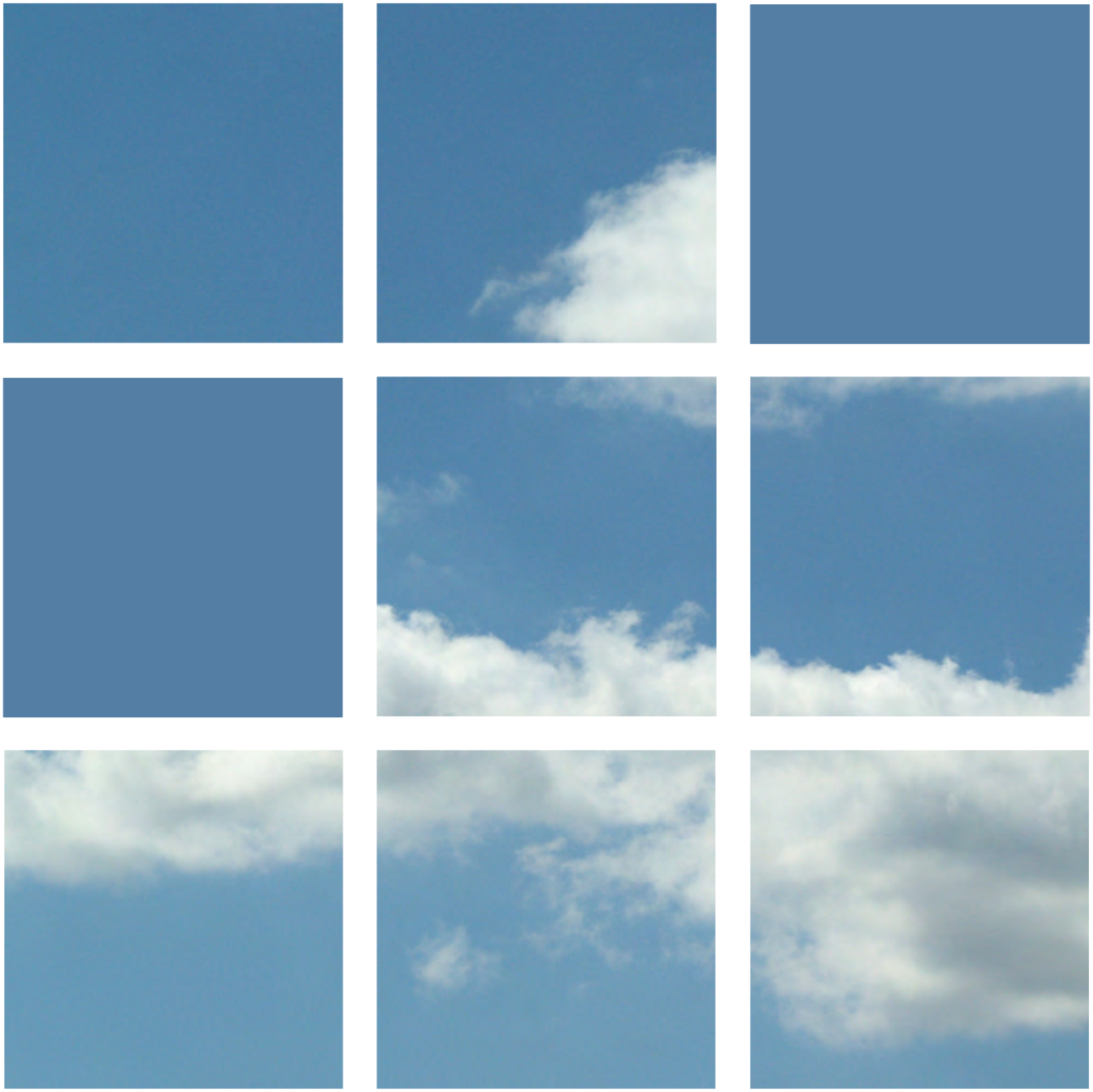
Site C
Former Belfast Gasworks

Preliminary Risk Assessment Report

IBR0944/November 2016



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Contents

1 Introduction ... 1
1.1 Planning history & previous assessments ... 1
1.2 Development proposals ... 2
1.3 Report objectives and scope ... 2
1.4 Sources of information ... 2
1.5 Limitations ... 3
2 Site description ... 4
2.1 Introduction ... 4
2.2 Existing layout ... 5
2.3 Surrounding Land-use ... 6
3 Site history ... 7
3.1 Ordnance Survey (OS) maps & historical development of the site ... 7
4 Site geology and hydrogeology ... 9
4.1 Site geology ... 9
4.2 Hydrogeology ... 11
4.3 Groundwater vulnerability ... 12
4.4 Surface water hydrology ... 13
5 Regulatory authority and planning response enquiries ... 14
5.1 Desk study responses ... 14
6 Ground conditions encountered during previous assessments ... 17
6.1 Previous ground investigation ... 17
6.2 Ground conditions ... 18
6.3 Groundwater conditions ... 18
6.4 Observation of potential contaminants in soil and groundwater ... 19
7 Previous assessment - Summary ... 21
7.1 Generic Quantitative Risk Assessment ... 21
7.1.1 Sub-soils ... 21
7.1.2 Groundwater ... 21
7.1.3 Ground Gas & Vapours ... 22
7.1.4 Conceptual Model ... 22
8 Information provided by Belfast City Council ... 23
8.1 Land Quality Management ... 23
8.2 Groundwater monitoring 2015 and 2016 ... 23
9 Overview of potential contamination ... 25
9.1 Introduction ... 25
9.2 On Site Sources ... 25
9.2.1 Soil ... 25
9.2.2 Groundwater and Surface Water ... 25
9.2.3 Ground Borne Gases & Vapours ... 27
9.3 Off Site Sources ... 27
10 Conceptual site model and risk assessment ... 28
10.1 Conceptual Site Model ... 28
11 Conclusions and recommendations ... 31
11.1 Conclusions ... 31
11.2 Recommendations ... 31

Figures

Figure 1 Site location
Figure 2 Site layout
Figure 3 Solid geology (taken from GSNI's GeoIndex)
Figure 4 Drift geology (taken from GSNI's GeoIndex)
Figure 5 Bedrock aquifer (taken from GSNI's GeoIndex)
Figure 6 Groundwater vulnerability (taken from GSNI's GeoIndex)
Figure 7 Surface water hydrology
Figure 8 Previous site investigation (GES 2009)
Figure 9 All site investigation locations

Tables

Table 1 Application site details
Table 2 Surrounding land uses
Table 3 Historical site development
Table 4 NIEA Database listings
Table 5 Visual and olfactory observation of contaminants during excavation
Table 6 2009 Groundwater Screening Results
Table 7 2015/2016 Groundwater & Surface Water Screening Results
Table 8 Refined Risk Assessment & Site Conceptual Model

Appendices

Appendix A Proposed development layout
Appendix B Historic maps
Appendix C Consultation responses
Appendix D Updated screening tables

1 Introduction

RPS was appointed by Strategic Planning on behalf of Inislyn Ltd to undertake a Desk Study in support of a planning application for the re-development of Site C, in the Northern Fringe of the former Gasworks site in Belfast.

This report describes the research and assessments undertaken to assess the ground conditions and potential for any ground contamination that may have arisen from the site's historical use.

1.1 Planning history & previous assessments

In 1988 the gasworks were closed and the first stage of decommissioning, demolition and decontamination was carried out under the supervision of McAdam Design. These works were completed in 1992. Following these works Parkman wrote a report for Laganside Corporation entitled BELFAST GASWORKS PHYSICAL APPRAISAL – Feasibility Study Report, Post Demolition Survey. This report included a desk study and a post demolition survey. We have not been able to obtain a copy of this report however the report's findings are summarised in the Parkman closing reports for remediation at Belfast gasworks site.

Belfast Gasworks Stage 1, Stage 1 Closing Report for Remediation at Belfast Gasworks Site (1994 to 1995), Prepared for Belfast City Council. Report Number 14101/OR/10F, 31st January 1997.

Belfast Gasworks Stage 2, Stage 2 Closing Report for Remediation at Belfast Gasworks Site (1996 to 1997), Final Report Prepared for Belfast City Council. Report Number 14128/OR/10E, 1st June 1998.

A multitude of further reports have been produced discussing land contamination at the Belfast Gasworks site. These are summarised in Appendix 1 of the October 2012 Land Quality Management Report, which summarised potential risks across the site.

Preliminary Risk Assessment for Land Contamination on the Site of the Former Belfast Gasworks, for Belfast City Council. Report Number 1083-0, October 2012.

LQM were also commissioned by Belfast City Council to produce a 'Way Forward' document.

Stage 3 Way Forward, Belfast Gasworks, for Belfast City Council. Report Number 1083-0/2, November 2012.

RPS have also previously completed a Preliminary Risk Assessment and Generic Quantitative Risk Assessment in 2009 on behalf of Belfast City Council for the 'Northern Fringe' Gasworks masterplan;

- Northern Fringe Masterplan Belfast Gasworks - Phase 1 Desk Study Report - RPS IBP0082 August 2008.
- Northern Fringe Masterplan Belfast Gasworks - Phase II Contamination Assessment Report - RPS IBP0082 November 2009.

1.2 Development proposals

The development proposals at the time of writing of this report are for the erection of a 4/6 storey office building and a multi storey car park, with associated car-parking, access arrangements, landscaping and general site works. A proposed development layout is presented in Appendix A.

1.3 Report objectives and scope

The objectives of this report are as follows:

- Collate desk study information regarding the site and surrounds to allow the identification of potential contaminant sources, potential pathways and potential receptors in accordance with DEFRA's Contaminated Land Report 11. This will form the basis of the preliminary risk assessment and production of a Conceptual Site Model (CSM).
- Collation of existing geo-environmental data to facilitate a risk assessment with regards to potential risks to human health and environmental risks.
- Assessment of the above to determine if remedial measures will be necessary.

1.4 Sources of information

Sources of information used in the production of this report include:

- Geological Survey Northern Ireland (GSNI) 1:250000 Geology Maps (Solid and Drift)
- Ordnance Survey Maps obtained from Land Property Services (NI)
- BGS Hydrogeological Map of Northern Ireland, Scale 1:250,000, 1994

- BGS Groundwater Vulnerability Map of Northern Ireland, Scale 1:250,000
- Internet based aerial photography
- Site walkover survey
- Consultation with statutory bodies
- British Geological Survey – GeoIndex Report Online Database
- Previous assessments as highlighted in Section 1.1

1.5 Limitations

This report is for the use of Inislyn Ltd (c/o Strategic Planning) only and should not be relied upon by other parties unless specifically advised by RPS in writing. Furthermore, new information, design changes, changed practices or new legislation may necessitate revised interpretation of the report after its date of submission.

This report has been prepared by RPS on the basis of the available information received during the study period. Although every reasonable effort has been made to obtain all relevant information, all potential contaminants, environmental constraints or liabilities associated with the site may not necessarily have been revealed.

2 Site description

2.1 Introduction

The site is located approximately 0.5km south of Belfast City centre and can be accessed via Cromac Place, off the Ormeau Road. The site is contained with the former Belfast Gasworks site which has witnessed a lot of redevelopment in recent years.

Figure 1 Site location

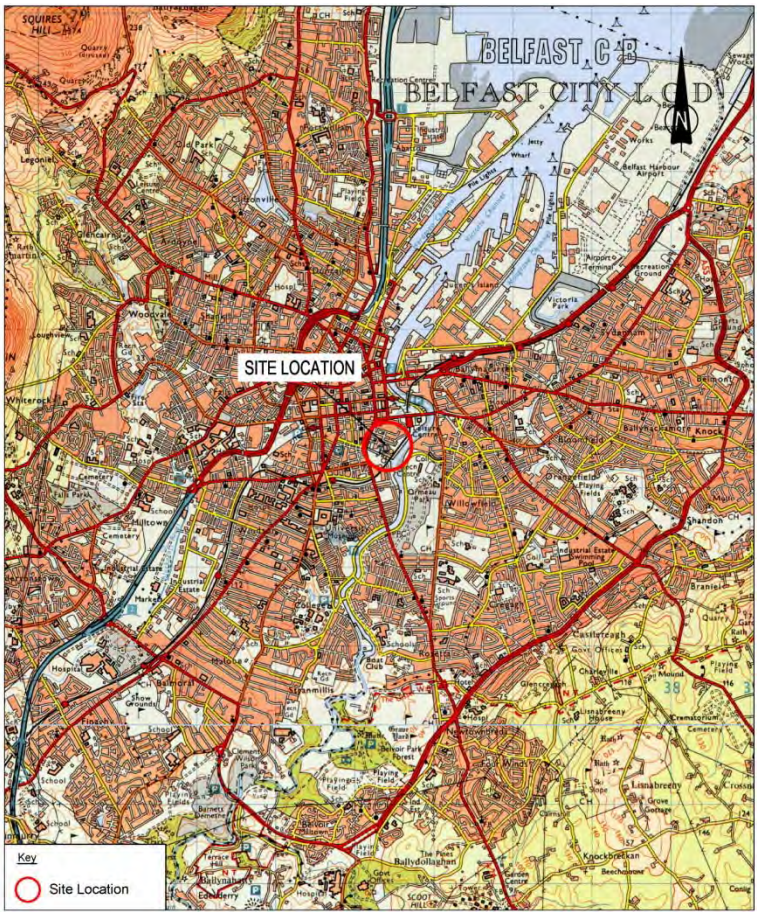
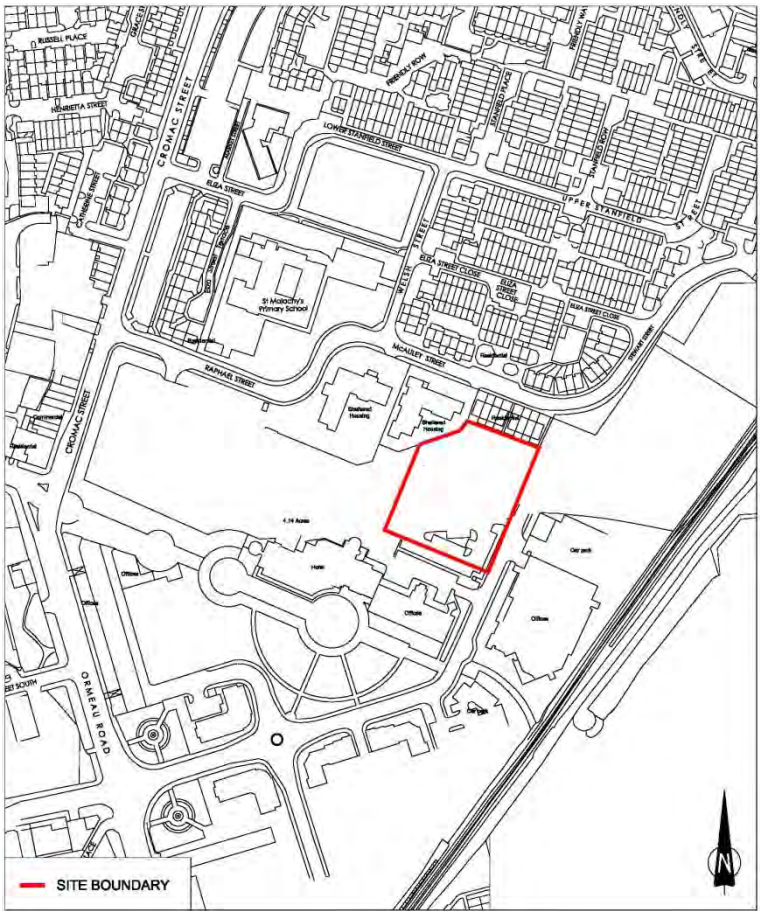


Figure 2 Site layout



2.2 Existing layout

The site is currently mainly undeveloped and is used as a car parking area. A small area to the south of the site forms official car parking for the Radisson Blu Hotel, and is segregated off from the remainder of the site via fencing. The remainder of the site has been undeveloped since remedial activities were undertaken in the 1990s, and is finished in grizzly bar/blinding. Over time numerous native plant species have established themselves in the area; a few pieces of broken ceramics and bricks are littered around the site.

As shown in Figure 2, the Radisson Blu Hotel is present directly south of the site, with a large water feature further south. The water feature was established on site following remediation of the majority of the gasworks site and is fed via water from the River Lagan, through a culvert and weir system.

The area to the east of the site is used as a car park by Belfast City Council (BCC) for staff in the locality. A BCC carpark representative indicated that the carpark has been in operation since March 2007. The carpark is finished in tarmac and was relocated from the

neighbouring site area to make way for the Belfast sewers project. The BCC representative indicated that no materials were excavated or removed from the site prior to the new carpark being established. The levels on the site would indicate that no materials have been removed.

To the south east of the site is a multi storey carpark associated with the Halifax Building. A residential area is present to the north of the site, including sheltered housing developments.

Table 1 Application site details

Site location	Lands on the Northern Fringe of the former Belfast Gasworks site
Approximate grid reference	334312E 373507N
Estimated site area	5,400m^2

2.3 Surrounding Land-use

The pertinent surrounding land uses of the site are listed in Table 2.

Table 2 Surrounding land uses

Boundary	Land Use
North	The site is bounded to the north by residential properties with St Malachy's Primary School present to the north west.
East	The east of the site is bounded by car parking; an open car park to the north east and a multi-storey car park to the south east. The Halifax building is present further south east.
South	The south of the site is the redeveloped Gasworks precinct which has been regenerated over the last 10 years. The Radisson Blu hotel is located directly south of the site.
West	An open, undeveloped area is present directly west of the site. The area further west was used during the Belfast sewers project.

3 Site history

3.1 Ordnance Survey (OS) maps & historical development of the site

A review of available historical ordnance survey maps was undertaken to determine if the site has had any potentially contaminating activities during its history of development.

Table 3 Historical site development

Date	Site history	Surrounding land use history
1832-1833	Site undeveloped	Brickfields are present to the west and north of the site. A watercourse bounds the site to the south, with the gasworks directly beyond. The Lagan is present east of the site.
1832-1833	Site undeveloped	An iron works, surrounded by residential development is present to the north of the site. A steam saw mill is present west of the site. The gasworks remain beyond the watercourse south of the site.
1858	Site developed with a number of buildings including an abattoir.	The gasworks remain beyond the watercourse south of the site. Buildings of unknown use are shown to the north and west of the site. The Great Northern Railway line is shown to the east of the site with the River Lagan beyond.
1901-1902	Number of buildings on site reduced. Large tank present on site with gasworks buildings present to the south.	Chemical works are shown to the west of the site. A bakery is present to the north of the site, with an undeveloped area present to the east. The railway line is present further east, with the River Lagan beyond. The gasworks extend beyond the watercourse (Blackstaff River) south of the site.
1938	Further gas works buildings present south of the large tank.	As above.
1962-1973	As above.	Building use surrounding the site is not shown and so is unknown. A tank has been developed on the land east of the site.
1984 (aerial photo)	Large tank present on site with gasworks buildings present to the south.	What is assumed to be residential development bounds the site to the north and north west. An open area is present directly west of the site. Another large tank is present to the east of the site with further gasworks buildings present south of the Blackstaff River.

Summary

The old Belfast Ormeau Road Gasworks was established c.1822, south of the Blackstaff River. The gasworks continued to expand up until the end of the 19th Century. During the early 20th Century the gasworks began to extend to the north bank of the Blackstaff River to the site currently under investigation known as the northern fringe of the gasworks precinct.

By the early 1900s a large gas holder was present on site. A second large gas holder was built to the east of the site prior to the Second World War. These gas holders were known as gas holders no. 7 and no. 8.

In the mid 1960s gas production at the gasworks ceased and the site was used for storage and other non production operations. In 1988 the gasworks were closed, since which the site has undergone decommissioning and remediation. Historic maps including the location of the current application site are included within Appendix B.

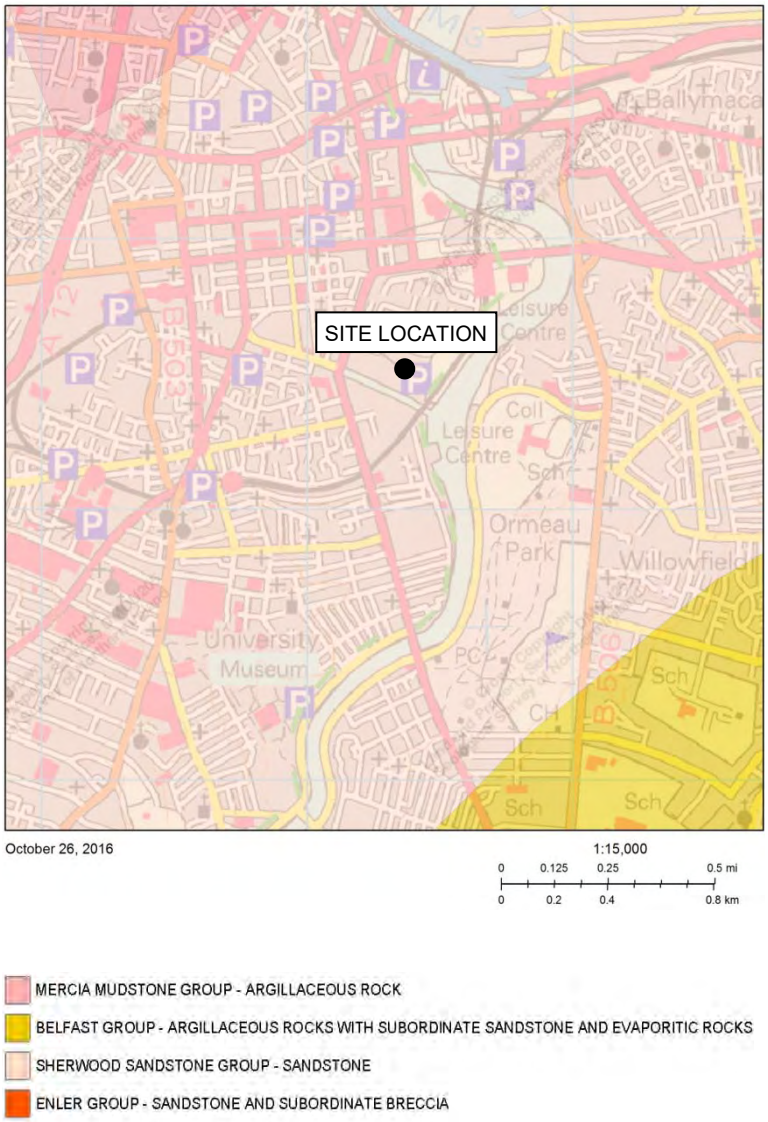
4 Site geology and hydrogeology

4.1 Site geology

A desk study of material held online by the Geological Survey of Northern Ireland at its GeoIndex portal was undertaken to provide an initial overview of ground conditions at the site. The following describes the findings of the preliminary research.

Solid geology

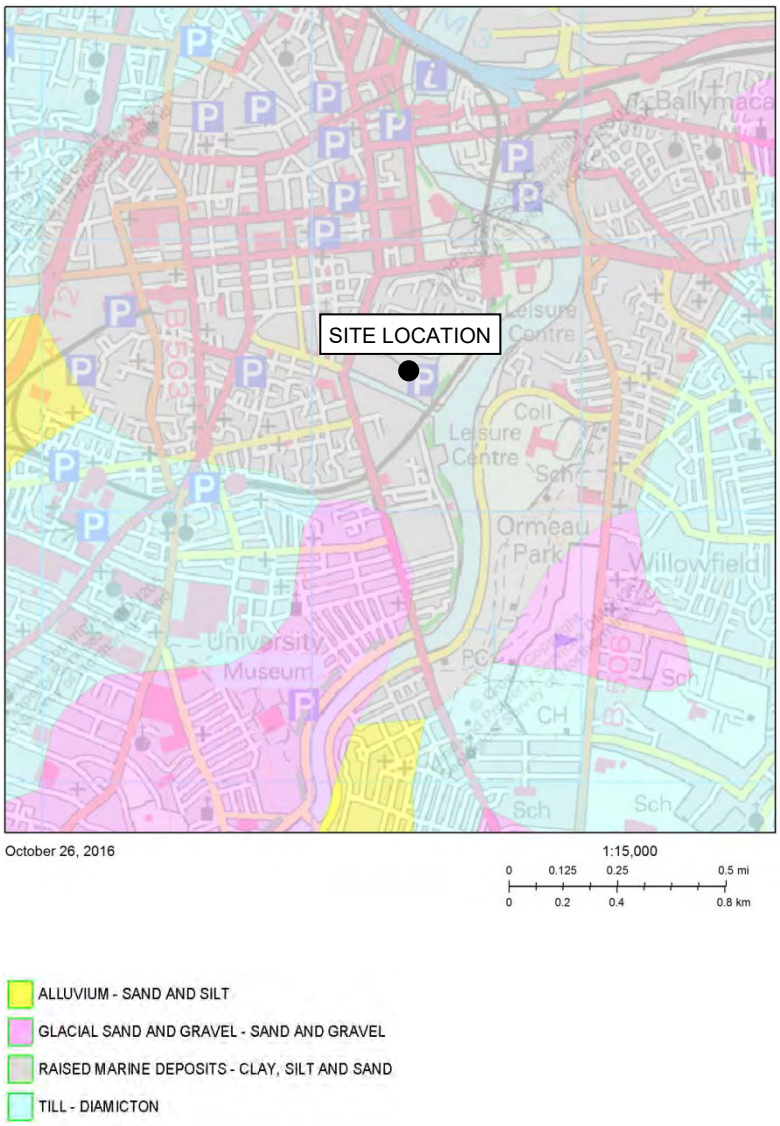
Figure 3 Solid geology (taken from GSNI's GeoIndex)



The Geological Map for the area (Figure 3) indicates that the site is underlain by the Sherwood Sandstone Group. Typically the Sherwood Sandstone is a weak, reddish brown, fine to medium grained sedimentary rock weathered near the surface into dense sand.

Drift geology

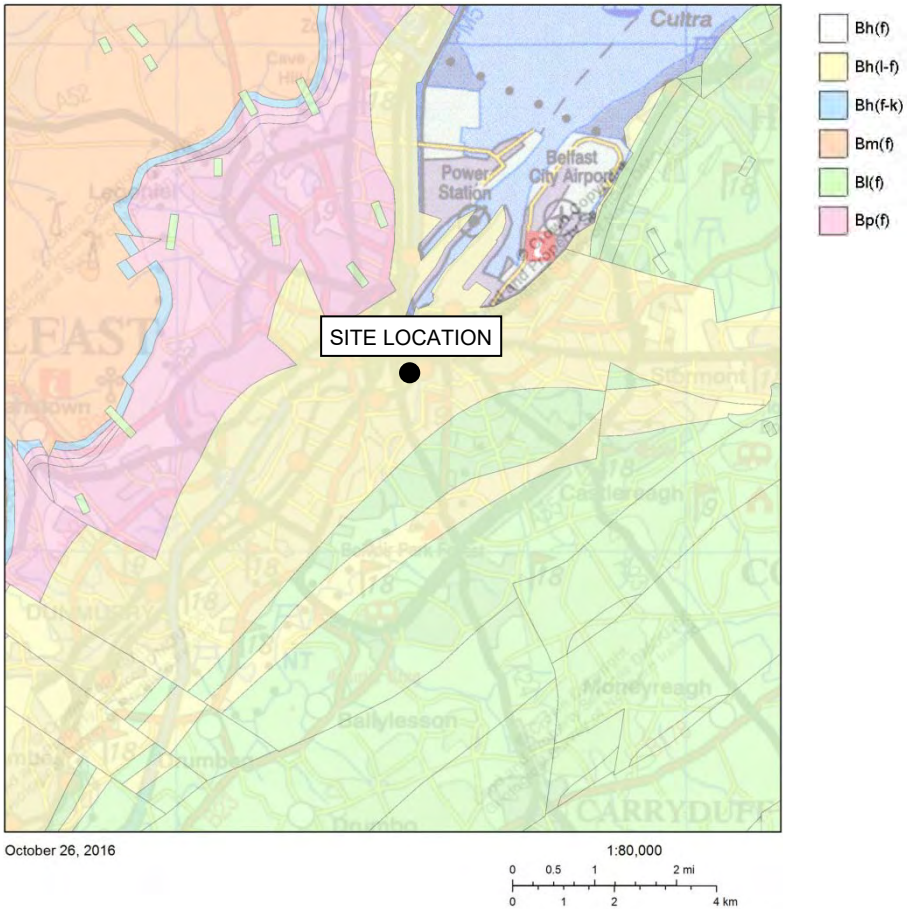
Figure 4 Drift geology (taken from GSNI's GeoIndex)



The drift deposits beneath the area comprise of Raised Marine Deposits in the form of clay, silt and sand.

4.2 Hydrogeology

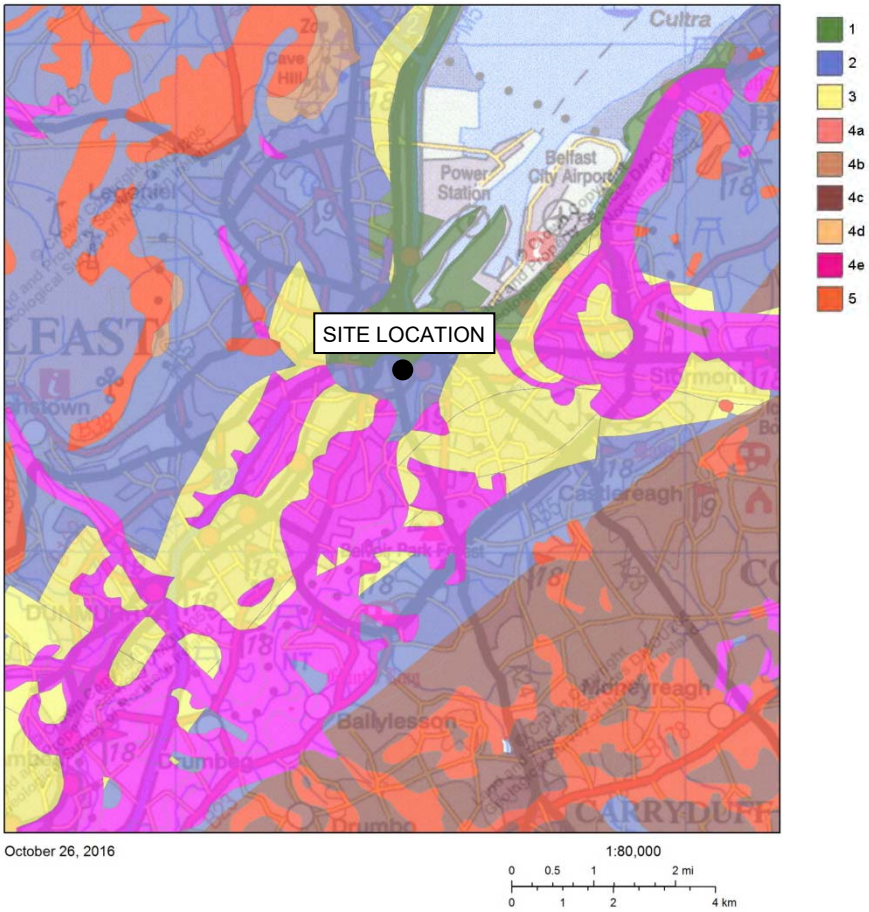
Figure 5 Bedrock aquifer (taken from GSNI's GeoIndex)



The Hydrogeological Map of Northern Ireland Scale 1:250 000 indicates that the site falls within the Bh(l-f) classification. This represents high potential productivity with fracture/intergranular flow. High to moderate yields are probable, however part dependence on fracture flow also makes poorer yields possible. Dual porosity would be anticipated, as would an element of regional flow.

4.3 Groundwater vulnerability

Figure 6 Groundwater vulnerability (taken from GSNI's GeoIndex)



In accordance with the Water Framework Directive (2000/60/EC) it is necessary to understand the groundwater vulnerability of the site, which is defined as the tendency and likelihood for general contaminants to reach the water table after introduction at the ground surface. The vulnerability classification is divided into 5 categories with Class 1 areas having the lowest risk of groundwater pollution and Class 5 the highest.

The site falls within a classification 2 area representing reasonably low groundwater vulnerability.

4.4 Surface water hydrology

Figure 7 Surface water hydrology

The Blackstaff River is located approximately 60m south of the site. The Lagan Estuary is present approximately 130m east of the site.

5 Regulatory authority and planning response enquiries

5.1 Desk study responses

As part of the desk study process, requests for available information were made to the various statutory bodies. The responses received are included in Appendix C and are summarised below.

Northern Ireland Environment Agency (NIEA) – Land Use Database

The Northern Ireland Environment Agency Database identifies a number of past industrial land-uses within a 250m radius of the site, which are listed as possible sources of ground contamination. The locations are listed in Table 4.

Table 4 NIEA Database listings

Location	Site ID	Past uses	Description
51-57 McAuley Street 334353E 373607N 55m north west of site	USS-105	McAuley Street Metals (current use)	Waste recycling, treatment and disposal sites: metal recycling sites
McAuley Street 334380E 373630N 65m north of site	10233:000:00	Spinning mill (date not given)	Textile works and dye works
McAuley Street 334400E 373630N 67m north of site	BT130/171	1834 – Agriculture 1856 – Iron works 1904 – Unspecified building 1930 – Bakery 1983 – Unspecified building	Metal manufacturing, refining and finishing works: iron and steel works
McAuley Street 334460E 373600N 59m north east of site	10232:000:00	Belfast Iron Works (date not given)	Metal manufacturing, refining and finishing works: iron and steel works
Eliza Street 334330E 373700N 151m north west of site	10137:000:00	Ribbon Manufactory (date not given)	Textile works and dye works

Location	Site ID	Past uses	Description
McAuley Street 334220E 373630N 150m west of site	10142:000:00	Match factory (date not given)	Chemical works: explosives, propellants and pyrotechnics manufacturing works
Eliza Street 334250E 373740N 220m north west of site	10138:000:00	Tile works (date not given)	Ceramics, cement and asphalt manufacturing works
Lagan Street 334434E 373769N 210m north of site	BT130/172	1834 – Agriculture 1856 – Weaving factory 1904 – Unspecified building 1930 – Unspecified building 1983 – Unspecified bulding	Textile works and dye works
Stanfield Street 334530E 373710N 189m north east of site	10135:000:00	Cromac Foundry (date not given)	Metal manufacturing, refining and finishing works: iron and steel works
Raphael Street 334170E 373590N 194m north west of site	10141:000:00	Pipe works (date not given)	Ceramics, cement and asphalt manufacturing works
Reillys Place 334210E 373540N 152m west of site	10010:000:00	Cromac Steam Saw Mill (date not given)	Timber products manufacturing works
Cromac Street / Ormeau Road 334120E 373500N 235m west of site	10159:000:00	Paper Mill Bridge (road over rail) (date not given)	Pulp and paper manufacturing works
Gasworks site 334240E 373490N 116m west of site	10006:000:00	Soap works (date not given)	Chemical works: soap and detergent manufacturing works
Ormeau Road 334300E 373300N 195m south of site	BT147/019	1856 - Gas works 1904 - Gas works 1930 - Gas works 1996 – Under redevelopment	Gas works: coke works and other coal carbonisation plants
334420E 373360N 118m south east of site	10116:008:00	Bridge (rail over river for GNR Belfast Central Line) (date not given)	Railway land

Drinking Water Inspectorate (DWI)

The DWI have no records of private drinking water supplies or dairy farms using private water supplies within 500m of the site.

Rivers Agency

The nearest designated watercourse is approximately 100m south of the site, and is known as the Blackstaff River. At this location it is conveyed through twin 3m concrete box culverts. The nearest undesignated watercourse is the tidal influenced reach of the River Lagan, which is approximately 140m east of the wire. Rivers Agency have no records of flooding in the vicinity of the site.

NIEA – Water Management Unit (WMU)

The nearby Blackstaff River is noted by the WMU to be of moderate ecological potential. There are no consented industrial discharges or current abstraction licenses within 500m of the site. A total of three, low severity, pollution incidents are noted to have occurred since 2012 within 500m of the site. Four Northern Ireland Water operational assets exist within 500m of the site.

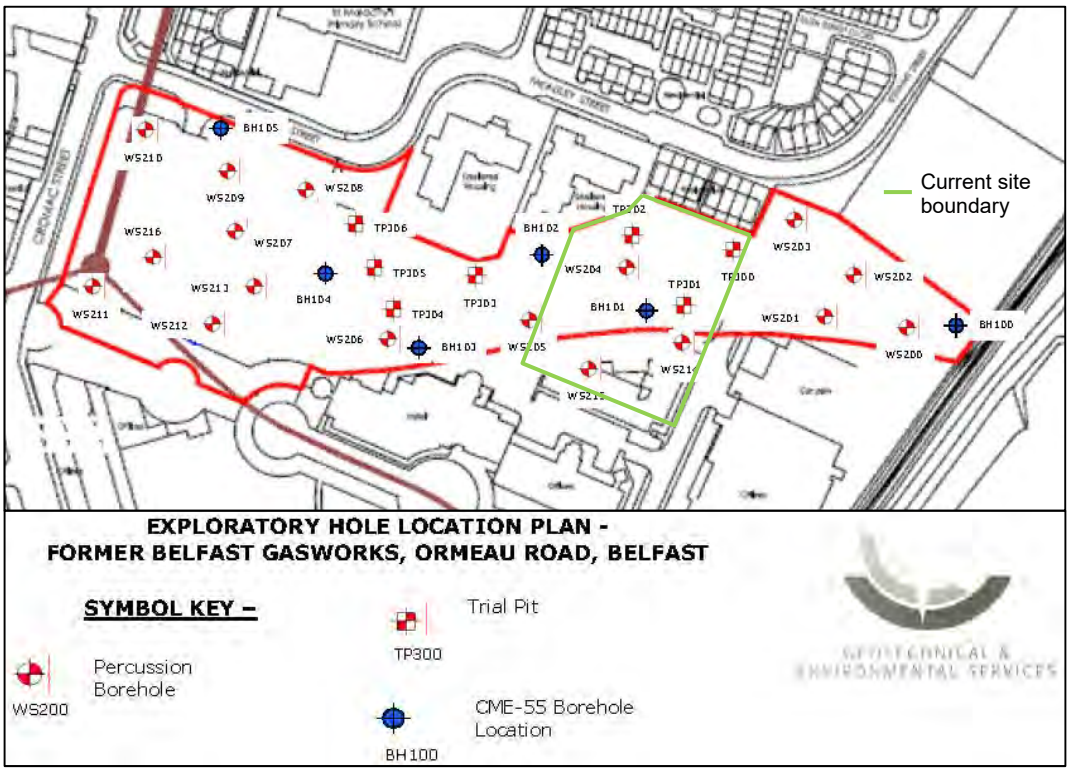
6 Ground conditions encountered during previous assessments

6.1 Previous ground investigation

An intrusive geo-environmental investigation was undertaken across the entire Northern Fringe of the former Gasworks site by Geotechnical & Environmental Services Ltd (GES) during March-April 2009 under the supervision of RPS. The investigation comprised the following;

- Seven (7) trial pits,
- Seventeen (17) window sample boreholes, and
- Six (3) CME-55 auger boreholes.

Figure 8 Previous site investigation (GES 2009)



Environmental soil samples were taken at regular intervals throughout the length of the excavation of each borehole and trial pit across the site. The protocol observed during the recovery of samples followed the guidance set out in BS 10175 the Code of Practice for the Investigation of Potentially Contaminated Sites. The site investigation plan is contained within Figure 8.

Groundwater samples were collected from all installed boreholes in 2009, following development and purging of at least three well volumes, to ensure a representative sample of groundwater was taken from each well.

Six rounds of monitoring of soil borne gases was undertaken in 2009 utilising a calibrated Geotechnical Instruments GA2000 infrared gas analyser fitted with a GFP1.1 flow pod attachment. This recorded the volumetric concentration of methane, carbon dioxide and oxygen, as well as the gas flow rate and barometric pressure.

6.2 Ground conditions

The ground conditions indicated by the exploratory investigation in 2009 are briefly summarised below.

- TARMAC/HARDCORE (Dense grey fine to coarse angular GRAVEL)
- MADE GROUND; Very soft to soft red grey brown black slightly sandy slightly gravelly CLAY/Loose grey brown clayey sandy GRAVEL/gravelly SAND with occasional ash, cinders, red brick, concrete, plastic, metal and crockery remnants
- Very soft to soft grey green black silty CLAY with occasional decayed rootlets and shell fragments
- Firm to stiff red grey brown, locally silty, slightly sandy slightly gravelly CLAY
- Stiff grey brown slightly sandy slightly gravelly CLAY with occasional cobbles
- Dense to very dense red grey brown silty slightly gravelly fine to medium SAND
- Weathered SANDSTONE encountered in situ as: Very dense red brown silty fine to medium SAND at 8.8m bgl.
- Red brown Sandstone encountered at 10.2m bgl.

