-120	30-APR-15
Magnesium (Mg)-Dissolved			99.2		%		80-120	30-APR-15
Manganese (Mn)-Dissolved			98.2		%		80-120	30-APR-15
Molybdenum (Mo)-Dissolved			94.7		%		80-120	30-APR-15
Nickel (Ni)-Dissolved			98.4		%		80-120	30-APR-15
Phosphorus (P)-Dissolved			97.4		%		80-120	30-APR-15
Potassium (K)-Dissolved			95.6		%		80-120	30-APR-15
Selenium (Se)-Dissolved			95.7		%		80-120	30-APR-15
Silicon (Si)-Dissolved			97.4		%		80-120	30-APR-15
Silver (Ag)-Dissolved			107.3		%		80-120	30-APR-15
Sodium (Na)-Dissolved			99.6		%		80-120	30-APR-15
Strontium (Sr)-Dissolved			99.0		%		80-120	30-APR-15
Thallium (Tl)-Dissolved			101.9		%		80-120	30-APR-15
Tin (Sn)-Dissolved			99.3		%		80-120	30-APR-15
Titanium (Ti)-Dissolved			97.8		%		80-120	30-APR-15
Tungsten (W)-Dissolved			101.2		%		80-120	30-APR-15
Uranium (U)-Dissolved			102.7		%		80-120	30-APR-15
Vanadium (V)-Dissolved			99.1		%		80-120	30-APR-15
Zinc (Zn)-Dissolved			95.6		%		80-120	30-APR-15
Zirconium (Zr)-Dissolved			98.3		%		80-120	30-APR-15
WG2079446-3	**CVS**							
Aluminum (Al)-Dissolved			98.1		%		80-120	01-MAY-15
Antimony (Sb)-Dissolved			97.6		%		80-120	01-MAY-15
Arsenic (As)-Dissolved			96.4		%		80-120	01-MAY-15
Barium (Ba)-Dissolved			95.9		%		80-120	01-MAY-15
Beryllium (Be)-Dissolved			99.5		%		80-120	01-MAY-15
Bismuth (Bi)-Dissolved			99.6		%		80-120	01-MAY-15
Boron (B)-Dissolved			101.9		%		80-120	01-MAY-15
Cadmium (Cd)-Dissolved			98.2		%		80-120	01-MAY-15
Calcium (Ca)-Dissolved			94.3		%		80-120	01-MAY-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch	**R3182741**							
WG2079446-3	**CVS**							
Chromium (Cr)-Dissolved			96.7		%		80-120	01-MAY-15
Cobalt (Co)-Dissolved			97.6		%		80-120	01-MAY-15
Copper (Cu)-Dissolved			97.8		%		80-120	01-MAY-15
Iron (Fe)-Dissolved			96.9		%		80-120	01-MAY-15
Lead (Pb)-Dissolved			99.6		%		80-120	01-MAY-15
Magnesium (Mg)-Dissolved			97.3		%		80-120	01-MAY-15
Manganese (Mn)-Dissolved			97.6		%		80-120	01-MAY-15
Molybdenum (Mo)-Dissolved			97.9		%		80-120	01-MAY-15
Nickel (Ni)-Dissolved			97.6		%		80-120	01-MAY-15
Phosphorus (P)-Dissolved			96.6		%		80-120	01-MAY-15
Potassium (K)-Dissolved			95.4		%		80-120	01-MAY-15
Selenium (Se)-Dissolved			96.9		%		80-120	01-MAY-15
Silicon (Si)-Dissolved			100.8		%		80-120	01-MAY-15
Silver (Ag)-Dissolved			98.7		%		80-120	01-MAY-15
Sodium (Na)-Dissolved			97.1		%		80-120	01-MAY-15
Strontium (Sr)-Dissolved			98.8		%		80-120	01-MAY-15
Thallium (Tl)-Dissolved			100.2		%		80-120	01-MAY-15
Tin (Sn)-Dissolved			97.4		%		80-120	01-MAY-15
Titanium (Ti)-Dissolved			97.7		%		80-120	01-MAY-15
Tungsten (W)-Dissolved			98.6		%		80-120	01-MAY-15
Uranium (U)-Dissolved			98.5		%		80-120	01-MAY-15
Vanadium (V)-Dissolved			97.6		%		80-120	01-MAY-15
Zinc (Zn)-Dissolved			92.9		%		80-120	01-MAY-15
Zirconium (Zr)-Dissolved			99.9		%		80-120	01-MAY-15
WG2079351-4	**DUP**	**WG2079351-3**						
Aluminum (Al)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	30-APR-15
Antimony (Sb)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Arsenic (As)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Barium (Ba)-Dissolved		0.0135	0.0132		mg/L	2.9	20	30-APR-15
Beryllium (Be)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Bismuth (Bi)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Boron (B)-Dissolved		0.018	0.018		mg/L	1.4	20	30-APR-15
Cadmium (Cd)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch R3182741								
WG2079351-4 DUP		**WG2079351-3**						
Calcium (Ca)-Dissolved		82.0	79.5		mg/L	3.1	20	30-APR-15
Chromium (Cr)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Cobalt (Co)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Copper (Cu)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Iron (Fe)-Dissolved		<0.050	<0.050	RPD-NA	mg/L	N/A	20	30-APR-15
Lead (Pb)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Magnesium (Mg)-Dissolved		25.3	24.5		mg/L	2.9	20	30-APR-15
Manganese (Mn)-Dissolved		0.0163	0.0156		mg/L	4.6	20	30-APR-15
Molybdenum (Mo)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Nickel (Ni)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Phosphorus (P)-Dissolved		<0.050	<0.050	RPD-NA	mg/L	N/A	20	30-APR-15
Potassium (K)-Dissolved		2.0	1.9		mg/L	3.0	20	30-APR-15
Selenium (Se)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	30-APR-15
Silicon (Si)-Dissolved		2.2	2.2		mg/L	2.4	20	30-APR-15
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	30-APR-15
Sodium (Na)-Dissolved		2.75	2.52		mg/L	8.5	20	30-APR-15
Strontium (Sr)-Dissolved		0.0936	0.0975		mg/L	4.0	20	30-APR-15
Thallium (Tl)-Dissolved		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	30-APR-15
Tin (Sn)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Titanium (Ti)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	30-APR-15
Tungsten (W)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	30-APR-15
Uranium (U)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Vanadium (V)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Zinc (Zn)-Dissolved		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	01-MAY-15
Zirconium (Zr)-Dissolved		<0.0040	<0.0040	RPD-NA	mg/L	N/A	20	30-APR-15
WG2079353-4 DUP		**WG2079353-3**						
Aluminum (Al)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	30-APR-15
Antimony (Sb)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Arsenic (As)-Dissolved		0.0023	0.0023		mg/L	1.7	20	30-APR-15
Barium (Ba)-Dissolved		0.0232	0.0231		mg/L	0.2	20	30-APR-15
Beryllium (Be)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Bismuth (Bi)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Boron (B)-Dissolved		0.059	0.062		mg/L	5.8	20	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch R3182741								
WG2079353-4 DUP		**WG2079353-3**						
Cadmium (Cd)-Dissolved		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	30-APR-15
Calcium (Ca)-Dissolved		42.0	41.0		mg/L	2.6	20	30-APR-15
Chromium (Cr)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Cobalt (Co)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Copper (Cu)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Iron (Fe)-Dissolved		<0.050	<0.050	RPD-NA	mg/L	N/A	20	30-APR-15
Lead (Pb)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Magnesium (Mg)-Dissolved		42.1	40.3		mg/L	4.4	20	30-APR-15
Manganese (Mn)-Dissolved		0.0252	0.0247		mg/L	2.1	20	30-APR-15
Molybdenum (Mo)-Dissolved		0.00360	0.00379		mg/L	5.0	20	30-APR-15
Nickel (Ni)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Phosphorus (P)-Dissolved		<0.050	<0.050	RPD-NA	mg/L	N/A	20	30-APR-15
Potassium (K)-Dissolved		1.8	1.8		mg/L	1.4	20	30-APR-15
Selenium (Se)-Dissolved		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	30-APR-15
Silicon (Si)-Dissolved		6.2	6.3		mg/L	0.8	20	30-APR-15
Silver (Ag)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	30-APR-15
Sodium (Na)-Dissolved		13.9	14.3		mg/L	3.3	20	30-APR-15
Strontium (Sr)-Dissolved		0.175	0.188		mg/L	6.8	20	30-APR-15
Thallium (Tl)-Dissolved		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	30-APR-15
Tin (Sn)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Titanium (Ti)-Dissolved		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	30-APR-15
Tungsten (W)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	30-APR-15
Uranium (U)-Dissolved		0.0020	0.0020		mg/L	0.1	20	30-APR-15
Vanadium (V)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Zinc (Zn)-Dissolved		0.0038	0.0034		mg/L	11	20	30-APR-15
Zirconium (Zr)-Dissolved		<0.0040	<0.0040	RPD-NA	mg/L	N/A	20	30-APR-15
WG2079351-2 LCS								
Aluminum (Al)-Dissolved			100.1		%		80-120	30-APR-15
Antimony (Sb)-Dissolved			95.4		%		80-120	30-APR-15
Arsenic (As)-Dissolved			97.1		%		80-120	30-APR-15
Barium (Ba)-Dissolved			94.0		%		80-120	30-APR-15
Beryllium (Be)-Dissolved			97.9		%		80-120	30-APR-15
Bismuth (Bi)-Dissolved			97.0		%		80-120	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch R3182741								
WG2079351-2 LCS								
Boron (B)-Dissolved			96.6		%		80-120	30-APR-15
Cadmium (Cd)-Dissolved			93.1		%		80-120	30-APR-15
Calcium (Ca)-Dissolved			95.1		%		80-120	30-APR-15
Chromium (Cr)-Dissolved			96.3		%		80-120	30-APR-15
Cobalt (Co)-Dissolved			97.4		%		80-120	30-APR-15
Copper (Cu)-Dissolved			97.7		%		80-120	30-APR-15
Iron (Fe)-Dissolved			94.8		%		80-120	30-APR-15
Lead (Pb)-Dissolved			92.9		%		80-120	30-APR-15
Magnesium (Mg)-Dissolved			96.2		%		80-120	30-APR-15
Manganese (Mn)-Dissolved			97.8		%		80-120	30-APR-15
Molybdenum (Mo)-Dissolved			96.9		%		80-120	30-APR-15
Nickel (Ni)-Dissolved			97.8		%		80-120	30-APR-15
Phosphorus (P)-Dissolved			100.6		%		80-120	30-APR-15
Potassium (K)-Dissolved			94.8		%		80-120	30-APR-15
Selenium (Se)-Dissolved			93.7		%		80-120	30-APR-15
Silicon (Si)-Dissolved			97.3		%		80-120	30-APR-15
Silver (Ag)-Dissolved			100.1		%		80-120	30-APR-15
Sodium (Na)-Dissolved			97.8		%		80-120	30-APR-15
Strontium (Sr)-Dissolved			97.0		%		80-120	30-APR-15
Thallium (Tl)-Dissolved			92.1		%		80-120	30-APR-15
Tin (Sn)-Dissolved			95.9		%		80-120	30-APR-15
Titanium (Ti)-Dissolved			96.9		%		80-120	30-APR-15
Tungsten (W)-Dissolved			94.8		%		80-120	30-APR-15
Uranium (U)-Dissolved			92.5		%		80-120	30-APR-15
Vanadium (V)-Dissolved			98.9		%		80-120	30-APR-15
Zinc (Zn)-Dissolved			97.0		%		80-120	30-APR-15
Zirconium (Zr)-Dissolved			92.4		%		80-120	30-APR-15
WG2079353-2 LCS								
Aluminum (Al)-Dissolved			102.3		%		80-120	30-APR-15
Antimony (Sb)-Dissolved			95.0		%		80-120	30-APR-15
Arsenic (As)-Dissolved			94.9		%		80-120	30-APR-15
Barium (Ba)-Dissolved			92.5		%		80-120	30-APR-15
Beryllium (Be)-Dissolved			94.7		%		80-120	30-APR-15
Bismuth (Bi)-Dissolved			94.1		%		80-120	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch	**R3182741**							
WG2079353-2	**LCS**							
Boron (B)-Dissolved			94.1		%		80-120	30-APR-15
Cadmium (Cd)-Dissolved			89.8		%		80-120	30-APR-15
Calcium (Ca)-Dissolved			92.1		%		80-120	30-APR-15
Chromium (Cr)-Dissolved			92.1		%		80-120	30-APR-15
Cobalt (Co)-Dissolved			93.0		%		80-120	30-APR-15
Copper (Cu)-Dissolved			92.5		%		80-120	30-APR-15
Iron (Fe)-Dissolved			92.3		%		80-120	30-APR-15
Lead (Pb)-Dissolved			94.5		%		80-120	30-APR-15
Magnesium (Mg)-Dissolved			93.4		%		80-120	30-APR-15
Manganese (Mn)-Dissolved			93.9		%		80-120	30-APR-15
Molybdenum (Mo)-Dissolved			94.2		%		80-120	30-APR-15
Nickel (Ni)-Dissolved			93.1		%		80-120	30-APR-15
Phosphorus (P)-Dissolved			96.4		%		80-120	30-APR-15
Potassium (K)-Dissolved			92.9		%		80-120	30-APR-15
Selenium (Se)-Dissolved			92.0		%		80-120	30-APR-15
Silicon (Si)-Dissolved			97.2		%		80-120	30-APR-15
Silver (Ag)-Dissolved			101.6		%		80-120	30-APR-15
Sodium (Na)-Dissolved			96.5		%		80-120	30-APR-15
Strontium (Sr)-Dissolved			92.3		%		80-120	30-APR-15
Thallium (Tl)-Dissolved			94.0		%		80-120	30-APR-15
Tin (Sn)-Dissolved			94.1		%		80-120	30-APR-15
Titanium (Ti)-Dissolved			96.4		%		80-120	30-APR-15
Tungsten (W)-Dissolved			95.1		%		80-120	30-APR-15
Uranium (U)-Dissolved			92.8		%		80-120	30-APR-15
Vanadium (V)-Dissolved			95.8		%		80-120	30-APR-15
Zinc (Zn)-Dissolved			93.6		%		80-120	30-APR-15
Zirconium (Zr)-Dissolved			90.6		%		80-120	30-APR-15
WG2079351-1	**MB**							
Aluminum (Al)-Dissolved			<0.010		mg/L		0.01	30-APR-15
Antimony (Sb)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Arsenic (As)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Barium (Ba)-Dissolved			<0.0020		mg/L		0.002	30-APR-15
Beryllium (Be)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Bismuth (Bi)-Dissolved			<0.0010		mg/L		0.001	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch R3182741								
WG2079351-1 MB								
Boron (B)-Dissolved			<0.010		mg/L		0.01	30-APR-15
Cadmium (Cd)-Dissolved			<0.000090		mg/L		0.00009	30-APR-15
Calcium (Ca)-Dissolved			<0.50		mg/L		0.5	30-APR-15
Chromium (Cr)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Cobalt (Co)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Copper (Cu)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Iron (Fe)-Dissolved			<0.050		mg/L		0.05	30-APR-15
Lead (Pb)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Magnesium (Mg)-Dissolved			<0.50		mg/L		0.5	30-APR-15
Manganese (Mn)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Molybdenum (Mo)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	30-APR-15
Potassium (K)-Dissolved			<1.0		mg/L		1	30-APR-15
Selenium (Se)-Dissolved			<0.00040		mg/L		0.0004	30-APR-15
Silicon (Si)-Dissolved			<1.0		mg/L		1	30-APR-15
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	30-APR-15
Sodium (Na)-Dissolved			<0.50		mg/L		0.5	30-APR-15
Strontium (Sr)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Thallium (Tl)-Dissolved			<0.00030		mg/L		0.0003	30-APR-15
Tin (Sn)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Titanium (Ti)-Dissolved			<0.0020		mg/L		0.002	30-APR-15
Tungsten (W)-Dissolved			<0.010		mg/L		0.01	30-APR-15
Uranium (U)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Zinc (Zn)-Dissolved			<0.0030		mg/L		0.003	30-APR-15
Zirconium (Zr)-Dissolved			<0.0040		mg/L		0.004	30-APR-15
WG2079353-1 MB								
Aluminum (Al)-Dissolved			<0.010		mg/L		0.01	30-APR-15
Antimony (Sb)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Arsenic (As)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Barium (Ba)-Dissolved			<0.0020		mg/L		0.002	30-APR-15
Beryllium (Be)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Bismuth (Bi)-Dissolved			<0.0010		mg/L		0.001	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch R3182741								
WG2079353-1 MB								
Boron (B)-Dissolved			<0.010		mg/L		0.01	30-APR-15
Cadmium (Cd)-Dissolved			<0.000090		mg/L		0.00009	30-APR-15
Calcium (Ca)-Dissolved			<0.50		mg/L		0.5	30-APR-15
Chromium (Cr)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Cobalt (Co)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Copper (Cu)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Iron (Fe)-Dissolved			<0.050		mg/L		0.05	30-APR-15
Lead (Pb)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Magnesium (Mg)-Dissolved			<0.50		mg/L		0.5	30-APR-15
Manganese (Mn)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Molybdenum (Mo)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	30-APR-15
Potassium (K)-Dissolved			<1.0		mg/L		1	30-APR-15
Selenium (Se)-Dissolved			<0.00040		mg/L		0.0004	30-APR-15
Silicon (Si)-Dissolved			<1.0		mg/L		1	30-APR-15
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	30-APR-15
Sodium (Na)-Dissolved			<0.50		mg/L		0.5	30-APR-15
Strontium (Sr)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Thallium (Tl)-Dissolved			<0.00030		mg/L		0.0003	30-APR-15
Tin (Sn)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Titanium (Ti)-Dissolved			<0.0020		mg/L		0.002	30-APR-15
Tungsten (W)-Dissolved			<0.010		mg/L		0.01	30-APR-15
Uranium (U)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Zinc (Zn)-Dissolved			<0.0030		mg/L		0.003	30-APR-15
Zirconium (Zr)-Dissolved			<0.0040		mg/L		0.004	30-APR-15
WG2079351-5 MS		**WG2079351-3**						
Aluminum (Al)-Dissolved			89.6		%		70-130	30-APR-15
Antimony (Sb)-Dissolved			75.9		%		70-130	30-APR-15
Arsenic (As)-Dissolved			92.9		%		70-130	30-APR-15
Barium (Ba)-Dissolved			83.8		%		70-130	30-APR-15
Beryllium (Be)-Dissolved			78.7		%		70-130	30-APR-15
Bismuth (Bi)-Dissolved			71.5		%		70-130	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch R3182741								
WG2079351-5 MS		**WG2079351-3**						
Boron (B)-Dissolved			73.1		%		70-130	30-APR-15
Cadmium (Cd)-Dissolved			85.6		%		70-130	30-APR-15
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	30-APR-15
Chromium (Cr)-Dissolved			86.9		%		70-130	30-APR-15
Cobalt (Co)-Dissolved			84.6		%		70-130	30-APR-15
Copper (Cu)-Dissolved			84.4		%		70-130	30-APR-15
Iron (Fe)-Dissolved			87.2		%		70-130	30-APR-15
Lead (Pb)-Dissolved			74.8		%		70-130	30-APR-15
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	30-APR-15
Manganese (Mn)-Dissolved			81.4		%		70-130	30-APR-15
Molybdenum (Mo)-Dissolved			78.1		%		70-130	30-APR-15
Nickel (Ni)-Dissolved			84.6		%		70-130	30-APR-15
Phosphorus (P)-Dissolved			92.5		%		70-130	30-APR-15
Potassium (K)-Dissolved			N/A	MS-B	%		-	30-APR-15
Selenium (Se)-Dissolved			95.0		%		70-130	30-APR-15
Silicon (Si)-Dissolved			N/A	MS-B	%		-	30-APR-15
Silver (Ag)-Dissolved			85.3		%		70-130	30-APR-15
Sodium (Na)-Dissolved			78.6		%		70-130	30-APR-15
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	30-APR-15
Thallium (Tl)-Dissolved			74.5		%		70-130	30-APR-15
Tin (Sn)-Dissolved			82.8		%		70-130	30-APR-15
Titanium (Ti)-Dissolved			89.2		%		70-130	30-APR-15
Tungsten (W)-Dissolved			77.0		%		70-130	30-APR-15
Uranium (U)-Dissolved			77.8		%		70-130	30-APR-15
Vanadium (V)-Dissolved			89.9		%		70-130	30-APR-15
Zinc (Zn)-Dissolved			87.8		%		70-130	30-APR-15
Zirconium (Zr)-Dissolved			75.7		%		70-130	30-APR-15
WG2079353-5 MS		**WG2079353-3**						
Aluminum (Al)-Dissolved			94.2		%		70-130	30-APR-15
Antimony (Sb)-Dissolved			89.8		%		70-130	30-APR-15
Arsenic (As)-Dissolved			89.1		%		70-130	30-APR-15
Barium (Ba)-Dissolved			85.6		%		70-130	30-APR-15
Beryllium (Be)-Dissolved			87.7		%		70-130	30-APR-15
Bismuth (Bi)-Dissolved			79.7		%		70-130	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch R3182741								
WG2079353-5 MS		**WG2079353-3**						
Boron (B)-Dissolved			84.7		%		70-130	30-APR-15
Cadmium (Cd)-Dissolved			83.1		%		70-130	30-APR-15
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	30-APR-15
Chromium (Cr)-Dissolved			83.0		%		70-130	30-APR-15
Cobalt (Co)-Dissolved			81.3		%		70-130	30-APR-15
Copper (Cu)-Dissolved			80.4		%		70-130	30-APR-15
Iron (Fe)-Dissolved			86.1		%		70-130	30-APR-15
Lead (Pb)-Dissolved			84.0		%		70-130	30-APR-15
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	30-APR-15
Manganese (Mn)-Dissolved			74.2		%		70-130	30-APR-15
Molybdenum (Mo)-Dissolved			86.0		%		70-130	30-APR-15
Nickel (Ni)-Dissolved			80.3		%		70-130	30-APR-15
Phosphorus (P)-Dissolved			89.6		%		70-130	30-APR-15
Potassium (K)-Dissolved			N/A	MS-B	%		-	30-APR-15
Selenium (Se)-Dissolved			91.5		%		70-130	30-APR-15
Silicon (Si)-Dissolved			N/A	MS-B	%		-	30-APR-15
Silver (Ag)-Dissolved			90.3		%		70-130	30-APR-15
Sodium (Na)-Dissolved			N/A	MS-B	%		-	30-APR-15
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	30-APR-15
Thallium (Tl)-Dissolved			84.1		%		70-130	30-APR-15
Tin (Sn)-Dissolved			87.8		%		70-130	30-APR-15
Titanium (Ti)-Dissolved			87.9		%		70-130	30-APR-15
Tungsten (W)-Dissolved			85.8		%		70-130	30-APR-15
Uranium (U)-Dissolved			85.2		%		70-130	30-APR-15
Vanadium (V)-Dissolved			87.5		%		70-130	30-APR-15
Zinc (Zn)-Dissolved			80.4		%		70-130	30-APR-15
Zirconium (Zr)-Dissolved			82.8		%		70-130	30-APR-15
Batch R3182986								
WG2079584-1 CVS								
Aluminum (Al)-Dissolved			102.2		%		80-120	30-APR-15
Antimony (Sb)-Dissolved			98.3		%		80-120	30-APR-15
Arsenic (As)-Dissolved			99.1		%		80-120	30-APR-15
Barium (Ba)-Dissolved			96.4		%		80-120	30-APR-15
Beryllium (Be)-Dissolved			95.5		%		80-120	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch R3182986								
WG2079584-1 CVS								
Bismuth (Bi)-Dissolved			105.6		%		80-120	30-APR-15
Boron (B)-Dissolved			101.8		%		80-120	30-APR-15
Cadmium (Cd)-Dissolved			96.4		%		80-120	30-APR-15
Calcium (Ca)-Dissolved			99.3		%		80-120	30-APR-15
Chromium (Cr)-Dissolved			98.6		%		80-120	30-APR-15
Cobalt (Co)-Dissolved			99.6		%		80-120	30-APR-15
Copper (Cu)-Dissolved			100.0		%		80-120	30-APR-15
Iron (Fe)-Dissolved			97.5		%		80-120	30-APR-15
Lead (Pb)-Dissolved			102.0		%		80-120	30-APR-15
Magnesium (Mg)-Dissolved			99.3		%		80-120	30-APR-15
Manganese (Mn)-Dissolved			100.1		%		80-120	30-APR-15
Molybdenum (Mo)-Dissolved			93.8		%		80-120	30-APR-15
Nickel (Ni)-Dissolved			100.2		%		80-120	30-APR-15
Phosphorus (P)-Dissolved			98.7		%		80-120	30-APR-15
Potassium (K)-Dissolved			102.6		%		80-120	30-APR-15
Selenium (Se)-Dissolved			99.0		%		80-120	30-APR-15
Silicon (Si)-Dissolved			102.7		%		80-120	30-APR-15
Silver (Ag)-Dissolved			101.7		%		80-120	30-APR-15
Sodium (Na)-Dissolved			102.1		%		80-120	30-APR-15
Strontium (Sr)-Dissolved			99.5		%		80-120	30-APR-15
Thallium (Tl)-Dissolved			101.8		%		80-120	30-APR-15
Tin (Sn)-Dissolved			96.4		%		80-120	30-APR-15
Titanium (Ti)-Dissolved			101.0		%		80-120	30-APR-15
Tungsten (W)-Dissolved			102.6		%		80-120	30-APR-15
Uranium (U)-Dissolved			100.9		%		80-120	30-APR-15
Vanadium (V)-Dissolved			99.0		%		80-120	30-APR-15
Zinc (Zn)-Dissolved			95.3		%		80-120	30-APR-15
Zirconium (Zr)-Dissolved			97.4		%		80-120	30-APR-15
WG2079584-3 CVS								
Aluminum (Al)-Dissolved			98.1		%		80-120	01-MAY-15
Antimony (Sb)-Dissolved			97.6		%		80-120	01-MAY-15
Arsenic (As)-Dissolved			96.4		%		80-120	01-MAY-15
Barium (Ba)-Dissolved			95.9		%		80-120	01-MAY-15
Beryllium (Be)-Dissolved			99.5		%		80-120	01-MAY-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch R3182986								
WG2079584-3 CVS								
Bismuth (Bi)-Dissolved			99.6		%		80-120	01-MAY-15
Boron (B)-Dissolved			101.9		%		80-120	01-MAY-15
Cadmium (Cd)-Dissolved			98.2		%		80-120	01-MAY-15
Calcium (Ca)-Dissolved			94.3		%		80-120	01-MAY-15
Chromium (Cr)-Dissolved			96.7		%		80-120	01-MAY-15
Cobalt (Co)-Dissolved			97.6		%		80-120	01-MAY-15
Copper (Cu)-Dissolved			97.8		%		80-120	01-MAY-15
Iron (Fe)-Dissolved			96.9		%		80-120	01-MAY-15
Lead (Pb)-Dissolved			99.6		%		80-120	01-MAY-15
Magnesium (Mg)-Dissolved			97.3		%		80-120	01-MAY-15
Manganese (Mn)-Dissolved			97.6		%		80-120	01-MAY-15
Molybdenum (Mo)-Dissolved			97.9		%		80-120	01-MAY-15
Nickel (Ni)-Dissolved			97.6		%		80-120	01-MAY-15
Phosphorus (P)-Dissolved			96.6		%		80-120	01-MAY-15
Potassium (K)-Dissolved			95.4		%		80-120	01-MAY-15
Selenium (Se)-Dissolved			96.9		%		80-120	01-MAY-15
Silicon (Si)-Dissolved			100.8		%		80-120	01-MAY-15
Silver (Ag)-Dissolved			98.7		%		80-120	01-MAY-15
Sodium (Na)-Dissolved			97.1		%		80-120	01-MAY-15
Strontium (Sr)-Dissolved			98.8		%		80-120	01-MAY-15
Thallium (Tl)-Dissolved			100.2		%		80-120	01-MAY-15
Tin (Sn)-Dissolved			97.4		%		80-120	01-MAY-15
Titanium (Ti)-Dissolved			97.7		%		80-120	01-MAY-15
Tungsten (W)-Dissolved			98.6		%		80-120	01-MAY-15
Uranium (U)-Dissolved			98.5		%		80-120	01-MAY-15
Vanadium (V)-Dissolved			97.6		%		80-120	01-MAY-15
Zinc (Zn)-Dissolved			92.9		%		80-120	01-MAY-15
Zirconium (Zr)-Dissolved			99.9		%		80-120	01-MAY-15
WG2079348-4 DUP		**WG2079348-3**						
Aluminum (Al)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	30-APR-15
Antimony (Sb)-Dissolved		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	30-APR-15
Arsenic (As)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	30-APR-15
Barium (Ba)-Dissolved		0.094	0.099		mg/L	4.7	20	30-APR-15
Beryllium (Be)-Dissolved		<0.0050	<0.0050					

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch R3182986								
WG2079348-4 DUP		**WG2079348-3**						
Beryllium (Be)-Dissolved		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	30-APR-15
Bismuth (Bi)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	30-APR-15
Boron (B)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	30-APR-15
Cadmium (Cd)-Dissolved		<0.00090	<0.00090	RPD-NA	mg/L	N/A	20	30-APR-15
Calcium (Ca)-Dissolved		109	109		mg/L	0.6	20	30-APR-15
Chromium (Cr)-Dissolved		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	30-APR-15
Cobalt (Co)-Dissolved		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	30-APR-15
Copper (Cu)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	30-APR-15
Iron (Fe)-Dissolved		<0.50	<0.50	RPD-NA	mg/L	N/A	20	30-APR-15
Lead (Pb)-Dissolved		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	30-APR-15
Magnesium (Mg)-Dissolved		34.9	36.4		mg/L	4.2	20	30-APR-15
Manganese (Mn)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	30-APR-15
Molybdenum (Mo)-Dissolved		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	30-APR-15
Nickel (Ni)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	30-APR-15
Phosphorus (P)-Dissolved		<0.50	<0.50	RPD-NA	mg/L	N/A	20	30-APR-15
Potassium (K)-Dissolved		<10	<10	RPD-NA	mg/L	N/A	20	30-APR-15
Selenium (Se)-Dissolved		<0.0040	<0.0040	RPD-NA	mg/L	N/A	20	30-APR-15
Silicon (Si)-Dissolved		<10	<10	RPD-NA	mg/L	N/A	20	30-APR-15
Silver (Ag)-Dissolved		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Sodium (Na)-Dissolved		35.6	35.0		mg/L	1.5	20	30-APR-15
Strontium (Sr)-Dissolved		1.08	1.05		mg/L	3.2	20	30-APR-15
Thallium (Tl)-Dissolved		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	30-APR-15
Tin (Sn)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	30-APR-15
Titanium (Ti)-Dissolved		<0.020	<0.020	RPD-NA	mg/L	N/A	20	30-APR-15
Tungsten (W)-Dissolved		<0.10	<0.10	RPD-NA	mg/L	N/A	20	30-APR-15
Uranium (U)-Dissolved		<0.010	<0.010	RPD-NA	mg/L	N/A	20	30-APR-15
Vanadium (V)-Dissolved		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	30-APR-15
Zinc (Zn)-Dissolved		<0.030	<0.030	RPD-NA	mg/L	N/A	20	30-APR-15
Zirconium (Zr)-Dissolved		<0.040	<0.040	RPD-NA	mg/L	N/A	20	30-APR-15
WG2079348-2 LCS								
Aluminum (Al)-Dissolved			98.6		%		80-120	30-APR-15
Antimony (Sb)-Dissolved			94.4		%		80-120	30-APR-15
Arsenic (As)-Dissolved			95.8		%		80-120	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch R3182986								
WG2079348-2 LCS								
Barium (Ba)-Dissolved			93.7		%		80-120	30-APR-15
Beryllium (Be)-Dissolved			97.3		%		80-120	30-APR-15
Bismuth (Bi)-Dissolved			99.2		%		80-120	30-APR-15
Boron (B)-Dissolved			97.7		%		80-120	30-APR-15
Cadmium (Cd)-Dissolved			94.3		%		80-120	30-APR-15
Calcium (Ca)-Dissolved			91.8		%		80-120	30-APR-15
Chromium (Cr)-Dissolved			94.3		%		80-120	30-APR-15
Cobalt (Co)-Dissolved			94.8		%		80-120	30-APR-15
Copper (Cu)-Dissolved			95.4		%		80-120	30-APR-15
Iron (Fe)-Dissolved			93.6		%		80-120	30-APR-15
Lead (Pb)-Dissolved			98.1		%		80-120	30-APR-15
Magnesium (Mg)-Dissolved			96.6		%		80-120	30-APR-15
Manganese (Mn)-Dissolved			95.3		%		80-120	30-APR-15
Molybdenum (Mo)-Dissolved			96.4		%		80-120	30-APR-15
Nickel (Ni)-Dissolved			95.3		%		80-120	30-APR-15
Phosphorus (P)-Dissolved			96.7		%		80-120	30-APR-15
Potassium (K)-Dissolved			96.2		%		80-120	30-APR-15
Selenium (Se)-Dissolved			97.0		%		80-120	30-APR-15
Silicon (Si)-Dissolved			101.4		%		80-120	30-APR-15
Silver (Ag)-Dissolved			98.2		%		80-120	30-APR-15
Sodium (Na)-Dissolved			99.5		%		80-120	30-APR-15
Strontium (Sr)-Dissolved			97.4		%		80-120	30-APR-15
Thallium (Tl)-Dissolved			99.2		%		80-120	30-APR-15
Tin (Sn)-Dissolved			96.4		%		80-120	30-APR-15
Titanium (Ti)-Dissolved			97.0		%		80-120	30-APR-15
Tungsten (W)-Dissolved			102.8		%		80-120	30-APR-15
Uranium (U)-Dissolved			94.3		%		80-120	30-APR-15
Vanadium (V)-Dissolved			96.5		%		80-120	30-APR-15
Zinc (Zn)-Dissolved			95.8		%		80-120	30-APR-15
Zirconium (Zr)-Dissolved			98.8		%		80-120	30-APR-15
WG2079348-1 MB								
Aluminum (Al)-Dissolved			<0.010		mg/L		0.01	30-APR-15
Antimony (Sb)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Arsenic (As)-Dissolved			<0.0010		mg/L		0.001	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch R3182986								
WG2079348-1 MB								
Barium (Ba)-Dissolved			<0.0020		mg/L		0.002	30-APR-15
Beryllium (Be)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Bismuth (Bi)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Boron (B)-Dissolved			<0.010		mg/L		0.01	30-APR-15
Cadmium (Cd)-Dissolved			<0.000090		mg/L		0.00009	30-APR-15
Calcium (Ca)-Dissolved			<0.50		mg/L		0.5	30-APR-15
Chromium (Cr)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Cobalt (Co)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Copper (Cu)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Iron (Fe)-Dissolved			<0.050		mg/L		0.05	30-APR-15
Lead (Pb)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Magnesium (Mg)-Dissolved			<0.50		mg/L		0.5	30-APR-15
Manganese (Mn)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Molybdenum (Mo)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Nickel (Ni)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	30-APR-15
Potassium (K)-Dissolved			<1.0		mg/L		1	30-APR-15
Selenium (Se)-Dissolved			<0.00040		mg/L		0.0004	30-APR-15
Silicon (Si)-Dissolved			<1.0		mg/L		1	30-APR-15
Silver (Ag)-Dissolved			<0.00010		mg/L		0.0001	30-APR-15
Sodium (Na)-Dissolved			<0.50		mg/L		0.5	30-APR-15
Strontium (Sr)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Thallium (Tl)-Dissolved			<0.00030		mg/L		0.0003	30-APR-15
Tin (Sn)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Titanium (Ti)-Dissolved			<0.0020		mg/L		0.002	30-APR-15
Tungsten (W)-Dissolved			<0.010		mg/L		0.01	30-APR-15
Uranium (U)-Dissolved			<0.0010		mg/L		0.001	30-APR-15
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	30-APR-15
Zinc (Zn)-Dissolved			<0.0030		mg/L		0.003	30-APR-15
Zirconium (Zr)-Dissolved			<0.0040		mg/L		0.004	30-APR-15
WG2079348-5 MS		**WG2079348-3**						
Aluminum (Al)-Dissolved			91.1		%		70-130	30-APR-15
Antimony (Sb)-Dissolved			86.4		%		70-130	30-APR-15
Arsenic (As)-Dissolved			89.8		%		70-130	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-MS-WT	**Water**							
Batch R3182986								
WG2079348-5 MS		**WG2079348-3**						
Barium (Ba)-Dissolved			N/A	MS-B	%		-	30-APR-15
Beryllium (Be)-Dissolved			89.9		%		70-130	30-APR-15
Bismuth (Bi)-Dissolved			87.7		%		70-130	30-APR-15
Boron (B)-Dissolved			92.8		%		70-130	30-APR-15
Cadmium (Cd)-Dissolved			85.8		%		70-130	30-APR-15
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	30-APR-15
Chromium (Cr)-Dissolved			87.2		%		70-130	30-APR-15
Cobalt (Co)-Dissolved			88.3		%		70-130	30-APR-15
Copper (Cu)-Dissolved			88.8		%		70-130	30-APR-15
Iron (Fe)-Dissolved			85.0		%		70-130	30-APR-15
Lead (Pb)-Dissolved			87.7		%		70-130	30-APR-15
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	30-APR-15
Manganese (Mn)-Dissolved			87.1		%		70-130	30-APR-15
Molybdenum (Mo)-Dissolved			88.1		%		70-130	30-APR-15
Nickel (Ni)-Dissolved			89.5		%		70-130	30-APR-15
Phosphorus (P)-Dissolved			94.8		%		70-130	30-APR-15
Potassium (K)-Dissolved			92.9		%		70-130	30-APR-15
Selenium (Se)-Dissolved			90.0		%		70-130	30-APR-15
Silicon (Si)-Dissolved			117.4		%		70-130	30-APR-15
Silver (Ag)-Dissolved			87.4		%		70-130	30-APR-15
Sodium (Na)-Dissolved			N/A	MS-B	%		-	30-APR-15
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	30-APR-15
Thallium (Tl)-Dissolved			86.7		%		70-130	30-APR-15
Tin (Sn)-Dissolved			86.1		%		70-130	30-APR-15
Titanium (Ti)-Dissolved			87.9		%		70-130	30-APR-15
Tungsten (W)-Dissolved			89.4		%		70-130	30-APR-15
Uranium (U)-Dissolved			84.9		%		70-130	30-APR-15
Vanadium (V)-Dissolved			89.8		%		70-130	30-APR-15
Zinc (Zn)-Dissolved			90.2		%		70-130	30-APR-15
Zirconium (Zr)-Dissolved			89.0		%		70-130	30-APR-15
MET-T-MS-WT	**Water**							

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MS-WT	**Water**							
Batch R3182689								
WG2079452-1 CVS								
Aluminum (Al)-Total			105.5		%		80-120	30-APR-15
Antimony (Sb)-Total			99.96		%		80-120	30-APR-15
Arsenic (As)-Total			100.6		%		80-120	30-APR-15
Barium (Ba)-Total			98.0		%		80-120	30-APR-15
Beryllium (Be)-Total			103.2		%		80-120	30-APR-15
Bismuth (Bi)-Total			99.6		%		80-120	30-APR-15
Boron (B)-Total			110.0		%		80-120	30-APR-15
Cadmium (Cd)-Total			99.4		%		80-120	30-APR-15
Calcium (Ca)-Total			94.7		%		80-120	30-APR-15
Chromium (Cr)-Total			99.7		%		80-120	30-APR-15
Cobalt (Co)-Total			101.0		%		80-120	30-APR-15
Copper (Cu)-Total			101.5		%		80-120	30-APR-15
Iron (Fe)-Total			100.5		%		80-120	30-APR-15
Lead (Pb)-Total			101.3		%		80-120	30-APR-15
Magnesium (Mg)-Total			99.6		%		80-120	30-APR-15
Manganese (Mn)-Total			102.9		%		80-120	30-APR-15
Molybdenum (Mo)-Total			98.6		%		80-120	30-APR-15
Nickel (Ni)-Total			100.1		%		80-120	30-APR-15
Phosphorus (P)-Total			97.8		%		80-120	30-APR-15
Potassium (K)-Total			104.6		%		80-120	30-APR-15
Selenium (Se)-Total			97.6		%		80-120	30-APR-15
Silicon (Si)-Total			95.4		%		80-120	30-APR-15
Silver (Ag)-Total			104.1		%		80-120	30-APR-15
Sodium (Na)-Total			103.5		%		80-120	30-APR-15
Strontium (Sr)-Total			102.1		%		80-120	30-APR-15
Thallium (Tl)-Total			100.5		%		80-120	30-APR-15
Tin (Sn)-Total			98.3		%		80-120	30-APR-15
Titanium (Ti)-Total			99.0		%		80-120	30-APR-15
Tungsten (W)-Total			98.7		%		80-120	30-APR-15
Uranium (U)-Total			98.5		%		80-120	30-APR-15
Vanadium (V)-Total			100.6		%		80-120	30-APR-15
Zinc (Zn)-Total			94.7		%		80-120	30-APR-15
Zirconium (Zr)-Total			99.0		%		80-120	30-APR-15
WG2079452-3 CVS								

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MS-WT	**Water**							
Batch R3182689								
WG2079452-3 CVS								
Aluminum (Al)-Total			97.2		%		80-120	01-MAY-15
Antimony (Sb)-Total			99.6		%		80-120	01-MAY-15
Arsenic (As)-Total			95.5		%		80-120	01-MAY-15
Barium (Ba)-Total			95.8		%		80-120	01-MAY-15
Beryllium (Be)-Total			105.6		%		80-120	01-MAY-15
Bismuth (Bi)-Total			99.0		%		80-120	01-MAY-15
Boron (B)-Total			105.8		%		80-120	01-MAY-15
Cadmium (Cd)-Total			96.6		%		80-120	01-MAY-15
Calcium (Ca)-Total			93.1		%		80-120	01-MAY-15
Chromium (Cr)-Total			94.4		%		80-120	01-MAY-15
Cobalt (Co)-Total			95.7		%		80-120	01-MAY-15
Copper (Cu)-Total			96.2		%		80-120	01-MAY-15
Iron (Fe)-Total			94.4		%		80-120	01-MAY-15
Lead (Pb)-Total			99.3		%		80-120	01-MAY-15
Magnesium (Mg)-Total			95.7		%		80-120	01-MAY-15
Manganese (Mn)-Total			96.0		%		80-120	01-MAY-15
Molybdenum (Mo)-Total			95.5		%		80-120	01-MAY-15
Nickel (Ni)-Total			96.3		%		80-120	01-MAY-15
Phosphorus (P)-Total			95.8		%		80-120	01-MAY-15
Potassium (K)-Total			97.5		%		80-120	01-MAY-15
Selenium (Se)-Total			96.4		%		80-120	01-MAY-15
Silicon (Si)-Total			96.4		%		80-120	01-MAY-15
Silver (Ag)-Total			100.6		%		80-120	01-MAY-15
Sodium (Na)-Total			98.3		%		80-120	01-MAY-15
Strontium (Sr)-Total			99.0		%		80-120	01-MAY-15
Thallium (Tl)-Total			100.9		%		80-120	01-MAY-15
Tin (Sn)-Total			96.0		%		80-120	01-MAY-15
Titanium (Ti)-Total			97.0		%		80-120	01-MAY-15
Tungsten (W)-Total			99.9		%		80-120	01-MAY-15
Uranium (U)-Total			98.7		%		80-120	01-MAY-15
Vanadium (V)-Total			96.6		%		80-120	01-MAY-15
Zinc (Zn)-Total			90.1		%		80-120	01-MAY-15
Zirconium (Zr)-Total			97.9		%		80-120	01-MAY-15
WG2079330-4 DUP		**WG2079330-3**						