6.3 Groundwater conditions

A steady flow of groundwater was encountered in a number of test locations across the site. Groundwater strikes were predominantly encountered within Made Ground layers and the groundwater is considered to be shallow, perched groundwater. Groundwater representative of the deep sandstone aquifer was not encountered during drilling but was present during subsequent monitoring.

A number of exploratory boreholes were installed with a 50mm HDPE slotted standpipe and flush covers to allow for follow-on soil gas/groundwater level monitoring. Installations were targeted to either the perched shallow groundwater or the deep sandstone aquifer. BH101,

BH102, BH103 and BH105 contained dual installations which consisted of a 50mm standpipe and a 19mm piezometer pipe to allow for targeting of both the shallow and deep groundwater. Standing groundwater levels were subsequently monitored on seven occasions between 31st March and 24th July 2009 by GES and RPS, using an acoustic dip-meter, where levels ranged from -7.09mOD to 3.20 mOD.

The boreholes and groundwater monitoring data would indicate that the shallow, perched groundwater is generally at 1.0 – 4.95m below ground level. The perched groundwater is generally at greatest depth towards the west of the site and groundwater flow is expected to be in this direction. The Sandstone aquifer also displays this trend for increasing depth towards the west of the site and flow within the deep aquifer is also likely to be in a west/north-west direction.

6.4 Observation of potential contaminants in soil and groundwater

Visual and olfactory observations of contamination identified during the site investigation are detailed in Table 5.

Table 5 Visual and olfactory observation of contaminants during excavation

Borehole No.	Field evidence of contamination
BH100	No obvious visual or olfactory evidence of contamination
BH101	Strong Phenol type odour at 2.6m bgl Strong Phenol type odour from 11.4 to 15.0m bgl Max. PID headspace reading noted to be 18ppm
BH102	Strong Phenol type odour throughout full depth of borehole
BH103	Strong Ammonia type odour from 1.1 to 3.2m bgl Moderate Ammonia type odour from 3.2 to 4.2m bgl Strong Ammonia type odour from 4.2 to 7.6m bgl Strong Phenol type odour from 9.7 to 12.1m bgl Black 'tar' like substance in lenses within the sandstone from 12.1 to 18.3m bgl Max. PID headspace reading noted to be 25ppm
BH104	Slight Phenol type odour from 1.1 to 3.2m bgl Max. PID headspace reading noted to be 1.8ppm
BH105	No obvious visual or olfactory evidence of contamination
WS200	No obvious visual or olfactory evidence of contamination
WS201	No obvious visual or olfactory evidence of contamination
WS202	Strong Phenol type odour from 0.8 to 2.9m bgl Max. PID headspace reading noted to be 28ppm

Borehole No.	Field evidence of contamination
WS203	Strong Phenol type odour from 1.1 to 3.1m bgl Max. PID headspace reading noted to be 27ppm
WS204	Strong Phenol type odour from 1.9 to 4.3m bgl Max. PID headspace reading noted to be 22ppm
WS205	Strong Phenol type odour from 3.0 to 3.7m bgl Max. PID headspace reading noted to be 20ppm
WS206	Slight Phenol type odour from 1.5 to 3.1m bgl Strong Phenol type odour from 3.1 to 5.4m bgl Max. PID headspace reading noted to be 28ppm
WS207	Strong Phenol type odour from 1.6 to 1.9m bgl Max. PID headspace reading noted to be 21ppm
WS208	No obvious visual or olfactory evidence of contamination
WS209	No obvious visual or olfactory evidence of contamination
WS210	No obvious visual or olfactory evidence of contamination
WS211	No obvious visual or olfactory evidence of contamination
WS212	No obvious visual or olfactory evidence of contamination
WS213	No obvious visual or olfactory evidence of contamination
WS214	No obvious visual or olfactory evidence of contamination
WS215	Moderate Phenol type odour from 1.8 to 2.7m bgl Max. PID headspace reading noted to be 2.0ppm
WS216	No obvious visual or olfactory evidence of contamination
TP300	No obvious visual or olfactory evidence of contamination
TP301	Strong Phenol type odour from 0.5 to 2.0m bgl Max. PID headspace reading noted to be 19ppm
TP302	No obvious visual or olfactory evidence of contamination
TP303	Strong Phenol type odour from 1.3 to 3.7m bgl Max. PID headspace reading noted to be 29ppm
TP304	Strong Phenol type odour from 1.4 to 4.2m bgl Max. PID headspace reading noted to be 22ppm
TP305	Strong Phenol type odour from 1.7to 2.2m bgl Max. PID headspace reading noted to be 25ppm
TP306	Strong Phenol type odour from 1.0 to 4.2m bgl Hydrocarbon sheen visible on water strike at 2.3m bgl Max. PID headspace reading noted to be 31ppm

7 Previous assessment - Summary

A summary of the findings of the 2009 RPS GQRA report is provided within this section.

7.1 Generic Quantitative Risk Assessment

7.1.1 Sub-soils

The main contaminants of concern (CoC) recorded within the sub-soil samples were;

- PAHs – Napthalene, Benzo(a)pyrene, Benzo(a)anthracene, Benzo(b+k)fluoranthene, Indeno(123cd)pyrene, Dibenzo(ah)anthracene, Chrysene.
- TPH – Aliphatic Fraction >C12-C16.
- VOCs - Chloromethane, Dichloromethane, 1,1-Dichloroethene, Trans-1,2-Dichlrorethene, Cis-1,2-Dichloroethene, Isopropyltoluene, Styrene, Propylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, Tert-Butylbenzene, n-Butylbenzene and 4-Isopropyltoluene.
- SVOCs – 2,4-Dimethylphenol, 2-Methylnapthalene, Carbazole and Dibenzofuran.

The vast majority of the contaminants were encountered within samples retrieved from the Made Ground although a number of contaminants were recorded in a few samples taken from the Natural Ground. During the assessment, it was noted that two locations on the site repeatedly recorded the highest levels of contamination; WS207 and BH103. WS207 is located to the west of the current application site C and historic information indicates that this area of the old gasworks previously contained a chemical works for processing of byproduct material generated by the gas producing process. BH103 is located immediately west of the current application site C and analysis of the logs indicated that the sample from 4.6m bgl (where the highest contaminant levels were recorded) was obtained from Made Ground consisting of Sand which is directly overlain by a layer of concrete. Historical maps dating from 1959 and 1974 show a number of structures present on this area of the site, however there is no evidence for any gas holder tanks or any other form of underground structure in this area of the old gasworks.

7.1.2 Groundwater

The main contaminants of concern recorded within the shallow and sandstone groundwater samples were;

- Lead.

- Total Cyanide and Total Phenols.
- TPH (C5-C35)
- VOCs - Styrene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, Trichloroethene, Benzene, Toluene, Xylene and Napthalene.
- SVOCs – 2-Methylphenol, 2,4-Dimethylphenol, 2-Methylnapthalene and Carbazole.

7.1.3 Ground Gas & Vapours

The gas risk assessment undertaken following 6 rounds of ground gas monitoring identified Characteristic Situation 2 conditions.

7.1.4 Conceptual Model

The conceptual model developed for the site in 2009 indicated that the predominant risk to human health was from ingress of ground gases and vapours. An environmental risk was identified to the quality of the groundwater within the sandstone aquifer and a potential risk to surface waters, the source of which was considered to be the wider gasworks site.

8 Information provided by Belfast City Council

Consultation with Mr Brendan McLean of Belfast City Council indicated that the Council (In conjunction with Queens University Belfast) have carried out additional ground investigation and groundwater monitoring across the Gasworks site. In addition, they have commissioned Land Quality Management to undertake a review of existing site data and assessments and make recommendations as to future assessment and remediation.

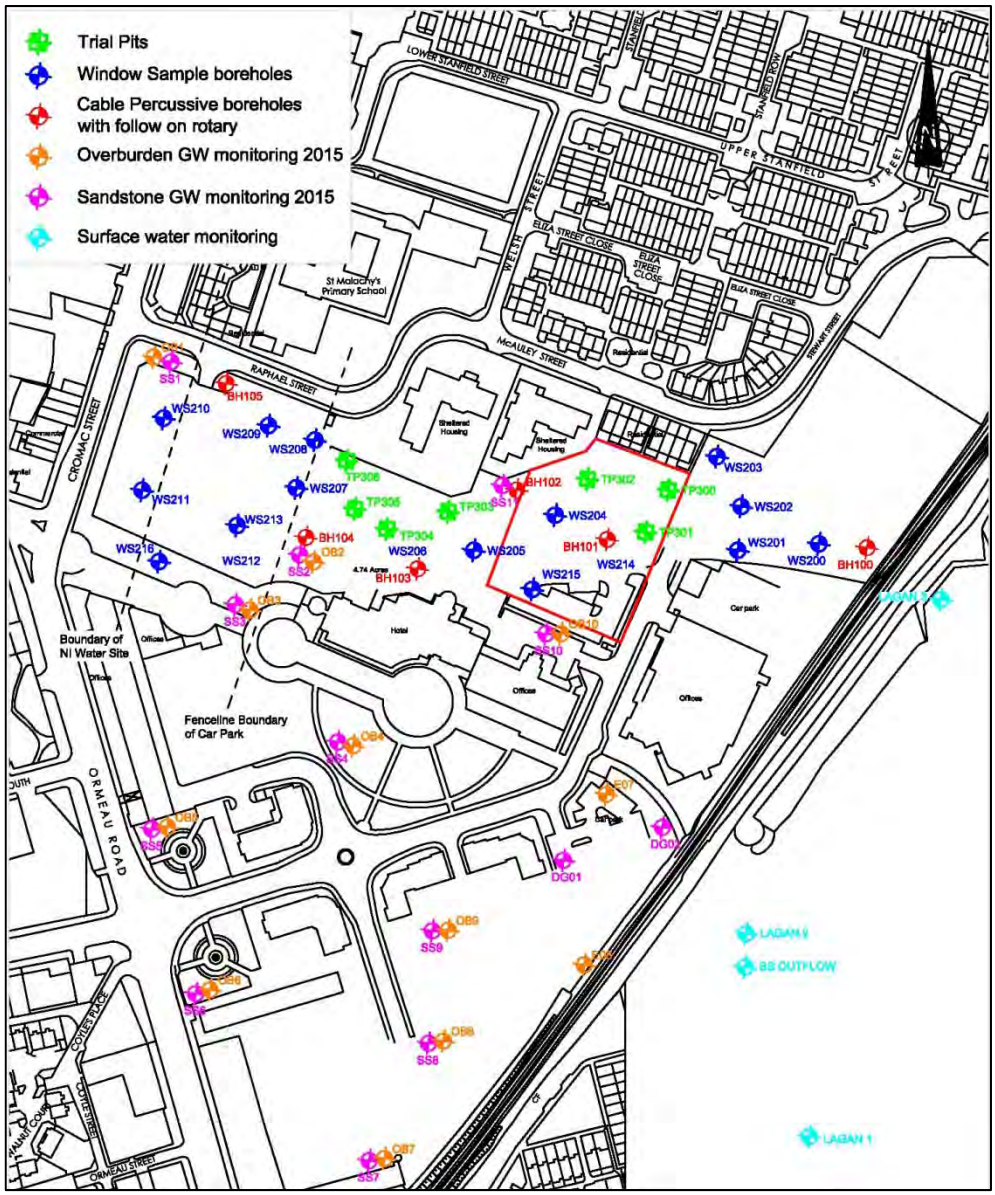
8.1 Land Quality Management

As described within Section 1.1, LQM produced a Preliminary Risk Assessment report and a 'Way Forward' report in 2012. The 'Way Forward' report contains recommendations in relation to additional monitoring and data gathering which has since been commenced by the Council. The report also contains specific recommendations which are appropriate for the current application. These recommendations include the requirement for an assessment of the risk posed by piling activities and any requirement for measures to prevent and minimise the ingress of volatile vapours into buildings.

8.2 Groundwater monitoring 2015 and 2016

Belfast City Council have provided RPS with the results of groundwater monitoring undertaken across the Gasworks site in 2015 and 2016. Monitoring was undertaken on boreholes installed as part of the 2009 RPS investigation and using boreholes recently installed by the Council. The location of all the boreholes is shown in Figure 9.

Figure 9 All site investigation locations



9 Overview of potential contamination

9.1 Introduction

RPS have taken the opportunity within this section to update the previous assessment undertaken in 2009. We have screened all of the available soil results against updated LQM S4ULs for a commercial end use. All groundwater and surface water monitoring results (including the results provided by Belfast City Council) have been screened against generic screening values. The screening tables are included within Appendix D.

9.2 On Site Sources

9.2.1 Soil

The investigation in 2009 advanced a number of test locations across the Northern Fringe site. The following test locations were located within the current Site C application site;

- TP100,
- TP101,
- TP102,
- WS204,
- WS205,
- WS214,
- WS215,
- BH101, and
- BH102.

The soil samples from the above test locations were screened against LQM/CIEH S4ULs for a commercial end use. All of the samples recorded concentrations below the screening values, indicating that the risk to commercial site end users from direct ingestion, contact and soil dust inhalation is low.

9.2.2 Groundwater and Surface Water

The investigation in 2009 included groundwater monitoring in the following test locations;

- WS204 (shallow groundwater)
- WS215 (shallow groundwater)

- BH101 (shallow groundwater)
- BH102 (shallow groundwater)
- BH101 (sandstone aquifer)
- BH102 (sandstone aquifer).

In addition to the above, Belfast City Council undertook monitoring in the following locations in 2015 and 2016;

- WS204 (shallow groundwater)
- BH101 (shallow groundwater)
- BH102 (shallow groundwater)
- BH101 (sandstone aquifer)
- BH102 (sandstone aquifer)
- 01SS11 (sandstone aquifer, borehole was installed as part of the Council monitoring network).

The following contaminants from the 2009 monitoring were recorded above screening values;

Table 6 2009 Groundwater Screening Results

Contaminant	Screening Value	Max Recorded Concentration
Boron	1,000 ug/L UK DWS	1,249 ug/L WS204 shallow groundwater
Arsenic	10 ug/L UK DWS	17.5 ug/L WS204 shallow groundwater
Copper	1 ug/L WFD 2015	7.0 ug/L WS215 shallow groundwater
Lead	7.2 ug/L WFD 2015	15.0 ug/L BH101 Sandstone aquifer
Zinc	11.9 WFD 2015	17.0 ug/L WS204 shallow groundwater
Total Cyanide	0.05 mg/L UK DWS	2.60mg/L BH102 Sandstone aquifer
Napthalene	2.4 ug/L WFD 2015	2,908.00 ug/L BH102 Sandstone aquifer
Anthracene	0.1 ug/L WFD 2015	2.57 ug/L BH102 Sandstone aquifer
Fluoranthene	0.1 ug/L WFD 2015	15.0 ug/L BH101 shallow groundwater
Benzene	10 ug/L WFD 2015	696.00 ug/L BH102 Sandstone aquifer
Toluene	74.0 ug/L WFD 2015	329 ug/L BH102 Sandstone aquifer

The following contaminants from the 2015/2016 Belfast City Council monitoring were recorded above screening values;

Table 7 2015/2016 Groundwater & Surface Water Screening Results

Contaminant	Screening Value	Max Recorded Concentration
Total Chromium	4.7 ug/L WFD 2015	6.2 ug/L 01SS11 Sandstone aquifer
Copper	1 ug/L WFD 2015	1.8 ug/L BH101 shallow groundwater 5.2 ug/L 01Lag03 River Lagan
Iron	0.001 ug/L WFD 2015	310 ug/L 01SS11 Sandstone aquifer 50 ug/L 01Lag02 River Lagan
Manganese	123 ug/L WFD 2015	540 ug/L 01SS11 Sandstone aquifer 1700 ug/L 01Lag01 and 01Lag02 River Lagan
Zinc	11.9 WFD 2015	23.0 ug/L 01Lag01 and 01Lag02 River Lagan
Total Cyanide	0.05 mg/L UK DWS	0.43 mg/L 01SS11 Sandstone aquifer
Phenol	0.0077 mg/L WFD 2015	0.019 mg/L 01SS11 Sandstone aquifer
Benzene	10 ug/L WFD 2015	1900 ug/L 01SS11 Sandstone aquifer
Toluene	74.0 ug/L WFD 2015	220 ug/L 01SS11 Sandstone aquifer

The results indicate that both the shallow and Sandstone aquifer have been impacted by a number of contaminants including metals, PAHs, Cyanide, Phenol, Benzene and Toluene. There appears to be a reduction in the concentration of PAHs recorded in the 2015 and 2016 monitoring. The contaminants are considered typical of a former gasworks site and represent a site wide source of contamination.

9.2.3 Ground Borne Gases & Vapours

Gas monitoring undertaken in 2009 indicate that the site has been classified as a Characteristic Situation 2. Screening of the groundwater results against Atkins WSVs for a commercial end use indicate only one recorded exceedance within the sample from 01SS02 which is outside the current Site C application site boundary. Nevertheless, migration of vapours from the wider gasworks site cannot be ruled out and therefore vapour protection measures will be required within the proposed building.

9.3 Off Site Sources

Information gathered from the previous 2009 investigation, the investigation carried out for the proposed Marriot Hotel and recent monitoring undertaken by Belfast City Council indicate that contamination is present across the former gasworks site. There is therefore the potential for contamination to migrate on site via horizontal migration in both shallow groundwater and within the Sandstone aquifer.

10 Conceptual site model and risk assessment

10.1 Conceptual Site Model

Risk estimation involves detailed evaluation of source - pathway - receptor scenarios to determine whether a linkage exists between any sources of contamination and potential receptors. A risk exists where a receptor is exposed to a source of contamination, via a pathway. If any element of the source-pathway-target linkage is absent, then no risk is present.

In order to consider potential risks at the site, a conceptual site model was developed, to examine the potential source - pathway - receptor linkages that may exist on the site. The conceptual model and the risk assessment for the site are illustrated in Table 8.

Table 8 Refined Risk Assessment & Site Conceptual Model

Potential Source	Potential Pathway(s)	Potential Receptors(s)	Potential for Source – Pathway – Receptor Linkage	Mitigation Measures
On-site Source				
Contaminants in sub-soils from former gasworks	Dermal contact, ingestion of/ and direct inhalation of potential contaminants present within soil	Humans in form of future site users, landscaping and maintenance workers	**Low** Screening of soil results specific to the Site C application site did not recorded any contaminant exceedances for a commercial end use	Whilst no specific remedial measures are required, buildings and hardstanding will encapsulate underlying soils and excavation on site shall be minimal. Landscaped areas will comprise of raised beds with imported topsoil.
	Subsurface infiltration	Perched groundwater, sandstone aquifer	**Low to Medium** A potential exists for contaminants to leach from sub-soils into the underlying groundwater.	Buildings and hardstanding will reduce infiltration.
Contaminants in groundwater	Vertical and horizontal migration	Perched groundwater, sandstone aquifer River Lagan	**Medium** A potential exists for contaminants to migrate in groundwater.	Given that contaminated groundwater is present across the former gasworks site, it is not deemed to be feasible to address the remediation of groundwater within the context of the current planning application.
Soil Gas & Vapours	Fissures/cracks in ground slab and or migration along service trenches	Humans in form of future site users and site workers	**Low to Medium** Site has been classified as a Characteristic Situation 2. A potential exists for volatile vapours to migrate onto the site from the wider former gasworks.	Gas and vapour protection measures will be required within the proposed building.
Soil Gas : Radon	Migration along service trenches	Humans in form of future site users and site workers	**Low** Radon map for Northern Ireland shows that 0-1% of homes are above the action level in the study area.	No mitigation measures required.

Potential Source	Potential Pathway(s)	Potential Receptors(s)	Potential for Source – Pathway – Receptor Linkage	Mitigation Measures
Off-site Source				
Contamination from wider former gasworks site	Migration in groundwater	Perched groundwater, sandstone aquifer Humans in form of future site users	**Low to Medium** Contamination may migrate onto the site from the wider former gasworks area. The exact nature of the hydrogeological regime beneath the gasworks site including hydraulic gradient is currently under investigation by Belfast City Council.	As above, vapour protection measures will be required within the proposed building.

11 Conclusions and recommendations

11.1 Conclusions

The desk study has highlighted the potential contamination sources, pathways and receptors which are likely present on the current site. The principal risk present on the site is from ingress of ground gases and vapours.

11.2 Recommendations

- A Remedial Strategy should be produced which highlights in greater detail the measures to be incorporated to minimise the risk to future site users and the environment.
- If a piled solution is adopted, it is recommended that a foundation works risk assessment be carried out in accordance with the EA publication "*Piling and Penetrative Ground Improvement Methods on Land Affected by Contamination and Pollution Prevention*".
- Ongoing consultation with Belfast City Council is advised in relation to their monitoring programme. The Council should be made aware if any of the monitoring locations currently being used will be destroyed by the proposed development.

Appendix A

Proposed development layout

revision	drawn	approved	date	description
-	-	-	-	-

PROJECT
GASWORKS OFFICE - SITE C

CLIENT
INISLYN

CONTENT
Proposed Site Plan

SCALE	SIZE	DATE	NORTH	STATUS
1:500	A3	11.04.2016		PRELIMINARY
-	-			

DRAWN	CHECKED	APPROVED	JOB NO.	DRAWING NO.	REVISION
DC	MK	BM	B07-434	L-06	-

File loc: L:\2007 Bp313 - Bp507\B07-434 Gasworks Office Inislyn\1. Consarc\1-Issue\1-Layout\L06 - Proposed Site Plan.dwg Plotted by David Caldwell

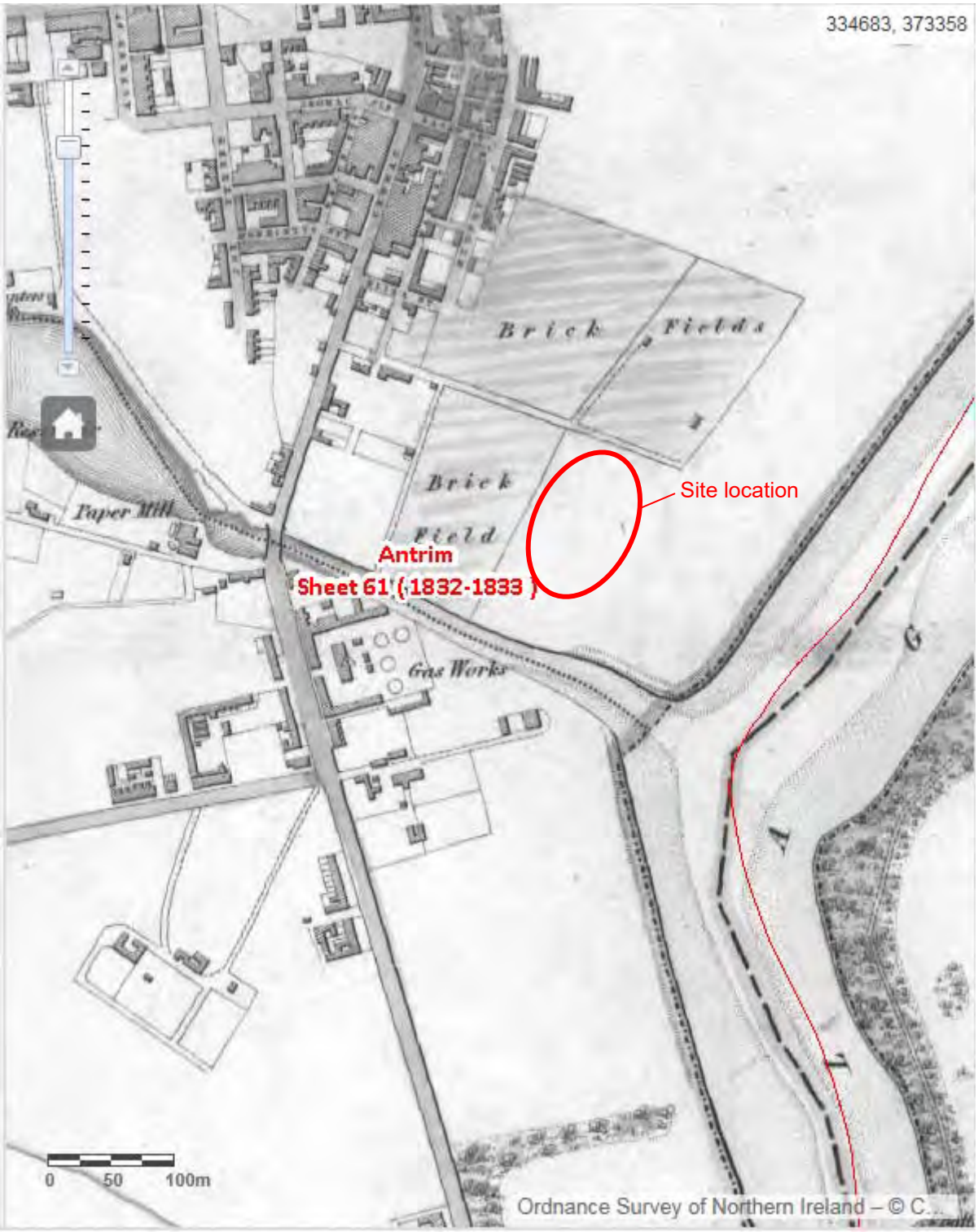
CONSARC ARCHITECTURE
THE GAS OFFICE | 4 CROMAC QUAY | ORMEAU ROAD | BELFAST | BT7 2JD
consarc-design.co.uk | TEL. +44 (0)28 9082 8400 | mail@consarc-design.co.uk

Figured dimensions to be taken in preference to scaled dimensions. Site dimensions are to be checked prior to commencement of all work and discrepancies reported immediately DO NOT SCALE THIS DRAWING. All dimensions are in millimetres. © Consarc Design Group Ltd

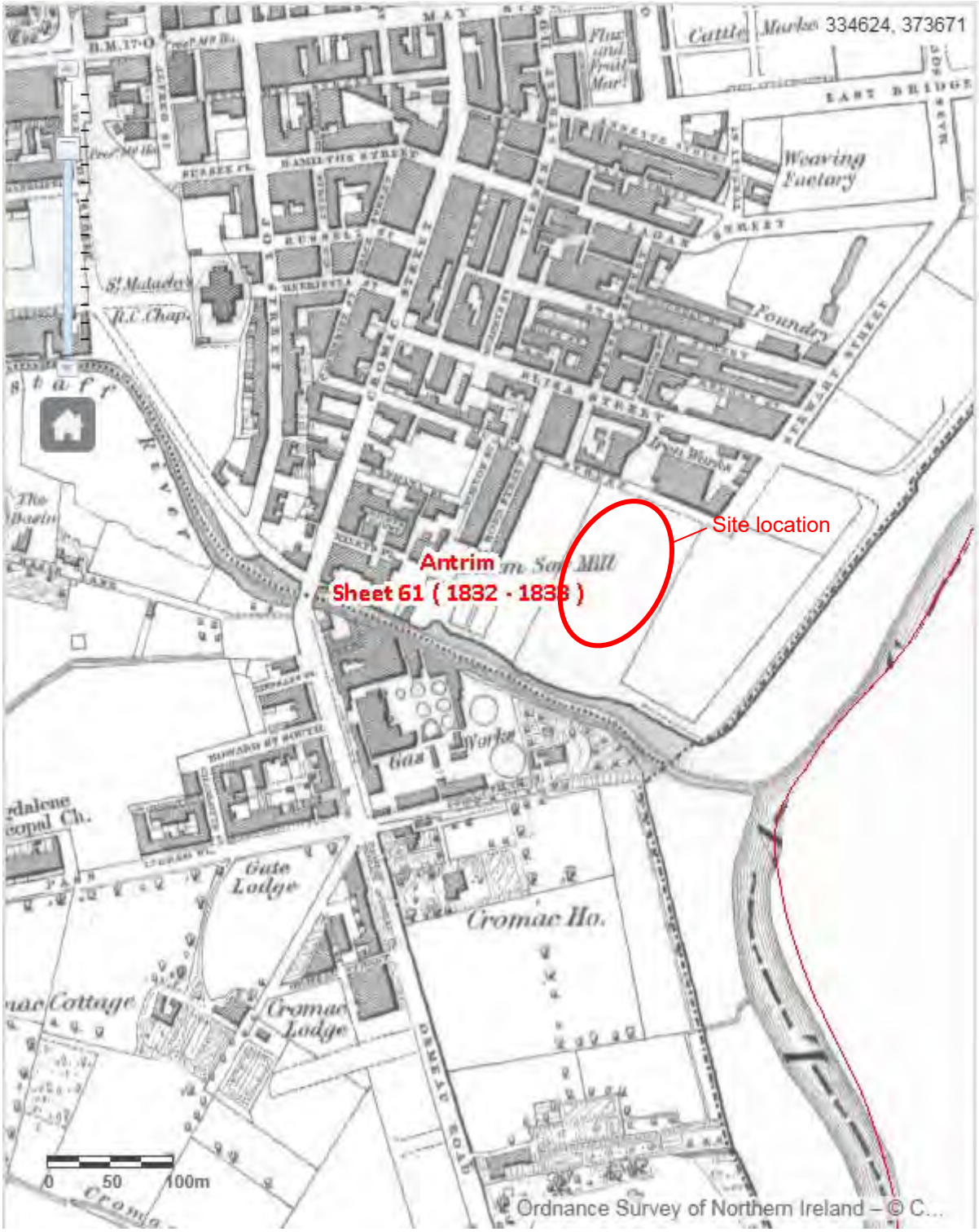
Appendix B

Historic maps

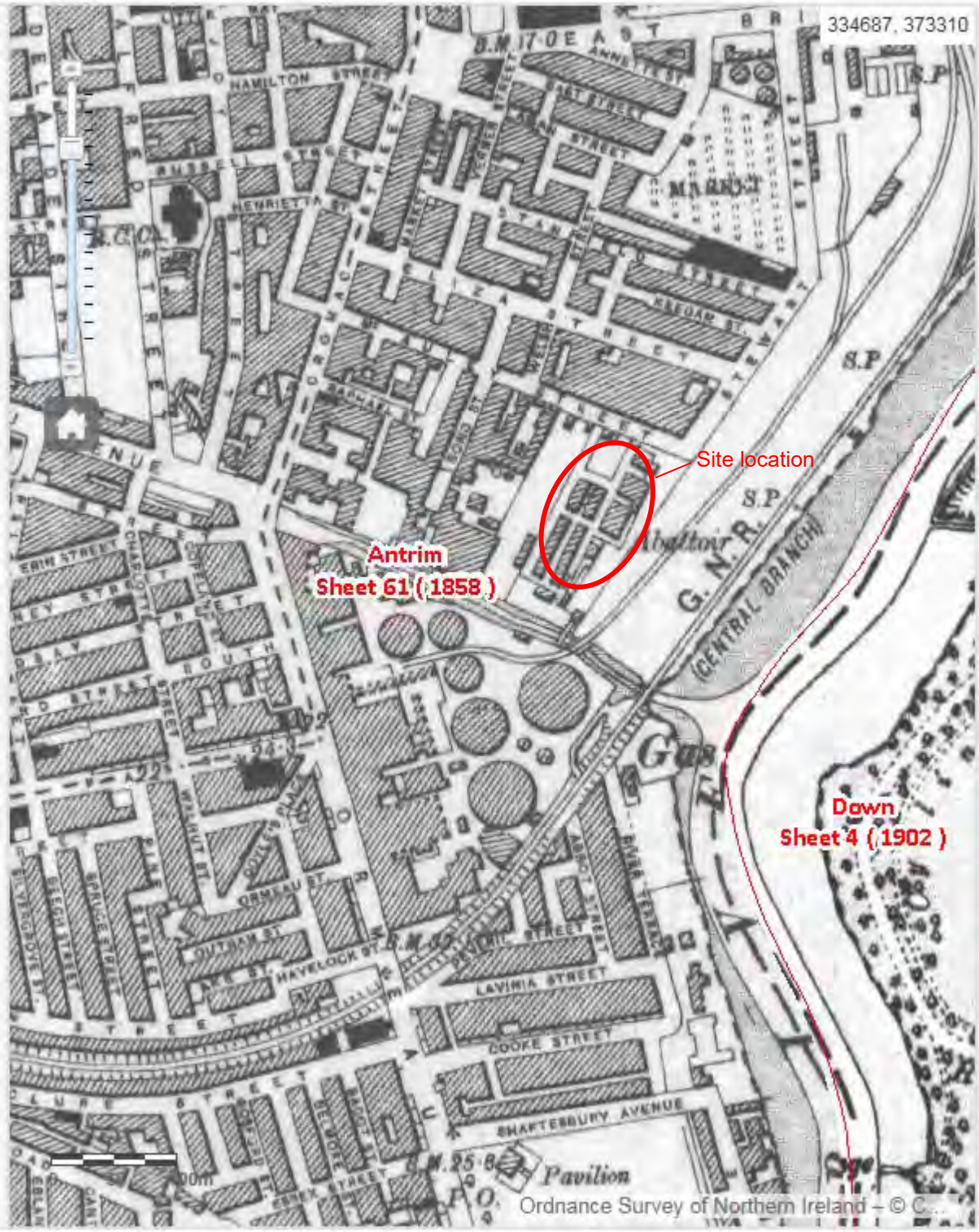
1832-1833


334683, 373358
Brick Fields
Brick Field
Paper Mill
Gas Works
Site location
Antrim
Sheet 61 (1832-1833)
0 50 100m
Ordnance Survey of Northern Ireland – © C...

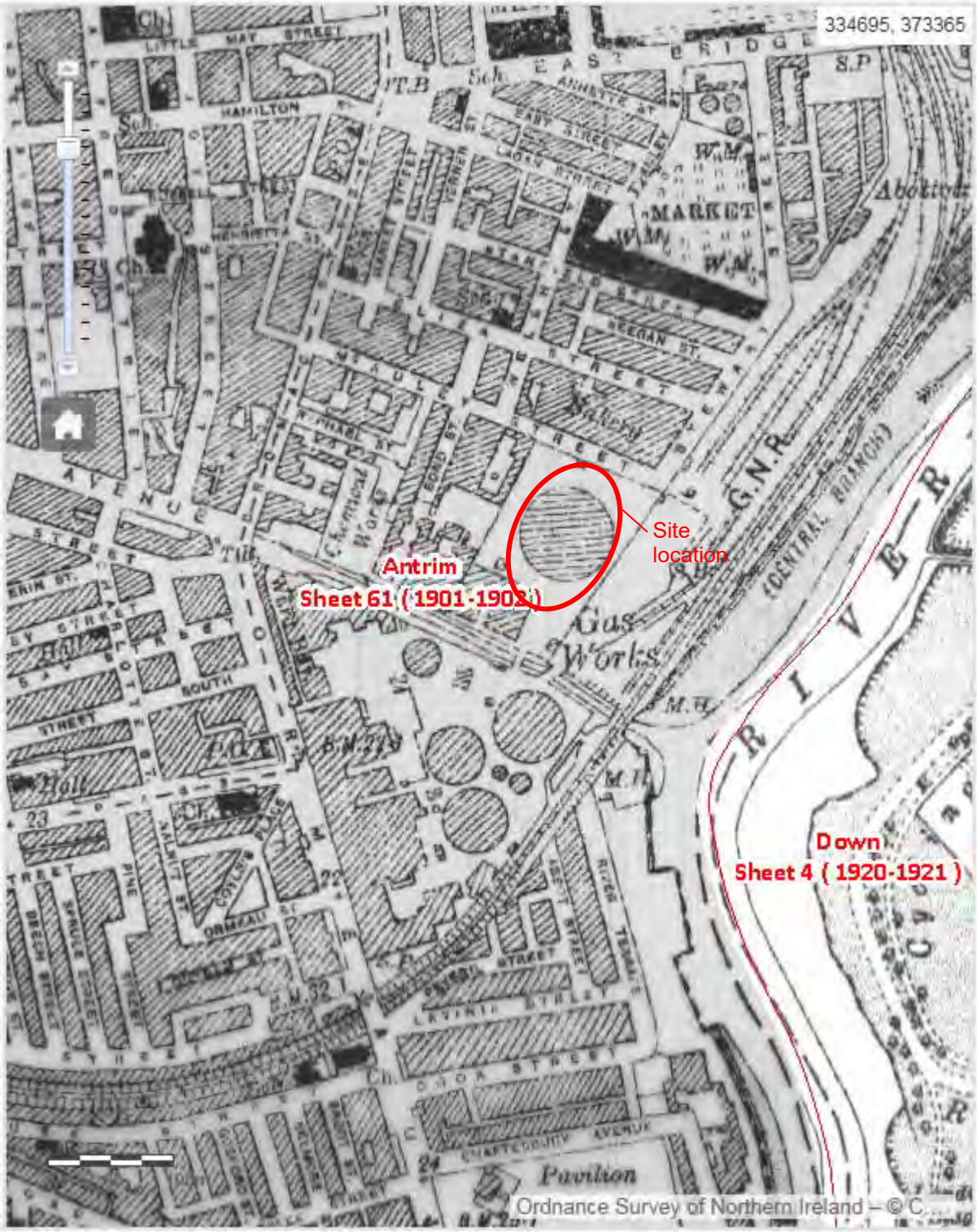
1832-1833


334624, 373671
Cattle Market
Weaving Factory
Foundry
Site location
Antrim
Sheet 61 (1832 - 1833)
Gas Works
Gate Lodge
Cromac Ho.
Cromac Lodge
Cromac Cottage
0 50 100m
© Ordnance Survey of Northern Ireland – © C...

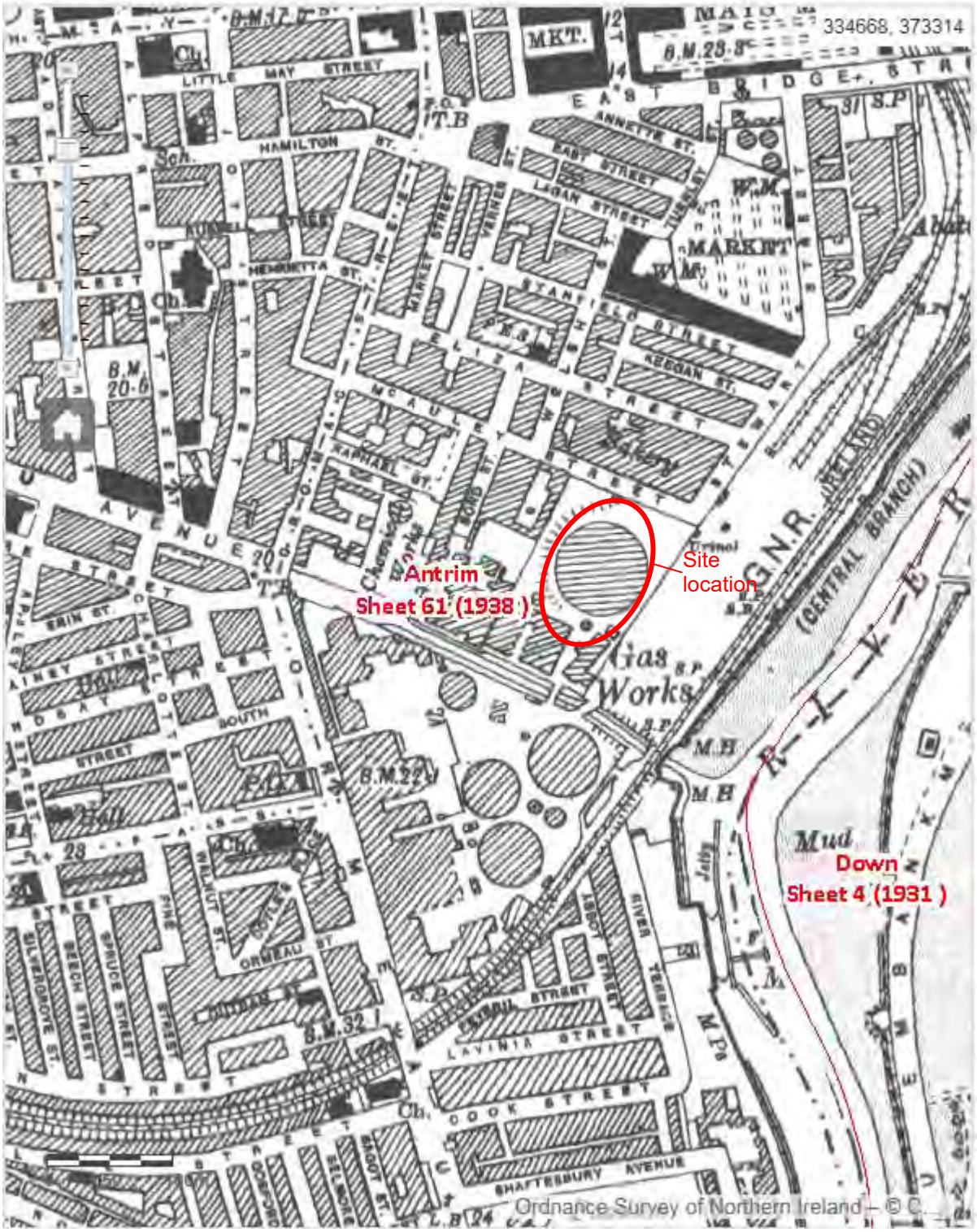
1858


334687, 373310
Site location
Antrim
Sheet 61 (1858)
Down
Sheet 4 (1902)
HAMILTON STREET
HENRIETTA ST
ANNE STREET
EAST STREET
MARKET
S.P
G. N. R.
(CENTRAL BRANCH)
Gas
Works
LAVINIA STREET
COOKE STREET
SHAFTESBURY AVENUE
Pavilion
Ordnance Survey of Northern Ireland – © C...