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MS-WT	**Water**							
Batch R3182689								
WG2079330-4 DUP		**WG2079330-3**						
Aluminum (Al)-Total		0.026	0.024		mg/L	9.7	20	30-APR-15
Antimony (Sb)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Arsenic (As)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Barium (Ba)-Total		0.0242	0.0233		mg/L	3.5	20	30-APR-15
Beryllium (Be)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Bismuth (Bi)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Boron (B)-Total		0.043	0.042		mg/L	1.3	20	30-APR-15
Cadmium (Cd)-Total		<0.000090	<0.000090	RPD-NA	mg/L	N/A	20	30-APR-15
Calcium (Ca)-Total		37.7	36.5		mg/L	3.2	20	30-APR-15
Chromium (Cr)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Cobalt (Co)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Copper (Cu)-Total		0.0020	0.0019		mg/L	4.6	20	30-APR-15
Iron (Fe)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	20	30-APR-15
Lead (Pb)-Total		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	30-APR-15
Magnesium (Mg)-Total		9.17	9.03		mg/L	1.5	20	30-APR-15
Manganese (Mn)-Total		0.0032	0.0031		mg/L	3.1	20	30-APR-15
Molybdenum (Mo)-Total		0.0120	0.0116		mg/L	3.1	20	30-APR-15
Nickel (Ni)-Total		0.0011	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Phosphorus (P)-Total		<0.050	<0.050	RPD-NA	mg/L	N/A	20	30-APR-15
Potassium (K)-Total		2.0	1.9		mg/L	4.6	20	30-APR-15
Selenium (Se)-Total		<0.00040	<0.00040	RPD-NA	mg/L	N/A	20	30-APR-15
Silicon (Si)-Total		<1.0	<1.0	RPD-NA	mg/L	N/A	20	30-APR-15
Silver (Ag)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	30-APR-15
Sodium (Na)-Total		13.0	12.7		mg/L	1.8	20	30-APR-15
Strontium (Sr)-Total		0.345	0.335		mg/L	3.1	20	30-APR-15
Thallium (Tl)-Total		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	30-APR-15
Tin (Sn)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Titanium (Ti)-Total		<0.0020	<0.0020	RPD-NA	mg/L	N/A	20	30-APR-15
Tungsten (W)-Total		<0.010	<0.010	RPD-NA	mg/L	N/A	20	30-APR-15
Uranium (U)-Total		<0.0010	<0.0010	RPD-NA	mg/L	N/A	20	30-APR-15
Vanadium (V)-Total		0.00054	0.00054		mg/L	0.7	20	30-APR-15
Zinc (Zn)-Total		0.0030	<0.0030	RPD-NA	mg/L	N/A	20	30-APR-15
Zirconium (Zr)-Total		<0.0040	<0.0040		mg/L			30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MS-WT	**Water**							
Batch R3182689								
WG2079330-4 DUP		**WG2079330-3**						
Zirconium (Zr)-Total		<0.0040	<0.0040	RPD-NA	mg/L	N/A	20	30-APR-15
WG2079330-2 LCS								
Aluminum (Al)-Total			101.5		%		80-120	30-APR-15
Antimony (Sb)-Total			97.2		%		80-120	30-APR-15
Arsenic (As)-Total			97.3		%		80-120	30-APR-15
Barium (Ba)-Total			96.5		%		80-120	30-APR-15
Beryllium (Be)-Total			95.8		%		80-120	30-APR-15
Bismuth (Bi)-Total			97.8		%		80-120	30-APR-15
Boron (B)-Total			97.2		%		80-120	30-APR-15
Cadmium (Cd)-Total			96.9		%		80-120	30-APR-15
Calcium (Ca)-Total			100.4		%		80-120	30-APR-15
Chromium (Cr)-Total			96.0		%		80-120	30-APR-15
Cobalt (Co)-Total			97.4		%		80-120	30-APR-15
Copper (Cu)-Total			97.2		%		80-120	30-APR-15
Iron (Fe)-Total			96.9		%		80-120	30-APR-15
Lead (Pb)-Total			97.3		%		80-120	30-APR-15
Magnesium (Mg)-Total			93.5		%		80-120	30-APR-15
Manganese (Mn)-Total			100.2		%		80-120	30-APR-15
Molybdenum (Mo)-Total			98.8		%		80-120	30-APR-15
Nickel (Ni)-Total			96.4		%		80-120	30-APR-15
Phosphorus (P)-Total			95.6		%		80-120	30-APR-15
Potassium (K)-Total			101.9		%		80-120	30-APR-15
Selenium (Se)-Total			94.9		%		80-120	30-APR-15
Silicon (Si)-Total			99.3		%		80-120	30-APR-15
Silver (Ag)-Total			101.7		%		80-120	30-APR-15
Sodium (Na)-Total			98.6		%		80-120	30-APR-15
Strontium (Sr)-Total			96.5		%		80-120	30-APR-15
Thallium (Tl)-Total			96.9		%		80-120	30-APR-15
Tin (Sn)-Total			99.1		%		80-120	30-APR-15
Titanium (Ti)-Total			97.4		%		80-120	30-APR-15
Tungsten (W)-Total			99.8		%		80-120	30-APR-15
Uranium (U)-Total			95.8		%		80-120	30-APR-15
Vanadium (V)-Total			97.6		%		80-120	30-APR-15
Zinc (Zn)-Total			96.7		%		80-120	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MS-WT	**Water**							
Batch R3182689								
WG2079330-2 LCS								
Zirconium (Zr)-Total			96.6		%		80-120	30-APR-15
WG2079330-1 MB								
Aluminum (Al)-Total			<0.010		mg/L		0.01	30-APR-15
Antimony (Sb)-Total			<0.00050		mg/L		0.0005	30-APR-15
Arsenic (As)-Total			<0.0010		mg/L		0.001	30-APR-15
Barium (Ba)-Total			<0.0020		mg/L		0.002	30-APR-15
Beryllium (Be)-Total			<0.00050		mg/L		0.0005	30-APR-15
Bismuth (Bi)-Total			<0.0010		mg/L		0.001	30-APR-15
Boron (B)-Total			<0.010		mg/L		0.01	30-APR-15
Cadmium (Cd)-Total			<0.000090		mg/L		0.00009	30-APR-15
Calcium (Ca)-Total			<0.50		mg/L		0.5	30-APR-15
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	30-APR-15
Cobalt (Co)-Total			<0.00050		mg/L		0.0005	30-APR-15
Copper (Cu)-Total			<0.0010		mg/L		0.001	30-APR-15
Iron (Fe)-Total			<0.050		mg/L		0.05	30-APR-15
Lead (Pb)-Total			<0.00050		mg/L		0.0005	30-APR-15
Magnesium (Mg)-Total			<0.50		mg/L		0.5	30-APR-15
Manganese (Mn)-Total			<0.0010		mg/L		0.001	30-APR-15
Molybdenum (Mo)-Total			<0.00050		mg/L		0.0005	30-APR-15
Nickel (Ni)-Total			<0.0010		mg/L		0.001	30-APR-15
Phosphorus (P)-Total			<0.050		mg/L		0.05	30-APR-15
Potassium (K)-Total			<1.0		mg/L		1	30-APR-15
Selenium (Se)-Total			<0.00040		mg/L		0.0004	30-APR-15
Silicon (Si)-Total			<1.0		mg/L		1	30-APR-15
Silver (Ag)-Total			<0.00010		mg/L		0.0001	30-APR-15
Sodium (Na)-Total			<0.50		mg/L		0.5	30-APR-15
Strontium (Sr)-Total			<0.0010		mg/L		0.001	30-APR-15
Thallium (Tl)-Total			<0.00030		mg/L		0.0003	30-APR-15
Tin (Sn)-Total			<0.0010		mg/L		0.001	30-APR-15
Titanium (Ti)-Total			<0.0020		mg/L		0.002	30-APR-15
Tungsten (W)-Total			<0.010		mg/L		0.01	30-APR-15
Uranium (U)-Total			<0.0010		mg/L		0.001	30-APR-15
Vanadium (V)-Total			<0.00050		mg/L		0.0005	30-APR-15
Zinc (Zn)-Total			<0.0030		mg/L		0.003	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MS-WT	**Water**							
Batch R3182689								
WG2079330-1 MB								
Zirconium (Zr)-Total			<0.0040		mg/L		0.004	30-APR-15
WG2079330-5 MS		**WG2079330-3**						
Aluminum (Al)-Total			98.8		%		70-130	30-APR-15
Antimony (Sb)-Total			97.5		%		70-130	30-APR-15
Arsenic (As)-Total			101.5		%		70-130	30-APR-15
Barium (Ba)-Total			98.2		%		70-130	30-APR-15
Beryllium (Be)-Total			97.9		%		70-130	30-APR-15
Bismuth (Bi)-Total			95.6		%		70-130	30-APR-15
Boron (B)-Total			100.9		%		70-130	30-APR-15
Cadmium (Cd)-Total			95.9		%		70-130	30-APR-15
Calcium (Ca)-Total			N/A	MS-B	%		-	30-APR-15
Chromium (Cr)-Total			97.0		%		70-130	30-APR-15
Cobalt (Co)-Total			97.5		%		70-130	30-APR-15
Copper (Cu)-Total			95.6		%		70-130	30-APR-15
Iron (Fe)-Total			98.4		%		70-130	30-APR-15
Lead (Pb)-Total			96.7		%		70-130	30-APR-15
Magnesium (Mg)-Total			96.1		%		70-130	30-APR-15
Manganese (Mn)-Total			98.7		%		70-130	30-APR-15
Molybdenum (Mo)-Total			99.3		%		70-130	30-APR-15
Nickel (Ni)-Total			96.7		%		70-130	30-APR-15
Phosphorus (P)-Total			99.6		%		70-130	30-APR-15
Potassium (K)-Total			100.7		%		70-130	30-APR-15
Selenium (Se)-Total			97.4		%		70-130	30-APR-15
Silicon (Si)-Total			110.4		%		70-130	30-APR-15
Silver (Ag)-Total			99.4		%		70-130	30-APR-15
Sodium (Na)-Total			N/A	MS-B	%		-	30-APR-15
Strontium (Sr)-Total			N/A	MS-B	%		-	30-APR-15
Thallium (Tl)-Total			95.8		%		70-130	30-APR-15
Tin (Sn)-Total			100.0		%		70-130	30-APR-15
Titanium (Ti)-Total			98.4		%		70-130	30-APR-15
Tungsten (W)-Total			99.7		%		70-130	30-APR-15
Uranium (U)-Total			97.6		%		70-130	30-APR-15
Vanadium (V)-Total			99.2		%		70-130	30-APR-15
Zinc (Zn)-Total			97.0		%		70-130	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-MS-WT	**Water**							
Batch R3182689								
WG2079330-5 MS		**WG2079330-3**						
Zirconium (Zr)-Total			97.4		%		70-130	30-APR-15
NH3-WT	**Water**							
Batch R3182742								
WG2079528-2 CVS								
Ammonia, Total (as N)			102.0		%		85-115	30-APR-15
WG2079528-3 DUP		**L1605020-4**						
Ammonia, Total (as N)		0.141	0.116		mg/L	19	20	30-APR-15
WG2079528-1 MB								
Ammonia, Total (as N)			<0.050		mg/L		0.05	30-APR-15
WG2079528-4 MS		**L1605020-4**						
Ammonia, Total (as N)			88.5		%		75-125	30-APR-15
Batch R3182762								
WG2079545-2 CVS								
Ammonia, Total (as N)			105.2		%		85-115	30-APR-15
WG2079545-3 DUP		**L1604943-11**						
Ammonia, Total (as N)		<0.050	<0.050	RPD-NA	mg/L	N/A	20	30-APR-15
WG2079545-1 MB								
Ammonia, Total (as N)			<0.050		mg/L		0.05	30-APR-15
WG2079545-4 MS		**L1604943-11**						
Ammonia, Total (as N)			108.4		%		75-125	30-APR-15
Batch R3184038								
WG2080572-2 CVS								
Ammonia, Total (as N)			111.1		%		85-115	01-MAY-15
WG2080572-3 DUP		**L1605237-1**						
Ammonia, Total (as N)		<0.050	0.050	RPD-NA	mg/L	N/A	20	01-MAY-15
WG2080572-1 MB								
Ammonia, Total (as N)			<0.050		mg/L		0.05	01-MAY-15
WG2080572-4 MS		**L1605237-1**						
Ammonia, Total (as N)			97.9		%		75-125	01-MAY-15
NO2-IC-WT	**Water**							
Batch R3183030								
WG2079630-4 DUP		**L1604943-2**						
Nitrite (as N)		<0.010	<0.010	RPD-NA	mg/L	N/A	25	30-APR-15
WG2079630-2 LCS								
Nitrite (as N)			104.3		%		70-130	30-APR-15
WG2079630-1 MB								

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO2-IC-WT	**Water**							
Batch R3183030								
WG2079630-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	30-APR-15
WG2079630-5 MS		**L1604943-2**						
Nitrite (as N)			99.1		%		70-130	30-APR-15
Batch R3183036								
WG2079635-4 DUP		**L1604943-20**						
Nitrite (as N)		<0.010	<0.010	RPD-NA	mg/L	N/A	25	30-APR-15
WG2079635-2 LCS								
Nitrite (as N)			105.2		%		70-130	30-APR-15
WG2079635-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	30-APR-15
WG2079635-5 MS		**L1604943-20**						
Nitrite (as N)			98.9		%		70-130	30-APR-15
NO3-IC-WT	**Water**							
Batch R3183030								
WG2079630-4 DUP		**L1604943-2**						
Nitrate (as N)		<0.020	<0.020	RPD-NA	mg/L	N/A	25	30-APR-15
WG2079630-2 LCS								
Nitrate (as N)			101.4		%		70-130	30-APR-15
WG2079630-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	30-APR-15
WG2079630-5 MS		**L1604943-2**						
Nitrate (as N)			96.1		%		70-130	30-APR-15
Batch R3183036								
WG2079635-4 DUP		**L1604943-20**						
Nitrate (as N)		<0.020	<0.020	RPD-NA	mg/L	N/A	25	30-APR-15
WG2079635-2 LCS								
Nitrate (as N)			101.8		%		70-130	30-APR-15
WG2079635-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	30-APR-15
WG2079635-5 MS		**L1604943-20**						
Nitrate (as N)			99.3		%		70-130	30-APR-15
PH-WT	**Water**							
Batch R3182315								
WG2079180-2 DUP		**L1604897-12**						
pH		7.26	7.26	J	pH units	0.00	0.2	29-APR-15
WG2079180-1 LCS								

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WT	**Water**							
Batch R3182315								
WG2079180-1 LCS								
pH			6.99		pH units		6.9-7.1	29-APR-15
Batch R3182321								
WG2079181-2 DUP		**L1604943-18**						
pH		7.91	7.94	J	pH units	0.03	0.2	29-APR-15
WG2079181-1 LCS								
pH			7.01		pH units		6.9-7.1	29-APR-15
PO4-DO-COL-WT	**Water**							
Batch R3182907								
WG2079445-3 DUP		**L1604943-1**						
Phosphate-P (ortho)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	30-APR-15
WG2079445-2 LCS								
Phosphate-P (ortho)			107.2		%		80-120	30-APR-15
WG2079445-1 MB								
Phosphate-P (ortho)			<0.0030		mg/L		0.003	30-APR-15
WG2079445-4 MS		**L1604943-1**						
Phosphate-P (ortho)			107.1		%		70-130	30-APR-15
Batch R3182911								
WG2079716-3 DUP		**L1604943-21**						
Phosphate-P (ortho)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	30-APR-15
WG2079716-2 LCS								
Phosphate-P (ortho)			103.1		%		80-120	30-APR-15
WG2079716-1 MB								
Phosphate-P (ortho)			<0.0030		mg/L		0.003	30-APR-15
WG2079716-4 MS		**L1604943-21**						
Phosphate-P (ortho)			108.7		%		70-130	30-APR-15
SO4-IC-N-WT	**Water**							
Batch R3183030								
WG2079630-4 DUP		**L1604943-2**						
Sulfate (SO4)		79.0	79.3		mg/L	0.5	20	30-APR-15
WG2079630-2 LCS								
Sulfate (SO4)			102.0		%		90-110	30-APR-15
WG2079630-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	30-APR-15
WG2079630-5 MS		**L1604943-2**						
Sulfate (SO4)			88.8		%		75-125	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SO4-IC-N-WT	**Water**							
Batch R3183036								
WG2079635-4 DUP		**L1604943-20**						
Sulfate (SO4)		18.9	18.7		mg/L	0.6	20	30-APR-15
WG2079635-2 LCS								
Sulfate (SO4)			102.2		%		90-110	30-APR-15
WG2079635-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	30-APR-15
WG2079635-5 MS		**L1604943-20**						
Sulfate (SO4)			97.3		%		75-125	30-APR-15
SOLIDS-TDS-WT	**Water**							
Batch R3183466								
WG2080437-3 DUP		**L1604897-12**						
Total Dissolved Solids		1670	1660		mg/L	0.1	20	02-MAY-15
WG2080437-2 LCS								
Total Dissolved Solids			96.3		%		85-115	02-MAY-15
WG2080437-1 MB								
Total Dissolved Solids			<10		mg/L		10	02-MAY-15
Batch R3183469								
WG2080442-3 DUP		**L1604943-17**						
Total Dissolved Solids		240	260		mg/L	8.0	20	02-MAY-15
WG2080442-2 LCS								
Total Dissolved Solids			99.4		%		85-115	02-MAY-15
WG2080442-1 MB								
Total Dissolved Solids			<10		mg/L		10	02-MAY-15
TURBIDITY-WT	**Water**							
Batch R3182121								
WG2079388-3 DUP		**L1604943-1**						
Turbidity		17.6	18.1		NTU	2.8	15	30-APR-15
WG2079388-2 LCS								
Turbidity			103.0		%		85-115	30-APR-15
WG2079388-1 MB								
Turbidity			<0.10		NTU		0.1	30-APR-15
Batch R3182124								
WG2079391-3 DUP		**L1604943-2**						
Turbidity		18.7	18.0		NTU	3.8	15	30-APR-15
WG2079391-2 LCS								
Turbidity			110.0		%		85-115	30-APR-15
WG2079391-1 MB								
							0.1	

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-WT	**Water**							
Batch R3182124								
WG2079391-1 MB								
Turbidity			<0.10		NTU		0.1	30-APR-15
Batch R3182127								
WG2079394-3 DUP		**L1605034-1**						
Turbidity		38.0	38.0		NTU	0.0	15	30-APR-15
WG2079394-2 LCS								
Turbidity			103.0		%		85-115	30-APR-15
WG2079394-1 MB								
Turbidity			<0.10		NTU		0.1	30-APR-15
VOC-ROU-HS-WT	**Water**							
Batch R3182776								
WG2078687-4 DUP		**L1604943-10**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
1,2-Dibromoethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
2-Hexanone		<20	<20	RPD-NA	ug/L	N/A	30	01-MAY-15
Acetone		<20	<20	RPD-NA	ug/L	N/A	30	01-MAY-15
Benzene		0.67	0.59		ug/L	13	30	01-MAY-15
Bromodichloromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	01-MAY-15
Bromoform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	01-MAY-15
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
Carbon Disulfide		<1.0	<1.0	RPD-NA	ug/L	N/A	30	01-MAY-15
Carbon tetrachloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
Chloroethane		1.2	1.0		ug/L	15	30	01-MAY-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	**Water**							
Batch R3182776								
WG2078687-4 DUP		**L1604943-10**						
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	01-MAY-15
Chloromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	01-MAY-15
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
cis-1,3-Dichloropropene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
Dibromochloromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	01-MAY-15
Dichlorodifluoromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	01-MAY-15
Dichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	01-MAY-15
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
m+p-Xylenes		<1.0	<1.0	RPD-NA	ug/L	N/A	30	01-MAY-15
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	01-MAY-15
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	01-MAY-15
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
MTBE		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
o-Xylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
trans-1,3-Dichloropropene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
Trichlorofluoromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	01-MAY-15
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	01-MAY-15
WG2078687-1 LCS								
1,1,1,2-Tetrachloroethane			98.9		%		70-130	30-APR-15
1,1,2,2-Tetrachloroethane			102.4		%		70-130	30-APR-15
1,1,1-Trichloroethane			97.1		%		70-130	30-APR-15
1,1,2-Trichloroethane			103.5		%		70-130	30-APR-15
1,2-Dibromoethane			101.7		%		70-130	30-APR-15
1,1-Dichloroethane			97.5		%		70-130	30-APR-15
1,1-Dichloroethylene			88.0		%		70-130	30-APR-15
1,2-Dichlorobenzene			98.9		%		70-130	30-APR-15
1,2-Dichloroethane			103.6		%		70-130	30-APR-15
1,2-Dichloropropane			102.3		%		70-130	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	**Water**							
Batch R3182776								
WG2078687-1 LCS								
1,3-Dichlorobenzene			95.0		%		70-130	30-APR-15
1,4-Dichlorobenzene			95.4		%		70-130	30-APR-15
2-Hexanone			96.4		%		60-140	30-APR-15
Acetone			111.7		%		60-140	30-APR-15
Benzene			98.8		%		70-130	30-APR-15
Bromodichloromethane			100.3		%		70-130	30-APR-15
Bromoform			102.3		%		70-130	30-APR-15
Bromomethane			90.5		%		60-140	30-APR-15
Carbon Disulfide			77.6		%		70-130	30-APR-15
Carbon tetrachloride			95.7		%		70-130	30-APR-15
Chlorobenzene			99.6		%		70-130	30-APR-15
Chloroethane			92.9		%		70-130	30-APR-15
Chloroform			101.1		%		70-130	30-APR-15
Chloromethane			89.1		%		60-140	30-APR-15
cis-1,2-Dichloroethylene			97.8		%		70-130	30-APR-15
cis-1,3-Dichloropropene			103.5		%		70-130	30-APR-15
Dibromochloromethane			101.9		%		70-130	30-APR-15
Dichlorodifluoromethane			106.3		%		60-140	30-APR-15
Dichloromethane			97.9		%		70-130	30-APR-15
Ethylbenzene			94.7		%		70-130	30-APR-15
m+p-Xylenes			95.4		%		70-130	30-APR-15
Methyl Ethyl Ketone			102.3		%		60-140	30-APR-15
Methyl Isobutyl Ketone			99.1		%		50-150	30-APR-15
n-Hexane			105.5		%		70-130	30-APR-15
MTBE			102.0		%		70-130	30-APR-15
o-Xylene			97.4		%		70-130	30-APR-15
Styrene			96.8		%		70-130	30-APR-15
Tetrachloroethylene			93.0		%		70-130	30-APR-15
Toluene			96.2		%		70-130	30-APR-15
trans-1,2-Dichloroethylene			92.8		%		70-130	30-APR-15
trans-1,3-Dichloropropene			93.3		%		70-130	30-APR-15
Trichloroethylene			95.7		%		70-130	30-APR-15
Trichlorofluoromethane			98.7		%		60-140	30-APR-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	**Water**							
Batch	**R3182776**							
WG2078687-1	**LCS**							
Vinyl chloride			93.0		%		60-140	30-APR-15
WG2078687-2	**MB**							
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	01-MAY-15
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	01-MAY-15
1,1,1-Trichloroethane			<0.50		ug/L		0.5	01-MAY-15
1,1,2-Trichloroethane			<0.50		ug/L		0.5	01-MAY-15
1,2-Dibromoethane			<0.50		ug/L		0.5	01-MAY-15
1,1-Dichloroethane			<0.50		ug/L		0.5	01-MAY-15
1,1-Dichloroethylene			<0.50		ug/L		0.5	01-MAY-15
1,2-Dichlorobenzene			<0.50		ug/L		0.5	01-MAY-15
1,2-Dichloroethane			<0.50		ug/L		0.5	01-MAY-15
1,2-Dichloropropane			<0.50		ug/L		0.5	01-MAY-15
1,3-Dichlorobenzene			<0.50		ug/L		0.5	01-MAY-15
1,4-Dichlorobenzene			<0.50		ug/L		0.5	01-MAY-15
2-Hexanone			<20		ug/L		20	01-MAY-15
Acetone			<20		ug/L		20	01-MAY-15
Benzene			<0.50		ug/L		0.5	01-MAY-15
Bromodichloromethane			<1.0		ug/L		1	01-MAY-15
Bromoform			<1.0		ug/L		1	01-MAY-15
Bromomethane			<0.50		ug/L		0.5	01-MAY-15
Carbon Disulfide			<1.0		ug/L		1	01-MAY-15
Carbon tetrachloride			<0.50		ug/L		0.5	01-MAY-15
Chlorobenzene			<0.50		ug/L		0.5	01-MAY-15
Chloroethane			<1.0		ug/L		1	01-MAY-15
Chloroform			<1.0		ug/L		1	01-MAY-15
Chloromethane			<1.0		ug/L		1	01-MAY-15
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	01-MAY-15
cis-1,3-Dichloropropene			<0.50		ug/L		0.5	01-MAY-15
Dibromochloromethane			<1.0		ug/L		1	01-MAY-15
Dichlorodifluoromethane			<1.0		ug/L		1	01-MAY-15
Dichloromethane			<2.0		ug/L		2	01-MAY-15
Ethylbenzene			<0.50		ug/L		0.5	01-MAY-15
m+p-Xylenes			<1.0		ug/L		1	01-MAY-15
Methyl Ethyl Ketone			<20		ug/L		20	01-MAY-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	**Water**							
Batch R3182776								
WG2078687-2 MB								
Methyl Isobutyl Ketone			<20		ug/L		20	01-MAY-15
n-Hexane			<0.50		ug/L		0.5	01-MAY-15
MTBE			<0.50		ug/L		0.5	01-MAY-15
o-Xylene			<0.50		ug/L		0.5	01-MAY-15
Styrene			<0.50		ug/L		0.5	01-MAY-15
Tetrachloroethylene			<0.50		ug/L		0.5	01-MAY-15
Toluene			<0.50		ug/L		0.5	01-MAY-15
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	01-MAY-15
trans-1,3-Dichloropropene			<0.50		ug/L		0.5	01-MAY-15
Trichloroethylene			<0.50		ug/L		0.5	01-MAY-15
Trichlorofluoromethane			<1.0		ug/L		1	01-MAY-15
Vinyl chloride			<0.50		ug/L		0.5	01-MAY-15
Surrogate: 1,4-Difluorobenzene			101.8		%		70-130	01-MAY-15
Surrogate: 4-Bromofluorobenzene			94.3		%		70-130	01-MAY-15
Batch R3183850								
WG2080913-4 DUP		**WG2080913-3**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,2-Dibromoethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
2-Hexanone		<20	<20	RPD-NA	ug/L	N/A	30	04-MAY-15
Acetone		<20	<20	RPD-NA	ug/L	N/A	30	04-MAY-15
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Bromodichloromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Bromoform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	**Water**							
Batch R3183850								
WG2080913-4 DUP		**WG2080913-3**						
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Carbon Disulfide		1.5	1.4		ug/L	4.9	30	04-MAY-15
Carbon tetrachloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Chloroethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Chloromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
cis-1,3-Dichloropropene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Dibromochloromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Dichlorodifluoromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Dichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
m+p-Xylenes		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	04-MAY-15
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	04-MAY-15
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
MTBE		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
o-Xylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
trans-1,3-Dichloropropene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Trichlorofluoromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
WG2080913-1 LCS								
1,1,1,2-Tetrachloroethane			91.7		%		70-130	04-MAY-15
1,1,2,2-Tetrachloroethane			94.3		%		70-130	04-MAY-15
1,1,1-Trichloroethane			94.6		%		70-130	04-MAY-15
1,1,2-Trichloroethane			96.8		%		70-130	04-MAY-15
1,2-Dibromoethane			93.9		%		70-130	04-MAY-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	**Water**							
Batch R3183850								
WG2080913-1 LCS								
1,1-Dichloroethane			96.5		%		70-130	04-MAY-15
1,1-Dichloroethylene			91.1		%		70-130	04-MAY-15
1,2-Dichlorobenzene			97.5		%		70-130	04-MAY-15
1,2-Dichloroethane			98.8		%		70-130	04-MAY-15
1,2-Dichloropropane			98.9		%		70-130	04-MAY-15
1,3-Dichlorobenzene			94.9		%		70-130	04-MAY-15
1,4-Dichlorobenzene			97.0		%		70-130	04-MAY-15
2-Hexanone			100.1		%		60-140	04-MAY-15
Acetone			126.1		%		60-140	04-MAY-15
Benzene			99.2		%		70-130	04-MAY-15
Bromodichloromethane			94.7		%		70-130	04-MAY-15
Bromoform			95.2		%		70-130	04-MAY-15
Bromomethane			93.9		%		60-140	04-MAY-15
Carbon Disulfide			85.7		%		70-130	04-MAY-15
Carbon tetrachloride			93.3		%		70-130	04-MAY-15
Chlorobenzene			96.7		%		70-130	04-MAY-15
Chloroethane			98.2		%		70-130	04-MAY-15
Chloroform			100.8		%		70-130	04-MAY-15
Chloromethane			104.2		%		60-140	04-MAY-15
cis-1,2-Dichloroethylene			96.5		%		70-130	04-MAY-15
cis-1,3-Dichloropropene			97.7		%		70-130	04-MAY-15
Dibromochloromethane			89.5		%		70-130	04-MAY-15
Dichlorodifluoromethane			73.0		%		60-140	04-MAY-15
Dichloromethane			98.0		%		70-130	04-MAY-15
Ethylbenzene			90.1		%		70-130	04-MAY-15
m+p-Xylenes			93.2		%		70-130	04-MAY-15
Methyl Ethyl Ketone			116.0		%		60-140	04-MAY-15
Methyl Isobutyl Ketone			105.0		%		50-150	04-MAY-15
n-Hexane			107.7		%		70-130	04-MAY-15
MTBE			96.9		%		70-130	04-MAY-15
o-Xylene			92.1		%		70-130	04-MAY-15
Styrene			91.1		%		70-130	04-MAY-15
Tetrachloroethylene			90.9		%		70-130	04-MAY-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	**Water**							
Batch	**R3183850**							
WG2080913-1	**LCS**							
Toluene			90.7		%		70-130	04-MAY-15
trans-1,2-Dichloroethylene			94.7		%		70-130	04-MAY-15
trans-1,3-Dichloropropene			91.3		%		70-130	04-MAY-15
Trichloroethylene			92.9		%		70-130	04-MAY-15
Trichlorofluoromethane			98.6		%		60-140	04-MAY-15
Vinyl chloride			97.3		%		60-140	04-MAY-15
WG2080913-2	**MB**							
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	04-MAY-15
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	04-MAY-15
1,1,1-Trichloroethane			<0.50		ug/L		0.5	04-MAY-15
1,1,2-Trichloroethane			<0.50		ug/L		0.5	04-MAY-15
1,2-Dibromoethane			<0.50		ug/L		0.5	04-MAY-15
1,1-Dichloroethane			<0.50		ug/L		0.5	04-MAY-15
1,1-Dichloroethylene			<0.50		ug/L		0.5	04-MAY-15
1,2-Dichlorobenzene			<0.50		ug/L		0.5	04-MAY-15
1,2-Dichloroethane			<0.50		ug/L		0.5	04-MAY-15
1,2-Dichloropropane			<0.50		ug/L		0.5	04-MAY-15
1,3-Dichlorobenzene			<0.50		ug/L		0.5	04-MAY-15
1,4-Dichlorobenzene			<0.50		ug/L		0.5	04-MAY-15
2-Hexanone			<20		ug/L		20	04-MAY-15
Acetone			<20		ug/L		20	04-MAY-15
Benzene			<0.50		ug/L		0.5	04-MAY-15
Bromodichloromethane			<1.0		ug/L		1	04-MAY-15
Bromoform			<1.0		ug/L		1	04-MAY-15
Bromomethane			<0.50		ug/L		0.5	04-MAY-15
Carbon Disulfide			<1.0		ug/L		1	04-MAY-15
Carbon tetrachloride			<0.50		ug/L		0.5	04-MAY-15
Chlorobenzene			<0.50		ug/L		0.5	04-MAY-15
Chloroethane			<1.0		ug/L		1	04-MAY-15
Chloroform			<1.0		ug/L		1	04-MAY-15
Chloromethane			<1.0		ug/L		1	04-MAY-15
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	04-MAY-15
cis-1,3-Dichloropropene			<0.50		ug/L		0.5	04-MAY-15
Dibromochloromethane			<1.0		ug/L		1	04-MAY-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	**Water**							
Batch R3183850								
WG2080913-2 MB								
Dichlorodifluoromethane			<1.0		ug/L		1	04-MAY-15
Dichloromethane			<2.0		ug/L		2	04-MAY-15
Ethylbenzene			<0.50		ug/L		0.5	04-MAY-15
m+p-Xylenes			<1.0		ug/L		1	04-MAY-15
Methyl Ethyl Ketone			<20		ug/L		20	04-MAY-15
Methyl Isobutyl Ketone			<20		ug/L		20	04-MAY-15
n-Hexane			<0.50		ug/L		0.5	04-MAY-15
MTBE			<0.50		ug/L		0.5	04-MAY-15
o-Xylene			<0.50		ug/L		0.5	04-MAY-15
Styrene			<0.50		ug/L		0.5	04-MAY-15
Tetrachloroethylene			<0.50		ug/L		0.5	04-MAY-15
Toluene			<0.50		ug/L		0.5	04-MAY-15
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	04-MAY-15
trans-1,3-Dichloropropene			<0.50		ug/L		0.5	04-MAY-15
Trichloroethylene			<0.50		ug/L		0.5	04-MAY-15
Trichlorofluoromethane			<1.0		ug/L		1	04-MAY-15
Vinyl chloride			<0.50		ug/L		0.5	04-MAY-15
Surrogate: 1,4-Difluorobenzene			99.2		%		70-130	04-MAY-15
Surrogate: 4-Bromofluorobenzene			93.0		%		70-130	04-MAY-15
Batch R3183949								
WG2080062-4 DUP		**L1604943-11**						
1,1,1,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,1,2,2-Tetrachloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,1,1-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,1,2-Trichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,2-Dibromoethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,1-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,1-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,2-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,2-Dichloroethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,2-Dichloropropane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,3-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	**Water**							
Batch R3183949								
WG2080062-4 DUP		**L1604943-11**						
2-Hexanone		<20	<20	RPD-NA	ug/L	N/A	30	04-MAY-15
Acetone		<20	<20	RPD-NA	ug/L	N/A	30	04-MAY-15
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Bromodichloromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Bromoform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Carbon Disulfide		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Carbon tetrachloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Chloroethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Chloromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
cis-1,3-Dichloropropene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Dibromochloromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Dichlorodifluoromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Dichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
m+p-Xylenes		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	04-MAY-15
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	04-MAY-15
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
MTBE		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
o-Xylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Toluene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
trans-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
trans-1,3-Dichloropropene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
Trichlorofluoromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	04-MAY-15
Vinyl chloride		<0.50	<0.50	RPD-NA	ug/L	N/A	30	04-MAY-15
WG2080062-1 LCS								

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	**Water**							
Batch	**R3183949**							
WG2080062-1	**LCS**							
1,1,1,2-Tetrachloroethane			98.8		%		70-130	01-MAY-15
1,1,2,2-Tetrachloroethane			102.9		%		70-130	01-MAY-15
1,1,1-Trichloroethane			94.7		%		70-130	01-MAY-15
1,1,2-Trichloroethane			105.6		%		70-130	01-MAY-15
1,2-Dibromoethane			101.6		%		70-130	01-MAY-15
1,1-Dichloroethane			94.8		%		70-130	01-MAY-15
1,1-Dichloroethylene			86.6		%		70-130	01-MAY-15
1,2-Dichlorobenzene			100.8		%		70-130	01-MAY-15
1,2-Dichloroethane			98.7		%		70-130	01-MAY-15
1,2-Dichloropropane			103.0		%		70-130	01-MAY-15
1,3-Dichlorobenzene			94.9		%		70-130	01-MAY-15
1,4-Dichlorobenzene			95.8		%		70-130	01-MAY-15
2-Hexanone			110.8		%		60-140	01-MAY-15
Acetone			103.9		%		60-140	01-MAY-15
Benzene			100.9		%		70-130	01-MAY-15
Bromodichloromethane			92.4		%		70-130	01-MAY-15
Bromoform			93.0		%		70-130	01-MAY-15
Bromomethane			91.8		%		60-140	01-MAY-15
Carbon Disulfide			80.8		%		70-130	01-MAY-15
Carbon tetrachloride			93.8		%		70-130	01-MAY-15
Chlorobenzene			101.7		%		70-130	01-MAY-15
Chloroethane			97.6		%		70-130	01-MAY-15
Chloroform			99.6		%		70-130	01-MAY-15
Chloromethane			94.8		%		60-140	01-MAY-15
cis-1,2-Dichloroethylene			97.7		%		70-130	01-MAY-15
cis-1,3-Dichloropropene			102.5		%		70-130	01-MAY-15
Dibromochloromethane			97.0		%		70-130	01-MAY-15
Dichlorodifluoromethane			107.4		%		60-140	01-MAY-15
Dichloromethane			96.1		%		70-130	01-MAY-15
Ethylbenzene			104.9		%		70-130	01-MAY-15
m+p-Xylenes			104.6		%		70-130	01-MAY-15
Methyl Ethyl Ketone			99.0		%		60-140	01-MAY-15
Methyl Isobutyl Ketone			108.3		%		50-150	01-MAY-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	**Water**							
Batch	**R3183949**							
WG2080062-1	**LCS**							
n-Hexane			108.0		%		70-130	01-MAY-15
MTBE			103.1		%		70-130	01-MAY-15
o-Xylene			107.0		%		70-130	01-MAY-15
Styrene			107.8		%		70-130	01-MAY-15
Tetrachloroethylene			96.8		%		70-130	01-MAY-15
Toluene			100.3		%		70-130	01-MAY-15
trans-1,2-Dichloroethylene			91.5		%		70-130	01-MAY-15
trans-1,3-Dichloropropene			100.4		%		70-130	01-MAY-15
Trichloroethylene			94.4		%		70-130	01-MAY-15
Trichlorofluoromethane			98.4		%		60-140	01-MAY-15
Vinyl chloride			98.1		%		60-140	01-MAY-15
WG2080062-2	**MB**							
1,1,1,2-Tetrachloroethane			<0.50		ug/L		0.5	01-MAY-15
1,1,2,2-Tetrachloroethane			<0.50		ug/L		0.5	01-MAY-15
1,1,1-Trichloroethane			<0.50		ug/L		0.5	01-MAY-15
1,1,2-Trichloroethane			<0.50		ug/L		0.5	01-MAY-15
1,2-Dibromoethane			<0.50		ug/L		0.5	01-MAY-15
1,1-Dichloroethane			<0.50		ug/L		0.5	01-MAY-15
1,1-Dichloroethylene			<0.50		ug/L		0.5	01-MAY-15
1,2-Dichlorobenzene			<0.50		ug/L		0.5	01-MAY-15
1,2-Dichloroethane			<0.50		ug/L		0.5	01-MAY-15
1,2-Dichloropropane			<0.50		ug/L		0.5	01-MAY-15
1,3-Dichlorobenzene			<0.50		ug/L		0.5	01-MAY-15
1,4-Dichlorobenzene			<0.50		ug/L		0.5	01-MAY-15
2-Hexanone			<20		ug/L		20	01-MAY-15
Acetone			<20		ug/L		20	01-MAY-15
Benzene			<0.50		ug/L		0.5	01-MAY-15
Bromodichloromethane			<1.0		ug/L		1	01-MAY-15
Bromoform			<1.0		ug/L		1	01-MAY-15
Bromomethane			<0.50		ug/L		0.5	01-MAY-15
Carbon Disulfide			<1.0		ug/L		1	01-MAY-15
Carbon tetrachloride			<0.50		ug/L		0.5	01-MAY-15
Chlorobenzene			<0.50		ug/L		0.5	01-MAY-15
Chloroethane			<1.0		ug/L		1	01-MAY-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	**Water**							
Batch R3183949								
WG2080062-2 MB								
Chloroform			<1.0		ug/L		1	01-MAY-15
Chloromethane			<1.0		ug/L		1	01-MAY-15
cis-1,2-Dichloroethylene			<0.50		ug/L		0.5	01-MAY-15
cis-1,3-Dichloropropene			<0.50		ug/L		0.5	01-MAY-15
Dibromochloromethane			<1.0		ug/L		1	01-MAY-15
Dichlorodifluoromethane			<1.0		ug/L		1	01-MAY-15
Dichloromethane			<2.0		ug/L		2	01-MAY-15
Ethylbenzene			<0.50		ug/L		0.5	01-MAY-15
m+p-Xylenes			<1.0		ug/L		1	01-MAY-15
Methyl Ethyl Ketone			<20		ug/L		20	01-MAY-15
Methyl Isobutyl Ketone			<20		ug/L		20	01-MAY-15
n-Hexane			<0.50		ug/L		0.5	01-MAY-15
MTBE			<0.50		ug/L		0.5	01-MAY-15
o-Xylene			<0.50		ug/L		0.5	01-MAY-15
Styrene			<0.50		ug/L		0.5	01-MAY-15
Tetrachloroethylene			<0.50		ug/L		0.5	01-MAY-15
Toluene			<0.50		ug/L		0.5	01-MAY-15
trans-1,2-Dichloroethylene			<0.50		ug/L		0.5	01-MAY-15
trans-1,3-Dichloropropene			<0.50		ug/L		0.5	01-MAY-15
Trichloroethylene			<0.50		ug/L		0.5	01-MAY-15
Trichlorofluoromethane			<1.0		ug/L		1	01-MAY-15
Vinyl chloride			<0.50		ug/L		0.5	01-MAY-15
Surrogate: 1,4-Difluorobenzene			99.6		%		70-130	01-MAY-15
Surrogate: 4-Bromofluorobenzene			99.2		%		70-130	01-MAY-15

Quality Control Report

Workorder: L1604943 Report Date: 06-MAY-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8
Contact: BRETON LEMIEUX

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
DLA	Detection Limit adjusted for required dilution
DLM	Detection Limit Adjusted due to sample matrix effects.
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

ALS Environmental
www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L1604943-COFC

COC Number: 14 - 458113

Report To
Company: Bluewater Geoscience
Contact: B. Lemieux
Address:
Phone:

Report Format / Distribution
Select Report Format: ☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report ☒ Yes ☐ No
☒ Criteria on Report - provide details below if box checked
Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax
Email 2

Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)
R ☒ Regular (Standard TAT if received by 3pm)
P ☐ Priority (2-4 business days if received by 3pm)
E ☐ Emergency (1-2 business days if received by 3pm)
E2 ☐ Same day or weekend emergency if received by 10am – contact ALS for surcharge.
Specify Date Required for E2,E or P:

Invoice To Same as Report To ☒ Yes ☐ No
Copy of Invoice with Report ☐ Yes ☒ No
Company:
Contact:

Invoice Distribution
Select Invoice Distribution: ☒ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax
Email 2

Project Information
ALS Quote #: 14275
Job #: BG-530
PO / AFE:
LSD:

Oil and Gas Required Fields (client use)
Approver ID: Cost Center:
GL Account: Routing Code:
Activity Code:
Location:

Analysis Request
Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Lab Work Order # (lab use only): L1604943
ALS Contact: Nellie
Sampler: BL

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report) APR29C	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	VOC (P)	Gen. Chem Phys. (F/P)	Number of Containers
1	OW-1	29/04/15		GW	X	X	7
2	OW-2S						
3	OW-2D						
4	OW-3S						
5	OW-3D						
6	OW-5						
7	OW-6S						
8	OW-6D						
9	OW-7S						
10	OW-7D						
11	OW-8						
12	OW-9S						

Drinking Water (DW) Samples[1] (client use)
Are samples taken from a Regulated DW System? ☐ Yes ☒ No
Are samples for human drinking water use? ☐ Yes ☒ No

Special Instructions / Specify Criteria to add on report (client Use)
Criteria = ODWS
Metals are filtered / pres'd

SAMPLE CONDITION AS RECEIVED (lab use only)
Frozen ☐ SIF Observations Yes ☐ No ☐
Ice packs Yes ☑ No ☐ Custody seal intact Yes ☐ No ☐
Cooling Initiated ☑
INITIAL COOLER TEMPERATURES °C | FINAL COOLER TEMPERATURES °C (8.6°C)

SHIPMENT RELEASE (client use)
Released by: BL Date: APR-29/15 Time:

INITIAL SHIPMENT RECEPTION (lab use only)
Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)
Received by: RH Date: 29-APR-15 Time: 1425

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

GENERAL TERMS AND CONDITIONS:

These terms and conditions are incorporated in and form part of the Agreement between ALS Group's Environmental Division and the party named in the Offer (the "Client").

1. Definitions. Capitalized Terms not defined in these Terms and Conditions have the definitions set out in the other Agreement documents.
2. The Services. ALS will provide the Services to the Client as described in the Offer and in any change of custody form provided with any sample.
3. Prices. ALS may review and change all prices, fees, surcharges or other charges set out in the Agreement if there are changes to ALS's cost beyond ALS's control, including changes in legislative requirements, Client variations of sample numbers and Client requests for changes to standard reporting requirements. Notwithstanding Condition 3, all quotations are reviewed and updated on a yearly basis.
4. Payment Terms. The Client shall pay ALS within 30 days of the invoice date OAC. ALS may, for reasonable business reasons, require the Client to arrange for payment in advance.
5. Quotation Numbers. The Client shall provide the quotation number to ALS (where applicable) to ensure correct pricing.
6. Taxes. Applicable taxes are not included in prices, surcharges and additional fees and will be added at the time of invoicing.
7. Quality Control. ALS has an extensive QA/QC program. Clients' samples are analyzed using approved, referenced procedures followed by thorough data validation prior to reporting the analytical results.
8. Test Results are Not Guaranteed. Results are obtained from analytical measurements that are subject to inherent variability. Measurement results reflect characteristics of submitted test samples at time of analysis. The Client is responsible for informing itself on the limitation of test results and acknowledges that test results are not guaranteed.
9. Standard of Care. ALS will use reasonable care and diligence as required by the laws of the province or territory where the sample is tested.
10. Storage. Where possible, ALS will store samples for 30 days from the date a final report is issued to the Client, after which ALS may discard the samples.
11. Holds. If the Client requests a sample to be placed on hold, ALS will store the sample for 30 days from date of receipt, after which ALS will invoice the Client and discard the sample. Longer hold periods are available upon request.
12. Archives. If the Client requests a sample be archived, ALS will invoice in advance and store the sample for the period requested, after which ALS may discard the sample.
13. Handling Protocol. Legal sample handling protocol must be arranged before samples are collected. ALS charges a minimum 20% surcharge on the list price plus the hourly technologist or chemist rates for legal sample protocol. Additional charges will apply for samples that require storage by ALS.
14. Samples. The quality, condition, content and source of samples stored and tested are not known to ALS except as declared and described on the chain of custody form completed and submitted by the Client and accompanying the sample.
15. Risk of Loss. ALS will use reasonable care to protect samples during storage, however all samples are stored at the Client's risk and the Client is responsible for obtaining appropriate insurance, if desired. The Client acknowledges that during the performance of the Services samples may be altered, lost, damaged or destroyed and the Client releases ALS from any claim the Client may have for any loss or damage to the sample.
16. Environmental. The Client must comply with all applicable environment legislation, including labeling all hazardous samples to comply with WHMIS and TDG regulations, and must provide appropriate safety data sheets (previously referred to as 'MSDS") that include the nature of the hazard and a contact name and phone number to call for information. The Client will indemnify ALS for all loss or damages, including any fine or cost of complying with an order of any government authority, resulting from the Client's breach of this paragraph.
17. Hazardous Materials Disposal. ALS may return, at the Client's cost, hazardous material to the Client for disposal.
18. Hazardous Materials Surcharge. ALS may apply an additional surcharge for handling of hazardous samples or samples with Naturally Occurring Radioactive Materials (NORM), H2S, CN, etc.
19. Sample Containers. ALS may ship sample containers to the Client's location by the most cost effective means using ALS preferred courier suppliers, within the specified project timeline.
20. Additional Charges. ALS may charge the Client (a) its cost for emergency bottle shipments and shipments to and from a remote site, and (b) where pick up and delivery services are provided, subject in each instance to a minimum charge of $25.00.
21. Re-Tests. ALS reserves the right to re-test any samples that remains in its possession. Re-tests requested by the Client may be charged.
22. Waiver. The Client is responsible for making any assessment regarding the suitability of the Services and the intended results for the Client's purposes and waives any claims against ALS it may have as a result of the interpretation of the results. The Client shall indemnify ALS for all claims made by any third party against ALS in respect of all losses however arising from the performance of the Services or the use of any report provided in the performance of the Services.
23. Limitation of Liability. In no event shall ALS be liable for any consequential, indirect, incidental, special, exemplary or punitive damages, whether foreseeable of unforeseeable, (including claims for loss of profits or revenue or losses caused by stoppage of other work or impairment of other assets) incurred by the Client arising out of breach or failure of express of implied warranty, breach of contract, breach of warranty, misrepresentation, negligence, strict liability in tort or otherwise. In any event, the liability of ALS to the Client shall be limited to the cost of testing the sample as requested in the chain of custody form under which the sample was originally deposited. For the purposes of this paragraph and paragraphs 8, 15, 16, 22 and 24, as the applicable, "ALS" includes without limitations its directors, officers, employees and affiliates and the "Client" includes without limitation any third party that may have a claim against ALS through the Client.
24. Notice of Liability. Notwithstanding paragraph 23, ALS shall not be liable to the Client unless the Client provides notice in writing to ALS of such loss or damage, together with full particulars thereof, within 30 days of the Client's receipt of the report of the analysis of the sample giving rise to such liability. The provisions of this paragraph allocate the risk under the Agreement between the Client and ALS, and the fees to be paid by the Client to ALS reflect this allocation of risks and the limitations of liability in this Agreement.
25. Entire Agreement. The Agreement is the entire agreement between the parties and supersedes and takes precedence over any terms and conditions contained in any documentation provided by the Client. ALS's execution of any subsequent documentation from the Client only acknowledges receipt and not acceptance of any terms or conditions therein. If there is a conflict between these terms and conditions and any other Agreement document, these terms and conditions prevail.
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ALS Environmental
www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L1604943-COFC

COC Number: 14 - 458111

Report To
Company: Bluewater Geoscience
Contact: B. Lemieux
Address:
Phone:

Report Format / Distribution
Select Report Format: [X] PDF [X] EXCEL [ ] EDD (DIGITAL)
Quality Control (QC) Report with Report [X] Yes [ ] No
[X] Criteria on Report - provide details below if box checked
Select Distribution: [X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax:
Email 2

Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)
R [X] Regular (Standard TAT if received by 3pm)
P [ ] Priority (2-4 business days if received by 3pm)
E [ ] Emergency (1-2 business days if received by 3pm)
E2 [ ] Same day or weekend emergency if received by 10am – contact ALS for surcharge.
Specify Date Required for E2,E or P:

Invoice To Same as Report To [X] Yes [ ] No
Copy of Invoice with Report [ ] Yes [X] No
Company:
Contact:

Invoice Distribution
Select Invoice Distribution: [X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax:
Email 2

Project Information
ALS Quote #: 14275
Job #: BG-530
PO / AFE:
LSD:

Oil and Gas Required Fields (client use)
Approver ID: Cost Center:
GL Account: Routing Code:
Activity Code:
Location:

ALS Lab Work Order # (lab use only): L1604943
ALS Contact: Nellie
Sampler: BJL

Analysis Request
Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report) APR29C	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	P: DOC	F/P: Gen-Chem-Phys-1	Number of Containers
13	OW-9D	29/04/15		GW	X	X	7
14	OW-10S						
15	OW-10D						
16	OW-12S						
17	OW-12D						
18	OW-13S						
19	OW-13D						
20	OW-15S						
21	OW-15D						
22	OW-16S						
23	OW-16D						
24	OW-18S						

Drinking Water (DW) Samples[1] (client use)
Are samples taken from a Regulated DW System? [ ] Yes [X] No
Are samples for human drinking water use? [ ] Yes [X] No

Special Instructions / Specify Criteria to add on report (client Use)
Criteria = ODWS
Metals are filtered/pres'd

SAMPLE CONDITION AS RECEIVED (lab use only)
Frozen [ ]
Ice packs Yes [X] No [ ]
Cooling Initiated [X]
SIF Observations Yes [ ] No [ ]
Custody seal intact Yes [ ] No [ ]

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
			8.6°C		

SHIPMENT RELEASE (client use)
Released by: BJL Date: Apr 29/15 Time:

INITIAL SHIPMENT RECEPTION (lab use only)
Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)
Received by: RK Date: 29-APR-15 Time: 1425

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

GENERAL TERMS AND CONDITIONS:

These terms and conditions are incorporated in and form part of the Agreement between ALS Group's Environmental Division and the party named in the Offer (the "Client").