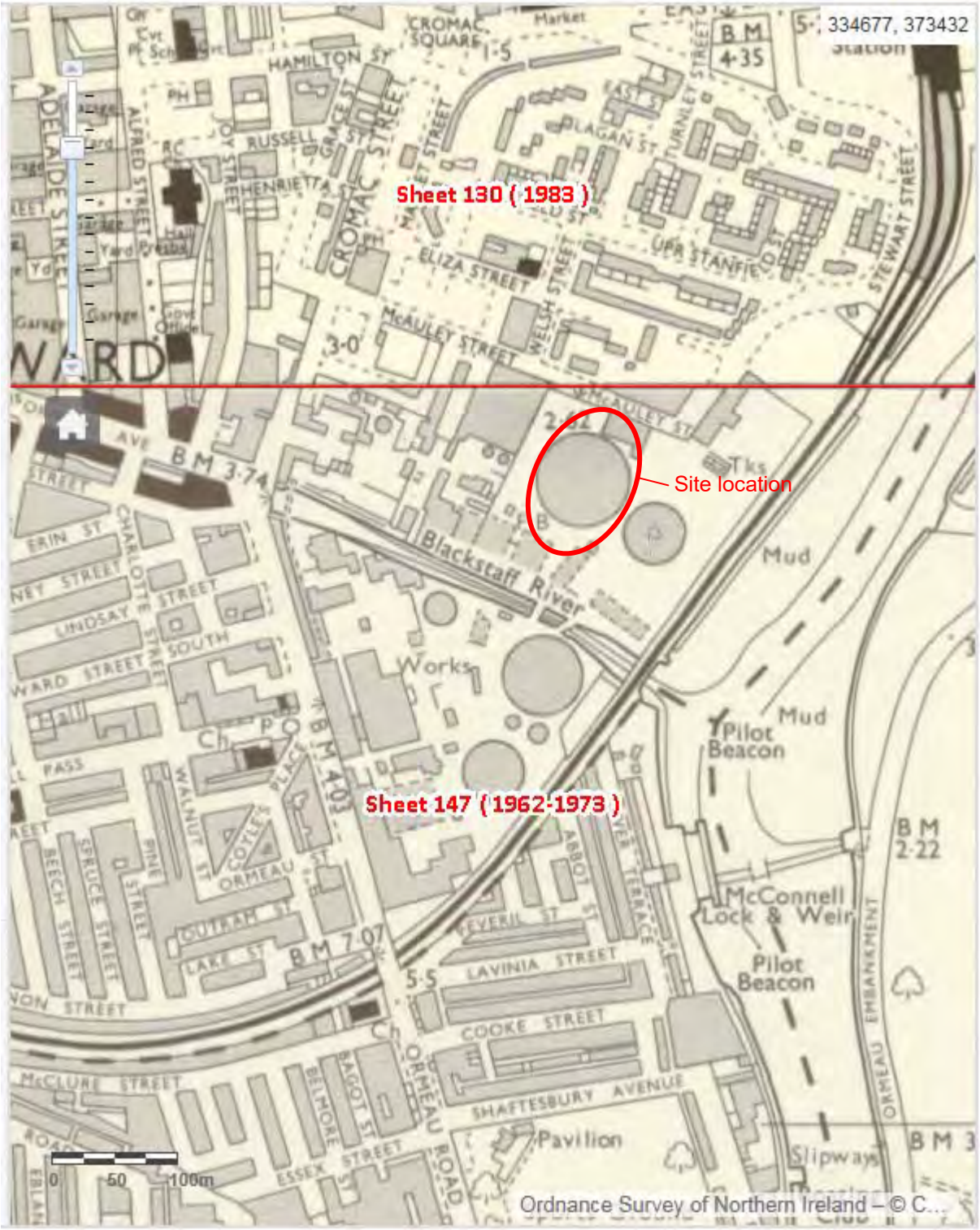
1901-1902


334695, 373365
Site location
Antrim
Sheet 61 (1901-1902)
Down
Sheet 4 (1920-1921)
Gas Works
MARKET
Pavilion
Ordnance Survey of Northern Ireland – © C

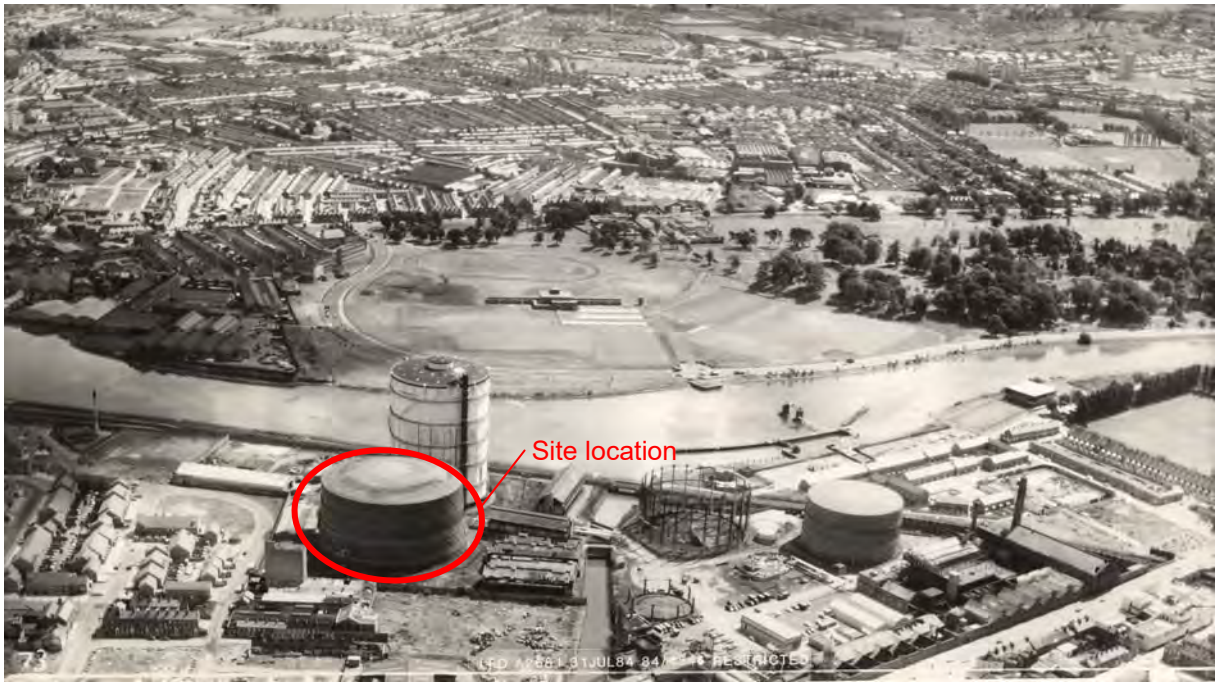
1938


334668, 373314
Antrim
Sheet 61 (1938)
Site
location
Gas
Works
Mud
Down
Sheet 4 (1931)
MKT.
MARKET
LITTLE MAY STREET
HAMILTON ST.
EAST BRIDGE STREET
ANNETTE ST.
EAST STREET
LEGAN STREET
STANFIELD STREET
KEEGAN ST.
MARKET STREET
HENRIETTA ST.
ELIZA STREET
McAULEY STREET
RAPHAEL ST.
BOND ST.
AVENUE
ERIN ST.
SOUTH
WALNUT ST.
ORMEAU ST.
LAVINIA STREET
COOK STREET
SHAFTESBURY AVENUE
RIVER TERRACE
LEGOY STREET
(CENTRAL BRANCH)
G.N.R.
B.M.20·6
B.M.27·1
B.M.32·1
B.M.23·8
Ordnance Survey of Northern Ireland – © C

1962-1973


334677, 373432
Sheet 130 (1983)
Sheet 147 (1962-1973)
Site location
Blackstaff River
Mud
Pilot Beacon
McConnell Lock & Weir
Pavilion
Slipways
Works
CROMAC SQUARE
HAMILTON ST
RUSSELL ST
HENRIETTA ST
ELIZA STREET
McAULEY STREET
PLAGAN ST
UPR STANFIELD ST
STEWART STREET
ADELAIDE STREET
ALFRED STREET
CHARLOTTE STREET
LINDSAY STREET
WARD STREET
ORMEAU
LAVINIA STREET
COOKE STREET
SHAFTESBURY AVENUE
ESSEX STREET
ORMEAU ROAD
ORMEAU EMBANKMENT
0 50 100m
Ordnance Survey of Northern Ireland – © C...

1984 (aerial photograph)



Appendix C

Consultation responses

Rebekka McIlwaine

From: Derby, Martin [redacted]
Sent: 06 September 2016 16:35
To: Joseph McGrath
Subject: FW: Request for information - Gasworks Belfast PWS570
Attachments: Site C Gasworks Belfast.pdf

Hello Joseph,

Site at Gasworks, Belfast

The Drinking Water Inspectorate only holds information on private water supplies registered with the Inspectorate under The Private Water Supplies Regulations (Northern Ireland) 2009 and has provided this below.

There are no private drinking water supplies registered with the Inspectorate within 500m of the outlined site.

There are no dairy farms using private water supplies within 500m of the outlined site.

Please note the information provided in this e-mail is accurate in accordance with our latest records only. In particular, the information the Inspectorate holds on dairy farms may not be up to date. If you require more up to date information on the latter, you should contact the Quality Assurance Branch at the Department of Agriculture, Environment and Rural Affairs at Dundonald House, Upper Newtownards Road, Belfast. Tel. (028) 90 525001.

It is important that you note that the Drinking Water Inspectorate does not hold information on private water supplies which supply single dwellings. Details on these may be obtained from the Environmental Health Department of the local council.

You may also wish to contact Northern Ireland Water for information on any Northern Ireland Water sites in the area - Tel. 03457 440088 or Email: waterline@cs.niwater.com .

NIEA Water Management Unit can be contacted regarding other information that you may require: waterinfo@daera-ni.gov.uk

You should also undertake your own scoping exercise of premises in the vicinity of the development as there may be private water supplies for which records are not held by the above agencies. This should include a survey of the surrounding properties to determine if they have a private water supply. This scoping exercise should include a desk study of relevant OS maps or other relevant information. If it has been assessed, in undertaking this assessment, that private drinking water supplies could be impacted upon by the development then the applicant should propose appropriate steps to mitigate against either a deterioration of drinking water quality or sufficiency of supply. This should include appropriate monitoring and sampling of the supply, if deemed appropriate. Details of any assessment of private water supplies should be made available to the DWI.

The Inspectorate is not in a position to comment on what other information may be relevant to a hydrology assessment.

Regards,

Martin

Martin Derby
Drinking Water Inspectorate
Northern Ireland Environment Agency
Klondyke Building
Cromac Avenue
Gasworks Business Park
Lower Ormeau Road
Belfast
BT7 2JA

From: Joseph McGrath [mailto:[redacted]
Sent: 06 September 2016 16:12
To: DWI
Subject: Request for information - Gasworks Belfast

Dear Sir/Madam

We are currently involved in a desk study of the ground conditions and environmental conditions as well as development history of a site within the former Belfast Gasworks, Belfast, as shown on the attached map.

Please advise if you have any information on file (within a 500m radius) regarding the following at the site:

- Groundwater conditions;
- Water quality;
- Location of wells in the general area of the sites;
- Location of water abstractions;
- Permitted discharges; and
- Reported contamination incidents.

We would be grateful if you could provide us with a response to the above points at your earliest convenience and appreciate your assistance in this regard. Should you require any further information, please do not hesitate to contact us.

Kind Regards,

Joseph McGrath MSc BSc (Hons)
Senior Scientist - RPS
Consulting Engineers, Elmwood House, 74 Boucher Road,
Belfast, BT12 6RZ.
Northern Ireland
Tel: +44 (0) 28 9066 7914
Fax: +44 (0) 28 9066 8286
Email: [redacted]
www: www.rpsgroup.com/ireland

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RIVERS Agency

Asset Management Unit

Department for Infrastructure
www.infrastructure-ni.gov.uk

Hydebank
4 Hospital Road
Ballydollaghan
Belfast, BT8 8JP Tel: 028 9025 3046

RPS RECEIVED 29 SEP 2016 P.D. F.A.O. RECEIPT F.A.O. RECEIPT P.M. Job No.

Mr Joseph McGrath
RPS Elmwood House
74 Boucher Road
Belfast
BT12 6RZ

YourRef:
OurRef: IN1-16-8321
Date: 16 September 2016

Dear Joseph

Re: Former Belfast Gasworks

Thank you for your enquiry received 06/09/2016 regarding the above site. The site is affected by a watercourse, which is designated within the terms of the Drainage (Northern Ireland) Order 1973. Please refer to map attached. Designated watercourses are shown delineated in pink. The actual alignment of the watercourse may not be accurately depicted, as re-alignment or culverting work may have been undertaken subsequent to designation. In these circumstances the alignment indicated by the culvert is considered to be more reliable.

It should be emphasised that any information provided is approximate and should be considered as guidance only. Before any works are carried out you should determine the exact position of these services on site.

There may be undesignated watercourses, within or bounding the site, about which we are unaware. Rivers Agency does not maintain a database of undesignated watercourses, which may be present at the site. In this regard, you are advised to consult with Ordnance Survey, and/or undertake site inspections, etc.

Within the terms of the above mentioned Order you are advised as follows:

1. If during the course of developing a site a watercourse is uncovered which was not previously evident, the Greater Belfast Office at Ravarnet House, Altona Road, LISBURN, BT27 5QB, Tel. 02892606100, must be contacted immediately in order that arrangements may be made for an investigation and direction in respect of any possible actions that may be necessary to maintain its drainage function; moreover

2. Any proposal either temporary or permanent in connection with a development that may impact on the drainage function of any watercourse within the site, now or in the future, such as release of storm water to, culverting, bridging, diverting building, adjacent to and/or over, etc requires prior written consent from the Department. Details of such proposals, together with accompanying drawings, maps and calculations etc must be submitted in advance of any development to the Greater Belfast Office at Ravarnet House, Altona Road, LISBURN, BT27 5QB, Tel. 02892606100. Failure to obtain such a written consent is an offence under the provisions of the above Order, which may lead to prosecution or other statutory action as provided for.

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The Department does not accept any liability for loss, injury or damage to any person or property as a result of any inaccuracy in the above information provided. In this regards you are advised to seek the services of qualified competent professional bodies to ascertain the suitability and completeness of the information regarding the location, condition of and responsibility for any buried services at this location.

Future requests regarding the information on the Department's drainage and flood defence infrastructure should continue to be addressed to the Rivers Agency's Asset Management Unit at the above address.

Yours sincerely

Anne McGuigan

[redacted]

Asset Management Unit

IN1-16-8321

For detail in accordance with HSG (47) see the appropriate Geoset. Copyright OSNI

Land and Property Services

RIVERS Agency
An Agency within the Department of Agriculture and Rural Development

© Crown Copyright.
All rights reserved.
Date: 16/09/2016

Scale: 1:3,500

1. Any proposals, either temporary or permanent, which involve interference with any watercourse, such as culverting, bridging, diversion, building adjacent to, or discharge of stormwater etc. require the written consent of Rivers Agency. Failure to obtain such written consent is an offence under the provisions of the Drainage (NI) Order 1973, which may lead to prosecution or other statutory action as provided for.
2. If during the course of developing a site, a watercourse is uncovered which was not previously evident, Rivers Agency should be notified immediately in order that arrangements may be made for investigation and direction in respect of any action to deal with said watercourse. You are advised to assess the suitability/ correctness of the information provided as the Rivers Agency does not accept liability for loss, injury or damage to any person or property caused as a result of any inaccuracy in the information provided.

- Watercourses (Designated)
- Info Pipes
- Info Nodes
- FloodDefence
- GaugingStations
- AlertStations

RIVERS Agency

Department for
Infrastructure
An Roinn
Bonneagair
www.infrastructure-ni.gov.uk

Rivers Agency – Eastern Division

Ravarnet House
36 Altona Road
LISBURN
BT27 5QB
Tel: 028 9260 6100
Fax: 028 9260 6111

Joseph McGrath
RPS Consulting Engineers
Elmwood House
74 Boucher Road
Belfast
BT12 6RZ

RPS RECEIVED 05 OCT 2016 P.D. .....

F.A.O.	RECEIPT	F.A.O.	RECEIPT
P.M.			
Job No.			

Your reference:
Our reference: IN1-16-8215

27th September 2016

Dear Sir,

Re: Advisory – Site C Gasworks, Belfast.

Thank you for your correspondence dated 6th September 2016 regarding the above site. Please find the following details in response to your requested information:

Designated and Undesignated Watercourses

The nearest designated watercourse is approximately 100 metres to the south of the referenced site and is known to the Rivers Agency as the Blackstaff River. The Blackstaff River at this location is conveyed through twin 3 metre concrete box culverts. The nearest undesignated watercourse is the tidal influenced reach of the River Lagan, which is approximately 140 metres to the east of the referenced site. Other undesignated watercourses of which Rivers Agency have no information may affect this site.

Water Quality

Rivers Agency does not hold records of water quality; the NIEA – Water Management Unit may have water quality records for this location.

Records of Flood Incidences

Rivers Agency has no records of flooding in the vicinity of the referenced area.

Under the terms of Schedule 6 of the Drainage (Northern Ireland) Order 1973 the applicant must submit to Rivers Agency for its consent any proposal to carry out works which might affect any watercourse.

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Department for Infrastructure
An Roinn Bonneagair
www.infrastructure-ni.gov.uk

If you require any further information, advice or clarification, please contact me at the above address. Please quote the reference number above on any future correspondence.

Yours faithfully,

[redacted]

Alan McWatters
Engineering Section

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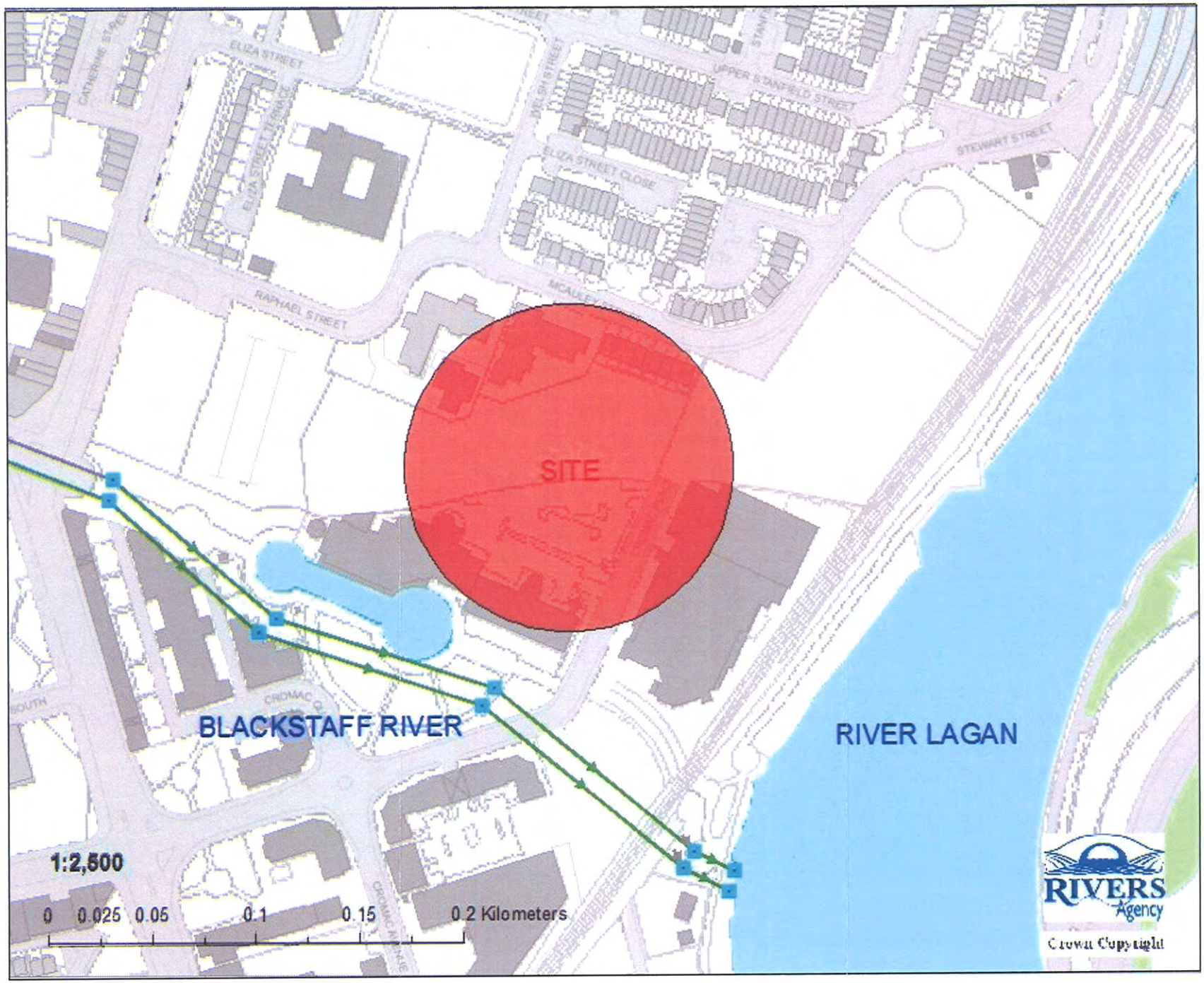

Legend

- AlertStations
- GaugingStations OPEN
- AlertStations OPW
- Inlet
- Outlet
- Roughing
- Other
- Flap Valves (Point)
- Nodes
- <all other values>
- 1
- 2
- 3
- 4
- 5
- Abandoned
- Engineered Defence
- Significant Agriculture Defence
- Agriculture Defence
- Agriculture Bank
- Channel Conveyance Structure

Printed on : September 27, 2016

Northern Ireland Environment Agency
www.daera-ni.gov.uk

Water Management Unit
17 Antrim Road
Tonagh
Lisburn
BT28 3AL
Tel: 028 9262 3004

Joseph McGrath
RPS Group
Elmwood House
74 Boucher Road
Belfast
BT12 6RZ

Our Ref: WQU10427

Date: 30 September 2016

Dear Joseph,

Re: Site at the Gasworks, Belfast, Grid reference J 3435 7352

Thank you for your email sent on 9 September 2016 relating to an area within a 500m radius of the site detailed above.

WMU hold the following information relating to Water which may be of use when carrying out your assessment:-

Surface Freshwater Quality

Please see attached - **NIEA – WMU – WQU10427 – Water Quality – Response**

Groundwater/Hydrogeology

Regional information on groundwater aquifer classification and/or groundwater vulnerability is now available directly from the Geoindex on the British Geological Survey (BGS) website: http://mapapps2.bgs.ac.uk/GSNI_Geoindex/home.html. **Please see attached Groundwater Guidance Note**.
(Important: Please change the current theme on the top right-hand side to "hydrogeology". Click on the "+" sign in front of the layer name for a legend. For supporting information and background on the layer being queried and to note limitations on its use, click on the layer name.)

A search of the Groundwater Monitoring Database has found that there are no groundwater monitoring points within the requested 500m radius search area.

There are no groundwater quality data available.

Consented Industrial Discharges

There are no consented industrial discharges within the 500m search radius.

An Agency within the Department of Agriculture, Environment and Rural Affairs
www.daera-ni.gov.uk
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Abstractions

There are no current abstraction licence applications within the specified search area of this site.

Note this information relates to abstraction licence applications where:

(i) An application for an abstraction licence may have been received by the Department and the information contained within it has been determined to be complete, but a licence may not have been issued.

(ii) An application for an abstraction licence may have been authorised by the Department (i.e. as an existing activity where an application for an abstraction licence was received before 1 February 2008), or

(iii) An abstraction licence may have been issued by the Department.

The information provided was generated from the Abstraction & Impoundment Licensing Database at the time this query was created, and is subject to change.

For information on private water supplies in this area, please contact the Drinking Water Inspectorate: dwi@daera-ni.gov.uk.

Pollution Incidents

WR Number	Investigat	PollutionS	Source	PollutantC
WR4/12/0220	24/10/12	Low	Northern Ireland Water Ltd	Sewage
WR4/14/0190	25/11/14	Low	Other	Sewage
WR4/13/0086	19/6/13	Low	Other	Oil

NIW Ltd. Discharges

NIWL operational assets within 500m of the supplied grid ref:

Name	Type	Asset Grid Ref	Discharge Grid Ref
River Terrace CSO	CSO	334418-373306	
Ormeau Avenue CSO	CSO	334123-373505	334149-373510
River Terrace WwPS	CSO & ERO	334428-373303	334441-373312
Ravenhill Reach WwPS	ERO	334807-373592	334778-373634

If you require any further water related environmental information about this or any other site please email details of your information request to WaterInfo@daera-ni.gov.uk

Yours sincerely,

Information Management
Water Management Unit

NIEA – WMU – WQU10427 – WATER QUALITY - RESPONSE

WFD classifications for river water bodies within the requested search radius area are recorded in the attached excel spreadsheet along with details of monitoring stations and how they were used in classification. Individual classifications of quality elements for each site and river water body are available if required.

A full description of WFD classification for freshwaters, including chemical standards and with references to supporting documents, can be found at **http://www.wfduk.org/**

Details of River Basin Management in Northern Ireland can be found at: **https://www.daera-ni.gov.uk/topics/water/river-basin-management**

River Water Body ID	Location	Local Management Area	Sitecode	Monitoring Station	IGR	Classify by site(s) or by other water body	Overall NI Site Class 2015	River Waterbody Class 2015
GBNI1NE050505126	Blackstaff (Belfast) River	Lagan	F10494	BLACKSTAFF RIVER (BELFAST) AT B	J318725	Av with F11287	MODERATE	MODERATE ECOLOGICAL POTENTIAL
GBNI1NE050505126	Blackstaff (Belfast) River	Lagan	F11287	FORTH RIVER AT BROADWAY	J319731	Av with F10494	MODERATE	MODERATE ECOLOGICAL POTENTIAL

Guidance Note:

Enquiries Relating to Regional Groundwater Aquifer and Vulnerability Classification

May 2011

An Agency within the Department of the Environment
www.doeni.gov.uk

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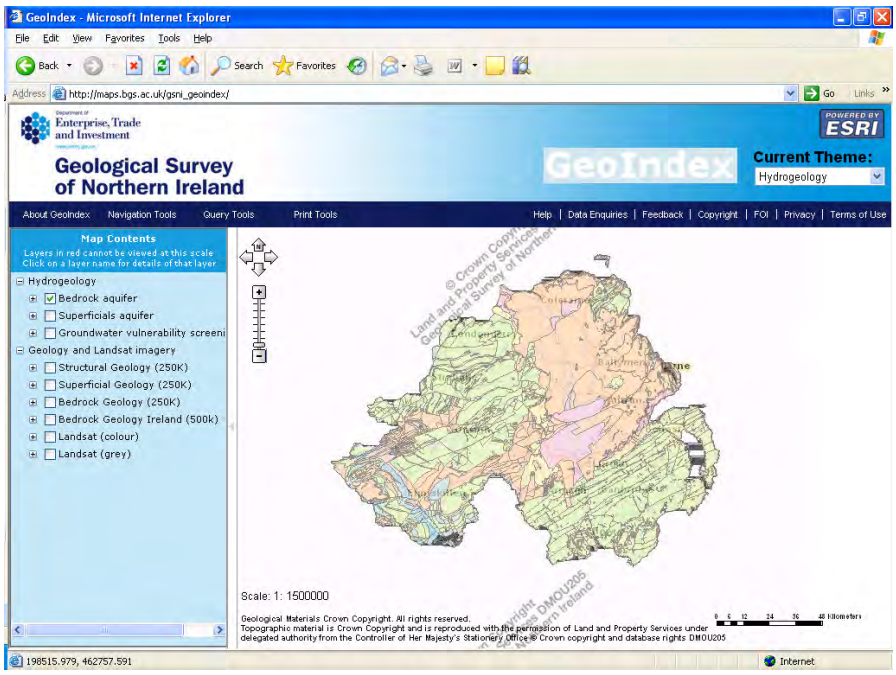
NIEA Northern Ireland Environment Agency
www.ni-environment.gov.uk

Background

Information relating to groundwater aquifer classification, superficial aquifers and groundwater vulnerability is available online directly from the Geological Survey of Northern Ireland's (GSNI) GeoIndex website:

(http://maps.bgs.ac.uk/gsni_geoindex/)

If seeking information in relation to the preparation of an environmental assessment i.e. a hydrogeological or water features survey, then it should be noted that other third party stakeholder organisations should also be contacted, in addition to the Northern Ireland Environment Agency and the Geological Survey of Northern Ireland as they might also hold relevant information. Furthermore, a prudent assessment would also usually include, as a minimum, a site visit in order to verify the information collated.



The information hosted on the GeoIndex is used by both the Northern Ireland Environment Agency Water Management Unit (NIEA WMU) and the GSNI when responding to general enquiries requesting hydrogeological information.

The GeoIndex portal allows the user to view and search the GSNI data holdings. A data enquiry form can also be submitted via the GeoIndex for further details on how to obtain the data you have discovered.

In addition to hydrogeological information, the GeoIndex portal also hosts a range of other GSNI datasets including:

- 1:250,000 bedrock, structural and superficial geology;
- Soil, water and sediment geochemistry;
- Regional geophysical survey results including magnetic, electromagnetic, radiometric and gravity datasets;
- Active quarry locations;
- Recorded mineral occurrences; and
- Mineral and mining licence information.

Using the GeoIndex

The GeoIndex portal is located at:

http://maps.bgs.ac.uk/gsni_geoindex/

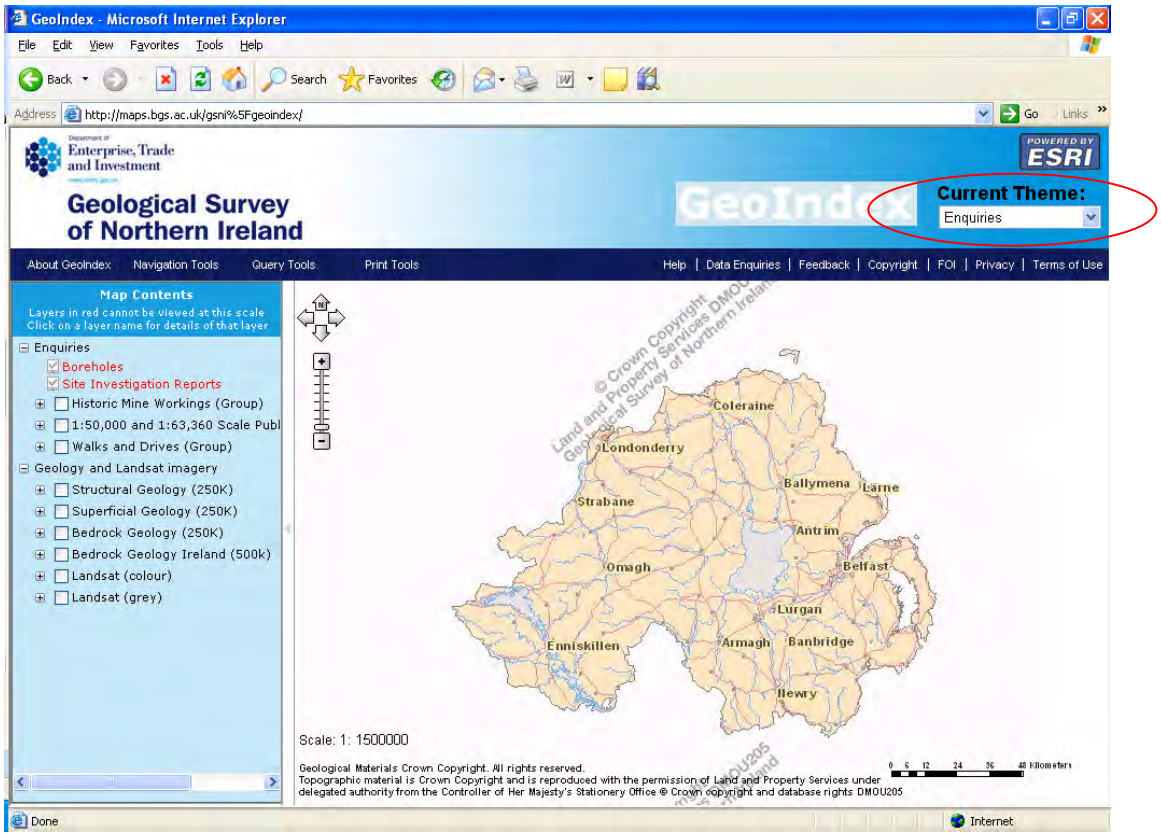
The GeoIndex provides the option of viewing datasets under 5 different topic areas (referred to as themes), namely:

- Enquiries;
- Geochemistry;
- Geophysics;
- Hydrogeology; and
- Minerals.

It should be noted however, that the information as presented on the GeoIndex portal is based on regional assessment of datasets, and cannot be directly used to determine site specific conditions without further supporting investigation and interpretation.

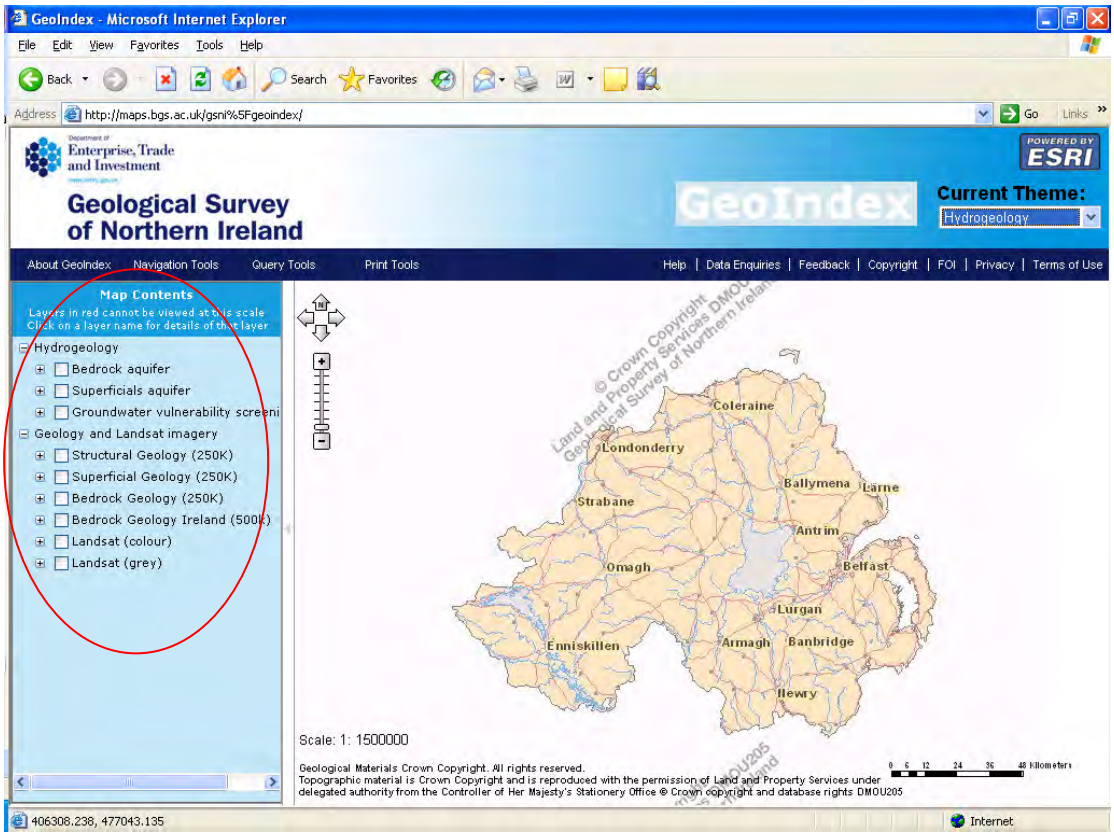
The chosen map theme can be selected via the drop down menu at the top right hand corner of the homepage. The default theme is "enquiries".

Current Map Theme:



As you toggle through the 5 map themes, you will notice the map contents on the left hand side of the page changing.

Map Contents:



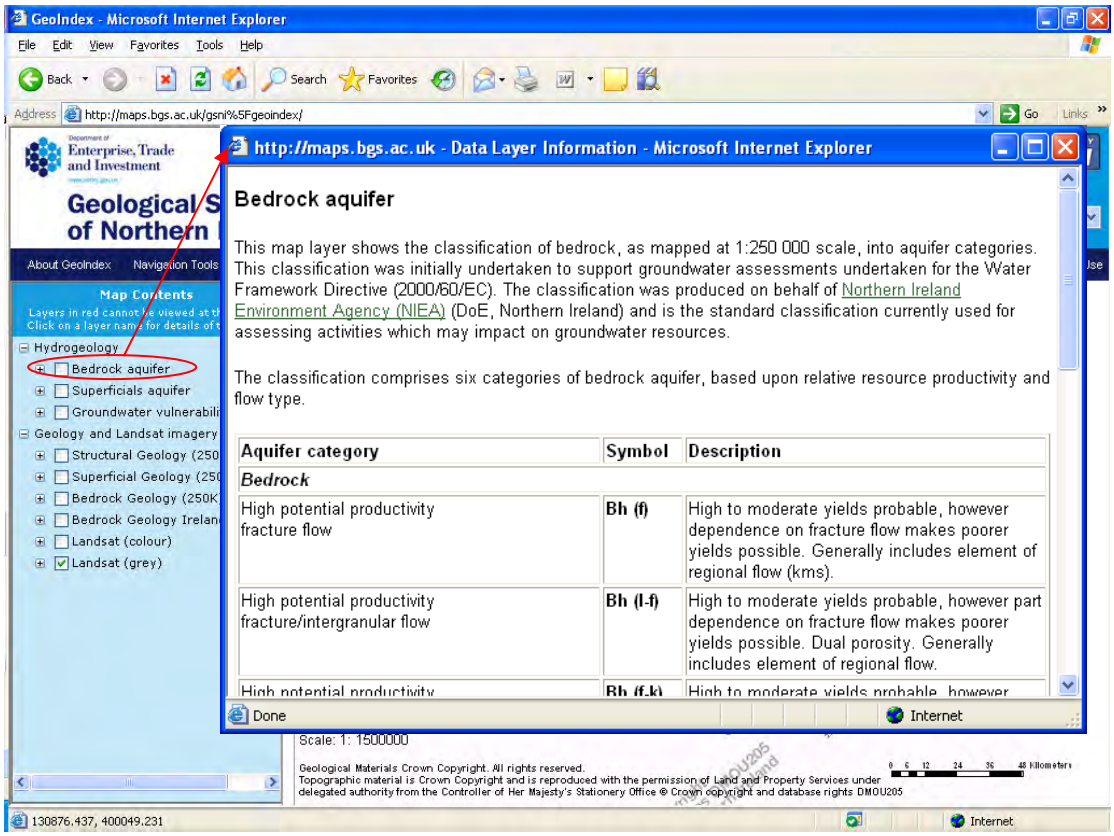
Data can be viewed regionally by zooming in and out as usual, or site specific searches can be carried out using the “Navigation Tools” option on the top toolbar.