1. Definitions. Capitalized Terms not defined in these Terms and Conditions have the definitions set out in the other Agreement documents.
2. The Services. ALS will provide the Services to the Client as described in the Offer and in any change of custody form provided with any sample.
3. Prices. ALS may review and change all prices, fees, surcharges or other charges set out in the Agreement if there are changes to ALS's cost beyond ALS's control, including changes in legislative requirements, Client variations of sample numbers and Client requests for changes to standard reporting requirements. Notwithstanding Condition 3, all quotations are reviewed and updated on a yearly basis.
4. Payment Terms. The Client shall pay ALS within 30 days of the invoice date OAC. ALS may, for reasonable business reasons, require the Client to arrange for payment in advance.
5. Quotation Numbers. The Client shall provide the quotation number to ALS (where applicable) to ensure correct pricing.
6. Taxes. Applicable taxes are not included in prices, surcharges and additional fees and will be added at the time of invoicing.
7. Quality Control. ALS has an extensive QA/QC program. Clients' samples are analyzed using approved, referenced procedures followed by thorough data validation prior to reporting the analytical results.
8. Test Results are Not Guaranteed. Results are obtained from analytical measurements that are subject to inherent variability. Measurement results reflect characteristics of submitted test samples at time of analysis. The Client is responsible for informing itself on the limitation of test results and acknowledges that test results are not guaranteed.
9. Standard of Care. ALS will use reasonable care and diligence as required by the laws of the province or territory where the sample is tested.
10. Storage. Where possible, ALS will store samples for 30 days from the date a final report is issued to the Client, after which ALS may discard the samples.
11. Holds. If the Client requests a sample to be placed on hold, ALS will store the sample for 30 days from date of receipt, after which ALS will invoice the Client and discard the sample. Longer hold periods are available upon request.
12. Archives. If the Client requests a sample be archived, ALS will invoice in advance and store the sample for the period requested, after which ALS may discard the sample.
13. Handling Protocol. Legal sample handling protocol must be arranged before samples are collected. ALS charges a minimum 20% surcharge on the list price plus the hourly technologist or chemist rates for legal sample protocol. Additional charges will apply for samples that require storage by ALS.
14. Samples. The quality, condition, content and source of samples stored and tested are not known to ALS except as declared and described on the chain of custody form completed and submitted by the Client and accompanying the sample.
15. Risk of Loss. ALS will use reasonable care to protect samples during storage, however all samples are stored at the Client's risk and the Client is responsible for obtaining appropriate insurance, if desired. The Client acknowledges that during the performance of the Services samples may be altered, lost, damaged or destroyed and the Client releases ALS from any claim the Client may have for any loss or damage to the sample.
16. Environmental. The Client must comply with all applicable environment legislation, including labeling all hazardous samples to comply with WHMIS and TDG regulations, and must provide appropriate safety data sheets (previously referred to as 'MSDS") that include the nature of the hazard and a contact name and phone number to call for information. The Client will indemnify ALS for all loss or damages, including any fine or cost of complying with an order of any government authority, resulting from the Client's breach of this paragraph.
17. Hazardous Materials Disposal. ALS may return, at the Client's cost, hazardous material to the Client for disposal.
18. Hazardous Materials Surcharge. ALS may apply an additional surcharge for handling of hazardous samples or samples with Naturally Occurring Radioactive Materials (NORM), H2S, CN, etc.
19. Sample Containers. ALS may ship sample containers to the Client's location by the most cost effective means using ALS preferred courier suppliers, within the specified project timeline.
20. Additional Charges. ALS may charge the Client (a) its cost for emergency bottle shipments and shipments to and from a remote site, and (b) where pick up and delivery services are provided, subject in each instance to a minimum charge of $25.00.
21. Re-Tests. ALS reserves the right to re-test any samples that remains in its possession. Re-tests requested by the Client may be charged.
22. Waiver. The Client is responsible for making any assessment regarding the suitability of the Services and the intended results for the Client's purposes and waives any claims against ALS it may have as a result of the interpretation of the results. The Client shall indemnify ALS for all claims made by any third party against ALS in respect of all losses however arising from the performance of the Services or the use of any report provided in the performance of the Services.
23. Limitation of Liability. In no event shall ALS be liable for any consequential, indirect, incidental, special, exemplary or punitive damages, whether foreseeable of unforeseeable, (including claims for loss of profits or revenue or losses caused by stoppage of other work or impairment of other assets) incurred by the Client arising out of breach or failure of express of implied warranty, breach of contract, breach of warranty, misrepresentation, negligence, strict liability in tort or otherwise. In any event, the liability of ALS to the Client shall be limited to the cost of testing the sample as requested in the chain of custody form under which the sample was originally deposited. For the purposes of this paragraph and paragraphs 8, 15, 16, 22 and 24, as the applicable, "ALS" includes without limitations its directors, officers, employees and affiliates and the "Client" includes without limitation any third party that may have a claim against ALS through the Client.
24. Notice of Liability. Notwithstanding paragraph 23, ALS shall not be liable to the Client unless the Client provides notice in writing to ALS of such loss or damage, together with full particulars thereof, within 30 days of the Client's receipt of the report of the analysis of the sample giving rise to such liability. The provisions of this paragraph allocate the risk under the Agreement between the Client and ALS, and the fees to be paid by the Client to ALS reflect this allocation of risks and the limitations of liability in this Agreement.
25. Entire Agreement. The Agreement is the entire agreement between the parties and supersedes and takes precedence over any terms and conditions contained in any documentation provided by the Client. ALS's execution of any subsequent documentation from the Client only acknowledges receipt and not acceptance of any terms or conditions therein. If there is a conflict between these terms and conditions and any other Agreement document, these terms and conditions prevail.
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ALS Environmental
www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L1604943-COFC

COC Number: 14 - 458112

Report To
Company: Bluewater Geoscience
Contact: B. Lomisux
Address:
Phone:

Report Format / Distribution
Select Report Format: [X] PDF [X] EXCEL [ ] EDD (DIGITAL)
Quality Control (QC) Report with Report [X] Yes [ ] No
[X] Criteria on Report - provide details below if box checked
Select Distribution: [X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax
Email 2

Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)
R [X] Regular (Standard TAT if received by 3pm)
P [ ] Priority (2-4 business days if received by 3pm)
E [ ] Emergency (1-2 business days if received by 3pm)
E2 [ ] Same day or weekend emergency if received by 10am – contact ALS for surcharge.
Specify Date Required for E2,E or P:

Invoice To Same as Report To [X] Yes [ ] No
Copy of Invoice with Report [ ] Yes [X] No
Company:
Contact:

Invoice Distribution
Select Invoice Distribution: [X] EMAIL [ ] MAIL [ ] FAX
Email 1 or Fax
Email 2

Project Information
ALS Quote #: 14275
Job #: BG-530
PO / AFE:
LSD:

Oil and Gas Required Fields (client use)
Approver ID: Cost Center:
GL Account: Routing Code:
Activity Code:
Location:

ALS Lab Work Order # (lab use only): L1604943
ALS Contact: Nellie
Sampler: BL

Analysis Request
Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report) APR29C	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	P: VOC	F/P: Gen. Chem. Pkg. 1	Number of Containers
25	OW-18D	29/04/15		GW	X	X	7
26	OW-19S						
27	OW-20S						
28	OW-20D						
29	OW-21S						
30	OW-21D						
31	SW-3			Surface water			
~~32~~							
~~33~~							
~~34~~							
~~35~~							
~~36~~							

Drinking Water (DW) Samples[1] (client use)
Are samples taken from a Regulated DW System? [ ] Yes [X] No
Are samples for human drinking water use? [ ] Yes [X] No

Special Instructions / Specify Criteria to add on report (client Use)
Criteria = OOWS
Metals are filt'd / pres'd

SAMPLE CONDITION AS RECEIVED (lab use only)
Frozen [ ] SIF Observations Yes [ ] No [ ]
Ice packs Yes [X] No [ ] Custody seal intact Yes [ ] No [ ]
Cooling Initiated [ ]

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
			8.6	5.4	8.4

SHIPMENT RELEASE (client use)
Released by: BL Date: APR 29/15 Time:

INITIAL SHIPMENT RECEPTION (lab use only)
Received by: Date: Time:

FINAL SHIPMENT RECEPTION (lab use only)
Received by: RM Date: 29 APR 15 Time: 1425

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WHITE - LABORATORY COPY YELLOW - CLIENT COPY

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BLUEWATER GEOSCIENCE
ATTN: BRETON LEMIEUX
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Date Received: 04-NOV-15
Report Date: 11-NOV-15 14:51 (MT)
Version: FINAL

Client Phone: 519-744-4123

Certificate of Analysis

Lab Work Order #: L1697979

Project P.O. #: NOT SUBMITTED
Job Reference: BG-530
C of C Numbers: 14-397022, 14-464576, 14-464579
Legal Site Desc:

N. Gudzak

Nellie Gudzak
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS	GUIDELINES	Analyzed	Batch
L1697979-1 OW-1								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER								
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	406		10	mg/L		30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	<0.050		0.050	mg/L			05-NOV-15	R3306633
Chloride (Cl)	2.12		0.50	mg/L		250	05-NOV-15	R3306991
Color, Apparent	46.3		1.0	C.U.		** 5	04-NOV-15	R3306329
Conductivity	721		3.0	umhos/cm			04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS								
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit			04-NOV-15	R3305382
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.033		0.010	mg/L	1		04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Boron (B)-Dissolved	<0.050		0.050	mg/L	5		04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		04-NOV-15	R3306221
Calcium (Ca)-Dissolved	97.8		0.50	mg/L			04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00080		0.00050	mg/L	0.05		04-NOV-15	R3306221
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L			04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L		1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	0.060		0.050	mg/L		0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	33.5		0.50	mg/L			04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.0047		0.0010	mg/L		0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			04-NOV-15	R3306221
Potassium (K)-Dissolved	<1.0		1.0	mg/L			04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		04-NOV-15	R3306221
Silicon (Si)-Dissolved	5.1		1.0	mg/L			04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			04-NOV-15	R3306221
Sodium (Na)-Dissolved	7.49		0.50	mg/L	20	200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.133		0.0010	mg/L			04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L			04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L			04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02		04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0077		0.0030	mg/L		5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L			04-NOV-15	R3306221
Fluoride (F)	0.028		0.020	mg/L	1.5		05-NOV-15	R3306991
Hardness (as CaCO3)	382		10	mg/L		** 80-100	05-NOV-15	
Nitrate (as N)	0.026		0.020	mg/L	10		05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1		05-NOV-15	R3306991

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Ontario DW Std O.Reg 169/03 JUNE 2007

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-1 OW-1									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Sulfate (SO4)	8.69		0.30	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	360	DLDS	20	mg/L			500	05-NOV-15	R3306559
Turbidity	62.2		0.10	NTU		**	5	04-NOV-15	R3305708
pH	7.78		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-2 OW-2S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	649	DLHC	20	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	<0.050		0.050	mg/L				05-NOV-15	R3306633
Chloride (Cl)	<2.5	DLM	2.5	mg/L			250	05-NOV-15	R3306991
Color, Apparent	31.0		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	1240		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	0.030		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305382
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.064		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	0.443		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	148		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00062		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00050		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	0.401		0.050	mg/L		**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	69.2		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.162		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0021		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	1.4		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	8.5		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	14.3		0.50	mg/L	20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.201		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-2 OW-2S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by CRC ICPMS									
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0046		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	<0.10	DLM	0.10	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	655		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	<0.10	DLM	0.10	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.050	DLM	0.050	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	73.6	DLM	1.5	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	678	DLDS	20	mg/L		**	500	05-NOV-15	R3306559
Turbidity	88.5		0.10	NTU		**	5	04-NOV-15	R3305708
pH	7.47		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-3 OW-2D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	546	DLHC	20	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	3.45	DLHC	0.10	mg/L				05-NOV-15	R3306633
Chloride (Cl)	37.9	DLM	2.5	mg/L			250	05-NOV-15	R3306991
Color, Apparent	85.5		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	1320		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305382
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0026		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.110		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	0.548		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	134		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00063		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00265		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	1.98		0.050	mg/L		**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	78.9		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.658		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1697979-3 OW-2D								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Dissolved Metals in Water by CRC ICPMS								
Nickel (Ni)-Dissolved	0.0079		0.0020	mg/L			04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			04-NOV-15	R3306221
Potassium (K)-Dissolved	10.1		1.0	mg/L			04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		04-NOV-15	R3306221
Silicon (Si)-Dissolved	6.4		1.0	mg/L			04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			04-NOV-15	R3306221
Sodium (Na)-Dissolved	26.4		0.50	mg/L	** 20	200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.277		0.0010	mg/L			04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L			04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L			04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02		04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0121		0.0030	mg/L		5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L			04-NOV-15	R3306221
Fluoride (F)	<0.10	DLM	0.10	mg/L	1.5		05-NOV-15	R3306991
Hardness (as CaCO3)	661		10	mg/L		** 80-100	05-NOV-15	
Nitrate (as N)	<0.10	DLM	0.10	mg/L	10		05-NOV-15	R3306991
Nitrite (as N)	<0.050	DLM	0.050	mg/L	1		05-NOV-15	R3306991
Sulfate (SO4)	179	DLM	1.5	mg/L		500	05-NOV-15	R3306991
Total Dissolved Solids	679	DLDS	20	mg/L		** 500	05-NOV-15	R3306559
Turbidity	38.6		0.10	NTU		** 5	04-NOV-15	R3305708
pH	7.58		0.10	pH units		6.5-8.5	04-NOV-15	R3305833
L1697979-4 OW-3S								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	379		10	mg/L		30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	<0.050		0.050	mg/L			05-NOV-15	R3306633
Chloride (Cl)	<0.50		0.50	mg/L		250	05-NOV-15	R3306991
Color, Apparent	105		1.0	C.U.		** 5	04-NOV-15	R3306329
Conductivity	704		3.0	umhos/cm			04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS								
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit			04-NOV-15	R3305382
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.065		0.010	mg/L	1		04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-4 OW-3S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by CRC ICPMS									
Boron (B)-Dissolved	0.096		0.050	mg/L	5			05-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	120		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00124		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	0.993		0.050	mg/L		**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	30.5		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.377		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	3.5		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	4.2		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	9.12		0.50	mg/L	20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.214		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0038		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	<0.020		0.020	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	424		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	0.064		0.020	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	1.76		0.30	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	364	DLDS	20	mg/L			500	05-NOV-15	R3306559
Turbidity	>1000		0.10	NTU			5	04-NOV-15	R3305708
pH	7.82		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-5 OW-3D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	721	DLHC	20	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	20.4	DLHC	0.50	mg/L				05-NOV-15	R3306633
Chloride (Cl)	59.8	DLM	2.5	mg/L			250	05-NOV-15	R3306991
Color, Apparent	161		1.0	C.U.		**	5	04-NOV-15	R3306329

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS		GUIDELINES	Analyzed	Batch
L1697979-5 OW-3D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER									
General Chemistry Package 1-Groundwater									
Conductivity	1540		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	0.011		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305382
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0052		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.265		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	0.514		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	155		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00121		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00056		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	13.1		0.050	mg/L		**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	48.4		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.768		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0035		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	16.7		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	0.00074		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	5.7		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	41.0		0.50	mg/L	** 20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.459		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	<0.0030		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	<0.10		0.10	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	587		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	<0.10	DLM	0.10	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	0.091	DLM	0.050	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	42.8	DLM	1.5	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	802	DLDS	20	mg/L		**	500	05-NOV-15	R3306559
Turbidity	323		0.10	NTU		**	5	04-NOV-15	R3305708
pH	7.19		0.10	pH units			6.5-8.5	04-NOV-15	R3305833

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1697979-5 OW-3D								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
L1697979-6 OW-5								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	428		10	mg/L		30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	<0.050		0.050	mg/L			05-NOV-15	R3306633
Chloride (Cl)	11.1		0.50	mg/L		250	05-NOV-15	R3306991
Color, Apparent	150		1.0	C.U.		** 5	04-NOV-15	R3306329
Conductivity	775		3.0	umhos/cm			04-NOV-15	R3305841
Phosphate-P (ortho)	0.0033		0.0030	mg/L			06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS								
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit			04-NOV-15	R3305382
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.027		0.010	mg/L	1		04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Boron (B)-Dissolved	0.109		0.050	mg/L	5		05-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		04-NOV-15	R3306221
Calcium (Ca)-Dissolved	116		0.50	mg/L			04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00081		0.00050	mg/L	0.05		04-NOV-15	R3306221
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L			04-NOV-15	R3306221
Copper (Cu)-Dissolved	0.0011		0.0010	mg/L		1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	0.250		0.050	mg/L		0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	37.5		0.50	mg/L			04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.0352		0.0010	mg/L		0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			04-NOV-15	R3306221
Potassium (K)-Dissolved	3.4		1.0	mg/L			04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		04-NOV-15	R3306221
Silicon (Si)-Dissolved	4.3		1.0	mg/L			04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			04-NOV-15	R3306221
Sodium (Na)-Dissolved	8.12		0.50	mg/L	20	200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.162		0.0010	mg/L			04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L			04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L			04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02		04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0032		0.0030	mg/L		5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L			04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-6 OW-5									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Fluoride (F)	0.025		0.020	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	445		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	0.522		0.020	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	16.3		0.30	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	412	DLDS	20	mg/L			500	05-NOV-15	R3306559
Turbidity	982		0.10	NTU		**	5	04-NOV-15	R3305708
pH	7.95		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-7 OW-6S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	307		10	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	<0.050		0.050	mg/L				05-NOV-15	R3306633
Chloride (Cl)	0.84		0.50	mg/L			250	05-NOV-15	R3306991
Color, Apparent	250	DLHC	2.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	539		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305382
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.011		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	<0.050		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	81.5		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00079		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	0.313		0.050	mg/L		**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	22.2		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.0459		0.0010	mg/L			0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	<1.0		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	2.7		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-7 OW-6S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by CRC ICPMS									
Sodium (Na)-Dissolved	0.86		0.50	mg/L	20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.0783		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0034		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	0.038		0.020	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	295		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	0.022		0.020	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	2.38		0.30	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	293	DLDS	20	mg/L			500	05-NOV-15	R3306559
Turbidity	>1000		0.10	NTU			5	04-NOV-15	R3305708
pH	7.80		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-8 OW-6D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	309		10	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	0.204		0.050	mg/L				05-NOV-15	R3306633
Chloride (Cl)	0.87		0.50	mg/L			250	05-NOV-15	R3306991
Color, Apparent	154		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	557		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305382
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0034		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.016		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	<0.050		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	84.1		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00071		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00071		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-8 OW-6D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by CRC ICPMS									
Iron (Fe)-Dissolved	2.38		0.050	mg/L		**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	0.0012		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	25.0		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.190		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	<1.0		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	3.4		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	1.61		0.50	mg/L	20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.0858		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0096		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	0.036		0.020	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	313		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	<0.020		0.020	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	4.93		0.30	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	291	DLDS	20	mg/L			500	05-NOV-15	R3306559
Turbidity	47.5		0.10	NTU		**	5	04-NOV-15	R3305708
pH	7.65		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-9 OW-7S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	487		20	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	0.232		0.050	mg/L				05-NOV-15	R3306633
Chloride (Cl)	23.4	DLM	2.5	mg/L			250	05-NOV-15	R3306991
Color, Apparent	228	DLHC	2.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	1130		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305382

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-9 OW-7S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by CRC ICPMS									
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0088		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.096		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	0.218		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	164		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00093		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00105		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	0.0011		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	6.49		0.050	mg/L		**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	51.4		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.213		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0030		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	5.5		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	0.00042		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	5.6		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	17.9		0.50	mg/L	20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.283		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0674		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	<0.10	DLM	0.10	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	620		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	0.95	DLM	0.10	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.050	DLM	0.050	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	115	DLM	1.5	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	745	DLDS	20	mg/L		**	500	05-NOV-15	R3306559
Turbidity	>1000		0.10	NTU			5	04-NOV-15	R3305708
pH	7.36		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-10 OW-7D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS		GUIDELINES	Analyzed	Batch
L1697979-10 OW-7D Sampled By: BJL on 04-NOV-15 Matrix: WATER									
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	521	DLHC	20	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	9.79	DLHC	0.50	mg/L				05-NOV-15	R3306633
Chloride (Cl)	52.7	DLM	2.5	mg/L			250	05-NOV-15	R3306991
Color, Apparent	163		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	1410		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305382
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0032		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.115		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	0.494		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	125		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00070		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00392		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	5.69		0.050	mg/L		**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	0.0013		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	68.9		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.197		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0088		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	22.0		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	6.0		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	38.1		0.50	mg/L	** 20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.355		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	0.00042		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0735		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	<0.10	DLM	0.10	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	596		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	<0.10	DLM	0.10	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.050	DLM	0.050	mg/L	1			05-NOV-15	R3306991

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1697979-10 OW-7D								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Sulfate (SO4)	117	DLM	1.5	mg/L		500	05-NOV-15	R3306991
Total Dissolved Solids	783	DLDS	20	mg/L		** 500	05-NOV-15	R3306559
Turbidity	70.7		0.10	NTU		** 5	04-NOV-15	R3305708
pH	7.70		0.10	pH units		6.5-8.5	04-NOV-15	R3305833
L1697979-11 OW-8								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	463	DLHC	20	mg/L		30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	<0.050		0.050	mg/L			05-NOV-15	R3306633
Chloride (Cl)	18.7	DLM	2.5	mg/L		250	05-NOV-15	R3306991
Color, Apparent	108		1.0	C.U.		** 5	04-NOV-15	R3306329
Conductivity	2090		3.0	umhos/cm			04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS								
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit			04-NOV-15	R3305382
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.037		0.010	mg/L	1		04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Boron (B)-Dissolved	0.464		0.050	mg/L	5		04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		04-NOV-15	R3306221
Calcium (Ca)-Dissolved	267		0.50	mg/L			04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00067		0.00050	mg/L	0.05		04-NOV-15	R3306221
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L			04-NOV-15	R3306221
Copper (Cu)-Dissolved	0.0022		0.0010	mg/L		1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	<0.050		0.050	mg/L		0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	129	DLHC	0.50	mg/L			05-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.0042		0.0010	mg/L		0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			04-NOV-15	R3306221
Potassium (K)-Dissolved	6.5		1.0	mg/L			04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		04-NOV-15	R3306221
Silicon (Si)-Dissolved	4.7		1.0	mg/L			04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			04-NOV-15	R3306221
Sodium (Na)-Dissolved	21.5		0.50	mg/L	** 20	200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.431		0.0010	mg/L			04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L			04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-11 OW-8									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by CRC ICPMS									
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0057		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	<0.10	DLM	0.10	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	1200		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	1.35	DLM	0.10	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.050	DLM	0.050	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	828	DLM	1.5	mg/L		**	500	05-NOV-15	R3306991
Total Dissolved Solids	1430	DLDS	20	mg/L		**	500	05-NOV-15	R3306559
Turbidity	155		0.10	NTU		**	5	04-NOV-15	R3305708
pH	7.39		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-12 OW-9S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	399		10	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	0.065		0.050	mg/L				05-NOV-15	R3306633
Chloride (Cl)	39.0		0.50	mg/L			250	05-NOV-15	R3306991
Color, Apparent	175		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	793		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305382
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.033		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	<0.050		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	105		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00059		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	0.0035		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	0.288		0.050	mg/L			0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	25.2		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.0428		0.0010	mg/L			0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS	GUIDELINES	Analyzed	Batch
L1697979-12 OW-9S								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER								
General Chemistry Package 1-Groundwater								
Dissolved Metals in Water by CRC ICPMS								
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			04-NOV-15	R3306221
Potassium (K)-Dissolved	2.3		1.0	mg/L			04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		04-NOV-15	R3306221
Silicon (Si)-Dissolved	3.5		1.0	mg/L			04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			04-NOV-15	R3306221
Sodium (Na)-Dissolved	31.4		0.50	mg/L	** 20	200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.162		0.0010	mg/L			04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L			04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L			04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02		04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0079		0.0030	mg/L		5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L			04-NOV-15	R3306221
Fluoride (F)	0.026		0.020	mg/L	1.5		05-NOV-15	R3306991
Hardness (as CaCO3)	365		10	mg/L		** 80-100	05-NOV-15	
Nitrate (as N)	0.024		0.020	mg/L	10		05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1		05-NOV-15	R3306991
Sulfate (SO4)	10.0		0.30	mg/L		500	05-NOV-15	R3306991
Total Dissolved Solids	435	DLDS	20	mg/L		500	05-NOV-15	R3306559
Turbidity	>1000		0.10	NTU		5	04-NOV-15	R3305708
pH	7.66		0.10	pH units		6.5-8.5	04-NOV-15	R3305833
L1697979-13 OW-9D								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER								
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	405		10	mg/L		30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	3.33	DLHC	0.10	mg/L			05-NOV-15	R3306633
Chloride (Cl)	31.1		0.50	mg/L		250	05-NOV-15	R3306991
Color, Apparent	88.8		1.0	C.U.		** 5	04-NOV-15	R3306329
Conductivity	820		3.0	umhos/cm			04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS								
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit			04-NOV-15	R3305382
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		04-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0022		0.0010	mg/L	0.025		04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.067		0.010	mg/L	1		04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221