Map content items can be expanded within the contents box, and if any further explanatory detail is needed on a particular map item, then help files can be displayed in a pop-up which is accessed by clicking on the data set name in the map contents box.

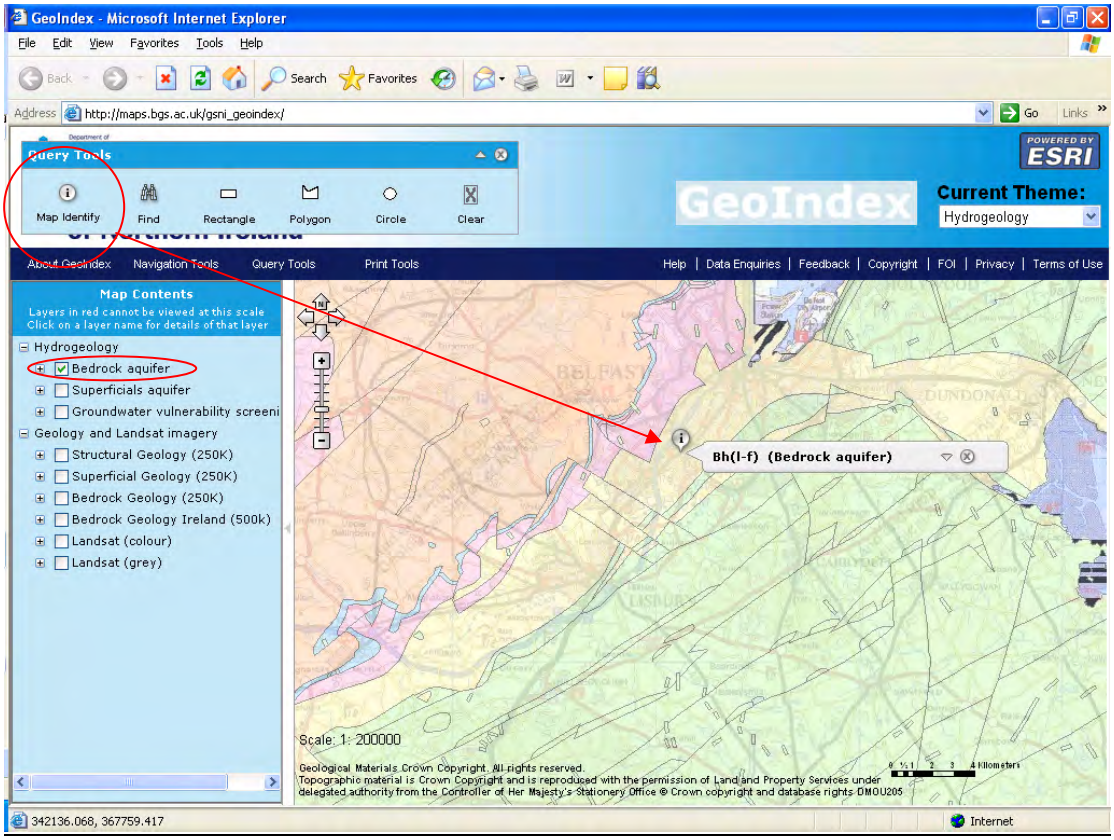
The ability to query map items (“Map Identify”) within the map window is also available under the “Query Tools” option, with the tool allowing specific identification of selected items within the data layers being viewed.

It should be noted however, that depending on the resolution of the data sets under view, users may find that data layers become greyed out and cannot be viewed if they try to zoom in beyond the level of detail appropriate to the data set. As previously highlighted, users should note that information as presented on the GeoIndex portal is based on regional assessment of datasets, and should not be directly used to determine site specific conditions.

Pop-Up Help Files



Map Identify:



Enquiries

There is also an “Enquiries” option under the map theme drop down menu, with the option of requesting borehole records or other relevant data sets as required.

It should be noted that the boreholes recorded do not relate to specific water abstractions, but instead represent records of boreholes, shafts and wells from all forms of drilling and site investigation work that have been collected by GSNI over the years. There are approximately 24,000 records dating back over 200 years and ranging between one and several thousand metres deep. New records are being added to the collection each year and will be included in GeoIndex each time it is updated. Depending on the circumstances of the request, there is usually a charge for these data sets (unless for an academic use), but further details can be obtained by contacting the GSNI. If needed, copies of these records can be purchased directly from the GSNI at gsni@detini.gov.uk .

If information relating to licensed water abstraction boreholes is required, then this information can be obtained by contacting WaterInfo@doeni.gov.uk .

Further Guidance Available

Depending on the context of your requirement for guidance, the following NIEA publications may also be relevant:

Northern Ireland Environment Agency - Groundwater Regulatory Guidance

Groundwater Remediation – Groundwater pump and treat involving water abstraction/discharge

Note 001

Northern Ireland Environment Agency - Groundwater Regulatory Guidance

Ground Source (Borehole) Geothermal Heating /

Cooling Systems

Note 002

Northern Ireland Environment Agency - Assessment of Environmental Impact (Water Resources) Mineral Workings

Advice Note

Northern Ireland Environment Agency - Cemeteries, Burials & The Water Environment

Guidance Notes

Department of Enterprise, Trade and Investment
www.detini.gov.uk

Geological Survey of Northern Ireland

Appendix D

Updated screening tables

Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number		Arsenic	Water Soluble Boron	Cadmium	Chromium VI	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Zinc		pH	Free Cyanide	Total Cyanide	Total Phenols	Total Sulphate**	Sulphide
Method Detection Limit					<0.5mg/kg	<1mg/kg	<0.1mg/kg	<0.3mg/kg	<0.5mg/kg	<1mg/kg	<5 mg/kg	<0.1mg/kg	<0.5mg/kg	<1mg/kg	<5mg/kg		<0.01	<1mg/kg	<1mg/kg	<0.01mg/kg	<100 mg/kg	<15mg/kg
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
0.50	49-51	BH101	1	METALS	5.00	<1	<0.1	<0.3	33.60	19.00	8.00	<0.1	67.80	<1	59.00	INORGANICS	8.46	<1	<1	<0.01	395.00	<15
0.50	76-78	BH102	2		5.80	<1	<0.1	<0.3	41.20	26.00	7.00	<0.1	66.20	1.00	50.00		8.70	<1	<1	<0.01	348.00	<15
0.50	91-93	WS215	3		5.40	<1	0.20	<0.3	58.70	40.00	21.00	<0.1	69.10	<1	88.00		8.64	<1	<1	<0.01	423.00	<15
0.50	118-120	WS214	4		6.50	<1	<0.1	<0.3	38.80	87.00	<5	<0.1	62.10	1.00	43.00		8.82	<1	<1	<0.01	371.00	<15
0.50	169-171	WS204	5		5.00	<1	<0.1	<0.3	43.80	15.00	18.00	<0.1	68.00	1.00	72.00		8.44	<1	<1	<0.01	667.00	<15
0.50	427-429	BH100	6																			
1.00	172-174	WS204	7																			
1.00	199-201	WS205	8		6.10	<1	<0.1	<0.3	39.80	87.00	<5	<0.1	65.90	1.00	52.00		8.51	<1	<1	<0.01	380.00	<15
1.50	202-204	WS205	9																			
2.00	97-99	WS215	10		6.40	2.00	0.20	<0.3	40.90	36.00	69.00	0.40	50.10	<1	94.00		7.98	<1	13.00	<0.01	2897.00	<15
2.00	124-126	WS214	11		1.10	2.00	<0.1	<0.3	64.80	70.00	42.00	0.40	152.60	1.00	84.00		10.21	<1	1.00	<0.01	1822.00	22.00
2.00	175-177	WS204	12		6.80	3.00	<0.1	<0.3	32.80	48.00	86.00	0.40	62.40	1.00	106.00		8.29	<1	11.00	<0.01	1008.00	85.00
2.50	58-60	BH101	13		7.60	1.00	0.20	<0.3	38.20	42.00	54.00	0.10	58.20	1.00	84.00		8.24	<1	3.00	<0.01	757.00	<15
2.50	85-87	BH102	14		7.90	3.00	0.20	<0.3	47.30	39.00	67.00	0.30	59.90	<1	88.00		8.12	<1	17.00	<0.01	3253.00	<15
2.50	205-207	WS205	15		5.60	2.00	<0.1	<0.3	38.50	10.00	132.00	0.30	52.00	<1	96.00		7.96	<1	13.00	<0.01	2590.00	25.00
3.00	178-180	WS204	16																			
3.50	208-210	WS205	17																			
4.00	130-132	WS214	18		3.30	3.00	<0.1	<0.3	58.00	29.00	6.00	<0.1	65.80	<1	79.00		8.72	<1	<1	<0.01	827.00	<15
4.00	181-183	WS204	19		2.90	3.00	<0.1	<0.3	31.30	4.00	60.00	0.20	48.00	<1	58.00		8.48	<1	<1	<0.01	496.00	130.00
5.00	184-186	WS204	20																			
5.00	214-216	WS205	21		2.00	4.00	<0.1	<0.3	52.10	7.00	5.00	0.10	62.30	1.00	73.00		8.96	<1	<1	<0.01	652.10	<15
6.00	136-138	WS214	22		3.50	3.00	<0.1	<0.3	52.80	29.00	<5	<0.1	63.00	<1	73.00		9.62	<1	<1	<0.01	689.00	<15
6.00	217-219	WS205	23																			
7.00	112-114	WS215	24		8.20	3.00	0.90	<0.3	41.40	396.00	520.00	2.50	83.00	<1	331.00		8.31	<1	1.00	<0.01	1924.00	36.00
7.00	190-192	WS204	25		2.40	3.00	<0.1	<0.3	52.30	7.00	7.00	<0.1	62.30	1.00	72.00		9.40	<1	<1	<0.01	364.00	<15
8.00	67-69	BH101	26		3.70	2.00	<0.1	<0.3	50.00	28.00	<5	0.10	60.30	<1	68.00		9.67	<1	<1	<0.01	411.00	<15
8.00	223-225	WS205	27		2.90	3.00	<0.1	<0.3	49.90	5.00	6.00	<0.1	62.20	1.00	71.00		9.43	<1	<1	<0.01	438.60	<15
11.80	73-75	BH101	28		1.10	<1	<0.1	<0.3	18.70	10.00	<5	<0.1	21.20	<1	23.00		8.82	<1	<1	<0.01	129.00	<15
SGV commercial (SOM 6%)					640		230					26		13000						3200		
CL:AIRE GAC commercial (SOM 1%)																						
CL:AIRE GAC commercial (SOM 2.5%)																						
CL:AIRE GAC commercial (SOM 6%)																						
S4UL commercial (SOM 1%)																				440		
S4UL commercial (SOM 2.5%)																				690		
S4UL commercial (SOM 6%)					640	240000	190	33	8600 (CrIII)	68000		58	980	12000	730000					1300		

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Made Ground
Fill
Concrete
Boulder Clay
Sand

Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	Total Sulphur	Thiocyanate	FOC	TOC	SOM	Asbestos	PAHs	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)+Benzo(k) fluoranthene	Benzo(a)pyrene
Method Detection Limit				<0.01%	<1mg/kg						<0.03 mg/kg	<0.02 mg/kg	<0.02 mg/kg	<0.02 mg/kg	<0.02 mg/kg	<0.02 mg/kg	<0.02 mg/kg	<0.03 mg/kg	<0.02 mg/kg	<0.04 mg/kg	<0.04 mg/kg	<0.02 mg/kg
				%	mg/kg		%	%			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
0.50	49-51	BH101	1	0.12	<1	<0.002	<0.2	<0.2	NFD		<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02
0.50	76-78	BH102	2	0.03	<1	<0.002	<0.2	<0.2	NFD		<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02
0.50	91-93	WS215	3	0.19	<1	0.01	0.60	1.04	NFD		<0.03	0.12	0.03	0.03	0.20	0.10	0.30	0.28	0.32	0.27	0.49	0.32
0.50	118-120	WS214	4	0.11	<1	<0.002	<0.2	<0.2	NFD		<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02
0.50	169-171	WS204	5	0.19	<1	0.01	0.60	1.05	NFD		<0.03	0.31	0.06	0.11	0.71	0.39	1.21	1.10	0.79	0.61	1.05	0.68
0.50	427-429	BH100	6																			
1.00	172-174	WS204	7																			
1.00	199-201	WS205	8	0.05	<1	<0.002	0.27	0.46	NFD		<0.03	<0.02	<0.02	<0.02	0.06	0.03	0.06	0.05	0.06	0.06	0.09	0.05
1.50	202-204	WS205	9																			
2.00	97-99	WS215	10	0.11	<1	0.03	2.70	4.70	NFD		<0.03	1.22	0.35	0.53	2.60	1.20	3.56	3.24	2.05	1.85	2.82	1.89
2.00	124-126	WS214	11	0.08	68.00	0.01	1.10	1.91	NFD		<0.03	0.34	0.40	0.52	3.70	1.28	3.68	2.86	1.24	1.59	2.26	1.50
2.00	175-177	WS204	12	0.15	<1	0.03	3.47	6.03	NFD		<0.03	0.54	0.19	0.27	0.98	0.56	1.69	1.65	1.21	0.95	1.67	1.20
2.50	58-60	BH101	13	0.07	<1	0.03	2.80	4.87	NFD		0.94	1.73	0.53	0.90	2.15	1.49	2.81	3.50	1.87	1.50	2.48	1.90
2.50	85-87	BH102	14	0.06	<1	0.04	4.30	7.48	NFD		2.16	2.28	0.64	1.61	6.40	4.26	9.29	8.09	6.13	5.44	7.68	5.00
2.50	205-207	WS205	15	0.13	<1	0.05	4.57	7.94	NFD		<0.03	0.59	0.17	0.30	1.25	0.73	1.87	1.86	1.21	1.25	1.93	1.36
3.00	178-180	WS204	16																			
3.50	208-210	WS205	17																			
4.00	130-132	WS214	18	0.27	<1	0.00	0.20	0.35	NFD		<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02
4.00	181-183	WS204	19	0.05	<1	0.01	1.24	2.16	NFD		<0.03	0.09	0.00	0.03	0.11	0.10	0.29	0.25	0.40	0.53	0.67	0.43
5.00	184-186	WS204	20																			
5.00	214-216	WS205	21	0.01	35.00	<0.002	0.20	0.34	NFD		<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	0.06	0.05	0.09	0.05
6.00	136-138	WS214	22	0.02	9.00	0.00	0.20	0.35	NFD		<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02
6.00	217-219	WS205	23																			
7.00	112-114	WS215	24	0.10	<1	0.03	3.20	5.57	NFD		<0.03	0.16	0.05	0.06	0.60	0.30	1.32	1.17	0.79	0.78	1.54	0.87
7.00	190-192	WS204	25	<0.01	<1	<0.002	0.23	0.40	NFD		<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02
8.00	67-69	BH101	26	<0.01	<1	0.00	0.20	0.35	NFD		<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02
8.00	223-225	WS205	27	<0.01	<1	<0.002	0.21	0.37	NFD		<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02
11.80	73-75	BH101	28	0.01	<1	<0.002	<0.2	<0.2	NFD		<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02
SGV commercial (SOM 6%)																						
CL:AIRE GAC commercial (SOM 1%)																						
CL:AIRE GAC commercial (SOM 2.5%)																						
CL:AIRE GAC commercial (SOM 6%)																						
S4UL commercial (SOM 1%)											190	83000	84000	63000	22000	520000	23000	54000	170	350	44	35
S4UL commercial (SOM 2.5%)											460	97000	97000	68000	22000	540000	23000	54000	170	350	44	35
S4UL commercial (SOM 6%)											1100	100000	100000	71000	23000	540000	23000	54000	180	350	45	36

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Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	Indeno(123cd)pyrene	Dibenzo(ah)anthracene	Benzo(ghi)perylene	Total 16 EPA PAHs	PCBs	PCB Congener 28	PCB Congener 52	PCB Congener 101	PCB Congener 118	PCB Congener 153	PCB Congener 138	PCB Congener 180	PCB Total of 7 Congeners	HYDROCARBONS MTBE BTEX	Aliphatics EC C5-C6	Aliphatics EC>C6-C8	Aliphatics EC>C8-C10	Aliphatics EC>C10-C12	Aliphatics EC>C12-C16
Method Detection Limit				<0.02 mg/kg	<0.02 mg/kg	<0.04 mg/kg	<0.38 mg/kg		<5ug/kg	<5ug/kg	<5ug/kg	<5ug/kg	<5ug/kg	<5ug/kg	<5ug/kg	<35ug/kg		<0.1 mg/kg	<0.1 mg/kg	<0.1 mg/kg	<5 mg/kg	<5 mg/kg
				mg/kg	mg/kg	mg/kg	mg/kg		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
0.50	49-51	BH101	1	<0.02	<0.02	<0.04	<0.38											<0.1	<0.1	<0.1	<0.1	<5
0.50	76-78	BH102	2	<0.02	<0.02	<0.04	<0.38											<0.1	<0.1	<0.1	<0.1	<5
0.50	91-93	WS215	3	0.20	0.06	0.22	2.96											<0.1	<0.1	<0.1	<0.1	<5
0.50	118-120	WS214	4	<0.02	<0.02	<0.04	<0.38											<0.1	<0.1	<0.1	<0.1	<5
0.50	169-171	WS204	5	0.41	0.13	0.34	7.90															
0.50	427-429	BH100	6																			
1.00	172-174	WS204	7															<0.1	0.23	1.07	<0.1	43.00
1.00	199-201	WS205	8	0.04	<0.02	<0.04	0.52											<0.1	<0.1	<0.1	<0.1	<5
1.50	202-204	WS205	9																			
2.00	97-99	WS215	10	1.15	0.29	1.16	23.90															
2.00	124-126	WS214	11	0.88	0.20	0.89	21.34															
2.00	175-177	WS204	12	0.72	0.17	0.61	12.41															
2.50	58-60	BH101	13	1.13	0.19	0.97	24.08											<0.1	<0.1	<0.1	<0.1	38.00
2.50	85-87	BH102	14	2.36	0.84	2.41	64.59											<0.1	<0.1	<0.1	<0.1	60.00
2.50	205-207	WS205	15	0.69	0.22	0.74	14.16											<0.1	<0.1	0.38	0.10	45.00
3.00	178-180	WS204	16															<0.1	<0.1	0.22	<0.1	<5
3.50	208-210	WS205	17																			
4.00	130-132	WS214	18	<0.02	<0.02	<0.04	<0.38											<0.1	<0.1	<0.1	<0.1	<5
4.00	181-183	WS204	19	0.23	0.13	0.21	3.46															
5.00	184-186	WS204	20															<0.1	<0.1	0.16	<0.1	<5
5.00	214-216	WS205	21	0.06	0.08	0.06	0.45											<0.1	0.36	0.37	<0.1	<5
6.00	136-138	WS214	22	<0.02	<0.02	<0.04	<0.38															
6.00	217-219	WS205	23																			
7.00	112-114	WS215	24	0.54	0.22	0.53	8.93															
7.00	190-192	WS204	25	<0.02	<0.02	<0.04	<0.38															
8.00	67-69	BH101	26	<0.02	<0.02	<0.04	<0.38															
8.00	223-225	WS205	27	<0.02	<0.02	<0.04	<0.38											<0.1	<0.1	<0.1	<0.1	<5
11.80	73-75	BH101	28	<0.02	<0.02	<0.04	<0.38											<0.1	<0.1	<0.1	<0.1	<5
SGV commercial (SOM 6%)																						
CL:AIRE GAC commercial (SOM 1%)																						
CL:AIRE GAC commercial (SOM 2.5%)																						
CL:AIRE GAC commercial (SOM 6%)																						
S4UL commercial (SOM 1%)				500	3.5	3900												3200	7800	2000	9700	59000
S4UL commercial (SOM 2.5%)				510	3.6	4000												5900	17000	4800	23000	82000
S4UL commercial (SOM 6%)				510	3.6	4000												12000	40000	11000	47000	90000

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Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	Aliphatics EC>C16-C21	Aliphatics EC>C21-C35	Total Aliphatics	Aromatics EC C5-C7	Aromatics EC>C7-C8	Aromatics EC>C8-C10	Aromatics EC>C10-C12	Aromatics EC>C12-C16	Aromatics EC>C16-C21	Aromatics EC>C21-C35	Total Aromatics	TPH	Mineral Oil	MTBE	Benzene	Toluene	Ethylbenzene	m/p-Xylene	o-Xylene
Method Detection Limit				<5 mg/kg	<5 mg/kg	<15 mg/kg	<0.1 mg/kg	<0.1 mg/kg	<0.1 mg/kg	<5mg/kg	<5 mg/kg	<5 mg/kg	<5 mg/kg	<15 mg/kg	<30 mg/kg	<30 mg/kg	<2 ug/kg	<3 ug/kg	<3 ug/kg	<3ug/kg	<5 ug/kg	<3 ug/kg
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
0.50	49-51	BH101	1	<5	<5	<15	<0.1	<0.1	0.10	0.10	<5	<5	<5	<15	<30	<30	<2	70.00	16.00	5.00	5.00	<3
0.50	76-78	BH102	2	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	4.00	4.00	3.00	5.00	<3
0.50	91-93	WS215	3	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	10.00	4.00	<3	<5	<3
0.50	118-120	WS214	4	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	5.00	9.00	<3	<5	<3
0.50	169-171	WS204	5													<30						
0.50	427-429	BH100	6																			
1.00	172-174	WS204	7	61.00	89.00	194.00	<0.1	<0.1	0.42	8.80	138.00	394.00	511.00	1052.00	1246.00		<3	71.40	21.42	177.31	61.88	178.50
1.00	199-201	WS205	8	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	48.15	19.26	16.05	14.98	11.77
1.50	202-204	WS205	9																			
2.00	97-99	WS215	10													211.00						
2.00	124-126	WS214	11													<30						
2.00	175-177	WS204	12													190.00						
2.50	58-60	BH101	13	42.00	9.00	89.00	<0.1	0.10	<0.1	0.50	51.00	126.00	321.00	499.00	588.00	89.00	<2	83.00	28.00	28.00	28.00	14.00
2.50	85-87	BH102	14	70.00	12.00	142.00	<0.1	0.10	0.20	1.10	44.00	115.00	300.00	460.00	602.00	142.00	<2	103.00	17.00	40.00	41.00	19.00
2.50	205-207	WS205	15	101.00	55.00	201.00	<0.1	<0.1	<0.1	1.60	38.00	175.00	407.00	622.00	823.00	201.00	<2	52.48	8.96	26.88	29.44	14.08
3.00	178-180	WS204	16	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30		<2	16.51	15.24	3.81	<5	<3
3.50	208-210	WS205	17																			
4.00	130-132	WS214	18	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	6.00	8.00	<3	<5	<3
4.00	181-183	WS204	19													<30						
5.00	184-186	WS204	20	<5	<5	<15	<0.1	<0.1	<0.1	0.10	<5	<5	<5	<15	<30		<2	11.34	7.56	8.82	16.38	21.42
5.00	214-216	WS205	21	<5	<5	<15	0.15	<0.1	0.32	0.90	<5	<5	<5	<15	<30	<30	<2	145.00	107.50	55.00	162.50	101.25
6.00	136-138	WS214	22													<30						
6.00	217-219	WS205	23																			
7.00	112-114	WS215	24													<30						
7.00	190-192	WS204	25													<30						
8.00	67-69	BH101	26													<30						
8.00	223-225	WS205	27	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	33.28	8.96	44.80	28.16	38.40
11.80	73-75	BH101	28	<5	<5	<15	<0.1	0.70	0.50	1.00	<5	<5	<5	<15	<30	<30	<2	177.00	40.00	21.00	28.00	13.00
SGV commercial (SOM 6%)																		95000	4400000	2800000		
CL:AIRE GAC commercial (SOM 1%)																	7900000					
CL:AIRE GAC commercial (SOM 2.5%)																	13000000					
CL:AIRE GAC commercial (SOM 6%)																	24000000					
S4UL commercial (SOM 1%)				1600000			26000	56000	3500	16000	36000	28000	28000					27000	56000000	5700000	5900000	6600000
S4UL commercial (SOM 2.5%)				1700000			46000	110000	8100	28000	37000	28000	28000					47000	110000000	13000000	14000000	15000000
S4UL commercial (SOM 6%)				1800000			86000	180000	17000	34000	38000	28000	28000					90000	180000000	27000000	30000000	33000000

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Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number		Dichlorodifluoromethane	MTBE	Chloromethane	Vinyl Chloride	Bromomethane	Chloroethane	Trichlorofluoromethane	1,1-Dichloroethene	Dichloromethane	Trans-1,2-Dichloroethene	1,1-Dichloroethane	Cis-1,2-Dichloroethene	2,2-Dichloropropane	Bromochloromethane	Chloroform	1,1,1-Trichloroethane	1,1-Dichloropropene	Carbontetrachloride
Method Detection Limit					<2 ug/kg	<2 ug/kg	<3 ug/kg	<2 ug/kg	<1 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<1 ug/kg	<2 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<2 ug/kg
					ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
0.50	49-51	BH101	1	VOCs	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2
0.50	76-78	BH102	2		<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2
0.50	91-93	WS215	3		<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2
0.50	118-120	WS214	4		<2	<2	<3	<2	<1	<3	<3	<3	8.00	<3	<3	3.00	<1	<2	<3	<3	<3	<2
0.50	169-171	WS204	5																			
0.50	427-429	BH100	6		<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2
1.00	172-174	WS204	7		<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2
1.00	199-201	WS205	8																			
1.50	202-204	WS205	9		<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2
2.00	97-99	WS215	10		<3	<3	<3	<1	<2	<3	<3	<3	<2	90.00	<3	<2	<3	<3	<2	18.00	<2	<2
2.00	124-126	WS214	11																			
2.00	175-177	WS204	12																			
2.50	58-60	BH101	13		<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2
2.50	85-87	BH102	14		<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2
2.50	205-207	WS205	15																			
3.00	178-180	WS204	16		<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2
3.50	208-210	WS205	17		<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2
4.00	130-132	WS214	18		<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	3.00	<1	<2	<3	<3	<3	<2
4.00	181-183	WS204	19																			
5.00	184-186	WS204	20		<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2
5.00	214-216	WS205	21																			
6.00	136-138	WS214	22																			
6.00	217-219	WS205	23		<2	<2	6.00	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2
7.00	112-114	WS215	24																			
7.00	190-192	WS204	25		<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2
8.00	67-69	BH101	26																			
8.00	223-225	WS205	27																			
11.80	73-75	BH101	28		<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2
SGV commercial (SOM 6%)																						
CL:AIRE GAC commercial (SOM 1%)						7900000	1000			960000		26000	270000	22000	280000	14000						
CL:AIRE GAC commercial (SOM 2.5%)						13000000	1200			1300000		46000	360000	40000	450000	24000						
CL:AIRE GAC commercial (SOM 6%)						24000000	1600			2100000		92000	560000	81000	850000	47000						
S4UL commercial (SOM 1%)								59											99000	660000		2900
S4UL commercial (SOM 2.5%)								77											170000	1300000		6300
S4UL commercial (SOM 6%)								120											350000	3000000		14000

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Sand

Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	1,2-Dichloroethane	Benzene	Trichloroethene	1,2-Dichloropropane	Dibromomethane	Bromodichloromethane	Cis-1,3-Dichloropropene	Toluene	Trans-1,3-Dichloropropene	1,1,2-Trichloroethane	Tetrachloroethene	1,3-Dichloropropane	Dibromochloromethane	1,2-Dibromoethane	Chlorobenzene	1,1,1,2-tetrachloroethane	Ethylbenzene	p/m-Xylene	o-Xylene
Method Detection Limit				<2 ug/kg	<3 ug/kg	<3 ug/kg	<2 ug/kg	<3 ug/kg	<3 ug/kg	<2 ug/kg	<3 ug/kg	<2 ug/kg	<2 ug/kg	<3 ug/kg	<2 ug/kg	<2 ug/kg	<2 ug/kg	<2 ug/kg	<2 ug/kg	<3 ug/kg	<5 ug/kg	<3 ug/kg
				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
0.50	49-51	BH101	1	<2	70.00	<3	<2	<3	<3	<2	16.00	<2	<2	<3	<2	<2	<2	<2	<2	5.00	5.00	<3
0.50	76-78	BH102	2	<2	4.00	<3	<2	<3	<3	<2	4.00	<2	<2	<3	<2	<2	<2	<2	<2	3.00	5.00	<3
0.50	91-93	WS215	3	<2	10.00	<3	<2	<3	<3	<2	4.00	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3
0.50	118-120	WS214	4	<2	5.00	<3	<2	<3	<3	<2	9.00	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3
0.50	169-171	WS204	5																			
0.50	427-429	BH100	6	<2	<3	<3	<2	<3	<3	<2	5.00	<2	<2	<3	<2	<2	<2	<2	<2	4.00	6.00	<3
1.00	172-174	WS204	7	<2	134.00	<3	<2	<3	<3	<2	46.00	<2	<2	<3	<2	<2	<2	<2	<2	427.00	192.00	328.00
1.00	199-201	WS205	8																			
1.50	202-204	WS205	9	<2	41.00	<3	<2	<3	<3	<2	15.00	<2	<2	<3	<2	<2	<2	<2	<2	20.00	33.00	21.00
2.00	97-99	WS215	10	<3	<2	<2	<2	<2	<2	81.00	54.00	41.00	10.00	<2	17.00	<4	<2	<3	17.00	<3	50.00	<3
2.00	124-126	WS214	11																			
2.00	175-177	WS204	12																			
2.50	58-60	BH101	13	<2	83.00	<3	<2	<3	<3	<2	28.00	<2	<2	<3	<2	<2	<2	<2	<2	28.00	28.00	14.00
2.50	85-87	BH102	14	<2	103.00	<3	<2	<3	<3	<2	17.00	<2	<2	<3	<2	<2	<2	<2	<2	40.00	41.00	19.00
2.50	205-207	WS205	15																			
3.00	178-180	WS204	16	<2	29.00	<3	<2	<3	<3	<2	11.00	<2	<2	<3	<2	<2	<2	<2	<2	9.00	13.00	6.00
3.50	208-210	WS205	17	<2	4.00	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	24.00	42.00	31.00
4.00	130-132	WS214	18	<2	6.00	<3	<2	<3	<3	<2	8.00	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3
4.00	181-183	WS204	19																			
5.00	184-186	WS204	20	<2	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3
5.00	214-216	WS205	21																			
6.00	136-138	WS214	22																			
6.00	217-219	WS205	23	<2	243.00	<3	<2	<3	<3	<2	196.00	<2	<2	<3	<2	<2	<2	<2	<2	68.00	210.00	100.00
7.00	112-114	WS215	24																			
7.00	190-192	WS204	25	<2	11.00	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3
8.00	67-69	BH101	26																			
8.00	223-225	WS205	27																			
11.80	73-75	BH101	28	<2	177.00	<3	<2	<3	<3	<2	40.00	<2	<2	<3	<2	<2	<2	<2	<2	21.00	28.00	13.00
SGV commercial (SOM 6%)					95000						4400000									2800000		
CL:AIRE GAC commercial (SOM 1%)							3300		2100				94000									
CL:AIRE GAC commercial (SOM 2.5%)							5900		3700				190000									
CL:AIRE GAC commercial (SOM 6%)							12000		7600				400000									
S4UL commercial (SOM 1%)				670	27000	1200					56000000			19000				56000	110000	5700000	5900000	6600000
S4UL commercial (SOM 2.5%)				970	47000	2600					110000000			42000				130000	250000	13000000	14000000	15000000
S4UL commercial (SOM 6%)				1700	90000	5700					180000000			95000				290000	560000	27000000	30000000	33000000

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Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	Styrene	Bromoform	Isopropylbenzene	1,1,2,2-Tetrachloroethane	Bromobenzene	1,2,3-Trichloropropane	Propylbenzene	2-Chlorotoluene	1,3,5-Trimethylbenzene	4-Chlorotoluene	Tert-Butylbenzene	1,2,4-Trimethylbenzene	Sec-Butylbenzene	4-Isopropyltoluene	1,4-Dichlorobenzene	1,3-Dichlorobenzene	n-Butylbenzene	1,2-Dichlorobenzene	1,2-Dibromo-3-Chloropropane
Method Detection Limit				<2 ug/kg	<2 ug/kg	<3 ug/kg	<4 ug/kg	<2 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<2 ug/kg
				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
0.50	49-51	BH101	1	<2	<2	<3	<4	<2	<3	<3	<3	<3	<3	<3	12.00	<3	<3	<3	<3	<3	<3	<2
0.50	76-78	BH102	2	<2	<2	<3	<4	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2
0.50	91-93	WS215	3	<2	<2	<3	<4	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2
0.50	118-120	WS214	4	<2	<2	<3	<4	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2
0.50	169-171	WS204	5																			
0.50	427-429	BH100	6	<2	<2	<3	<4	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2
1.00	172-174	WS204	7	<2	<2	49.00	<4	<2	<3	49.00	<3	159.00	<3	<3	1000.00	<3	<3	<3	<3	132.00	<3	<2
1.00	199-201	WS205	8																			
1.50	202-204	WS205	9	<2	<2	<3	<4	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2
2.00	97-99	WS215	10	<3	192.00	<3	31.00	<3	<3	<3	<3	<2	<3	<3	359.00	<3						
2.00	124-126	WS214	11																			
2.00	175-177	WS204	12																			
2.50	58-60	BH101	13	7.00	<2	<3	<4	<2	<3	<3	<3	<3	<3	<3	12.00	<3	<3	<3	<3	<3	<3	<2
2.50	85-87	BH102	14	8.00	<2	9.00	<4	<2	<3	<3	<3	<3	<3	<3	28.00	<3	<3	<3	<3	<3	<3	<2
2.50	205-207	WS205	15																			
3.00	178-180	WS204	16	<2	<2	<3	<4	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2
3.50	208-210	WS205	17	<2	<2	31.00	<4	<2	<3	22.00	<3	77.00	<3	<3	294.00	<3	15.00	<3	<3	42.00	<3	<2
4.00	130-132	WS214	18	<2	<2	<3	<4	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2
4.00	181-183	WS204	19																			
5.00	184-186	WS204	20	<2	<2	<3	<4	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2
5.00	214-216	WS205	21																			
6.00	136-138	WS214	22																			
6.00	217-219	WS205	23	39.00	<2	<3	<4	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2
7.00	112-114	WS215	24																			
7.00	190-192	WS204	25	<2	<2	<3	<4	<2	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2
8.00	67-69	BH101	26																			
8.00	223-225	WS205	27																			
11.80	73-75	BH101	28	<2	<2	<3	<4	<2	<3	<3	<3	<3	<3	<3	10.00	<3	<3	<3	<3	<3	<3	<2
SGV commercial (SOM 6%)																						
CL:AIRE GAC commercial (SOM 1%)				3300000		1400000		97000		4100000					42000							
CL:AIRE GAC commercial (SOM 2.5%)				6500000		3300000		220000		9700000					99000							
CL:AIRE GAC commercial (SOM 6%)				11000000		7700000		520000		21000000					220000							
S4UL commercial (SOM 1%)							270000											4400000	30000		2000000	
S4UL commercial (SOM 2.5%)							550000											10000000	73000		4800000	
S4UL commercial (SOM 6%)							1100000											25000000	170000		11000000	

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Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	1,2,4-Trichlorobenzene	Hexachlorobutadiene	Naphthalene	1,2,3-Trichlorobenzene	SVOCs	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	4-Chloro-3-methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol	2-Chloronapthalene	2-Methylnapthalene
Method Detection Limit				<3 ug/kg	<3 ug/kg	<2 ug/kg	<3 ug/kg		<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg
				ug/kg	ug/kg	ug/kg	ug/kg		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	mg/kg	ug/kg	ug/kg
0.50	49-51	BH101	1	<3	<3	<2	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	76-78	BH102	2	<3	<3	15.00	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	91-93	WS215	3	<3	<3	15.00	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	118-120	WS214	4	<3	<3	7.00	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	169-171	WS204	5																			
0.50	427-429	BH100	6	<3	<3	39.00	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	172-174	WS204	7	<3	<3	1804.00	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	824.12
1.00	199-201	WS205	8																			
1.50	202-204	WS205	9	<3	<3	573.00	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	478.43
2.00	97-99	WS215	10						<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	305.70
2.00	124-126	WS214	11																			
2.00	175-177	WS204	12																			
2.50	58-60	BH101	13	<3	<3	223.00	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	75.60
2.50	85-87	BH102	14	<3	<3	255.00	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	112.06
2.50	205-207	WS205	15																			
3.00	178-180	WS204	16	<3	<3	244.00	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.50	208-210	WS205	17	<3	<3	3814.00	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.00	130-132	WS214	18	<3	<3	5.00	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.00	181-183	WS204	19																			
5.00	184-186	WS204	20	<3	<3	25.00	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5.00	214-216	WS205	21																			
6.00	136-138	WS214	22																			
6.00	217-219	WS205	23	<3	<3	328.00	<3		<10	64.93	<10	<10	197.29	<10	<10	<10	109.89	<10	<10	<10	<10	<10
7.00	112-114	WS215	24																			
7.00	190-192	WS204	25	<3	<3	13.00	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	HPLC	<10	<10
8.00	67-69	BH101	26																			
8.00	223-225	WS205	27																			
11.80	73-75	BH101	28	<3	<3	392.00	<3		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SGV commercial (SOM 6%)																				3200000		
CL:AIRE GAC commercial (SOM 1%)										160000000*			16000000				160000000*				390000	
CL:AIRE GAC commercial (SOM 2.5%)										180000000*			24000000				180000000*				960000	
CL:AIRE GAC commercial (SOM 6%)										180000000*			30000000				180000000*				2200000	
S4UL commercial (SOM 1%)				220000	31000	190000	102000		3500000			3500000			3500000				400000	440000		
S4UL commercial (SOM 2.5%)				530000	66000	460000	250000		4000000			4000000			4000000				400000	690000		
S4UL commercial (SOM 6%)				1300000	120000	1100000	590000		4300000			4300000			4300000				400000	1300000		

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* 2-, 3- and 4- methylphenol total

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Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	Bis(2-ethylhexyl) phthalate	Butylbenzene phthalate	Di-n-butyl phthalate	Di-n-Octyl phthalate	Diethyl phthalate	Dimethyl phthalate	1,2-Dichlorobenzene	1,2,4-Trichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Nitroaniline	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3-Nitroaniline	4-Bromophenylphenylether	4-Chloroaniline	4-Chlorophenylphenylether	4-Nitroaniline	Azobenzene
Method Detection Limit				<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg
				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
0.50	49-51	BH101	1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	76-78	BH102	2	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	91-93	WS215	3	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	118-120	WS214	4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	169-171	WS204	5																			
0.50	427-429	BH100	6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	172-174	WS204	7	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	199-201	WS205	8																			
1.50	202-204	WS205	9	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2.00	97-99	WS215	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2.00	124-126	WS214	11																			
2.00	175-177	WS204	12																			
2.50	58-60	BH101	13	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2.50	85-87	BH102	14	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2.50	205-207	WS205	15																			
3.00	178-180	WS204	16	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.50	208-210	WS205	17	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.00	130-132	WS214	18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.00	181-183	WS204	19																			
5.00	184-186	WS204	20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5.00	214-216	WS205	21																			
6.00	136-138	WS214	22																			
6.00	217-219	WS205	23	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
7.00	112-114	WS215	24																			
7.00	190-192	WS204	25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8.00	67-69	BH101	26																			
8.00	223-225	WS205	27																			
11.80	73-75	BH101	28	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SGV commercial (SOM 6%)																						
CL:AIRE GAC commercial (SOM 1%)				85000000	940000000	15000000	89000000	150000000							3700000	1900000						
CL:AIRE GAC commercial (SOM 2.5%)				86000000	940000000	15000000	89000000	220000000							3700000	1900000						
CL:AIRE GAC commercial (SOM 6%)				86000000	950000000	15000000	89000000	290000000							3800000	1900000						
S4UL commercial (SOM 1%)																						
S4UL commercial (SOM 2.5%)																						
S4UL commercial (SOM 6%)																						

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Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Carbazole	Dibenzofuran	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	N-nitrosodi-n-propylamine	Nitrobenzene
Method Detection Limit				<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg
				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
0.50	49-51	BH101	1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	76-78	BH102	2	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	91-93	WS215	3	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	118-120	WS214	4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	169-171	WS204	5											
0.50	427-429	BH100	6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	172-174	WS204	7	<10	<10	266.38	1254.61	<10	<10	<10	<10	<10	<10	<10
1.00	199-201	WS205	8											
1.50	202-204	WS205	9	<10	<10	<10	178.38	<10	<10	<10	<10	<10	<10	<10
2.00	97-99	WS215	10	<10	<10	96.66	123.25	<10	<10	<10	<10	<10	<10	<10
2.00	124-126	WS214	11											
2.00	175-177	WS204	12											
2.50	58-60	BH101	13	<10	<10	80.40	277.20	<10	<10	<10	<10	<10	<10	<10
2.50	85-87	BH102	14	<10	<10	190.64	338.77	<10	<10	<10	<10	<10	<10	<10
2.50	205-207	WS205	15											
3.00	178-180	WS204	16	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.50	208-210	WS205	17	<10	<10	5387.29	49228.14	<10	<10	<10	<10	<10	<10	<10
4.00	130-132	WS214	18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.00	181-183	WS204	19											
5.00	184-186	WS204	20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5.00	214-216	WS205	21											
6.00	136-138	WS214	22											
6.00	217-219	WS205	23	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
7.00	112-114	WS215	24											
7.00	190-192	WS204	25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8.00	67-69	BH101	26											
8.00	223-225	WS205	27											
11.80	73-75	BH101	28	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SGV commercial (SOM 6%)														
CL:AIRE GAC commercial (SOM 1%)											22000			
CL:AIRE GAC commercial (SOM 2.5%)											53000			
CL:AIRE GAC commercial (SOM 6%)											120000			
S4UL commercial (SOM 1%)								110000						
S4UL commercial (SOM 2.5%)								120000						
S4UL commercial (SOM 6%)								120000						

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Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	Arsenic	Water Soluble Boron	Cadmium	Chromium VI	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Zinc
Method Detection Limit				<0.5mg/kg	<1mg/kg	<0.1mg/kg	<0.3mg/kg	<0.5mg/kg	<1mg/kg	<5 mg/kg	<0.1mg/kg	<0.5mg/kg	<1mg/kg	<5mg/kg
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
0.50	22-24	WS201	1											
0.50	49-51	BH101	2	5.00	<1	<0.1	<0.3	33.60	19.00	8.00	<0.1	67.80	<1	59.00
0.50	76-78	BH102	3	5.80	<1	<0.1	<0.3	41.20	26.00	7.00	<0.1	66.20	1.00	50.00
0.50	91-93	WS215	4	5.40	<1	0.20	<0.3	58.70	40.00	21.00	<0.1	69.10	<1	88.00
0.50	118-120	WS214	5	6.50	<1	<0.1	<0.3	38.80	87.00	<5	<0.1	62.10	1.00	43.00
0.50	169-171	WS204	6	5.00	<1	<0.1	<0.3	43.80	15.00	18.00	<0.1	68.00	1.00	72.00
0.50	226-228	WS202	7	3.20	<1	<0.1		36.30	2.00	6.00	<0.1	70.40	1.00	71.00
0.50	253-255	WS203	8											
0.50	280-282	TP300	9											
0.50	289-291	TP301	10											
0.50	304-306	TP302	11											
0.50	316-318	TP303	12											
0.50	328-330	TP304	13	8.90	<1	<0.1	<0.3	46.10	65.00	169.00	1.30	62.60	<1	119.00
0.50	352-354	TP306	14											
0.50	391-393	BH104	15											
0.50	427-429	BH100	16											
0.50	562-564	WS209	17											
0.50	699-701	WS210	18	8.80	<1	<0.1	<0.3	55.30	62.00	9.00	<0.1	61.70	<1	64.00
0.50	726-728	WS211	19	12.60	<1	<0.1	<0.3	45.00	73.00	11.00	<0.1	64.50	<1	64.00
0.60	1-3	WS200	20											
1.00	4-6	WS200	21	12.10	3.00	0.30	<0.3	42.70	47.00	156.00	0.80	53.50	1.00	116.00
1.00	25-27	WS201	22	4.40	2.00	<0.1	<0.3	51.10	34.00	16.00	0.10	61.50	<1	70.00
1.00	172-174	WS204	23											
1.00	199-201	WS205	24	6.10	<1	<0.1	<0.3	39.80	87.00	<5	<0.1	65.90	1.00	52.00
1.00	229-231	WS202	25	5.80	2.00	<0.1	<0.3	42.00	14.00	109.00	0.50	60.70	1.00	55.00
1.00	256-258	WS203	26	2.10	<1	<0.1	<0.3	37.50	<1	<5	<0.1	63.30	<1	45.00
1.00	283-285	TP300	27	6.20	2.00	<0.1	<0.3	43.30	49.00	69.00	0.30	65.20	1.00	88.00
1.00	292-294	TP301	28	3.30	4.00	<0.1	<0.3	43.90	39.00	23.00	0.10	67.20	1.00	64.00
1.00	307-309	TP302	29	7.60	3.00	0.20	<0.3	35.80	43.00	95.00	0.40	58.00	<1	127.00
1.00	319-321	TP303	30	7.60	1.00	<0.1	<0.3	54.90	43.00	16.00	<0.1	64.20	<1	61.00
1.00	331-333	TP304	31											
1.00	355-357	TP306	32	4.80	2.00	<0.1	<0.3	41.30	40.00	47.00	0.30	68.50	<1	83.00
1.00	367-369	WS206	33											
1.00	394-396	BH104	34	6.20	<1	<0.1	<0.3	68.40	56.00	8.00	<0.1	63.60	<1	62.00
1.00	451-453	BH105	35											
1.00	490-492	WS212	36	6.90	2.00	<0.1	<0.3	47.50	40.00	31.00	<0.1	62.70	<1	79.00
1.00	517-519	WS213	37	4.80	<1	<0.1	<0.3	33.10	31.00	7.00	<0.1	59.60	<1	57.00
1.00	544-546	WS208	38	21.70	2.00	0.20	<0.3	51.60	81.00	30.00	<0.1	92.10	1.00	123.00
1.00	565-567	WS209	39	5.10	2.00	<0.1	<0.3	53.30	37.00	8.00	<0.1	63.60	<1	73.00
1.00	592-594	WS216	40	10.20	3.00	<0.1	<0.3	48.00	41.00	35.00	0.20	77.50	<1	90.00
1.10	148-150	BH103	41	6.90	2.00	<0.1	<0.3	39.00	33.00	76.00	0.20	62.50	1.00	93.00
1.10	343-345	TP305	42											
1.40	430-432	BH100	43	6.50	2.00	<0.1	<0.3	49.20	34.00	15.00	<0.1	53.40	<1	63.00
1.50	202-204	WS205	44											
1.60	397-399	BH104	45											
1.60	466-468	WS207	46	16.70	<1	5.10	<0.3	30.30	91.00	57.00	<0.1	65.70	1.00	830.00
1.80	151-153	BH103	47	19.70	<1	<0.1	<0.3	35.70	30.00	13.00	0.60	64.70	2.00	59.00
2.00	97-99	WS215	48	6.40	2.00	0.20	<0.3	40.90	36.00	69.00	0.40	50.10	<1	94.00
2.00	124-126	WS214	49	1.10	2.00	<0.1	<0.3	64.80	70.00	42.00	0.40	152.60	1.00	84.00
2.00	175-177	WS204	50	6.80	3.00	<0.1	<0.3	32.80	48.00	86.00	0.40	62.40	1.00	106.00
2.00	259-261	WS203	51											
2.00	286-288	TP300	52	9.70	2.00	<0.1	<0.3	37.60	52.00	125.00	1.00	65.90	1.00	125.00
2.00	310-312	TP302	53											
2.00	346-348	TP305	54	8.80	3.00	<0.1	<0.3	34.20	49.00	56.00	0.60	63.40	<1	91.00
2.00	358-360	TP306	55	5.80	1.00	<0.1	<0.3	37.00	71.00	104.00	0.20	62.80	1.00	293.00
2.00	370-372	WS206	56	2.70	3.00	<0.1	<0.3	43.90	33.00	21.00	0.10	63.90	1.00	66.00
2.00	454-456	BH105	57	43.00	3.00	<0.1	<0.3	51.90	37.00	<5	<0.1	57.70	<1	69.00
2.00	493-495	WS212	58	6.10	1.00	<0.1	<0.3	56.10	39.00	13.00	<0.1	61.90	<1	87.00
2.00	520-522	WS213	59	7.50	1.00	<0.1	<0.3	37.90	39.00	76.00	0.20	51.10	1.00	84.00
2.00	547-549	WS208	60											
2.00	568-570	WS209	61	7.00	4.00	<0.1	<0.3	58.90	40.00	6.00	<0.1	69.00	<1	79.00
2.00	595-597	WS216	62											
2.00	732-734	WS211	63	5.30	1.00	<0.1	<0.3	52.80	102.00	44.00	<0.1	67.90	<1	102.00
2.50	58-60	BH101	64	7.60	1.00	0.20	<0.3	38.20	42.00	54.00	0.10	58.20	1.00	84.00
2.50	85-87	BH102	65	7.90	3.00	0.20	<0.3	47.30	39.00	67.00	0.30	59.90	<1	88.00
2.50	154-156	BH103	66											
2.50	205-207	WS205	67	5.60	2.00	<0.1	<0.3	38.50	10.00	132.00	0.30	52.00	<1	96.00
2.50	400-402	BH104	68											
2.50	433-435	BH100	69											
3.00	10-12	WS200	70	5.30	2.00	0.10	<0.3	45.30	47.00	61.00	0.20	82.00	<1	91.00
3.00	31-33	WS201	71	3.70	2.00	0.10	<0.3	51.10	29.00	6.00	0.10	59.40	1.00	69.00
3.00	178-180	WS204	72											
3.00	235-237	WS202	73	1.10	<1	<0.1	<0.3	28.30	<1	19.00	<0.1	28.90	<1	35.00
3.00	262-264	WS203	74	25.70	2.00	0.30	<0.3	45.00	93.00	82.00	0.60	95.10	<1	171.00
3.00	298-300	TP301	75	2.20	4.00	<0.1	<0.3	47.40	36.00	19.00	0.10	67.50	1.00	68.00
3.00	313-315	TP302	76	3.30	1.00	<0.1	<0.3	49.80	90.00	85.00	0.50	124.40	<1	147.00
3.00	325-327	TP303	77	7.70	2.00	<0.1	<0.3	46.20	68.00	80.00	0.10	58.10	<1	96.00
3.00	337-339	TP304	78											
3.00	349-351	TP305	79											
3.00	361-363	TP306	80	1.70	3.00	<0.1	<0.3	45.00	34.00	18.00	0.10	66.60	1.00	66.00
3.00	373-375	WS206	81											
3.00	457-459	BH105	82											
3.00	550-552	WS208	83	6.50	3.00	<0.1	<0.3	49.70	36.00	6.00	<0.1	59.30	<1	69.00
3.00	598-600	WS216	84	5.90	3.00	<0.1	<0.3	52.80	39.00	35.00	<0.1	65.90	<1	72.00
3.20	403-405	BH104	85	5.90	2.00	<0.1	<0.3	45.30	42.00	13.00	<0.1	60.90	<1	64.00
3.50	208-210	WS205	86											
3.50	439-441	BH100	87	4.40	5.00	<0.1	<0.3	42.40	20.00	13.00	<0.1	37.60	<1	49.00
4.00	103-105	WS215	88	7.70	3.00	0.70	<0.3	42.70	177.00	348.00	0.50	67.40	<1	221.00
4.00	130-132	WS214	89	3.30	3.00	<0.1	<0.3	58.00	29.00	6.00	<0.1	65.80	<1	79.00
4.00	181-183	WS204	90	2.90	3.00	<0.1	<0.3	31.30	4.00	60.00	0.20	48.00	<1	58.00
4.00	265-267	WS203	91				<0.3							
4.00	376-378	WS206	92											
4.00	418-420	TP305	93	5.20	3.00	<0.1	<0.3	60.90	41.00	7.00	<0.1	65.70	<1	75.00
4.00	460-462	BH105	94	3.90	3.00	<0.1	<0.3	49.60	37.00	5.00	<0.1	58.00	<1	71.00
4.00	475-477	WS207	95	4.30	3.00	<0.1	<0.3	51.50	37.00	6.00	<0.1	59.00	<1	71.00
4.00	526-528	WS213	96											
4.00	601-603	WS216	97											
4.00	711-713	WS210	98	5.30	3.00	<0.1	<0.3	60.30	39.00	6.00	<0.1	57.40	<1	75.00
4.20	415-417	TP304	99	7.70	3.00	<0.1	<0.3	61.70	39.00	13.00	<0.1	66.10	<1	78.00
4.50	442-444	BH100	100											
4.60	160-162	BH103	101	6.40	2.00	<0.1	<0.3	32.70	192.00	41.00	0.20	64.70	<1	69.00
5.00	16-18	WS200	102	2.10	2.00	<0.1	<0.3	57.80	30.00	<5	<0.1	65.00	<1	74.00
5.00	184-186	WS204	103											
5.00	214-216	WS205	104	2.00	4.00	<0.1	<0.3	52.10	7.00	5.00	0.10	62.30	1.00	73.00
5.00	268-270	WS203	105	1.70	5.00	<0.1	<0.3	52.20	6.00	6.00	0.10	64.80	1.00	88.00
5.00	379-381	WS206	106	2.40	6.00	<0.1	<0.3	45.10	33.00	17.00	0.10	66.50	1.00	65.00
5.00	409-411	BH104	107											
5.00	463-465	BH105	108											
5.00	502-504	WS212	109											
5.00	577-579	WS209	110	4.90	3.00	<0.1	<0.3	56.10	39.00	8.00	<0.1	66.40	<1	80.00
5.50	163-165	BH103	111											
6.00	19-21	WS200	112	1.90	<1	<0.1	<0.3	49.40	33.00	<5	0.10	56.30	<1	68.00
6.00	40-42	WS201	113	3.50	3.00	<0.1	<0.3	60.30	35.00	<5	0.10	66.80	<1	79.00
6.00	136-138	WS214	114	3.50	3.00	<0.1	<0.3	52.80	29.00	<5	<0.1	63.00	<1	73.00
6.00	217-219	WS205	115											
6.00	244-246	WS202	116	1.50	3.00	<0.1	<0.3	51.30	5.00	6.00	0.10	63.70	1.00	74.00
6.00	382-384	WS206	117											
6.00	607-609	WS216	118											
6.00	744-746	WS211	119	5.90	2.00	<0.1	<0.3	64.80	47.00	8.00	<0.1	61.90	<1	82.00
6.90	636-638	WS208	120	3.80	<1	<0.1	<0.3	43.90	34.00	<5	<0.1	56.90	<1	54.00
7.00	112-114	WS215	121	8.20	3.00	0.90	<0.3	41.40	396.00	520.00	2.50	83.00	<1	331.00
7.00	190-192	WS204	122	2.40	3.00	<0.1	<0.3	52.30	7.00	7.00	<0.1	62.30	1.00	72.00
7.00	508-510	WS212	123	4.90	3.00	<0.1	<0.3	55.00	39.00	7.00	0.10	63.70	<1	76.00
7.00	535-537	WS213	124	4.60	3.00	<0.1	<0.3	58.60	41.00	7.00	<0.1	68.40	<1	81.00
7.00	610-612	WS216	125	6.30	2.00	<0.1	<0.3	54.90	38.00	8.00	0.10	64.10	<1	77.00
7.00	720-722	WS210	126	5.10	2.00	<0.1	<0.3	57.30	39.00	6.00	<0.1	55.00	<1	73.00
8.00	67-69	BH101	127	3.70	2.00	<0.1	<0.3	50.00	28.00	<5	0.10	60.30	<1	68.00
8.00	223-225	WS205	128	2.90	3.00	<0.1	<0.3	49.90	5.00	6.00	<0.1	62.20	1.00	71.00
8.00	250-252	WS202	129	1.60	5.00	<0.1	<0.3	51.50	4.00	5.00	0.10	63.60	1.00	72.00
8.00	511-513	WS212	130	5.10	2.00	<0.1	<0.3	58.30	42.00	7.00	0.10	68.00	<1	81.00
8.00	613-615	WS216	131											
8.00	632	BH104	132											
8.50	626-628	BH100	133	2.50	<1	<0.1	<0.3	34.50	8.00	8.00	<0.1	28.40	<1	37.00
9.00	633-635	BH105	134	1.10	<1	<0.1	<0.3	26.80	4.00	<5	<0.1	14.20	<1	17.00
10.00	629-631	BH100	135	3.40	<1	<0.1	<0.3	47.60	11.00	11.00	<0.1	48.00	<1	59.00
10.10	166-168	BH103	136	<0.5	<1	<0.1	<0.3	24.20	14.00	<5	<0.1	56.40	1.00	41.00
11.80	73-75	BH101	137	1.10	<1	<0.1	<0.3	18.70	10.00	<5	<0.1	21.20	<1	23.00
SGV commercial (SOM 6%)				640		230					26		13000	
CL:AIRE GAC commercial (SOM 1%)														
CL:AIRE GAC commercial (SOM 2.5%)														
CL:AIRE GAC commercial (SOM 6%)														
S4UL commercial (SOM 1%)														
S4UL commercial (SOM 2.5%)														
S4UL commercial (SOM 6%)				640	240000	190	33	8600 (CrIII)	68000		58	980	12000	730000

METALS

Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	pH	Free Cyanide	Total Cyanide	Total Phenols	Total Sulphate**	Sulphide	Total Sulphur	Thiocyanate	FOC	TOC	SOM
Method Detection Limit				<0.01	<1mg/kg	<1mg/kg	<0.01mg/kg	<100 mg/kg	<15mg/kg	<0.01%	<1mg/kg			
				pH Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	mg/kg		%	%
0.50	22-24	WS201	1											
0.50	49-51	BH101	2	8.46	<1	<1	<0.01	395.00	<15	0.12	<1	<0.002	<0.2	<0.2
0.50	76-78	BH102	3	8.70	<1	<1	<0.01	348.00	<15	0.03	<1	<0.002	<0.2	<0.2
0.50	91-93	WS215	4	8.64	<1	<1	<0.01	423.00	<15	0.19	<1	0.01	0.60	1.04
0.50	118-120	WS214	5	8.82	<1	<1	<0.01	371.00	<15	0.11	<1	<0.002	<0.2	<0.2
0.50	169-171	WS204	6	8.44	<1	<1	<0.01	667.00	<15	0.19	<1	0.01	0.60	1.05
0.50	226-228	WS202	7		<1	<1		202.00	<15	<0.01	<1	<0.002	0.25	0.43
0.50	253-255	WS203	8											
0.50	280-282	TP300	9											
0.50	289-291	TP301	10											
0.50	304-306	TP302	11											
0.50	316-318	TP303	12											
0.50	328-330	TP304	13	8.47	<1	1.00	<0.01	1414.00	56.00	0.05	3.00	<0.002	<0.2	<0.2
0.50	352-354	TP306	14											
0.50	391-393	BH104	15											
0.50	427-429	BH100	16											
0.50	562-564	WS209	17											
0.50	699-701	WS210	18	8.12	<0.1	0.40	<0.01	2187.00	54.00	0.10	<0.6	0.00	0.21	0.36
0.50	726-728	WS211	19	8.04	<0.1	0.60	<0.01	970.00	49.00	0.20	<0.6	0.00	0.21	0.36
0.60	1-3	WS200	20											
1.00	4-6	WS200	21	7.61	<1	60.00	<0.01	7537.00	59.00	0.25	1.00	0.06	5.60	9.74
1.00	25-27	WS201	22	8.08	<1	2.00	<0.01	856.00	<15	<0.01	<1	0.01	0.80	1.39
1.00	172-174	WS204	23											
1.00	199-201	WS205	24	8.51	<1	<1	<0.01	380.00	<15	0.05	<1	<0.002	0.27	0.46
1.00	229-231	WS202	25	8.16	<1	23.00	<0.01	941.70	<15	0.11	<1	0.03	3.47	6.04
1.00	256-258	WS203	26	8.86	<1	<1	<0.01	131.00	<15	<0.01	<1	<0.002	0.25	0.43
1.00	283-285	TP300	27	7.91	0.80	12.00	<0.01	2146.00	72.00	0.04	6.80	0.04	3.79	6.59
1.00	292-294	TP301	28	8.47	<1	8.00	<0.01	910.00	44.00	0.01	4.30	0.00	0.46	0.80
1.00	307-309	TP302	29	7.97	2.00	44.00	<0.01	2749.00	96.00	0.13	7.00	0.03	3.39	5.90
1.00	319-321	TP303	30	8.14	<1	1.00	<0.01	722.00	60.00	0.01	3.00	0.00	0.20	0.35
1.00	331-333	TP304	31											
1.00	355-357	TP306	32	8.68	<1	3.00	<0.01	750.00	32.00	0.01	3.00	0.01	1.02	1.77
1.00	367-369	WS206	33											
1.00	394-396	BH104	34	8.15	<1	5.00	<0.01	481.00	24.00	0.01	<1	0.00	0.20	0.35
1.00	451-453	BH105	35											
1.00	490-492	WS212	36		<1	1.00	<0.01	2755.00	29.00	0.06	5.00	0.01	0.82	1.43
1.00	517-519	WS213	37		<1	<1	<0.01	490.00	17.00	0.07	<1	<0.002	0.16	0.28
1.00	544-546	WS208	38	7.89	<1	<1	<0.01	804.00	34.00	0.03	1.00	0.03	2.93	5.10
1.00	565-567	WS209	39	9.43	<1	<1	<0.01	516.00	21.00	<0.01	<1	0.00	0.31	0.54
1.00	592-594	WS216	40		<1	6.00	<0.01	2882.00	38.00	0.04	2.00	0.01	1.43	2.49
1.10	148-150	BH103	41	8.03	<1	10.00	<0.01	1957.00	18.00	0.11	<1	0.05	4.76	8.28
1.10	343-345	TP305	42											
1.40	430-432	BH100	43	7.63	<1	<1	<0.01	880.00	17.00	<0.01	<1	0.01	0.75	1.31
1.50	202-204	WS205	44											
1.60	397-399	BH104	45											
1.60	466-468	WS207	46	9.43	,1	<1	0.29	2057.00	22.00	<0.01	<1	0.15	14.80	25.75
1.80	151-153	BH103	47	8.67	<1	<1	<0.01	472.00	<15	0.56	<1	0.01	0.58	1.00
2.00	97-99	WS215	48	7.98	<1	13.00	<0.01	2897.00	<15	0.11	<1	0.03	2.70	4.70
2.00	124-126	WS214	49	10.21	<1	1.00	<0.01	1822.00	22.00	0.08	68.00	0.01	1.10	1.91
2.00	175-177	WS204	50	8.29	<1	11.00	<0.01	1008.00	85.00	0.15	<1	0.03	3.47	6.03
2.00	259-261	WS203	51											
2.00	286-288	TP300	52	7.41	2.60	82.00	0.05	3746.00	80.00	0.16	12.00	0.05	5.16	8.98
2.00	310-312	TP302	53											
2.00	346-348	TP305	54	9.47	<1	15.00	0.65	2233.00	76.00	0.04	8.00	0.02	1.85	3.22
2.00	358-360	TP306	55	4.06	<1	2.00	<0.01	712.00	20.00	0.05	1.00	0.02	1.71	2.98
2.00	370-372	WS206	56	9.17	<1	<1	<0.01	640.00	32.00	<0.01	2.00	0.00	0.40	0.70
2.00	454-456	BH105	57	8.28	<1	<1	<0.01	441.00	21.00	<0.01	<1	0.00	0.21	0.37
2.00	493-495	WS212	58		<1	<1	<0.01	1017.00	25.00	<0.01	<1	0.00	0.44	0.77
2.00	520-522	WS213	59		1.00	14.00	<0.01	2324.00	34.00	0.03	2.00	0.04	4.35	7.57
2.00	547-549	WS208	60											
2.00	568-570	WS209	61	8.25	<1	<1	<0.01	452.00	29.00	<0.01	<1	0.00	0.25	0.44
2.00	595-597	WS216	62											
2.00	732-734	WS211	63	8.44	<0.1	0.50	<0.01	419.00	49.00	0.02	<0.6	0.01	0.92	1.61
2.50	58-60	BH101	64	8.24	<1	3.00	<0.01	757.00	<15	0.07	<1	0.03	2.80	4.87
2.50	85-87	BH102	65	8.12	<1	17.00	<0.01	3253.00	<15	0.06	<1	0.04	4.30	7.48
2.50	154-156	BH103	66											
2.50	205-207	WS205	67	7.96	<1	13.00	<0.01	2590.00	25.00	0.13	<1	0.05	4.57	7.94
2.50	400-402	BH104	68											
2.50	433-435	BH100	69											
3.00	10-12	WS200	70	7.94	<1	7.00	<0.01	1299.00	20.00	0.05	<1	0.02	2.30	4.00
3.00	31-33	WS201	71	8.29	<1	<1	<0.01	1126.00	<15	0.07	<1	0.00	0.20	0.35
3.00	178-180	WS204	72											
3.00	235-237	WS202	73	8.32	<1	1.00	<0.01	532.30	<15	0.05	<1	<0.002	0.25	0.43
3.00	262-264	WS203	74	8.13	<1	<1	<0.01	759.10	570.00	0.24	<1	0.04	4.46	7.76
3.00	298-300	TP301	75	8.66	<1	0.80	<0.01	622.00	40.00	<0.01	3.50	<0.002	0.17	0.30
3.00	313-315	TP302	76	8.30	<1	2.00	<0.01	287.00	110.00	0.05	5.00	0.01	1.17	2.04
3.00	325-327	TP303	77	7.41	1.00	16.00	<0.01	1129.00	92.00	0.08	8.00	0.04	3.76	6.54
3.00	337-339	TP304	78											
3.00	349-351	TP305	79											
3.00	361-363	TP306	80	9.03	<1	1.00	<0.01	420.00	28.00	<0.01	<1	0.00	0.18	0.31
3.00	373-375	WS206	81											
3.00	457-459	BH105	82											
3.00	550-552	WS208	83	8.79	<1	<1	<0.01	444.00	29.00	<0.01	<1	0.00	0.22	0.38
3.00	598-600	WS216	84	~	<1	<1	<0.01	1040.00	25.00	<0.

Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	Asbestos	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)+Benzo(k) fluoranthene	Benzo(a)pyrene	Indeno(123-cd)pyrene	Dibenzo(ah)anthracene	Benzo(ghi)perylene	Total 16 EPA PAHs	PCB Congener 28	PCB Congener 52	PCB Congener 101	PCB Congener 118	PCB Congener 153
Method Detection Limit					<0.03 mg/kg	<0.02 mg/kg	<0.02 mg/kg	<0.02 mg/kg	<0.02 mg/kg	<0.02 mg/kg	<0.02 mg/kg	<0.03 mg/kg	<0.02 mg/kg	<0.04 mg/kg	<0.04 mg/kg	<0.02 mg/kg	<0.02 mg/kg	<0.02 mg/kg	<0.04 mg/kg	<0.38 mg/kg	<5ug/kg	<5ug/kg	<5ug/kg	<5ug/kg	<5ug/kg
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
0.50	22-24	WS201	1																		<5	<5	<5	<5	<5
0.50	49-51	BH101	2	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
0.50	76-78	BH102	3	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
0.50	91-93	WS215	4	NFD	<0.03	0.12	0.03	0.03	0.20	0.10	0.30	0.28	0.32	0.27	0.49	0.32	0.20	0.06	0.22	2.96					
0.50	118-120	WS214	5	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
0.50	169-171	WS204	6	NFD	<0.03	0.31	0.06	0.11	0.71	0.39	1.21	1.10	0.79	0.61	1.05	0.68	0.41	0.13	0.34	7.90					
0.50	226-228	WS202	7	NFD																	<5	<5	<5	<5	<5
0.50	253-255	WS203	8																		<5	<5	<5	<5	<5
0.50	280-282	TP300	9																		<5	<5	<5	<5	<5
0.50	289-291	TP301	10																						
0.50	304-306	TP302	11																						
0.50	316-318	TP303	12																		<5	<5	<5	<5	<5
0.50	328-330	TP304	13	NFD	<0.03	<0.02	<0.02	<0.02	0.03	0.02	0.03	0.03	0.05	<0.04	0.04	0.03	0.03	<0.02	<0.04	<0.38					
0.50	352-354	TP306	14																						
0.50	391-393	BH104	15																						
0.50	427-429	BH100	16																						
0.50	562-564	WS209	17																		<5	<5	<5	<5	<5
0.50	699-701	WS210	18	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
0.50	726-728	WS211	19	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
0.60	1-3	WS200	20																		<5	<5	<5	<5	<5
1.00	4-6	WS200	21	NFD	7.35	9.49	2.90	8.24	26.69	13.39	28.26	28.86	12.11	12.99	19.65	12.71	7.05	3.24	6.88	199.83					
1.00	25-27	WS201	22	NFD	<0.03	0.05	<0.02	<0.02	0.13	0.08	0.17	0.14	0.19	0.14	0.26	0.18	0.09	0.04	0.10	1.56					
1.00	172-174	WS204	23																						
1.00	199-201	WS205	24	NFD	<0.03	<0.02	<0.02	<0.02	0.06	0.03	0.06	0.05	0.06	0.06	0.09	0.05	0.04	<0.02	<0.04	0.52					
1.00	229-231	WS202	25	NFD	1.38	3.47	1.38	3.41	9.45	4.73	9.93	9.42	5.21	4.43	5.97	4.13	1.94	0.58	2.26	67.70					
1.00	256-258	WS203	26	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
1.00	283-285	TP300	27	NFD	44.15	10.04	6.34	12.12	34.00	11.14	21.54	17.63	11.03	8.43	11.56	8.28	5.01	1.31	4.65	207.25					
1.00	292-294	TP301	28	NFD	<0.03	0.04	<0.02	<0.02	0.06	0.04	0.05	0.05	0.07	0.05	0.06	0.04	0.04	<0.02	<0.04	0.49					
1.00	307-309	TP302	29	Chrysotile	4.46	4.26	2.67	5.70	18.90	8.47	14.46	15.68	12.83	7.36	10.96	9.07	5.72	<0.02	5.26	125.82					
1.00	319-321	TP303	30	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
1.00	331-333	TP304	31																		<5	<5	<5	<5	<5
1.00	355-357	TP306	32	NFD	<0.03	0.27	0.14	0.22	0.83	0.39	1.03	0.98	0.66	0.61	0.98	0.70	0.50	0.16	0.44	7.93					
1.00	367-369	WS206	33																						
1.00	394-396	BH104	34	NFD	<0.03	<0.02	0.05	0.05	0.28	0.09	0.28	0.22	0.14	0.13	0.15	0.09	0.07	<0.02	0.06	1.61					
1.00	451-453	BH105	35																						
1.00	490-492	WS212	36	NFD	0.61	0.59	0.49	0.59	7.28	1.90	7.51	6.47	3.32	3.12	3.50	2.26	1.36	0.43	1.49	40.90					
1.00	517-519	WS213	37	NFD	<0.03	<0.02	<0.02	<0.02	0.06	0.02	0.04	0.04	0.04	<0.04	<0.04	0.02	<0.02	<0.02	<0.04	<0.38					
1.00	544-546	WS208	38	NFD	0.65	0.04	0.26	0.06	0.10	0.05	0.09	0.08	0.08	0.06	0.08	0.05	0.04	<0.02	0.04	1.66					
1.00	565-567	WS209	39	NFD	<0.03	<0.02	0.25	0.14	0.34	0.10	0.10	0.06	0.05	<0.04	0.04	0.03	0.00	<0.02	<0.04	1.14					
1.00	592-594	WS216	40	NFD	0.97	1.89	0.90	1.35	6.48	2.73	7.90	8.20	4.41	3.32	4.84	3.29	1.98	0.61	2.25	51.14					
1.10	148-150	BH103	41	NFD	0.45	0.73	0.27	0.49	1.77	0.83	2.05	1.90	1.30	1.17	1.76	1.26	0.65	0.15	0.62	15.41					
1.10	343-345	TP305	42																						
1.40	430-432	BH100	43	NFD	<0.03	0.04	0.15	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
1.50	202-204	WS205	44																						
1.60	397-399	BH104	45																						
1.60	466-468	WS207	46	NFD	9927.28	117.65	681.21	891.68	582.85	665.86	718.59	707.91	234.16	63.10	512.91	1081.95	718.17	203.28	752.95	17859.53					
1.80	151-153	BH103	47	NFD	0.40	0.24	0.35	0.24	0.97	0.43	1.04	0.87	0.43	0.35	0.64	0.41	0.28	0.08	0.25	6.97					
2.00	97-99	WS215	48	NFD	<0.03	1.22	0.35	0.53	2.60	1.20	3.56	3.24	2.05	1.85	2.82	1.89	1.15	0.29	1.16	23.90					
2.00	124-126	WS214	49	NFD	<0.03	0.34	0.40	0.52	3.70	1.28	3.68	2.86	1.24	1.59	2.26	1.50	0.88	0.20	0.89	21.34					
2.00	175-177	WS204	50	NFD	<0.03	0.54	0.19	0.27	0.98	0.56	1.69	1.65	1.21	0.95	1.67	1.20	0.72	0.17	0.61	12.41					
2.00	259-261	WS203	51																						
2.00	286-288	TP300	52	Chrysotile	6.35	10.64	3.35	8.26	24.59	9.70	15.56	15.95	8.11	5.88	8.93	7.15	3.82	1.26	3.31	132.86					
2.00	310-312	TP302	53																		<5	<5	<5	<5	<5
2.00	346-348	TP305	54	Chrysotile	5.30	0.94	2.44	2.20	6.14	2.32	4.34	3.41	2.01	1.93	2.52	1.68	0.98	0.21	0.93	37.34					
2.00	358-360	TP306	55	NFD	<0.03	0.02	<0.02	<0.02	0.12	0.06	0.18	0.17	0.13	0.12	0.18	0.12	0.08	<0.02	0.07	1.26					
2.00	370-372	WS206	56	NFD	<0.03	0.12	0.07	0.09	0.33	0.16	0.36	0.40	0.16	0.19	0.22	0.15	0.09	0.04	0.07	2.45					
2.00	454-456	BH105	57	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
2.00	493-495	WS212	58	NFD	<0.03	<0.02	<0.02	<0.02	0.08	0.03	0.09	0.09	0.09	0.07	0.09	0.07	0.04	<0.02	0.04	0.69					
2.00	520-522	WS213	59	NFD																					
2.00	547-549	WS208	60																						
2.00	568-570	WS209	61	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
2.00	595-597	WS216	62																						
2.00	732-734	WS211	63	NFD	<0.03	<0.02	<0.02	<0.02	0.13	0.06	0.24	0.24	0.18	0.24	0.30	0.16	0.10	<0.02	0.10	1.74					
2.50	58-60	BH101	64	NFD	0.94	1.73	0.53	0.90	2.15	1.49	2.81	3.50	1.87	1.50	2.48	1.90	1.13	0.19	0.97	24.08					
2.50	85-87	BH102	65	NFD	2.16	2.28	0.64	1.61	6.40	4.26	9.29	8.09	6.13	5.44	7.68	5.00	2.36	0.84	2.41	64.59					
2.50	154-156	BH103	66																						
2.50	205-207	WS205	67	NFD	<0.03	0.59	0.17	0.30	1.25	0.73	1.87	1.86	1.21	1.25	1.93	1.36	0.69	0.22	0.74	14.16					
2.50	400-402	BH104	68																						
2.50	433-435	BH100	69																						
3.00	10-12	WS200	70	NFD	2.94	2.35	1.40	3.48	42.84	10.31	45.48	38.77	13.45	14.19	21.58	15.52	10.80	1.46	11.49	236.06					
3.00	31-33	WS201	71	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
3.00	178-180	WS204	72																						
3.00	235-237	WS202	73	NFD	<0.03	<0.02	<0.02	<0.02	0.05	0.02	0.05	0.05	0.08	0.08	0.11	0.08	0.05	0.04	0.06	0.66					
3.00	262-264	WS203	74	NFD	<0.03	<0.02	<0.02	<0.02	0.15	0.06	0.16	0.15	0.14	0.17	0.21	0.14	0.09	0.04	0.11	1.40					
3.00	298-300	TP301	75	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
3.00	313-315	TP302	76	NFD	<0.03	<0.02	0.06	0.07	0.30	0.08	0.22	0.19	0.16	0.12	0.15	0.08	0.06	<0.02	0.07	1.57					
3.00	325-327	TP303	77	NFD	8.35	3.14	3.36	4.48	10.79	4.41	7.29	5.53	3.80	2.82	3.81	2.69	1.54	<0.02	1.42	63.42					
3.00	337-339	TP304	78																						
3.00	349-351	TP305	79																						
3.00	361-363	TP306	80	NFD	<0.03	<0.02	0.13	0.07	0.13	0.04	0.00	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
3.00	373-375	WS206	81																						
3.00	457-459	BH105	82																						
3.00	550-552	WS208	83	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
3.00	598-600	WS216	84	NFD	<0.03	0.22	0.08	0.16	0.77	0.31	0.90	0.83	0.52	0.38	0.52	0.35	0.23	0.07	0.21	5.55					
3.20	403-405	BH104	85	NFD	<0.03	0.03	0.03	0.03	0.12	0.06	0.09	0.07	0.08	0.05	0.06	0.03	0.02	<0.02	<0.04	0.68					
3.50	208-210	WS205	86																						
3.50	439-441	BH100	87	N	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
4.00	103-105	WS215	88	NFD	1.01	0.71	0.91	1.01	7.17	2.88	13.92	10.83	7.34	7.50	9.66	6.00	3.32	0.96	3.42	76.66					
4.00	130-132	WS214	89	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
4.00	181-183	WS204	90	NFD	<0.03	0.09	0.00	0.03	0.11	0.10	0.29	0.25	0.40	0.53	0.67	0.43	0.23	0.13	0.21	3.46					
4.00	265-267	WS203	91																						
4.00	376-378	WS206	92																						
4.00	418-420	TP305	93	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
4.00	460-462	BH105	94	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
4.00	475-477	WS207	95	NFD	<0.03	0.02	<0.02	<0.02	0.11	0.04	0.06	0.05	0.05	0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
4.00	526-528	WS213	96																						
4.00	601-603	WS216	97																						
4.00	711-713	WS210	98	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
4.20	415-417	TP304	99	NFD	2.71	0.09	0.21	0.12	0.24	0.12	0.23	0.21	0.21	0.16	0.25	0.13	0.13	0.05	0.09	4.96					
4.50	442-444	BH100	100																		<5	<5	<5	<5	<5
4.60	160-162	BH103	101	NFD	83.61	3.83	25.22	25.62	131.65	38.05	94.15	66.64	25.25	30.03	40.38	32.16	33.04	40.76	13.87	684.26					
5.00	16-18	WS200	102	NFD	<0.03	<0.02	<0.02	<0.02	0.04	0.00	0.04	0.04	0.10	0.09	0.12	0.10	0.07	0.04	0.06	0.70					
5.00	184-186	WS204	103																						
5.00	214-216	WS205	104	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	0.06	0.05	0.09	0.05	0.06	0.08	0.06	0.45					
5.00	268-270	WS203	105	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
5.00	379-381	WS206	106	NFD	2.99	0.26	0.52	0.52	1.51	0.58	0.82	0.58	0.30	0.20	0.29	0.19	0.11	<0.02	0.10	8.97					
5.00	409-411	BH104	107																						
5.00	463-465	BH105	108																						
5.00	502-504	WS212	109																						
5.00	577-579	WS209	110	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
5.50	163-165	BH103	111																						
6.00	19-21	WS200	112	NFD	<0.03	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	0.06	0.04	0.07	0.05	0.04	<0.02	0.05	<0.38					
6.00	40-42	WS201	113	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
6.00	136-138	WS214	114	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
6.00	217-219	WS205	115																						
6.00	244-246	WS202	116	NFD	<0.03	<0.02	<0.02	<0.02	0.15	0.06	0.16	0.15	0.14	0.17	0.21	0.14	0.09	0.04	0.11	1.40					
6.00	382-384	WS206	117																						
6.00	607-609	WS216	118																						
6.00	744-746	WS211	119	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
6.90	636-638	WS208	120	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
7.00	112-114	WS215	121	NFD	<0.03	0.16	0.05	0.06	0.60	0.30	1.32	1.17	0.79	0.78	1.54	0.87	0.54	0.22	0.53	8.93					
7.00	190-192	WS204	122	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
7.00	508-510	WS212	123	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
7.00	535-537	WS213	124	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
7.00	610-612	WS216	125	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
7.00	720-722	WS210	126	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
8.00	67-69	BH101	127	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
8.00	223-225	WS205	128	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
8.00	250-252	WS202	129	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
8.00	511-513	WS212	130	NFD	<0.03	<0.02	<0.02	<0.02	0.06	0.02	0.02	<0.03	0.04	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
8.00	613-615	WS216	131																						
8.00	632	BH104	132																						
8.50	626-628	BH100	133	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
9.00	633-635	BH105	134	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
10.00	629-631	BH100	135	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
10.10	166-168	BH103	136	NFD	<0.03	0.02	0.04	0.04	0.12	0.04	0.06	0.04	0.08	0.07	0.11	0.06	0.05	0.06	0.04	0.82					
11.80	73-75	BH101	137	NFD	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.04	<0.04	<0.02	<0.02	<0.02	<0.04	<0.38					
SGV commercial (SOM 6%)																									
CL:AIRE GAC commercial (SOM 1%)																									
CL:AIRE GAC commercial (SOM 2.5%)																									
CL:AIRE GAC commercial (SOM 6%)																									
S4UL commercial (SOM 1%)					190	83000	84000	63000	22000	520000	23000	54000	170	350	44	35	500	3.5	3900						
S4UL commercial (SOM 2.5%)					460	97000	97000	68000	22000	540000	23000	54000	170	350	44	35	510	3.6	4000						
S4UL commercial (SOM 6%)					1100	100000	100000	71000	23000	540000	23000	54000	180	350	45	36	510	3.6	4000						