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** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-13 OW-9D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by CRC ICPMS									
Boron (B)-Dissolved	0.157		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	98.2		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00063		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00125		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	0.0015		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	2.61		0.050	mg/L		**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	37.1		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.251		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0026		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	11.1		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	4.4		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	17.6		0.50	mg/L	20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.201		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0079		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	0.056		0.020	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	398		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	<0.020		0.020	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	15.8		0.30	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	425	DLDS	20	mg/L			500	05-NOV-15	R3306559
Turbidity	53.6		0.10	NTU		**	5	04-NOV-15	R3305708
pH	7.59		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-14 OW-10S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	516	DLHC	20	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	3.24	DLHC	0.10	mg/L				05-NOV-15	R3306633
Chloride (Cl)	32.1	DLM	2.5	mg/L			250	05-NOV-15	R3306991
Color, Apparent	131		1.0	C.U.		**	5	04-NOV-15	R3306329

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits				Analyzed	Batch
L1697979-14 OW-10S										
Sampled By: BJL on 04-NOV-15										
Matrix: WATER					STANDARDS		GUIDELINES			
General Chemistry Package 1-Groundwater										
Conductivity	1150		3.0	umhos/cm					04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L					06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS										
Aluminum (Al)-Dissolved	0.227		0.010	mg/L			**	0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit					04-NOV-15	R3305382
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L		0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0012		0.0010	mg/L		0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.099		0.010	mg/L		1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L					04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L					04-NOV-15	R3306221
Boron (B)-Dissolved	0.321		0.050	mg/L		5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L		0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	136		0.50	mg/L					04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00112		0.00050	mg/L		0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00281		0.00050	mg/L					04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L				1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	0.688		0.050	mg/L			**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	0.0017		0.0010	mg/L		0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	61.5		0.50	mg/L					04-NOV-15	R3306221
Manganese (Mn)-Dissolved	1.08		0.0010	mg/L			**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L					04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0096		0.0020	mg/L					04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L					04-NOV-15	R3306221
Potassium (K)-Dissolved	4.8		1.0	mg/L					04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L		0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	5.6		1.0	mg/L					04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L					04-NOV-15	R3306221
Sodium (Na)-Dissolved	26.7		0.50	mg/L	**	20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.222		0.0010	mg/L					04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L					04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L					04-NOV-15	R3306221
Titanium (Ti)-Dissolved	0.0097		0.0020	mg/L					04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L					04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L		0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L					04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0159		0.0030	mg/L				5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L					04-NOV-15	R3306221
Fluoride (F)	<0.10	DLM	0.10	mg/L		1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	592		10	mg/L			**	80-100	05-NOV-15	
Nitrate (as N)	<0.10	DLM	0.10	mg/L		10			05-NOV-15	R3306991
Nitrite (as N)	<0.050	DLM	0.050	mg/L		1			05-NOV-15	R3306991
Sulfate (SO4)	85.0	DLM	1.5	mg/L				500	05-NOV-15	R3306991
Total Dissolved Solids	570	DLDS	20	mg/L			**	500	05-NOV-15	R3306559
Turbidity	>1000		0.10	NTU				5	04-NOV-15	R3305708
pH	7.54		0.10	pH units				6.5-8.5	04-NOV-15	R3305833

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1697979-14 OW-10S								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
L1697979-15 OW-10D								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	558	DLHC	20	mg/L		30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	5.97	DLHC	0.50	mg/L			05-NOV-15	R3306633
Chloride (Cl)	39.3	DLM	2.5	mg/L		250	05-NOV-15	R3306991
Color, Apparent	65.5		1.0	C.U.		** 5	04-NOV-15	R3306329
Conductivity	1270		3.0	umhos/cm			04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS								
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit			04-NOV-15	R3305382
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		04-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0032		0.0010	mg/L	0.025		04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.191		0.010	mg/L	1		04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Boron (B)-Dissolved	0.439		0.050	mg/L	5		04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		04-NOV-15	R3306221
Calcium (Ca)-Dissolved	133		0.50	mg/L			04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00094		0.00050	mg/L	0.05		04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00688		0.00050	mg/L			04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L		1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	2.85		0.050	mg/L		** 0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	66.0		0.50	mg/L			04-NOV-15	R3306221
Manganese (Mn)-Dissolved	1.69		0.0010	mg/L		** 0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0186		0.0020	mg/L			04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			04-NOV-15	R3306221
Potassium (K)-Dissolved	8.3		1.0	mg/L			04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		04-NOV-15	R3306221
Silicon (Si)-Dissolved	6.5		1.0	mg/L			04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			04-NOV-15	R3306221
Sodium (Na)-Dissolved	30.9		0.50	mg/L	** 20	200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.275		0.0010	mg/L			04-NOV-15	R3306221
Thallium (Tl)-Dissolved	0.00084		0.00030	mg/L			04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L			04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02		04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0717		0.0030	mg/L		5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L			04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-15 OW-10D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Fluoride (F)	<0.10	DLM	0.10	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	603		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	<0.10	DLM	0.10	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.050	DLM	0.050	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	105	DLM	1.5	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	686	DLDS	20	mg/L		**	500	05-NOV-15	R3306559
Turbidity	55.4		0.10	NTU		**	5	04-NOV-15	R3305708
pH	7.73		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-16 OW-12S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	430		10	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	0.164		0.050	mg/L				05-NOV-15	R3306633
Chloride (Cl)	16.0		0.50	mg/L			250	05-NOV-15	R3306991
Color, Apparent	195		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	758		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305386
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.025		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	0.082		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	108		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00078		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00059		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	0.0016		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	0.073		0.050	mg/L			0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	34.3		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.348		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0032		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	<1.0		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	3.8		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1697979-16 OW-12S								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Dissolved Metals in Water by CRC ICPMS								
Sodium (Na)-Dissolved	11.3		0.50	mg/L	20	200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.106		0.0010	mg/L			04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L			04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L			04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02		04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0080		0.0030	mg/L		5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L			04-NOV-15	R3306221
Fluoride (F)	0.036		0.020	mg/L	1.5		05-NOV-15	R3306991
Hardness (as CaCO3)	410		10	mg/L		** 80-100	05-NOV-15	
Nitrate (as N)	0.028		0.020	mg/L	10		05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1		05-NOV-15	R3306991
Sulfate (SO4)	17.0		0.30	mg/L		500	05-NOV-15	R3306991
Total Dissolved Solids	384	DLDS	20	mg/L		500	05-NOV-15	R3306559
Turbidity	>1000		0.10	NTU		5	04-NOV-15	R3305708
pH	7.63		0.10	pH units		6.5-8.5	04-NOV-15	R3305833
L1697979-17 OW-12D								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	466	DLHC	20	mg/L		30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	0.062		0.050	mg/L			05-NOV-15	R3306633
Chloride (Cl)	39.6		0.50	mg/L		250	05-NOV-15	R3306991
Color, Apparent	18.3		1.0	C.U.		** 5	04-NOV-15	R3306329
Conductivity	1000		3.0	umhos/cm			04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS								
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit			04-NOV-15	R3305386
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.031		0.010	mg/L	1		04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Boron (B)-Dissolved	0.108		0.050	mg/L	5		04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	0.000118		0.000090	mg/L	0.005		04-NOV-15	R3306221
Calcium (Ca)-Dissolved	122		0.50	mg/L			04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00066		0.00050	mg/L	0.05		04-NOV-15	R3306221
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L			04-NOV-15	R3306221
Copper (Cu)-Dissolved	0.0011		0.0010	mg/L		1	04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-17 OW-12D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by CRC ICPMS									
Iron (Fe)-Dissolved	<0.050		0.050	mg/L			0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	40.3		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.244		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0037		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	<1.0		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	4.4		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	17.0		0.50	mg/L	20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.119		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0208		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	0.028		0.020	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	471		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	0.088		0.020	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	22.6		0.30	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	522	DLDS	20	mg/L		**	500	05-NOV-15	R3306559
Turbidity	32.6		0.10	NTU		**	5	04-NOV-15	R3305708
pH	7.50		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-18 OW-13S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	380		10	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	<0.050		0.050	mg/L				05-NOV-15	R3306633
Chloride (Cl)	1.07		0.50	mg/L			250	05-NOV-15	R3306991
Color, Apparent	115		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	659		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305386

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-18 OW-13S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by CRC ICPMS									
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.020		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	<0.050		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	101		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	<0.00050		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	0.305		0.050	mg/L		**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	30.8		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.0983		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	<1.0		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	2.9		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	3.61		0.50	mg/L	20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.119		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0048		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	0.038		0.020	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	380		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	<0.020		0.020	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	14.6		0.30	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	340	DLDS	20	mg/L			500	07-NOV-15	R3308603
Turbidity	>1000		0.10	NTU			5	04-NOV-15	R3305708
pH	7.69		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-19 OW-13D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-19 OW-13D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	464		10	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	1.46		0.050	mg/L				05-NOV-15	R3306633
Chloride (Cl)	9.07		0.50	mg/L			250	05-NOV-15	R3306991
Color, Apparent	192		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	943		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305386
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0020		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.056		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	0.107		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	129		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00098		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	2.25		0.050	mg/L		**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	42.8		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.219		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0021		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	2.8		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	3.8		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	9.40		0.50	mg/L	20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.218		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0623		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	0.028		0.020	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	498		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	0.047		0.020	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1			05-NOV-15	R3306991

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-19 OW-13D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Sulfate (SO4)	106		0.30	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	536	DLDS	20	mg/L		**	500	07-NOV-15	R3308603
Turbidity	522		0.10	NTU		**	5	04-NOV-15	R3305708
pH	7.77		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-20 OW-15S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	442		10	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	<0.050		0.050	mg/L				05-NOV-15	R3306633
Chloride (Cl)	<0.50		0.50	mg/L			250	05-NOV-15	R3306991
Color, Apparent	140		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	767		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305386
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.035		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	<0.050		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	105		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00056		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	0.112		0.050	mg/L			0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	34.4		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.137		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	<1.0		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	5.9		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	4.14		0.50	mg/L	20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.165		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-20 OW-15S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by CRC ICPMS									
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	<0.0030		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	0.048		0.020	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	405		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	<0.020		0.020	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	23.3		0.30	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	354	DLDS	20	mg/L			500	07-NOV-15	R3308603
Turbidity	>1000		0.10	NTU			5	04-NOV-15	R3305708
pH	7.68		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-21 OW-15D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	383		10	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	0.884		0.050	mg/L				05-NOV-15	R3306633
Chloride (Cl)	8.44		0.50	mg/L			250	05-NOV-15	R3306991
Color, Apparent	79.3		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	731		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305386
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			05-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0030		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.051		0.010	mg/L	1			05-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				05-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				05-NOV-15	R3306221
Boron (B)-Dissolved	0.079		0.050	mg/L	5			05-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			05-NOV-15	R3306221
Calcium (Ca)-Dissolved	101		0.50	mg/L				05-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00068		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00060		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	1.95		0.050	mg/L		**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			05-NOV-15	R3306221
Magnesium (Mg)-Dissolved	32.6		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.218		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				05-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-21 OW-15D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by CRC ICPMS									
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	1.9		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	4.8		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				05-NOV-15	R3306221
Sodium (Na)-Dissolved	7.68		0.50	mg/L	20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.158		0.0010	mg/L				05-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				05-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				05-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				05-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			05-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0046		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				05-NOV-15	R3306221
Fluoride (F)	0.050		0.020	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	388		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	<0.020		0.020	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	32.3		0.30	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	390	DLDS	20	mg/L			500	07-NOV-15	R3308603
Turbidity	104		0.10	NTU		**	5	04-NOV-15	R3305708
pH	7.76		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-22 OW-16S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	470		10	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	0.230		0.050	mg/L				05-NOV-15	R3306633
Chloride (Cl)	11.7		0.50	mg/L			250	05-NOV-15	R3306991
Color, Apparent	230		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	805		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305386
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.049		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-22 OW-16S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by CRC ICPMS									
Boron (B)-Dissolved	0.079		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	123		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00057		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	0.0011		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	0.800		0.050	mg/L		**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	36.2		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.0703		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	4.3		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	6.5		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	8.16		0.50	mg/L	20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.204		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0039		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	0.041		0.020	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	455		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	0.105		0.020	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	0.019		0.010	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	10.3		0.30	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	408	DLDS	20	mg/L			500	07-NOV-15	R3308603
Turbidity	>1000		0.10	NTU			5	04-NOV-15	R3305708
pH	7.68		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-23 OW-16D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	648	DLHC	20	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	13.6	DLHC	0.50	mg/L				05-NOV-15	R3306633
Chloride (Cl)	53.6	DLM	2.5	mg/L			250	05-NOV-15	R3306991
Color, Apparent	156		1.0	C.U.		**	5	04-NOV-15	R3306329

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-23 OW-16D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Conductivity	1430		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305386
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0033		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.175		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	0.529		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	134		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00092		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00246		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	6.27		0.050	mg/L		**	0.3	05-NOV-15	R3306221
Lead (Pb)-Dissolved	0.0052		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	69.0		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.489		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0068		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	25.4		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			05-NOV-15	R3306221
Silicon (Si)-Dissolved	6.4		1.0	mg/L				05-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	34.9		0.50	mg/L	** 20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.394		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0251		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	<0.10	DLM	0.10	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	619		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	<0.10	DLM	0.10	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.050	DLM	0.050	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	73.5	DLM	1.5	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	715	DLDS	20	mg/L		**	500	07-NOV-15	R3308603
Turbidity	70.8		0.10	NTU		**	5	04-NOV-15	R3305708
pH	7.43		0.10	pH units			6.5-8.5	04-NOV-15	R3305833

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1697979-23 OW-16D								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
L1697979-24 OW-18S								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	523	DLHC	20	mg/L		30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	6.04	DLHC	0.50	mg/L			05-NOV-15	R3306633
Chloride (Cl)	84.8	DLM	2.5	mg/L		250	05-NOV-15	R3306991
Color, Apparent	227		1.0	C.U.		** 5	04-NOV-15	R3306329
Conductivity	1370		3.0	umhos/cm			04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS								
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit			04-NOV-15	R3305386
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025		04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.120		0.010	mg/L	1		04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Boron (B)-Dissolved	0.426		0.050	mg/L	5		04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		04-NOV-15	R3306221
Calcium (Ca)-Dissolved	129		0.50	mg/L			04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00055		0.00050	mg/L	0.05		04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00159		0.00050	mg/L			04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L		1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	0.968		0.050	mg/L		** 0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	61.6		0.50	mg/L			04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.295		0.0010	mg/L		** 0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0029		0.0020	mg/L			04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			04-NOV-15	R3306221
Potassium (K)-Dissolved	16.0		1.0	mg/L			04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		04-NOV-15	R3306221
Silicon (Si)-Dissolved	6.4		1.0	mg/L			04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			04-NOV-15	R3306221
Sodium (Na)-Dissolved	39.9		0.50	mg/L	** 20	200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.324		0.0010	mg/L			04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L			04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L			04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02		04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0050		0.0030	mg/L		5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L			04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-24 OW-18S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Fluoride (F)	<0.10	DLM	0.10	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	576		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	<0.10	DLM	0.10	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	0.073	DLM	0.050	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	85.4	DLM	1.5	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	744	DLDS	20	mg/L		**	500	07-NOV-15	R3308603
Turbidity	689		0.10	NTU		**	5	04-NOV-15	R3305708
pH	7.59		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-25 OW-18D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	519	DLHC	20	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	8.50	DLHC	0.50	mg/L				05-NOV-15	R3306633
Chloride (Cl)	49.6	DLM	2.5	mg/L			250	05-NOV-15	R3306991
Color, Apparent	203		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	1210		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305386
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			05-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0048		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.111		0.010	mg/L	1			05-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				05-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				05-NOV-15	R3306221
Boron (B)-Dissolved	0.472		0.050	mg/L	5			05-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			05-NOV-15	R3306221
Calcium (Ca)-Dissolved	124		0.50	mg/L				05-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00076		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00384		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	5.59		0.050	mg/L		**	0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			05-NOV-15	R3306221
Magnesium (Mg)-Dissolved	54.6		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.248		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				05-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0065		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	21.3		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			04-NOV-15	R3306221
Silicon (Si)-Dissolved	5.9		1.0	mg/L				04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				05-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1697979-25 OW-18D								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Dissolved Metals in Water by CRC ICPMS								
Sodium (Na)-Dissolved	31.3		0.50	mg/L	** 20	200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.340		0.0010	mg/L			05-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L			05-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			05-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L			05-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02		05-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0438		0.0030	mg/L		5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L			05-NOV-15	R3306221
Fluoride (F)	<0.10	DLM	0.10	mg/L	1.5		05-NOV-15	R3306991
Hardness (as CaCO3)	536		10	mg/L		** 80-100	05-NOV-15	
Nitrate (as N)	<0.10	DLM	0.10	mg/L	10		05-NOV-15	R3306991
Nitrite (as N)	<0.050	DLM	0.050	mg/L	1		05-NOV-15	R3306991
Sulfate (SO4)	67.4	DLM	1.5	mg/L		500	05-NOV-15	R3306991
Total Dissolved Solids	530	DLDS	20	mg/L		** 500	07-NOV-15	R3308603
Turbidity	102		0.10	NTU		** 5	04-NOV-15	R3305708
pH	7.55		0.10	pH units		6.5-8.5	04-NOV-15	R3305833
L1697979-26 OW-19S								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	322		10	mg/L		30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	0.122		0.050	mg/L			05-NOV-15	R3306633
Chloride (Cl)	2.51		0.50	mg/L		250	05-NOV-15	R3306991
Color, Apparent	190		1.0	C.U.		** 5	04-NOV-15	R3306329
Conductivity	565		3.0	umhos/cm			04-NOV-15	R3305841
Phosphate-P (ortho)	0.0036		0.0030	mg/L			06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS								
Aluminum (Al)-Dissolved	0.053		0.010	mg/L		0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit			04-NOV-15	R3305386
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		04-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0033		0.0010	mg/L	0.025		04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.028		0.010	mg/L	1		04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Boron (B)-Dissolved	0.140		0.050	mg/L	5		04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		04-NOV-15	R3306221
Calcium (Ca)-Dissolved	44.7		0.50	mg/L			04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00075		0.00050	mg/L	0.05		04-NOV-15	R3306221
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L			04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L		1	04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1697979-26 OW-19S								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Dissolved Metals in Water by CRC ICPMS								
Iron (Fe)-Dissolved	0.118		0.050	mg/L		0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	45.3		0.50	mg/L			04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.0222		0.0010	mg/L		0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	0.0031		0.0010	mg/L			04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0029		0.0020	mg/L			04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			04-NOV-15	R3306221
Potassium (K)-Dissolved	3.2		1.0	mg/L			04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		04-NOV-15	R3306221
Silicon (Si)-Dissolved	6.3		1.0	mg/L			04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			04-NOV-15	R3306221
Sodium (Na)-Dissolved	15.8		0.50	mg/L	20	200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.189		0.0010	mg/L			04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L			04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Titanium (Ti)-Dissolved	0.0020		0.0020	mg/L			04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L			04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02		04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Zinc (Zn)-Dissolved	<0.0030		0.0030	mg/L		5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L			04-NOV-15	R3306221
Fluoride (F)	0.226		0.020	mg/L	1.5		05-NOV-15	R3306991
Hardness (as CaCO3)	298		10	mg/L		** 80-100	05-NOV-15	
Nitrate (as N)	<0.020		0.020	mg/L	10		05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1		05-NOV-15	R3306991
Sulfate (SO4)	12.9		0.30	mg/L		500	05-NOV-15	R3306991
Total Dissolved Solids	252	DLDS	20	mg/L		500	07-NOV-15	R3308603
Turbidity	>1000		0.10	NTU		5	04-NOV-15	R3305708
pH	8.15		0.10	pH units		6.5-8.5	04-NOV-15	R3305833
L1697979-27 OW-20S								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Alkalinity, Total (as CaCO3)	497	DLHC	10	mg/L		30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	0.140		0.050	mg/L			05-NOV-15	R3306633
Chloride (Cl)	8.19		0.50	mg/L		250	05-NOV-15	R3306991
Color, Apparent	196		1.0	C.U.		** 5	04-NOV-15	R3306329
Conductivity	859		3.0	umhos/cm			04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L			06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS								
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L		0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit			04-NOV-15	R3305386

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1697979-27 OW-20S								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								
Dissolved Metals in Water by CRC ICPMS								
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006		04-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0027		0.0010	mg/L	0.025		04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.060		0.010	mg/L	1		04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Boron (B)-Dissolved	0.164		0.050	mg/L	5		04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005		04-NOV-15	R3306221
Calcium (Ca)-Dissolved	92.8		0.50	mg/L			04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00069		0.00050	mg/L	0.05		04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00082		0.00050	mg/L			04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L		1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	0.768		0.050	mg/L		** 0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01		04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	43.4		0.50	mg/L			04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.200		0.0010	mg/L		** 0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	0.0021		0.0010	mg/L			04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0022		0.0020	mg/L			04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			04-NOV-15	R3306221
Potassium (K)-Dissolved	4.9		1.0	mg/L			04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		04-NOV-15	R3306221
Silicon (Si)-Dissolved	6.7		1.0	mg/L			04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			04-NOV-15	R3306221
Sodium (Na)-Dissolved	42.3		0.50	mg/L	** 20	200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.248		0.0010	mg/L			04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L			04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L			04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02		04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Zinc (Zn)-Dissolved	<0.0030		0.0030	mg/L		5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L			04-NOV-15	R3306221
Fluoride (F)	0.148		0.020	mg/L	1.5		05-NOV-15	R3306991
Hardness (as CaCO3)	410		10	mg/L		** 80-100	05-NOV-15	
Nitrate (as N)	0.023		0.020	mg/L	10		05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1		05-NOV-15	R3306991
Sulfate (SO4)	30.2		0.30	mg/L		500	05-NOV-15	R3306991
Total Dissolved Solids	431	DLDS	20	mg/L		500	07-NOV-15	R3308603
Turbidity	>1000		0.10	NTU		5	04-NOV-15	R3305708
pH	7.91		0.10	pH units		6.5-8.5	04-NOV-15	R3305833
L1697979-28 OW-20D								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER					STANDARDS	GUIDELINES		
General Chemistry Package 1-Groundwater								

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS		GUIDELINES	Analyzed	Batch
L1697979-28 OW-20D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER									
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	562	DLHC	20	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	9.37	DLHC	0.50	mg/L				05-NOV-15	R3306633
Chloride (Cl)	50.1	DLM	2.5	mg/L			250	05-NOV-15	R3306991
Color, Apparent	138		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	1390		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305386
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	0.0027		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.120		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	0.556		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	134		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00088		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	0.00332		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	<0.0010		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	3.94		0.050	mg/L		**	0.3	05-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	67.4		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.545		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	0.0076		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	22.7		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			05-NOV-15	R3306221
Silicon (Si)-Dissolved	6.2		1.0	mg/L				05-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	32.5		0.50	mg/L	** 20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.383		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	0.00032		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0127		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	<0.10	DLM	0.10	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	612		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	<0.10	DLM	0.10	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.050	DLM	0.050	mg/L	1			05-NOV-15	R3306991

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-28 OW-20D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Sulfate (SO4)	128	DLM	1.5	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	766	DLDS	20	mg/L		**	500	07-NOV-15	R3308603
Turbidity	118		0.10	NTU		**	5	04-NOV-15	R3305708
pH	7.72		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-29 OW-21S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	401		10	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	<0.050		0.050	mg/L				05-NOV-15	R3306633
Chloride (Cl)	5.70		0.50	mg/L			250	05-NOV-15	R3306991
Color, Apparent	115		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	725		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305386
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.034		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	<0.050		0.050	mg/L	5			05-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	106		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00069		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	0.0016		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	<0.050		0.050	mg/L			0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	31.5		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.0838		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Nickel (Ni)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L				04-NOV-15	R3306221
Potassium (K)-Dissolved	1.6		1.0	mg/L				04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01			05-NOV-15	R3306221
Silicon (Si)-Dissolved	4.4		1.0	mg/L				05-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L				04-NOV-15	R3306221
Sodium (Na)-Dissolved	4.25		0.50	mg/L	20		200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.109		0.0010	mg/L				04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L				04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L				04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Ontario DW Std O.Reg 169/03 JUNE 2007