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Made Ground
Fill
Concrete
Boulder Clay
Sand

Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	PCB Congener 138	PCB Congener 180	PCB Total of 7 Congeners	Aliphatics EC C5-C6	Aliphatics EC>C6-C8	Aliphatics EC>C8-C10	Aliphatics EC>C10-C12	Aliphatics EC>C12-C16	Aliphatics EC>C16-C21	Aliphatics EC>C21-C35	Total Aliphatics	Aromatics EC C5-C7	Aromatics EC>C7-C8	Aromatics EC>C8-C10	Aromatics EC>C10-C12	Aromatics EC>C12-C16	Aromatics EC>C16-C21	Aromatics EC>C21-C35	Total Aromatics	TPH	Mineral Oil	MTBE	Benzene
Method Detection Limit				<5ug/kg	<5ug/kg	<35ug/kg	<0.1 mg/kg	<0.1 mg/kg	<0.1 mg/kg	<5 mg/kg	<5 mg/kg	<5 mg/kg	<5 mg/kg	<15 mg/kg	<0.1 mg/kg	<0.1 mg/kg	<0.1 mg/kg	<5mg/kg	<5 mg/kg	<5 mg/kg	<5 mg/kg	<15 mg/kg	<30 mg/kg	<30 mg/kg	<2 ug/kg	<3 ug/kg
				ug/kg	ug/kg	ug/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		ug/kg	ug/kg
0.50	22-24	WS201	1	<5	<5	<35																				
0.50	49-51	BH101	2				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	0.10	0.10	<5	<5	<5	<15	<30	<30	<2	70.00
0.50	76-78	BH102	3				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	4.00
0.50	91-93	WS215	4				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	10.00
0.50	118-120	WS214	5				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	5.00
0.50	169-171	WS204	6																					<30		
0.50	226-228	WS202	7	<5	<5	<35																				
0.50	253-255	WS203	8	<5	<5	<35																				
0.50	280-282	TP300	9	<5	<5	<35																				
0.50	289-291	TP301	10																							
0.50	304-306	TP302	11				<0.1	0.30	1.44	27.00	152.00	215.00	262.00	656.00	<0.1	<0.1	<0.1	14.00	151.00	354.00	911.00	1431.00	2087			
0.50	316-318	TP303	12	<5	<5	<35																				
0.50	328-330	TP304	13				<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30	<30		
0.50	352-354	TP306	14																							
0.50	391-393	BH104	15																							
0.50	427-429	BH100	16																							
0.50	562-564	WS209	17	<5	<5	<35																				
0.50	699-701	WS210	18				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<10	<10
0.50	726-728	WS211	19				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<10	<10
0.60	1-3	WS200	20	<5	<5	<35																				
1.00	4-6	WS200	21				<0.1	<0.1	<0.1	<0.1	92.00	134.00	194.00	420.00	0.40	1.80	3.10	8.70	408.00	1143.00	2245.00	3810.00	4230.00	428.00	<2	750.00
1.00	25-27	WS201	22				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	<3
1.00	172-174	WS204	23				<0.1	0.23	1.07	<0.1	43.00	61.00	89.00	194.00	<0.1	<0.1	0.42	8.80	138.00	394.00	511.00	1052.00	1246.00		<3	71.40
1.00	199-201	WS205	24				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	48.15
1.00	229-231	WS202	25				<0.1	0.12	0.27	<0.1	89.00	170.00	153.00	412.00	<0.1	<0.1	<0.1	1.30	169.00	591.00	912.00	1673.00	2085.00	425.00	<2	<3
1.00	256-258	WS203	26				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30		
1.00	283-285	TP300	27																							
1.00	292-294	TP301	28				<0.1	<0.1	0.29	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30	<30	<2	12.00
1.00	307-309	TP302	29																					668.00		
1.00	319-321	TP303	30				<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30	<30		
1.00	331-333	TP304	31	<5	<5	<35																				
1.00	355-357	TP306	32				<0.1	<0.1	<0.1	<5	30.00	74.00	21.00	126.00	<0.1	<0.1	<0.1	<5	22.00	68.00	73.00	164.00	290	126.00		
1.00	367-369	WS206	33																							
1.00	394-396	BH104	34				<0.1	0.15	1.78	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30	<30	<2	<3
1.00	451-453	BH105	35				<0.1	<0.1	<0.1	5.00	94.00	<5	<5	99.00	<0.1	<0.1	<0.1	<5	42.00	<5	333.00	375.00	474			
1.00	490-492	WS212	36																					<30		
1.00	517-519	WS213	37				<0.1	<0.1	0.2	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30	<30		
1.00	544-546	WS208	38				<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30	<30		
1.00	565-567	WS209	39				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30		
1.00	592-594	WS216	40																					71.00		
1.10	148-150	BH103	41																					371.00		
1.10	343-345	TP305	42				<0.1	<0.1	0.26	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30		<2	6.00
1.40	430-432	BH100	43				<0.1	1.10	0.30	<5	<5	<5	<5	<15	<0.1	0.2	<0.1	0.4	<5	<5	<5	<15	<30	<0.01		
1.50	202-204	WS205	44																							
1.60	397-399	BH104	45																							
1.60	466-468	WS207	46				2.50	145.60	593.90	2875.00	4313.00	2396.00	2396.00	12722.00	10.00	60.70	263.40	17668.00	17668.00	24735.00	28269.00	88674.00	101396.00	11980.00		
1.80	151-153	BH103	47																					<30		
2.00	97-99	WS215	48																					211.00		
2.00	124-126	WS214	49																					<30		
2.00	175-177	WS204	50																					190.00		
2.00	259-261	WS203	51																							
2.00	286-288	TP300	52				1.73	1.01	4.60	13.00	85.00	79.00	262.00	446.00	0.22	1.38	3.01	61.00	407.00	753.00	1412.00	2633.00	3079	446.00	<2	58.00
2.00	310-312	TP302	53	<5	<5	<35																				
2.00	346-348	TP305	54																					301.00		
2.00	358-360	TP306	55																					434.00		
2.00	370-372	WS206	56																					<30		
2.00	454-456	BH105	57																					<0.01		
2.00	493-495	WS212	58				<0.1	0.3	0.1	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30	<30		
2.00	520-522	WS213	59																					391.00		
2.00	547-549	WS208	60																							
2.00	568-570	WS209	61																					<30		
2.00	595-597	WS216	62				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30		<10	<10
2.00	732-734	WS211	63				<0.1	<0.1	<0.1	<0.1	<5	6.00	29.00	35.00	<0.1	<0.1	<0.1	<0.1	7.00	9.00	135.00	151.00	186.00	35.00	<10	<10
2.50	58-60	BH101	64				<0.1	<0.1	<0.1	<0.1	38.00	42.00	9.00	89.00	<0.1	0.10	<0.1	0.50	51.00	126.00	321.00	499.00	588.00	89.00	<2	83.00
2.50	85-87	BH102	65				<0.1	<0.1	<0.1	<0.1	60.00	70.00	12.00	142.00	<0.1	0.10	0.20	1.10	44.00	115.00	300.00	460.00	602.00	142.00	<2	103.00
2.50	154-156	BH103	66				<0.1	<0.1	0.16	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	1.80	<5	<5	<5	<15	<30		<2	58.65
2.50	205-207	WS205	67				<0.1	<0.1	0.38	0.10	45.00	101.00	55.00	201.00	<0.1	<0.1	<0.1	1.60	38.00	175.00	407.00	622.00	823.00	201.00	<2	52.48
2.50	400-402	BH104	68				<0.1	<0.1	<0.1	1	41.00	65.00	16.00	122.00	<0.1	<0.1	<0.1	0	19.00	54.00	12.00	86.00	208			
2.50	433-435	BH100	69				<0.1	0.30	0.20	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30			
3.00	10-12	WS200	70																					<30		
3.00	31-33	WS201	71																					<30		
3.00	178-180	WS204	72				<0.1	<0.1	0.22	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30		<2	16.51
3.00	235-237	WS202	73				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	<3
3.00	262-264	WS203	74				<0.1	<0.1	0.14	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	0.10	<5	<5	<5	<15	<30	<30		
3.00	298-300	TP301	75																					<30		
3.00	313-315	TP302	76				<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	26	26	26	<30	<2	6.00
3.00	325-327	TP303	77																					750.00		
3.00	337-339	TP304	78				<0.1	0.44	6.70	<5	10.00	15.00	<5	27.00	<0.1	<0.1	<0.1	34.00	72.00	85.00	55.00	245.00	272			
3.00	349-351	TP305	79				<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30			
3.00	361-363	TP306	80																					<30		
3.00	373-375	WS206	81				0.14	0.60	0.69	<5	40.00	66.00	39.00	146.00	<0.1	0.12	0.14	9.00	43.00	134.00	113.00	299.00	445		<2	23.00
3.00	457-459	BH105	82				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30			
3.00	550-552	WS208	83				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30		
3.00	598-600	WS216	84																					<30		
3.20	403-405	BH104	85																					<30		
3.50	208-210	WS205	86																							
3.50	439-441	BH100	87																					<0.01		
4.00	103-105	WS215	88				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	49.00	273.00	322	322	<30	<2	48.00
4.00	130-132	WS214	89				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	6.00
4.00	181-183	WS204	90																					<30		
4.00	265-267	WS203	91																							
4.00	376-378	WS206	92																							
4.00	418-420	TP305	93																					<30		
4.00	460-462	BH105	94																					<30		
4.00	475-477	WS207	95				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30	<30		
4.00	526-528	WS213	96				<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30			
4.00	601-603	WS216	97				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30		<10	<10
4.00	711-713	WS210	98				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<10	<10
4.20	415-417	TP304	99																					<30		
4.50	442-444	BH100	100	<5	<5	<35																				
4.60	160-162	BH103	101																					184.00		
5.00	16-18	WS200	102																					<30		
5.00	184-186	WS204	103				<0.1	<0.1	0.16	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	0.10	<5	<5	<5	<15	<30		<2	11.34
5.00	214-216	WS205	104				<0.1	0.36	0.37	<0.1	<5	<5	<5	<15	0.15	<0.1	0.32	0.90	<5	<5	<5	<15	<30	<30	<2	145.00
5.00	268-270	WS203	105				<0.1	<0.1	0.47	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	0.4	<5	<5	<5	<15	<30	<30	<10	<10
5.00	379-381	WS206	106																					<30		
5.00	409-411	BH104	107				<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30			
5.00	463-465	BH105	108																							
5.00	502-504	WS212	109				<0.1	<0.1	1.4	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30			
5.00	577-579	WS209	110				<0.1	<0.1	0.3	1.8	<5	<5	<5	<15	<0.1	<0.1	<0.1	1.5	<5	<5	<5	<15	<30	<30		
5.50	163-165	BH103	111				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	0.10	<5	<5	<5	<15	<30		<2	<3
6.00	19-21	WS200	112				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	0.20	0.50	<5	<5	<5	<15	<30	<30	<2	34.00
6.00	40-42	WS201	113				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	<3
6.00	136-138	WS214	114																					<30		
6.00	217-219	WS205	115																							
6.00	244-246	WS202	116				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	<3
6.00	382-384	WS206	117				<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30			
6.00	607-609	WS216	118				<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30		~	~
6.00	744-746	WS211	119				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<10	<10
6.90	636-638	WS208	120																					<30		
7.00	112-114	WS215	121																					<30		
7.00	190-192	WS204	122																					<30		
7.00	508-510	WS212	123																					<30		
7.00	535-537	WS213	124				<0.1	<0.1	0.1	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30	<30		
7.00	610-612	WS216	125																					<30		
7.00	720-722	WS210	126				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<10	<10
8.00	67-69	BH101	127																					<30		
8.00	223-225	WS205	128				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	33.28
8.00	250-252	WS202	129				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<30	<30	<2	<3
8.00	511-513	WS212	130				<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30	<30		
8.00	613-615	WS216	131																							
8.00	632	BH104	132																							
8.50	626-628	BH100	133				<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<0.1	<0.1	<0.1	<5	<5	<5	<5	<15	<30	<30		<10
9.00	633-635	BH105	134																					<30		
10.00	629-631	BH100	135																					<30		
10.10	166-168	BH103	136				<0.1	0.40	0.80	<0.1	<5	<5	<5	<15	0.18	<0.1	<0.1	2.60	<5	<5	<5	<15	<30	<30	<2	183.92
11.80	73-75	BH101	137				<0.1	<0.1	<0.1	<0.1	<5	<5	<5	<15	<0.1	0.70	0.50	1.00	<5	<5	<5	<15	<30	<30	<2	177.00
SGV commercial (SOM 6%)																										95000
CL:AIRE GAC commercial (SOM 1%)																									7900000	
CL:AIRE GAC commercial (SOM 2.5%)																									13000000	
CL:AIRE GAC commercial (SOM 6%)																									24000000	
S4UL commercial (SOM 1%)							3200	7800	2000	9700	59000	1600000			26000	56000	3500	16000	36000	28000	28000					27000
S4UL commercial (SOM 2.5%)							5900	17000	4800	23000	82000	1700000			46000	110000	8100	28000	37000	28000	28000					47000
S4UL commercial (SOM 6%)							12000	40000	11000	47000	90000	1800000			86000	180000	17000	34000	38000	28000	28000					90000

HYDROCARBONS MTBE BTEX

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Made Ground
Fill
Concrete
Boulder Clay
Sand

Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	Toluene	Ethylbenzene	m/p-Xylene	o-Xylene	Dichlorodifluoromethane	MTBE	Chloromethane	Vinyl Chloride	Bromomethane	Chloroethane	Trichlorofluoromethane	1,1-Dichloroethene	Dichloromethane	Trans-1,2-Dichloroethene	1,1-Dichloroethane	Cis-1,2-Dichloroethene	2,2-Dichloropropane	Bromochloromethane	Chloroform	1,1,1-Trichloroethane	1,1-Dichloropropene	Carbontetrachloride	1,2-Dichloroethane
Method Detection Limit				<3 ug/kg	<3ug/kg	<5 ug/kg	<3 ug/kg	<2 ug/kg	<2 ug/kg	<3 ug/kg	<2 ug/kg	<1 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<1 ug/kg	<2 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<2 ug/kg	<2 ug/kg
				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
0.50	22-24	WS201	1																							
0.50	49-51	BH101	2	16.00	5.00	5.00	<3	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
0.50	76-78	BH102	3	4.00	3.00	5.00	<3	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
0.50	91-93	WS215	4	4.00	<3	<5	<3	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
0.50	118-120	WS214	5	9.00	<3	<5	<3	<2	<2	<3	<2	<1	<3	<3	<3	8.00	<3	<3	3.00	<1	<2	<3	<3	<3	<2	<2
0.50	169-171	WS204	6																							
0.50	226-228	WS202	7																							
0.50	253-255	WS203	8																							
0.50	280-282	TP300	9																							
0.50	289-291	TP301	10					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
0.50	304-306	TP302	11																							
0.50	316-318	TP303	12																							
0.50	328-330	TP304	13																							
0.50	352-354	TP306	14					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
0.50	391-393	BH104	15					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
0.50	427-429	BH100	16					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
0.50	562-564	WS209	17																							
0.50	699-701	WS210	18	<10	<10	<10	<10	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
0.50	726-728	WS211	19	<10	<10	<10	<10																			
0.60	1-3	WS200	20																							
1.00	4-6	WS200	21	178.00	584.00	490.00	461.00	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	8.00	<1	<2	<3	<3	<3	<2	<2
1.00	25-27	WS201	22	<3	6.00	8.00	<3	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.00	172-174	WS204	23	21.42	177.31	61.88	178.50	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.00	199-201	WS205	24	19.26	16.05	14.98	11.77																			
1.00	229-231	WS202	25	<3	<3	<5	<3	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	6.00	<1	<2	<3	<3	<3	<2	<2
1.00	256-258	WS203	26																							
1.00	283-285	TP300	27					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.00	292-294	TP301	28	20.00	35.00	16.00	10.00	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.00	307-309	TP302	29					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.00	319-321	TP303	30																							
1.00	331-333	TP304	31																							
1.00	355-357	TP306	32																							
1.00	367-369	WS206	33					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.00	394-396	BH104	34	9.00	8.00	6.00	4.00	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.00	451-453	BH105	35																							
1.00	490-492	WS212	36					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.00	517-519	WS213	37																							
1.00	544-546	WS208	38					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.00	565-567	WS209	39					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.00	592-594	WS216	40					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.10	148-150	BH103	41					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	11.00	<1	<2	<3	<3	<3	<2	<2
1.10	343-345	TP305	42	18.00	22.00	15.00	16.00	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.40	430-432	BH100	43																							
1.50	202-204	WS205	44					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.60	397-399	BH104	45					<2	<2	<3	<2	<1	<3	<3	<3	39.00	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.60	466-468	WS207	46					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
1.80	151-153	BH103	47					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	4.00	<1	<2	<3	<3	<3	<2	<2
2.00	97-99	WS215	48					<3	<3	<3	<1	<2	<3	<3	<3	<2	90.00	<3	<2	<3	<3	<2	18.00	<2	<2	<3
2.00	124-126	WS214	49																							
2.00	175-177	WS204	50																							
2.00	259-261	WS203	51					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
2.00	286-288	TP300	52	184.00	1160.00	1394.00	1132.00	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
2.00	310-312	TP302	53																							
2.00	346-348	TP305	54																							
2.00	358-360	TP306	55					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
2.00	370-372	WS206	56																							
2.00	454-456	BH105	57					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
2.00	493-495	WS212	58					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
2.00	520-522	WS213	59					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
2.00	547-549	WS208	60																							
2.00	568-570	WS209	61																							
2.00	595-597	WS216	62	<10	<10	<10	<10																			
2.00	732-734	WS211	63	<10	<10	<10	<10	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
2.50	58-60	BH101	64	28.00	28.00	28.00	14.00	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
2.50	85-87	BH102	65	17.00	40.00	41.00	19.00	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
2.50	154-156	BH103	66	3.45	9.20	9.20	12.65																			
2.50	205-207	WS205	67	8.96	26.88	29.44	14.08																			
2.50	400-402	BH104	68																							
2.50	433-435	BH100	69																							
3.00	10-12	WS200	70																							
3.00	31-33	WS201	71																							
3.00	178-180	WS204	72	15.24	3.81	<5	<3	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
3.00	235-237	WS202	73	<3	<3	<5	<3	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
3.00	262-264	WS203	74																							
3.00	298-300	TP301	75					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
3.00	313-315	TP302	76	29.00	5.00	12.00	4.00	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
3.00	325-327	TP303	77																							
3.00	337-339	TP304	78																							
3.00	349-351	TP305	79																							
3.00	361-363	TP306	80																							
3.00	373-375	WS206	81	24.00	101.00	51.00	63.00	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
3.00	457-459	BH105	82																							
3.00	550-552	WS208	83					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
3.00	598-600	WS216	84					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
3.20	403-405	BH104	85																							
3.50	208-210	WS205	86					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
3.50	439-441	BH100	87					<2	<2	69.00	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
4.00	103-105	WS215	88	31.00	9.00	15.00	5.00	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	12.00	<1	<2	<3	<3	<3	<2	<2
4.00	130-132	WS214	89	8.00	<3	<5	<3	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	3.00	<1	<2	<3	<3	<3	<2	<2
4.00	181-183	WS204	90																							
4.00	265-267	WS203	91																							
4.00	376-378	WS206	92					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
4.00	418-420	TP305	93																							
4.00	460-462	BH105	94																							
4.00	475-477	WS207	95					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
4.00	526-528	WS213	96																							
4.00	601-603	WS216	97	<10	<10	<10	<10																			
4.00	711-713	WS210	98	<10	<10	<10	<10	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
4.20	415-417	TP304	99																							
4.50	442-444	BH100	100																							
4.60	160-162	BH103	101					<2	<2	<3	<2	<1	<3	<3	13.00	<3	9.00	8.00	59.00	<1	<2	<3	<3	<3	<2	<2
5.00	16-18	WS200	102																							
5.00	184-186	WS204	103	7.56	8.82	16.38	21.42	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
5.00	214-216	WS205	104	107.50	55.00	162.50	101.25																			
5.00	268-270	WS203	105	<10	<10	<10	<10																			
5.00	379-381	WS206	106					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
5.00	409-411	BH104	107																							
5.00	463-465	BH105	108					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
5.00	502-504	WS212	109					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
5.00	577-579	WS209	110					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
5.50	163-165	BH103	111	<3	<3	<5	<3																			
6.00	19-21	WS200	112	<3	131.00	14.00	21.00	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
6.00	40-42	WS201	113	<3	<3	<5	<3	<2	<2	8.00	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
6.00	136-138	WS214	114																							
6.00	217-219	WS205	115					<2	<2	6.00	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
6.00	244-246	WS202	116	<3	<3	<5	<3	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
6.00	382-384	WS206	117																							
6.00	607-609	WS216	118	~	~	~	~																			
6.00	744-746	WS211	119	<10	<10	<10	<10	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
6.90	636-638	WS208	120					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
7.00	112-114	WS215	121																							
7.00	190-192	WS204	122					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
7.00	508-510	WS212	123																							
7.00	535-537	WS213	124																							
7.00	610-612	WS216	125																							
7.00	720-722	WS210	126	<10	<10	<10	<10	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
8.00	67-69	BH101	127																							
8.00	223-225	WS205	128	8.96	44.80	28.16	38.40																			
8.00	250-252	WS202	129	<3	<3	<5	<3	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
8.00	511-513	WS212	130																							
8.00	613-615	WS216	131					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
8.00	632	BH104	132																							
8.50	626-628	BH100	133	<10	<10	<10	<10																			
9.00	633-635	BH105	134																							
10.00	629-631	BH100	135					<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
10.10	166-168	BH103	136	32.67	33.88	35.09	31.46																			
11.80	73-75	BH101	137	40.00	21.00	28.00	13.00	<2	<2	<3	<2	<1	<3	<3	<3	<3	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2
SGV commercial (SOM 6%)				4400000	2800000																					
CL:AIRE GAC commercial (SOM 1%)									7900000	1000			960000		26000	270000	22000	280000	14000							
CL:AIRE GAC commercial (SOM 2.5%)									13000000	1200			1300000		46000	360000	40000	450000	24000							
CL:AIRE GAC commercial (SOM 6%)									24000000	1600			2100000		92000	560000	81000	850000	47000							
S4UL commercial (SOM 1%)				56000000	5700000	5900000	6600000				59											99000	660000		2900	670
S4UL commercial (SOM 2.5%)				110000000	13000000	14000000	15000000				77											170000	1300000		6300	970
S4UL commercial (SOM 6%)				180000000	27000000	30000000	33000000				120											350000	3000000		14000	1700

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Made Ground
Fill
Concrete
Boulder Clay
Sand

Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	Benzene	Trichloroethene	1,2-Dichloropropane	Dibromomethane	Bromodichloromethane	Cis-1,3-Dichloropropene	Toluene	Trans-1,3-Dichloropropene	1,1,2-Trichloroethane	Tetrachloroethene	1,3-Dichloropropane	Dibromochloromethane	1,2-Dibromoethane	Chlorobenzene	1,1,1,2-tetrachloroethane	Ethylbenzene	p/m-Xylene	o-Xylene	Styrene	Bromoform	Isopropylbenzene	1,1,2,2-Tetrachloroethane	Bromobenzene	1,2,3-Trichloropropane
Method Detection Limit				<3 ug/kg	<3 ug/kg	<2 ug/kg	<3 ug/kg	<3 ug/kg	<2 ug/kg	<3 ug/kg	<2 ug/kg	<2 ug/kg	<3 ug/kg	<2 ug/kg	<2 ug/kg	<2 ug/kg	<2 ug/kg	<2 ug/kg	<3 ug/kg	<5 ug/kg	<3 ug/kg	<2 ug/kg	<2 ug/kg	<3 ug/kg	<4 ug/kg	<2 ug/kg	<3 ug/kg
				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
0.50	22-24	WS201	1																								
0.50	49-51	BH101	2	70.00	<3	<2	<3	<3	<2	16.00	<2	<2	<3	<2	<2	<2	<2	<2	5.00	5.00	<3	<2	<2	<3	<4	<2	<3
0.50	76-78	BH102	3	4.00	<3	<2	<3	<3	<2	4.00	<2	<2	<3	<2	<2	<2	<2	<2	3.00	5.00	<3	<2	<2	<3	<4	<2	<3
0.50	91-93	WS215	4	10.00	<3	<2	<3	<3	<2	4.00	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
0.50	118-120	WS214	5	5.00	<3	<2	<3	<3	<2	9.00	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
0.50	169-171	WS204	6																								
0.50	226-228	WS202	7																								
0.50	253-255	WS203	8																								
0.50	280-282	TP300	9																								
0.50	289-291	TP301	10	29.00	<3	<2	<3	<3	<2	39.00	<2	<2	39.00	<2	<2	<2	39.00	<2	111.00	112.00	85.00	21.00	<2	<3	<4	<2	<3
0.50	304-306	TP302	11																								
0.50	316-318	TP303	12																								
0.50	328-330	TP304	13																								
0.50	352-354	TP306	14	<3	<3	<2	<3	<3	<2	19.00	<2	<2	15.00	<2	<2	<2	<2	<2	7.00	6.00	5.00	<2	<2	<3	<4	<2	<3
0.50	391-393	BH104	15	<3	<3	<2	<3	<3	<2	5.00	<2	<2	6.00	<2	<2	<2	<2	<2	<3	5.00	<3	<2	<2	<3	<4	<2	<3
0.50	427-429	BH100	16	<3	<3	<2	<3	<3	<2	5.00	<2	<2	<3	<2	<2	<2	<2	<2	4.00	6.00	<3	<2	<2	<3	<4	<2	<3
0.50	562-564	WS209	17																								
0.50	699-701	WS210	18	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
0.50	726-728	WS211	19																								
0.60	1-3	WS200	20																								
1.00	4-6	WS200	21	750.00	<3	<2	<3	<3	<2	178.00	<2	<2	<3	<2	<2	<2	170.00	<2	584.00	490.00	461.00	<2	<2	40.00	<4	<2	<3
1.00	25-27	WS201	22	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	6.00	8.00	<3	<2	<2	<3	<4	<2	<3
1.00	172-174	WS204	23	134.00	<3	<2	<3	<3	<2	46.00	<2	<2	<3	<2	<2	<2	<2	<2	427.00	192.00	328.00	<2	<2	49.00	<4	<2	<3
1.00	199-201	WS205	24																								
1.00	229-231	WS202	25	96.00	<3	<2	<3	<3	<2	46.00	<2	<2	<3	<2	<2	<2	<2	<2	122.00	111.00	73.00	24.00	<2	14.00	<4	<2	<3
1.00	256-258	WS203	26																								
1.00	283-285	TP300	27	40.00	<3	<2	<3	<3	<2	140.00	<2	<2	44.00	<2	<2	<2	<2	<2	594.00	1393.00	864.00	186.00	<2	<3	<4	<2	<3
1.00	292-294	TP301	28	15.00	<3	<2	<3	<3	<2	25.00	<2	<2	226.00	<2	<2	<2	11.00	<2	43.00	20.00	12.00	<2	<2	<3	<4	<2	<3
1.00	307-309	TP302	29	107.00	<3	<2	<3	<3	<2	61.00	<2	<2	31.00	<2	<2	<2	<2	<2	354.00	183.00	229.00	<2	<2	<3	<4	<2	<3
1.00	319-321	TP303	30																								
1.00	331-333	TP304	31																								
1.00	355-357	TP306	32																								
1.00	367-369	WS206	33	<3	<3	<2	<3	<3	<2	6.00	<2	<2	10.00	<2	<2	<2	7.00	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
1.00	394-396	BH104	34	<3	<3	<2	<3	<3	<2	11.00	<2	<2	46.00	<2	<2	<2	51.00	<2	9.00	7.00	5.00	<2	<2	<3	<4	<2	<3
1.00	451-453	BH105	35																								
1.00	490-492	WS212	36	11.00	<3	<2	<3	<3	<2	17.00	<2	<2	<3	<2	<2	<2	<2	<2	6.00	16.00	5.00	6.00	<2	<3	<4	<2	<3
1.00	517-519	WS213	37																								
1.00	544-546	WS208	38	<3	<3	<2	<3	<3	<2	5.00	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
1.00	565-567	WS209	39	<3	<3	<2	<3	<3	<2	5.00	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
1.00	592-594	WS216	40	18.00	<3	<2	<3	<3	<2	18.00	<2	<2	<3	<2	<2	<2	<2	<2	7.00	17.00	8.00	14.00	<2	<3	<4	<2	<3
1.10	148-150	BH103	41	90.00	<3	<2	<3	<3	<2	31.00	<2	<2	<3	<2	<2	<2	<2	<2	115.00	70.00	99.00	17.00	<2	17.00	<4	<2	<3
1.10	343-345	TP305	42	8.00	<3	<2	<3	<3	<2	24.00	<2	<2	102.00	<2	<2	<2	<2	<2	29.00	20.00	21.00	8.00	<2	<3	<4	<2	<3
1.40	430-432	BH100	43																								
1.50	202-204	WS205	44	41.00	<3	<2	<3	<3	<2	15.00	<2	<2	<3	<2	<2	<2	<2	<2	20.00	33.00	21.00	<2	<2	<3	<4	<2	<3
1.60	397-399	BH104	45	187.00	<3	<2	<3	<3	<2	57.00	<2	<2	4.00	<2	<2	<2	<2	<2	111.00	88.00	61.00	24.00	<2	5.00	<4	<2	<3
1.60	466-468	WS207	46	7195.00	1855.00	<2	<3	<3	<2	86182.00	<2	<2	<3	<2	<2	<2	<2	<2	26935.00	192890.00	66743.00	57157.00	<2	<3	<4	<2	<3
1.80	151-153	BH103	47	15.00	<3	<2	<3	<3	<2	7.00	<2	<2	<3	<2	<2	<2	<2	<2	9.00	13.00	9.00	<2	<2	<3	<4	<2	<3
2.00	97-99	WS215	48	<2	<2	<2	<2	<2	81.00	54.00	41.00	10.00	<2	17.00	<4	<2	<3	17.00	<3	50.00	<3	<3	192.00	<3	31.00	<3	<3
2.00	124-126	WS214	49																								
2.00	175-177	WS204	50																								
2.00	259-261	WS203	51	423.00	<3	<2	<3	<3	<2	200.00	<2	<2	<3	<2	<2	<2	<2	<2	2509.00	3062.00	2708.00	<2	<2	272.00	<4	<2	<3
2.00	286-288	TP300	52	69.00	<3	<2	<3	<3	<2	220.00	<2	<2	2629.00	<2	<2	<2	107.00	<2	1384.00	1663.00	1350.00	<2	<2	<3	<4	<2	<3
2.00	310-312	TP302	53																								
2.00	346-348	TP305	54																								
2.00	358-360	TP306	55	<3	<3	<2	<3	<3	<2	12.00	<2	<2	13.00	<2	<2	<2	23.00	<2	5.00	11.00	5.00	<2	<2	<3	<4	<2	<3
2.00	370-372	WS206	56																								
2.00	454-456	BH105	57	<3	<3	<2	<3	<3	<2	9.00	<2	<2	<3	<2	<2	<2	<2	<2	4.00	9.00	4.00	<2	<2	<3	<4	<2	<3
2.00	493-495	WS212	58	<3	<3	<2	<3	<3	<2	4.00	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
2.00	520-522	WS213	59	211.00	<3	<2	<3	<3	<2	50.00	<2	<2	<3	<2	<2	<2	<2	<2	91.00	79.00	39.00	21.00	<2	<3	<4	<2	<3
2.00	547-549	WS208	60																								
2.00	568-570	WS209	61																								
2.00	595-597	WS216	62																								
2.00	732-734	WS211	63	8.00	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
2.50	58-60	BH101	64	83.00	<3	<2	<3	<3	<2	28.00	<2	<2	<3	<2	<2	<2	<2	<2	28.00	28.00	14.00	7.00	<2	<3	<4	<2	<3
2.50	85-87	BH102	65	103.00	<3	<2	<3	<3	<2	17.00	<2	<2	<3	<2	<2	<2	<2	<2	40.00	41.00	19.00	8.00	<2	9.00	<4	<2	<3
2.50	154-156	BH103	66																								
2.50	205-207	WS205	67																								
2.50	400-402	BH104	68																								
2.50	433-435	BH100	69																								
3.00	10-12	WS200	70																								
3.00	31-33	WS201	71																								
3.00	178-180	WS204	72	29.00	<3	<2	<3	<3	<2	11.00	<2	<2	<3	<2	<2	<2	<2	<2	9.00	13.00	6.00	<2	<2	<3	<4	<2	<3
3.00	235-237	WS202	73	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
3.00	262-264	WS203	74																								
3.00	298-300	TP301	75	4.00	<3	<2	<3	<3	<2	26.00	<2	<2	56.00	<2	<2	<2	<2	<2	6.00	11.00	6.00	<2	<2	<3	<4	<2	<3
3.00	313-315	TP302	76	7.00	<3	<2	<3	<3	<2	35.00	<2	<2	173.00	<2	<2	<2	<2	<2	6.00	15.00	5.00	<2	<2	<3	<4	<2	<3
3.00	325-327	TP303	77																								
3.00	337-339	TP304	78																								
3.00	349-351	TP305	79																								
3.00	361-363	TP306	80																								
3.00	373-375	WS206	81	27.00	<3	<2	<3	<3	<2	28.00	<2	<2	67.00	<2	<2	<2	130.00	<2	119.00	60.00	74.00	<2	<2	<3	<4	<2	<3
3.00	457-459	BH105	82																								
3.00	550-552	WS208	83	<3	<3	<2	<3	<3	<2	7.00	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
3.00	598-600	WS216	84	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
3.20	403-405	BH104	85																								
3.50	208-210	WS205	86	4.00	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	24.00	42.00	31.00	<2	<2	31.00	<4	<2	<3
3.50	439-441	BH100	87	<3	<3	<2	<3	<3	<2	12.00	<2	<2	<3	<2	<2	<2	<2	<2	11.00	16.00	5.00	<2	<2	<3	<4	<2	<3
4.00	103-105	WS215	88	48.00	12.00	<2	<3	<3	<2	31.00	<2	<2	4.00	<2	<2	<2	9.00	<2	9.00	15.00	5.00	4.00	<2	<3	<4	<2	<3
4.00	130-132	WS214	89	6.00	<3	<2	<3	<3	<2	8.00	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
4.00	181-183	WS204	90																								
4.00	265-267	WS203	91																								
4.00	376-378	WS206	92	4.00	<3	<2	<3	<3	<2	4.00	<2	<2	12.00	<2	<2	<2	<2	<2	10.00	<5	<3	<2	<2	<3	<4	<2	<3
4.00	418-420	TP305	93																								
4.00	460-462	BH105	94																								
4.00	475-477	WS207	95	<3	<3	<2	<3	<3	<2	9.00	<2	<2	<3	<2	<2	<2	<2	<2	<3	6.00	<3	<2	<2	<3	<4	<2	<3
4.00	526-528	WS213	96																								
4.00	601-603	WS216	97																								
4.00	711-713	WS210	98	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
4.20	415-417	TP304	99																								
4.50	442-444	BH100	100																								
4.60	160-162	BH103	101	166.00	<3	<2	<3	<3	<2	339.00	<2	<2	<3	<2	<2	<2	<2	<2	164.00	624.00	325.00	66.00	<2	27.00	<4	<2	<3
5.00	16-18	WS200	102																								
5.00	184-186	WS204	103	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
5.00	214-216	WS205	104																								
5.00	268-270	WS203	105																								
5.00	379-381	WS206	106	135.00	<3	<2	<3	<3	<2	285.00	<2	<2	<3	<2	<2	<2	<2	<2	1512.00	4745.00	1846.00	<2	<2	<3	<4	<2	<3
5.00	409-411	BH104	107																								
5.00	463-465	BH105	108	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
5.00	502-504	WS212	109	6.00	<3	<2	<3	<3	<2	8.00	<2	<2	<3	<2	<2	<2	<2	<2	8.00	13.00	5.00	<2	<2	<3	<4	<2	<3
5.00	577-579	WS209	110	<3	<3	<2	<3	<3	<2	4.00	<2	<2	<3	<2	<2	<2	<2	<2	4.00	9.00	<3	<2	<2	<3	<4	<2	<3
5.50	163-165	BH103	111																								
6.00	19-21	WS200	112	34.00	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	131.00	14.00	21.00	<2	<2	8.00	<4	<2	<3
6.00	40-42	WS201	113	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
6.00	136-138	WS214	114																								
6.00	217-219	WS205	115	243.00	<3	<2	<3	<3	<2	196.00	<2	<2	<3	<2	<2	<2	<2	<2	68.00	210.00	100.00	39.00	<2	<3	<4	<2	<3
6.00	244-246	WS202	116	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
6.00	382-384	WS206	117																								
6.00	607-609	WS216	118																								
6.00	744-746	WS211	119	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
6.90	636-638	WS208	120	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
7.00	112-114	WS215	121																								
7.00	190-192	WS204	122	11.00	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
7.00	508-510	WS212	123																								
7.00	535-537	WS213	124																								
7.00	610-612	WS216	125																								
7.00	720-722	WS210	126	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
8.00	67-69	BH101	127																								
8.00	223-225	WS205	128																								
8.00	250-252	WS202	129	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
8.00	511-513	WS212	130																								
8.00	613-615	WS216	131	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	6.00	12.00	4.00	<2	<2	<3	<4	<2	<3
8.00	632	BH104	132																								
8.50	626-628	BH100	133																								
9.00	633-635	BH105	134																								
10.00	629-631	BH100	135	<3	<3	<2	<3	<3	<2	<3	<2	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3
10.10	166-168	BH103	136																								
11.80	73-75	BH101	137	177.00	<3	<2	<3	<3	<2	40.00	<2	<2	<3	<2	<2	<2	<2	<2	21.00	28.00	13.00	<2	<2	<3	<4	<2	<3
SGV commercial (SOM 6%)				95000						4400000									2800000								
CL:AIRE GAC commercial (SOM 1%)						3300		2100				94000										3300000		1400000		97000	
CL:AIRE GAC commercial (SOM 2.5%)						5900		3700				190000										6500000		3300000		220000	
CL:AIRE GAC commercial (SOM 6%)						12000		7600				400000										11000000		7700000		520000	
S4UL commercial (SOM 1%)				27000	1200					56000000			19000				56000	110000	5700000	5900000	6600000				270000		
S4UL commercial (SOM 2.5%)				47000	2600					110000000			42000				130000	250000	13000000	14000000	15000000				550000		
S4UL commercial (SOM 6%)				90000	5700					180000000			95000				290000	560000	27000000	30000000	33000000				1100000		

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Made Ground
Fill
Concrete
Boulder Clay
Sand

Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	Propylbenzene	2-Chlorotoluene	1,3,5-Trimethylbenzene	4-Chlorotoluene	Tert-Butylbenzene	1,2,4-Trimethylbenzene	Sec-Butylbenzene	4-Isopropyltoluene	1,4-Dichlorobenzene	1,3-Dichlorobenzene	n-Butylbenzene	1,2-Dichlorobenzene	1,2-Dibromo-3-Chloropropane	1,2,4-Trichlorobenzene	Hexachlorobutadiene	Naphthalene	1,2,3-Trichlorobenzene		2-Chlorophenol	2-Methylphenol	2-Nitrophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4,5-Trichlorophenol
Method Detection Limit				<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<3 ug/kg	<2 ug/kg	<3 ug/kg	<3 ug/kg	<2 ug/kg	<3 ug/kg		<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg
				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
0.50	22-24	WS201	1																								
0.50	49-51	BH101	2	<3	<3	<3	<3	<3	12.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	<2	<3		<10	<10	<10	<10	<10	<10
0.50	76-78	BH102	3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	15.00	<3		<10	<10	<10	<10	<10	<10
0.50	91-93	WS215	4	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	15.00	<3		<10	<10	<10	<10	<10	<10
0.50	118-120	WS214	5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	7.00	<3		<10	<10	<10	<10	<10	<10
0.50	169-171	WS204	6																								
0.50	226-228	WS202	7																								
0.50	253-255	WS203	8																								
0.50	280-282	TP300	9																								
0.50	289-291	TP301	10	<3	<3	78.00	<3	<3	206.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	2318.00	<3		<10	<10	<10	<10	<10	<10
0.50	304-306	TP302	11																								
0.50	316-318	TP303	12																								
0.50	328-330	TP304	13																								
0.50	352-354	TP306	14	<3	<3	<3	<3	<3	18.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	24.00	<3		<10	<10	<10	<10	<10	<10
0.50	391-393	BH104	15	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	157.00	<3		<10	<10	<10	<10	<10	<10
0.50	427-429	BH100	16	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	39.00	<3		<10	<10	<10	<10	<10	<10
0.50	562-564	WS209	17																								
0.50	699-701	WS210	18	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	<2	<3		<10	<10	<10	<10	<10	<10
0.50	726-728	WS211	19																								
0.60	1-3	WS200	20																								
1.00	4-6	WS200	21	<3	<3	359.00	<3	<3	660.00	<3	71.00	<3	<3	<3	<3	<2	<3	<3	8826.00	<3		<10	<10	<10	<10	<10	<10
1.00	25-27	WS201	22	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	31.00	<3		<10	<10	<10	<10	<10	<10
1.00	172-174	WS204	23	49.00	<3	159.00	<3	<3	1000.00	<3	<3	<3	<3	132.00	<3	<2	<3	<3	1804.00	<3		<10	<10	<10	<10	<10	<10
1.00	199-201	WS205	24																								
1.00	229-231	WS202	25	<3	<3	84.00	<3	<3	155.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	535.00	<3		<10	<10	<10	<10	<10	<10
1.00	256-258	WS203	26																								
1.00	283-285	TP300	27	<3	<3	684.00	<3	<3	1907.00	<3	120.00	<3	<3	<3	<3	<2	<3	<3	16972.00	<3		<10	<10	<10	<10	<10	<10
1.00	292-294	TP301	28	<3	<3	17.00	<3	<3	51.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	343.00	<3		<10	<10	<10	<10	<10	<10
1.00	307-309	TP302	29	<3	<3	102.00	<3	<3	652.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	1089.00	<3		<10	<10	<10	<10	<10	<10
1.00	319-321	TP303	30																								
1.00	331-333	TP304	31																								
1.00	355-357	TP306	32																								
1.00	367-369	WS206	33	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	6.00	<3		<10	<10	<10	<10	<10	<10
1.00	394-396	BH104	34	<3	<3	<3	<3	<3	16.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	65.00	<3		<10	<10	<10	<10	<10	<10
1.00	451-453	BH105	35																								
1.00	490-492	WS212	36	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	486.00	<3		<10	<10	<10	<10	<10	<10
1.00	517-519	WS213	37																								
1.00	544-546	WS208	38	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	143.00	<3		<10	<10	<10	<10	<10	<10
1.00	565-567	WS209	39	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	10.00	<3		<10	<10	<10	<10	<10	<10
1.00	592-594	WS216	40	<3	<3	<3	<3	<3	13.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	561.00	<3		<10	<10	<10	<10	<10	<10
1.10	148-150	BH103	41	19.00	<3	77.00	<3	<3	239.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	370.00	<3		<10	<10	<10	<10	<10	<10
1.10	343-345	TP305	42	<3	<3	18.00	<3	<3	55.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	744.00	<3		<10	<10	<10	<10	<10	<10
1.40	430-432	BH100	43																								
1.50	202-204	WS205	44	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	573.00	<3		<10	<10	<10	<10	<10	<10
1.60	397-399	BH104	45	<3	<3	17.00	<3	<3	48.00	<3	<3	<3	<3	<3	<3	<2	4.00	<3	465.00	<3		<10	<10	<10	<10	<10	<10
1.60	466-468	WS207	46	<3	<3	36581.00	<3	<3	77474.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	3372367.00	<3		<100	<100	<100	<100	<100	<100
1.80	151-153	BH103	47	<3	<3	9.00	<3	<3	24.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	517.00	<3		<10	<10	<10	<10	<10	<10
2.00	97-99	WS215	48	<3	<3	<2	<3	<3	359.00	<3												<10	<10	<10	<10	<10	<10
2.00	124-126	WS214	49																								
2.00	175-177	WS204	50																								
2.00	259-261	WS203	51	280.00	<3	1426.00	<3	<3	4665.00	<3	307.00	<3	<3	<3	<3	<2	<3	<3	33265.00	<3		<10	<10	<10	<10	<10	<10
2.00	286-288	TP300	52	<3	<3	1413.00	<3	432.00	4882.00	<3	234.00	<3	<3	<3	<3	<2	<3	<3	37909.00	<3		<10	<10	<10	<10	<10	<10
2.00	310-312	TP302	53																								
2.00	346-348	TP305	54																								
2.00	358-360	TP306	55	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	14.00	<3		<10	<10	<10	<10	<10	<10
2.00	370-372	WS206	56																								
2.00	454-456	BH105	57	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	31.00	<3		<10	<10	<10	<10	<10	<10
2.00	493-495	WS212	58	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	70.00	<3		<10	<10	<10	<10	<10	<10
2.00	520-522	WS213	59	<3	<3	19.00	<3	<3	69.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	489.00	<3		<10	<10	<10	<10	<10	<10
2.00	547-549	WS208	60																								
2.00	568-570	WS209	61																								
2.00	595-597	WS216	62																								
2.00	732-734	WS211	63	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	<2	<3		<10	<10	<10	<10	<10	<10
2.50	58-60	BH101	64	<3	<3	<3	<3	<3	12.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	223.00	<3		<10	<10	<10	<10	<10	<10
2.50	85-87	BH102	65	<3	<3	<3	<3	<3	28.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	255.00	<3		<10	<10	<10	<10	<10	<10
2.50	154-156	BH103	66																								
2.50	205-207	WS205	67																								
2.50	400-402	BH104	68																								
2.50	433-435	BH100	69																								
3.00	10-12	WS200	70																								
3.00	31-33	WS201	71																								
3.00	178-180	WS204	72	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	244.00	<3		<10	<10	<10	<10	<10	<10
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3.00	262-264	WS203	74																								
3.00	298-300	TP301	75	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	99.00	<3		<10	<10	<10	<10	<10	<10
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3.00	325-327	TP303	77																								
3.00	337-339	TP304	78																								
3.00	349-351	TP305	79																								
3.00	361-363	TP306	80																								
3.00	373-375	WS206	81	<3	<3	<3	<3	<3	202.00	<3	27.00	<3	<3	<3	<3	<2	<3	<3	184.00	<3		<10	<10	<10	<10	<10	<10
3.00	457-459	BH105	82																								
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3.20	403-405	BH104	85																								
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4.00	181-183	WS204	90																								
4.00	265-267	WS203	91																			<10	<10	<10	<10	<10	<10
4.00	376-378	WS206	92	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	31.00	<3		<10	<10	<10	<10	<10	<10
4.00	418-420	TP305	93																								
4.00	460-462	BH105	94																								
4.00	475-477	WS207	95	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	32.00	<3		<10	<10	<10	<10	<10	<10
4.00	526-528	WS213	96																								
4.00	601-603	WS216	97																								
4.00	711-713	WS210	98	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	<2	<3		<10	<10	<10	<10	<10	<10
4.20	415-417	TP304	99																								
4.50	442-444	BH100	100																								
4.60	160-162	BH103	101	23.00	<3	204.00	<3	<3	625.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	67669.00	<3		<10	12435.35	<10	<10	12287.53	<10
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5.00	214-216	WS205	104																								
5.00	268-270	WS203	105																								
5.00	379-381	WS206	106	<3	<3	1760.00	<3	355.00	4132.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	95041.00	<3		<10	<10	<10	<10	<10	<10
5.00	409-411	BH104	107																								
5.00	463-465	BH105	108	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	9.00	<3		<10	<10	<10	<10	<10	<10
5.00	502-504	WS212	109	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	49.00	<3		<10	<10	<10	<10	<10	<10
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5.50	163-165	BH103	111																								
6.00	19-21	WS200	112	11.00	<3	<3	<3	<3	43.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	213.00	<3		<10	<10	<10	<10	<10	<10
6.00	40-42	WS201	113	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	8.00	<3		<10	<10	<10	<10	<10	<10
6.00	136-138	WS214	114																								
6.00	217-219	WS205	115	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	328.00	<3		<10	64.93	<10	<10	197.29	<10
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6.00	382-384	WS206	117																								
6.00	607-609	WS216	118																								
6.00	744-746	WS211	119	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	<2	<3		<10	<10	<10	<10	<10	<10
6.90	636-638	WS208	120	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	6.00	<3		<10	<10	<10	<10	<10	<10
7.00	112-114	WS215	121																								
7.00	190-192	WS204	122	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	13.00	<3		<10	<10	<10	<10	<10	<10
7.00	508-510	WS212	123																								
7.00	535-537	WS213	124																								
7.00	610-612	WS216	125																								
7.00	720-722	WS210	126	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	<2	<3		<10	<10	<10	<10	<10	<10
8.00	67-69	BH101	127																								
8.00	223-225	WS205	128																								
8.00	250-252	WS202	129	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	<2	<3		<10	<10	<10	<10	<10	<10
8.00	511-513	WS212	130																								
8.00	613-615	WS216	131	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	19.00	<3		<10	<10	<10	<10	<10	<10
8.00	632	BH104	132																								
8.50	626-628	BH100	133																								
9.00	633-635	BH105	134																								
10.00	629-631	BH100	135	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	<2	<3		<10	<10	<10	<10	<10	<10
10.10	166-168	BH103	136																								
11.80	73-75	BH101	137	<3	<3	<3	<3	<3	10.00	<3	<3	<3	<3	<3	<3	<2	<3	<3	392.00	<3		<10	<10	<10	<10	<10	<10
SGV commercial (SOM 6%)																											
CL:AIRE GAC commercial (SOM 1%)				4100000					42000														160000000*			16000000	
CL:AIRE GAC commercial (SOM 2.5%)				9700000					99000														180000000*			24000000	
CL:AIRE GAC commercial (SOM 6%)				21000000					220000														180000000*			30000000	
S4UL commercial (SOM 1%)												4400000	30000		2000000		220000	31000	190000	102000		3500000			3500000		
S4UL commercial (SOM 2.5%)												10000000	73000		4800000		530000	66000	460000	250000		4000000			4000000		
S4UL commercial (SOM 6%)												25000000	170000		11000000		1300000	120000	1100000	590000		4300000			4300000		

SVOCs

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Made Ground
Fill
Concrete
Boulder Clay
Sand

Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	2,4,6-Trichlorophenol	4-Chloro-3-methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol	2-Chloronaphthalene	2-Methylnaphthalene	Bis(2-ethylhexyl) phthalate	Butylbenzene phthalate	Di-n-butyl phthalate	Di-n-Octyl phthalate	Diethyl phthalate	Dimethyl phthalate	1,2-Dichlorobenzene	1,2,4-Trichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Nitroaniline	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3-Nitroaniline	4-Bromophenylphenylether	4-Chloroaniline
Method Detection Limit				<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg
				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	mg/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
0.50	22-24	WS201	1																								
0.50	49-51	BH101	2	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	76-78	BH102	3	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	91-93	WS215	4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	118-120	WS214	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	169-171	WS204	6																								
0.50	226-228	WS202	7																								
0.50	253-255	WS203	8																								
0.50	280-282	TP300	9																								
0.50	289-291	TP301	10	<10	<10	<10	<10	<10	<10	<10	4116.72	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	304-306	TP302	11																								
0.50	316-318	TP303	12																								
0.50	328-330	TP304	13																								
0.50	352-354	TP306	14	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	391-393	BH104	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	427-429	BH100	16	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	562-564	WS209	17																								
0.50	699-701	WS210	18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	726-728	WS211	19																								
0.60	1-3	WS200	20																								
1.00	4-6	WS200	21	<10	<10	<10	<10	<10	<10	<10	2486.39	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	25-27	WS201	22	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
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1.00	199-201	WS205	24																								
1.00	229-231	WS202	25	<10	<10	<10	<10	<10	HPLC	<10	288.50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	256-258	WS203	26																								
1.00	283-285	TP300	27	<10	<10	<10	<10	<10	<10	<10	25942.85	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	292-294	TP301	28	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	307-309	TP302	29	<10	<10	<10	<10	<10	<10	<10	1749.22	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	319-321	TP303	30																								
1.00	331-333	TP304	31																								
1.00	355-357	TP306	32																								
1.00	367-369	WS206	33	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
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1.00	451-453	BH105	35																								
1.00	490-492	WS212	36	<10	<10	<10	<10	<10	<10	<10	357.08	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	517-519	WS213	37																								
1.00	544-546	WS208	38	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
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1.00	592-594	WS216	40	<10	<10	<10	<10	<10	<10	<10	995.43	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
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1.40	430-432	BH100	43																								
1.50	202-204	WS205	44	<10	<10	<10	<10	<10	<10	<10	478.43	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
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1.80	151-153	BH103	47	<10	<10	<10	<10	<10		<10	437.20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
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2.00	124-126	WS214	49																								
2.00	175-177	WS204	50																								
2.00	259-261	WS203	51	<10	<10	<10	<10	<10	<10	<10	629.00	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2.00	286-288	TP300	52	<10	<10	<10	<10	<10	<10	<10	2197.87	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2.00	310-312	TP302	53																								
2.00	346-348	TP305	54																								
2.00	358-360	TP306	55	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2.00	370-372	WS206	56																								
2.00	454-456	BH105	57	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
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2.00	520-522	WS213	59	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2.00	547-549	WS208	60																								
2.00	568-570	WS209	61																								
2.00	595-597	WS216	62																								
2.00	732-734	WS211	63	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
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2.50	85-87	BH102	65	<10	<10	<10	<10	<10	<10	<10	112.06	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2.50	154-156	BH103	66																								
2.50	205-207	WS205	67																								
2.50	400-402	BH104	68																								
2.50	433-435	BH100	69																								
3.00	10-12	WS200	70																								
3.00	31-33	WS201	71																								
3.00	178-180	WS204	72	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.00	235-237	WS202	73	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.00	262-264	WS203	74																								
3.00	298-300	TP301	75	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.00	313-315	TP302	76	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.00	325-327	TP303	77																								
3.00	337-339	TP304	78																								
3.00	349-351	TP305	79																								
3.00	361-363	TP306	80																								
3.00	373-375	WS206	81	<10	<10	<10	<10	<10	<10	<10	447.75	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.00	457-459	BH105	82																								
3.00	550-552	WS208	83	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.00	598-600	WS216	84	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.20	403-405	BH104	85																								
3.50	208-210	WS205	86	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.50	439-441	BH100	87	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
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4.00	130-132	WS214	89	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.00	181-183	WS204	90																								
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4.00	376-378	WS206	92	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.00	418-420	TP305	93																								
4.00	460-462	BH105	94																								
4.00	475-477	WS207	95	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.00	526-528	WS213	96																								
4.00	601-603	WS216	97																								
4.00	711-713	WS210	98	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.20	415-417	TP304	99																								
4.50	442-444	BH100	100																								
4.60	160-162	BH103	101	<10	<10	25032.79	<10	<10		<10	62570.96	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5.00	16-18	WS200	102																								
5.00	184-186	WS204	103	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5.00	214-216	WS205	104																								
5.00	268-270	WS203	105																								
5.00	379-381	WS206	106	<10	<10	<10	<10	<10	<10	<10	921.32	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5.00	409-411	BH104	107																								
5.00	463-465	BH105	108	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5.00	502-504	WS212	109	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5.00	577-579	WS209	110	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5.50	163-165	BH103	111																								
6.00	19-21	WS200	112	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
6.00	40-42	WS201	113	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
6.00	136-138	WS214	114																								
6.00	217-219	WS205	115	<10	<10	109.89	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
6.00	244-246	WS202	116	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
6.00	382-384	WS206	117																								
6.00	607-609	WS216	118																								
6.00	744-746	WS211	119	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
6.90	636-638	WS208	120	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
7.00	112-114	WS215	121																								
7.00	190-192	WS204	122	<10	<10	<10	<10	<10	HPLC	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
7.00	508-510	WS212	123																								
7.00	535-537	WS213	124																								
7.00	610-612	WS216	125																								
7.00	720-722	WS210	126	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8.00	67-69	BH101	127																								
8.00	223-225	WS205	128																								
8.00	250-252	WS202	129	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8.00	511-513	WS212	130																								
8.00	613-615	WS216	131	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8.00	632	BH104	132																								
8.50	626-628	BH100	133																								
9.00	633-635	BH105	134																								
10.00	629-631	BH100	135	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10.10	166-168	BH103	136																								
11.80	73-75	BH101	137	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SGV commercial (SOM 6%)									3200000																		
CL:AIRE GAC commercial (SOM 1%)						160000000*				390000		85000000	940000000	15000000	89000000	150000000							3700000	1900000			
CL:AIRE GAC commercial (SOM 2.5%)						180000000*				960000		86000000	940000000	15000000	89000000	220000000							3700000	1900000			
CL:AIRE GAC commercial (SOM 6%)						180000000*				2200000		86000000	950000000	15000000	89000000	290000000							3800000	1900000			
S4UL commercial (SOM 1%)				3500000				400000	440000																		
S4UL commercial (SOM 2.5%)				4000000				400000	690000																		
S4UL commercial (SOM 6%)				4300000				400000	1300000																		

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* 2-, 3- and 4- methylphenol total

Made Ground
Fill
Concrete
Boulder Clay
Sand

Depth (m bgl)	Lab Reference Number	Sample Ref	Sample Number	4-Chlorophenylphenylether	4-Nitroaniline	Azobenzene	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Carbazole	Dibenzofuran	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	N-nitrosodi-n-propylamine	Nitrobenzene
Method Detection Limit				<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg	<10 ug/kg
				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
0.50	22-24	WS201	1														
0.50	49-51	BH101	2	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	76-78	BH102	3	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	91-93	WS215	4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	118-120	WS214	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	169-171	WS204	6														
0.50	226-228	WS202	7														
0.50	253-255	WS203	8														
0.50	280-282	TP300	9														
0.50	289-291	TP301	10	<10	<10	<10	<10	<10	719.13	3056.56	<10	<10	<10	<10	<10	<10	<10
0.50	304-306	TP302	11														
0.50	316-318	TP303	12														
0.50	328-330	TP304	13														
0.50	352-354	TP306	14	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	391-393	BH104	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	427-429	BH100	16	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	562-564	WS209	17														
0.50	699-701	WS210	18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
0.50	726-728	WS211	19														
0.60	1-3	WS200	20														
1.00	4-6	WS200	21	<10	<10	<10	<10	<10	707.70	2632.64	<10	<10	<10	<10	<10	<10	<10
1.00	25-27	WS201	22	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	172-174	WS204	23	<10	<10	<10	<10	<10	266.38	1254.61	<10	<10	<10	<10	<10	<10	<10
1.00	199-201	WS205	24														
1.00	229-231	WS202	25	<10	<10	<10	<10	<10	361.79	1177.26	<10	<10	<10	<10	<10	<10	<10
1.00	256-258	WS203	26														
1.00	283-285	TP300	27	<10	<10	<10	<10	<10	2584.63	5859.04	<10	<10	<10	<10	<10	<10	<10
1.00	292-294	TP301	28	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	307-309	TP302	29	<10	<10	<10	<10	<10	1619.12	3176.79	<10	<10	<10	<10	<10	<10	<10
1.00	319-321	TP303	30														
1.00	331-333	TP304	31														
1.00	355-357	TP306	32														
1.00	367-369	WS206	33	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	394-396	BH104	34	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	451-453	BH105	35														
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1.00	517-519	WS213	37														
1.00	544-546	WS208	38	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.00	565-567	WS209	39	<10	<10	<10	<10	<10	<10	163.55	<10	<10	<10	<10	<10	<10	<10
1.00	592-594	WS216	40	<10	<10	<10	<10	<10	568.50	1470.29	<10	<10	<10	<10	<10	<10	<10
1.10	148-150	BH103	41	<10	<10	<10	<10	<10	<10	412.90	<10	<10	<10	<10	<10	<10	<10
1.10	343-345	TP305	42	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1.40	430-432	BH100	43														
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1.80	151-153	BH103	47	<10	<10	<10	<10	<10	112.79	544.62	<10	<10	<10	<10	<10	<10	<10
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2.00	124-126	WS214	49														
2.00	175-177	WS204	50														
2.00	259-261	WS203	51	<10	<10	<10	<10	<10	245.25	602.31	<10	<10	<10	<10	<10	<10	<10
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2.00	310-312	TP302	53														
2.00	346-348	TP305	54														
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2.00	370-372	WS206	56														
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2.00	547-549	WS208	60														
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2.00	595-597	WS216	62														
2.00	732-734	WS211	63	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
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2.50	154-156	BH103	66														
2.50	205-207	WS205	67														
2.50	400-402	BH104	68														
2.50	433-435	BH100	69														
3.00	10-12	WS200	70														
3.00	31-33	WS201	71														
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3.00	235-237	WS202	73	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.00	262-264	WS203	74														
3.00	298-300	TP301	75	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.00	313-315	TP302	76	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.00	325-327	TP303	77														
3.00	337-339	TP304	78														
3.00	349-351	TP305	79														
3.00	361-363	TP306	80														
3.00	373-375	WS206	81	<10	<10	<10	<10	<10	326.07	921.49	<10	<10	<10	<10	<10	<10	<10
3.00	457-459	BH105	82														
3.00	550-552	WS208	83	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.00	598-600	WS216	84	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3.20	403-405	BH104	85														
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4.00	103-105	WS215	88	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.00	130-132	WS214	89	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.00	181-183	WS204	90														
4.00	265-267	WS203	91	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.00	376-378	WS206	92	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.00	418-420	TP305	93														
4.00	460-462	BH105	94														
4.00	475-477	WS207	95	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.00	526-528	WS213	96														
4.00	601-603	WS216	97														
4.00	711-713	WS210	98	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4.20	415-417	TP304	99														
4.50	442-444	BH100	100														
4.60	160-162	BH103	101	<10	<10	<10	<10	<10	35970.46	48857.06	<10	<10	<10	<10	<10	<10	<10
5.00	16-18	WS200	102														
5.00	184-186	WS204	103	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5.00	214-216	WS205	104														
5.00	268-270	WS203	105														
5.00	379-381	WS206	106	<10	<10	<10	<10	<10	91.76	576.60	<10	<10	<10	<10	<10	<10	<10
5.00	409-411	BH104	107														
5.00	463-465	BH105	108	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
5.00	502-504	WS212	109	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
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5.50	163-165	BH103	111														
6.00	19-21	WS200	112	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
6.00	40-42	WS201	113	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
6.00	136-138	WS214	114														
6.00	217-219	WS205	115	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
6.00	244-246	WS202	116	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
6.00	382-384	WS206	117														
6.00	607-609	WS216	118														
6.00	744-746	WS211	119	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
6.90	636-638	WS208	120	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
7.00	112-114	WS215	121														
7.00	190-192	WS204	122	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
7.00	508-510	WS212	123														
7.00	535-537	WS213	124														
7.00	610-612	WS216	125														
7.00	720-722	WS210	126	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8.00	67-69	BH101	127														
8.00	223-225	WS205	128														
8.00	250-252	WS202	129	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8.00	511-513	WS212	130														
8.00	613-615	WS216	131	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8.00	632	BH104	132														
8.50	626-628	BH100	133														
9.00	633-635	BH105	134														
10.00	629-631	BH100	135	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10.10	166-168	BH103	136														
11.80	73-75	BH101	137	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SGV commercial (SOM 6%)																	
CL:AIRE GAC commercial (SOM 1%)														22000			
CL:AIRE GAC commercial (SOM 2.5%)														53000			
CL:AIRE GAC commercial (SOM 6%)														120000			
S4UL commercial (SOM 1%)											110000						
S4UL commercial (SOM 2.5%)											120000						
S4UL commercial (SOM 6%)											120000						

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Made Ground
Fill
Concrete
Boulder Clay
Sand

Laboratory Ref Number	Date	Sample Ref	Depth m bgl	METALS															INORGANICS
Method Detection Limit				<2.5ug/l	<12ug/l	<0.5ug/l	<0.03mg/l	<10ug/l	<1ug/l	<7ug/l	<20ug/l		<5ug/l	<1ug/l	<0.6ug/l	<2ug/l	<3ug/l	<1ug/l	<3ug/l
				Dissolved Arsenic Low Level	Dissolved Boron Low Level	Dissolved Cadmium Low Level	Chromium VI	Dissolved Chromium Low Level	Cobalt (Dissolved)	Dissolved Copper Low Level	Iron (Dissolved)	Manganese (Dissolved)	Dissolved Mercury Low Level	Molybdenum (Dissolved)	Dissolved Lead Low Level	Dissolved Nickel Low Level	Dissolved Selenium Low Level	Vanadium (Dissolved)	Dissolved Zinc Low Level
				ug/l	ug/l	ug/l	ug/l	ug/l	µg/l	ug/l	µg/l	µg/l	ug/l	µg/l	ug/l	ug/l	ug/l	ug/l	ug/l
Perched groundwater 2009																			
643-646		BH101 spipe	2.95	6.5	156	<0.5	<0.03	<1.5		<7			<0.6		<5	3	<3		<3
651-654		BH102 spipe	2.22	7.6	72	<0.5	<0.03	<1.5		<7			<0.6		<5	<2	<3		<3
663-666		BH103 piezo	2.05	41.1	172	<0.5	<0.03	<1.5		70			1.2		7	23	<3		<3
675-678		BH105 piezo	6.35	6.4	167	<0.5	<0.03	3.6		<7			<0.6		7	22	<3		30
679-682		WS202	4.5	10.5	728	<0.5	<0.03	<1.5		<7			<0.6		<5	5	<3		<3
683-686		WS204	3.6	17.5	1249	<0.5	<0.03	<1.5		<7			<0.6		11	9	<3		17
687-690		WS206	4.9	5	222	<0.5	<0.03	<1.5		13			<0.6		<5	9	<3		4
691-694		WS207	5.8	3.6	121	<0.5	<0.03	<1.5		<7			<0.6		<5	3	<3		5
695-698		WS215	3.25	3.1	69	<0.5	<0.03	<1.5		7			<0.6		<5	2	<3		11
Perched groundwater 2015																			
	21/09/2015	01OB01		4		< 0.080	< 20	2.2	< 1.0	2	< 20	200	< 0.50	5.9	< 1.0	1.9	1.5	2.0	3.8
	24/09/2015	01OB02		21		0.083	< 20	7	1.9	12	< 20	720	1.1	15.0	11	8.6	3.9	9.2	28
	28/09/2015	01OB04		5		< 0.080	< 20	7	1.5	< 1.0	< 20	230	< 0.50	5.2	2	9.9	1.0	8.8	8.9
	30/09/2015	01OB05		33		< 0.080	< 20	< 1.0	1.2	< 1.0	90	240	< 0.50	4.4	< 1.0	4.4	3.2	< 1.0	2.4
	02/10/2015	01OB06																	
	30/09/2015	01OB07		11		< 0.080	< 20	< 1.0	< 1.0	< 1.0	< 20	680	< 0.50	3.8	< 1.0	2.7	2.3	1.8	< 1.0
	25/11/2015	01OB09		15		< 0.080	< 20	4.5	< 1.0	< 1.0	< 20	14	< 0.50	1.9	< 1.0	2.9	1.4	35	4.5
	25/11/2015	01OBBH101		4.2		< 0.080	< 20	1.7	< 1.0	1.8	< 20	260	< 0.50	4.0	< 1.0	2.4	< 1.0	5.6	5.4
	25/11/2015	01OBBH102		2.7		< 0.080	< 20	2.6	1.1	1.2	< 20	350	< 0.50	2.4	< 1.0	2.7	2.8	< 1.0	6.2
	25/11/2015	01OBWS200		< 1.0		< 0.080	< 20	1	< 1.0	3.3	< 20	4	5.5	2	1.5	< 1.0	< 1.0	9.8	< 20
	25/11/2015	01OBWS202		3.6		< 0.080	< 20	5.0	1.7	3.3	< 20	290	< 0.50	9.6	< 1.0	5.3	6.6	2.5	20
	25/11/2015	01OBWS204																	
	27/11/2015	01OBWS206		8.0		0.18	< 20	3.0	< 1.0	3.4	< 20	44	< 0.50	22	< 1.0	3.2	2.4	10	11
	23/11/2015	01OBDG02		1.5		< 0.080	< 20	8.1	< 1.0	5.6	6.8	3	< 20	3.9	1.9	1.3	< 1.0	6.8	3.5
Sandstone aquifer 2009																			
639-642		BH100	6.5	9	61	<0.5	<0.03	8.9		<7			<0.6		6	48	<3		35
647-650		BH101 piezo	5.53	8.9	363	<0.5	<0.03	<1.5		<7			<0.6		15	3	<3		<3
655-658		BH102 piezo	11.9	4.4	92	<0.5	<0.03	<1.5		<7			<0.6		5	8	<3		4
659-662		BH103 spipe	11.03	11.5	73	<0.5	<0.03	<1.5		13			0.7		<5	5	<3		<3
667-670		BH104	11.85	3.9	54	<0.5	<0.03	14.2		<7			<0.6		<5	20	<3		<3
671-674		BH105 spipe	12.9	6.4	76	<0.5	<0.03	7.2		<7			<0.6		<5	22	<3		19
Sandstone aquifer 2015/2016																			
	23/09/2015	01SS01		3.8		1.1	< 20	5.4	1.5	1.9	< 20	880	0.94	8.0	1.4	2.4	5.1	2.9	7.1
	08/09/2016	02SS01		1.7		< 0.080	< 20	< 1.0	< 1.0	3.0	31	1.7	< 0.50	42	< 1.0	< 1.0	1.2	4.0	< 1.0
	24/09/2015	01SS02		1.2		0.2	<20	1.5	< 1.0	18.0	<20	16	1.20	2.0	1.8	2.7	2.2	2.1	28.0
	08/09/2016	02SS02		2.5		< 0.080	< 20	4.9	< 1.0	1.8	450	98	< 0.50	92	1.1	< 1.0	3.1	2.6	3.0
	30/09/2015	01SS04		4.9		< 0.080	< 20	< 1.0	1.8	< 1.0	< 20	30	< 0.50	8.2	< 1.0	4.9	2.4	1.9	6.9
	09/09/2016	01SS05		1.6		< 0.080	<20	7.5	< 1.0	< 1.0	71	17	< 0.50	2.3	< 1.0	< 1.0	< 1.0	4.3	< 1.0
	09/09/2016	01SS06		< 1.0		< 0.080	<20	< 1.0	< 1.0	< 1.0	54	48	< 0.50	3	< 1.0	< 1.0	1.5	3.4	1.4
	09/09/2016	01SS07		12		< 0.080	<20	7.8	< 1.0	1.3	150	260	< 0.50	3.6	< 1.0	3.5	2.1	11	1.8
	31/08/2016	01SS09		27		< 0.080	<20	< 1.0	< 1.0	< 1.0	290	430	< 0.50	1.4	< 1.0	1.8	6.0	2.2	7.5
	31/08/2016	01SS11		8.3		< 0.080	< 20	6.2	< 1.0	< 1.0	310	540	< 0.50	< 1.0	< 1.0	2.3	< 1.0	2.2	2.3
	31/08/2016	01SSBH100		1.9		< 0.080	< 20	12.0	< 1.0	1.6	230	1200	< 0.50	< 1.0	< 1.0	4.9	3.2	3.6	8.8
	31/08/2016	01SSDG01		35		< 0.080	< 20	4.2	2.1	1.1	1400	56	7.3	22	< 1.0	13	9.6	100	9.2
River Lagan 2015																			
	23/11/2015	01Lag01		4.0		< 0.080	< 20	6.8	1.8	3.9	30	1700	< 0.50	37	< 1.0	6.1	4.3	3.7	23
	23/11/2015	01Lag02		2.9		< 0.080	< 20	7.2	1.7	4.0	50	1700	< 0.50	36	< 1.0	5.9	4.2	3.6	23
	23/11/2015	01LAGBSOF.		< 1.0		< 0.080	< 20	5.5	< 1.0	2.9	20	2.7	0.88	1.3	< 1.0	1.3	1.2	3.7	11
	23/11/2015	01Lag03		1.2		< 0.080	< 20	11	< 1.0	5.2	<20	11	0.59	1.6	< 1.0	1.8	6.6	4.6	9.8
WHO Health 2011				10	2400	3		50		2000			6		10	70	40		
Water Framework Directive NI (2015) Rivers freshwater lakes				50		<0.08 - 0.25	3.4	4.7		1	0.001	123	0.05		7.2	20			11.9
UK Drinking Water Standard 2010				10	1000	5		50		2			1		10	20	10		
Atkins WSV Commercial													428						

* Limited data due to very low water levels and very slow recharge rate
[a] Sum of Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene

Test Locations within or adjacent to Site C

Laboratory Ref Number	Date	Sample Ref	Depth m bgl	pH	ORP	Conductivity µS/cm	Total Organic Carbon	Dissolved Oxygen	Glycols	Chloride	Ammoniacal Nitrogen	Sulphate	Total Cyanide	Cyanide (Free)	Resorcinol	Phenol	Cresols	Xylenols	1-Naphthol	Trimethylphenols	Total Phenols
Method Detection Limit				napH Units					<0.1mg/l				<0.05mg/l	<0.05mg/l	<0.005mg/l	<0.005mg/l	<0.005mg/l	<0.005mg/l	<0.005mg/l	<0.005mg/l	<0.01mg/l
				pH Units	mv	µS/cm	mg/l		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Perched groundwater 2009																					
643-646		BH101 spipe	2.95	8.15									0.10								<0.01
651-654		BH102 spipe	2.22	8.57									0.56								<0.01
663-666		BH103 piezo	2.05	10.34									0.38								46.00
675-678		BH105 piezo	6.35	7.78									<0.05								<0.01
679-682		WS202	4.5	8.12									0.99								<0.01
683-686		WS204	3.6	8.04									<0.05								<0.01
687-690		WS206	4.9	8.43									0.67								0.47
691-694		WS207	5.8	8.17									<0.05								0.27
695-698		WS215	3.25	8.37									<0.05								<0.01
Perched groundwater 2015																					
	21/09/2015	01OB01		6.91	-274	987	6.7	0.36	< 0.10	170	1	80	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	24/09/2015	01OB02		7	-230	1238	7.9	0.00	< 0.10	230	8	900	0.10	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	28/09/2015	01OB04		7.14	-294	771	12.0	0.08	< 0.10	88	4	240	0.32	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	30/09/2015	01OB05		6.55	-278	949	37.0	0.91	< 0.10	220	11	72	< 0.050	< 0.050	< 0.0050	0.05	0.18	< 0.0050	< 0.0050	< 0.0050	0.23
	02/10/2015	01OB06		7.93	-213	645		3.81	*												
	30/09/2015	01OB07		6.59	-252	855	16.0	0.22	< 0.10	230	1	24	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	25/11/2015	01OB09		9.52	-318	671	31	0.52	< 0.10	130	16	61	0.37	< 0.050	0.47	0.95	0.75	0.80	< 0.0050	0.80	3.8
	25/11/2015	01OBBH101		7.23	-137	838	9.4	2.17	< 0.10	16	0.93	110	< 0.050	< 0.050	< 0.0050	< 0.0050	0.010	< 0.0050	< 0.0050	< 0.0050	< 0.030
	25/11/2015	01OBBH102					11		< 0.10	440	14	73	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	25/11/2015	01OBWS200		7.03	-138	936	6.9	2.40	< 0.10	13	0.41	21	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	25/11/2015	01OBWS202		7.19	-190	3277	12	1.47	< 0.10	670	3.5	690	0.52	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	25/11/2015	01OBWS204		6.69	-156	3557		1.52	< 0.10												
	27/11/2015	01OBWS206		8.18	-232.2	3619	8.1	1.48	< 0.10	110	4.4	280	0.10	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	23/11/2015	01OBDG02					15		< 0.10	580	0.37	110	0.28	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
Sandstone aquifer 2009																					
639-642		BH100	6.5	7.94									<0.05								<0.01
647-650		BH101 piezo	5.53	8.78									0.06								<0.01
655-658		BH102 piezo	11.9	7.74									2.60								<0.01
659-662		BH103 spipe	11.03	9.27									0.20								11.50
667-670		BH104	11.85	7.87									<0.05								0.02
671-674		BH105 spipe	12.9	7.78									<0.05								<0.01
Sandstone aquifer 2015/2016																					
	23/09/2015	01SS01		6.96	-282	875	3.2	0.00	< 0.10	250	0.11	100	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	08/09/2016	02SS01		7.28	89	350	12	0.23	< 0.10	190	0.40	40	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	24/09/2015	01SS02		7.17	-234	705	6.2	0.00	2.2	32	0.31	82	< 0.050	< 0.050	< 0.0050	0.07	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.07
	08/09/2016	02SS02		7.59	-34	1095	14	0.00	< 0.10	11	0.22	38	< 0.050	< 0.050	< 0.0050	0.096	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.096
	30/09/2015	01SS04		8.4	-367	891	13.0	0.00	< 0.10	150	32.00	350	0.37	< 0.050	< 0.0050	0.05	0.05	0.04	< 0.0050	0.03	0.17
	09/09/2016	01SS05					3.9		< 0.10	54	0.036	31	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	09/09/2016	01SS06		7.2	-115	550	3.4	0.00	< 0.10	75	0.059	65	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	09/09/2016	01SS07		6.85	-205	1700	12		< 0.10	300	4.4	47	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	31/08/2016	01SS09		6.92	-273	1240	50		< 0.10	130	12	120	0.38	< 0.050	< 0.0050	0.089	2.5	2.0	< 0.0050	0.20	4.7
	31/08/2016	01SS11		7.06	-4.08	950	18.0	0.00	< 0.10	35	1.20	150	0.43	< 0.050	< 0.0050	0.019	0.11	0.12	< 0.0050	< 0.0050	0.25
	31/08/2016	01SSBH100				2610	6.3		< 0.10	520	0.20	470	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	31/08/2016	01SSDG01		7.9	-187	3130	95		< 0.10	430	18	310	2.1	< 0.050	< 0.0050	13	8.7	5.9	< 0.0050	0.25	28
River Lagan 2015																					
	23/11/2015	01Lag01		8.7	-165	2071	16	13.48	< 0.10	420	4.1	750	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	23/11/2015	01Lag02		8.69	-184	2159	17	6.21	< 0.10	410	3.8	730	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	23/11/2015	01LAGBSOF.		7.34	-278	3895	14	5.87	< 0.10	140	1.4	69	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
	23/11/2015	01Lag03		7.88	-236	2816	17	9.36	< 0.10	550	0.93	110	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.030
WHO Health 2011																					
Water Framework Directive NI (2015) Rivers freshwater lakes														0.001		0.0077					
UK Drinking Water Standard 2010													0.05								
Atkins WSV Commercial																269000					

* Limited data due to very low water levels and very slow recharge
[a] Sum of Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene