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits			Analyzed	Batch
L1697979-29 OW-21S									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Dissolved Metals in Water by CRC ICPMS									
Tungsten (W)-Dissolved	<0.010		0.010	mg/L				04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02			04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0045		0.0030	mg/L			5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L				04-NOV-15	R3306221
Fluoride (F)	0.038		0.020	mg/L	1.5			05-NOV-15	R3306991
Hardness (as CaCO3)	394		10	mg/L		**	80-100	05-NOV-15	
Nitrate (as N)	1.23		0.020	mg/L	10			05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1			05-NOV-15	R3306991
Sulfate (SO4)	9.24		0.30	mg/L			500	05-NOV-15	R3306991
Total Dissolved Solids	376	DLDS	20	mg/L			500	07-NOV-15	R3308603
Turbidity	>1000		0.10	NTU			5	04-NOV-15	R3305708
pH	7.71		0.10	pH units			6.5-8.5	04-NOV-15	R3305833
L1697979-30 OW-21D									
Sampled By: BJL on 04-NOV-15									
Matrix: WATER					STANDARDS		GUIDELINES		
General Chemistry Package 1-Groundwater									
Alkalinity, Total (as CaCO3)	405		10	mg/L			30-500	05-NOV-15	R3306605
Ammonia, Total (as N)	4.16	DLHC	0.10	mg/L				05-NOV-15	R3306633
Chloride (Cl)	15.8		0.50	mg/L			250	05-NOV-15	R3306991
Color, Apparent	31.3		1.0	C.U.		**	5	04-NOV-15	R3306329
Conductivity	781		3.0	umhos/cm				04-NOV-15	R3305841
Phosphate-P (ortho)	<0.0030		0.0030	mg/L				06-NOV-15	R3308258
Dissolved Metals in Water by CRC ICPMS									
Aluminum (Al)-Dissolved	<0.010		0.010	mg/L			0.1	04-NOV-15	R3306221
Dissolved Metals Filtration Location	FIELD			No Unit				04-NOV-15	R3305386
Antimony (Sb)-Dissolved	<0.0050		0.0050	mg/L	0.006			04-NOV-15	R3306221
Arsenic (As)-Dissolved	<0.0010		0.0010	mg/L	0.025			04-NOV-15	R3306221
Barium (Ba)-Dissolved	0.045		0.010	mg/L	1			04-NOV-15	R3306221
Beryllium (Be)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Bismuth (Bi)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221
Boron (B)-Dissolved	0.142		0.050	mg/L	5			04-NOV-15	R3306221
Cadmium (Cd)-Dissolved	<0.000090		0.000090	mg/L	0.005			04-NOV-15	R3306221
Calcium (Ca)-Dissolved	98.9		0.50	mg/L				04-NOV-15	R3306221
Chromium (Cr)-Dissolved	0.00082		0.00050	mg/L	0.05			04-NOV-15	R3306221
Cobalt (Co)-Dissolved	<0.00050		0.00050	mg/L				04-NOV-15	R3306221
Copper (Cu)-Dissolved	0.0046		0.0010	mg/L			1	04-NOV-15	R3306221
Iron (Fe)-Dissolved	<0.050		0.050	mg/L			0.3	04-NOV-15	R3306221
Lead (Pb)-Dissolved	<0.0010		0.0010	mg/L	0.01			04-NOV-15	R3306221
Magnesium (Mg)-Dissolved	34.6		0.50	mg/L				04-NOV-15	R3306221
Manganese (Mn)-Dissolved	0.140		0.0010	mg/L		**	0.05	04-NOV-15	R3306221
Molybdenum (Mo)-Dissolved	<0.0010		0.0010	mg/L				04-NOV-15	R3306221

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits STANDARDS	GUIDELINES	Analyzed	Batch
L1697979-30 OW-21D								
Sampled By: BJL on 04-NOV-15								
Matrix: WATER								
General Chemistry Package 1-Groundwater								
Dissolved Metals in Water by CRC ICPMS								
Nickel (Ni)-Dissolved	0.0041		0.0020	mg/L			04-NOV-15	R3306221
Phosphorus (P)-Dissolved	<0.050		0.050	mg/L			04-NOV-15	R3306221
Potassium (K)-Dissolved	6.3		1.0	mg/L			04-NOV-15	R3306221
Selenium (Se)-Dissolved	<0.00040		0.00040	mg/L	0.01		04-NOV-15	R3306221
Silicon (Si)-Dissolved	3.7		1.0	mg/L			04-NOV-15	R3306221
Silver (Ag)-Dissolved	<0.00010		0.00010	mg/L			04-NOV-15	R3306221
Sodium (Na)-Dissolved	8.90		0.50	mg/L	20	200	04-NOV-15	R3306221
Strontium (Sr)-Dissolved	0.147		0.0010	mg/L			04-NOV-15	R3306221
Thallium (Tl)-Dissolved	<0.00030		0.00030	mg/L			04-NOV-15	R3306221
Tin (Sn)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Titanium (Ti)-Dissolved	<0.0020		0.0020	mg/L			04-NOV-15	R3306221
Tungsten (W)-Dissolved	<0.010		0.010	mg/L			04-NOV-15	R3306221
Uranium (U)-Dissolved	<0.0050		0.0050	mg/L	0.02		04-NOV-15	R3306221
Vanadium (V)-Dissolved	<0.0010		0.0010	mg/L			04-NOV-15	R3306221
Zinc (Zn)-Dissolved	0.0184		0.0030	mg/L		5	04-NOV-15	R3306221
Zirconium (Zr)-Dissolved	<0.0040		0.0040	mg/L			04-NOV-15	R3306221
Fluoride (F)	0.078		0.020	mg/L	1.5		05-NOV-15	R3306991
Hardness (as CaCO3)	390		10	mg/L		** 80-100	05-NOV-15	
Nitrate (as N)	0.244		0.020	mg/L	10		05-NOV-15	R3306991
Nitrite (as N)	<0.010		0.010	mg/L	1		05-NOV-15	R3306991
Sulfate (SO4)	15.3		0.30	mg/L		500	05-NOV-15	R3306991
Total Dissolved Solids	396	DLDS	20	mg/L		500	07-NOV-15	R3308603
Turbidity	16.8		0.10	NTU		** 5	04-NOV-15	R3305708
pH	7.81		0.10	pH units		6.5-8.5	04-NOV-15	R3305833

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

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Sample Parameter Qualifier key listed:

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects.
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
ALK-WT	Water	Alkalinity, Total (as CaCO3)		EPA 310.2
CL-IC-WT	Water	Chloride by IC		EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

COLOUR-WT	Water	Colour		APHA 2120

Apparent colour is determined by analysis of the decanted sample using the platinum-cobalt colourimetric method.

EC-WT	Water	Conductivity		APHA 2510 B

Water samples can be measured directly by immersing the conductivity cell into the sample.

F-IC-N-WT	Water	Fluoride in Water by IC		EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

HARDNESS-CALC-WT	Water	Hardness		APHA 2340 B

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

MET-D-CCMS-WT	Water	Dissolved Metals in Water by CRC ICPMS		APHA 3030B/6020A (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

NH3-WT	Water	Ammonia, Total as N		EPA 350.1

Sample is measured colorimetrically. When sample is turbid a distillation step is required, sample is distilled into a solution of boric acid and measured colorimetrically.

NO2-IC-WT	Water	Nitrite in Water by IC		EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

NO3-IC-WT	Water	Nitrate in Water by IC		EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

PH-WT	Water	pH		APHA 4500 H-Electrode

Water samples are analyzed directly by a calibrated pH meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

PO4-DO-COL-WT	Water	Diss. Orthophosphate in Water by Colour		APHA 4500-P PHOSPHORUS

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Dissolved Orthophosphate is determined colourimetrically on a sample that has been lab or field filtered through a 0.45 micron membrane filter.

SO4-IC-N-WT	Water	Sulfate in Water by IC		EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

SOLIDS-TDS-WT	Water	Total Dissolved Solids		APHA 2540C

A well-mixed sample is filtered though glass fibres filter. A known volume of the filtrate is evaporated and dried at 105–5°C overnight and then 180–10°C for 1hr.

TURBIDITY-WT	Water	Turbidity		APHA 2130 B

Sample result is based on a comparison of the intensity of the light scattered by the sample under defined conditions with the intensity of light scattered by a standard reference suspension under the same conditions. Sample readings are obtained from a Nephelometer.

Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Reference Information

BG-530

Chain of Custody numbers:

14-397022	14-464576	14-464579

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of criteria limits is provided as is without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information.

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
ALK-WT	**Water**							
Batch R3306605								
WG2208688-11 CRM		**WT-ALK-CRM**						
Alkalinity, Total (as CaCO3)			103.4		%		80-120	05-NOV-15
WG2208688-15 CRM		**WT-ALK-CRM**						
Alkalinity, Total (as CaCO3)			94.2		%		80-120	05-NOV-15
WG2208688-7 CRM		**WT-ALK-CRM**						
Alkalinity, Total (as CaCO3)			98.2		%		80-120	05-NOV-15
WG2208688-12 DUP		**L1697979-13**						
Alkalinity, Total (as CaCO3)		405	403		mg/L	0.5	20	05-NOV-15
WG2208688-16 DUP		**L1697979-30**						
Alkalinity, Total (as CaCO3)		405	396		mg/L	2.2	20	05-NOV-15
WG2208688-8 DUP		**L1697881-1**						
Alkalinity, Total (as CaCO3)		282	279		mg/L	1.3	20	05-NOV-15
WG2208688-10 LCS								
Alkalinity, Total (as CaCO3)			103.9		%		85-115	05-NOV-15
WG2208688-14 LCS								
Alkalinity, Total (as CaCO3)			90.1		%		85-115	05-NOV-15
WG2208688-6 LCS								
Alkalinity, Total (as CaCO3)			98.0		%		85-115	05-NOV-15
WG2208688-13 MB								
Alkalinity, Total (as CaCO3)			<10		mg/L		10	05-NOV-15
WG2208688-5 MB								
Alkalinity, Total (as CaCO3)			<10		mg/L		10	05-NOV-15
WG2208688-9 MB								
Alkalinity, Total (as CaCO3)			<10		mg/L		10	05-NOV-15
CL-IC-WT	**Water**							
Batch R3306991								
WG2208098-3 DUP		**L1697690-1**						
Chloride (Cl)		15.3	14.9		mg/L	2.7	25	05-NOV-15
WG2208098-8 DUP		**L1697979-12**						
Chloride (Cl)		39.0	39.1		mg/L	0.1	25	05-NOV-15
WG2208098-2 LCS								
Chloride (Cl)			103.0		%		70-130	05-NOV-15
WG2208098-6 LCS								
Chloride (Cl)			99.7		%		70-130	05-NOV-15
WG2208098-1 MB								
Chloride (Cl)			<0.50		mg/L		0.5	05-NOV-15
WG2208098-5 MB								
Chloride (Cl)			<0.50		mg/L		0.5	05-NOV-15

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CL-IC-WT	**Water**							
Batch R3306991								
WG2208098-4 MS		**L1697690-1**						
Chloride (Cl)			98.4		%		70-130	05-NOV-15
WG2208098-7 MS		**L1697979-12**						
Chloride (Cl)			95.0		%		70-130	05-NOV-15
COLOUR-WT	**Water**							
Batch R3306329								
WG2208237-3 CRM		**WT-COLOUR-CRM**						
Color, Apparent			97.2		%		80-120	04-NOV-15
WG2208237-7 CRM		**WT-COLOUR-CRM**						
Color, Apparent			100.8		%		80-120	04-NOV-15
WG2208237-4 DUP		**L1697713-3**						
Color, Apparent		1.2	1.2		C.U.	7.2	20	04-NOV-15
WG2208237-8 DUP		**L1697979-19**						
Color, Apparent		192	200		C.U.	4.2	20	04-NOV-15
WG2208237-1 MB								
Color, Apparent			<1.0		C.U.		1	04-NOV-15
WG2208237-5 MB								
Color, Apparent			<1.0		C.U.		1	04-NOV-15
EC-WT	**Water**							
Batch R3305841								
WG2207720-12 DUP		**WG2207720-11**						
Conductivity		777	778		umhos/cm	0.1	10	04-NOV-15
WG2207720-4 DUP		**WG2207720-3**						
Conductivity		1340	1350		umhos/cm	0.2	10	04-NOV-15
WG2207720-8 DUP		**WG2207720-7**						
Conductivity		5440	5410		umhos/cm	0.6	10	04-NOV-15
WG2207720-10 LCS								
Conductivity			100.4		%		90-110	04-NOV-15
WG2207720-2 LCS								
Conductivity			102.3		%		90-110	04-NOV-15
WG2207720-6 LCS								
Conductivity			100.8		%		90-110	04-NOV-15
WG2207720-1 MB								
Conductivity			<3.0		umhos/cm		3	04-NOV-15
WG2207720-5 MB								
Conductivity			<3.0		umhos/cm		3	04-NOV-15
WG2207720-9 MB								
Conductivity			<3.0		umhos/cm		3	04-NOV-15

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F-IC-N-WT	**Water**							
Batch R3306991								
WG2208098-3 DUP		**L1697690-1**						
Fluoride (F)		0.064	0.062		mg/L	3.5	20	05-NOV-15
WG2208098-8 DUP		**L1697979-12**						
Fluoride (F)		0.026	0.028		mg/L	9.2	20	05-NOV-15
WG2208098-2 LCS								
Fluoride (F)			101.8		%		90-110	05-NOV-15
WG2208098-6 LCS								
Fluoride (F)			100.3		%		90-110	05-NOV-15
WG2208098-1 MB								
Fluoride (F)			<0.020		mg/L		0.02	05-NOV-15
WG2208098-5 MB								
Fluoride (F)			<0.020		mg/L		0.02	05-NOV-15
WG2208098-4 MS		**L1697690-1**						
Fluoride (F)			99.4		%		75-125	05-NOV-15
WG2208098-7 MS		**L1697979-12**						
Fluoride (F)			100.5		%		75-125	05-NOV-15
MET-D-CCMS-WT	**Water**							
Batch R3306221								
WG2208128-4 DUP		**WG2208128-3**						
Aluminum (Al)-Dissolved		<0.0050	<0.0050	RPD-NA	mg/L	N/A	20	04-NOV-15
Antimony (Sb)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-NOV-15
Arsenic (As)-Dissolved		0.00021	0.00020		mg/L	3.2	20	04-NOV-15
Barium (Ba)-Dissolved		0.0329	0.0328		mg/L	0.2	20	04-NOV-15
Beryllium (Be)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-NOV-15
Bismuth (Bi)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	04-NOV-15
Boron (B)-Dissolved		0.027	0.028		mg/L	4.7	20	04-NOV-15
Cadmium (Cd)-Dissolved		0.000011	<0.000010	RPD-NA	mg/L	N/A	20	04-NOV-15
Calcium (Ca)-Dissolved		97.8	99.7		mg/L	1.9	20	04-NOV-15
Chromium (Cr)-Dissolved		0.00080	0.00060	J	mg/L	0.00021	0.001	04-NOV-15
Cobalt (Co)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-NOV-15
Copper (Cu)-Dissolved		0.00072	0.00068		mg/L	5.2	20	04-NOV-15
Iron (Fe)-Dissolved		0.060	0.058		mg/L	3.5	20	04-NOV-15
Lead (Pb)-Dissolved		0.000077	0.000070		mg/L	9.8	20	04-NOV-15
Magnesium (Mg)-Dissolved		33.5	32.8		mg/L	2.0	20	04-NOV-15
Manganese (Mn)-Dissolved		0.00465	0.00451		mg/L	3.2	20	04-NOV-15
Molybdenum (Mo)-Dissolved		0.000265	0.000257		mg/L	3.0	20	04-NOV-15

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WT	**Water**							
Batch R3306221								
WG2208128-4 DUP		**WG2208128-3**						
Nickel (Ni)-Dissolved		0.00074	0.00063		mg/L	16	20	04-NOV-15
Phosphorus (P)-Dissolved		<0.050	<0.050	RPD-NA	mg/L	N/A	20	04-NOV-15
Potassium (K)-Dissolved		0.622	0.597		mg/L	4.1	20	04-NOV-15
Selenium (Se)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	04-NOV-15
Silicon (Si)-Dissolved		5.10	5.13		mg/L	0.6	20	04-NOV-15
Silver (Ag)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	04-NOV-15
Sodium (Na)-Dissolved		7.49	7.28		mg/L	2.9	20	04-NOV-15
Strontium (Sr)-Dissolved		0.133	0.135		mg/L	1.2	20	04-NOV-15
Thallium (Tl)-Dissolved		<0.000010	<0.000010	RPD-NA	mg/L	N/A	20	04-NOV-15
Tin (Sn)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-NOV-15
Titanium (Ti)-Dissolved		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	04-NOV-15
Tungsten (W)-Dissolved		0.00014	0.00015		mg/L	2.2	20	04-NOV-15
Uranium (U)-Dissolved		0.000460	0.000463		mg/L	0.7	20	04-NOV-15
Vanadium (V)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	04-NOV-15
Zinc (Zn)-Dissolved		0.0077	0.0071		mg/L	7.6	20	04-NOV-15
Zirconium (Zr)-Dissolved		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	04-NOV-15
WG2208131-4 DUP		**WG2208131-3**						
Aluminum (Al)-Dissolved		0.0067	0.0061		mg/L	8.3	20	04-NOV-15
Antimony (Sb)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-NOV-15
Arsenic (As)-Dissolved		0.00043	0.00039		mg/L	12	20	04-NOV-15
Barium (Ba)-Dissolved		0.0246	0.0223		mg/L	9.8	20	04-NOV-15
Beryllium (Be)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-NOV-15
Bismuth (Bi)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	04-NOV-15
Boron (B)-Dissolved		0.082	0.081		mg/L	1.8	20	04-NOV-15
Cadmium (Cd)-Dissolved		0.000068	0.000067		mg/L	1.5	20	04-NOV-15
Calcium (Ca)-Dissolved		108	106		mg/L	1.8	20	04-NOV-15
Chromium (Cr)-Dissolved		0.00078	0.00071		mg/L	9.2	20	04-NOV-15
Cobalt (Co)-Dissolved		0.00059	0.00051		mg/L	14	20	04-NOV-15
Copper (Cu)-Dissolved		0.00158	0.00140		mg/L	12	20	04-NOV-15
Iron (Fe)-Dissolved		0.073	0.066		mg/L	9.1	20	04-NOV-15
Lead (Pb)-Dissolved		0.000672	0.000664		mg/L	1.1	20	04-NOV-15
Magnesium (Mg)-Dissolved		34.3	31.1		mg/L	9.7	20	04-NOV-15
Manganese (Mn)-Dissolved		0.348	0.315		mg/L	9.8	20	04-NOV-15

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WT	**Water**							
Batch R3306221								
WG2208131-4 DUP		**WG2208131-3**						
Molybdenum (Mo)-Dissolved		0.000208	0.000212		mg/L	2.2	20	04-NOV-15
Nickel (Ni)-Dissolved		0.00325	0.00293		mg/L	10	20	04-NOV-15
Phosphorus (P)-Dissolved		<0.050	<0.050	RPD-NA	mg/L	N/A	20	04-NOV-15
Potassium (K)-Dissolved		0.963	0.862		mg/L	11	20	04-NOV-15
Selenium (Se)-Dissolved		0.000169	0.000154		mg/L	8.9	20	04-NOV-15
Silicon (Si)-Dissolved		3.76	3.72		mg/L	1.1	20	04-NOV-15
Silver (Ag)-Dissolved		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	04-NOV-15
Sodium (Na)-Dissolved		11.3	10.2		mg/L	9.7	20	04-NOV-15
Strontium (Sr)-Dissolved		0.106	0.103		mg/L	2.5	20	04-NOV-15
Thallium (Tl)-Dissolved		0.000045	0.000044		mg/L	0.5	20	04-NOV-15
Tin (Sn)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-NOV-15
Titanium (Ti)-Dissolved		<0.00030	<0.00030	RPD-NA	mg/L	N/A	20	04-NOV-15
Tungsten (W)-Dissolved		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	04-NOV-15
Uranium (U)-Dissolved		0.000795	0.000782		mg/L	1.7	20	04-NOV-15
Vanadium (V)-Dissolved		<0.00050	<0.00050	RPD-NA	mg/L	N/A	20	04-NOV-15
Zinc (Zn)-Dissolved		0.0080	0.0067		mg/L	18	20	04-NOV-15
Zirconium (Zr)-Dissolved		0.00061	0.00059		mg/L	2.8	20	04-NOV-15
WG2208128-2 LCS								
Aluminum (Al)-Dissolved			90.8		%		80-120	04-NOV-15
Antimony (Sb)-Dissolved			95.7		%		80-120	04-NOV-15
Arsenic (As)-Dissolved			94.0		%		80-120	04-NOV-15
Barium (Ba)-Dissolved			98.5		%		80-120	04-NOV-15
Beryllium (Be)-Dissolved			81.5		%		80-120	04-NOV-15
Bismuth (Bi)-Dissolved			96.1		%		80-120	04-NOV-15
Boron (B)-Dissolved			80.6		%		80-120	04-NOV-15
Cadmium (Cd)-Dissolved			96.6		%		80-120	04-NOV-15
Calcium (Ca)-Dissolved			94.8		%		80-120	04-NOV-15
Chromium (Cr)-Dissolved			93.2		%		80-120	04-NOV-15
Cobalt (Co)-Dissolved			95.8		%		80-120	04-NOV-15
Copper (Cu)-Dissolved			94.4		%		80-120	04-NOV-15
Iron (Fe)-Dissolved			96.4		%		80-120	04-NOV-15
Lead (Pb)-Dissolved			97.0		%		80-120	04-NOV-15
Magnesium (Mg)-Dissolved			88.3		%		80-120	04-NOV-15

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WT	**Water**							
Batch R3306221								
WG2208128-2 LCS								
Manganese (Mn)-Dissolved			94.2		%		80-120	04-NOV-15
Molybdenum (Mo)-Dissolved			98.1		%		80-120	04-NOV-15
Nickel (Ni)-Dissolved			95.0		%		80-120	04-NOV-15
Phosphorus (P)-Dissolved			92.0		%		80-120	04-NOV-15
Potassium (K)-Dissolved			92.7		%		80-120	04-NOV-15
Selenium (Se)-Dissolved			97.5		%		80-120	04-NOV-15
Silicon (Si)-Dissolved			95.4		%		80-120	04-NOV-15
Silver (Ag)-Dissolved			98.0		%		80-120	04-NOV-15
Sodium (Na)-Dissolved			92.1		%		80-120	04-NOV-15
Strontium (Sr)-Dissolved			98.2		%		80-120	04-NOV-15
Thallium (Tl)-Dissolved			97.3		%		80-120	04-NOV-15
Tin (Sn)-Dissolved			95.7		%		80-120	04-NOV-15
Titanium (Ti)-Dissolved			88.6		%		80-120	04-NOV-15
Tungsten (W)-Dissolved			98.5		%		80-120	04-NOV-15
Uranium (U)-Dissolved			97.0		%		80-120	04-NOV-15
Vanadium (V)-Dissolved			95.7		%		80-120	04-NOV-15
Zinc (Zn)-Dissolved			92.8		%		80-120	04-NOV-15
Zirconium (Zr)-Dissolved			92.0		%		80-120	04-NOV-15
WG2208131-2 LCS								
Aluminum (Al)-Dissolved			94.6		%		80-120	04-NOV-15
Antimony (Sb)-Dissolved			96.1		%		80-120	04-NOV-15
Arsenic (As)-Dissolved			96.4		%		80-120	04-NOV-15
Barium (Ba)-Dissolved			97.7		%		80-120	04-NOV-15
Beryllium (Be)-Dissolved			92.1		%		80-120	04-NOV-15
Bismuth (Bi)-Dissolved			94.8		%		80-120	04-NOV-15
Boron (B)-Dissolved			94.5		%		80-120	04-NOV-15
Cadmium (Cd)-Dissolved			96.3		%		80-120	04-NOV-15
Calcium (Ca)-Dissolved			96.9		%		80-120	04-NOV-15
Chromium (Cr)-Dissolved			97.6		%		80-120	04-NOV-15
Cobalt (Co)-Dissolved			97.9		%		80-120	04-NOV-15
Copper (Cu)-Dissolved			96.6		%		80-120	04-NOV-15
Iron (Fe)-Dissolved			97.2		%		80-120	04-NOV-15
Lead (Pb)-Dissolved			96.7		%		80-120	04-NOV-15
Magnesium (Mg)-Dissolved			92.8		%		80-120	04-NOV-15