Test Locations within or adjacent to Site C

Laboratory Ref Number	Date	Sample Ref	Depth m bgl	Sulphide	Free Sulphur	Thiocyanate	Calcium	Potassium	Magnesium	Sodium	PAHs	Naphthalene	Acenaphthylene	acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene
Method Detection Limit				<0.1mg/l	<0.05mg/l	<0.05mg/l						<0.01ug/l	<0.01ug/l	<0.01ug/l	<0.01ug/l	<0.01ug/l	<0.01ug/l	<0.01ug/l	<0.01ug/l	<0.01ug/l	<0.01ug/l
				mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Perched groundwater 2009																					
643-646		BH101 spipe	2.95	<0.1	<0.05	<0.05						<0.1	2.57	4.28	<0.07	<0.07	<0.08	1.5	1.16	<0.09	<0.1
651-654		BH102 spipe	2.22	<0.1	<0.05	0.13						<0.1	<0.08	<0.1	<0.07	<0.07	<0.08	<0.09	<0.12	<0.09	<0.1
663-666		BH103 piezo	2.05	<0.1	<0.05	9.40						3017	35.4	108.54	58.07	100	21.84	14.74	9.03	1.22	0.92
675-678		BH105 piezo	6.35	<0.1	<0.05	<0.05						12.94	<0.08	<0.1	<0.07	<0.07	<0.08	<0.09	<0.12	<0.09	<0.1
679-682		WS202	4.5	<0.1	<0.05	33.00						<0.1	<0.08	<0.1	<0.07	<0.07	<0.08	<0.09	<0.12	<0.09	<0.1
683-686		WS204	3.6	<0.1	<0.05	<0.05						<0.1	<0.08	<0.1	<0.07	<0.07	<0.08	<0.09	<0.12	<0.09	<0.1
687-690		WS206	4.9	<0.1	<0.05	3.10						<0.5	0.52	0.82	<0.07	<0.07	<0.08	<0.09	<0.12	<0.09	<0.1
691-694		WS207	5.8	<0.1	<0.05	23.00						5939.48	140.53	29.97	43.69	54.26	11.18	4.41	2.45	<0.5	<0.5
695-698		WS215	3.25	<0.1	<0.05	<0.05						<0.1	<0.08	<0.1	<0.07	<0.07	<0.08	<0.09	<0.12	<0.09	<0.1
Perched groundwater 2015																					
	21/09/2015	01OB01				< 0.50	52	10	29	190		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	24/09/2015	01OB02				< 0.50	210	21	58	260		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	28/09/2015	01OB04				< 0.50	170	18	24	89		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	30/09/2015	01OB05				< 0.50	110	23	12	140		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	02/10/2015	01OB06																			
	30/09/2015	01OB07				< 0.50	88	14	20	130		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	25/11/2015	01OB09				0.57	33	27	1.7	64		38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	25/11/2015	01OBBH101				< 0.50	120	12	33	37		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	25/11/2015	01OBBH102				< 0.50	200	29	66	220		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	25/11/2015	01OBWS200				< 0.50	100	12	30	96		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	25/11/2015	01OBWS202				16	310	17	66	280		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	25/11/2015	01OBWS204																			
	27/11/2015	01OBWS206				< 0.50	65	14	29	220		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	23/11/2015	01OBDG02				2.4	60	16	44	280		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Sandstone aquifer 2009																					
639-642		BH100	6.5	<0.1	<0.05	<0.05						1.91	4.32	1.06	1.95	3.94	0.94	<0.09	<0.12	<0.09	<0.1
647-650		BH101 piezo	5.53	<0.1	<0.05	<0.05						<0.1	<0.08	<0.1	<0.07	<0.07	<0.08	<0.09	<0.12	<0.09	<0.1
655-658		BH102 piezo	11.9	<0.1	<0.05	3.90						2908	15.52	6.74	8.19	13.28	2.57	2.56	1.4	<0.09	<0.1
659-662		BH103 spipe	11.03	<0.1	<0.05	3.70						1277	9.31	22.39	11.88	17.04	3.58	2.15	1.26	<0.09	<0.1
667-670		BH104	11.85	<0.1	<0.05	<0.05						9.37	<0.08	0.57	<0.07	0.87	<0.08	<0.09	<0.12	<0.09	<0.1
671-674		BH105 spipe	12.9	<0.1	<0.05	0.27						<0.1	<0.08	<0.1	<0.07	<0.07	<0.08	<0.09	<0.12	<0.09	<0.1
Sandstone aquifer 2015/2016																					
	23/09/2015	01SS01				< 0.50	53	2.7	22	170		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	08/09/2016	02SS01				< 0.50	26	3.9	11	30		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	24/09/2015	01SS02				< 0.50	47	3.9	9	20		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	08/09/2016	02SS02				< 0.50	72	1.7	31	78		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	30/09/2015	01SS04				1.3	120	25.0	10	95		470	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	09/09/2016	01SS05				< 0.050	46	2.2	18	62		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	09/09/2016	01SS06				< 0.050	47	1.9	23	70		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	09/09/2016	01SS07				< 0.050	130	32	27	310		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	31/08/2016	01SS09				34	63	3.9	50	70		590	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	31/08/2016	01SS11				2	120	5.6	26	40		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	31/08/2016	01SSBH100				< 0.50	300	7.4	180	620		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	31/08/2016	01SSDG01				14	130	19	14	230		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
River Lagan 2015																					
	23/11/2015	01Lag01				< 0.50	150	21	38	280		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	23/11/2015	01Lag02				< 0.50	150	21	37	270		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	23/11/2015	01LAGBSOF.				< 0.50	60	5.3	18	62		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
	23/11/2015	01Lag03				< 0.50	55	13	38	240		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
WHO Health 2011																					
Water Framework Directive NI (2015) Rivers freshwater lakes												2.4					0.1	0.1			
UK Drinking Water Standard 2010																					
Atkins WSV Commercial												99800									

* Limited data due to very low water levels and very slow recharge
[a] Sum of Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene

Test Locations within or adjacent to Site C

Laboratory Ref Number	Date	Sample Ref	Depth m bgl	Benzo(b)+Benzo(k) fluoranthene	Benzo(a)pyrene	Indeno(123cd)pyrene	Dibenzo(ah)anthracene	Benzo(ghi)perylene	Total Aqueous 16 EPA PAHs		Aliphatics EC C5-C6	Aliphatics EC>C6-C8	Aliphatics EC>C8-C10	Aliphatics EC>C10-C12	Aliphatics EC>C12-C16	Aliphatics EC>C16-C21	Aliphatics EC>C21-C35	Aliphatics EC>C35-C44	Total Aliphatics	Aromatics EC C6-C7	Aromatics EC>C7-C8
Method Detection Limit				<0.03ug/l	<0.01ug/l	<0.01ug/l	<0.01ug/l	<0.01ug/l	<2.0ug/l		<5ug/l	<5ug/l	<5ug/l	<10ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<0.1ug/l	<50 ug/l	<5ug/l	<5ug/l
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Perched groundwater 2009																					
643-646		BH101 spipe	2.95	<0.26	<0.12	<0.1	<0.1	<0.12	9.51		<5	<5	<5	<10	<10	40	<5		40	<5	<5
651-654		BH102 spipe	2.22	<0.26	<0.12	<0.1	<0.1	<0.12	<1.60		<5	<5	<5	<10	<10	<10	<10		<10	<5	<5
663-666		BH103 piezo	2.05	<0.26	<0.12	<0.1	<0.1	<0.12	3366.76		2271	1489	1190	90	<10	<10	<10		5040	<5	<5
675-678		BH105 piezo	6.35	<0.26	<0.12	<0.1	<0.1	<0.12	12.94		490	<5	1463	270	100	183	3008		5515	<5	5
679-682		WS202	4.5	<0.26	<0.12	<0.1	<0.1	<0.12	<1.60		<5	5	9	<10	<10	<10	<10		14	<5	7
683-686		WS204	3.6	<0.26	<0.12	<0.1	<0.1	<0.12	<1.60		<5	<5	<5	<10	<10	<10	<10		<10	<5	<5
687-690		WS206	4.9	<0.26	<0.12	<0.1	<0.1	<0.12	<1.60		33	105	50	<10	<10	<10	<10		188	107	7
691-694		WS207	5.8	<1	<0.5	<0.5	<0.5	<0.5	6225.97		13	4029	1784	190	<10	<10	<10		6016	3751	2604
695-698		WS215	3.25	<0.26	<0.12	<0.1	<0.1	<0.12	<1.60		<5	<5	<5	<10	<10	<10	<10		<10	<5	<5
Perched groundwater 2015																					
	21/09/2015	01OB01		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	24/09/2015	01OB02		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	0.3	22	< 0.10	< 0.10	< 0.10	22	< 0.10	< 0.10
	28/09/2015	01OB04		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	30/09/2015	01OB05		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	19
	02/10/2015	01OB06																			
	30/09/2015	01OB07		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	100	1500	8600	11000	3600	< 0.10	25000	54	< 0.10
	25/11/2015	01OB09		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	38		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	69	5.3
	25/11/2015	01OBBH101		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	25/11/2015	01OBBH102		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	25/11/2015	01OBWS200		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	25/11/2015	01OBWS202		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	25/11/2015	01OBWS204																			
	27/11/2015	01OBWS206		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	23/11/2015	01OBDG02		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
Sandstone aquifer 2009																					
639-642		BH100	6.5	<0.26	<0.12	<0.1	<0.1	<0.12	14.12		654	28	698	293	158	259	3245		5336	<5	<5
647-650		BH101 piezo	5.53	<0.26	<0.12	<0.1	<0.1	<0.12	<1.60		<5	<5	<5	<10	<10	<10	<10		<10	<5	<5
655-658		BH102 piezo	11.9	<0.26	<0.12	<0.1	<0.1	<0.12	2958.26		368	2104	1379	40	<10	<10	<10		3891	<5	<5
659-662		BH103 spipe	11.03	<0.26	<0.12	<0.1	<0.1	<0.12	1344.61		50	2218	665	40	<10	<10	<10		2974	<5	<5
667-670		BH104	11.85	<0.26	<0.12	<0.1	<0.1	<0.12	10.81		600	151	340	168	126	204	2305		3893	160	<5
671-674		BH105 spipe	12.9	<0.26	<0.12	<0.1	<0.1	<0.12	<1.60		289	6	672	36	18	29	458		1507	<5	<5
Sandstone aquifer 2015/2016																					
	23/09/2015	01SS01		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	08/09/2016	02SS01		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	24/09/2015	01SS02		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	4.4	4.5	< 0.10	< 0.10	< 0.10	< 0.10	8.9	9600	6.7
	08/09/2016	02SS02		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	120	< 0.10	19	< 0.10	24	< 0.10	< 0.10	160	< 0.10	< 0.10
	30/09/2015	01SS04		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	470		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	6500	4800
	09/09/2016	01SS05		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	09/09/2016	01SS06		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	09/09/2016	01SS07		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	31/08/2016	01SS09		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	590		< 0.10	650	1800	< 0.10	< 0.10	< 0.10	1700	< 0.10	4100	4200	43
	31/08/2016	01SS11		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	26	< 0.10	< 0.10	< 0.10	< 0.10	43	< 0.10	69	< 0.10	140
	31/08/2016	01SSBH100		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	31/08/2016	01SSDG01		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	55	48	5.4	4.5	7.5	800	53	970	1000	73
River Lagan 2015																					
	23/11/2015	01Lag01		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	23/11/2015	01Lag02		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	23/11/2015	01LAGBSOF.		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
	23/11/2015	01Lag03		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 2.0		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 0.10	< 0.10
WHO Health 2011					0.7																
Water Framework Directive NI (2015) Rivers freshwater lakes				0.03	0.05	0.002[a]		0.002[a]													
UK Drinking Water Standard 2010				0.1	0.01	0.1		0.1													
Atkins WSV Commercial											198000	144000	2900	2230						8460	9090000

HYDROCARBONS

* Limited data due to very low water levels and very slow recharge
[a] Sum of Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene

Test Locations within or adjacent to Site C

Laboratory Ref Number	Date	Sample Ref	Depth m bgl	Aromatics EC>C8-C10	Aromatics EC>C10-C12	Aromatics EC>C12-C16	Aromatics EC>C16-C21	Aromatics EC>C21-C35	Aromatics EC>C35-C44	Total Aromatics	TPH		Dichlorodifluoromethane	MTBE	Chloromethane	Vinyl Chloride	Bromomethane	Chloroethane	Trichlorofluoromethane	1,1-Dichloroethene	Dichloromethane
Method Detection Limit				<5ug/l	<10ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<0.1	<10 ug/l	<10 ug/l		<2 ug/l	<3 ug/l	<3 ug/l	<2 ug/l	<1 ug/l	<3 ug/l	<3 ug/l	<3 ug/l	<3 ug/l
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Perched groundwater 2009																					
643-646		BH101 spipe	2.95	<5	51	179	<5	<5		230	270		<2	<2	<3	<2	<1	<3	<3	<3	<3
651-654		BH102 spipe	2.22	<5	<10	<10	<10	<10		<10	<10		<2	<2	<3	<2	<1	<3	<3	<3	<3
663-666		BH103 piezo	2.05	<5	9013	8157	1080	81		18331	23371		<2	<2	<3	<2	<1	<3	<3	<3	<3
675-678		BH105 piezo	6.35	7	18	<5	<5	1825		1855	7370		<2	<2	<3	<2	<1	<3	<3	<3	<3
679-682		WS202	4.5	19	<10	<10	<10	<10		26	40		<2	<2	<3	<2	<1	<3	<3	<3	<3
683-686		WS204	3.6	<5	<10	<10	<10	<10		<10	<10		<2	<2	<3	<2	<1	<3	<3	<3	<3
687-690		WS206	4.9	31	118	272	<5	<5		535	723		<2	<2	<3	<2	<1	<3	<3	<3	<3
691-694		WS207	5.8	2030	12710	13472	1897	152		36616	42632		<2	<2	<3	<2	<1	<3	<3	<3	<3
695-698		WS215	3.25	<5	<10	<10	<10	<10		<10	<10		<2	<2	<3	<2	<1	<3	<3	<3	<3
Perched groundwater 2015																					
	21/09/2015	01OB01		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	24/09/2015	01OB02		< 0.10	8.6	41	5.9	< 0.10	< 0.10	55	77		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	28/09/2015	01OB04		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	30/09/2015	01OB05		9.8	83	51	38	3.5	< 0.10	200	200		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	02/10/2015	01OB06											< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	30/09/2015	01OB07		34	480	4200	6500	1700	< 0.10	13000	38000		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	25/11/2015	01OB09		52	130	44	< 0.10	< 0.10	< 0.10	300	300		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	25/11/2015	01OBBH101		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10	VOCs	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	25/11/2015	01OBBH102		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	25/11/2015	01OBWS200		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	25/11/2015	01OBWS202		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	25/11/2015	01OBWS204																			
	27/11/2015	01OBWS206		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	23/11/2015	01OBDG02		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
Sandstone aquifer 2009																					
639-642		BH100	6.5	<5	75	169	132	1505		1881	7217		<2	<2	<3	<2	<1	<3	<3	<3	<3
647-650		BH101 piezo	5.53	<5	<10	<10	<10	<10		<10	<10		<2	<2	<3	<2	<1	<3	<3	<3	<3
655-658		BH102 piezo	11.9	<5	6343	1030	197	<5		7570	11461		<2	<2	<3	<2	<1	<3	<3	<3	<3
659-662		BH103 spipe	11.03	<5	4005	3595	308	<5		7908	10882		<2	<2	<3	<2	<1	<3	<3	<3	<3
667-670		BH104	11.85	11	74	55	74	1656		2029	5922		<2	<2	<3	<2	<1	<3	<3	<3	<3
671-674		BH105 spipe	12.9	<5	<5	<5	<5	1511		1511	3018		<2	<2	<3	<2	<1	<3	<3	<3	<3
Sandstone aquifer 2015/2016																					
	23/09/2015	01SS01		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	08/09/2016	02SS01		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	24/09/2015	01SS02		87	350	56	1.7	< 0.10	< 0.10	10000	10000		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	08/09/2016	02SS02		< 0.10	< 0.10	4.3	4.7	95	< 0.10	100	260		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	30/09/2015	01SS04		2200	2800	330	31	< 0.10	< 0.10	17000	17000		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	09/09/2016	01SS05		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	09/09/2016	01SS06		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	09/09/2016	01SS07		120	140	85	42	4.4	< 0.10	390	400		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	31/08/2016	01SS09		4200	5500	530	< 0.10	1000	< 0.10	15000	20000		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	31/08/2016	01SS11		200	290	65	< 0.10	110	< 0.10	790	860		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	31/08/2016	01SSBH100		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	31/08/2016	01SSDG01		480	2400	1200	510	84	16	5800	6800		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
River Lagan 2015																					
	23/11/2015	01Lag01		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	23/11/2015	01Lag02		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	23/11/2015	01LAGBSOF.		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
	23/11/2015	01Lag03		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 5.0	< 10		< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.0	< 1.0	< 1.0	
WHO Health 2011																0.3					20
Water Framework Directive NI (2015) Rivers freshwater lakes																					20
UK Drinking Water Standard 2010																0.5					
Atkins WSV Commercial				96500	380000									33800000	5500	249		4180000		65600	1500000

* Limited data due to very low water levels and very slow recharge
[a] Sum of Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene

Test Locations within or adjacent to Site C

Laboratory Ref Number	Date	Sample Ref	Depth m bgl	Trans-1,2-Dichoroethene	1,1-Dichloroethane	Cis-1,2-Dichloroethene	2,2-Dichloropropane	Bromochloromethane	Chloroform	1,1,1-Trichloroethane	1,1-Dichloropropene	Carbontetrachloride	1,2-Dichloroethane	Benzene	Trichloroethene	1,2-Dichloropropane	Dibromomethane	Bromodichloromethane	Cis-1,3-Dichloropropene	Toluene	Trans-1,3-Dichloropropene
Method Detection Limit				<3 ug/l	<3 ug/l	<3 ug/l	<1 ug/l	<2 ug/l	<3 ug/l	<3 ug/l	<3 ug/l	<2 ug/l	<2 ug/l	<3 ug/l	<3 ug/l	<2 ug/l	<3 ug/l	<3 ug/l	<2 ug/l	<3 ug/l	<2 ug/l
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Perched groundwater 2009																					
643-646		BH101 spipe	2.95	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2	<3	<3	<2	<3	<3	<2	<3	<2
651-654		BH102 spipe	2.22	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2	<3	<3	<2	<3	<3	<2	<3	<2
663-666		BH103 piezo	2.05	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2	643	<3	<2	<3	<3	<2	314	<2
675-678		BH105 piezo	6.35	<3	<3	<3	<1	<2	8	<3	<3	<2	<2	<3	<3	<2	<3	<3	<2	5	<2
679-682		WS202	4.5	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2	<3	<3	<2	<3	<3	<2	<3	<2
683-686		WS204	3.6	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2	<3	<3	<2	<3	<3	<2	<3	<2
687-690		WS206	4.9	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2	112	<3	<2	<3	<3	<2	7	<2
691-694		WS207	5.8	4	<3	<3	<1	<2	<3	<3	<3	<2	<2	5270	69	<2	<3	<3	<2	3748	<2
695-698		WS215	3.25	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2	<3	<3	<2	<3	<3	<2	<3	<2
Perched groundwater 2015																					
	21/09/2015	01OB01		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	24/09/2015	01OB02		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	28/09/2015	01OB04		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	30/09/2015	01OB05		< 1.0	< 1.0	< 1.0		< 5.0	2.5	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	16	< 10
	02/10/2015	01OB06		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	30/09/2015	01OB07		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	17	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	25/11/2015	01OB09		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	12	180	< 1.0	< 1.0	< 10	< 5.0	< 10	24	< 10
	25/11/2015	01OBBH101		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	25/11/2015	01OBBH102		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	25/11/2015	01OBWS200		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	25/11/2015	01OBWS202		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	25/11/2015	01OBWS204																			
	27/11/2015	01OBWS206		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	18	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	23/11/2015	01OBDG02		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
Sandstone aquifer 2009																					
639-642		BH100	6.5	<3	<3	<3	<1	<2	7	<3	<3	<2	<2	5	<3	<2	<3	<3	<2	6	<2
647-650		BH101 piezo	5.53	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2	<3	<3	<2	<3	<3	<2	<3	<2
655-658		BH102 piezo	11.9	<3	<3	<3	<1	<2	5	<3	<3	<2	<2	696	<3	<2	<3	<3	<2	329	<2
659-662		BH103 spipe	11.03	<3	<3	<3	<1	<2	<3	<3	<3	<2	<2	1172	<3	<2	<3	<3	<2	271	<2
667-670		BH104	11.85	<3	<3	<3	<1	<2	9	<3	<3	<2	<2	216	<3	<2	<3	<3	<2	4	<2
671-674		BH105 spipe	12.9	<3	<3	<3	<1	<2	9	<3	<3	<2	<2	<3	<3	<2	<3	<3	<2	3	<2
Sandstone aquifer 2015/2016																					
	23/09/2015	01SS01		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	08/09/2016	02SS01		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	24/09/2015	01SS02		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	2800	< 1.0	< 1.0	< 10	< 5.0	< 10	2.2	< 10
	08/09/2016	02SS02		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	6000	< 1.0	< 1.0	< 10	< 5.0	< 10	5.2	< 10
	30/09/2015	01SS04		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	9100	< 1.0	< 1.0	< 10	< 5.0	< 10	9900	< 10
	09/09/2016	01SS05		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	09/09/2016	01SS06		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	09/09/2016	01SS07		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	18	< 1.0	< 1.0	< 10	< 5.0	< 10	1.1	< 10
	31/08/2016	01SS09		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	3300	< 1.0	< 1.0	< 10	< 5.0	< 10	330	< 10
	31/08/2016	01SS11		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	1900	< 1.0	< 1.0	< 10	< 5.0	< 10	220	< 10
	31/08/2016	01SSBH100		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	31/08/2016	01SSDG01		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	35000	< 1.0	< 10	< 1.0	< 5.0	< 10	260	< 10
River Lagan 2015																					
	23/11/2015	01Lag01		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	23/11/2015	01Lag02		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	23/11/2015	01LAGBSOF.		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
	23/11/2015	01Lag03		< 1.0	< 1.0	< 1.0		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 5.0	< 10	< 1.0	< 10
WHO Health 2011						50			300			4	30	10	20	40		60		700	20
Water Framework Directive NI (2015) Rivers freshwater lakes												12	10	10						74	
UK Drinking Water Standard 2010									100				3	1	10			100			
Atkins WSV Commercial				65700	1110000	54600			369000	1270000		3310	3540	8460		11100		6820		9090000	

* Limited data due to very low water levels and very slow recharge
[a] Sum of Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene

Test Locations within or adjacent to Site C

Laboratory Ref Number	Date	Sample Ref	Depth m bgl	1,1,2-Trichloroethane	Tetrachloroethene	1,3-Dichloropropane	Dibromochloromethane	1,2-Dibromoethane	Chlorobenzene	1,1,1,2-tetrachloroethane	Ethylbenzene	p/m-Xylene	o-Xylene	Styrene	Bromoform	Isopropylbenzene	1,1,2,2-Tetrachloroethane	Bromobenzene	1,2,3-Trichloropropane	Propylbenzene	2-Chlorotoluene
Method Detection Limit				<2 ug/l	<3 ug/l	<2 ug/l	<2 ug/l	<2 ug/l	<2 ug/l	<2 ug/l	<3 ug/l	<5 ug/l	<3 ug/l	<2 ug/l	<2 ug/l	<3 ug/l	<4 ug/l	<2 ug/l	<3 ug/l	<3 ug/l	<3 ug/l
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Perched groundwater 2009																					
643-646		BH101 spipe	2.95	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3	<3	<3
651-654		BH102 spipe	2.22	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3	<3	<3
663-666		BH103 piezo	2.05	<2	<3	<2	<2	<2	<2	<2	71	250	133	30	<2	<3	<4	<2	<3	<3	<3
675-678		BH105 piezo	6.35	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3	<3	<3
679-682		WS202	4.5	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3	<3	<3
683-686		WS204	3.6	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3	<3	<3
687-690		WS206	4.9	<2	<3	<2	<2	<2	<2	<2	<3	7	7	<2	<2	<3	<4	<2	<3	<3	<3
691-694		WS207	5.8	<2	<3	<2	<2	<2	<2	<2	214	1343	512	564	<2	<3	<4	<2	<3	<3	<3
695-698		WS215	3.25	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3	<3	<3
Perched groundwater 2015																					
	21/09/2015	01OB01		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	24/09/2015	01OB02		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	28/09/2015	01OB04		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	30/09/2015	01OB05		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	02/10/2015	01OB06		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	30/09/2015	01OB07		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	4.7	1.3	1.8	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	25/11/2015	01OB09		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	81	110	70	19	< 1.0	5.9		< 1.0	< 50	< 1.0	< 1.0
	25/11/2015	01OBBH101		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	25/11/2015	01OBBH102		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	25/11/2015	01OBWS200		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	25/11/2015	01OBWS202		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	25/11/2015	01OBWS204																			
	27/11/2015	01OBWS206		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	1.1	1.3	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	23/11/2015	01OBDG02		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
Sandstone aquifer 2009																					
639-642		BH100	6.5	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3	<3	<3
647-650		BH101 piezo	5.53	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3	<3	<3
655-658		BH102 piezo	11.9	<2	<3	<2	<2	<2	<2	<2	145	267	122	<2	<2	<3	<4	<2	<3	<3	<3
659-662		BH103 spipe	11.03	<2	<3	<2	<2	<2	<2	<2	42	139	72	21	<2	<3	<4	<2	<3	<3	<3
667-670		BH104	11.85	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3	<3	<3
671-674		BH105 spipe	12.9	<2	<3	<2	<2	<2	<2	<2	<3	<5	<3	<2	<2	<3	<4	<2	<3	<3	<3
Sandstone aquifer 2015/2016																					
	23/09/2015	01SS01		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	08/09/2016	02SS01		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	24/09/2015	01SS02		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	3.7	< 1.0	< 1.0	1.1		< 1.0	< 50	< 1.0	< 1.0
	08/09/2016	02SS02		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	4.0	20	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	30/09/2015	01SS04		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	370	2200	1300	< 1.0	< 1.0	6		< 1.0	< 50	4.6	< 1.0
	09/09/2016	01SS05		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	09/09/2016	01SS06		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	09/09/2016	01SS07		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	11	17	19	< 1.0	< 1.0	1.2		< 1.0	< 50	< 1.0	< 1.0
	31/08/2016	01SS09		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	100	320	260	< 1.0	< 1.0	1.8		< 1.0	< 50	< 1.0	< 1.0
	31/08/2016	01SS11		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	110	110	80	42	< 1.0	2.7		< 1.0	< 50	1.4	< 1.0
	31/08/2016	01SSBH100		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	31/08/2016	01SSDG01		< 10	< 10	< 1.0	< 10	< 10	< 5.0	< 1.0	12	17	18	10	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
River Lagan 2015																					
	23/11/2015	01Lag01		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	23/11/2015	01Lag02		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	23/11/2015	01LAGBSOF.		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
	23/11/2015	01Lag03		< 10	< 1.0	< 2.0	< 10	< 5.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 50	< 1.0	< 1.0
WHO Health 2011					40		100				300	Total 500		20	100						
Water Framework Directive NI (2015) Rivers freshwater lakes										140											
UK Drinking Water Standard 2010					10		100								100						
Atkins WSV Commercial				208000	174000		38700		1300000	96700	1250000	413000	503000	3530000	1770000	389000	650000	87700		1100000	

* Limited data due to very low water levels and very slow recharge
[a] Sum of Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene

Test Locations within or adjacent to Site C

Laboratory Ref Number	Date	Sample Ref	Depth m bgl	1,3,5-Trimethylbenzene	4-Chlorotoluene	Tert-Butylbenzene	1,2,4-Trimethylbenzene	Sec-Butylbenzene	4-Isopropyltoluene	1,4-Dichlorobenzene	1,3-Dichlorobenzene	n-Butylbenzene	1,2-Dichlorobenzene	1,2-Dibromo-3-Chloropropane	1,2,4-Trichlorobenzene	Hexachlorobutadiene	Naphthalene	1,2,3-Trichlorobenzene	SVOCs	2-Chlorophenol	2-Methylphenol
Method Detection Limit				<3 ug/l	<3 ug/l	<3 ug/l	<3 ug/l	<3 ug/l	<3 ug/l	<3 ug/l	<3 ug/l	<3 ug/l	<3 ug/l	<2 ug/l	<3 ug/l	<3 ug/l	<2 ug/l	<3 ug/l		<10 ug/l	<10 ug/l
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l		ug/l	ug/l
Perched groundwater 2009																					
643-646		BH101 spipe	2.95	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	<2	<3		<10	<10
651-654		BH102 spipe	2.22	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	<2	<3		<10	<10
663-666		BH103 piezo	2.05	38	<3	<3	114	<3	<3	<3	<3	<3	<3	<2	<3	<3	4692	<3		<10	734
675-678		BH105 piezo	6.35	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	33	<3		<10	<10
679-682		WS202	4.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	<2	<3		<10	<10
683-686		WS204	3.6	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	<2	<3		<10	<10
687-690		WS206	4.9	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	15	<3		<10	<10
691-694		WS207	5.8	104	<3	<3	248	<3	<3	<3	<3	<3	<3	<2	<3	<3	5295	<3		<10	<10
695-698		WS215	3.25	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	25	<3		<10	<10
Perched groundwater 2015																					
	21/09/2015	01OB01		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	24/09/2015	01OB02		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	28/09/2015	01OB04		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	30/09/2015	01OB05		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	02/10/2015	01OB06		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	30/09/2015	01OB07		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	25/11/2015	01OB09		18	< 1.0	< 1.0	53	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	25/11/2015	01OBBH101		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	25/11/2015	01OBBH102		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	25/11/2015	01OBWS200		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	25/11/2015	01OBWS202		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	25/11/2015	01OBWS204																			
	27/11/2015	01OBWS206		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	23/11/2015	01OBDG02		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
Sandstone aquifer 2009																					
639-642		BH100	6.5	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	<2	<3		<10	<10
647-650		BH101 piezo	5.53	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	<2	<3		<10	<10
655-658		BH102 piezo	11.9	45	<3	<3	122	<3	<3	<3	<3	<3	<3	<2	<3	<3	3768	<3		<10	<10
659-662		BH103 spipe	11.03	13	<3	<3	35	<3	<3	<3	<3	<3	<3	<2	<3	<3	1626	<3		<10	221
667-670		BH104	11.85	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	52	<3		<10	<10
671-674		BH105 spipe	12.9	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<2	<3	<3	16	<3		<10	<10
Sandstone aquifer 2015/2016																					
	23/09/2015	01SS01		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	08/09/2016	02SS01		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	24/09/2015	01SS02		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	08/09/2016	02SS02		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	30/09/2015	01SS04		87	< 1.0	< 1.0	310	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	09/09/2016	01SS05		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	09/09/2016	01SS06		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	09/09/2016	01SS07		1.5	< 1.0	< 1.0	2.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	31/08/2016	01SS09		8.1	< 1.0	< 1.0	26	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	31/08/2016	01SS11		4.3	< 1.0	< 1.0	32	< 1.0	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	31/08/2016	01SSBH100		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	31/08/2016	01SSDG01		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
River Lagan 2015																					
	23/11/2015	01Lag01		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	23/11/2015	01Lag02		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	23/11/2015	01LAGBSOF.		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
	23/11/2015	01Lag03		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 1.0	< 1.0		< 2.0			
WHO Health 2011										300			1000	1		0.6					
Water Framework Directive NI (2015) Rivers freshwater lakes															0.4			0.4			
UK Drinking Water Standard 2010																					
Atkins WSV Commercial							9830														

* Limited data due to very low water levels and very slow recharge
[a] Sum of Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene

Test Locations within or adjacent to Site C

Laboratory Ref Number	Date	Sample Ref	Depth m bgl	2-Nitrophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	4-Chloro-3-methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	2-Chloronapthalene	2-Methylnapthalene	Bis(2-ethylhexyl) phthalate	Butylbenzene phthalate	Di-n-butyl phthalate	Di-n-Octyl phthalate	Diethyl phthalate	Dimethyl phthalate	1,2-Dichlorobenzene
Method Detection Limit				<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Perched groundwater 2009																					
643-646		BH101 spipe	2.95	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
651-654		BH102 spipe	2.22	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
663-666		BH103 piezo	2.05	<10	<10	2973	<10	<10	<10	679	<10	<10	<10	452	<10	<10	<10	<10	<10	<10	<10
675-678		BH105 piezo	6.35	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
679-682		WS202	4.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
683-686		WS204	3.6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
687-690		WS206	4.9	<10	<10	12	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
691-694		WS207	5.8	<10	<10	551	<10	<10	<10	<10	<10	<10	<10	140	<10	<10	<10	<10	<10	<10	<10
695-698		WS215	3.25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Perched groundwater 2015																					
	21/09/2015	01OB01																			
	24/09/2015	01OB02																			
	28/09/2015	01OB04																			
	30/09/2015	01OB05																			
	02/10/2015	01OB06																			
	30/09/2015	01OB07																			
	25/11/2015	01OB09																			
	25/11/2015	01OBBH101																			
	25/11/2015	01OBBH102																			
	25/11/2015	01OBWS200																			
	25/11/2015	01OBWS202																			
	25/11/2015	01OBWS204																			
	27/11/2015	01OBWS206																			
	23/11/2015	01OBDG02																			
Sandstone aquifer 2009																					
639-642		BH100	6.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
647-650		BH101 piezo	5.53	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
655-658		BH102 piezo	11.9	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	152	<10	<10	<10	<10	<10	<10	<10
659-662		BH103 spipe	11.03	<10	<10	727	<10	<10	<10	240	<10	<10	<10	33	<10	<10	<10	<10	<10	<10	<10
667-670		BH104	11.85	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
671-674		BH105 spipe	12.9	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Sandstone aquifer 2015/2016																					
	23/09/2015	01SS01																			
	08/09/2016	02SS01																			
	24/09/2015	01SS02																			
	08/09/2016	02SS02																			
	30/09/2015	01SS04																			
	09/09/2016	01SS05																			
	09/09/2016	01SS06																			
	09/09/2016	01SS07																			
	31/08/2016	01SS09																			
	31/08/2016	01SS11																			
	31/08/2016	01SSBH100																			
	31/08/2016	01SSDG01																			
River Lagan 2015																					
	23/11/2015	01Lag01																			
	23/11/2015	01Lag02																			
	23/11/2015	01LAGBSOF.																			
	23/11/2015	01Lag03																			
WHO Health 2011								200				9									1000
Water Framework Directive NI (2015) Rivers freshwater lakes					4.2							0.4				7.5					
UK Drinking Water Standard 2010																					
Atkins WSV Commercial						30900000							62700								

* Limited data due to very low water levels and very slow recharge
[a] Sum of Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene

Test Locations within or adjacent to Site C

Laboratory Ref Number	Date	Sample Ref	Depth m bgl	1,2,4-Trichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Nitroaniline	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3-Nitroaniline	4-Bromophenylphenylether	4-Chloroaniline	4-Chlorophenylphenylether	4-Nitroaniline	Azobenzene	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Carbazole	Dibenzofuran	Hexachlorobenzene	Hexachlorobutadiene
Method Detection Limit				<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Perched groundwater 2009																					
643-646		BH101 spipe	2.95	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
651-654		BH102 spipe	2.22	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
663-666		BH103 piezo	2.05	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	101	<10	<10	<10
675-678		BH105 piezo	6.35	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
679-682		WS202	4.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
683-686		WS204	3.6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
687-690		WS206	4.9	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
691-694		WS207	5.8	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	189	<10	<10	<10
695-698		WS215	3.25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Perched groundwater 2015																					
	21/09/2015	01OB01																			
	24/09/2015	01OB02																			
	28/09/2015	01OB04																			
	30/09/2015	01OB05																			
	02/10/2015	01OB06																			
	30/09/2015	01OB07																			
	25/11/2015	01OB09																			
	25/11/2015	01OBBH101																			
	25/11/2015	01OBBH102																			
	25/11/2015	01OBWS200																			
	25/11/2015	01OBWS202																			
	25/11/2015	01OBWS204																			
	27/11/2015	01OBWS206																			
	23/11/2015	01OBDG02																			
Sandstone aquifer 2009																					
639-642		BH100	6.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
647-650		BH101 piezo	5.53	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
655-658		BH102 piezo	11.9	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
659-662		BH103 spipe	11.03	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	57	<10	<10	<10
667-670		BH104	11.85	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
671-674		BH105 spipe	12.9	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Sandstone aquifer 2015/2016																					
	23/09/2015	01SS01																			
	08/09/2016	02SS01																			
	24/09/2015	01SS02																			
	08/09/2016	02SS02																			
	30/09/2015	01SS04																			
	09/09/2016	01SS05																			
	09/09/2016	01SS06																			
	09/09/2016	01SS07																			
	31/08/2016	01SS09																			
	31/08/2016	01SS11																			
	31/08/2016	01SSBH100																			
	31/08/2016	01SSDG01																			
River Lagan 2015																					
	23/11/2015	01Lag01																			
	23/11/2015	01Lag02																			
	23/11/2015	01LAGBSOF.																			
	23/11/2015	01Lag03																			
WHO Health 2011						300															0.6
Water Framework Directive NI (2015) Rivers freshwater lakes				0.4																0.01	0.1
UK Drinking Water Standard 2010																					
Atkins WSV Commercial																					

* Limited data due to very low water levels and very slow recharge
[a] Sum of Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene

Test Locations within or adjacent to Site C

Laboratory Ref Number	Date	Sample Ref	Depth m bgl	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	N-nitrosodi-n-propylamine	Nitrobenzene
Method Detection Limit				<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l	<10 ug/l
				ug/l	ug/l	ug/l	ug/l	ug/l
Perched groundwater 2009								
643-646		BH101 spipe	2.95	<10	<10	<10	<10	<10
651-654		BH102 spipe	2.22	<10	<10	<10	<10	<10
663-666		BH103 piezo	2.05	<10	<10	<10	<10	<10
675-678		BH105 piezo	6.35	<10	<10	<10	<10	<10
679-682		WS202	4.5	<10	<10	<10	<10	<10
683-686		WS204	3.6	<10	<10	<10	<10	<10
687-690		WS206	4.9	<10	<10	<10	<10	<10
691-694		WS207	5.8	<10	<10	<10	<10	<10
695-698		WS215	3.25	<10	<10	<10	<10	<10
Perched groundwater 2015								
	21/09/2015	01OB01						
	24/09/2015	01OB02						
	28/09/2015	01OB04						
	30/09/2015	01OB05						
	02/10/2015	01OB06						
	30/09/2015	01OB07						
	25/11/2015	01OB09						
	25/11/2015	01OBBH101						
	25/11/2015	01OBBH102						
	25/11/2015	01OBWS200						
	25/11/2015	01OBWS202						
	25/11/2015	01OBWS204						
	27/11/2015	01OBWS206						
	23/11/2015	01OBDG02						
Sandstone aquifer 2009								
639-642		BH100	6.5	<10	<10	<10	<10	<10
647-650		BH101 piezo	5.53	<10	<10	<10	<10	<10
655-658		BH102 piezo	11.9	<10	<10	<10	<10	<10
659-662		BH103 spipe	11.03	<10	<10	<10	<10	<10
667-670		BH104	11.85	<10	<10	<10	<10	<10
671-674		BH105 spipe	12.9	<10	<10	<10	<10	<10
Sandstone aquifer 2015/2016								
	23/09/2015	01SS01						
	08/09/2016	02SS01						
	24/09/2015	01SS02						
	08/09/2016	02SS02						
	30/09/2015	01SS04						
	09/09/2016	01SS05						
	09/09/2016	01SS06						
	09/09/2016	01SS07						
	31/08/2016	01SS09						
	31/08/2016	01SS11						
	31/08/2016	01SSBH100						
	31/08/2016	01SSDG01						
River Lagan 2015								
	23/11/2015	01Lag01						
	23/11/2015	01Lag02						
	23/11/2015	01LAGBSOF.						
	23/11/2015	01Lag03						
WHO Health 2011								
Water Framework Directive NI (2015) Rivers freshwater lakes								
UK Drinking Water Standard 2010								
Atkins WSV Commercial					50000			

* Limited data due to very low water levels and very slow recharge
[a] Sum of Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene

Test Locations within or adjacent to Site C