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WT	**Water**							
Batch	**R3306221**							
WG2208131-2	**LCS**							
Manganese (Mn)-Dissolved			100.3		%		80-120	04-NOV-15
Molybdenum (Mo)-Dissolved			98.3		%		80-120	04-NOV-15
Nickel (Ni)-Dissolved			97.8		%		80-120	04-NOV-15
Phosphorus (P)-Dissolved			104.7		%		80-120	04-NOV-15
Potassium (K)-Dissolved			97.2		%		80-120	04-NOV-15
Selenium (Se)-Dissolved			95.7		%		80-120	04-NOV-15
Silicon (Si)-Dissolved			95.7		%		80-120	04-NOV-15
Silver (Ag)-Dissolved			98.0		%		80-120	04-NOV-15
Sodium (Na)-Dissolved			96.1		%		80-120	04-NOV-15
Strontium (Sr)-Dissolved			97.8		%		80-120	04-NOV-15
Thallium (Tl)-Dissolved			98.1		%		80-120	04-NOV-15
Tin (Sn)-Dissolved			96.7		%		80-120	04-NOV-15
Titanium (Ti)-Dissolved			94.0		%		80-120	04-NOV-15
Tungsten (W)-Dissolved			96.1		%		80-120	04-NOV-15
Uranium (U)-Dissolved			99.4		%		80-120	04-NOV-15
Vanadium (V)-Dissolved			98.4		%		80-120	04-NOV-15
Zinc (Zn)-Dissolved			94.3		%		80-120	04-NOV-15
Zirconium (Zr)-Dissolved			94.8		%		80-120	04-NOV-15
WG2208128-1	**MB**							
Aluminum (Al)-Dissolved			<0.0050		mg/L		0.005	04-NOV-15
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-15
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-15
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-15
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-15
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-15
Boron (B)-Dissolved			<0.010		mg/L		0.01	04-NOV-15
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	04-NOV-15
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	04-NOV-15
Chromium (Cr)-Dissolved			<0.00050		mg/L		0.0005	04-NOV-15
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-15
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	04-NOV-15
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	04-NOV-15
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-15
Magnesium (Mg)-Dissolved			<0.050		mg/L		0.05	04-NOV-15

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WT	**Water**							
Batch	**R3306221**							
WG2208128-1	**MB**							
Manganese (Mn)-Dissolved			<0.00050		mg/L		0.0005	04-NOV-15
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-15
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	04-NOV-15
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	04-NOV-15
Potassium (K)-Dissolved			<0.050		mg/L		0.05	04-NOV-15
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-15
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	04-NOV-15
Silver (Ag)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-15
Sodium (Na)-Dissolved			<0.50		mg/L		0.5	04-NOV-15
Strontium (Sr)-Dissolved			<0.0010		mg/L		0.001	04-NOV-15
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	04-NOV-15
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-15
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	04-NOV-15
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-15
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	04-NOV-15
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	04-NOV-15
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	04-NOV-15
Zirconium (Zr)-Dissolved			<0.00030		mg/L		0.0003	04-NOV-15
WG2208131-1	**MB**							
Aluminum (Al)-Dissolved			<0.0050		mg/L		0.005	04-NOV-15
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-15
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-15
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-15
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-15
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-15
Boron (B)-Dissolved			<0.010		mg/L		0.01	04-NOV-15
Cadmium (Cd)-Dissolved			<0.000010		mg/L		0.00001	04-NOV-15
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	04-NOV-15
Chromium (Cr)-Dissolved			<0.00050		mg/L		0.0005	04-NOV-15
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-15
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	04-NOV-15
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	04-NOV-15
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-15
Magnesium (Mg)-Dissolved			<0.050		mg/L		0.05	04-NOV-15

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WT	**Water**							
Batch	**R3306221**							
WG2208131-1	**MB**							
Manganese (Mn)-Dissolved			<0.00050		mg/L		0.0005	04-NOV-15
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-15
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	04-NOV-15
Phosphorus (P)-Dissolved			<0.050		mg/L		0.05	04-NOV-15
Potassium (K)-Dissolved			<0.050		mg/L		0.05	04-NOV-15
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-15
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	04-NOV-15
Silver (Ag)-Dissolved			<0.000050		mg/L		0.00005	04-NOV-15
Sodium (Na)-Dissolved			<0.50		mg/L		0.5	04-NOV-15
Strontium (Sr)-Dissolved			<0.0010		mg/L		0.001	04-NOV-15
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	04-NOV-15
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-15
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	04-NOV-15
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	04-NOV-15
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	04-NOV-15
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	04-NOV-15
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	04-NOV-15
Zirconium (Zr)-Dissolved			<0.00030		mg/L		0.0003	04-NOV-15
WG2208128-5	**MS**	**WG2208128-3**						
Aluminum (Al)-Dissolved			93.8		%		70-130	04-NOV-15
Antimony (Sb)-Dissolved			96.7		%		70-130	04-NOV-15
Arsenic (As)-Dissolved			98.3		%		70-130	04-NOV-15
Barium (Ba)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Beryllium (Be)-Dissolved			89.6		%		70-130	04-NOV-15
Bismuth (Bi)-Dissolved			84.5		%		70-130	04-NOV-15
Boron (B)-Dissolved			85.2		%		70-130	04-NOV-15
Cadmium (Cd)-Dissolved			95.1		%		70-130	04-NOV-15
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Chromium (Cr)-Dissolved			93.7		%		70-130	04-NOV-15
Cobalt (Co)-Dissolved			92.8		%		70-130	04-NOV-15
Copper (Cu)-Dissolved			97.9		%		70-130	04-NOV-15
Iron (Fe)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Lead (Pb)-Dissolved			93.1		%		70-130	04-NOV-15
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	04-NOV-15

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WT	**Water**							
Batch R3306221								
WG2208128-5 MS		**WG2208128-3**						
Manganese (Mn)-Dissolved			89.1		%		70-130	04-NOV-15
Molybdenum (Mo)-Dissolved			95.4		%		70-130	04-NOV-15
Nickel (Ni)-Dissolved			90.7		%		70-130	04-NOV-15
Phosphorus (P)-Dissolved			105.5		%		70-130	04-NOV-15
Potassium (K)-Dissolved			91.1		%		70-130	04-NOV-15
Selenium (Se)-Dissolved			109.7		%		70-130	04-NOV-15
Silicon (Si)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Silver (Ag)-Dissolved			84.0		%		70-130	04-NOV-15
Sodium (Na)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Thallium (Tl)-Dissolved			94.4		%		70-130	04-NOV-15
Tin (Sn)-Dissolved			92.9		%		70-130	04-NOV-15
Titanium (Ti)-Dissolved			93.4		%		70-130	04-NOV-15
Tungsten (W)-Dissolved			95.3		%		70-130	04-NOV-15
Uranium (U)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Vanadium (V)-Dissolved			97.3		%		70-130	04-NOV-15
Zinc (Zn)-Dissolved			83.7		%		70-130	04-NOV-15
Zirconium (Zr)-Dissolved			90.5		%		70-130	04-NOV-15
WG2208131-5 MS		**WG2208131-3**						
Aluminum (Al)-Dissolved			83.9		%		70-130	04-NOV-15
Antimony (Sb)-Dissolved			95.5		%		70-130	04-NOV-15
Arsenic (As)-Dissolved			90.7		%		70-130	04-NOV-15
Barium (Ba)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Beryllium (Be)-Dissolved			89.2		%		70-130	04-NOV-15
Bismuth (Bi)-Dissolved			83.4		%		70-130	04-NOV-15
Boron (B)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Cadmium (Cd)-Dissolved			88.2		%		70-130	04-NOV-15
Calcium (Ca)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Chromium (Cr)-Dissolved			84.8		%		70-130	04-NOV-15
Cobalt (Co)-Dissolved			83.8		%		70-130	04-NOV-15
Copper (Cu)-Dissolved			90.9		%		70-130	04-NOV-15
Iron (Fe)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Lead (Pb)-Dissolved			90.9		%		70-130	04-NOV-15
Magnesium (Mg)-Dissolved			N/A	MS-B	%		-	04-NOV-15

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WT	**Water**							
Batch R3306221								
WG2208131-5 MS		**WG2208131-3**						
Manganese (Mn)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Molybdenum (Mo)-Dissolved			93.9		%		70-130	04-NOV-15
Nickel (Ni)-Dissolved			80.6		%		70-130	04-NOV-15
Phosphorus (P)-Dissolved			102.1		%		70-130	04-NOV-15
Potassium (K)-Dissolved			78.5		%		70-130	04-NOV-15
Selenium (Se)-Dissolved			109.2		%		70-130	04-NOV-15
Silicon (Si)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Silver (Ag)-Dissolved			81.4		%		70-130	04-NOV-15
Sodium (Na)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Strontium (Sr)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Thallium (Tl)-Dissolved			93.1		%		70-130	04-NOV-15
Tin (Sn)-Dissolved			86.7		%		70-130	04-NOV-15
Titanium (Ti)-Dissolved			85.9		%		70-130	04-NOV-15
Tungsten (W)-Dissolved			92.8		%		70-130	04-NOV-15
Uranium (U)-Dissolved			N/A	MS-B	%		-	04-NOV-15
Vanadium (V)-Dissolved			90.0		%		70-130	04-NOV-15
Zinc (Zn)-Dissolved			75.7		%		70-130	04-NOV-15
Zirconium (Zr)-Dissolved			87.3		%		70-130	04-NOV-15
NH3-WT	**Water**							
Batch R3306633								
WG2208520-11 DUP		**L1697979-17**						
Ammonia, Total (as N)		0.062	0.053		mg/L	16	20	05-NOV-15
WG2208520-7 DUP		**L1697885-1**						
Ammonia, Total (as N)		0.055	<0.050	RPD-NA	mg/L	N/A	20	05-NOV-15
WG2208520-10 LCS								
Ammonia, Total (as N)			101.8		%		85-115	05-NOV-15
WG2208520-6 LCS								
Ammonia, Total (as N)			98.4		%		85-115	05-NOV-15
WG2208520-5 MB								
Ammonia, Total (as N)			<0.050		mg/L		0.05	05-NOV-15
WG2208520-9 MB								
Ammonia, Total (as N)			<0.050		mg/L		0.05	05-NOV-15
WG2208520-12 MS		**L1697979-17**						
Ammonia, Total (as N)			102.6		%		75-125	05-NOV-15
WG2208520-8 MS		**L1697885-1**						

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH3-WT	**Water**							
Batch R3306633								
WG2208520-8 MS		**L1697885-1**						
Ammonia, Total (as N)			99.4		%		75-125	05-NOV-15
NO2-IC-WT	**Water**							
Batch R3306991								
WG2208098-3 DUP		**L1697690-1**						
Nitrite (as N)		<0.010	0.017	RPD-NA	mg/L	N/A	25	05-NOV-15
WG2208098-8 DUP		**L1697979-12**						
Nitrite (as N)		<0.010	<0.010	RPD-NA	mg/L	N/A	25	05-NOV-15
WG2208098-2 LCS								
Nitrite (as N)			111.1		%		70-130	05-NOV-15
WG2208098-6 LCS								
Nitrite (as N)			106.8		%		70-130	05-NOV-15
WG2208098-1 MB								
Nitrite (as N)			<0.010		mg/L		0.01	05-NOV-15
WG2208098-5 MB								
Nitrite (as N)			<0.010		mg/L		0.01	05-NOV-15
WG2208098-4 MS		**L1697690-1**						
Nitrite (as N)			91.8		%		70-130	05-NOV-15
WG2208098-7 MS		**L1697979-12**						
Nitrite (as N)			85.5		%		70-130	05-NOV-15
NO3-IC-WT	**Water**							
Batch R3306991								
WG2208098-3 DUP		**L1697690-1**						
Nitrate (as N)		0.504	0.488		mg/L	3.1	25	05-NOV-15
WG2208098-8 DUP		**L1697979-12**						
Nitrate (as N)		0.024	<0.020	RPD-NA	mg/L	N/A	25	05-NOV-15
WG2208098-2 LCS								
Nitrate (as N)			101.7		%		70-130	05-NOV-15
WG2208098-6 LCS								
Nitrate (as N)			98.5		%		70-130	05-NOV-15
WG2208098-1 MB								
Nitrate (as N)			<0.020		mg/L		0.02	05-NOV-15
WG2208098-5 MB								
Nitrate (as N)			<0.020		mg/L		0.02	05-NOV-15
WG2208098-4 MS		**L1697690-1**						
Nitrate (as N)			96.6		%		70-130	05-NOV-15
WG2208098-7 MS		**L1697979-12**						

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NO3-IC-WT	**Water**							
Batch R3306991								
WG2208098-7 MS		**L1697979-12**						
Nitrate (as N)			95.7		%		70-130	05-NOV-15
PH-WT	**Water**							
Batch R3305833								
WG2207713-12 DUP		**WG2207713-11**						
pH		7.62	7.68	J	pH units	0.07	0.2	04-NOV-15
WG2207713-15 DUP		**WG2207713-14**						
pH		7.86	7.78	J	pH units	0.08	0.2	04-NOV-15
WG2207713-9 DUP		**WG2207713-8**						
pH		7.55	7.55	J	pH units	0.00	0.2	04-NOV-15
WG2207713-10 LCS								
pH			6.99		pH units		6.9-7.1	04-NOV-15
WG2207713-13 LCS								
pH			7.00		pH units		6.9-7.1	04-NOV-15
WG2207713-7 LCS								
pH			6.99		pH units		6.9-7.1	04-NOV-15
PO4-DO-COL-WT	**Water**							
Batch R3308258								
WG2209947-3 DUP		**L1697979-1**						
Phosphate-P (ortho)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	06-NOV-15
WG2209947-7 DUP		**L1697979-21**						
Phosphate-P (ortho)		<0.0030	<0.0030	RPD-NA	mg/L	N/A	20	06-NOV-15
WG2209947-2 LCS								
Phosphate-P (ortho)			90.8		%		80-120	06-NOV-15
WG2209947-6 LCS								
Phosphate-P (ortho)			107.9		%		80-120	06-NOV-15
WG2209947-1 MB								
Phosphate-P (ortho)			<0.0030		mg/L		0.003	06-NOV-15
WG2209947-5 MB								
Phosphate-P (ortho)			<0.0030		mg/L		0.003	06-NOV-15
WG2209947-4 MS		**L1697979-1**						
Phosphate-P (ortho)			100.0		%		70-130	06-NOV-15
WG2209947-8 MS		**L1697979-21**						
Phosphate-P (ortho)			89.1		%		70-130	06-NOV-15
SO4-IC-N-WT	**Water**							

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SO4-IC-N-WT	**Water**							
Batch R3306991								
WG2208098-3 DUP		**L1697690-1**						
Sulfate (SO4)		42.4	41.6		mg/L	1.9	20	05-NOV-15
WG2208098-8 DUP		**L1697979-12**						
Sulfate (SO4)		10.0	9.62		mg/L	4.2	20	05-NOV-15
WG2208098-2 LCS								
Sulfate (SO4)			103.0		%		90-110	05-NOV-15
WG2208098-6 LCS								
Sulfate (SO4)			99.2		%		90-110	05-NOV-15
WG2208098-1 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	05-NOV-15
WG2208098-5 MB								
Sulfate (SO4)			<0.30		mg/L		0.3	05-NOV-15
WG2208098-4 MS		**L1697690-1**						
Sulfate (SO4)			94.3		%		75-125	05-NOV-15
WG2208098-7 MS		**L1697979-12**						
Sulfate (SO4)			96.2		%		75-125	05-NOV-15
SOLIDS-TDS-WT	**Water**							
Batch R3306559								
WG2208325-3 DUP		**L1697979-1**						
Total Dissolved Solids		360	352		mg/L	2.2	20	05-NOV-15
WG2208325-2 LCS								
Total Dissolved Solids			91.1		%		85-115	05-NOV-15
WG2208325-1 MB								
Total Dissolved Solids			<10		mg/L		10	05-NOV-15
Batch R3308603								
WG2210021-3 DUP		**L1697979-18**						
Total Dissolved Solids		340	353		mg/L	3.9	20	07-NOV-15
WG2210021-2 LCS								
Total Dissolved Solids			92.8		%		85-115	07-NOV-15
WG2210021-1 MB								
Total Dissolved Solids			<10		mg/L		10	07-NOV-15
TURBIDITY-WT	**Water**							
Batch R3305708								
WG2207941-3 DUP		**L1697979-1**						
Turbidity		62.2	61.8		NTU	0.6	15	04-NOV-15
WG2207941-6 DUP		**L1697979-21**						
Turbidity		104	95.9		NTU	8.1	15	04-NOV-15
WG2207941-2 LCS								

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8

Contact: BRETON LEMIEUX

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
TURBIDITY-WT	**Water**							
Batch R3305708								
WG2207941-2 LCS								
Turbidity			100.0		%		85-115	04-NOV-15
WG2207941-5 LCS								
Turbidity			101.0		%		85-115	04-NOV-15
WG2207941-1 MB								
Turbidity			<0.10		NTU		0.1	04-NOV-15
WG2207941-4 MB								
Turbidity			<0.10		NTU		0.1	04-NOV-15

Quality Control Report

Workorder: L1697979 Report Date: 12-NOV-15

Client: BLUEWATER GEOSCIENCE
90 LYNNHAVEN COURT
KITCHENER ON N2M 5L8
Contact: BRETON LEMIEUX

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L1697979-COFC

COC Number: 14 - 464579

Page 1 of 3

Report To		Report Format / Distribution		...ow (Rush Turnaround Time (TAT) is not available for all tests)	
Company:	Bluewater Geoscience	Select Report Format:	☒ PDF ☐ EXCEL ☐ EDD (DIGITAL)	R ☒	Regular (Standard TAT if received by 3pm)
Contact:	Bilemieux	Quality Control (QC) Report with Report	☒ Yes ☐ No	P ☐	Priority (2-4 business days if received by 3pm)
Address:		☒ Criteria on Report - provide details below if box checked		E ☐	Emergency (1-2 business days if received by 3pm)
		Select Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	E2 ☐	Same day or weekend emergency if received by 10am – contact ALS for surcharge.
Phone:		Email 1 or Fax		Specify Date Required for E2,E or P:	
		Email 2			

Invoice To		Invoice Distribution	
Same as Report To	☒ Yes ☐ No	Select Invoice Distribution:	☒ EMAIL ☐ MAIL ☐ FAX
Copy of Invoice with Report	☐ Yes ☒ No	Email 1 or Fax	
Company:		Email 2	
Contact:			

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:	Q 14275	Approver ID:	Cost Center:
Job #:	BG 530	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): NOV4B L1697979 OJ

ALS Contact: Nellie

Sampler: BJL

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Gen. Chem Pkg. 1	Number of Containers
1	OW-1	04/11/15		GW	X	4
2	OW-2S					
3	OW-2D					
4	OW-3S					
5	OW-3D					
6	OW-5					
7	OW-6S					
8	OW-6D					
9	OW-7S					
10	OW-7D					
11	OW-8					
12	OW-9S					

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ Yes ☒ No

Are samples for human drinking water use? ☐ Yes ☒ No

Special Instructions / Specify Criteria to add on report (client Use)

ODWS - SCS
Metals are filt'd/pres'd
NH4 is pres'd

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐
Ice packs Yes ☒ No ☐ Custody seal intact Yes ☐ No ☐
Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
			8.5	8.9	9.2

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: BJL	Date: Nov 4/15	Time:	Received by:	Date:	Time:	Received by: [signature]	Date: Nov 4, 15	Time: 13:05

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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NA-FM-0328e v08 Front/03 October 2013

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L1697979-COFC

COC Number: 14 - 397022

Report To		Report Format / Distribution		Below (Rush Turnaround Time (TAT) is not available for all tests)
Company:	Bluewater Geoscience	Select Report Format:	[X] PDF [ ] EXCEL [ ] EDD (DIGITAL)	R [X] Regular (Standard TAT if received by 3pm)
Contact:	B'LEMIEUX	Quality Control (QC) Report with Report	[X] Yes [ ] No	P [ ] Priority (2-4 business days if received by 3pm)
Address:		[X] Criteria on Report - provide details below if box checked		E [ ] Emergency (1-2 business days if received by 3pm)
		Select Distribution:	[X] EMAIL [ ] MAIL [ ] FAX	E2 [ ] Same day or weekend emergency if received by 10am – contact ALS for surcharge.
Phone:		Email 1 or Fax		Specify Date Required for E2,E or P:
		Email 2		

Invoice To		Invoice Distribution	
Same as Report To	[X] Yes [ ] No	Select Invoice Distribution:	[X] EMAIL [ ] MAIL [ ] FAX
Copy of Invoice with Report	[ ] Yes [X] No	Email 1 or Fax	
Company:		Email 2	
Contact:			

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:	Q - 14275	Approver ID:	Cost Center:
Job #:	BG-530	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): N004B L1697979 cal

ALS Contact: Nellie

Sampler: BJL

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Gen. Chem. Pkg 1	Number of Containers
13	OW - 9D	04/11/15		GW	X	4
14	OW - 10S					
15	OW - 10D					
16	OW - 12S					
17	OW - 12D					
18	OW - 13S					
19	OW - 13D					
20	OW - 15S					
21	OW - 15D					
22	OW - 16S					
23	OW - 16D					
24	OW - ~~[illegible]~~ 18S					

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report (client Use)
Are samples taken from a Regulated DW System? [ ] Yes [X] No	
Are samples for human drinking water use? [ ] Yes [X] No	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen [ ]		SIF Observations	Yes [ ] No [ ]
Ice packs	Yes [X] No [ ]	Custody seal intact	Yes [ ] No [ ]
Cooling Initiated [ ]			

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
			8.5	8.9	9.2

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: BJL	Date: Nov 14/15	Time:	Received by:	Date:	Time:	Received by: [signature]	Date: Nov 4, 15	Time: 13:05

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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NA-FM-0326e v08 Front/03 October 2013

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L1697979-COFC

COC Number: 14 - 464576

Report To		Report Form		Level Below (Rush Turnaround Time (TAT) is not available for all tests)
Company:	Bluewater Geoscience	Select Report Format:	[X] PDF [ ] EXCEL [ ] EDD (DIGITAL)	R [X] Regular (Standard TAT if received by 3pm)
Contact:	B. Lemieux	Quality Control (QC) Report with Report	[X] Yes [ ] No	P [ ] Priority (2-4 business days if received by 3pm)
Address:		[X] Criteria on Report - provide details below if box checked		E [ ] Emergency (1-2 business days if received by 3pm)
		Select Distribution:	[X] EMAIL [ ] MAIL [ ] FAX	E2 [ ] Same day or weekend emergency if received by 10am – contact ALS for surcharge.
Phone:		Email 1 or Fax		Specify Date Required for E2,E or P:
		Email 2		

Invoice To		Invoice Distribution	
Same as Report To	[X] Yes [ ] No	Select Invoice Distribution:	[X] EMAIL [ ] MAIL [ ] FAX
Copy of Invoice with Report	[ ] Yes [X] No	Email 1 or Fax	
Company:		Email 2	
Contact:			

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:	Q-14275	Approver ID:	Cost Center:
Job #:	BG-530	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): N004B L1697979 cof

ALS Contact: Nellie

Sampler: BJL

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Gen. Chem Pkg. 1	Number of Containers
25	OW-18D	04/11/15		GW	X	4
26	OW-19S	↓		↓	X	4
27	OW-20S				X	4
28	OW-20D				X	4
29	OW-21S				X	4
30	OW-21D				X	4

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report (client Use)
Are samples taken from a Regulated DW System? [ ] Yes [X] No	ODWS
Are samples for human drinking water use? [ ] Yes [X] No	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen [ ]		SIF Observations	Yes [ ] No [ ]
Ice packs	Yes [X] No [ ]	Custody seal intact	Yes [ ] No [ ]
Cooling Initiated [ ]			

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
			8.5	8.9	9.2

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: BJL	Date: 04/11/15	Time:	Received by:	Date:	Time:	Received by: [signature]	Date: Nov 4, 15	Time: 13:05

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

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Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.